



WORLDWIDE PRODUCT SPECIFICATIONS

April 1, 2010



10001004 QM08



TASK FORCE TIPS, INC

ISO 9001:2008

www.tft.com
intsales@tft.com

For excellent quality fire fighting equipment, visit www.tft.com and call your local distributor for a demonstration. Equipment, literature and digital data can be obtained by contacting your trained TFT distributor.



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2010**



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Customer Technical Service: sts@tft.com
Customer Sales: sales@tft.com
International Sales: intsales@tft.com

www.tft.com

24-Hour Turnaround Factory Service
24-Hour Technical Hot-line: 800-348-2686

ORDERING INFORMATION

VERBAL ORDERS: Are accepted; however, any mistakes in ordering will be the responsibility of the customer. E-mail or faxed purchase orders are highly recommended. E-mail to sales@tft.com or fax to 219-464-7155.

TERMS: Net 30 days. Subject to credit approval. Subject to finance charge of one and one half percent (1.5%) per month.

DELIVERY: F.O.B. Factory. Shipments under 150 lb. (per box) will be sent by regular United Parcel Service. Please advise if other methods such as express shipment, or common carrier are required. Large items may be shipped by common carrier. Some orders for larger quantities may be bulk packed.

RETURNED GOODS: To assure proper credit is received, follow these instructions. Visit www.tft.com, click on Customer Service, RGA - Return Goods. Log in or create a new user. Click on Return Good Authorization, complete the form and submit. Once approved, an RGA number will be e-mailed to you with packing instructions.

THREAD ORDERING INFORMATION

All products will be delivered with National Hose threads (NH) unless otherwise specified at the time of order. British Standard Pipe threads (BSP) with 55 degree Whitworth form are produced to ISO 228. Consult factory for further information.

THREAD CODE NOTATION: BSP, BIC, NH: National Hose threads per NFPA 1963 Edition 2009

Special threads, such as NPSH, can be ordered on most products. There is rarely an additional charge for special threads. We maintain a library of hundreds of special thread specifications. Specifications from individual cities with functionally identical threads are grouped together in thread codes. Please consult factory for your thread code. Specifications for threads not in our library will be needed at time of order. Please add 2 - 4 weeks to normal delivery time.

Task Force Tips products are available with many optional inlets. Optional inlet coupling styles are normally kept in stock. Consult factory for your specific requirements.

STATEMENT OF WARRANTY AND REPAIR

Task Force Tips, Inc., 3701 Innovation Way, Valparaiso, Indiana 46383-9327 USA ("TFT") warrants to the original purchaser of its nozzles and other equipment ("equipment"), and to anyone to whom it is transferred, that the equipment shall be free from defects in material and workmanship during the five (5) year period from the date of manufacture.

TFT's obligation under this warranty is specifically limited to replacing or repairing the equipment (or its parts) which are shown by TFT's examination to be in a defective condition attributable to TFT. To qualify for this limited warranty, the claimant must return the equipment to TFT, at 3701 Innovation Way, Valparaiso, Indiana 46383-9327 USA, within a reasonable time after discovery of the defect. TFT will examine the equipment. If TFT determines that there is a defect attributable to it, TFT will correct the problem within a reasonable time. If the equipment is covered by this limited warranty, TFT will assume the expenses of repair.

If any defect attributable to TFT under this limited warranty cannot be reasonably cured by repair or replacement, TFT may elect to refund the purchase price of the equipment, less reasonable depreciation, in complete discharge of its obligations under this limited warranty. If TFT makes this election, claimant shall return the equipment to TFT free and clear of any liens and encumbrances.

This is a limited warranty. The original purchaser of the equipment, any person to whom it is transferred, and any person who is an intended or unintended beneficiary of the equipment, shall not be entitled to recover from TFT any consequential or incidental damages for injury to person and/or property resulting from any defective equipment manufactured or assembled by TFT. It is agreed and understood that the price stated for the equipment is in part consideration for limiting TFT's liability. Some states or countries do not allow the exclusion or limitation of incidental or consequential damages, so the above may not apply to you.

TFT shall have no obligation under this limited warranty if the equipment is, or has been, misused or neglected (including failure to provide reasonable maintenance) or if there have been accidents to the equipment or if it has been repaired or altered by someone else.

THIS IS A LIMITED EXPRESS WARRANTY ONLY. TFT EXPRESSLY DISCLAIMS WITH RESPECT TO THE EQUIPMENT ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. THERE IS NO WARRANTY OF ANY NATURE MADE BY TFT BEYOND THAT STATED IN THE DOCUMENT.

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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NOTES

This image shows a full page of blank white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook or legal stationery. There are no margins, text, or other markings present.

1" (25mm) TWISTER® SERIES

10 & 24 or 10 & 40 GPM (37 & 90 or 37 & 150 l/min)

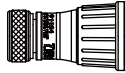
Dual Gallonage

The 1" (25mm) Twister is a selectable, dual gallonage, combination pattern nozzle, available in 3/4" (19mm) or 1" (25mm) threads and is designed for simplicity and durability. The rubber bumper provides a positive grip and protects the front end. Twisting the shaper from the "off" position produces the following settings: low flow straight stream, low flow narrow fog, high flow straight stream, then high flow fog. The Twister, with its optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1), is a rugged, economical nozzle that will accept the FJ-MX-D FOAMJET multi-expansion foam aspirating attachment.

1" 10 and 24 GPM (25mm 37 and 90 l/min)

C1024

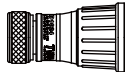
0.6 lb. (0.3kg)
4.00" (10.2cm)



C1024 TWISTER TIP 3/4" GHT (19mm) - Dual gallonage nozzle with two flow settings of 10 and 24 gpm @ 100 psi (37 and 90 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 3/4" GHT (19mm) rigid thread is standard.

D1024

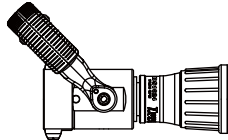
0.6 lb. 0.3kg
4.00" (10.2cm)



D1024 TWISTER TIP 1" NH (25mm) - Dual gallonage nozzle with two flow settings of 10 and 24 gpm @ 100 psi (37 and 90 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 1" NH (25mm) rigid thread is standard.

DS1024

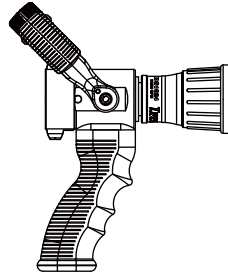
1.5 lb. (0.7kg)
6.25" (15.9cm)



DS1024 TWISTER NOZZLE 1" NH (25mm) - Dual gallonage nozzle with two flow settings of 10 and 24 gpm @ 100 psi (37 and 90 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Rocker lug 1" NH (25mm) swivel is standard.

DS1024P

1.9 lb. (0.9kg)
6.25" (15.9cm)

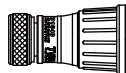


DS1024P TWISTER W/GRIP 1" NH (25mm) - Dual gallonage nozzle with two flow settings of 10 and 24 gpm @ 100 psi (37 and 90 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Pistol grip is mounted below the valve. Rocker lug 1" NH (25mm) swivel is standard.

1" 10 and 40 GPM (25mm 37 and 150 l/min)

D1040

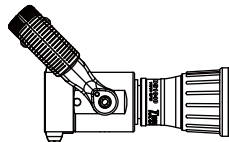
0.6 lb. (0.3kg)
4.00" (10.2cm)



D1040 TWISTER TIP 1" NH (25mm) - Dual gallonage nozzle with two flow settings of 10 and 40 gpm @ 100 psi (37 and 150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 1" NH (25mm) rigid thread is standard.

DS1040

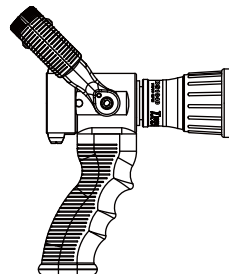
1.5 lb. (0.7kg)
6.25" (15.9cm)



DS1040 TWISTER NOZZLE 1" NH (25mm) - Dual gallonage nozzle with two flow settings of 10 and 40 gpm @ 100 psi (37 and 150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Rocker lug 1" NH (25mm) swivel is standard.



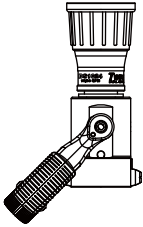
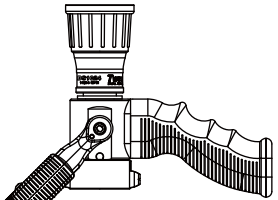
DS1040P

1.9 lb. (0.9kg)
6.25" (15.9cm)


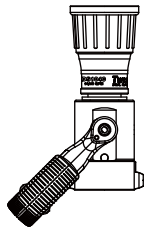
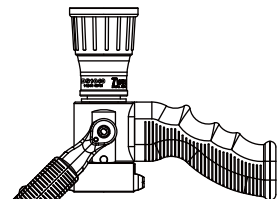


DS1040P TWISTER W/GRIP 1" NH (25mm) - Dual gallonage nozzle with two flow settings of 10 and 40 gpm @ 100 psi (37 and 150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Pistol grip is mounted below the valve. Rocker lug 1" NH (25mm) swivel is standard.

FoamJet Models for 1" Twister Series FJ-MX-D (found on page 41)

Twister Series 1" (25mm) Dual Gallonage Nozzles 10 & 24 GPM (37 & 90 l/min)	 Nozzle Tip Only 3/4" GHT	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi 3/4" GHT Threads	C1024			
100 psi NH Threads		D1024	DS1024	DS1024P

FoamJet Models for 1" Twister Series FJ-MX-D (found on page 41)

Twister Series 1" (25mm) Dual Gallonage Nozzles 10 & 40 GPM (37 & 150 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads	D1040	DS1040	DS1040P

1.5" (38mm) TWISTER® SERIES

20 & 60 or 20 & 95 GPM (75 & 230 or 75 & 360 l/min)

Dual Gallonage

The 1.5" (38mm) Twister is a selectable, dual gallonage, combination pattern nozzle available in 1.5" (38mm) threads and is designed for simplicity and durability. The rubber bumper provides a positive grip and protects the fixed metal fog teeth. Twisting the shaper from the "off" position produces the following settings: low flow straight stream, low flow narrow fog, high flow straight stream, then high flow fog. The Twister, with its optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1), is a rugged, economical nozzle that will accept the FJ-MX-F FOAMJET multi-expansion foam aspirating attachment.

F2060

1.2 lb. (0.6kg)
5.25" (13.3cm)

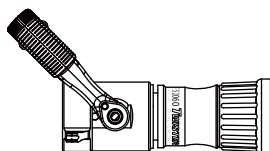


1.5" 20 and 60 GPM (38mm 75 and 230 l/min)

F2060 TWISTER TIP 1.5" NH (38mm) - Dual gallonage nozzle with two flow settings of 20 and 60 gpm @ 100 psi (75 and 230 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 1.5" NH (38mm) rigid thread is standard.

FS2060

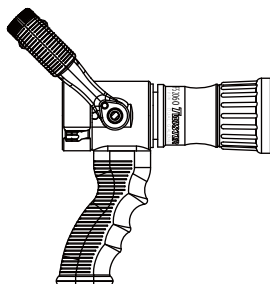
2.4 lb. (1.1kg)
7.37" (18.7cm)



FS2060 TWISTER NOZZLE 1.5" NH (38mm) - Dual gallonage nozzle with two flow settings of 20 and 60 gpm @ 100 psi (75 and 230 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Rocker lug 1.5" NH (38mm) swivel is standard.

FS2060P

2.6 lb. (1.2kg)
7.37" (18.7cm)



FS2060P TWISTER W/GRIP 1.5" NH (38mm) - Dual gallonage nozzle with two flow settings of 20 and 60 gpm @ 100 psi (75 and 230 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Pistol grip is mounted below the valve. Rocker lug 1.5" NH (38mm) swivel is standard.

F2095

1.2 lb. (0.6kg)
5.25" (13.3cm)

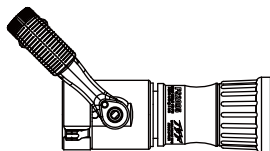


1.5" 20 and 95 GPM (38mm 75 and 360 l/min)

F2095 TWISTER TIP 1.5" NH (38mm) - Dual gallonage nozzle with two flow settings of 20 and 95 gpm @ 100 psi (75 and 360 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 1.5" NH (38mm) rigid thread is standard.

FS2095

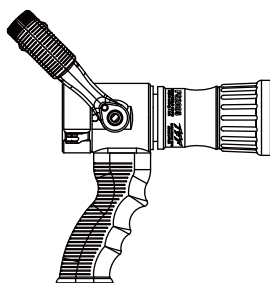
2.4 lb. (1.1kg)
7.37" (18.7cm)



FS2095 TWISTER NOZZLE 1.5" NH (38mm) - Dual gallonage nozzle with two flow settings of 20 and 95 gpm @ 100 psi (75 and 360 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Rocker lug 1.5" NH (38mm) swivel is standard.


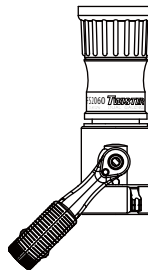
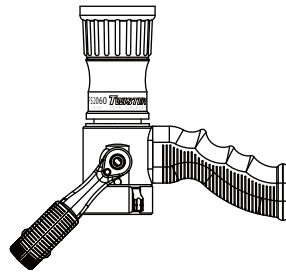
FS2095P

2.6 lb. (1.2kg)
7.37" (18.7cm)


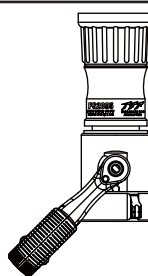
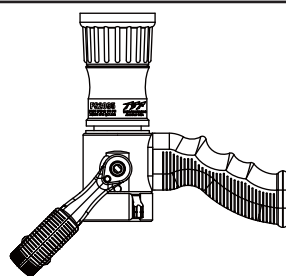


FS2095P TWISTER W/GRIP 1.5" NH (38mm) - Dual gallonage nozzle with two flow settings of 20 and 95 gpm @ 100 psi (75 and 360 l/min @ 7bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Pistol grip is mounted below the valve. Rocker lug 1.5" NH (38mm) swivel is standard.

**FoamJet Models for 1.5" Twister Series
FJ-MX-F (found on page 41)**

Twister Series 1.5" (38mm) Dual Gallonage Nozzles 20 & 60 GPM (75 & 230 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads	F2060	FS2060	FS2060P

**FoamJet Models for 1.5" Twister Series
FJ-MX-F (found of page 41)**

Twister Series 1.5" (38mm) Dual Gallonage Nozzles 20 & 95 GPM (75 & 300 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads	F2095	FS2095	FS2095P

1" (25mm) BUBBLECUP® SERIES

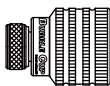
10 & 24 or 10 & 40 GPM (37 & 90 or 37 & 150 l/min) Dual Gallonage Foam Nozzle

The Bubble Cup, 1" (25mm) series, is a unique combination pattern nozzle capable of producing aspirated foam, conventional straight stream and a wide fog pattern. When the outer sleeve is in the retracted position, the nozzle operates as a standard dual gallonage straight stream/combination nozzle. (See Twister series.) To use the aspirating feature of the nozzle, the nozzle operator slides the outer sleeve forward, and by adjusting the pattern, has control of reach and aspiration. If an immediate wide fog pattern is needed, the sleeve can be retracted instantly to its regular position. The Bubble Cup, with its optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1), is a versatile nozzle with an extra measure of versatility not found in any other aspirating foam nozzle. (All nozzles shown retracted. Retracted and Extended lengths are listed.)

1" 10 and 24 GPM (25mm 37 and 90 l/min)

D1024BC

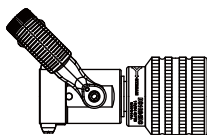
0.9 lb. (0.4kg)
4.00" - 6.00"
(10.2-15.2cm)



D1024BC BUBBLE CUP TIP 1" NH (25mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 10 and 24 gpm @ 100 psi (37 and 90 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 1" NH (25mm) rigid thread is standard.

DS1024BC

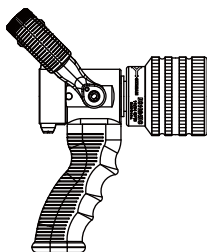
1.8 lb. (0.8kg)
6.37" - 8.37"
16.2-21.3cm



DS1024BC BUBBLE CUP NOZZLE 1" NH (25mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 10 and 24 gpm @ 100 psi (37 and 90 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Rocker lug 1" NH (25mm) swivel is standard.

DS1024BCP

2.0 lb. (0.9kg)
6.37" - 8.37"
(16.2-21.3cm)

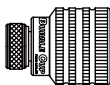


DS1024BCP BUBBLE CUP W/GRIP 1" NH (25mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 10 and 24 gpm @ 100 psi (37 and 90 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Pistol grip is mounted below the valve. Rocker lug 1" NH (25mm) swivel is standard.

1" 10 and 40 GPM (25mm 38 and 150 l/min)

D1040BC

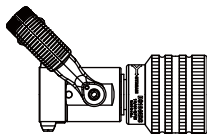
0.9 lb. (0.4kg)
4.00" - 6.00"
(10.2-15.2cm)



D1040BC BUBBLE CUP TIP 1" NH (25mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 10 and 40 gpm @ 100 psi (37 and 150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 1" NH (25mm) rigid thread is standard.

DS1040BC

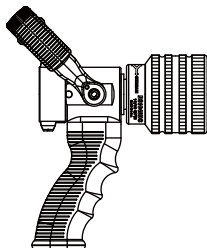
1.8 lb. (0.8kg)
6.37" - 8.37"
16.2-21.3cm




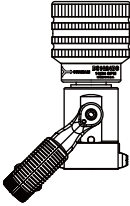
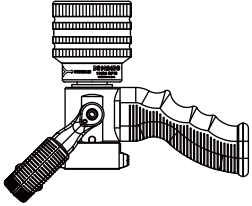
DS1040BC BUBBLE CUP NOZZLE 1" NH (25mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 10 and 40 gpm @ 100 psi (37 and 150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Rocker lug 1" NH (25mm) swivel is standard.


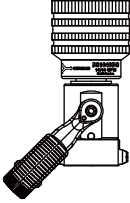
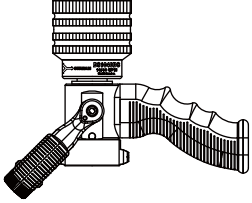
DS1040BCP

2.0 lb. (0.9kg)
6.37" - 8.37"
(16.2-21.3cm)



DS1040BCP BUBBLE CUP W/GRIP 1" NH (25mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 10 and 40 gpm @ 100 psi (37 and 150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Pistol grip is mounted below the valve. Rocker lug 1" NH (25mm) swivel is standard.

Bubblecup Series 1" (25mm) Dual Gallonage Foam Nozzles 10 & 24 GPM (37 & 90 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads	D1024BC	DS1024BC	DS1024BCP

Bubblecup Series 1" (25mm) Dual Gallonage Foam Nozzles 10 & 40 GPM (37 & 150 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads	D1040BC	DS1040BC	DS1040BCP

1.5" (38mm) BUBBLECUP® SERIES

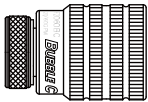
20 & 60 or 20 & 95 or 95 GPM
(75 & 230 or 75 & 360 or 360 l/min)

Single or Dual Gallonage Foam Nozzle

The Bubble Cup, 1-1/2" (38mm) series, is a unique combination pattern nozzle capable of producing aspirated foam, conventional straight stream and a wide fog pattern. When the outer sleeve is in the retracted position, the nozzle operates as a standard dual gallonage straight stream/combination nozzle. (See Twister series.) To use the aspirating feature of the nozzle, the nozzle operator slides the outer sleeve forward, and by adjusting the pattern, has control of reach and aspiration. If an immediate wide fog pattern is needed, the sleeve can be retracted instantly to its regular position. The Bubble Cup, with its optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1), is a unique nozzle with an extra measure of versatility not found in any other aspirating foam nozzle. (All nozzles shown retracted. Retracted and Extended lengths are listed.)

F2060BC

1.7 lb. (0.7kg)
5.00" - 7.50"
(12.7-19.1cm)

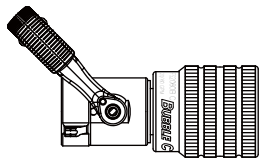


1.5" 20 and 60 GPM (38mm 75 and 230 l/min)

F2060BC BUBBLE CUP TIP 1.5" NH (38mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 20 and 60 gpm @ 100 psi (75 and 230 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 1.5" NH (38mm) rigid thread is standard.

FS2060BC

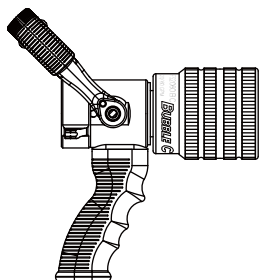
3.0 lb. (1.3kg)
7.25" - 9.75"
(18.4-24.8cm)



FS2060BC BUBBLE CUP NOZZLE 1.5" NH (38mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 20 and 60 gpm @ 100 psi (75 and 230 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Rocker lug 1.5" NH (38mm) swivel is standard.

FS2060BCP

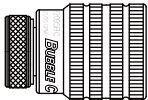
3.2 lb. (1.5kg)
7.25" - 9.75"
(18.4-24.8cm)



FS2060BCP BUBBLE CUP W/GRIP 1.5" NH (38mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 20 and 60 gpm @ 100 psi (75 and 230 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Pistol grip is mounted below the valve. Rocker lug 1.5" NH (38mm) swivel is standard.

F2095BC F95BC

1.7 lb. (0.7kg)
5.00" - 7.50"
(12.7-19.1cm)

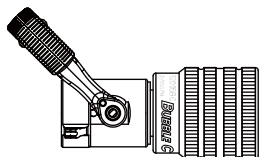


F2095BC BUBBLE CUP TIP 1.5" NH (38mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 20 and 95 gpm @ 100 psi (75 and 360 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. This tip only design has a twist "off" position for break-and-extend operations. 1.5" NH (38mm) rigid thread is standard.

F95BC BUBBLE CUP TIP 1.5" NH (38mm) - Same features as above with single flow setting of 95 gpm @ 100 psi (360 l/min @ 7 bar).

FS2095BC FS95BC

3.0 lb. (1.3kg)
7.25" - 9.75"
(18.4-24.8cm)

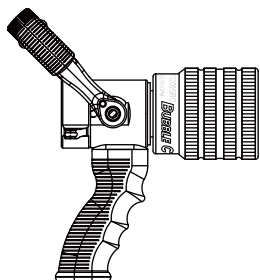


FS2095BC BUBBLE CUP NOZZLE 1.5" NH (38mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 20 and 95 gpm @ 100 psi (75 and 360 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Rocker lug 1.5" NH (38mm) swivel is standard.

FS95BC BUBBLE CUP NOZZLE 1.5" NH (38mm) - Same features as above with single flow setting of 95 gpm @ 100 psi (360 l/min @ 7 bar)

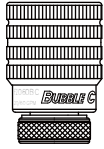
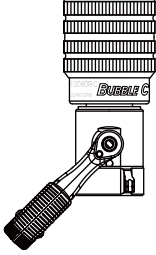
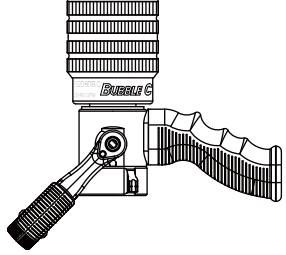
FS2095BCP FS95BCP

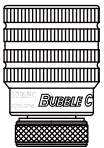
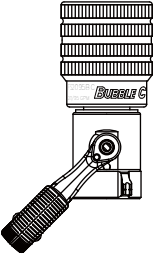
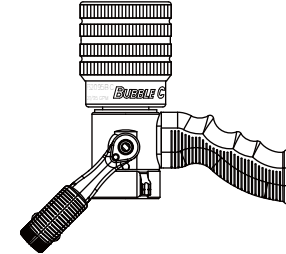
3.2 lb. (1.5kg)
7.25" - 9.75"
(18.4-24.8cm)



FS2095BCP BUBBLE CUP W/GRIP 1.5" NH (38mm) - Dual gallonage Bubble Cup nozzle with two flow settings of 20 and 95 gpm @ 100 psi (75 and 360 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat, stainless steel shut-off ball and a twist "off" position for positive shut off. Pistol grip is mounted below the valve. Rocker lug 1.5" NH (38mm) swivel is standard.

FS95BCP BUBBLE CUP W/GRIP 1.5" NH (38mm) - Same features as above with single flow setting of 95 gpm @ 100 psi (360 l/min @ 7 bar).

Bubblecup Series 1.5" (38mm) Dual Gallonage Foam Nozzles 20 & 60 GPM (75 & 230 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads	F2060BC	FS2060BC	FS2060BCP

Bubblecup Series 1.5" (38mm) Dual Gallonage Foam Nozzles 20 & 95 GPM (75 & 360 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads	F2095BC	FS2095BC	FS2095BCP

Single Gallonage 1.5" (38mm) Bubblecup Series Foam Nozzles 95 gpm (360 l/min)	Nozzle Tip Only	Nozzle w/Shutoff	Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads	F95BC	FS95BC	FS95BCP

1.5" (38mm) QUADRACUP® SERIES

30, 60, 95 & 125 GPM (110, 230, 360 & 470 l/min)

Selectable Gallonage

The QuadraCup is a rugged and dependable selectable gallonage nozzle with a retractable foam aspiration sleeve. When the outer sleeve is in the retracted position, the nozzle operates the same as the TFT QuadraFog. Flow can be set to any one of four flow settings, or to a flush mode. The front end can be rotated from straight stream through wide fog patterns. Uniquely cut fixed metal fog teeth produce a wide range of fog patterns.

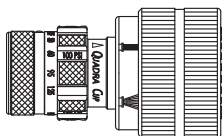
To use the aspirating feature of the nozzle, the nozzle operator slides the outer sleeve forward, and by adjusting the pattern, has control of reach and aspiration. If an immediate wide fog pattern is needed, the sleeve can be retracted instantly to its regular position.

Available in either tip-only configuration or with a stainless ball shutoff, the QuadraCup is also available with optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1). Metric calibrations available: 110-230-360-470 l/min @ 7 bar - consult factory for model numbers.

Model# Suffix: L = Low Pressure 75 psi

FQ125BC FQ125BCL

1.7 lb. (0.7kg)
5.00" - 7.25"
(12.7-19.1cm)

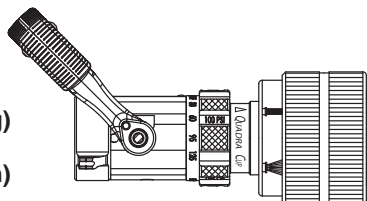


FQ125BC QUADRACUP TIP 1.5" NH (38mm) - Selectable gallonage nozzle with four flow settings of 30, 60, 95, and 125 gpm @ 100 psi (110, 230, 360 and 470 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. This tip-only design has an "off" position for break-and-extend operations. 1.5" NH (38mm) rigid thread is standard.

FQ125BCL LOW PRESSURE VERSION - Same as FQ125BC but operates at a lower pressure 75 psi (5bar).

FQS125BC FQS125BCL

3.0 lb. (1.3kg)
7.25" - 9.75"
(18.4-24.8cm)

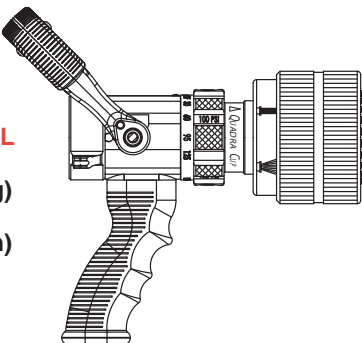


FQS125BC QUADRACUP NOZZLE 1.5" NH (38mm) - Selectable gallonage nozzle with four flow settings of 30, 60, 95, and 125 gpm @ 100 psi (110, 230, 360 and 470 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Rocker lug 1.5" NH (38mm) swivel is standard.

FQS125BCL LOW PRESSURE VERSION - Same as FQS125BC but operates at a lower pressure 75 psi (5bar).


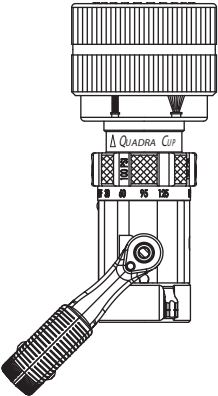
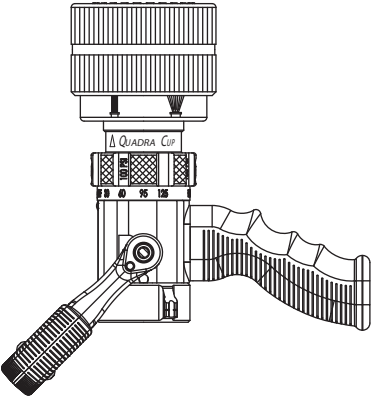
FQS125BCP FQS125BCPL

3.2 lb. (1.5kg)
7.25" - 9.75"
(18.4-24.8cm)



FQS125BCP QUADRACUP W/GRIP 1.5" NH (38mm) - Selectable gallonage nozzle with four flow settings of 30, 60, 95, and 125 gpm @ 100 psi (110, 230, 360 and 470 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Rocker lug 1.5" NH (38mm) swivel is standard.

FQS125BCPL LOW PRESSURE VERSION - Same as FQS125BCP but operates at a lower pressure 75 psi (5bar).

<p>QuadraCup Series</p> <p>Selectable Gallonage 1.5" (38mm) Foam Nozzles 30, 60, 95 & 125 GPM (110, 230, 360 & 470 l/min)</p>	 <p>Nozzle Tip Only</p>	 <p>Nozzle w/Shutoff</p>	 <p>Nozzle w/Shutoff & Pistol Grip</p>
<p>100 psi NH Threads</p>	<p>FQ125BC</p>	<p>FQS125BC</p>	<p>FQS125BCP</p>
<p>75 psi NH Threads</p>	<p>FQ125BCL</p>	<p>FQS125BCL</p>	<p>FQS125BCPL</p>

1" (25mm) QUADRAFOG® SERIES

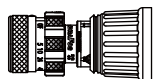
5 - 40 GPM (20 - 150 l/min)

Selectable Gallonage

The 5-40 gpm QuadraFog is an excellent choice for any 1" hose line. With its optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1)), the compact QuadraFog is an economical and lightweight, selectable gallonage, combination pattern nozzle. The uniquely cut fixed metal fog teeth produce a wide range of patterns from straight stream to narrow fog to extremely wide fog. This series accepts either the FJ-DQ low-expansion or the FJ-MX-DQ FOAMJET multi-expansion aspirating attachments. Metric calibrations available: 20-40-100-150 l/min @ 7 bar – consult factory for model numbers.

DQ40

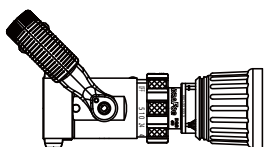
1.3 lb. (0.6kg)
5.00" (12.7cm)



DQ40 QUADRAFOG TIP 1" NH (25mm) - Selectable gallonage nozzle with four flow settings of 5, 10, 24, and 40 gpm @ 100 psi (20-40-100-150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. This tip-only design has an "off" position for break-and-extend operations. 1" NH rigid thread is standard.

DQS40

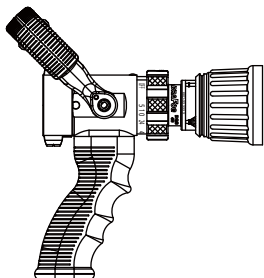
2.0 lb. (0.9kg)
7.25" (18.4cm)



DQS40 QUADRAFOG NOZZLE 1" NH (25mm) - Selectable gallonage nozzle with four flow settings of 5, 10, 24, and 40 gpm @ 100 psi (20-40-100-150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Rocker lug 1" NH swivel is standard.

DQS40P

2.3 lb. (1.0kg)
7.25" (18.4cm)



DQS40P QUADRAFOG W/GRIP 1" NH (25mm) - Selectable gallonage nozzle with four flow settings of 5, 10, 24, and 40 gpm @ 100 psi (20-40-100-150 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Rocker lug 1" NH swivel is standard.

1.5" (38mm) QUADRAFOG® SERIES

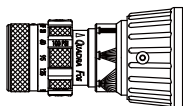
30 - 125 GPM (110 - 470 l/min)

Selectable Gallonage

The 30-125 gpm QuadraFog is designed for 1-1/2" hose lines. The compact QuadraFog is a rugged and dependable, NFPA compliant, selectable gallonage nozzle. Available in either tip-only configuration, or with a stainless ball shutoff, the QuadraFog is also available with optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1)). All 1-1/2" QuadraFogs accept either the FJ-LX-FQ FOAMJET low-expansion or the FJ-MX-FQ FOAMJET multi-expansion foam aspiration attachments and come with your choice of Fixed (F) or stainless steel Spinning (S) fog teeth. Metric calibrations available: 110-230-360-470 l/min @ 7bar – consult factory for model numbers.

Model# Suffix: F = Fixed Teeth S = Spinning Teeth L = Low Pressure

FQ125F
FQ125S
FQ125LF
FQ125LS



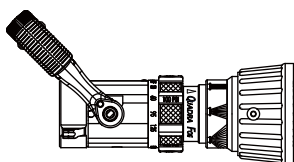
2.4 lb. (1.1kg)
6.87" (17.5cm)



FQ125 QUADRAFOG TIP 1.5" NH (38mm) - Selectable gallonage nozzle with four flow settings of 30, 60, 95, and 125 gpm @ 100 psi (110-230-360-470 l/min @ 7bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. This tip-only design has an "off" position for break-and-extend operations. 1.5" NH rigid thread is standard.

FQ125L - LOW PRESSURE VERSION. Same as FQ125 above, but operates at a lower pressure of 75 psi (5 bar).

FQS125F
FQS125S
FQS125LF
FQS125LS



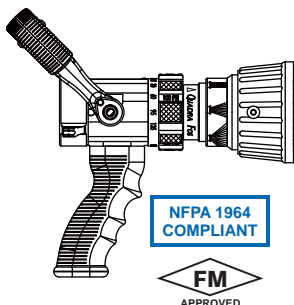
3.4 lb. (1.5kg)
8.37" (21.3cm)



FQS125 QUADRAFOG NOZZLE 1.5" NH (38mm) - Selectable gallonage nozzle with four flow settings of 30, 60, 95, and 125 gpm @ 100 psi (110-230-360-470 l/min @ 7bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Rocker lug 1.5" NH swivel is standard.

FQS125L - LOW PRESSURE VERSION. Same as FQS125 above, but operates at a lower pressure of 75 psi (5 bar).

FQS125PF
FQS125PS
FQS125LPF
FQS125LPS




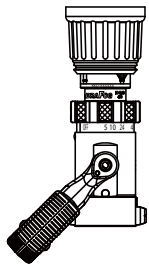
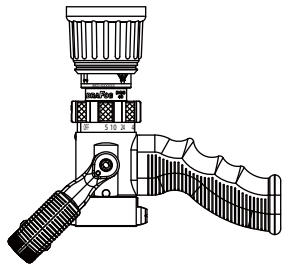
3.6 lb. (1.6kg)
8.37" (21.3cm)




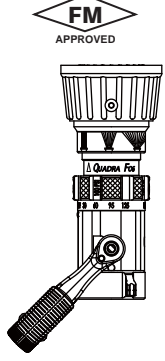
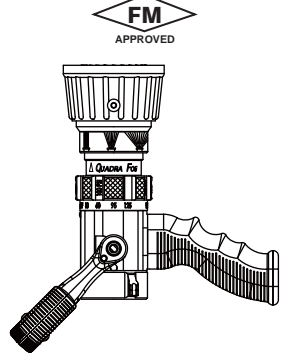
FQS125P QUADRAFOG W/GRIP 1.5" NH (38mm) - Selectable gallonage nozzle with four flow settings of 30, 60, 95, and 125 gpm @ 100 psi (110-230-360-470 l/min @ 7bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Rocker lug 1.5" NH swivel is standard.

FQS125LP - LOW PRESSURE VERSION. Same as FQS125P above, but operates at a lower pressure of 75 psi (5 bar).

**FoamJet Models for 1" QuadraFog Series
FJ-DQ & FJ-MX-DQ
(found on pages 40 & 41)**

QuadraFog Series Selectable Gallonage 1" (25mm) Nozzles 5, 10, 24 & 40 GPM (20, 40, 100 & 150 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads Fixed Teeth	DQ40	DQS40	DQS40P

**FoamJet Models for 1.5" QuadraFog Series
FJ-LX-FQ, FJ-MX-FQ
(found on pages 40 & 41)**

QuadraFog Series Selectable Gallonage 1.5" (38mm) Nozzles 30, 60, 95 & 125 GPM (110, 230, 360 & 470 l/min)	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads Fixed Teeth	FQ125F	FQS125F	FQS125PF
75 psi NH Threads Fixed Teeth	FQ125LF	FQS125LF	FQS125LPF
100 psi NH Threads Spinning Teeth	FQ125S	FQS125S	FQS125PS
75 psi NH Threads Spinning Teeth	FQ125LS	FQS125LS	FQS125LPS

1.5" (38mm) THUNDERFOG® SERIES

30 - 200 or 95 - 250 GPM (110 - 750 or 360 - 950 l/min)

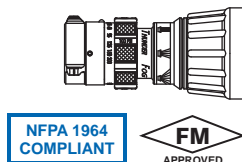
Selectable Gallonage

The Thunderfog is available in two basic series: the 200 series, with a selectable flow range of 30-200 gpm (110-750 l/min), and the 250 series, with a selectable flow range of 95-250 gpm (360-950 l/min). The 200 series is an excellent choice for 1.5" or 1.75" hose lines, and for higher flows, the 250 series will work with 1.5" through 2.5" lines. All Thunderfogs are NFPA compliant, and are available in tip only configuration, or with stainless steel ball shutoff, and optional colored pistol grips and handle covers (NFPA 1901 (A.16.9.1)). All Thunderfogs accept the FJ-MX-FT FOAMJET multi-expansion foam aspirating attachment, and are available with your choice of Fixed (F) or stainless steel Spinning (S) fog teeth. Metric calibrations available: 110-230-360-470-570-750 l/min @ 7 bar or 360-470-570-750-950 l/min @ 7 bar – consult factory for model numbers.

Model# Suffix: F = Fixed Teeth S = Spinning Teeth L = Low Pressure

FT200F
FT200S
FT200LF
FT200LS

3.7 lb. (1.7kg)
8.25" (21cm)



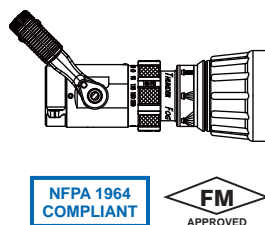
1.5" 30-200 GPM SERIES (110-750 l/min)

FT200 THUNDERFOG TIP 1.5" NH (38mm) - Selectable gallonage nozzle with six flow settings of 30, 60, 95, 125, 150, and 200 gpm @ 100 psi (110-230-360-470-570-750 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. This tip-only design has an "off" position for break-and-extend operations. 1.5" NH rigid rocker lug coupling is standard.

FT200L - LOW PRESSURE VERSION. Same as FT200 above, but operates at a lower pressure of 75 psi (5 bar).

FTS200F
FTS200S
FTS200LF
FTS200LS

5.6 lb. (2.5kg)
10.18" (25.9cm)

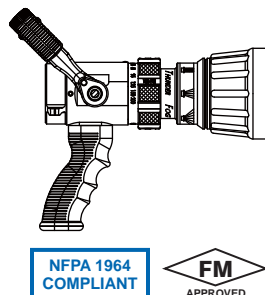


FTS200 THUNDERFOG NOZZLE 1.5" NH (38mm) - Selectable gallonage nozzle with six flow settings of 30, 60, 95, 125, 150, and 200 gpm @ 100 psi (110-230-360-470-570-750 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Rocker lug 1.5" NH full-time swivel coupling is standard.

FTS200L - LOW PRESSURE VERSION. Same as FTS200 above, but operates at a lower pressure of 75 psi (5 bar).

FTS200PF
FTS200PS
FTS200LPF
FTS200LPS

5.8 lb. (2.5kg)
10.18" (25.9cm)

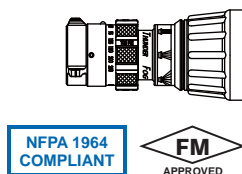


FTS200P THUNDERFOG W/GRIP 1.5" NH (38mm) - Selectable gallonage nozzle with six flow settings of 30, 60, 95, 125, 150, and 200 gpm @ 100 psi (110-230-360-470-570-750 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Rocker lug 1.5" NH full-time swivel coupling is standard.

FTS200LP - LOW PRESSURE VERSION. Same as FTS200P above, but operates at a lower pressure of 75 psi (5 bar).

FT250F
FT250S

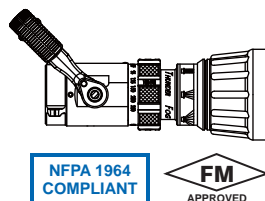
3.7 lb. (1.7kg)
8.25" (21cm)



FT250 THUNDERFOG TIP 1.5" NH (38mm) - Selectable gallonage nozzle with five flow settings of 95, 125, 150, 200, and 250 gpm @ 100 psi (360-470-570-750-950 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. This tip-only design has an "off" position for break-and-extend operations. 1.5" NH rigid rocker lug coupling is standard.

FTS250F
FTS250S

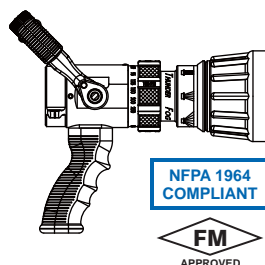
5.6 lb. (2.5kg)
10.18" (25.9cm)



FTS250 THUNDERFOG NOZZLE 1.5" NH (38mm) - Selectable gallonage nozzle with five flow settings of 95, 125, 150, 200, and 250 gpm @ 100 psi (360-470-570-750-950 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Rocker lug 1.5" NH full-time swivel coupling is standard.




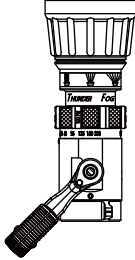

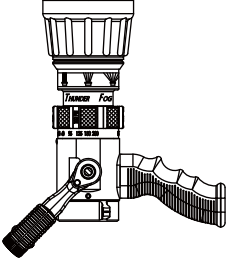
FTS250PF
FTS250PS

5.8 lb. (2.5kg)
10.18" (25.9cm)




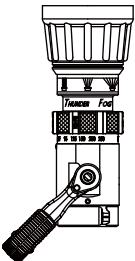

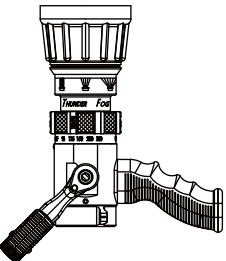


FTS250P THUNDERFOG W/GRIP 1.5" NH (38mm) - Selectable gallonage nozzle with five flow settings of 95, 125, 150, 200, and 250 gpm @ 100 psi (360-470-570-750-950 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Rocker lug 1.5" NH full-time swivel coupling is standard.

FoamJet Models for ThunderFog Series FJ-MX-FT (found on page 41)

ThunderFog Series Selectable Gallonage 1.5" (38mm) Nozzles 30, 60, 95, 125, 150 & 200 GPM (110, 230, 360, 470, 570 & 750 l/min) <div>NFPA 1964 COMPLIANT</div>	  Nozzle Tip Only	  Nozzle w/Shutoff	  Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads Fixed Teeth	FT200F	FTS200F	FTS200PF
75 psi NH Threads Fixed Teeth	FT200LF	FTS200LF	FTS200LPF
100 psi NH Threads Spinning Teeth	FT200S	FTS200S	FTS200PS
75 psi NH Threads Spinning Teeth	FT200LS	FTS200LS	FTS200LPS

FoamJet Models for ThunderFog Series FJ-MX-FT (found on page 41)

ThunderFog Series Selectable Gallonage 1.5" (38mm) Nozzles 95, 125, 150, 200 & 250 GPM (360, 470, 570, 750 & 950 l/min) <div>NFPA 1964 COMPLIANT</div>	  Nozzle Tip Only	  Nozzle w/Shutoff	  Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads Fixed Teeth	FT250F	FTS250F	FTS250PF
100 psi NH Threads Spinning Teeth	FT250S	FTS250S	FTS250PS

2.5" (65mm) THUNDERFOG® SERIES

95 - 250 GPM (360 - 950 l/min)

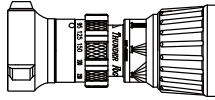
Selectable Gallonage

The Thunderfog is available with a selectable flow range of 95-250 gpm. The 250 series will work with 2.5" or 3" hose lines. All Thunderfogs are NFPA compliant, and are available in tip only configuration, or with stainless steel shut-off ball, and optional colored pistol grips and handle covers (NFPA 1901 (A.16.9.1)). All Thunderfogs accept the FJ-MX-FT FOAMJET multi-expansion foam aspirating attachment, and are available with your choice of uniquely cut Fixed (F) or stainless steel Spinning (S) fog teeth. Metric calibrations available: 360-470-570-750-950 l/min @ 7 bar – consult factory for model numbers.

Model# Suffix: F = Fixed Teeth S = Spinning Teeth

**JT250F
JT250S**

**4.7 lb (2.1kg)
9.37" (23.8cm)**

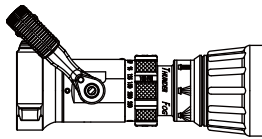


2.5" 95-250 GPM SERIES (360-950 l/min)

JT250 THUNDERFOG TIP 2.5" NH (64mm) - Selectable gallonage nozzle with five flow settings of 95, 125, 150, 200, and 250 gpm @ 100 psi (360-470-570-750-950 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. This tip only design has an "off" position for break-and-extend operations. 2.5" NH rigid rocker lug coupling is standard.

**JTS250F
JTS250S**

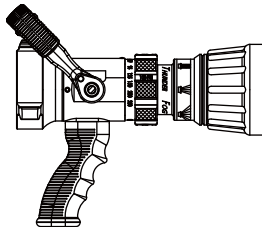
**6.0 lb (2.7kg)
11.40" (28.9cm)**



JTS250 THUNDERFOG NOZZLE 2.5" NH (64mm) - Selectable gallonage nozzle with five flow settings of 95, 125, 150, 200, and 250 gpm @ 100 psi (360-470-570-750-950 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. 2.5" NH swivel rocker lug coupling is standard.

**JTS250PF
JTS250PS**

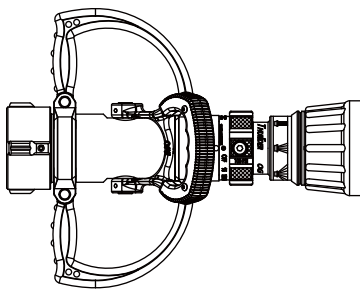
**6.3 lb (2.9kg)
11.40" (28.9cm)**



JTS250P THUNDERFOG W/GRIP 2.5" NH (64mm) - Selectable gallonage nozzle with five flow settings of 95, 125, 150, 200, and 250 gpm @ 100 psi (360-470-570-750-950 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. 2.5" NH swivel rocker lug coupling is standard.

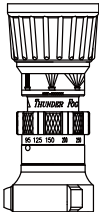
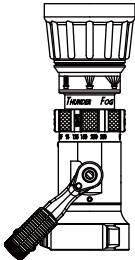
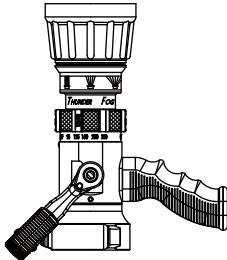
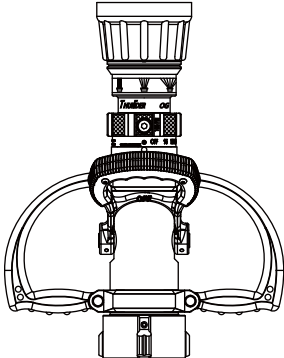
**JTS250PPF
JTS250PPS**

**9.2 lb (4.2kg)
15.40" (39.1cm)**



JTS250PP THUNDERFOG PLAYPIPE 2.5" NH (64mm) - Smallest, most compact nozzle/playpipe combination available for use on 2.5" or 3" lines. Selectable gallonage nozzle with five flow settings of 95, 125, 150, 200, and 250 gpm @ 100 psi (360-470-570-750-950 l/min @ 7 bar). All lightweight materials, hardcoat anodized aluminum. Flush without shutting down. Quick-change rear valve seat and stainless steel shut-off ball. Lightweight hardcoat anodized aluminum alloy for maximum corrosion and wear. Nozzle is attached to valve and is not removable. Rubber coated playpipe handles are designed to reduce fatigue. 2.5" NH full-time swivel rocker lug coupling is standard.

FoamJet Models for ThunderFog Series FJ-MX-FT (found on page 41)

<div>ThunderFog Series</div> <div>Selectable Gallonage 2.5" (65mm) Nozzles With Fixed or Spinning Teeth 95, 125, 150, 200 & 250 GPM (360, 470, 570, 750 & 950 l/min)</div> <div>NFPA 1964 COMPLIANT</div>	<div><div>FM APPROVED</div></div> <div>Nozzle Tip Only</div>	<div><div>FM APPROVED</div></div> <div>Nozzle w/Shutoff</div>	<div><div>FM APPROVED</div></div> <div>Nozzle w/Shutoff & Pistol Grip</div>	<div><div>FM APPROVED</div></div> <div>Nozzle w/Shutoff & Playpipe Grip</div>
100 psi NH Threads Fixed Teeth	JT250F	JTS250F	JTS250PF	JTS250PPF
100 psi NH Threads Spinning Teeth	JT250S	JTS250S	JTS250PS	JTS250PPS

METRO 1 Series - Fixed gallonage nozzle with 14 flow and pressure choices. Delivered with the 200 gpm @ 75 psi (760 l/min @ 5 bar) calibrated flow disc installed. The Metro 1 features flush without shutting down, your choice of molded rubber bumper with "power fog" teeth or stainless steel spinning teeth, detent flow control, "Gasket Grabber" inlet screen, patented TFT slide valve, and the rugged dependability you have come to expect from Task Force Tips. The Metro 1 models are available in tip-only configuration, or with stainless steel slide valve, and optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1)). The Metro 1 accepts the FJ-HM, FJ-LX-HM low-expansion or FJ-MX-HM multi-expansion foam attachments and is NFPA compliant. All models are available with your choice of fixed rubber teeth or stainless steel spinning (s) fog teeth.

Model# Suffix: S = Spinning Teeth

ME1-TO
ME1-TOS

2.7 lb (1.2kg)
9.00" (22.9cm)

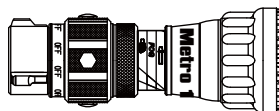


NFPA 1964
COMPLIANT

ME1-TO - METRO 1 TIP 1.5" NH (38mm) -Fixed gallonage tip with 14 flow / pressure choices. Includes flush without shutting down, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off and must be used with a separate valve or valved playpipe. 1.5" NH (38mm) rigid rocker lug coupling is standard.

ME1-STO
ME1-STOS

3.4 lb (1.5kg)
10.00" (25.4cm)

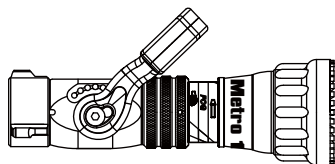


NFPA 1964
COMPLIANT

ME1-STO - METRO 1 TIP/TWIST-OFF 1.5" NH (38mm) - Fixed gallonage nozzle with 14 flow and pressure choices. Includes patented twist slide-type valve for turbulence-free flow control, flush without shutting down, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. May be used with a separate valve or playpipe. Ideal for break-and-extend operations. 1.5" NH (38mm) rigid rocker lug coupling is standard.

ME1-V
ME1-VS

4.5 lb (2.1kg)
11.50" (29.2cm)

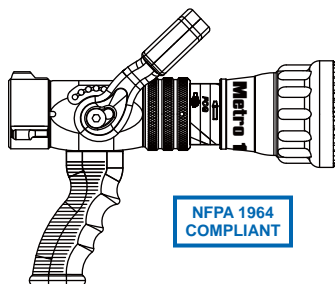


NFPA 1964
COMPLIANT

ME1-V - METRO 1 NOZZLE 1.5" NH (38mm) - Fixed gallonage nozzle with 14 flow and pressure choices. Includes flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. 1.5" NH (38mm) full-time swivel rocker lug coupling is standard.

ME1-VPGI
ME1-VPGIS



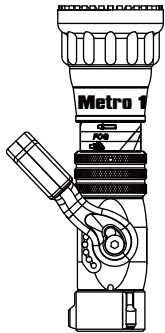
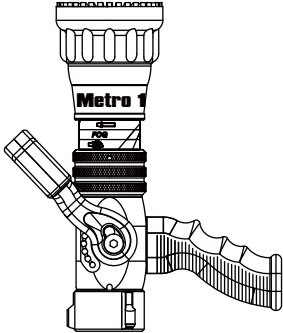
4.9 lb (2.2kg)
11.50" (29.2cm)



NFPA 1964
COMPLIANT

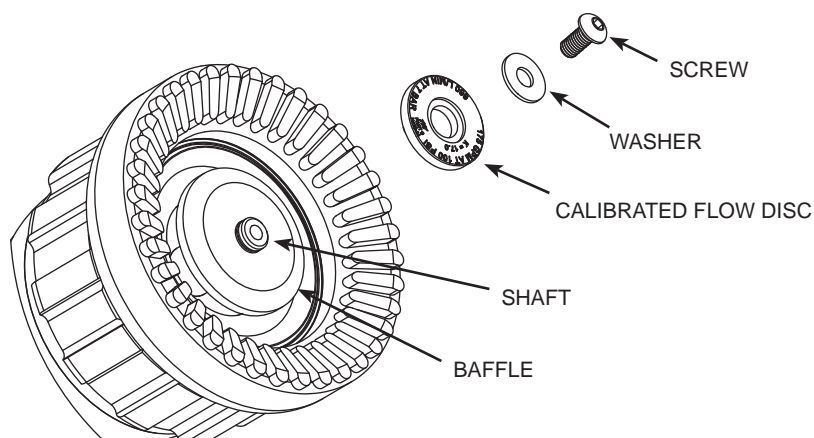
ME1-VPGI - METRO 1 W/GRIP 1.5" NH (38mm) - Fixed gallonage nozzle with 14 flow and pressure choices. Includes flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Pistol grip is mounted below the valve. 1.5" NH (38mm) full-time swivel rocker lug coupling is standard.

**FoamJet Models for METRO 1 Series
FJ-HM, FJ-LX-HM & FJ-MX-HM
(found on pages 40 & 42)**

Metro 1 Series Fixed Gallonage 1.5" (38mm) Nozzles With 14 Flow and Pressure Choices <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 10px auto;"> NFPA 1964 COMPLIANT </div>				
	Nozzle Tip Only	Nozzle Tip Only w/Twist Shutoff	Nozzle w/Shutoff	Nozzle w/Shutoff & Pistol Grip
	ME1-TO	ME1-STO	ME1-V	ME1-VPGI
100 psi NH Threads Fixed Teeth	ME1-TOS	ME1-STOS	ME1-VS	ME1-VPGIS
100 psi NH Threads Spinning Teeth				

The nozzle package includes these calibrated flow discs.						
50 psi 3 bar			150 gpm 565 l/min	125 gpm 475 l/min	95gpm 360 l/min	
75 psi 5 bar	200 gpm 760 l/min	175 gpm 660 l/min	150 gpm 565 l/min	125 gpm 475 l/min		60 gpm 227 l/min
100 psi 7 bar	200 gpm 760 l/min	175 gpm 660 l/min	150 gpm 565 l/min	125 gpm 475 l/min	95 gpm 360 l/min	60 gpm 227 l/min

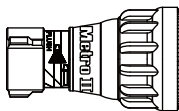
The discs are marked with various flow settings. Change flow disc to the desired setting. The nozzle will flow the indicated amount when the pressure at the nozzle is at the indicated level. Fixed tooth model shown.



METRO 2 Series Fixed gallonage nozzle with 10 flow and pressure choices. Delivered with the 250 gpm @ 50 psi (950 l/min @ 3 bar) calibrated flow disk installed. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. All Metro 2's are available in tip only configuration, or with ball shut-off, and optional colored pistol grips and handle covers (NFPA 1901 (A.16.9.1)). The Metro 2 accepts either the FJ-H low-expansion or FJ-HMX multi-expansion foam attachments.

ME2-TO

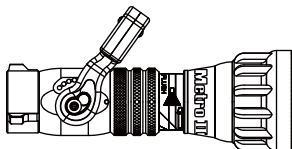
3.8 lb (1.7kg)
7.60" (19.3cm)



ME2-TO - METRO 2 TIP 1.5" NH (38mm) - Fixed gallonage nozzle for use with separate valve or valved playpipe. Fixed flow tip with 10 flow and pressure choices. The METRO 2 includes a pressure-assisted flush without shutting down, molded rubber teeth for full-fill "power fog" pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off and must be used with a separate valve or valved playpipe. 1.5" NH (38mm) rigid rocker lug coupling is standard.

ME2-V

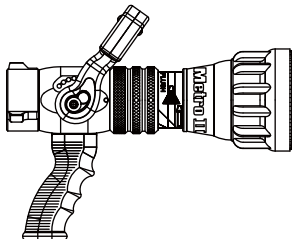
6.3 lb (2.9kg)
12.70" (32.3cm)



ME2-V - METRO 2 NOZZLE 1.5" NH (38mm) - Fixed gallonage nozzle with 10 flow and pressure choices. The METRO 2 includes a pressure-assisted flush without shutting down, ball valve shut-off and molded rubber teeth for full-fill "power fog" pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. 1.5" NH (38mm) full-time swivel rocker lug coupling is standard.

ME2-VPGI

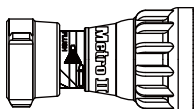
6.6 lb (2.9kg)
12.70" (32.3cm)



ME2-VPGI - METRO 2 W/GRIP 1.5" NH (38mm) - Fixed gallonage nozzle with 10 flow and pressure choices. The METRO 2 includes a pressure-assisted flush without shutting down, ball valve shut-off and molded rubber teeth for full-fill "power fog" pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Pistol grip is mounted below the valve. 1.5" NH (38mm) full-time swivel rocker lug coupling is standard.

ME2-2TO

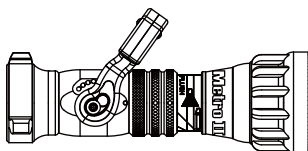
4.2 lb (1.9kg)
8.30" (21.1cm)



ME2-2TO - METRO 2 TIP 2.5" NH (65mm) - Fixed gallonage nozzle for use with separate valve or valved playpipe. Fixed flow tip with 10 flow and pressure choices. The METRO 2 includes a pressure-assisted flush without shutting down, molded rubber teeth for full-fill "power fog" pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off and must be used with a separate valve or valved playpipe. 2.5" NH (65mm) rigid rocker lug coupling is standard.

ME2-2V

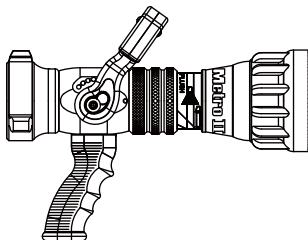
6.8 lb (3.1kg)
13.60" (34.5cm)



ME2-2V - METRO 2 NOZZLE 2.5" NH (65mm) - Fixed gallonage nozzle with 10 flow and pressure choices. The METRO 2 includes a pressure-assisted flush without shutting down, ball valve shut-off and molded rubber teeth for full-fill "power fog" pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. 2.5" NH (65mm) full-time swivel rocker lug coupling is standard.

ME2-2VPGI

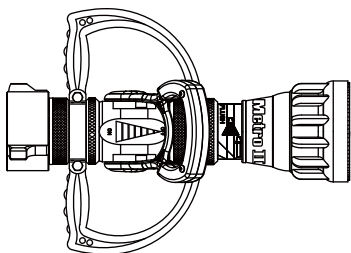
7.0 lb (3.2kg)
13.60" (34.5cm)



ME2-2VPGI - METRO 2 W/GRIP 2.5" NH (65mm) - Fixed gallonage nozzle with 10 flow and pressure choices. The METRO 2 includes a pressure-assisted flush without shutting down, ball valve shut-off and molded rubber teeth for full-fill "power fog" pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Pistol grip is mounted below the valve. 2.5" NH (65mm) full-time swivel rocker lug coupling is standard.

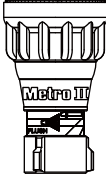
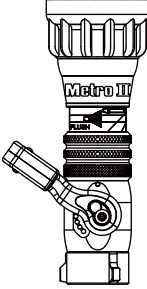
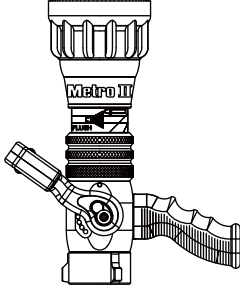
ME2-BLITZ

9.7 lb (4.4kg)
15.50" (39.4cm)



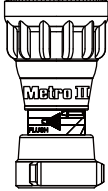
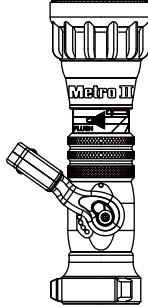
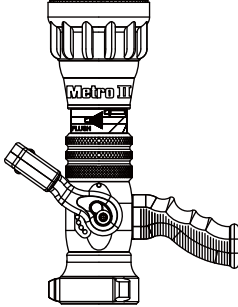
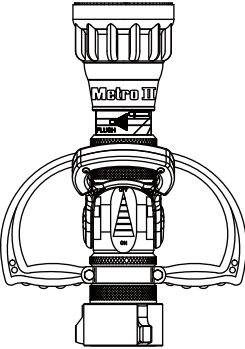
ME2-BLITZ - METRO 2 PLAYPIPE 2.5"NH (65mm) - Fixed gallonage nozzle / playpipe combination with ball valve shut-off. Fixed flow tip with 10 flow and pressure choices. The METRO 2 includes a pressure-assisted flush without shutting down, molded rubber teeth for full-fill "power fog" pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Nozzle is attached to valve and is not removable. Rubber coated handles are designed to reduce fatigue. 2.5" NH (65mm) full-time swivel rocker lug coupling is standard.

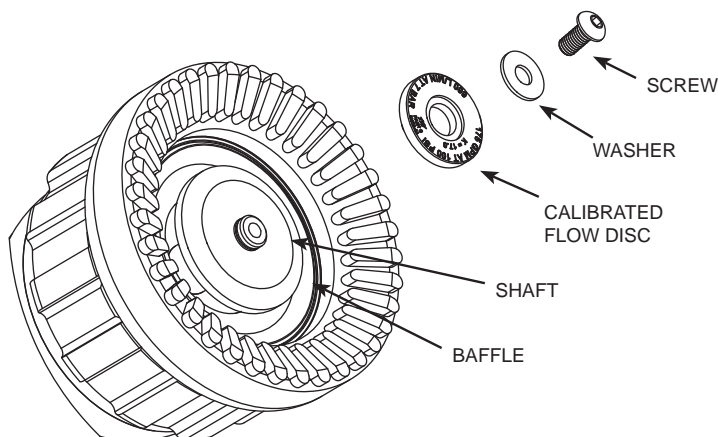
**FoamJet Models for METRO 2 Series
FJ-H & FJ-HMX
(found on pages 40 & 42)**

Metro 2 Series Fixed Gallonage 1.5" (38mm) Nozzles With 10 Flow and Pressure Choices			
100 psi NH Threads Fixed Teeth	ME2-TO	ME2-V	ME2-VPGI

The nozzle package includes these calibrated flow discs.

100 psi 7 bar	75 psi 5 bar	50psi 3 bar
325 gpm 1230 l/min		
250 gpm 950 l/min	250 gpm 950 l/min	250 gpm 950 l/min
	200 gpm 750 l/min	
	185 gpm 700 l/min	185 gpm 700 l/min
175 gpm 660 l/min		
	125 gpm 475 l/min	
95 gpm 360 l/min		

Metro 2 Series Fixed Gallonage 2.5" (65mm) Nozzles With 10 Flow and Pressure Choices				
100 psi NH Threads Fixed Teeth	ME2-2TO	ME2-2V	ME2-2VPGI	ME2-BLITZ



The flow discs are marked with various flow settings. Change flow disc to the desired setting. The nozzle will flow the indicated amount when the pressure at the nozzle is at the indicated level.

1" (25mm) & 1.5" (38mm) ULTIMATIC 125 SERIES

10-125 GPM (40-500 l/min) 10-100 GPM (40-400 l/min) low pressure

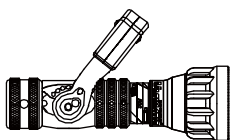
Automatic

The TFT ULTIMATIC 125 has an unprecedented flow range of 10-125 gpm (40-500 l/min). The compact size and reduced weight of this automatic nozzle make it an outstanding performer for 1" (25mm) as well as 1.5" (38mm) hose. The ULTIMATIC 125 features flush without shutting down, molded rubber bumper with "power fog" teeth, detent flow control, "Gasket Grabber" inlet screen, patented TFT slide valve, optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1) and the rugged dependability you have come to expect from Task Force Tips. The ULTIMATIC 125 is available in several configurations for a wide variety of applications. It is adjustable from a straight stream to a dense fog pattern. All ULTIMATIC 125 series of nozzles are suitable for use with foam and accept either the FJ-U FOAMJET low-expansion or the FJ-UMX FOAMJET multi-expansion foam attachments.

This nozzle is our recommendation for high pressure applications, on .75", 1.0" and 1.25" hose, up to 800 psi..

B-BH BL-BH

2.1 lb (1.1kg)
9.00" (22.9cm)

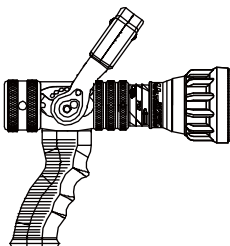


B-BH ULTIMATIC NOZZLE 1" NH (25mm) - Full automatic 100 psi (7 bar) nozzle for use on 3/4" (19mm) or 1" (25mm) hose. Flow range of 10-125 gpm (40-500 l/min). Includes flush without shutting down, six position detent flow control slide valve, "Gasket Grabber" inlet screen, and molded rubber bumper with "power fog" teeth. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. 1" NH (25mm) full-time swivel is standard.

BL-BH ULTIMATIC NOZZLE - LOW PRESSURE VERSION. Same as B-BH, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 10-100 gpm (40-400 l/min).

B-BGH BL-BGH

2.6 lb (1.2kg)
9.00" (22.9cm)

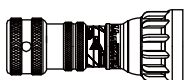


B-BGH ULTIMATIC W/GRIP 1" NH (25mm) - Full automatic 100 psi (7 bar) nozzle for use on 3/4" (19mm) or 1" (25mm) hose. Flow range of 10-125 gpm (40-500 l/min). Includes pistol grip mounted below the valve, flush without shutting down, six position detent flow control slide valve, "Gasket Grabber" inlet screen, and molded rubber bumper with "power fog" teeth. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. 1" NH (25mm) full-time swivel is standard.

BL-BGH ULTIMATIC W/GRIP - LOW PRESSURE VERSION. Same as B-BGH above, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 10-100 gpm (40-400 l/min).

B-TO BL-TO

1.5 lb (0.7kg)
7.20" (18.3cm)

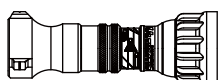


B-TO ULTIMATIC TIP 1.0" NH (25mm) - Full automatic 100 psi (7 bar) nozzle with a flow range of 10-125 gpm (40-500 l/min). Tip does not shut off and must be used with a separate valve or valved playpipe. 1.0" (25mm) rigid knurled coupling is standard.

BL-TO ULTIMATIC TIP - LOW PRESSURE VERSION. Same as B-TO, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 10-100 gpm (40-400 l/min).

BTO-125 BTOL-125

1.8 lb (0.7kg)
8.50" (21.6cm)

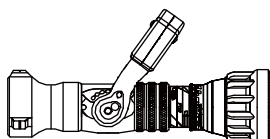


BTO-125 ULTIMATIC TIP 1.5" NH (38mm) - Full automatic 100 psi (7 bar) nozzle with a flow range of 10-125 gpm (40-500 l/min). Tip does not shut off and must be used with a separate valve or valved playpipe. 1.5" (38mm) rigid rocker lug-coupling is standard.

BTOL-125 ULTIMATIC TIP - LOW PRESSURE VERSION. Same as BTO-125, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 10-100 gpm (40-400 l/min).

BH-125 BHL-125

3.0 lb (1.4kg)
10.50" (26.7cm)

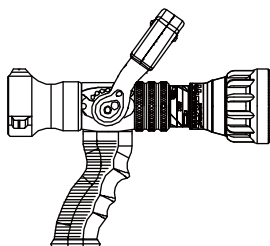


BH-125 ULTIMATIC NOZZLE 1.5" NH (38mm) - Full automatic 100 psi (7 bar) nozzle with 1.5" (38mm) coupling and thread. Flow range of 10-125 gpm (40-500 l/min). Includes flush without shutting down, six position detent flow control slide valve, "Gasket Grabber" inlet screen, and molded rubber bumper with "power fog" teeth. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Rocker lug 1.5" NH (38mm) full-time swivel coupling is standard.

BHL-125 ULTIMATIC NOZZLE LOW PRESSURE VERSION WITH 1.5" (38mm) COUPLING. Same as BH-125 above, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 10-100 gpm (40-400 l/min).

BGH-125 BGHL-125



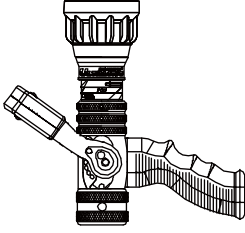
3.2 lb (1.5kg)
10.50" (26.7cm)





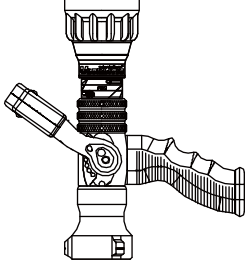
BGH-125 ULTIMATIC W/GRIP 1.5" NH (38mm) - Full automatic 100 psi (7 bar) nozzle with 1.5" (38mm) coupling and thread. Flow range of 10-125 gpm (40-500 l/min). Includes pistol grip mounted below the valve, flush without shutting down, six position detent flow control slide valve, "Gasket Grabber" inlet screen, and molded rubber bumper with "power fog" teeth. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Rocker lug 1.5" NH (38mm) full-time swivel coupling is standard.

BGHL-125 ULTIMATIC W/GRIP - LOW PRESSURE VERSION WITH 1.5" (38mm) COUPLING. Same as BGH-125 above, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 10-100 gpm (40-400 l/min).

FoamJet Models for Ultimatic 125 Series FJ-U & FJ-UMX (found on pages 40 & 42)

Ultimatic 125 Series 1" (25mm) Automatic Pressure Nozzles 10-125 GPM (40 - 500 l/min) or 10-100 GPM (40-400 l/min) low pressure	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads Fixed Teeth	B-TO	B-BH	B-BGH
75 psi NH Threads Fixed Teeth	BL-TO	BL-BH	BL-BGH

FoamJet Models for Ultimatic 125 Series FJ-U & FJ-UMX (found on pages 40 & 42)

Ultimatic 125 Series 1.5" (38mm) Automatic Pressure Nozzles 10-125 GPM (40 - 500 l/min) or 10-100 GPM (40-400 l/min) low pressure	 Nozzle Tip Only	 Nozzle w/Shutoff	 Nozzle w/Shutoff & Pistol Grip
100 psi NH Threads Fixed Teeth	BTO-125	BH-125	BGH-125
75 psi NH Threads Fixed Teeth	BTOL-125	BHL-125	BGHL-125

1.5" (38mm) MID-MATIC SERIES

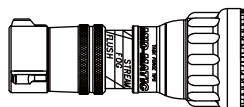
70 - 200 GPM (260 - 760 l/min)

Mid-Range Automatic

With a wide flow range of 70-200 gpm (260-760 l/min), the Mid-Matic series can be used on 1.5" (38mm), 1.75" (45mm) and 2" (52mm) hose. The Mid-Matic features flush without shutting down, your choice of molded rubber bumper with "power fog" teeth or stainless steel spinning teeth, detent flow control, "Gasket Grabber" inlet screen, patented TFT slide valve, and the rugged dependability you have come to expect from Task Force Tips. Mid-Matic models are fully NFPA compliant, and are available in tip-only configuration, or with stainless steel slide valve, and optional colored pistol grip and handle covers (NFPA 1901 (A16.9.1)). All Mid-Matic nozzles accept the FJ-LX-HM or FJ-HM low-expansion or the FJ-MX-HM multi-expansion foam attachments. All models are available with fixed rubber teeth or stainless steel spinning (s) fog teeth.

Model# Suffix: S = Spinning Teeth L = Low Pressure 75 psi K = Low Pressure 55 psi

HM-TO
HM-TOS
HML-TO
HML-TOS
HMK-TO
HMK-TOS



NFPA 1964
COMPLIANT



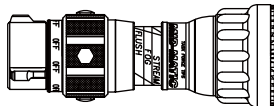
2.8 lb (1.3kg)
9.00" (22.9cm)

HM-TO MID-MATIC TIP 100 PSI 1.5" NH (38mm) - Automatic nozzle for use with separate valve or valved playpipe. Full automatic 100 psi (7 bar) pressure control with a flow capacity of 70-200 gpm (260-760 l/min). Includes flush without shutting down, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off and must be used with a separate valve or valved playpipe. 1.5" NH (38mm) rigid rocker lug-coupling is standard.

HML-TO LOW PRESSURE 75 PSI VERSION. Same as HM-TO above, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 70-200 gpm (260-680 l/min).

HMK-TO LOW PRESSURE 55 PSI VERSION. Same as HM-TO above, but operates at a lower pressure of approximately 55 psi (3 bar). Flow range is 70-180 gpm (260-680 l/min).

HM-STO
HM-STOS
HML-STO
HML-STOS
HMK-STO
HMK-STOS



NFPA 1964
COMPLIANT



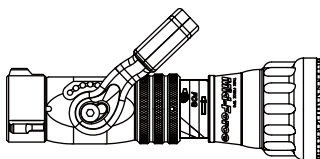
3.5 lb (1.6kg)
10.00" (25.4cm)

HM-STO MID-MATIC TIP/TWIST-OFF 100 PSI 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 70-200 gpm (260-760 l/min). Includes patented twist slide-type valve for turbulence-free flow control, flush without shutting down, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. 1.5" NH (38mm) rigid rocker lug coupling is standard. May be used with a separate valve or playpipe. Ideal for break-and-extend operations. 1.5" NH (38mm) rigid rocker lug coupling is standard.

HML-STO - LOW PRESSURE 75 PSI VERSION. Same as HM-STO above, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 70-200 gpm (260-760 l/min).

HMK-STO - LOW PRESSURE 55 PSI VERSION. Same as HM-STO above, but operates at a lower pressure of approximately 55 psi (3 bar). Flow range is 70-180 gpm (260-680 l/min).

HM-V
HM-VS
HML-V
HML-VS
HMK-V
HMK-VS



NFPA 1964
COMPLIANT



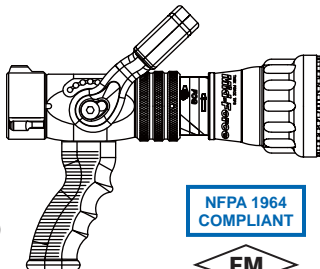
4.5 lb (2.1kg)
11.50" (29.2cm)

HM-V MID-MATIC NOZZLE 100 PSI 1.5" NH (38mm) - Automatic with a flow capacity of 70-200 gpm (260-760 l/min). Includes flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Rocker lug 1.5" NH (38mm) full-time swivel coupling is standard.

HML-V - LOW PRESSURE VERSION. Same as HM-V above, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 70-200 gpm (260-760 l/min).

HMK-V - LOW PRESSURE 55 PSI VERSION. Same as HM-V above, but operates at a lower pressure of approximately 55 psi (3 bar). Flow range is 70-180 gpm (260-680 l/min).

HM-VPGI
HM-VPGIS
HML-VPGI
HML-VPGIS
HMK-VPGI
HMK-VPGIS



NFPA 1964
COMPLIANT








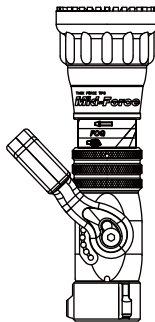

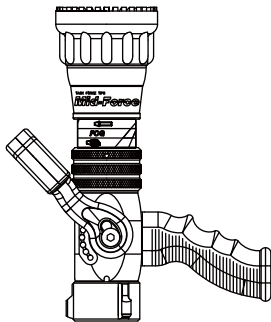
4.8 lb (2.2kg)
11.50" (29.2cm)

HM-VPGI MID-MATIC W/GRIP 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 70-200 gpm (260-760 l/min). Includes flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Pistol grip is mounted below the valve. 1.5" NH (38mm) full-time swivel rocker lug coupling is standard.



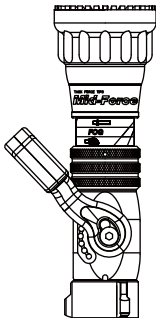
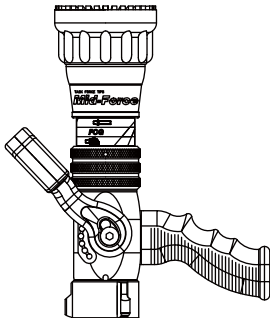
HML-VPGI - LOW PRESSURE 75 PSI VERSION. Same as HM-VPGI above, but operates at a lower pressure of approximately 75 psi (5 bar). Flow range is 70-200 gpm (260-760 l/min).

HMK-VPGI - LOW PRESSURE 55 PSI VERSION. Same as HM-VPGI above, but operates at a lower pressure of approximately 55 psi (3 bar). Flow range is 70-180 gpm (260-680 l/min).

FoamJet Models for Mid-Matic Series FJ-HM, FJ-LX-HM & FJ-MX-HM (found on pages 40 & 41)

<div>Mid-Matic Series</div> <div>1.5" (38mm)</div> <div>Automatic Pressure Nozzles</div> <div>70-200 GPM</div> <div>(260 - 760 l/min)</div> <div>NFPA 1964 COMPLIANT</div>	<div></div> <div></div> <div>Nozzle Tip Only</div>	<div></div> <div></div> <div>Nozzle Tip Only w/Twist Shutoff</div>	<div></div> <div></div> <div>Nozzle w/Shutoff</div>	<div></div> <div></div> <div>Nozzle w/Shutoff & Pistol Grip</div>
100 psi NH Threads Fixed Teeth	HM-TO	HM-STO	HM-V	HM-VPGI
100 psi NH Threads Spinning Teeth	HM-TOS	HM-STOS	HM-VS	HM-VPGIS
75 psi NH Threads Fixed Teeth	HML-TO	HML-STO	HML-V	HML-VPGI
75 psi NH Threads Spinning Teeth	HML-TOS	HML-STOS	HML-VS	HML-VPGIS

FoamJet Models for Mid-Matic Series FJ-HM, FJ-LX-HM & FJ-MX-HM (found on pages 40 & 41)

<div>1.5" (38mm)</div> <div>Automatic Pressure</div> <div>Nozzles</div> <div>70-180 GPM</div> <div>(260 - 700 l/min)</div> <div>NFPA 1964 COMPLIANT</div>	<div><div>FM</div><div>APPROVED</div></div> <div></div>	<div><div>FM</div><div>APPROVED</div></div> <div></div>	<div><div>FM</div><div>APPROVED</div></div> <div></div>	<div><div>FM</div><div>APPROVED</div></div> <div></div>
	Nozzle Tip Only	Nozzle Tip Only w/Twist Shutoff	Nozzle w/Shutoff	Nozzle w/Shutoff & Pistol Grip
55 psi NH Threads Fixed Teeth	HMK-TO	HMK-STO	HMK-V	HMK-VPGI
55 psi NH Threads Spinning Teeth	HMK-TOS	HMK-STOS	HMK-VS	HMK-VPGIS

1.5" (38mm) MID-FORCE SERIES

70 - 200 GPM (260 - 760 l/min)

Dual Pressure Automatic

The wide flow range of 70-200 gpm (260-760 l/min) allows the Mid-Force to be used on 1.5" (38mm), 1.75" (45mm) and 2" (52mm) hose. The TFT Mid-Force is a truly rugged, dependable, and effective mid-range firefighting nozzle. This nozzle is equipped with a low pressure override which allows the nozzle to achieve greater flows at lower nozzle pressures. All nozzles are regulated to 100 psi \pm 15 psi (7 bar \pm 1 bar) according to NFPA #1964 flow requirements. It is adjustable from a straight stream to a dense fog pattern with your choice of molded rubber fog teeth for full-fill "power fog" pattern or stainless steel spinning teeth. Handle covers and pistol grips are available in NFPA colors to identify a nozzle with its discharge (NFPA 1901 (A.16.9.1)). All Mid-Force nozzles accept: the FJ-LX-HM, FJ-HM low-expansion, or the FJ-MX-HM multi-expansion foam attachments.

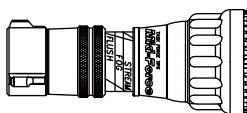
In the standard mode, the Mid-Force Nozzle maintains a 100 psi (7 bar) operating nozzle pressure (75psi / 5bar for low pressure version). The TFT high level of quality, engineered into all our products, allows this nozzle to meet the NFPA #1964 flow requirements for automatic nozzles. This gives you the desired ability to aggressively conduct a hard- hitting fire attack.

With a twist of the knob on the front of the nozzle, you switch to the low pressure mode, which immediately reduces the nozzle's operating pressure to around 55 psi (3 bar) (45psi / 3bar for low pressure version). This exclusive TFT feature provides you with the unique ability to change operating nozzle pressure approximately depending on the situation, thereby allowing maximum flow at a lower nozzle pressure.

Model# Suffix: S = Spinning Teeth L = Low Pressure

HMD-TO
HMD-TOS
HMDL-TO
HMDL-TOS

3.0 lb (1.4kg)
9.00" (22.9cm)



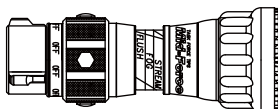
NFPA 1964
COMPLIANT

HMD-TO MID-FORCE TIP 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 70-200 gpm (260-760 l/min). Includes flush without shutting down, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off and must be used with a separate valve or valved playpipe. Nozzle may be switched between standard 100 psi (7 bar) and low pressure. 1.5" NH (38mm) rigid rocker lug coupling is standard.

HMDL-TO LOW PRESSURE VERSION. Same as HMD-TO above, but operates at lower pressures of approximately 75 psi (5 bar) / 45 psi (3 bar).

HMD-STO
HMD-STOS
HMDL-STO
HMDL-STOS

3.6 lb (1.6kg)
10.00" (25.4cm)



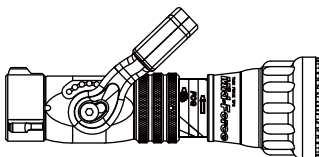
NFPA 1964
COMPLIANT

HMD-STO MID-FORCE TIP/TWIST-OFF 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 70-200 gpm (260-760 l/min). Includes patented twist slide-type valve for turbulence-free flow control, flush without shutting down, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. May be used with a separate valve or playpipe. Ideal for break-and-extend operations. Nozzle may be switched between standard 100 psi (7 bar) and low pressure. 1.5" NH (38mm) rigid rocker lug coupling is standard.

HMDL-STO LOW PRESSURE VERSION. Same as HMD-STO above, but operates at lower pressures of approximately 75 psi (5 bar) / 45 psi (3 bar).

HMD-V
HMD-VS
HMDL-V
HMDL-VS

4.5 lb (2.1kg)
11.50" (29.2cm)



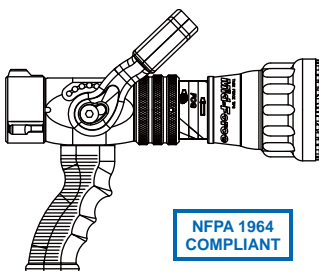
NFPA 1964
COMPLIANT

HMD-V MID-FORCE NOZZLE 1.5" NH (38mm) - Automatic with a flow capacity of 70-200 gpm (260-760 l/min). Includes flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Nozzle may be switched between standard 100 psi (7 bar) and low pressure. Rocker lug 1.5" NH (38mm) full-time swivel is standard.

HMDL-V LOW PRESSURE VERSION. Same as HMD-V above, but operates at lower pressures of approximately 75 psi (5 bar) / 45 psi (3bar).

HMD-VPGI
HMD-VPGIS
HMDL-VPGI
HMDL-VPGIS

4.9 lb (2.2kg)
11.50" (29.2cm)



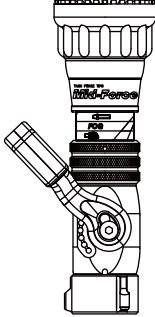
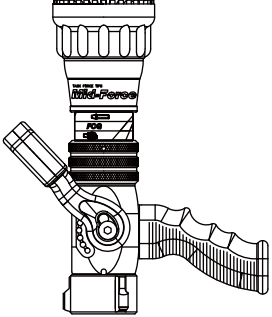


NFPA 1964
COMPLIANT

HMD-VPGI MID-FORCE W/GRIP 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 70-200 gpm (260-760 l/min). Includes flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Pistol grip is mounted below the valve. Nozzle may be switched between standard 100 psi (7 bar) and low pressure. 1.5" NH (38mm) swivel rocker lug coupling is standard.

HMDL-VPGI LOW PRESSURE VERSION. Same as HMD-VPGI above, but operates at lower pressures of approximately 75 psi (5 bar) / 45 psi (3 bar).

FoamJet Models for Mid-Force Series
FJ-HM, FJ-LX-HM & FJ-MX-HM
 (found on pages 40 & 41)

Mid-Force Series 1.5" (38mm) Dual Pressure Automatic Nozzles 70-200 GPM (260 - 760 l/min) <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 0 auto;"> NFPA 1964 COMPLIANT </div>	 <p>Nozzle Tip Only</p>	 <p>Nozzle Tip Only w/Twist Shutoff</p>	 <p>Nozzle w/Shutoff</p>	 <p>Nozzle w/Shutoff & Pistol Grip</p>
100/55 psi NH Threads Fixed Teeth	HMD-TO	HMD-STO	HMD-V	HMD-VPGI
100/55 psi NH Threads Spinning Teeth	HMD-TOS	HMD-STOS	HMD-VS	HMD-VPGIS
75/45 psi NH Threads Fixed Teeth	HMDL-TO	HMDL-STO	HMDL-V	HMDL-VPGI
75/45 psi NH Threads Spinning Teeth	HMDL-TOS	HMDL-STOS	HMDL-VS	HMDL-VPGIS

1.5" (38mm) HANDLINE SERIES

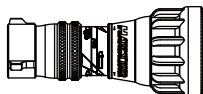
95-300 GPM (360-1150 l/min) or
95-250 GPM (360-950 l/min) low pressure

Automatic

A TFT Handline is all conventional handline sizes in one. The wide flow range of 95-300 gpm (360-1150 l/min) allows the Handline to be used on many hose sizes, and this series is an excellent choice for 1.5", 1.75", and 2.0" (38mm, 45mm and 52mm) attack lines. The Handline features flush without shutdown, molded rubber bumper with "power fog" teeth, TFT's patented stainless steel slide valve, and optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1)). All TFT Handlines accept the FJ-H low-expansion or the FJ-HMX multi-expansion foam attachments.

L = Low Pressure 75 psi K = Low Pressure 55 psi

H-TO
HL-TO
HK-TO



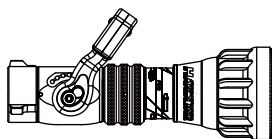
4.4 lb (2.0kg)
9.75" (23.8cm)

H-TO HANDLINE TIP 1.5" NH (38mm) - Nozzle for use with separate valve or valved playpipe. Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, molded rubber teeth for full-fill "power fog" pattern, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. Tip does not shut off and must be used with a separate valve or valved playpipe. 1.5" NH (38mm) rigid rocker lug coupling is standard.

HL-TO HANDLINE TIP LOW PRESSURE VERSION - Same as H-TO above, but operates at a low pressure of approximately 75 psi (5 bar). Flow range 95-250 gpm (360-950 l/min).

HK-TO HANDLINE TIP LOW PRESSURE VERSION - Same as H-TO above, but operates at a low pressure of approximately 55 psi (3bar). Flow range 95-225 gpm (360-850 l/min).

H-V
HL-V
HK-V



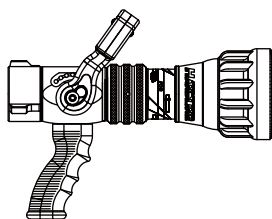
6.8 lb (3.1kg)
13.00" (33.0cm)

H-V HANDLINE NOZZLE 1.5" NH (38mm) - Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 1.5" NH (38mm) rocker lug swivel coupling is standard.

HL-V HANDLINE NOZZLE LOW PRESSURE VERSION - Same as H-V above, but operates at a low pressure of approximately 75 psi (5 bar). Flow range 95-250 gpm (360-950 l/min).

HK-V HANDLINE NOZZLE LOW PRESSURE VERSION - Same as H-V above, but operates at a low pressure of approximately 55 psi (3bar). Flow range 95-225 gpm (360-850 l/min).

H-VPGI
HL-VPGI
HK-VPGI



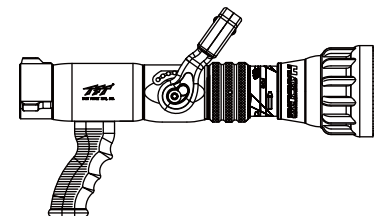
7.0 lb (3.2kg)
13.00" (33.0cm)

H-VPGI HANDLINE W/GRIP 1.5" NH (38mm) - Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Pistol grip is mounted below the valve. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 1.5" NH (38mm) rocker lug full-time swivel coupling is standard.

HL-VPGI HANDLINE W/GRIP LOW PRESSURE VERSION - Same as H-VPGI above, but operates at a low pressure of approximately 75 psi (5 bar). Flow range 95-250 gpm (360-950 l/min).

HK-VPGI HANDLINE W/GRIP LOW PRESSURE VERSION - Same as H-VPGI above, but operates at a low pressure of approximately 55 psi (3bar). Flow range 95-225 gpm (360-850 l/min).

H-VPG
HL-VPG
HK-VPGI




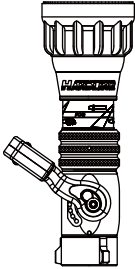
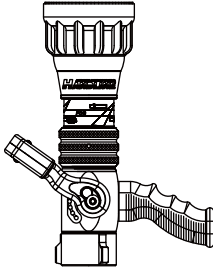
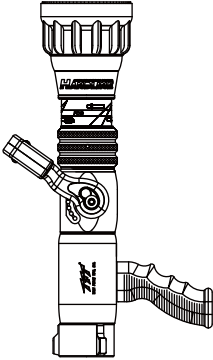
8.7 lb (3.9kg)
17.12" (43.5cm)

H-VPG HANDLINE LONG GRIP 1.5" NH (38mm) - Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Pistol grip is mounted behind the valve. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 1.5" NH (38mm) rocker lug full-time swivel is standard.


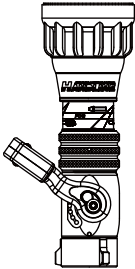
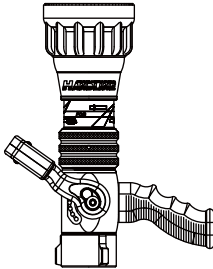
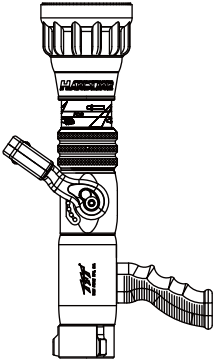
HL-VPG HANDLINE LONG GRIP LOW PRESSURE VERSION - Same as H-VPG above, but operates at a low pressure of approximately 75 psi (5 bar). Flow range 95-250 gpm (360-950 l/min).

HK-VPG HANDLINE LONG GRIP LOW PRESSURE VERSION - Same as H-VPG above, but operates at a low pressure of approximately 55 psi (3bar). Flow range 95-225 gpm (360-850 l/min).

**FoamJet Models for Handline Series
FJ-H & FJ-HMX
(found on pages 40 & 42)**

Handline Series 1.5" (38mm) Automatic Pressure Nozzles 95-300 GPM (360-1160 l/min) or 95-250 GPM (360-950 l/min) low pressure				
	Nozzle Tip Only			
		Nozzle w/Shutoff	Nozzle w/Shutoff & Pistol Grip	Nozzle w/Shutoff Pistol Grip & Extended Body
	100 psi NH Threads	H-TO	H-V	H-VPGI
75 psi NH Threads	HL-TO	HL-V	HL-VPGI	HL-VPG

**FoamJet Models for Handline Series
FJ-H & FJ-HMX
(found on pages 40 & 42)**

Handline Series 1.5" (38mm) Automatic Pressure Nozzles 95-225 GPM (360-850 l/min)				
	Nozzle Tip Only			
		Nozzle w/Shutoff	Nozzle w/Shutoff & Pistol Grip	Nozzle w/Shutoff Pistol Grip & Extended Body
	55 psi NH Threads	HK-TO	HK-V	HK-VPGI
				HK-VPG

2.5" (65mm) HANDLINE SERIES

95-300 GPM (360-1150 l/min) or
95-250 GPM (360-950 l/min) low pressure

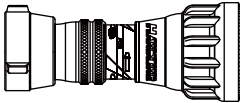
Automatic

A TFT Handline is all conventional handline sizes in one. The wide flow range of 95-300 gpm (360-1150 l/min) allows the Handline to be used on many hose sizes, and this series is an excellent choice for 2.5" (65mm) and 3" (75mm) attack lines. The Handline features flush without shutdown, molded rubber bumper with "power fog" teeth, TFT's patented stainless steel slide valve, optional color-coded pistol grip, handle covers (NFPA 1901 (A. 16.9.1) or rubber coated playpipe handles). All TFT Handlines accept the FJ-H low-expansion or the FJ-HMX multi-expansion foam attachments.

L = Low Pressure 75 psi

H-2TO
HL-2TO

5.0 lb (2.3kg)
10.25" (26.0cm)

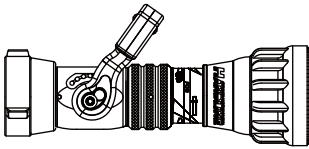


H-2TO HANDLINE TIP 2.5" NH (65mm) - Nozzle for use with separate valve or valved playpipe. Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, molded rubber teeth for full-fill "power fog" pattern, "Gasket Grabber" inlet screen, and turbulence control. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. Tip does not shut off and must be used with a separate valve or valved playpipe. 2.5" NH (65mm) rigid rocker lug coupling is standard.

HL-2TO HANDLINE TIP LOW PRESSURE VERSION - Same as H-2TO above, but operates at a low pressure of approximately 75 psi (5 bar). Flow range 95-250 gpm (360-950 l/min).

H-2V
HL-2V

7.3 lb (3.3kg)
13.50" (34.3cm)

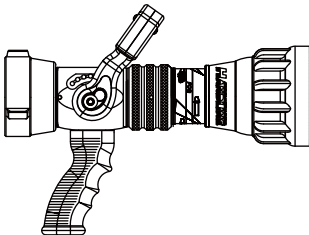


H-2V HANDLINE NOZZLE 2.5" NH (65mm) - Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). For direct connection to 2.5" (65mm) hose line. Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 2.5" NH (65mm) rocker lug full-time swivel coupling is standard.

HL-2V HANDLINE NOZZLE LOW PRESSURE VERSION - Same as H-2V above, but operates at a low pressure of approximately 75 psi (5 bar). Flow range 95-250 gpm (360-950 l/min).

H-2VPGI
HL-2VPGI

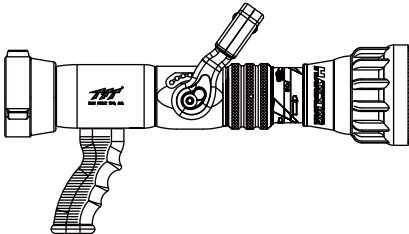
7.0 lb (3.2kg)
13.50" (34.3cm)



H-2VPGI or H-2VPG HANDLINE W/GRIP 2.5" NH (65mm) - Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Pistol grip is mounted below the valve (H-2VPGI) or behind the valve (H-2VPG). Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 2.5" NH (65mm) rocker lug full-time swivel coupling is standard.

H-2VPG
HL-2VPG

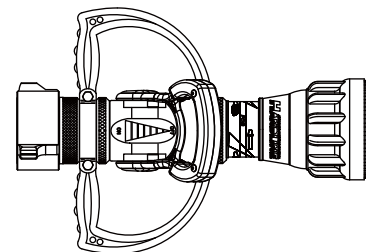
8.5 lb (3.8kg)
18.40" (46.7cm)



HL-2VPGI or HL-2VPG HANDLINE NOZZLE LP VERSION - Same as H-2VPGI or H-2VPG above, but operates at a low pressure of approximately 75 psi (5 bar). Flow range 95-250 gpm (360-950 l/min).

H-2BLITZ
HL-2BLITZ


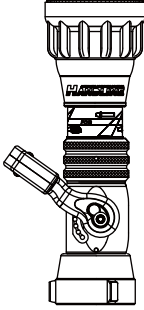
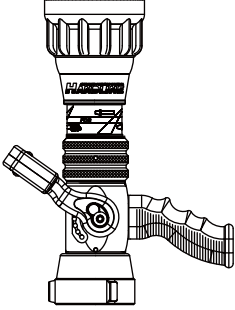
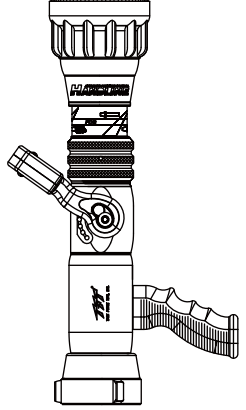
10.2 lb (4.6kg)
15.12" (38.4cm)

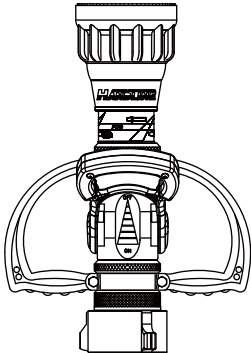


H-2BLITZ HANDLINE PLAYPIPE 2.5" NH (65mm) - Smallest, most compact nozzle/playpipe combination available for use on 2.5" (65mm) or 3" (75mm) lines. Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog" pattern, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. Nozzle is attached to valve and is not removable. Rubber coated handles are designed to reduce fatigue. 2.5" NH (65mm) rocker lug full-time swivel coupling is standard.

HL-2BLITZ HANDLINE PLAYPIPE LOW PRESSURE VERSION - Same as H-2BLITZ above, but operates at a low pressure of approximately 75 psi (5 bar). Flow range 95-250 gpm (360-950 l/min).

**FoamJet Models for Handline Series
FJ-H & FJ-HMX
(found on pages 40 & 42)**

Handline Series Automatic Pressure 2.5" (65mm) Nozzles 95-300 GPM (360-1160 l/min) or 95-250 GPM (360-960 l/min) low pressure				
100 psi 2.5" NH Threads	H-2TO	H-2V	H-2VPGI	H-2VPG
75 psi 2.5" NH Threads	HL-2TO	HL-2V	HL-2VPGI	HL-2VPG

Handline Series Automatic Pressure 2.5" (65mm) Nozzles 95-300 GPM (360-1160 l/min) or 95-250 GPM (360-960 l/min) low pressure	
100 psi 2.5" NH Threads	H-2BLITZ
75 psi 2.5" NH Threads	HL-2BLITZ

1.5" (38mm) DUAL FORCE SERIES

95-300 GPM (360-1150 l/min) or
95-250 GPM (360-950 l/min) low pressure

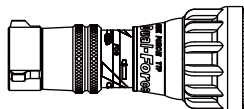
Dual Pressure Automatic

A TFT Dual Force is all conventional handline sizes in one. The wide flow range of 95-300 gpm (360-1150 l/min) allows the Handline to be used on many hose sizes, and this series is an excellent choice for 1.5", 1.75", and 2.0" (38mm, 45mm and 52mm) attack lines. The Handline features flush without shutdown, molded rubber bumper with "power fog" teeth, TFT's patented stainless steel slide valve, and optional colored pistol grip and handle covers (NFPA 1901 (A.16.9.1)). All TFT Handlines accept the FJ-H low-expansion or the FJ-HMX multi-expansion foam attachments.

L = Low Pressure

HD-TO HDL-TO

4.4 lb (2.0kg)
9.75" (23.8cm)

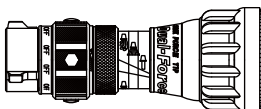


HD-TO DUAL-FORCE TIP 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, molded rubber teeth for full-fill "power fog", "Gasket Grabber", and turbulence-free flow control. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 1.5" NH (38mm) rigid rocker lug coupling is standard. Tip does not shut off and must be used with a separate valve or valved playpipe. Nozzle may be switched between standard 100 psi (7 bar) and low pressure.

HDL-TO LOW PRESSURE VERSION. Same as HD-TO above, but operates at a lower pressure of approximately 75 psi (5 bar) / 45 psi (3 bar). Flow capacity 95-250 gpm (360-950 l/min) @ 75 psi.

HD-STO HDL-STO

5.3 lb (2.4kg)
11.00" (28.0cm)

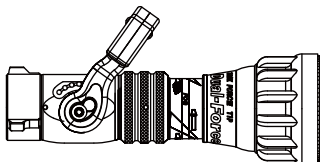


HD-STO DUAL-FORCE TIP/TWIST-OFF 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, molded rubber teeth for full-fill "power fog", "Gasket Grabber" and twist slide-type valve for turbulence-free flow control. May be used with a separate valve or playpipe. Ideal for break-and-extend operations. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 1.5" NH (38mm) rigid rocker lug coupling is standard. Nozzle may be switched between standard 100 psi (7 bar) and low pressure.

HDL-STO LOW PRESSURE VERSION. Same as HD-STO above, but operates at a lower pressure of approximately 75 psi (5 bar) / 45 psi (3 bar). Flow capacity 95-250 gpm (360-950 l/min) @ 75 psi.

HD-V HDL-V

6.6 lb (3.0kg)
13.00" (38.0cm)

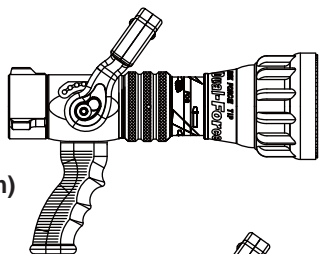


HD-V DUAL-FORCE NOZZLE 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 1.5" NH (38mm) rocker lug full-time swivel coupling is standard. Nozzle may be switched between standard 100 psi (7 bar) and low pressure.

HDL-V LOW PRESSURE VERSION. Same as HD-V above, but operates at a lower pressure of approximately 75 psi (5 bar) / 45 psi (3 bar). Flow capacity 95-250 gpm (360-950 l/min) @ 75 psi.

HD-VPGI HDL-VPGI

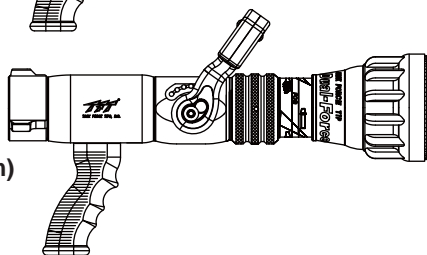
7.0 lb (3.2kg)
13.00" (33.0cm)



HD-VPGI or HD-VPG DUAL-FORCE W/GRIP 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free operator flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Pistol grip is mounted below the valve (HD-VPGI), or behind the valve (HD-VPG). Lightweight hardcoat anodized materials for maximum resistance to corrosion and wear. 1.5" NH (38mm) rocker lug full-time swivel coupling is standard. Nozzle may be switched between standard 100 psi (7 bar) and low pressure.



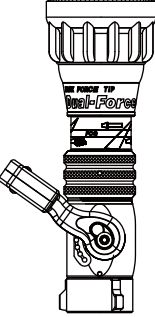
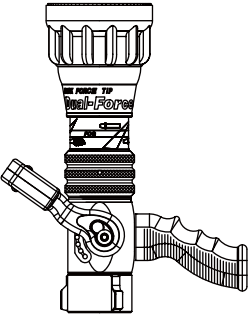
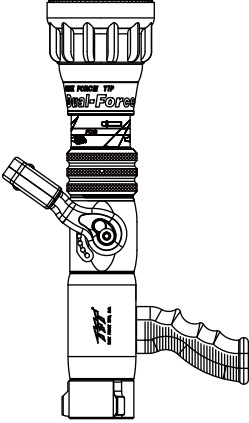
HD-VPG HDL-VPG

8.7 lb (3.9kg)
17.12" (43.5cm)



HDL-VPGI or HDL-VPG LOW PRESSURE VERSION. Same as HD-VPGI or HD-VPG above, but operates at a lower pressure of approximately 75 psi (5 bar) / 45 psi (3 bar). Flow capacity 95-250 gpm (360-950 l/min) @ 75 psi.

FoamJet Models for Dual Force Series
FJ-H & FJ-HMX
(found on pages 40 & 42)

Dual-Force 1.5" (38mm) Dual Pressure Automatic Nozzles 95-300 GPM (360-1160 l/min) or 95-250 GPM (360-960 l/min) low pressure					
	Nozzle Tip Only	Nozzle Tip Only w/Twist Shutoff	Nozzle w/ Shutoff	Nozzle w/Shutoff & Pistol Grip	Nozzle w/Shutoff, Pistol Grip & Extended Body
100/55 psi NH Threads	HD-TO	HD-STO	HD-V	HD-VPGI	HD-VPG
75/45 psi NH Threads	HDL-TO	HDL-STO	HDL-V	HDL-VPGI	HDL-VPG

2.5" (65mm) DUAL FORCE SERIES

95-300 GPM (360-1150 l/min) or
95-250 GPM (360-950 l/min) low pressure

Dual Pressure Automatic

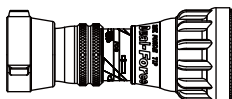
A TFT Dual-Force is all conventional handline sizes in one. The wide flow range of 95-300 gpm (360-1150 l/min) allows the nozzle to be used on 2.5" and 3" (65 & 75mm) attack lines. The Dual-Force features flush without shutting down, molded rubber bumper with "power fog" teeth, TFT's patented stainless steel slide valve, the unique low pressure override which allows the nozzle to achieve greater flows at lower nozzle pressures, and an optional color-coded pistol grip, handle covers (NFPA 1901 (A.16.9.1) or rubber coated playpipe handles. All TFT Handlines accept the FJ-H low-expansion or the FJ-HMX multi-expansion foam attachments.

In the standard mode, the Dual-Force Nozzle maintains a 100 psi / 7 bar operating nozzle pressure (75 psi / 5 bar on low pressure version) and meets the NFPA #1964 flow requirements for automatic nozzles. With a twist of the knob on the front of the nozzle, you can switch the Dual-Force to the low-pressure mode, which immediately reduces the nozzle's operating pressure to around 55 psi / 4 bar (approximately 45 psi / 3 bar in low pressure version).

L = Low Pressure

HD-2TO HDL-2TO

3.5 lb (1.6kg)
10.50" (26.7cm)

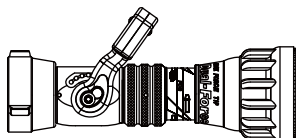


HD-2TO DUAL-FORCE TIP 2.5" NH (65mm) - Automatic pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, molded rubber teeth for full-fill "power fog", "Gasket Grabber", and turbulence-free flow control. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 2.5" NH (65mm) rigid rocker lug coupling is standard. Tip does not shut off and must be used with a separate valve or valved playpipe. Nozzle may be switched between standard 100 psi (7 bar) and low pressure.

HDL-2TO LOW PRESSURE VERSION. Same as HD-2TO above, but operates at a lower pressure of approximately 75 psi (5 bar) / 45 psi (3bar). Flow capacity 95-250 gpm (360-950 l/min) @ 75 psi.

HD-2V HDL-2V

7.4 lb (3.4kg)
13.50" (34.3cm)

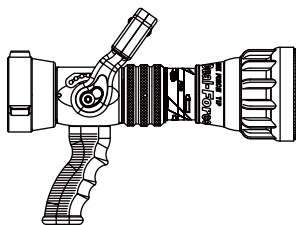


HD-2V DUAL-FORCE NOZZLE 2.5" NH (65mm) - Automatic pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 2.5" NH (65mm) rocker lug full-time swivel coupling is standard. Nozzle may be switched between standard 100 psi (7 bar) and low pressure.

HDL-2V LOW PRESSURE VERSION. Same as HD-2V above, but operates at a lower pressure of approximately 75 psi (5 bar) / 45 psi (3bar). Flow capacity 95-250 gpm (360-950 l/min) @ 75 psi.

HD-2VPGI HDL-2VPGI

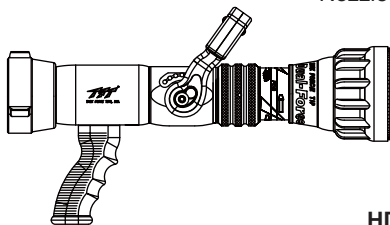
7.0 lb (3.2kg)
13.50" (34.3cm)



HD-2VPGI or HD-2VPG DUAL-FORCE W/GRIP 2.5" NH (65mm) - Automatic pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog", and "Gasket Grabber" inlet screen. Pistol grip is mounted below valve (HD-2VPGI), or behind the valve (HD-2VPG). Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. 2.5" NH (65mm) rocker lug full-time swivel coupling is standard. Nozzle may be switched between standard 100 psi (7 bar) and low pressure.

HD-2VPG HDL-2VPG

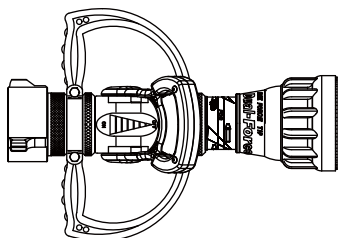
9.0 lb (4.1kg)
18.40" (46.7cm)



HDL-2VPG or HD-2VPGI LOW PRESSURE VERSION. Same as HD-2VPGI or HD-2VPG above, but operates at a lower pressure of approximately 75 psi (5 bar) / 45 psi (3bar). Flow capacity 95-250 gpm (360-950 l/min) @ 75 psi.

HD-2BLITZ HDL-2BLITZ


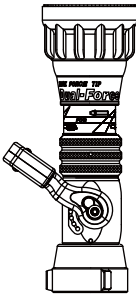
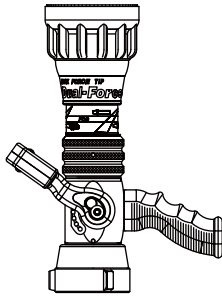
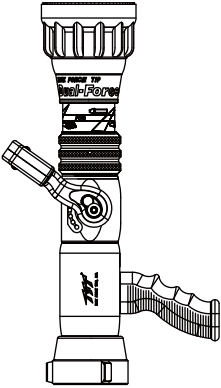
10.2 lb (4.6kg)
15.12" (38.4cm)

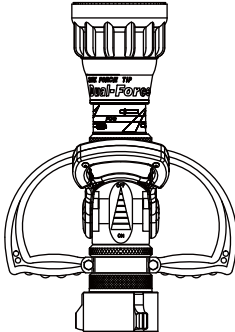


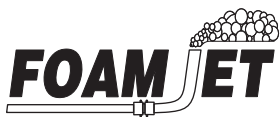
HD-2BLITZ DUAL-FORCE PLAYPIPE 2.5" NH (65mm) - Nozzle/playpipe combination available for use on 2.5" (65mm) or 3" (75mm) lines. Automatic 100 psi (7 bar) pressure control with a flow capacity of 95-300 gpm (360-1150 l/min). Includes pressure-assisted flush without shutting down, patented slide-type valve for turbulence-free flow control, six detent flow positions, molded rubber teeth for full-fill "power fog" pattern, and "Gasket Grabber" inlet screen. Lightweight hardcoat anodized aluminum materials for maximum resistance to corrosion and wear. Nozzle is attached to valve and is not removable. Rubber coated handles are designed to reduce fatigue. 2.5" NH (65mm) rocker lug full-time swivel coupling is standard. Nozzle may be switched between standard 100 psi (7 bar) and low pressure.

HDL-2BLITZ LOW PRESSURE VERSION. Same as HD-2BLITZ above, but operates at a lower pressure of approximately 75 psi (5 bar) / 45 psi (3bar). Flow capacity 95-250 gpm (360-950 l/min) @ 75 psi.

FoamJet Models for Dual Force Series
FJ-H & FJ-HMX
 (found on pages 40 & 42)

Dual-Force 2.5" (65mm) Dual Pressure Automatic Nozzles 95-300 GPM (360-1160 l/min) or 95-250 GPM (360-960 l/min) low pressure				
100/55 psi 2.5" NH Threads	HD-2TO	HD-2V	HD-2VPGI	HD-2VPG
75/45 psi 2.5" NH Threads	HDL-2TO	HDL-2V	HDL-2VPGI	HDL-2VPG

Dual-Force 2.5" (65mm) Dual Pressure Automatic Nozzles 95-300 GPM (360-1160 l/min) or 95-250 GPM (360-960 l/min) low pressure	
100/55 psi 2.5" NH Threads	HD-2BLITZ
75/45 psi 2.5" NH Threads	HDL-2BLITZ

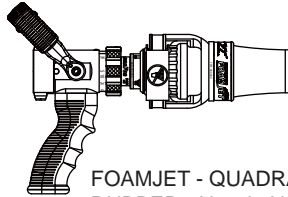


Low-Expansion Foam Attachment

Make your TFT nozzle a high performance foam nozzle with the FOAMJET air-aspirating attachment. Simple, rugged and dependable, the FOAMJET can be quickly attached to either the 1" (25mm) QuadraFog, Ultimatic 125, MidMatic, Mid-Force, Handline, Dual-Force, Metro 1, or Metro 2 series of TFT nozzles. The FOAMJET provides superior foam-making ability with most modern foam concentrates. When used with AFFF and Class A foams, the FOAMJET can develop expansion ratios of 6:1. This thick foam blanket has better extinguishing ability and is longer lasting than foam from non-aspirated nozzles. It can be easily removed in seconds for a water-only or non-aspirated stream. FOAMJET is used in straight stream position only.

FJ-DQ

0.9 lb (0.4kg)
6.50" (16.5cm)

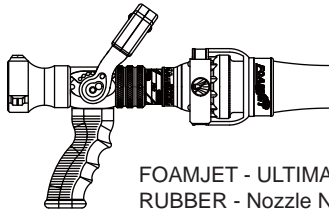


FOAMJET - QUADRAFOG 1" (25mm)
RUBBER - Nozzle Not Included

FJ-DQ FOAMJET - QUADRAFOG 1" (25mm) RUBBER - Air-aspirating foam-making attachment for all 1" (25mm) QuadraFog Series nozzles. The FOAMJET is constructed of molded rubber, stainless steel, and lightweight nickel plated aluminum. NOTE: Not intended to produce foam at 5 and 10 gpm (20 and 40 l/min) settings.

FJ-U

0.9 lb (0.4kg)
6.50" (16.5cm)

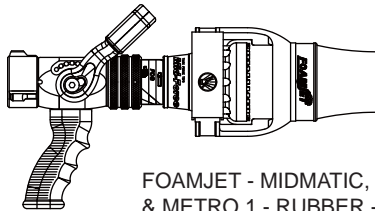


FOAMJET - ULTIMATIC
RUBBER - Nozzle Not Included

FJ-U FOAMJET - ULTIMATIC - RUBBER - Air-aspirating foam-making attachment for all "Ultimatic 125" Series nozzles. The FOAMJET is constructed of molded rubber, stainless steel, and lightweight nickel plated aluminum.

FJ-HM

1.8 lb (0.8kg)
8.50" (21.6cm)

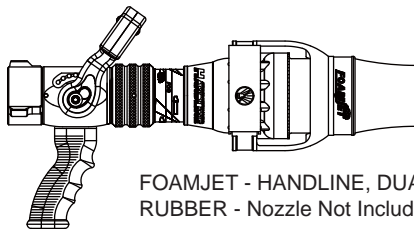


FOAMJET - MIDMATIC, MID-FORCE,
& METRO 1 - RUBBER - Nozzle Not Included

FJ-HM FOAMJET - MIDRANGE - RUBBER - Air-aspirating foam-making attachment for all Midmatic, Mid-Force & Metro 1 series nozzles. The FOAMJET is constructed of molded rubber, stainless steel, and lightweight nickel plated aluminum.

FJ-H

1.8 lb (0.8kg)
8.50" (21.6cm)



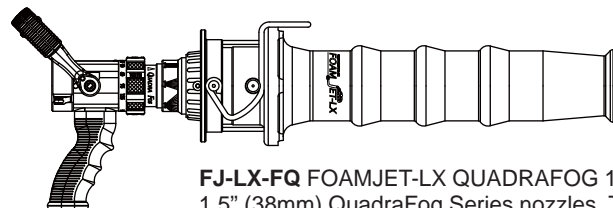
FOAMJET - HANDLINE, DUAL-FORCE, METRO 2
RUBBER - Nozzle Not Included

FJ-H FOAMJET - HANDLINE - RUBBER - Air-aspirating foam-making attachment for all Handline, Dual-Force and Metro 2 series nozzles. The FOAMJET is constructed of molded rubber, stainless steel, and lightweight nickel plated aluminum.

The FOAMJET-LX is a lightweight, low-expansion foam-making, air-aspirating attachment. Simple, rugged and dependable, the FOAMJET-LX can be quickly attached and provides superior foam-making ability with most modern foam concentrates. When used with AFFF and Class A Foams, the FOAMJET-LX can develop a thick foam blanket which has better extinguishing ability and is longer lasting than foam from non-aspirating nozzles. The FOAMJET-LX can easily be removed in seconds for a water-only or non-aspirated stream. FOAMJET-LX is used in straight stream position only.

FJ-LX-FQ

3.3 lb (1.5kg)
20.20" (51.3cm)

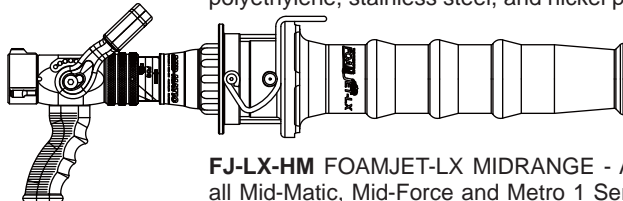


FOAMJET-LX QUADRAFOG 1.5" (38mm)
Nozzle Not Included

FJ-LX-FQ FOAMJET-LX QUADRAFOG 1.5" (38mm) - Air-aspirating foam-making attachment for all 1.5" (38mm) QuadraFog Series nozzles. The FOAMJET-LX is constructed of durable U.V. stabilized polyethylene, stainless steel, and nickel plated aluminum.

FJ-LX-HM

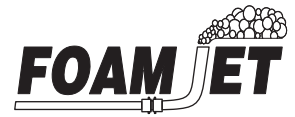
2.9 lb (1.3kg)
20.20" (51.3cm)



FOAMJET-LX MID-MATIC, MID-FORCE, METRO 1
Nozzle Not Included

FJ-LX-HM FOAMJET-LX MIDRANGE - Air-aspirating low expansion foam-making attachment for all Mid-Matic, Mid-Force and Metro 1 Series Nozzles. Provides excellent low expansion foam with a tight bubble structure. The FOAMJET-LX is constructed of durable U.V. stabilized polyethylene, stainless steel, and nickel plated aluminum.

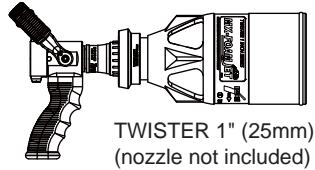
Multi-Expansion Foam Attachment



The MX-FOAMJET is a simple to attach, compact, lightweight, and rugged multi-expansion foam-aspirating attachment for your Twister, QuadraFog, METRO 1, ThunderFog, Mid-Matic and Mid-Force Series nozzles. It can be used with many foam concentrates that are recommended for low or medium expansion equipment. The thick foam blanket produced has superior vapor-suppression capabilities and is longer lasting than foam from non-aspirated nozzles. The locking ring attaches easily and securely to the rubber bumper and can also be removed quickly for water-only or non-aspirated streams. Rotating the MX-FOAMJET gives you the unique ability to vary the expansion ratio and stream reach of finished foam.

FJ-MX-D

1.4 lb (0.6kg)
10.60" (26.9cm)

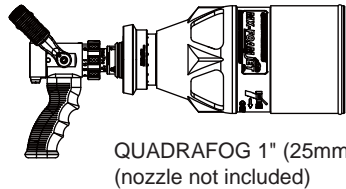


TWISTER 1" (25mm)
(nozzle not included)

FJ-MX-D MX-FOAMJET - TWISTER 1" (25mm) - Air-aspirating foam-making attachment for all 1" (25mm) Twister Series nozzles. Flow range of 10, 24, & 40 gpm (37, 90 & 150 l/min) matches that of corresponding 1" (25mm) Twister Series nozzle (needed for operation). The MX-FOAMJET is constructed of durable U.V. stabilized polyethylene and aluminum. Diameter 5.2" (13cm).

FJ-MX-DQ

2.3 lb (1.0kg)
12.60" (32.0cm)

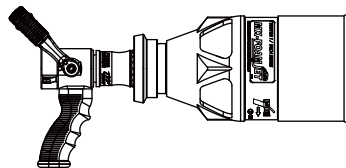


QUADRAFOG 1" (25mm)
(nozzle not included)

FJ-MX-DQ MX-FOAMJET - QUADRAFOG 1" (25mm) - Air-aspirating foam-making attachment for all 1" (25mm) QuadraFog Series nozzles. Aspirates foam when operating the 1" (25mm) QuadraFog nozzle in 24-40 gpm (90-150 l/min) setting. The MX-FOAMJET is constructed of durable U.V. stabilized polyethylene and aluminum. Diameter 6.4" (16.3cm). NOTE: Not intended to produce foam at 5 and 10 gpm (20 and 40 l/min) settings.

FJ-MX-F

2.2 lb (1.0kg)
12.60" (32.0cm)

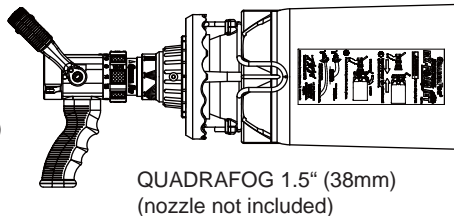


TWISTER 1.5" (38mm)
(nozzle not included)

FJ-MX-F MX-FOAMJET - TWISTER 1.5" (38mm) - Air-aspirating foam-making attachment for all 1.5" (38mm) Twister Series nozzles. Flow range of 20, 60, & 95 gpm (75, 230, & 360 l/min) matches that of corresponding 1.5" (38mm) Twister Series nozzle (needed for operation). The MX-FOAMJET is constructed of durable U.V. stabilized polyethylene and aluminum. Diameter 6.4" (16.3cm).

FJ-MX-FQ

3.3 lb (1.5kg)
15.20" (38.6cm)

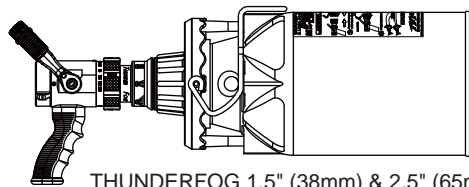


QUADRAFOG 1.5" (38mm)
(nozzle not included)

FJ-MX-FQ MX-FOAMJET - QUADRAFOG 1.5" (38mm) - Air-aspirating foam-making attachment for all 1.5" (38mm) QuadraFog nozzles. Flow range of 30-125 gpm (110-500 l/min) matches that of corresponding 1.5" (38mm) QuadraFog nozzle (needed for operation). The MX-FOAMJET is constructed of durable U.V. stabilized polyethylene, stainless steel, and aluminum. Diameter 7.4" (18.8cm).

FJ-MX-FT

5.2 lb (2.4kg)
17.00" (43.2cm)

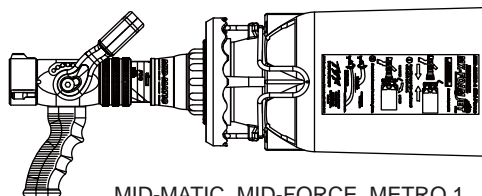


THUNDERFOG 1.5" (38mm) & 2.5" (65mm)
(nozzle not included)

FJ-MX-FT MX-FOAMJET - THUNDERFOG - Air-aspirating foam-making attachment for all 1.5" & 2.5" (38mm & 65mm) ThunderFog nozzles. Flow range of 30-250 gpm (110-500 l/min) matches that of corresponding 1.5" & 2.5" (38mm & 65mm) ThunderFog nozzle (needed for operation). The MX-FOAMJET is constructed of durable U.V. stabilized polyethylene stainless steel, and aluminum. Diameter 8.6" (21.8cm). NOTE: Will not fit fixed teeth models manufactured prior to 5/97 without bumper upgrade. (Free upgrade with purchase of FJ-MX-FT).

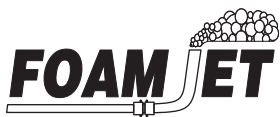
FJ-MX-HM

3.2 lb (1.5kg)
15.40" (39.1cm)



MID-MATIC, MID-FORCE, METRO 1
1.5" (38mm) - (nozzle not included)

FJ-MX-HM MX-FOAMJET - MIDRANGE - Air-aspirating foam-making attachment for all Mid-Force, Mid-Matic and METRO 1 Series nozzles. Flow range of 70 - 200 gpm (260-760 l/min) matches that of corresponding Mid-Force, Mid-Matic and METRO 1 Series nozzles (needed for operation). The MX-FOAMJET is constructed of durable U.V. stabilized polyethylene, stainless steel, and aluminum. Diameter 7.4" (18.8cm).

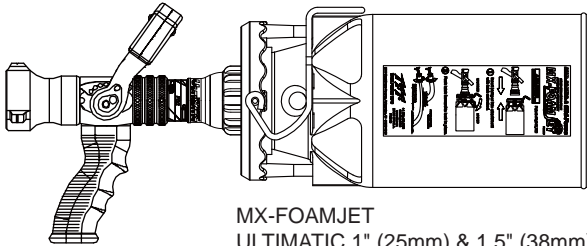


Multi-Expansion Foam Attachment

The MX-FOAMJET is a simple, lightweight multi-expansion foam-making attachment for TFT Handline, METRO 2, Dual-Force and Ultimatic 125 nozzles. The MX-FOAMJET allows for a wider selection of foam concentrates to be used, and has the unique ability to vary the expansion ratio and the stream reach of the finished foam. As the nozzle shaper is rotated to the wide fog position (counterclockwise), higher expansion ratios will be produced, but with reduced stream reach. Rotating the nozzle shaper forward to straight stream (clockwise), will produce lower expansion ratios, but with increased stream reach. The ability to regulate the reach and expansion ratio is unique to the MX-FOAMJET. It can be easily removed in seconds for a water-only or non-aspirated stream.

FJ-UMX

3.2 lb (1.5kg)
15.25" (39.1cm)

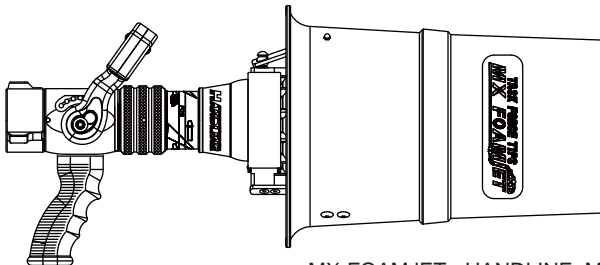


MX-FOAMJET
ULTIMATIC 1" (25mm) & 1.5" (38mm)
(nozzle not included)

FJ-UMX - MX-FOAMJET - ULTIMATIC - Air-aspirating foam-making attachment for all Ultimatic 125 Series nozzles. Flow range of 10-125 gpm (40-500 l/min) matches that of corresponding TFT Ultimatic 125 (needed for operation). The MX-FOAMJET is constructed of durable U.V. stabilized polyethylene, stainless steel, and aluminum. Diameter 7.4" (18.8cm).

FJ-HMX

3.1 lb (1.4kg)
15.62" (39.9cm)



MX-FOAMJET - HANDLINE, METRO 2, DUAL-FORCE
1.5" (38mm) & 2.5" (65mm) (nozzle not included)

FJ-HMX - MX-FOAMJET Multi-expansion foam-making attachment for all Handline, Dual-Force and METRO 2 Series nozzles. Flow range matches that of corresponding TFT Handline, Dual-Force and METRO 2 series nozzles (needed for operation). The MX-FOAMJET is constructed of durable polypropylene, stainless steel, and lightweight hardcoat anodized aluminum. Diameter 10.5" (26.7cm).

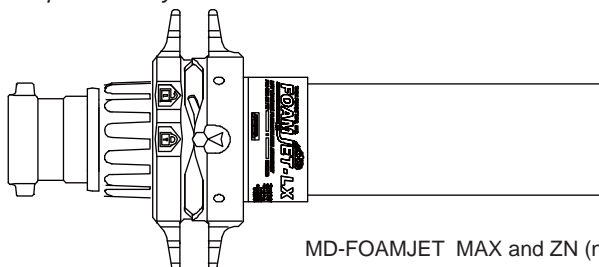


Low-Expansion Foam Attachment

The FOAMJET-LX is a lightweight, low expansion foam-making, air-aspirating attachment. Simple, rugged and dependable, the FOAMJET-LX can be quickly attached and provides superior foam-making ability with most modern foam concentrates. When used with AFFF and Class A Foams, the FOAMJET-LX can develop a thick foam blanket which has better extinguishing ability and is longer lasting than foam from non-aspirating nozzles. The FOAMJET-LX can easily be removed in seconds for a water-only or non-aspirated stream. FOAMJET-LX is used in straight stream position only.

FJ-LX-MD

6.0 lb (2.7 kg)
19.70" (50.1cm)

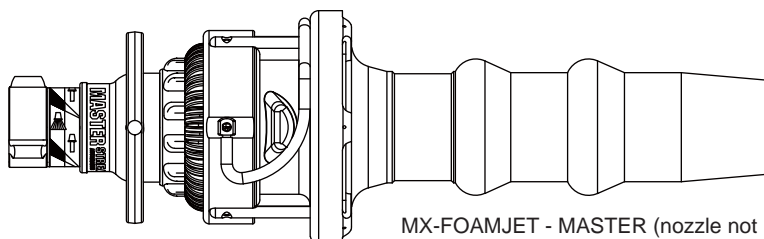


MD-FOAMJET MAX and ZN (nozzle not included)

FJ-LX-MD - FOAMJET-LX Air-aspirating low expansion foam-making attachment with TFT's new quick and easy twist-locking handles for use with all Max-Series and ZN Series Industrial Nozzles. Provides low expansion foam and excellent stream reach. The FOAMJET-LX is constructed of durable ABS, PVC, and aluminum.

FJ-LX-M

6.8 lb (3.1kg)
25.30" (64.3cm)



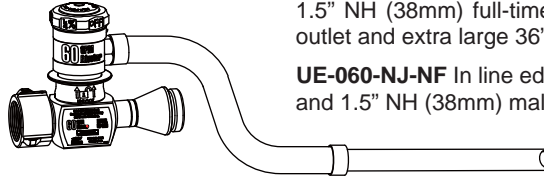
MX-FOAMJET - MASTER (nozzle not included)

FJ-LX-M - FOAMJET-LX - MASTER - Air-aspirating low expansion foam-making attachment for use with all Master Stream 1000, 1250S and the Master Foam series nozzles. Provides low expansion foam and excellent stream reach. The FOAMJET-LX is constructed of durable U.V. stabilized polyethylene, stainless steel, and aluminum.

In line Foam Educators have a metering head with easy-read knob for use with Class A foam at .25% and .5% and with ARC-AFFF foam at 1%, 3% and 6% . Your choice of extra large 36" pickup hose with stainless steel wand or direct truck connect pickup hose are ideal for use with high viscosity foams. The meter head is equipped with a unique back flush push-button for fast cleaning, and is secured to the educator body with a rugged disconnect. All controls are easy to use with gloves. Made of hardcoat anodized aluminum for corrosion protection. The required inlet pressure is 200 psi. The maximum allowable back pressure is 130 psi.

UE-060-NF UE-060-NJ-NF

4.5 lb (2.0kg)
7.80"L x 6.5"H
(19.8cm x 16.6cm)

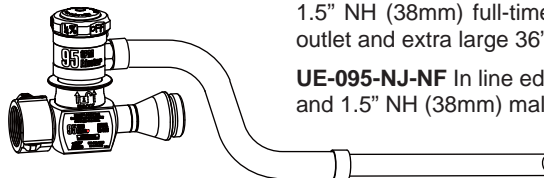


UE-060-NF In line educator 1.5" NH (38mm) - Flow capability is 60 gpm. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 1.5" NH (38mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet and extra large 36" pickup hose with stainless steel wand is standard.

UE-060-NJ-NF In line educator 2.5" NH (65mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet is standard.

UE-095-NF UE-095-NJ-NF

4.5 lb (2.0kg)
7.80"L x 6.5"H
(19.8cm x 16.6cm)

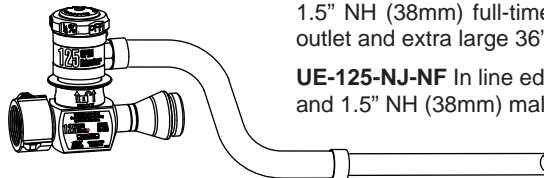


UE-095-NF In line educator 1.5" NH (38mm) - Flow capability is 95 gpm. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 1.5" NH (38mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet and extra large 36" pickup hose with stainless steel wand is standard.

UE-095-NJ-NF In line educator 2.5" NH (65mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet is standard.

UE-125-NF UE-125-NJ-NF

4.5 lb (2.0kg)
7.80"L x 6.5"H
(19.8cm x 16.6cm)

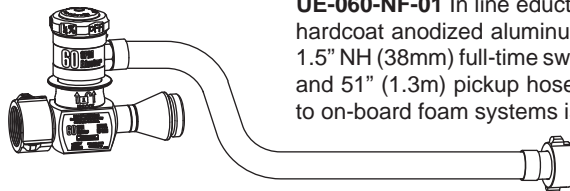


UE-125-NF In line educator 1.5" NH (38mm) - Flow capability is 125 gpm. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 1.5" NH (38mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet and extra large 36" pickup hose with stainless steel wand is standard.

UE-125-NJ-NF In line educator 2.5" NH (65mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet is standard.

UE-060-NF-01

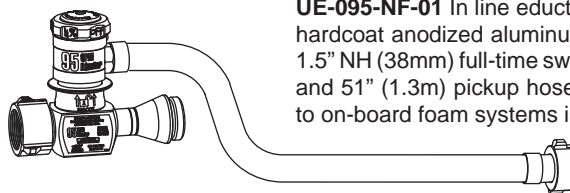
4.5 lb (2.0kg)
7.80"L x 6.5"H
(19.8cm x 16.6cm)



UE-060-NF-01 In line educator 1.5" NH (38mm) - Flow capability is 60 gpm. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 1.5" NH (38mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet and 51" (1.3m) pickup hose with a 1.0"NH (25mm) rocker lug coupling for attachment to on-board foam systems is standard.

UE-095-NF-01

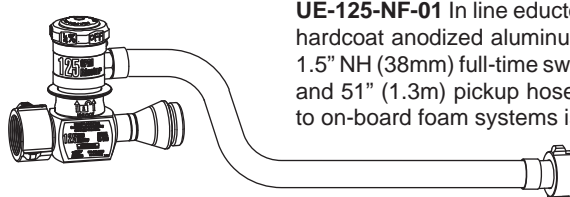
4.5 lb (2.0kg)
7.80"L x 6.5"H
(19.8cm x 16.6cm)



UE-095-NF-01 In line educator 1.5" NH (38mm) - Flow capability is 95 gpm. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 1.5" NH (38mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet and 51" (1.3m) pickup hose with a 1.0"NH (25mm) rocker lug coupling for attachment to on-board foam systems is standard.

UE-125-NF-01

4.5 lb (2.0kg)
7.80"L x 6.5"H
(19.8cm x 16.6cm)



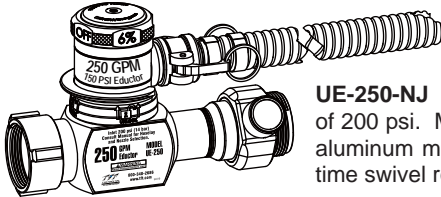
UE-125-NF-01 In line educator 1.5" NH (38mm) - Flow capability is 125 gpm. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 1.5" NH (38mm) full-time swivel rocker lug inlet coupling and 1.5" NH (38mm) male outlet and 51" (1.3m) pickup hose with a 1.0"NH (25mm) rocker lug coupling for attachment to on-board foam systems is standard.

350 EDUCTOR SERIES

250 gpm and 350 gpm in line Foam Eductors have a metering head with easy-read knob for use with Class A foam at .5% and with Class B foam at 1%, 3%, and 6%. Large 8' industrial grade, UV resistant pickup hose is ideal for use with high viscosity foams. The meter head is equipped with a unique backflush push-button for fast cleaning, and is secured to the eductor body with a rugged disconnect. Easy to read Go/NoGo gage on outlet shows back pressure on eductor. All controls are easy to use with gloves. Made of hardcoat anodized aluminum for corrosion protection.

UE-250-NJ UE-250L-NJ

13.0 lb (5.9kg)
13.50" L x 8.5" H
(34.3cm x 21.6cm)

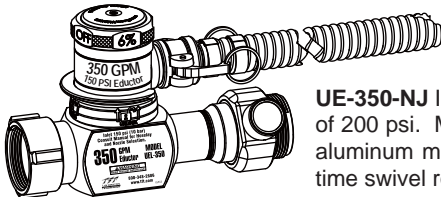


UE-250-NJ In line eductor 2.5"NH (65mm) – Flow capability is 250 gpm with inlet pressure of 200 psi. Maximum allowable back pressure is 130 psi. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 2.5" NH (65mm) full-time swivel rocker lug inlet coupling and 2.5" NH (65mm) rigid male outlet is standard.

UE-250L-NJ In line eductor 2.5"NH (65mm) – Flow capability is 250 gpm with inlet pressure of 150 psi. Maximum allowable back pressure is 80 psi. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 2.5" NH (65mm) full-time swivel rocker lug inlet coupling and 2.5" NH (65mm) rigid male outlet is standard.

UE-350-NJ UE-350L-NJ

13.0 lb (5.9kg)
13.50" L x 8.5" H
(34.3cm x 21.6cm)



UE-350-NJ In line eductor 2.5"NH (65mm) – Flow capability is 350 gpm with inlet pressure of 200 psi. Maximum allowable back pressure is 130 psi. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 2.5" NH (65mm) full-time swivel rocker lug inlet coupling and 2.5" NH (65mm) rigid male outlet is standard.

UE-350L-NJ In line eductor 2.5"NH (65mm) – Flow capability is 350 gpm with inlet pressure of 150 psi. Maximum allowable back pressure is 80 psi. Lightweight hardcoat anodized aluminum material for maximum resistance to corrosion and wear. 2.5" NH (65mm) full-time swivel rocker lug inlet coupling and 2.5" NH (65mm) rigid male outlet is standard.

UE950

3.5 lb (1.6kg)
8.00" (2.4m)



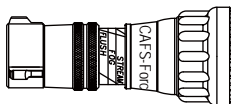
CLEAR PICKUP HOSE – 1.0" (25mm) Cam lock connection on 1.25" x 8' (32mm x 2.4m) long clear hose. Flexible for easy storage.

CAFS Automatic Nozzles

The ONLY automatic nozzle designed specifically for Compressed Air Foam (CAFS) and water applications, CAFS-Force is engineered to provide optimal foam stream performance, as well as offering low pressure nozzle operations when using water alone. HMDC-TO and HDC-TO nozzles shall have a molded rubber bumper with "power fog" teeth, flush without shutting down, reflective labeling shall be standard. and meet NFPA 1964 (2009 edition). The extruded aluminum alloy body shall be hard coat anodized and nozzle shall have an automatic dual-pressure control that may be switched from standard low pressure (water application) to CAFS mode. Nozzles are tip only and require a ball valve to shut off. Nozzle shall have laser engraved serial number and a 5-year warranty.

HMDC-TO

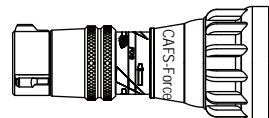
6.6 lb (3.0kg)
16.25" (41.3cm)



HMDC-TO CAFS-Force Nozzle 1.5" NH (38mm) – The ONLY automatic nozzle combination designed specifically for Compressed Air Foam (CAFS) and water applications, CAFS-Force is engineered to provide optimal foam stream performance, as well as offering low pressure nozzle operations when using water alone. The CAFS-Force tip features an automatic dual-pressure control with a water flow capacity of 70-200 gpm that may be switched from standard low pressure (water application) to CAFS mode. 1.5" NH (38mm) rocker lug coupling is standard.

HDC-TO

8.2 lb (3.7kg)
17.25" (43.8cm)

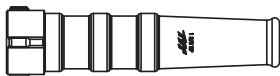


HDC-TO CAFS-Force Nozzle 1.5" NH (38mm) – The ONLY automatic nozzle combination designed specifically for Compressed Air Foam (CAFS) and water applications, CAFS-Force is engineered to provide optimal foam stream performance, as well as offering low pressure nozzle operations when using water alone. The CAFS-Force tip features an automatic dual-pressure control with a water flow capacity of 95-250 gpm that may be switched from standard low pressure (water application) to CAFS mode. 1.5" NH (38mm) rocker lug coupling is standard.

CAFS Straight Tip Nozzles

FSS13-CAFS

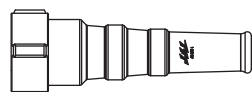
1.7 lb (0.8kg)
10.45" (26.5cm)



FSS13-CAFS STRAIGHT TIP – 1.5"NH (38mm) with smooth taper to 1 3/8" (35mm) tip. This tip is hardcoat anodized and is design for compressed air foam (CAFS) application. The tip is also suitable for use with water. 1.5" (38mm) NH rocker lug full-time swivel coupling inlet standard.

JSS13-CAFS

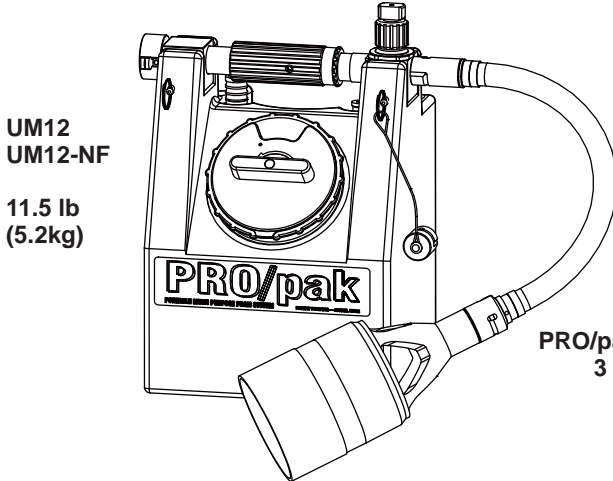
2.2 lb (1.0kg)
10.91" (27.7cm)



JSS13-CAFS STRAIGHT TIP – 2.5"NH (65mm) with smooth taper to 1 3/8" (35mm) tip. This tip is hardcoat anodized and is design for compressed air foam (CAFS) application. The tip is also suitable for use with water. 2.5" (65mm) NH rocker lug full-time swivel coupling inlet standard.

Portable Foam System

Everything you need is contained in one package that attaches to the end of your 1" (25mm) or 1.5" (38mm) fire hose. The PRO/pak has a high impact 2.5 gallon (9.5 l) foam reservoir with a built-in eductor that can be set to the ratio of foam or wetting agents being used. A large, easy-open fill port has an indicator to show the type of liquid in the tank. The flow is controlled by a twist grip valve/carrying handle. Select the discharge velocity that meets your needs for inlet pressures between 40 and 500 psi (3 to 34 bar). The nominal flow is 12 gpm at 100 psi (45 l/min @ 7 bar). A shoulder strap is included for extended operations. The PRO/pak Portable Foam System is supplied with three different quick connect nozzles, a discharge hose and a cap. The straight-stream nozzle gives maximum reach and penetration. The low-expansion nozzle works well with Class A and B foam solutions where reach is more important than expansion ratio. The medium-expansion nozzle produces dense foam that is best for vapor suppression and longevity. Use the PRO/pak when time is critical and you need a small blanket of foam. For example: With one tank of 1% concentrate the PRO/pak can make 15,000 gallons (56,775 l) of finished foam using 250 gallons (946 l) of water in 21 minutes, based on 60:1 expansion from the medium-expansion nozzle. High-impact engineering plastic with metallic components of hardcoat anodized aluminum and stainless steel.



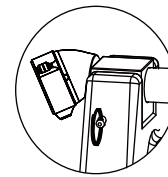
**UM12
UM12-NF**

**11.5 lb
(5.2kg)**

MODEL	COUPLING	THREAD
UM12	1.0" (25mm)	NH
UM12-NF	1.5" (38mm)	NH (Angled Coupling)

Consult factory for BSP threads, metric units, or alternative languages.

**PRO/pak includes 2.7 ft. (82.3cm) hose,
3 nozzles and shoulder strap.
L 14.25" x W 11" x H 18"
(36.2 x 27.9 x 45.7cm)**



**1.5" (38mm)
Angled Coupling**

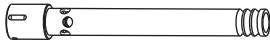
U-SS12



0.1 lb (0.1kg)

U-SS12 STRAIGHT STREAM NOZZLE — for Class A foam solutions. Foam expansion will be negligible. It should be used where maximum reach or penetration is desired.

U-LX12

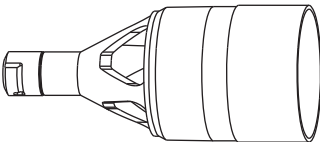


0.4 lb (0.2kg)

U-LX12 LOW EXPANSION NOZZLE — can be used with either Class A or B foam solutions. Reach is slightly less than the straight stream. It should be used on Class B fires for extinguishment and Class A fuels to soak the fuel with a wet foam solution.

U-MX12

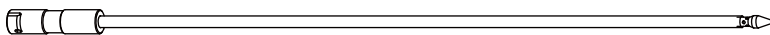
1.0 lb (0.5kg)



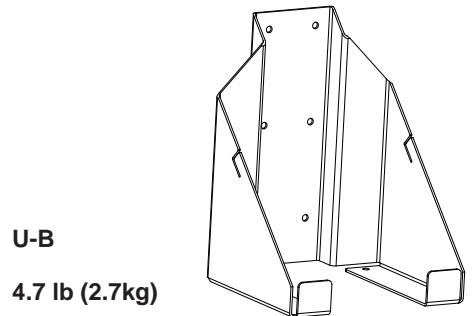
U-MX12 MEDIUM EXPANSION NOZZLE — produces the greatest expansion ratios. It should be used on Class B fuels for vapor suppression and Class A fuels when a longer lasting insulating layer of drier foam is desired.

U-PN12

**3.1 lb (1.4kg)
42" (106.7cm)**



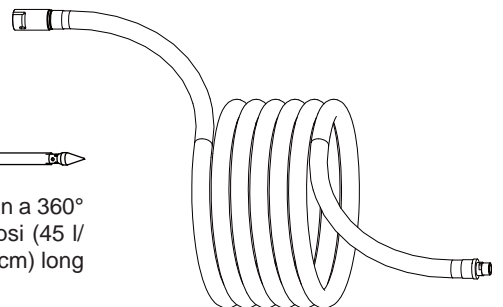
U-PN12 PRO/pak PIERCING NOZZLE — Six jets distribute the flow in a 360° pattern. Foam expansion is negligible. Flow rate is 12 gpm at 100 psi (45 l/min @ 7 bar) inlet pressure to the PRO/pak. The nozzle is 42" (106.7cm) long with a quick-connect coupling.



U-B

4.7 lb (2.7kg)

U-B PRO/pak STORAGE BRACKET — is used to mount to horizontal or vertical surfaces. Adjustable quick release storage strap included. 12" x 11.5" x 14.75" (30.5 x 29.2 x 37.5cm)



U-HS

**0.6 lb (0.3kg)
2.70 ft (0.8m)**

U-HS6

**1.1 lb (0.5kg)
6.00 ft (1.8m)**

U-HS12

**2.0 lb (0.9kg)
12.00 ft (3.7m)**

U-HS25

**3.3 lb (1.5kg)
25.00 ft (7.6m)**

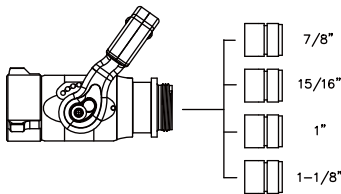
DISCHARGE HOSE — for adding length between the PRO/pak and the nozzle for maneuverability. Maximum distance is 25 feet (7.6m). Quick connect 3/4" (19mm) hose has a 300 psi (21 bar) pressure rating.

1.5" (38mm) & 2.5" (65mm) VIT NOZZLES

TFT's VIT (Valve Integral Tip) Ball Valve series is designed to be the most rugged valve / smooth bore tip combination available while still maintaining a competitively low price. By use of high strength materials, this unique TFT valve / tip combination provides the maximum amount of resistance to wear and corrosion while offering complete fire streams management flexibility. Designed to provide maximum flow and stream quality and versatility when coupled with a high flowing combination nozzle, the VIT series includes four (7/8", 15/16", 1" and 1-1/8") (22mm, 24mm, 25mm and 28mm) field changeable smooth bore tip inserts fit inside the 1-3/8" waterway. Designed for 1.5", 1.75", 2", 2.5", and 3" (38mm, 52mm, 65mm and 75mm) attack lines, the VIT series is engineered to meet your high flow needs.

H-VIT

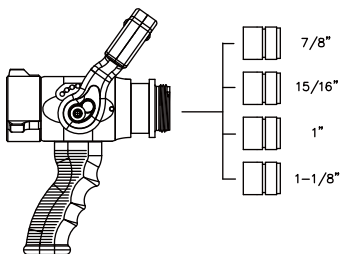
3.3 lb (1.5kg)
7.25" (18.4cm)



H-VIT - VALVE INTEGRAL TIP NOZZLE 1.5" NH (38mm) - Separate ball-type shutoff valve for use with tip only nozzles. Use the valve as a smooth bore with any of the 4 sizes of smooth bore inserts. Six detent flow positions, optional colored handle covers, 1.5" NH (38mm) rocker lug full-time swivel inlet coupling and 1.5" NH (38mm) male outlet standard. All lightweight materials.

H-VITG

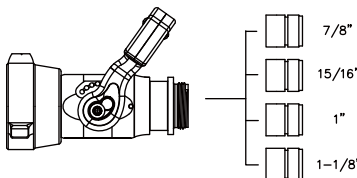
3.6 lb (1.6kg)
7.25" (18.4cm)



H-VITG - VALVE INTEGRAL TIP NOZZLE W/GRIP 1.5" NH (38mm) - Separate ball-type shutoff valve with built-in pistol grip mounted below the valve body for use with tip only nozzles. Use the valve as a smooth bore with any of the 4 sizes of smooth bore inserts. Six detent flow positions, optional colored pistol grip and handle covers, 1.5" NH (38mm) rocker lug full-time swivel inlet coupling, and 1.5" NH (38mm) male outlet standard. All lightweight materials.

H-2VIT

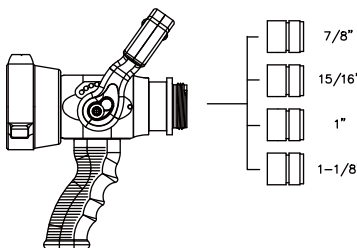
3.9 lb (1.8kg)
7.25" (18.4cm)



H-2VIT - VALVE INTEGRAL TIP NOZZLE 2.5" NH (65mm) - Separate 2.5" (65mm) ball-type shutoff valve for use with tip only nozzles. Use the valve as a smooth bore with any of the 4 sizes of smooth bore inserts. Six detent flow positions, optional colored handle covers, 2.5" NH (65mm) rocker lug full-time swivel inlet coupling and 1.5" NH (38mm) male outlet standard. All lightweight materials.

H-2VITG

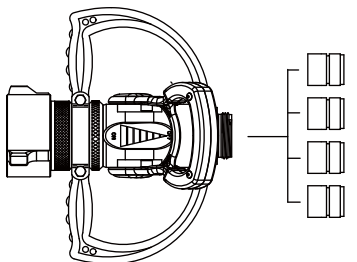
4.2 lb (1.9kg)
7.25" (18.4cm)



H-2VITG - VALVE INTEGRAL TIP NOZZLE W/GRIP 2.5" NH (65mm) - Separate ball-type shutoff valve with built-in pistol grip mounted below the valve body for use with tip only nozzles. Use the valve as a smooth bore with any of the 4 sizes of smooth bore inserts. Six detent flow positions, optional colored pistol grip and handle covers, 2.5" NH (65mm) rocker lug full-time swivel inlet coupling, and 1.5" NH (38mm) male outlet standard. All lightweight materials.

H-2VPPIT

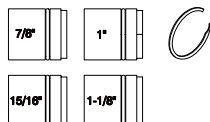
8.5 lb (3.0kg)
9.37" (23.8cm)



H-2VPPIT - VALVE INTEGRAL TIP NOZZLE PLAYPIPE 2.5" NH X 1.5" NH - Valved playpipe with detent flow control. Use the valve as a smooth bore with any of the 4 sizes of smooth bore inserts. Rubber coated easy grip handles are designed to reduce fatigue. Six-position action "click stop" detents ball-type shutoff, optional colored handle covers, 2.5" NH (65mm) rocker lug full-time swivel coupling and 1.5" NH (38mm) male outlet standard. All lightweight materials.

F140SBI

0.2 lb (0.1kg)
1.56" (4.0cm)



F140SBI - SMOOTH BORE INSERT KIT - a compact way to combine a smooth bore, shut off, and fog nozzle. TFT has reduced the weight and length of the total assembly by placing the smooth bore nozzle inside the actual ball valve. Comes standard with 7/8", 15/16", 1.0" and 1-1/8" (22mm, 24mm, 25mm and 28mm) smooth bore inserts. The changeover from one size to another requires no tools. Simply slide the tip out the BACK of the valve and slide in the new size. Fits F140 and J140 series ball valves.

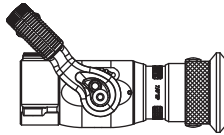
TFT's VIT (Valve Integral Tip) Ball Valve series is designed to be the most rugged valve/smooth bore tip combination available while still maintaining a competitively low price. By using high strength materials, this unique TFT valve/tip combination provides the maximum amount of resistance to wear and corrosion while offering complete fire streams management flexibility. Designed to provide maximum flow, stream quality, and versatility when coupled with a high flowing combination nozzle, the VIT series can also be used as a smooth bore nozzle. A thread protector covers the 1.5" NH outlet threads when VIT is being used as a smooth bore nozzle, and slides back to a hold position to allow for easy attachment of a nozzle or hose line. Designed for 1.5", 1.75", 2", 2.5", and 3" (38mm, 52mm, 65mm, and 75mm) attack lines, the VIT series is engineered to meet your high flow needs.

SAMPLE PART NUMBER

Specify actual number from chart below.

HVIT11

3.8 lb (1.7kg)
9.26" (23.5cm)



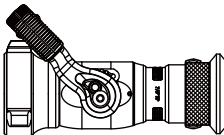
HVIT1* – VALVE INTEGRAL TIP NOZZLE 1.5" NH (38mm) – Separate ball-type shutoff valve for use with tip only nozzles. Use the valve as a smooth bore at the selected outlet diameter. Six detent flow positions. Colored handle covers available. 1.5" NH (38mm) rocker lug full-time swivel inlet coupling and 1.5" NH (38mm) male outlet standard. All lightweight materials are used.

SAMPLE PART NUMBER

Specify actual number from chart below.

HVIT21

4.2 lb (1.9kg)
9.41" (23.9cm)



HVIT2* – VALVE INTEGRAL TIP NOZZLE 2.5" NH (38mm) – Separate ball-type shutoff valve for use with tip only nozzles. Use the valve as a smooth bore at the selected outlet diameter. Six detent flow positions. Colored handle covers available. 2.5" NH (65mm) rocker lug full-time swivel inlet coupling and 1.5" NH (38mm) male outlet standard. All lightweight materials are used.

Choose desired outlet diameter and coupling size from chart.

For assistance in ordering, please call 1-800-348-2686 to speak with a nozzle specialist.

HVIT

For example Model **HVIT22** is 2.5" NH female thread inlet with a 15/16" diameter outlet nozzle.

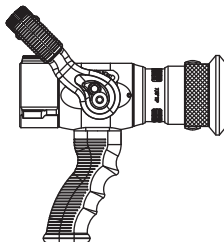
WITHOUT PISTOL GRIP		SMOOTHBORE OUTLET DIAMETER					
		7/8"	15/16"	1.0"	1-1/8"	1-1/4"	1-3/8"
THREADED INLET DIAMETER	1.5" NH	11	12	13	14	15	16
	2.5" NH	21	22	23	24	25	26

SAMPLE PART NUMBER

Specify actual number from chart below.

HVITG11

4.1 lb (1.8kg)
9.26" (23.5cm)



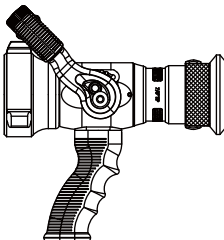
HVITG1* – VALVE INTEGRAL TIP NOZZLE W/GRIP 1.5" NH (38mm) – Separate ball-type shutoff valve with built-in pistol grip mounted below valve body for use with tip only nozzles. Use the valve as a smooth bore at the selected outlet diameter. Six detent flow positions. Colored pistol grip and handle covers available. 1.5" NH (38mm) rocker lug full-time swivel inlet coupling and 1.5" NH (38mm) male outlet standard. All lightweight materials are used.

SAMPLE PART NUMBER

Specify actual number from chart below.

HVITG21

4.5 lb (2.0kg)
9.41" (23.9cm)



HVITG2* – VALVE INTEGRAL TIP NOZZLE W/GRIP 2.5" NH (38mm) – Separate ball-type shutoff valve with built-in pistol grip mounted below valve body for use with tip only nozzles. Use the valve as a smooth bore at the selected outlet diameter. Six detent flow positions. Colored pistol grip and handle covers available. 2.5" NH (65mm) rocker lug full-time swivel inlet coupling and 1.5" NH (38mm) male outlet standard. All lightweight materials are used.

Choose desired outlet diameter and coupling size from chart.

For assistance in ordering, please call 1-800-348-2686 to speak with a nozzle specialist.

HVITG

Model **HVITG14** is a 1.5" NH female thread inlet, 1-1/8" diameter outlet nozzle with a pistol grip.

WITH PISTOL GRIP		SMOOTHBORE OUTLET DIAMETER					
		7/8"	15/16"	1.0"	1-1/8"	1-1/4"	1-3/8"
THREADED INLET DIAMETER	1.5" NH	11	12	13	14	15	16
	2.5" NH	21	22	23	24	25	26

See Page 153 for additional or replacement outlets.

1" (25mm) & 1.5" (38mm) ACCESSORIES

D75D

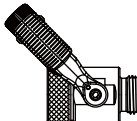
1.0 lb (0.5kg)
3.75" (9.6cm)



D75D - BALL VALVE 1.0" NH X 1.0" NH (25mm x 25mm) - Ball Valve with an unobstructed 3/4" (19mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Optional color coded handle covers available. 1" NH (25mm) rocker lug swivel inlet, and 1" NH (25mm) male outlet standard.

D75DR

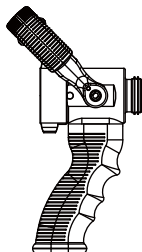
0.9 lb (0.4kg)
3.75" (9.6cm)



D75DR - RIGID BALL VALVE 1.0" NH X 1.0" NH (25mm x 25mm) - Ball Valve with an unobstructed 3/4" (19mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Optional color coded handle covers available. 1" NH (25mm) rigid base inlet, and 1" NH (25mm) male outlet standard. NPSH is available.

D75DP

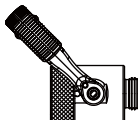
1.3 lb (0.6kg)
3.75" (9.6cm)



D75DP - VALVE W/GRIP 1.0" NH X 1.0" NH (25mm x 25mm) - Ball Valve with an unobstructed 3/4" (19mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Optional color coded pistol grip and handle covers available. 1" NH (25mm) rocker lug swivel inlet and 1" NH (25mm) male outlet standard.

D100D

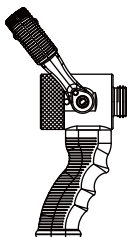
1.4 lb (0.6kg)
3.80" (9.7cm)



D100D - BALL VALVE 1.0" NH X 1.0" NH (25mm x 25mm) - Ball Valve with an unobstructed 1" (25mm) waterway. All lightweight materials, hardcoat anodized aluminum. Changeable rear valve seat and stainless steel shut-off ball. Optional color coded handle covers available. 1" NH (25mm) knurled swivel inlet, and 1" NH (25mm) male outlet standard.

D100DP

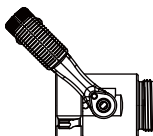
1.7 lb (0.8kg)
3.80" (9.7cm)



D100DP - VALVE W/GRIP 1.0" NH X 1.0" NH (25mm x 25mm) - Ball Valve with an unobstructed 1" (25mm) waterway. All lightweight materials, hardcoat anodized aluminum. Changeable rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Optional color coded pistol grip and handle covers available. 1" NH (25mm) knurled swivel inlet, and 1" NH (25mm) male outlet standard.

F100F

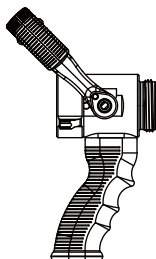
1.5 lb (0.7kg)
3.75" (9.6cm)



F100F - BALL VALVE 1.5" NH X 1.5" NH (38mm x 38mm) - Ball Valve with an unobstructed 1" (25mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Optional color coded handle covers available. 1.5" NH (38mm) rocker lug swivel inlet, and 1.5" NH (38mm) male outlet standard.

F100FP

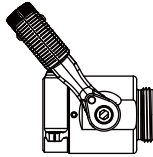
1.7 lb (0.8kg)
3.75" (9.6cm)



F100FP - VALVE W/GRIP 1.5" NH x 1.5" NH (38mm x 38mm) - Ball Valve with an unobstructed 1" waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Optional color coded pistol grip and handle covers available. 1.5" NH (38mm) rocker lug swivel inlet, and 1.5" NH (38mm) male outlet standard.

F140F

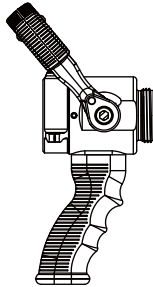
2.2 lb (1.0kg)
4.00" (10.2cm)



F140F - BALL VALVE 1.5" NH x 1.5" NH (38mm x 38mm) - Ball Valve with an unobstructed 1-3/8" (35mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Optional color coded handle covers available. 1.5" NH (38mm) rocker lug swivel inlet, and 1.5" NH (38mm) male outlet standard. Accepts F140SBI smooth bore insert kit found on page 46.

F140FP

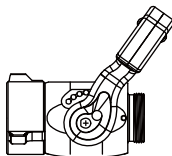
2.4 lb (1.1kg)
4.00" (10.2cm)



F140FP - VALVE W/GRIP 1.5" NH X 1.5" NH (38mm x 38mm) - Ball Valve with an unobstructed 1-3/8" (35mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Optional color coded pistol grip and handle covers available. 1.5" NH (38mm) rocker lug swivel inlet, and 1.5" NH (38mm) male outlet standard. Accepts F140SBI smooth bore insert kit found on page 46.

H-VO

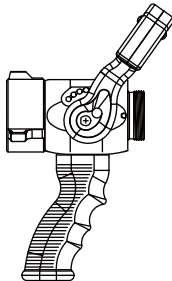
2.6 lb (1.3kg)
5.25" (13.3cm)



H-VO DETENT VALVE 1.5" NH X 1.5" NH (38mm x 38mm) - Separate ball-type shutoff valve with a 1-3/8" (35mm) waterway for use with tip only nozzles. Includes six detent flow positions. Colored handle covers available. 1.5" (38mm) NH rocker lug full-time swivel coupling, and 1.5" (38mm) NH male outlet standard. All lightweight materials.

H-VOI

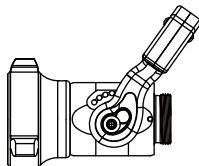
3.3 lb (1.3kg)
5.25" (13.3cm)



H-VOI DETENT VALVE W/GRIP 1.5" NH x 1.5" NH (38mm x 38mm) - Separate ball-type shutoff valve with a 1-3/8" (35mm) waterway and a built-in pistol grip mounted below the valve body for use with tip only nozzles. Six detent flow positions, optional colored pistol grip and handle covers, 1.5" (38mm) NH rocker lug full-time swivel coupling, and 1.5" (38mm) NH male outlet standard. All lightweight materials.

H-2VO

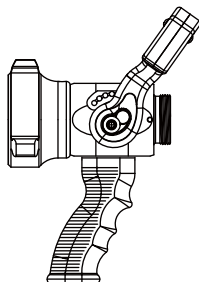
2.6 lb (1.3kg)
5.25" (13.3cm)



H-2VO DETENT VALVE 2.5" NH X 1.5" NH (65mm x 38mm) - Separate ball-type shutoff valve with a 1-3/8" (35mm) waterway for use with tip only nozzles. Includes six detent flow positions. Colored handle covers available. 2.5" (65mm) NH rocker lug full-time swivel coupling, and 1.5" (38mm) NH male outlet standard. All lightweight materials.

H-2VOI

3.3 lb (1.3kg)
5.25" (13.3cm)

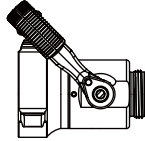


H-2VOI DETENT VALVE W/GRIP 2.5" NH x 1.5" NH (65mm x 38mm) - Separate ball-type shutoff valve with a 1-3/8" (35mm) waterway and a built-in pistol grip mounted below the valve body for use with tip only nozzles. Six detent flow positions, optional colored pistol grip and handle covers, 2.5" (65mm) NH rocker lug full-time swivel coupling, and 1.5" (38mm) NH male outlet standard. All lightweight materials.

1.5" (38mm) & 2.5" (65mm) ACCESSORIES

J140F

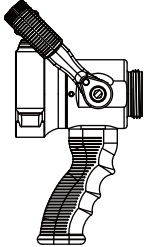
2.7 lb (1.2kg)
5.00" (12.7cm)



J140F - BALL VALVE 2.5" NH X 1.5" NH (65mm x 38mm) - Ball Valve with an unobstructed 1-3/8" (35mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Rocker lug 2.5" NH (65mm) full-time swivel inlet, and 1.5" NH (38mm) male outlet standard. Accepts F140SBI smooth bore insert kit found on page 46.

J140FP

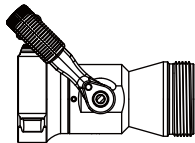
2.9 lb (1.3kg)
5.00" (12.7cm)



J140FP - VALVE W/GRIP 2.5" NH X 1.5" NH (65mm x 38mm) - Ball Valve with an unobstructed 1-3/8" (35mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Optional color coded pistol grip and handle covers available. Rocker lug 2.5" NH (65mm) full-time swivel inlet, and 1.5" NH (38mm) male outlet standard. Accepts F140SBI smooth bore insert kit found on page 46.

J140J

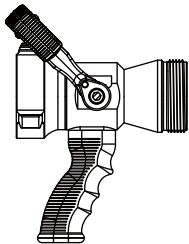
3.4 lb (1.5kg)
7.18" (18.3cm)



J140J - BALL VALVE 2.5" NH X 2.5" NH (65mm x 65mm) - Ball Valve with an unobstructed 1-3/8" (35mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Rocker lug 2.5" NH (65mm) full-time swivel inlet, and 2.5" NH (65mm) male outlet standard. Accepts F140SBI smooth bore insert kit found on page 46.

J140JP

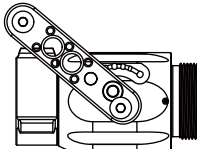
3.7 lb (1.7kg)
7.18" (18.3cm)



J140JP - VALVE W/GRIP 2.5" NH X 2.5" NH (65mmx65mm) - Ball Valve with an unobstructed 1-3/8" (35mm) waterway. All lightweight materials, hardcoat anodized aluminum. Quick-change rear valve seat and stainless steel shut-off ball. Pistol grip is mounted below the valve. Optional color coded pistol grip and handle covers available. Rocker lug 2.5" (65mm) NH full-time swivel inlet, 2.5" (65mm) NH male outlet is standard. Accepts F140SBI smooth bore insert kit found on page 46.

H-3VONJ-NJ

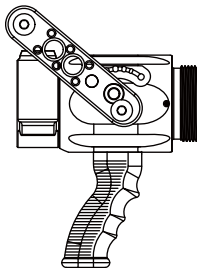
5.7 lb (2.6kg)
7.18" (19.8cm)



H-3VONJ-NJ DETENT VALVE 2.5"NH x 2.5"NH (65mm x 65mm) - Separate ball-type shutoff valve with 2" (50mm) waterway for use with tip only nozzles. Includes six detent flow positions, 2.5" (65mm) NH rocker lug full-time swivel coupling, and 2.5" (65mm) NH male outlet standard. All lightweight materials.

H-3VOINJ-NJ

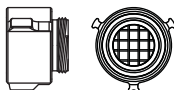
5.9 lb (2.7kg)
7.18" (19.8cm)



H-3VOINJ-NJ DETENT VALVE W/GRIP 2.5"NH x 2.5"NH (65mm x 65mm) - Separate ball-type shutoff valve with 2" (50mm) waterway and a built-in pistol grip mounted below the valve body for use with tip only nozzles. Includes six detent flow positions. 2.5" (65mm) NH rocker lug full-time swivel coupling, and 2.5" (65mm) NH male outlet standard. All lightweight materials.

H-GG

0.8 lb (0.3kg)
2.20" (5.6cm)



H-GG IN LINE GASKET GRABBER - 1.5" NH X 1.5" NH - Hardcoat anodized aluminum body with stainless steel "Gasket Grabber". Providing debris protection for any item with a 1.5" NH inlet.

H-SS

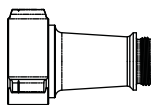
0.6 lb - 1.87"
(0.3kg - 4.8cm)



H-SS 1.5" STREAM STRAIGHTENER - 1.5" NH F X 1.5" NH M (38mm x 38mm) - Straighten streams to provide greater reach with less turbulence.

JSST10

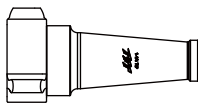
1.8 lb (0.7kg)
5.90" (14.9cm)



JSST10 STRAIGHT TIP 1.125 BORE X 2.5" FEMALE INLET with smooth inside taper to 1.5" (38mm) threaded male outlet. 2.5" (65mm) NH rocker lug full-time swivel coupling inlet standard. All lightweight materials.

JSS11

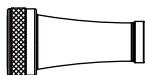
1.8 lb (0.7kg)
7.93" (20.1cm)



JSS11 STRAIGHT TIP - 2.5" NH (65mm) INLET with smooth inside taper to 1 1/4" (32mm) tip. This lightweight tip is hardcoat anodized and has easy to read pressure/flow charts laser engraved. 2.5" (65mm) NH rocker lug full-time swivel coupling inlet standard. All lightweight materials.

SEE CHART

0.4-0.7 lb
(0.2-0.3kg)
4-3/16" - 5"
(10.6-12.7cm)

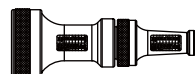


FSS - STRAIGHT TIP - with smooth inside taper. 1.5" NH (38mm) thread is standard. *Please specify model # and orifice when ordering.

Model #	ORIFICE	Model #	ORIFICE	Model #	ORIFICE	Model #	ORIFICE
FSS5	1/2" (12mm)	FSS7	3/4" (19mm)	FSS9	1" (25mm)	FSS11	1-1/4" (32mm)
FSS6	5/8" (16mm)	FSS8	7/8" (22mm)	FSS10	1-1/8" (28mm)	FSS12	15/16" (24mm)

FSNYSTACK

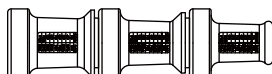
0.8 lb (0.4kg)
6.62" (16.9cm)



FSNYSTACK - NEW YORK STACK TIP - 1.5" NH INLET - 15/16" (24mm) and 1/2" (12mm) Dual stacked tips. Base tip has a 15/16" (24mm) bore with 1.5" (38mm) NH female thread inlet. Top tip has a 1/2" (13mm) bore with male threads. Base tip outlet has female threads for durability. Easy to read pressure/flow charts are laser engraved. 1.5" NH (38mm) inlet thread is standard.

FS-3STACK

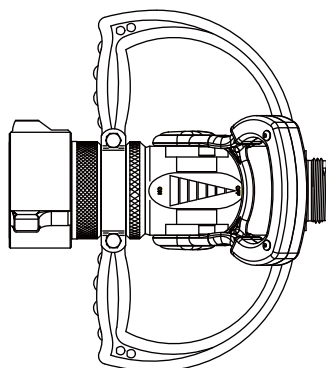
1.3 lb (0.6kg)
10.50" (26.7cm)



FS-3STACK - NFPA STACKED TIPS 1.5" (38mm) INLET - These lightweight tips are hardcoat anodized, and have pressure/flow charts laser engraved on each tip. Orifice openings are 1-1/4, 1-1/8", and 1" (32mm, 28mm and 25mm). Use with valved playpipe H-2VPP for compliance with NFPA 1901 equipment requirements. Each tip is threaded 1.5" NH (38mm).

H-2VPP

6.1 lb (2.8kg)
9.37" (23.9cm)



H-2VPP - PLAYPIPE W/VALVE 2.5" NH F X 1.5" NH M - (65mm x 38mm) Valved playpipe with detent flow control, six position, positive action "click stop" detents, ball-type shutoff, and optional color coded handle covers. Rubber-coated, easy grip handles are designed to reduce fatigue. 2.5" (65mm) NH rocker lug full-time swivel inlet coupling, 1.5" (38mm) NH male outlet is standard. Use with FS-3STACK stack tip set for compliance with NFPA 1901 equipment requirements.

H-2PP

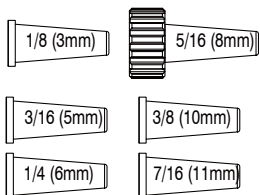
(not shown)

5.1 lb (2.3kg)
9.00" (23.9cm)

H-2PP - PLAYPIPE 2.5" NH F X 1.5" NH M (65mm x 38mm) (not shown) - Playpipe for use with hose coupled 2.5" (65mm). Rubber-coated, easy-grip handles are designed to reduce fatigue. No shutoff valve. Must be used with a nozzle with a shutoff valve. 2.5" (65mm) NH rocker lug full-time swivel inlet coupling and 1.5" (38mm) NH male outlet are standard.

DSB

0.4 lb (0.2kg)
3.37" (8.6cm)



DSB - 1" NH SMOOTH BORE SET (25mm) - 1" (25mm) smooth bore insert "Six Pack" contains 6 smooth bore inserts (1/8", 3/16", 1/4", 5/16", 3/8", & 7/16" orifice sizes) (3, 5, 6, 8, 10 & 11mm) and an NH threaded coupling with gasket. The Six Pack allows you to change smooth bore orifice sizes by simply removing and replacing a rubber gasket from a hardcoat anodized aluminum coupling. There are 6 different orifice sizes included with each order. These inserts can be easily interchanged depending on the situation. The inserts are made from a lightweight and durable black nylon. 1" NH (25mm) thread is standard.

F15G200 F15G300

1.5 lb (0.7kg)
3.75" (9.6cm)

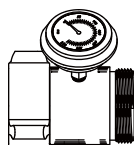


F15G200 - LINE PRESSURE GAUGE 1.5" NH (38mm) - Pitot-type, liquid-filled 0-200 psi (0-14 bar) gauge is ideal for testing and training purposes. Gauge has protective ring to resist damage. Swivel inlet coupling. 1.5" NH (38mm) thread is standard.

F15G300 - LINE PRESSURE GAUGE 1.5" NH (38mm) - Same as F15G200 with liquid-filled 0-300 psi (0-21 bar) gauge.

J25G200 J25G300

2.2 lb (1.0kg)
5.50" (14.0cm)



J25G200 - LINE PRESSURE GAUGE 2.5" NH (65mm) - Pitot-type, liquid-filled 0-200 psi (0-14 bar) gauge is ideal for testing and training purposes. Gauge has protective ring to resist damage. Swivel inlet coupling. 2.5" NH (65mm) thread is standard.

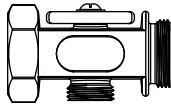
J25G300 - LINE PRESSURE GAUGE 2.5" NH (65mm) - Same as J25G200 above with liquid-filled 0-300 psi (0-21 bar) gauge.

Forestry Tee Valves, In-Line Valves and Gated Wyes

TEE VALVE has a hard coat anodized cast aluminum body with 1.5" (38mm) threads and 1.0" (25mm) branch outlet. The valve stem has a durable nylon handle. The 2.5" (6.4cm) hexagon body is 4.75" (12.1cm) long.

AT*-*

1.0 lb (0.5kg)
4.75" (12.1cm)



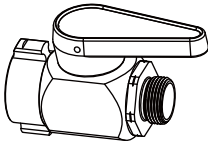
AT INLET/OUTLET	TEE VALVE BRANCH	
	1.0" NH (25mm)	1.0" NPSH (25mm)
1.5" NH (38mm)	ATNF-ND	ATNF-ID
1.5" NPSH (38mm)	ATIF-ND	ATIF-ID

IN-LINE VALVE has an aluminum body with 1" (25mm) ball type valve and optional long or short nylon valve handles. Hardcoat anodized finish. Inlet and outlet thread choices are listed in charts below for model numbers. 4" (10.2cm) long by 2.25" (5.7cm) wide, excluding handles. Contact TFT for NPSH threads 1-800-348-2686.

AVL*-*

(long handle)

1.4 lb (0.6kg)
4.00" (10.2cm)

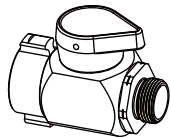


AVL INLET	LONG HANDLE IN-LINE VALVE OUTLET	
	1.0" NH (25mm)	1.5" NH (38mm)
1.0" NH (25mm)	AVLND-ND	
1.5" NH (38mm)	AVLNF-ND	AVLNF-NF

AVS*-*

(short handle)

1.4 lb (0.6kg)
4.00" (10.2cm)



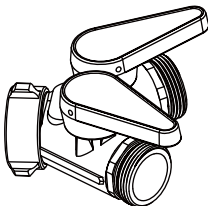
AVS INLET	SHORT HANDLE IN-LINE VALVE OUTLET	
	1.0" NH (25mm)	1.5" NH (38mm)
1.0" NH (25mm)	AVSND-ND	
1.5" NH (38mm)	AVSNF-ND	AVSNF-NF

FORESTRY GATED WYE has a cast aluminum body with 1" (25mm) ball type valves and optional long or short nylon valve handles. Hardcoat anodized finish. Inlet and outlet threads are available in various combinations of 1" & 1.5" NH and NPSH. Pressure tested to 1000 psi (70 bar) and is 5" (12.7cm) long by 5.5" (14cm) wide, excluding handles. See charts below for model numbers. **Contact TFT for NPSH threads 1-800-348-2686.**

AYL*-*

(long handle)

2.2 lb (1.0kg)
5.00" (12.7cm)

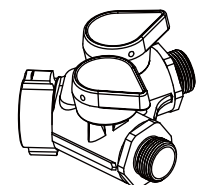


AYL INLET	LONG HANDLE FORESTRY GATED WYE OUTLET	
	1.0" NH (25mm)	1.5" NH (38mm)
1.0" NH (25mm)	AYLND-ND	AYLND-NF
1.5" NH (38mm)	AYLNF-ND	AYLNF-NF

AYS*-*

(short handle)

2.2 lb (1.0kg)
5.00" (12.7cm)

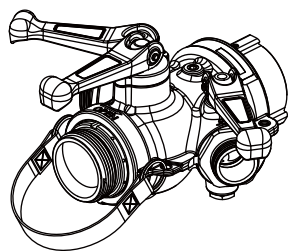


AYS INLET	SHORT HANDLE FORESTRY GATED WYE OUTLET	
	1.0" NH (25mm)	1.5" NH (38mm)
1.0" NH (25mm)	AYSND-ND	
1.5" NH (38mm)	AYSNF-ND	AYSNF-NF

TFT's 2.5" by 1.5" Water Thief is a lightweight valve with full 2.5" and 1.5" waterways. 250 psi (17 bar) operating pressure from either side of the valves. Field replaceable valve seats. Quarter turn valve handles with low force to move even under pressure. Automatic valve lock on the 2.5" valve keeps its position while flowing at partial openings. Special internal contour on the 1.5" valves keeps them in position while flowing. Folding valve handles minimize storage space. Pipe threaded port for pressure gauge. Carrying strap assists in carrying and dragging hose. Aluminum casting is hardcoat anodized and silver TFT-powdercoat finish inside and out for maximum corrosion protection.

WT5NJ-NJ-NF

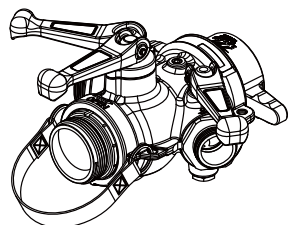
10.0 lbs (4.5 kg)
6.90"H x 8.00"W x 10.50"L
(18.0 x 25.0 x 27.0 cm)



WT5NJ-NJ-NF - WATER THIEF 2.5" (65mm) NHF X 2.5" (65mm) NHM DUAL 1.5" (38mm) NHM SIDE PORTS - Quarter-turn aluminum ball valves provide a positive shutoff. Full flow 2.5" (65mm) and 1.5" (38mm) waterways provide maximum flow with minimal loss. Rugged lightweight aluminium alloy casting with durable powder coat finish inside and out, anodized couplings, super tough nylon folding handles and built in carrying strap. 2.5" (65mm) NH female swivel rocker lug inlet coupling is standard.

WT5HNJ-NJ-NF

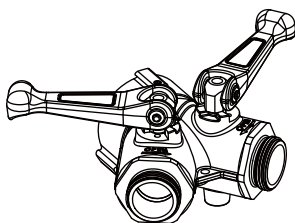
10.7 lbs (4.9 kg)
6.90"H x 9.80"W x 10.50"L
(18.0 x 25.0 x 27.0 cm)



WT5HNJ-NJ-NF - WATER THIEF 2.5" (65mm) NHF X 2.5" (65mm) NHM DUAL 1.5" (38mm) NHM SIDE PORTS - Quarter-turn aluminum ball valves provide a positive shutoff. Full flow 2.5" (65mm) and 1.5" (38mm) waterways provide maximum flow with minimal loss. Rugged lightweight aluminium alloy casting with durable powder coat finish inside and out, anodized couplings, super tough nylon folding handles and built in carrying strap. 2.5" (65mm) NH female swivel long handle inlet coupling is standard.

AYNJ-NF

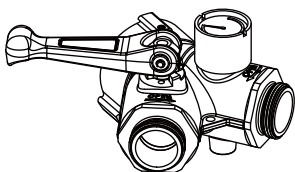
4.9 lb (2.2kg)
6.00" x 6.75"
(15.2 x 17.1cm)



AYNJ-NF - GATED WYE 2.5" NH X 1.5" NH (65mm x 38mm) OUTLETS - 2.5" (65mm) female swivel inlet x two 1.5" (38mm) male outlets. Quarter-turn aluminum ball valves provide a positive shutoff. Full flow 1.5" (38mm) ball waterway. Rugged lightweight aluminum alloy casting with durable powder coat finish inside and out, anodized couplings, and super tough nylon folding handles. NH thread is standard. 2.5" NH female swivel rocker lug inlet coupling.

AYG-NJ-NF

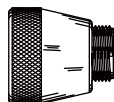
3.9 lb (1.8kg)
6.00" x 6-3/4"
(15.2 x 17.1cm)



AYG-NJ-NF - STANDPIPE WYE 2.5" NH X 1.5" NH (65mm X 38mm) - 2.5" (65mm) female swivel inlet x two 1.5" (38mm) male outlets. This wye is intended for use in high rise packs. One branch of the wye connects to the hose in the pack. The other branch has a quarter-turn aluminum ball valve for positive shutoff. A pressure gauge is mounted on top of the wye. Rugged, lightweight aluminum alloy casting with durable powder coat finish inside and out, anodized couplings and super tough folding nylon handles. 2.5" NH female rocker lug swivel inlet coupling is standard.

H-A

1.1 lb - 3.75"
(0.5kg - 9.6cm)



H-A - ADAPTER 2.5" NH F X 1.5" NH M (65mm x 38mm) - Internal flow path is specially shaped to reduce friction loss and turbulence when reducing 2.5" (65mm) lines to 1.5" (38mm). Can be used with any 1.5" (38mm) nozzle/valve combination on 2.5" (65mm) hose.

B-A

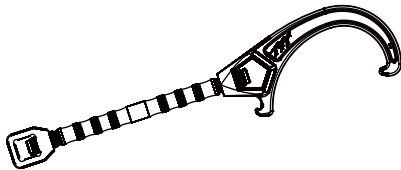
0.8 lb - 3.37"
(0.4kg - 8.6cm)



B-A - ADAPTER 1.5" NH F X 1.0 NH M (38mm x 25mm) - hose thread adapter. Allows use of 1" (25mm) nozzles on 1.5" (38mm) hose. (Common in forestry applications.)

A3800

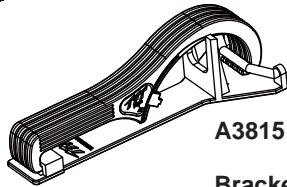
2.5 lb (1.1kg)
24.20" (61.5cm)



A3800 - ADJUSTABLE HYDRANT WRENCH - Adjustable to open any hydrant with pentagon and square heads. Features dual spanner claws that can be used on virtually any Storz, rocker lug or long handled fire hose coupling from 1" (25mm) up to 6" (152mm) diameter. Made out of aluminum alloy throughout. Rugged handle grip is hardcoat anodized and permanently secured to both wrench ends.

A3810

6.1 lb (2.8kg)
(1.1 lb ea)
(0.5kg)
16.20" (41.1cm)



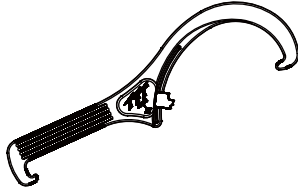
A3815

Bracket Only

A3810 - JUMBO SPANNER SET W/BACKET - Lightweight cast aluminum alloy design features dual spanner claws that can be used on virtually any Storz, rocker lug or long handled fire hose couplings from 1" (25mm) up to 6" (152mm) diameter. Adjustable lug releases Storz-Lock levers on most Storz couplings. Includes four A3090 wrenches and one A3815 bracket for easy truck mounting. Compatible with former A3812 Single Spanner.

A3090

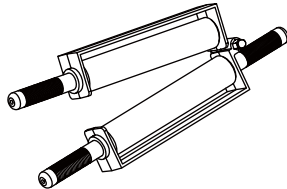
1.1 lb (0.5kg)
16.20" (41.1cm)



A3090 - Single Jumbo Spanner - Lightweight cast aluminum alloy design features dual spanner claws that can be used on virtually any Storz, rocker lug or long handled fire hose couplings from 1" (25mm) up to 6" (152mm) diameter. Adjustable lug releases Storz-Lock levers on most Storz couplings.

A3820

5.0 lb (2.3kg)
19.00" (48.3cm)

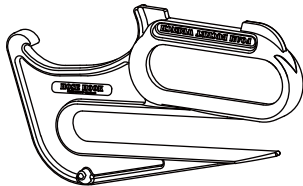


A3820 - HOSE ROLLER - For fast, easy removal of air and water from hose, "walk" the hose through the hose roller before reloading. Made of all lightweight materials.

HOSE HOOK™

HH12
(Box of 12)

Each
0.5 lb (0.2 kg)
10.00" (25.0 cm)



The Hose Hook is an innovative patent pending multi-purpose tool that acts as a handle for carrying hose rolls. Works with up to 5 inch hose. Fits in a standard turnout gear pocket. Has integral wrench for use on up to 2 1/2 inch rocker lug couplings and most 4" (100 mm) and 5" (125 mm) Storz couplings. Also contains a wrench for foam bucket lids. Rounded shape in hook area allows for draining by hooking and walking along hose length. Can also be placed over hinges to hold doors open. Provides a convenient handle for anything that can be hooked and pulled, like SCBA. Molded from a lightweight and durable nylon. Each Hose Hook comes with a bracket for apparatus mounting.

RES-Q-RENCH®

When space is limited, but performance is an absolute must, the folding Res-Q-Rench is ideal for many fire ground and rescue operations. From simple hose coupling functions, to working with patient entrapment, the Res-Q-Rench is the ultimate tool. Ideal for all firefighting personnel, rescue squads, medical service providers, and industrial fire brigades. The patented Res-Q-Rench is available from your local authorized TFT distributor.

Personalized custom laser engraving is available.



Each
0.3 lb (0.1kg)
8.25 - 12.38"
(21.0-31.4cm)

SPAN25
(Box of 25)

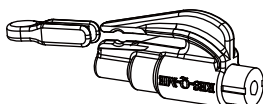
8.7 lbs (3.9kg)

The Res-Q-Rench is designed to work with rocker lug handline and supply line couplings and is the only folding spanner that will work with most 4" (100mm) and 5" (125mm) Storz locking couplings. With its integrated carbide tip window punch, the Res-Q-Rench can quickly pop out windows during vehicle extrication. The heavy-duty seat belt cutter makes short work of vehicle seat belts and other web materials. The Res-Q-Rench easily pries open windows, props doors open, has an integrated residential gas valve shut-off and oxygen bottle wrench.

RES-Q-ME®

The RES-Q-ME from Task Force Tips is a small versatile tool that can save your life! This patented device is intended to be placed with your car keys. It contains a spring loaded tool steel pin that will break any tempered glass window and a stainless steel blade for cutting seat belts. The break apart design allows the RES-Q-ME to be quickly removed from its storage location without removing the keys from the ignition. The RES-Q-ME is easily carried on a key ring or can be attached to different places in your vehicle.

RQM100
RQM100-BLK
(Box of 100)



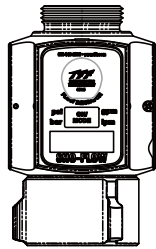
Res-Q-Me is designed to work in emergency situations. With its integrated tool steel window punch, the Res-Q-Me can quickly pop out windows allowing you to extricate yourself from a vehicle. The heavy-duty seat belt cutter makes short work of vehicle seat belts and other web materials. Standard color is yellow, optional color is black.

7.0 lbs (3.2kg)

SHO-FLOW® electronic flow indicator includes a digital display of pressure and flow in one unit. Rugged lightweight machined aluminum body to withstand rough use. Can be installed behind a nozzle, at pump panel, or anywhere flow or pressure indication is required. Powered by a 9-volt lithium battery for long life and good cold temperature operation. The 1.5" version has user programmable high-flow and low-flow set points to warn operator of improper water flows. BSP and NPSH threads also available.

SF-NF-NF-125
SF-NF-NF-200
SF-NF-NF-300

2.5 lb (1.1kg)
5.80" x 3.60" x 3.00"
(14.7 x 9.0 x 7.6 cm)



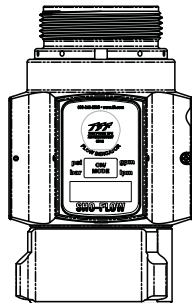
SF-NF-NF-125 - SHO-FLOW® ELECTRONIC FLOW INDICATOR – 1.5" NH female swivel inlet x 1.5" NH male outlet (38mm x 38mm) with a flow range of 30-125 GPM digital display of pressure and flow in one unit. Rugged lightweight machined aluminum body to withstand rough use. Powered by a 9-volt lithium battery for long life and good cold temperature operation. User programmed high-flow and low-flow set points to warn operator of improper water flow.

SF-NF-NF-200 - SHO-FLOW® ELECTRONIC FLOW INDICATOR – Same as SF-NF-NF-125 with a flow range of 50-200 GPM.

SF-NF-NF-300 - SHO-FLOW® ELECTRONIC FLOW INDICATOR – Same as SF-NF-NF-125 with a flow range of 70-300 GPM.

SF-NJNJ-500
SF-NJNJ-1250

4.1 lb (1.9kg)
7.50" x 4.60" x 4.00"
(19.1 x 11.7 x 10.2 cm)



SF-NJNJ-500 - SHO-FLOW® ELECTRONIC FLOW INDICATOR – Same as SF-NF-NF-125 with 2.5" NH female swivel inlet x 2.5" NH male outlet and a flow range of 125-500 GPM.

SF-NJNJ-1250 - SHO-FLOW® ELECTRONIC FLOW INDICATOR – same as SF-NF-NF-125 with 2.5" NH female swivel inlet x 2.5" NH male outlet and a flow range of 300-1250.

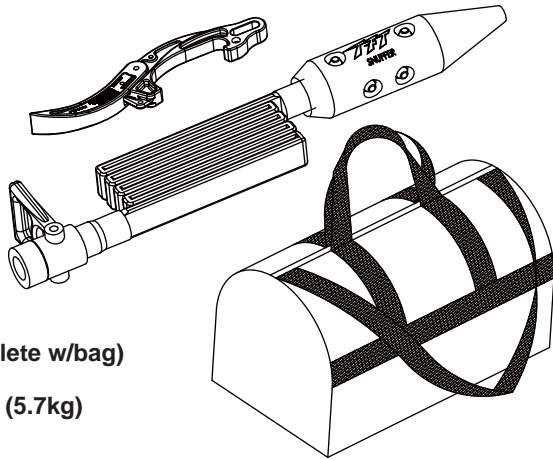
The Sho-Flow water flow indicator is designed for installation behind a nozzle or on the outlet of a pump panel to quickly determine the flow present in the hose line and the pressure where the Sho-Flow is installed. Any firefighting, training, or testing operation that utilizes hose lines or nozzles is a potential application for the Sho-Flow. The Sho-Flow will work best if the amount of turbulence from elbows, valves, wyes, etc. is minimized both downstream and upstream of the unit, as with any flow measuring device.

The Sho-Flow is intended for use with water or solutions of water and foam concentrate. It is not intended for use with pure foam concentrate, compressed air foams, hydrocarbons or other liquids. The Sho-Flow is not intended for continuous outdoor storage, because direct sunlight may cause damage to the electronics. Extended storage in hot, or cold environments will shorten battery life. An arrow indicates the direction of flow. Reverse installation will not damage the flow indicator but incorrect readings will result.

Model Number IP Threads	SF-NF-NF-125 SF-IF-IF-125	SF-NF-NF-200 SF-IF-IF-200	SF-NF-NF-300 SF-IF-IF-300	SF-NJNJ-500 SF-IJIJ-500	SF-NJNJ-1250 SF-IJIJ-1250
Flow Range	30-125 GPM 100-475 LPM	50-200 GPM 175-750 LPM	70-300 GPM 250-1100 LPM	125-500 GPM 500-2000 LPM	300-1250 GPM 1100-4500 LPM
Standard Inlet Female	1.5"-9 NH	1.5"-9 NH	1.5"-9 NH	2.5"-7.5 NH	2.5"-7.5 NH
Standard Outlet Male	1.5"-9 NH	1.5"-9 NH	1.5"-9 NH	2.5"-7.5 NH	2.5"-7.5 NH
Weight	2.5 LBS 1.1 KG	2.5 LBS 1.1 KG	2.5 LBS 1.1 KG	4.1 LBS 1.91 KG	4.1 LBS 1.91 KG

Operational Specifications	US	METRIC
Flow Accuracy	± 5% of Full Scale	± 5% of Full Scale
Pressure Accuracy	± 5% of Full Scale	± 5% of Full Scale
Non-recoverable pressure loss @ max flow	1250 Model: 15 PSI All others 5 PSI	4500 Model 1.1 BAR All others 0.5 BAR
Max Operating Pressure	250 PSI	17 BAR
Hydrostatic Test Pressure	800 PSI	55 BAR
Battery Type & Life Expectancy	9 volt, Lithium 24 hrs, Alkaline 10 hrs	
Operating Temperature	32° to 158° F	0° to 70° C
Storage Temperature	-30° to 185° F	-35° to 85° C

SPECIALTY NOZZLES



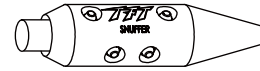
A3830
(Complete w/bag)

12.5 lb (5.7kg)

A3830 - CHIMNEY SNUFFER - Quickly knocks down chimney fires with a fine spray so water damage is minimized or eliminated. Durable five-pound head is easily operated by one person. Eight strategically placed nozzles spray 40 gallons per hour, at 60 psi. The Chimney Snuffer comes complete with carrying bag, garden hose adapter, Res-Q-Rench, 25 feet (7.6m) of 1" (25mm) hose and ball shutoff valve. 1.0" NH (25mm).

A3831

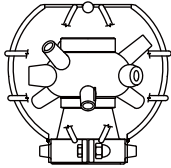
5.4 lb (2.5kg)
11.00" (27.9cm)



A3831 Chimney Snuffer Head Only
1.0" NH (25mm) With GHT
(19mm) Adapter.

S-CN

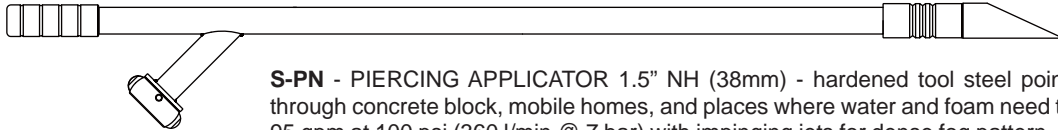
8.5 lb (4.9kg)
8.75" x 7.75"
(22.2 x 19.7cm)



S-CN - CELLAR "DISTRIBUTOR" NOZZLE 2.5" NH (65mm) FEMALE INLET - for reaching fires in hard to get at places. Ball bearing revolving action with rigid chromed brass base. Nine (9) varying angled discharge orifices, three (3) reaction and six (6) radial. Flows 280 gpm at 100 psi and 198 gpm at 50 psi (1060 l/min @ 7 bar and 750 l/min @ 3 bar). 2.5" NH (65mm) thread and metal protection cage is standard. Available in 2.5" NH thread only.

S-PN

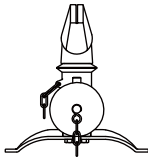
9.7 lb (4.4kg)
51.50" (130.8cm)



S-PN - PIERCING APPLICATOR 1.5" NH (38mm) - hardened tool steel point for driving through concrete block, mobile homes, and places where water and foam need to get. Flows 95 gpm at 100 psi (360 l/min @ 7 bar) with impinging jets for dense fog pattern. Ideal for use with Class A and AFFF foams. Dimension: 1.5" x 51.5" (3.8cm x 130.8cm) 1.5" NH thread only.

S-WC

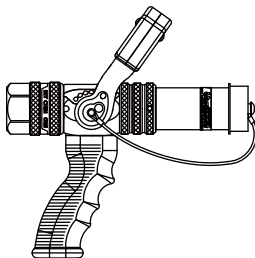
13.2 lb (5.9kg)
10.00" (25.4cm)



S-WC - WATER CURTAIN 2.5" NH (65mm) INLET & OUTLET - Water curtain: 35' width & 20' height. (10.7m x 6.1m) Swivel joint allows curtain to be directed in relationship to the hose line. Flow rate: 100 gpm at 100 psi (380 l/min @ 7 bar). 2.5" NH (65mm) female swivel inlet and 2.5" (65mm) male outlet with end cap and chain. End cap can be removed to allow the use of multiple units on one hose lay. Available in 2.5" NH thread only.

BTFT-DC5
BTFT-DC5-ND

2.1 lb (1.0kg)
8.00" (20.3cm)

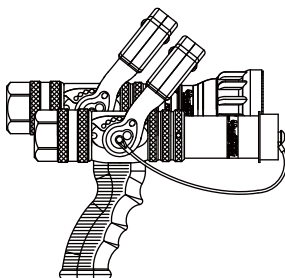


BTFT-DC5 DRY CHEM NOZZLE 5#/SEC 1.0" NPT (25mm) - The dry chemical nozzle is designed for an application rate of 5 pounds per second (2.3kg/sec), utilizes the same slide-valve design as used for water application and a special front end designed for dry chemicals. The front end consists of the valve seat, a set of straightening fins, a straight through barrel section, and is designed to withstand the abrasive impact of the dry chemical agent. The nozzle operator can select from six valve settings to flow an appropriate rate of dry chemical agent up to the limit of the system. Effective reach of the cloud is 75 feet (23m) at full flow and proportionately less at partial valve settings. There is no adjustment of pattern shape. 1" NPT (25mm) swivel inlet is standard.

BTFT-DC5-ND - Same as above but with 1" NH (25mm) swivel inlet.

B-DUAL
B-DUAL-ND

3.0 lb (1.4kg)
9.00" (22.9cm)



B-DUAL DUAL AGENT NOZZLE 1.0" NPT (25mm) SWIVEL INLETS The nozzle for use with water or AFFF is identical to the B-BH (page 24) TFT ULTIMATIC 125 nozzle with the exception of the pipe thread inlet. It has fully automatic pressure control regulated to approximately 100 psi (7 bar) throughout the flow range of 10-125 gpm (40-500 l/min). Accepts the FJ-U FoamJet attachment. Mounted with BTFT-DC5 on single pistol grip.

B-DUAL-ND - Same as above but with 1" NH (25mm) swivel inlets.

B-DC1040BC
(not shown)

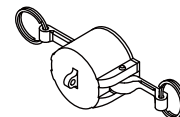
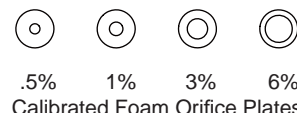
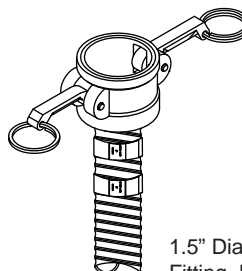
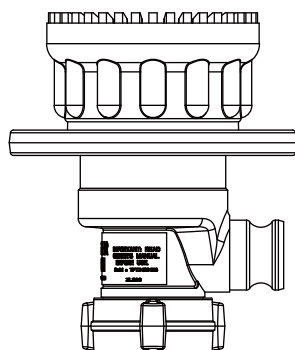
B-DC1040BC DUAL AGENT NOZZLE 1.0" NH (25mm) INLETS The nozzle for use with water or AFFF is identical to the DS1040BC (page 10) TFT BubbleCup nozzle with the exception of the pipe thread inlet. (Nozzle is not pictured.)

Self-Educting Foam Nozzle

The Task Force Tips' MASTER FOAM nozzle is a simple and rugged self-educting foam nozzle with superior stream quality and reach. This fixed gallonage fog nozzle rated at 100 psi (7 bar) is available with your choice of 250, 350, 500 or 750 gpm (950, 1300, 2000, 3000 l/min). Fog angle is user adjustable between 90° wide fog and straight stream. The nozzle's baffle is easily removed for flushing debris. The standard swivel coupling is 2.5" NH, NPSH, or BSP (65mm) female threads. The simple flow geometry (patent pending) can educt foam concentrate at .5%, 1%, 3%, or 6% with no small passages to clog. Percentage is easily set with an interchangeable orifice plate. A set of calibrated foam orifice plates is included. Nozzle comes with an industrial grade UV resistant, 8 feet long, 1.5" diameter (2.4m x 38mm) concentrate hose with a cam lock fitting for quick and secure attachment to the nozzle. The simple and basic design requires no grease or other maintenance. The halo ring/stream shaper is made from non-corroding high temperature polymer. The rubber bumper is UV resistant. The MASTER FOAM self-educting nozzle is available in hardcoat anodized ANSI A356.0.T6 aluminum. All MASTER FOAM nozzles accept the FJ-LX-M FOAMJET low expansion air-aspirating attachment.

ZMF10A

7.3 lb (3.3kg)
10.50" (26.7cm)



Dust Cap With
Cam Lock Fitting

1.5" Diameter Concentrate Hose with a 1.5" Cam Lock
Fitting, Industrial grade, UV resistant, 8 feet long

When ordering a MASTER FOAM nozzle, choose one option from each category. For example Model ZMF 1 2 A is 2.5" NH Female thread, 500 gpm at 100 psi. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.

ZMF

THREADS (Swivel)	FLOW
1) 2.5"-7.5 NH FEMALE	0) 250 gpm @ 100 psi — Kfactor = 25 (950 l/min @ 7 bar)
2) 2.5"-11 BSP FEMALE	1) 350 gpm @ 100 psi — Kfactor = 35 (1300 l/min @ 7 bar)
3) 2.5"-11.5 NPSH FEMALE	2) 500 gpm @ 100 psi — Kfactor = 50 (2000 l/min @ 7 bar)
4) 2.5"- SPECIAL THREADS	3) 750 gpm @ 100 psi — Kfactor = 75 (3000 l/min @ 7 bar)
(2.5" = 65mm)	

A

Z950A-KIT

Baffle kit to change nozzle flow setting. Contains 250, 350, 500 & 750 gpm (950, 1300, 2000, 3000 l/min) baffle assembly and orifice plates.

Z625A

7.0 lb (3.2kg)



Supply Hose - 1.5" Cam lock X 2.0" Cam lock
1.5" x 10 feet (38mm x 3m) long concentrate
hose, Industrial grade, UV resistant.



VE960-KIT

VE960-Kit 1.5" Cam lock adapter available. See page 152.

Z681

6.0 lb (2.7kg)

Z681 - SINGLE FOAM DRUM KIT - provides a connection between a TFT Master Foam nozzle and a 55-gallon foam drum, allowing the nozzle to be used instantly. Each corrosion resistant kit includes a PVC pick-up tube and fittings, brass valve, glass filled polypropylene quick connect fittings and a vacuum relief valve. The drum kit installs to the NPT opening in the drum. The quick connect attached to the end of the hose allows easy changing of drums. The drum kit can be screwed out of an empty drum and screwed into a full drum without tools.

Z682

16.5 lb (7.5kg)

Z682 - DUAL FOAM DRUM KIT - when additional foam supply is required. The dual drum kit includes the single drum kit, plus a pick up tube, valve, tee, quick connects and a 4 foot (1.2m) length of hose with quick connects to provide the same convenience as the single drum kit. The drum kit installs to the NPT opening in the drum. The quick connect attached to the end of the hose allows easy changing of drums. The drum kit can be screwed out of an empty drum and screwed into a full drum without tools.

MAX-FORCE 100 - 500 GPM (400-2000 l/min) Dual Pressure Automatic

MD12A

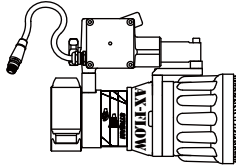
6.7 lb (3.0kg)
9.00" (22.9cm)



MD12A MAX-FORCE DUAL PRESSURE AUTOMATIC TIP 2.5" NH (65mm) - with a flow capacity of 100-500 gpm (400-2000 l/min). The nozzle may be switched between standard 100 psi (7bar) and a low pressure mode 55 psi (4bar) by twisting a knob on the front of the nozzle. The pattern adjusts from straight stream to a 120 degree wide fog. Further rotation opens the tip to flush 3/8" (10mm) debris without shutting down. Hardcoat anodized aluminum with rubber bumper. Standard inlet is 2.5"NH (65mm) rocker lug swivel.

MD-ERP-12A MD-ER-12A

10.2 lbs (4.6kg)
10.00" (26.0cm)



MD-ERP-12A 100 PSI (7bar) MAX-FORCE ELECTRIC REMOTE TIP Automatic dual-pressure control with a flow capacity of 100-500 gpm (400-2000 l/min). The nozzle may be switched between standard 100 psi (7bar) and 55 psi (4bar) by twisting a knob on the front of the nozzle. 2.5" NH (65mm) rigid rocker lug coupling is standard. For use on TFT RC monitors only.

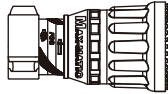
MD-ER-12A - same as MD-ERP-12A except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

MAX-MATIC 100 - 500 GPM (400-2000 l/min) Automatic

MD18A

MD17A

6.5 lb (2.9kg)
9.00" (22.9cm)

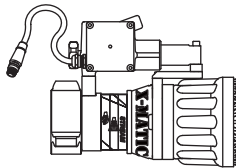


MD18A MAX-MATIC 100 PSI AUTOMATIC TIP 2.5" NH (65mm) - Automatic pressure control with a flow capacity of 100-500 gpm (400-2000 l/min). The nozzle operates at a standard 100 psi (7bar). The pattern adjusts from straight stream to a 120 degree wide fog. Further rotation opens the nozzle to flush 3/8" (10mm) debris without shutting down. Hardcoat anodized aluminum with rubber bumper. Standard inlet is 2.5" NH (65mm) rocker lug swivel.

MD17A MAX-MATIC 80 PSI - LOW PRESSURE VERSION – Same as MD18A above, but operates at a low pressure of approximately 80 psi (6bar).

MD-ERP-18A MD-ER-18A

10.0 lbs (4.5kg)
10.00" (26.0cm)



MD-ERP-18A 100 PSI (7bar) MAX-MATIC ELECTRIC REMOTE TIP Automatic pressure control with a flow capacity of 100-500 gpm (400-2000 l/min). The nozzle operates at a standard 100 psi (7bar). 2.5" NH (65mm) rigid rocker lug coupling is standard. For use on TFT RC monitors only.

MD-ER-18A - same as MD-ERP-18A except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

MAX-FLOW 500 GPM (2000 l/min) Fixed Gallonage

MD14A

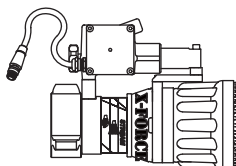
6.5 lb (2.9kg)
9.00" (22.9cm)



MD14A MAX-FLOW 500 GPM FIXED GALLONAGE - (2000 l/min) The fixed orifice tip is ideal for high rise attack when pressure fluctuations can be extreme. The nozzle will operate with pressures as low as 30 psi (2bar). The pattern adjusts from straight stream to a 120 degree wide fog. Further rotation opens the nozzle to flush 3/8" (10mm) debris without shutting down. Hardcoat anodized aluminum with rubber bumper. Standard inlet is 2.5"NH (65mm) rocker lug swivel.

MD-ERP-14A MD-ER-14A

10.0 lbs (4.5kg)
10.00" (26.0cm)



MD-ERP-14A 100 PSI (7bar) MAX-FLOW ELECTRIC REMOTE TIP The nozzle will operate with pressures as low as 30 psi (2bar). 2.5" NH (65mm) rigid rocker lug coupling is standard. For use on TFT RC monitors only.

MD-ER-14A - same as MD-ERP-14A except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

FoamJet Model for Max-Series FJ-LX-MD (found on page 42)

2.5" (65mm) MAX-FORCE 100 - 500 gpm (400 - 2000 l/min) Dual Pressure Nozzle
 2.5" (65mm) MAX-MATIC 100 - 500 gpm (400 - 2000 l/min) Automatic
 2.5" (65mm) MAX-FLOW 500 gpm (2000 l/min) Fixed Gallonage



Choose one option from each category. For example, Model MD27A is a MAX-MATIC low pressure 80 psi (6 bar) automatic nozzle with BSP threads. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.

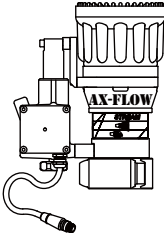
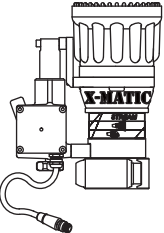
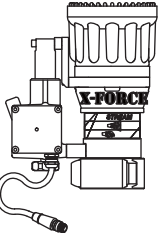
MD

INLET (Swivel)	PRESSURE FLOW OPTIONS
1) NH FEMALE	2 = Dual Pressure 55 / 100 PSI (4/7 bar)
2) BSP FEMALE	4 = Fixed Gallonage 500 GPM (2000 l/min)
3) NPSH FEMALE	7 = Automatic Low Pressure 80 PSI (6 bar)
4) SPECIAL THREADS	8 = Automatic 100 PSI (7 bar)

A

FoamJet Model for Max-Series FJ-LX-MD (found on page 42)

2.5" (65mm) MAX-FORCE 100 - 500 gpm (400 - 2000 l/min) Dual Pressure Nozzle
 2.5" (65mm) MAX-MATIC 100 - 500 gpm (400 - 2000 l/min) Automatic
 2.5" (65mm) MAX-FLOW 500 gpm (2000 l/min) Fixed Gallonage

MAX-SERIES 500 gpm Electric Remote Nozzles	 Dual Pressure Automatic	 Automatic Pressure	 Fixed Gallonage
100/55 psi NH Threads	MD-ERP-12A		
100/55 psi NH Threads	MD-ER-12A*		
100 psi NH Threads		MD-ERP-18A	
100 psi NH Threads		MD-ER-18A*	
100 psi NH Threads			MD-ERP-14A
100 psi NH Threads			MD-ER-14A*

When ordering a nozzle for use on TFT RC monitors, order a plug version (ERP). ERP versions are equipped with SMART STREAM technology. This technology utilizes a position encoder in the nozzle actuator to give the user greater control of the stream pattern, especially around FOG position. Delivered with a waterproof plug connection for seamless integration with TFT's Tornado RC, Hurricane RC, Typhoon RC, or Monsoon RC Monitor.

* Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

MASTER STREAM 1000 SERIES

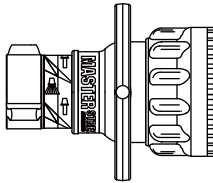
150 - 1000 GPM (600 -3800 l/min)

Fixed, Selectable and Automatic

The TFT Master Stream 1000 series gives a clean, far-reaching straight stream. It is adjustable from straight stream to a dense fog pattern. Models are available with either automatic pressure control, five selectable gallonage settings, or a factory ordered fixed orifice. All Master Stream series nozzles are suitable for use with foam and accept the FJ-LX-M FOAMJET low expansion air aspirating attachment.

M-R1000-NJ
M-R1000-NL
M-R1000-NN

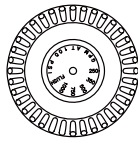
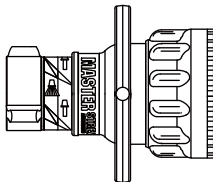
9.1 lb (4.1kg)
10.00" (25.4cm)



M-R1000-NJ MASTER W/HALO AUTOMATIC 2.5" NH (65mm) - Flow range of 150-1000 gpm (600-3800 l/min). Fully automatic Master Stream nozzle for use on monitors, ladder pipes, deluge guns, and aerial platforms. Constant nozzle pressure regulated to 100 psi (7 bar). Continuously variable from straight stream to wide fog. Includes halo ring for manual pattern control. Rubber bumper incorporates TFT "power fog" teeth for fully-filled, finger-free fog pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. 2.5" NH (65mm) rocker lug swivel coupling is standard. 3.0" NH (75mm) or 3.5" NH (90mm) coupling is optional.

M-RS1000-NJ
M-RS1000-NL
M-RS1000-NN

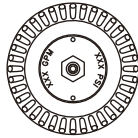
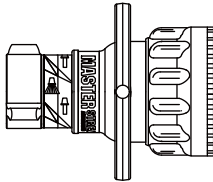
9.1 lb (4.1kg)
10.00" (25.4cm)



M-RS1000-NJ MASTER W/HALO SELECTABLE FLOW 2.5" NH (65mm) - Flows of 250, 350, 500, 750, and 1000 gpm at 100 psi (950, 1300, 2000, 3000 and 4000 l/min @ 7 bar). Flow is adjusted by depressing the outer baffle and rotating to the laser engraved position for the desired flow. Nozzle must be shut down to change settings. 2.5" NH (65mm) rocker lug swivel coupling is standard. 3.0" NH (75mm) or 3.5" NH (90mm) coupling is optional.

M-RF1000-NJ

8.3 lb (3.8kg)
10.00" (25.4cm)



M-RF1000-NJ MASTER W/HALO FIXED FLOW 2.5" NH (65mm) - This nozzle, built on the Master Stream body, is a fixed constant flow nozzle. It is factory preset at the customer's specified Kfactor 50 to 105 (1000 gpm (4000 l/min) max). 2.5" NH (65mm) rocker lug swivel coupling is standard. 3.0" NH (75mm) or 3.5" NH (90mm) coupling is optional. Flow and pressure are laser engraved on the baffle.

MASTER STREAM 1250S SERIES

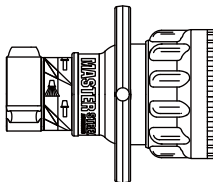
150 - 1250 GPM (600 -4500 l/min)

Automatic Pressure Control

The TFT Master Stream 1250 series gives a clean, far-reaching straight stream. It is adjustable from straight stream to a dense fog pattern. All Master Stream series nozzles are suitable for use with foam and accept the FJ-LX-M FOAMJET low expansion air aspirating attachment.

M-R1250S-NJ
M-R1250S-NL
M-R1250S-NN

9.1 lb (4.1kg)
10.00" (25.4cm)



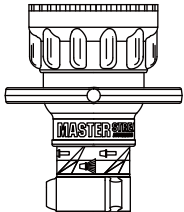
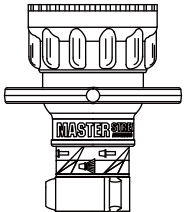
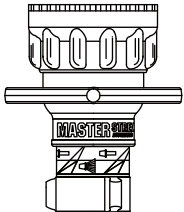
M-R1250S-NJ MASTER W/HALO AUTOMATIC 2.5" NH (65mm) - Flow range of 150-1250 gpm (600-4500 l/min). Fully automatic Master Stream nozzle for use on monitors, ladder pipes, deluge guns, and aerial platforms. Constant nozzle pressure regulated to 100 psi (7 bar). Continuously variable from straight stream to wide fog. Includes halo ring for manual pattern control. Rubber bumper incorporates TFT "power fog" teeth for fully-filled, finger-free fog pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. 2.5" NH (65mm) rocker lug swivel coupling is standard. 3.0" NH (75mm) or 3.5" NH (90mm) coupling is optional.

Fixed, Selectable and Automatic

MASTER STREAM 1000 SERIES

150 - 1000 GPM (600 - 3800 l/min)

FoamJet Model for Master Stream Series
FJ-LX-M (found on page 42)

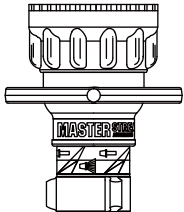
Master Stream 100 psi Nozzles 150 - 1000 GPM (600 - 3800 l/min)	 Automatic Pressure Control With Halo	 Selectable Flow With Halo	 Fixed Flow With Halo
100 PSI 2.5" NH THREADS	M-R1000-NJ	M-RS1000-NJ	M-RF1000-NJ
100 PSI 3.0" NH THREADS	M-R1000-NL	M-RS1000-NL	M-RF1000-NL
100 PSI 3.5" NH THREADS	M-R1000-NN	M-RS1000-NN	M-RF1000-NN

Automatic Pressure Control

MASTER STREAM 1250S SERIES

150 - 1250 GPM (600 - 4500 l/min)

FoamJet Model for Master Stream Series
FJ-LX-M (found on page 42)

Master Stream 100 psi Nozzles 150-1250 GPM (600-3800 l/min)	 Automatic Pressure Control With Halo
100 PSI 2.5" NH THREADS	M-R1250S-NJ
100 PSI 3.0" NH THREADS	M-R1250S-NL
100 PSI 3.5" NH THREADS	M-R1250S-NN

MASTER STREAM 1000 SERIES

150 - 1000 GPM (600 -3800 l/min)

Fixed, Selectable and Automatic

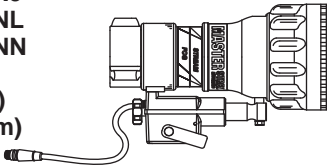
The TFT Master Stream 1000 series gives a clean, far-reaching straight stream. It is adjustable from straight stream to a dense fog pattern. Models are available with either automatic pressure control, five selectable gallonage settings, or a factory ordered fixed orifice. All Master Stream series nozzles are suitable for use with foam and accept the FJ-LX-M FOAMJET low expansion air aspirating attachment.

Electrically operated pattern control for use on remote applications. The rugged, cast aluminum actuator is totally enclosed and waterproof. The 12 to 24 volt actuator unit develops sufficient force to break loose ice or contaminants and draws just 3 amps. There is a manual override if the electrical power fails. Water pattern adjusts from straight stream to a wide fog. Nozzle and actuator are hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off.

When ordering a nozzle for use on TFT RC monitors, order a plug version (ERP). ERP versions are equipped with SMART STREAM technology. This technology utilizes a position encoder in the nozzle actuator to give the user greater control of the stream pattern, especially around FOG position. Delivered with a waterproof plug connection for seamless integration with TFT's Hurricane, Typhoon, or Monsoon RC Monitor.

MERFP1000-NJ
MERFP1000-NL
MERFP1000-NN

13.7 lb (6.2kg)
12.00" (30.5cm)

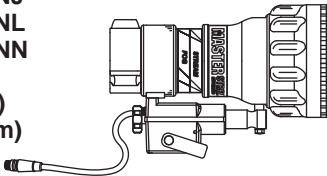


MERFP1000-NJ MASTER ELECTRIC REMOTE FIXED FLOW 2.5" NH (65mm) - This nozzle, built on the Master Stream body, is a fixed constant flow nozzle. It is factory preset at the customer's specified Kfactor 50 to 105 (1000 gpm (4000 l/min) max). 2.5" NH (65mm) rocker lug swivel coupling is standard. 3.0" NH (75mm) or 3.5" NH (90mm) coupling is optional. Flow and pressure are laser engraved on the baffle. For use on TFT RC monitors only.

M-ERF1000-NJ* Same as M-ERP1000-NJ except with 6 ft of non-terminated remote wire for custom installations. Does not have SMARTSTREAM technology.

MERSP1000-NJ
MERSP1000-NL
MERSP1000-NN

13.7 lb (6.2kg)
12.00" (30.5cm)

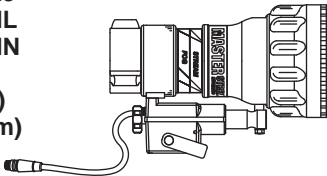


MERSP1000-NJ MASTER ELECTRIC REMOTE SELECTABLE 2.5" NH (65mm) - Flows of 250, 350, 500, 750, and 1000 gpm at 100 psi (950, 1300, 2000, 3000 and 4000 l/min @ 7 bar). Flow is adjusted by depressing the outer baffle and rotating to the laser engraved position for the desired flow. Nozzle must be shut down to change settings. 2.5" NH (65mm) rocker lug swivel coupling is standard. 3.0" NH (75mm) or 3.5" NH (90mm) coupling is optional. For use on TFT RC monitors only.

M-ERS1000-NJ* Same as M-ERSP1000-NJ except with 6 ft of non-terminated remote wire for custom installations. Does not have SMARTSTREAM technology.

M-ERP1000-NJ
M-ERP1000-NL
M-ERP1000-NN

13.7 lb (6.2kg)
12.00" (30.5cm)

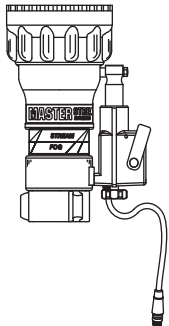
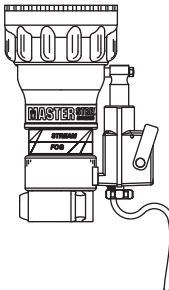
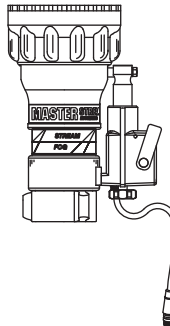
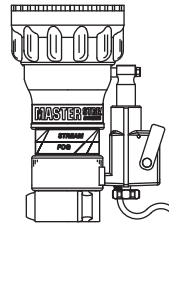


M-ERP1000-NJ MASTER ELECTRIC REMOTE AUTOMATIC 2.5" NH (65mm) - The M-ERP1000 has a flow capacity on 150-1000 gpm (600-3800 l/min). 2.5" (65mm) NH rocker lug swivel coupling is standard. 3.0" NH (75mm) or 3.5" NH (90mm) coupling is optional. For use on TFT RC monitors only.

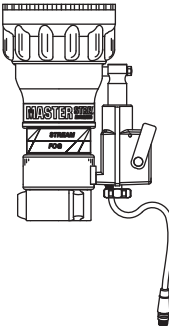

M-ER1000-NJ* Same as M-ERP1000-NJ except with 6 ft of non-terminated remote wire for custom installations. Does not have SMARTSTREAM technology.

Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without smart stream technology.

**FoamJet Model for Master Stream Series
FJ-LX-M (found on page 42)**

Master Stream Electric Remote 100 psi Nozzles 150 - 1000 GPM (600 - 3800 l/min)				
	FIXED Flow With Plug	FIXED Flow With 6' 2-Lead Wire	SELECTABLE Flow With Plug	SELECTABLE Flow With 6' 2-Lead Wire
100 PSI 2.5" NH THREADS	MERFP1000-NJ	M-ERF1000-NJ*	MERSP1000-NJ	M-ERS1000-NJ*
100 PSI 3.0" NH THREADS	MERFP1000-NL	M-ERF1000-NL*	MERSP1000-NL	M-ERS1000-NL*
100 PSI 3.5" NH THREADS	MERFP1000-NN	M-ERF1000-NN*	MERSP1000-NN	M-ERS1000-NN*

MASTER STREAM 1000 SERIES
150 - 1000 GPM (600 - 3800 l/min)

Master Stream Electric Remote 100 psi Nozzles 150 - 1000 GPM (600 - 3800 l/min)		
	AUTOMATIC Pressure Control With Plug	AUTOMATIC Pressure Control With 6' 2-Lead Wire
100 PSI 2.5" NH THREADS	M-ERP1000-NJ	M-ER1000-NJ*
100 PSI 3.0" NH THREADS	M-ERP1000-NL	M-ER1000-NL*
100 PSI 3.5" NH THREADS	M-ERP1000-NN	M-ER1000-NN*

* Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

MASTER STREAM 1250S SERIES

150 - 1250 GPM (600 -4500 l/min)

Automatic

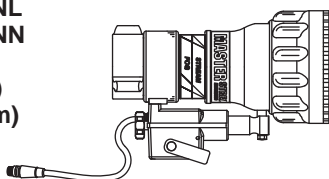
The TFT Master Stream 1250 series gives a clean, far-reaching straight stream. It is adjustable from straight stream to a dense fog pattern. All Master Stream series nozzles are suitable for use with foam and accept the FJ-LX-M FOAMJET low expansion air aspirating attachment.

Electrically operated pattern control for use on remote applications. The rugged, cast aluminum actuator is totally enclosed and waterproof. The 12 to 24 volt actuator unit develops sufficient force to break loose ice or contaminants and draws just 3 amps. There is a manual override if the electrical power fails. Water pattern adjusts from straight stream to a wide fog. Nozzle and actuator are hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off.

When ordering a nozzle for use on TFT RC monitors, order a plug version (ERP). ERP versions are equipped with SMART STREAM technology. This technology utilizes a position encoder in the nozzle actuator to give the user greater control of the stream pattern, especially around FOG position. Delivered with a waterproof plug connection for seamless integration with TFT's Hurricane, Typhoon, or Monsoon RC Monitor.

M-ERP1250SNJ
M-ERP1250SNL
M-ERP1250SNN

13.7 lb (6.2kg)
12.00" (30.5cm)



M-ERP1250SNJ MASTER ELECTRIC REMOTE AUTOMATIC 2.5" NH (65mm) - The M-ERP1250S has a flow capacity on 150-1250 gpm (600-4500 l/min). 2.5" (65mm) NH rocker lug swivel coupling is standard. 3.0" NH (75mm) or 3.5" NH (90mm) coupling is optional. For use on TFT RC monitors only.

M-ER1250S-NJ* Same as M-ERP1250S-NJ except with 6 ft of non-terminated remote wire for custom installations. Does not have SMARTSTREAM technology.

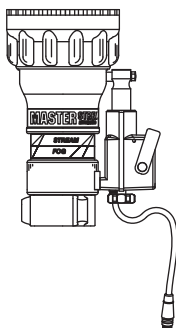
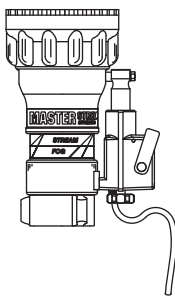
Models with * are designed for application on monitors manufactured by others.
This is a two wire connection, non terminated, without SMART STREAM technology.

Automatic

MASTER STREAM 1250S SERIES

150 - 1250 GPM (600 - 4500 l/min)

FoamJet Model for Master Stream Series
FJ-LX-M (found on page 42)

Master Stream Electric Remote 100 psi Nozzles 150 - 1250 GPM (600 - 4500 l/min)		
	AUTOMATIC Pressure Control With Plug	AUTOMATIC Pressure Control With 6' 2-Lead Wire
100 PSI 2.5" NH THREADS	M-ERP1250SNJ	M-ER1250S-NJ*
100 PSI 3.0" NH THREADS	M-ERP1250SNL	M-ER1250S-NL*
100 PSI 3.5" NH THREADS	M-ERP1250SNN	M-ER1250S-NN*

* Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

MASTER STREAM 1250 SERIES

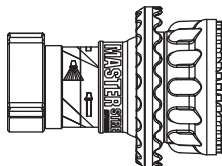
300 - 1250 GPM (1100 -4500 l/min)

Automatic

The Master Stream 1250 has the ability to produce an excellent hard-hitting stream at any volume from 300 gpm to 1250 gpm (1100 - 4500 l/min). It is adjustable from a straight stream to a dense fog pattern. This nozzle features TFT's exclusive pressure adjustment knob. With a twist of the large knob on the front of the nozzle, operating pressure can be immediately adjusted to tactile detent settings between 70 and 120 psi (4.8 and 8.3 bar). At pressures other than 100 psi, maximum flow is determined by K-factor of 125. Applications include truck mounted deluge devices, aerials, fireboats, industrial applications, or where a flow of 300 - 1250 gpm (1100 - 4500 l/min) is necessary or desired.

M-R1250-NJ
M-R1250-NL
M-R1250-NN
M-R1250-NP

13.6 lb (6.2kg)
12.00" (32.0cm)



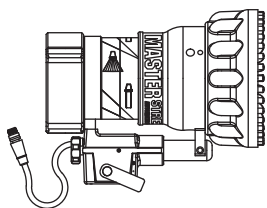
M-R1250-NN MASTER STREAM 1250 W/HALO 3.5" NH (90mm) - Automatic high volume Master Stream nozzle with a flow range of 300-1250 gpm (1100 - 4500 l/min). Continuously variable pattern from straight stream to wide fog. Includes halo ring for manual pattern control. Rubber bumper incorporates TFT "power fog" teeth for full finger-free fog pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Specify coupling size (2.5", 3.0", 3.5", 4.0") (64mm, 75mm, 90mm, 100mm) and threads. 3.5" NH (90mm) rocker lug swivel coupling is standard.

Electrically operated pattern control for use on remote applications. The rugged, cast aluminum actuator is totally enclosed and waterproof. The 12 to 24 volt actuator unit develops sufficient force to break loose ice or contaminants and draws just 3 amps. There is a manual override if the electrical power fails. Water pattern adjusts from straight stream to a wide fog. Nozzle and actuator are hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off.

When ordering a nozzle for use on TFT RC monitors, order a plug version (ERP). ERP versions are equipped with SMART STREAM technology. This technology utilizes a position encoder in the nozzle actuator to give the user greater control of the stream pattern, especially around FOG position. Delivered with a waterproof plug connection for seamless integration with TFT's Hurricane, Typhoon, or Monsoon RC Monitor.

M-ERP1250-NJ
M-ERP1250-NL
M-ERP1250-NN
M-ERP1250-NP

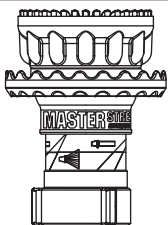
16.8 lb (7.6kg)
12.00" (32.0cm)

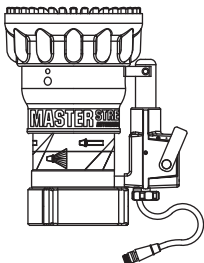
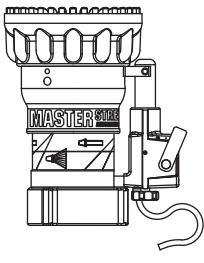


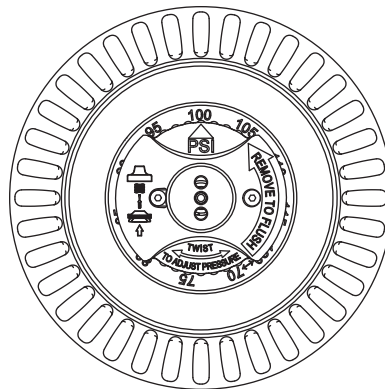
M-ERP1250-NN MASTER STREAM 1250 ELECTRIC REMOTE 3.5" NH (90mm) - The M-ERP1250-NN has a flow capacity of 300-1250 gpm (1100 - 4500 l/min). With a twist of the large knob on the front of the nozzle, operating pressure can be immediately adjusted to tactile detent settings between 70 and 120 psi (4.8 and 8.3 bar). Specify coupling size (2.5", 3.0", 3.5", 4.0") (64mm, 75mm, 90mm, 100mm) and threads. 3.5"NH (90mm) rocker lug swivel coupling is standard. For use on TFT RC monitors only.

M-ER1250-NN* Same as M-ERP1250-NN except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

Master Stream Automatic Pressure Control 100 psi Nozzle 300-1250 GPM (1100 - 4500 l/min)	
	Automatic Pressure Control With Halo
100 PSI 2.5" NH THREADS	M-R1250-NJ
100 PSI 3.0" NH THREADS	M-R1250-NL
100 PSI 3.5" NH THREADS	M-R1250-NN
100 PSI 4.0" NH THREADS	M-R1250-NP

Master Stream Electric Remote 100 psi Nozzles 300-1250 GPM (1100 - 4500 l/min)		
	Masterstream 1250 With Plug	Masterstream 1250 With 6' 2-Lead Wire
100 PSI 2.5" NH THREADS	M-ERP1250-NJ	M-ER1250-NJ*
100 PSI 3.0" NH THREADS	M-ERP1250-NL	M-ER1250-NL*
100 PSI 3.5" NH THREADS	M-ERP1250-NN	M-ER1250-NN*
100 PSI 4.0" NH THREADS	M-ERP1250-NP	M-ER1250-NP*



This nozzle features TFT's exclusive pressure adjustment knob. With a twist of the large knob on the front of the nozzle, operating pressure can be immediately adjusted to tactile detent settings between 70 and 120 psi (4.8 and 8.3 bar). At pressures other than 100 psi, maximum flow is determined by K-factor of 125.

* Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

MASTER STREAM 1500 SERIES

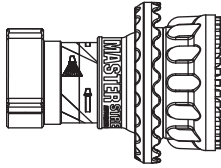
300 - 1500 GPM (1100 - 6000 l/min)

Automatic

The new Master Stream 1500 has the ability to produce an excellent hard-hitting stream at any volume from 300 gpm to 1500 gpm (1100 - 6000 l/min). It is adjustable from a straight stream to a dense fog pattern. This nozzle features TFT's exclusive pressure adjustment knob. With a twist of the large knob on the front of the nozzle, operating pressure can be immediately adjusted to tactile detent settings between 70 and 120 psi (4.8 and 8.3 bar). At pressures other than 100 psi, maximum flow is determined by K-factor of 150. Applications include truck mounted deluge devices, aerials, fireboats, industrial applications, or where a flow of 300 - 1500 gpm (1100 - 6000 l/min) is necessary or desired.

M-R1500-NJ
M-R1500-NL
M-R1500-NN
M-R1500-NP

13.6 lb (6.1kg)
12.00" (32.0cm)



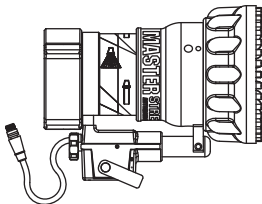
M-R1500-NN MASTER STREAM 1500 W/HALO 3.5" NH (90mm) - Automatic high volume Master Stream nozzle with a flow range of 300-1500 gpm (1100 - 6000 l/min). Continuously variable pattern from straight stream to wide fog. Includes halo ring for manual pattern control. Rubber bumper incorporates TFT "power fog" teeth for full finger-free fog pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Specify coupling size (2.5", 3.0", 3.5", 4.0") (64mm, 75mm, 90mm, 100mm) and threads. 3.5" NH (90mm) rocker lug swivel coupling is standard.

Electrically operated pattern control for use on remote applications. The rugged, cast aluminum actuator is totally enclosed and waterproof. The 12 to 24 volt actuator unit develops sufficient force to break loose ice or contaminants and draws just 3 amps. There is a manual override if the electrical power fails. Water pattern adjusts from straight stream to a wide fog. Nozzle and actuator are hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off.

When ordering a nozzle for use on TFT RC monitors, order a plug version (ERP). ERP versions are equipped with SMART STREAM technology. This technology utilizes a position encoder in the nozzle actuator to give the user greater control of the stream pattern, especially around FOG position. Delivered with a waterproof plug connection for seamless integration with TFT's Hurricane, Typhoon, or Monsoon RC Monitor.

M-ERP1500-NJ
M-ERP1500-NL
M-ERP1500-NN
M-ERP1500-NP


16.8 lb (7.6kg)
12.00" (32.0cm)

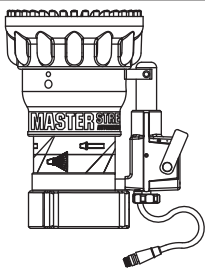
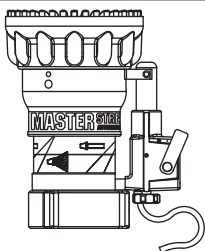


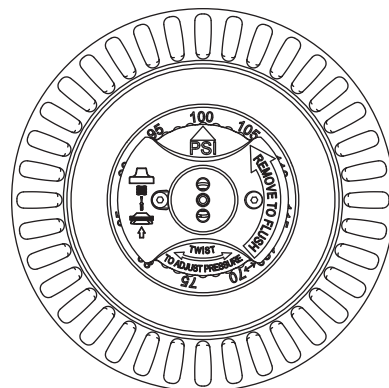
M-ERP1500-NN MASTER STREAM 1500 ELECTRIC REMOTE 3.5" NH (90mm) - The M-ERP1500-NN has a flow capacity of 300-1500 gpm (1100-6000 l/min). With a twist of the large knob on the front of the nozzle, operating pressure can be immediately adjusted to tactile detent settings between 70 and 120 psi (4.8 and 8.3 bar). Specify coupling size (2.5", 3.0", 3.5", 4.0") (64mm, 75mm, 90mm, 100mm) and threads. 3.5"NH (90mm) rocker lug swivel coupling is standard. For use on TFT RC monitors only.

M-ER1500-NN* Same as M-ERP1500-NN except with 6 ft of non-terminated remote wire for custom installations. Does not have SMARTSTREAM technology.

Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

Master Stream 100 psi Nozzles 300 - 1500 GPM (1100 - 6000 l/min)	 Automatic Pressure Control With Halo
100 PSI 2.5" NH THREADS	M-R1500-NJ
100 PSI 3.0" NH THREADS	M-R1500-NL
100 PSI 3.5" NH THREADS	M-R1500-NN
100 PSI 4.0" NH THREADS	M-R1500-NP

Master Stream Electric Remote 100 psi Nozzles 300 - 1500 GPM (1100 - 6000 l/min)	 Masterstream 1500 With Plug	 Masterstream 1500 With 6' 2-Lead Wire
100 PSI 2.5" NH THREADS	M-ERP1500-NJ	M-ER1500-NJ*
100 PSI 3.0" NH THREADS	M-ERP1500-NL	M-ER1500-NL *
100 PSI 3.5" NH THREADS	M-ERP1500-NN	M-ER1500-NN*
100 PSI 4.0" NH THREADS	M-ERP1500-NP	M-ER1500-NP*



This nozzle features TFT's exclusive pressure adjustment knob. With a twist of the large knob on the front of the nozzle, operating pressure can be immediately adjusted to tactile detent settings between 70 and 120 psi (4.8 and 8.3 bar). At pressures other than 100 psi, maximum flow is determined by K-factor of 150.

* Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

MASTER STREAM 2000 SERIES

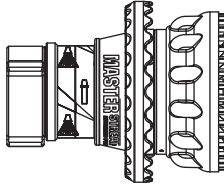
300 - 2000 GPM (1100 - 8000 l/min)

Fixed and Automatic

The Master Stream 2000 has the ability to produce an excellent hard-hitting stream at any volume from 300 gpm to 2000 gpm (1100 - 8000 l/min). It is adjustable from a straight stream to a dense fog pattern. The recently redesigned nozzles are substantially shorter and lighter than their predecessors and now feature TFT's exclusive pressure adjustment knob. With a twist of the knob on the front of the nozzle, operating pressure can be immediately adjusted between 80 and 120 psi (6 and 8.3 bar). At pressures other than 100 psi, maximum flow is determined by K-factor of 230. Applications include truck mounted deluge devices, aerials, fireboats, industrial applications, or where a flow of 300 - 2000 gpm (1100 - 8000 l/min) is necessary or desired.

M-R2000-NL
M-R2000-NN
M-R2000-NP

18.7 lb (8.5kg)
12.10" (30.7cm)



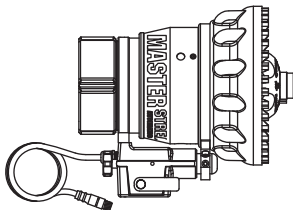
M-R2000-NN MASTER STREAM 2000 W/HALO 3.5" NH (90mm) - Automatic high volume Master Stream nozzle with a flow range of 300-2000 gpm (1100 - 8000 l/min). Continuously variable pattern from straight stream to wide fog. Includes halo ring for manual pattern control. Rubber bumper incorporates TFT "power fog" teeth for full finger-free fog pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Specify coupling size (2.5", 3.0", 3.5", 4.0") (75mm, 90mm, 100mm) and threads. 3.5" NH (90mm) rocker lug swivel coupling is standard.

Electrically operated pattern control for use on remote applications. The rugged, cast aluminum actuator is totally enclosed and waterproof. The 12 to 24 volt actuator unit develops sufficient force to break loose ice or contaminants and draws just 3 amps. There is a manual override if the electrical power fails. Water pattern adjusts from straight stream to a wide fog. Nozzle and actuator are hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off.

When ordering a nozzle for use on TFT RC monitors, order a plug version (ERP). ERP versions are equipped with SMART STREAM technology. This technology utilizes a position encoder in the nozzle actuator to give the user greater control of the stream pattern, especially around FOG position. Delivered with a waterproof plug connection for seamless integration with TFT's Hurricane, Typhoon, or Monsoon RC Monitor.

M-ERP2000-NL
M-ERP2000-NN
M-ERP2000-NP

21.5 lb (9.8kg)
12.10" (30.7cm)



M-ERP2000-NN MASTER STREAM 2000 ELECTRIC REMOTE 3.5" NH (90mm) - The M-ERP2000-NN has a flow capacity of 300-2000 gpm (1100-8000 l/min). With a twist of the knob on the front of the nozzle, operating pressure can be immediately adjusted between 80 and 120 psi (6 and 8.3 bar). Specify coupling size (3.0", 3.5", 4.0") (75mm, 90mm, 100mm) and threads. 3.5"NH (90mm) rocker lug swivel coupling is standard. For use on TFT RC monitors only.

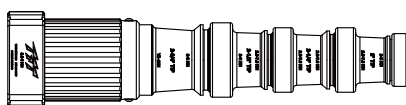
M-ER2000-NN* Same as M-ERP2000-NN except with 6 ft of non-terminated remote wire for custom installations. Does not have SMARTSTREAM technology.

Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

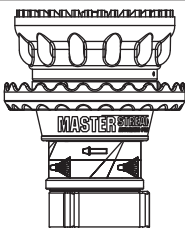
MASTER STREAM STACKED TIPS

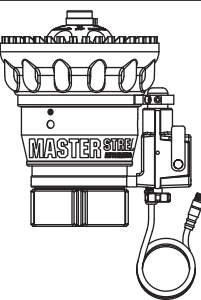
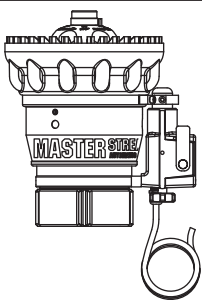
YST-4NN

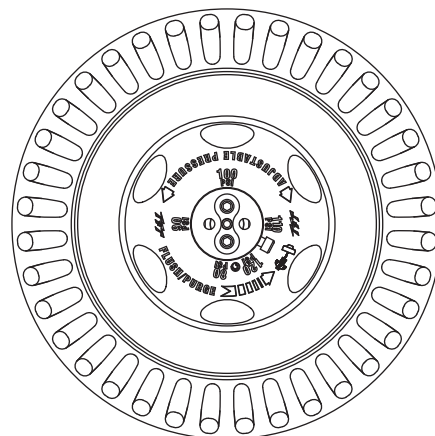
12.5 lb (5.7kg)
22.50" (57.2cm)



YST-4NN - 4 STACKED TIPS, 3.5" NH (89mm) Designed for monitor use up to 2000 gpm (8000 l/min), these lightweight tips are hardcoat anodized, allow four orifice options, have a built in stream straightener and pressure/flow charts laser engraved on each tip. Orifice openings are 2.75", 2.5", 2.25", and 2.0". (70mm, 64mm, 57mm and 50mm) 3.5" NH (89mm) swivel inlet coupling is standard.

Master Stream 100 psi Nozzles 300 - 2000 GPM (1100 - 8000 l/min)	 <p>Automatic Pressure Control With Halo</p>
100 PSI 3.0" NH THREADS	M-R2000-NL
100 PSI 3.5" NH THREADS	M-R2000-NN
100 PSI 4.0" NH THREADS	M-R2000-NP

Master Stream Electric Remote 100 psi Nozzles 300 - 2000 GPM (1100 - 8000 l/min)	 <p>Masterstream 2000 With Plug</p>	 <p>Masterstream 2000 With 6'2-Lead Wire</p>
100 PSI 3.0" NH THREADS	M-ERP2000-NL	M-ER2000-NL *
100 PSI 3.5" NH THREADS	M-ERP2000-NN	M-ER2000-NN*
100 PSI 4.0" NH THREADS	M-ERP2000-NP	M-ER2000-NP*



This nozzle now features TFT's exclusive pressure adjustment knob. With a twist of the knob on the front of the nozzle, operating pressure can be immediately adjusted between 80 and 120 psi (6 and 8.3 bar). At pressures other than 100 psi, maximum flow is determined by K-factor of 230.

Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

ER NOZZLES

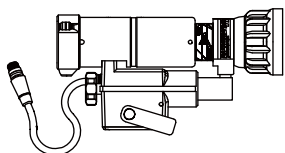
Electrically operated pattern control for use on remote applications. The rugged, cast aluminum drive is totally enclosed and waterproof. The 12 to 24 volt drive unit develops over 400 pounds (180kg) of force and draws 3 amps. There is a manual override if the electrical power fails. Water pattern adjusts from straight stream to a 120° wide fog. The nozzle can flush 3/8" (1cm) debris without shutting down. Nozzle and actuator are hardcoat anodized aluminum for maximum resistance to corrosion and wear. Tip does not shut off.

When ordering a nozzle for use on TFT RC monitors, order plug version (ERP). ERP versions are equipped with SMART STREAM technology. This technology utilizes a position encoder in the nozzle actuator to give the user greater control of the stream pattern, especially at FOG position. Nozzles equipped with a FLUSH position are programmed to stop and pause at full FOG position when moving towards the FLUSH position, preventing unwanted water flow. A second press of the button will cause the nozzle shaper to continue to move to flush position for removing debris from nozzle. Delivered with a waterproof plug connection for seamless integration with TFT's Tornado RC Monitor.

ULTIMATIC 125 10-125 GPM (40-500 l/min) Automatic

B-TO-ERP
BL-TO-ERP
B-TO-ER

6.4 lb (2.9kg)
10.25" (26.0cm)



B-TO-ERP ULTIMATIC ELECTRIC REMOTE TIP 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 10-125 gpm (40-500 l/min). The nozzle operates at a standard 100 psi (7 bar). Includes flush without shutting down, molded rubber teeth for full-fill "power fog" pattern. Accepts both FJ-U FOAMJET low-expansion and FJ-UMX FOAMJET multi-expansion foam attachments. 1.5" NH (38mm) swivel coupling is standard. For use on TFT Tornado RC monitor only.

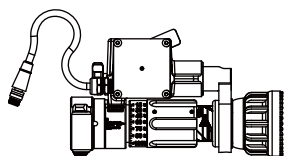
BL-TO-ERP - same as above except 10-100 gpm @ 75psi. (40-380 l/min @ 5 bar)

B-TO-ER* same as above except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

SELECTABLE 15-120 GPM (50-450 l/min) Selectable

B-TOS-ERP
B-TOS-ER

6.0 lb (2.7kg)
9.90" (25.1cm)



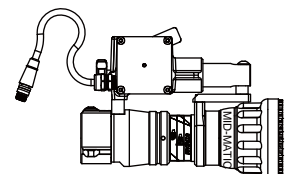
B-TOS-ERP SELECTABLE ELECTRIC REMOTE TIP 1.5" NH (38mm) - Selectable gallonage nozzle is infinitely adjustable between 15 and 120 gpm @ 100 psi (50-450 l/min at 7 bar). Indexed flow settings are provided at 15 gpm and 50 l/min increments. Flow setting may be adjusted without shutting down or locked to a specific setting as desired. Includes flush without shutting down and molded rubber teeth for full-fill "power fog" pattern. Lightweight hardcoat anodized aluminum for maximum resistance to corrosion and wear. Accepts both FJ-U FOAMJET low-expansion and FJ-UMX FOAMJET multi-expansion foam attachments. 1.5" NH (38mm) swivel coupling is standard. For use on TFT Tornado RC monitor only.

B-TOS-ER* same as above except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

MID-MATIC 70 - 200 GPM (260-760 l/min) Automatic

HM-TO-ERP
HM-TO-ER

6.5 lbs (2.9kg)
9.50" (24.0cm)



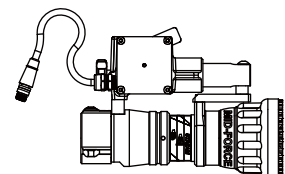
HM-TO-ERP 100 PSI (7 bar) MID-MATIC ELECTRIC REMOTE TIP 1.5" NH (38mm) - Automatic pressure control with a flow capacity of 70-200 gpm (260-760 l/min). The nozzle operates at a standard 100 psi (7 bar). Includes flush without shutting down, molded rubber teeth for full-fill "power fog" pattern. 1.5" NH (38mm) rigid rocker lug coupling is standard. For use on TFT Tornado RC monitor only.

HM-TO-ER* same as above except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

MID-FORCE 70 - 200 GPM (260-760 l/min) Dual Pressure Automatic

HMD-TO-ERP
HMD-TO-ER

6.5 lbs (2.9kg)
9.50" (24.0cm)



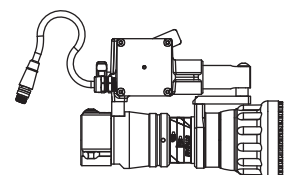
HMD-TO-ERP 100 PSI (7 bar) MID-FORCE ELECTRIC REMOTE TIP 1.5" NH (38mm) - Automatic dual-pressure control with a flow capacity of 70-200 gpm (260-760 l/min). Nozzle may be switched from 100 psi (7bar) and low pressure. Includes flush without shutting down, molded rubber teeth for full-fill "power fog" pattern. 1.5" NH (38mm) rigid rocker lug coupling is standard. For use on TFT Tornado RC monitor only.

HMD-TO-ER* same as above except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

CAFS-FORCE 1 Automatic

HMDC-TO-ERP
HMDC-TO-ER

6.5 lbs (2.9kg)
9.50" (24.0cm)



HMDC-TO-ERP 100 PSI (7 bar) CAFS-FORCE 1 ELECTRIC REMOTE TIP 1.5" NH (38mm) - Automatic pressure control. The CAFS-Force tip features an automatic dual-pressure control with a water flow capacity of 70-200 gpm that may be switched from standard low pressure (water application) to CAFS mode. The nozzle operates at a standard 100 psi (7 bar). Includes flush without shutting down, molded rubber teeth for full-fill "power fog" pattern. 1.5" NH (38mm) rigid rocker lug coupling is standard. For use on TFT Tornado RC monitor only.

HMDC-TO-ER* same as above except with 6 ft of non-terminated remote wire for custom installations. Does not have SMART STREAM technology.

Models with * are designed for application on monitors manufactured by others. This is a two wire connection, non terminated, without SMART STREAM technology.

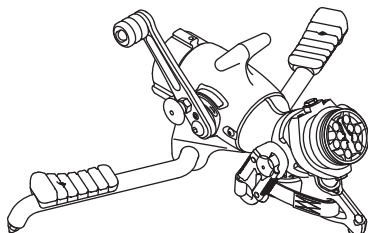
National Hose threads per NFPA 1963 Edition 2009 are standard.
Contact TFT for Special Threads.

Portable Monitor With Ball Valve

The Task Force Tips' Blitz Lite is an innovative, lightweight, and highly versatile attack monitor. This portable monitor is the most compact in the market when stored together with its standard TFT nozzle. It can go anywhere a handline goes while delivering much more water. With its shutoff ball valve fully open, its smooth open waterway produces low friction loss of about 9 psi at 500 gpm. The Blitz Lite's discharge pivot, that comes with factory installed removable stream-straightener, makes directing the superior stream extremely quick and effortless. A safety anchor strap, which ships with a wind-up reel that tucks away neatly under the monitor, is included for safe operation on all surfaces. The main body is hardcoat anodized aluminum with a blue TFT powder coat finish inside and out.

XXL111A

15.4 lb (6.9kg)

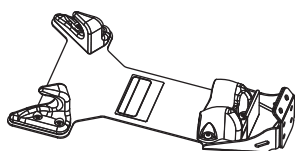


Anchor Strap Included

XXL111A BLITZ LITE MONITOR Flow range up to 500 gpm (2000 l/min). The monitor features low friction outlet pivot. Elevation is adjustable between 30 to 60 degrees unmanned, and down to 20 degrees when manned. Horizontal rotation is manually adjustable 20 degrees either side of center. When the legs are folded or unfolded, the drag mechanism in the legs provide added resistance so they stay in position. The heavy-duty carbide tipped legs are easily folded out to a wide deployed stance. Stowed in storage bracket overall size is 19.2"L x 9.1"W x 11.9"H (48.7 x 23.1 x 30.2cm). Standard inlet is 2.5"NH (65mm) rocker lug swivel coupling. Standard outlet is 2.5"NH (65mm) rigid male threads.

XXL-B

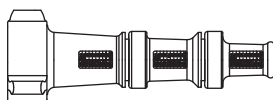
2.8 lb (1.3kg)



XXL-B STORAGE BRACKET BLITZ LITE This stainless steel and engineered polymer storage bracket can be mounted for easy and rapid deployment of a pre-connected Blitz Lite. Mount on any accessible vertical or horizontal surface. Comes complete with mounting screws. 15.0"L x 8.25"W x 3.1"H (38.1 x 20.9 x 7.8 cm)

MST-3NJ

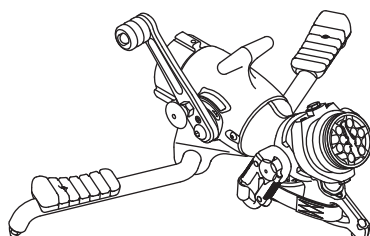
2.3 lb (1.0kg)
11.80" (3.0cm)



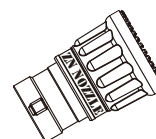
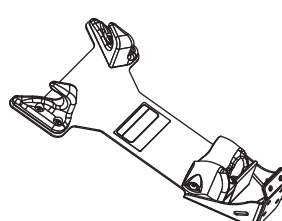
MST-3NJ 3 STACKED TIPS Hardcoat anodized aluminum alloy for maximum corrosion protection. Flow charts for each tip are lasered. Tip sizes are 1.5", 1.25", and 1.0" (38, 32 and 25mm) diameter. Small tips may be removed for break and extend operations with a 1.5" NH (38mm) hose thread. Standard swivel inlet is 2.5" NH (65mm).

BLITZ LITE™ PACKAGE

XXLC-32



Anchor Strap Included



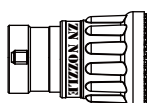
XXLC-32 PACKAGE CONTAINS:

BLITZ LITE MONITOR (Specify Inlet & Outlet)
STORAGE BRACKET (BLITZ LITE)
ZN Nozzle (Specify Inlet & Model)

Choose one option from each category. For example Model ZN 1 2 A is 2.5" NH Female thread, 500 gpm at 100 psi nozzle. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.

ZN**A

ZN



See page 106
for description

A

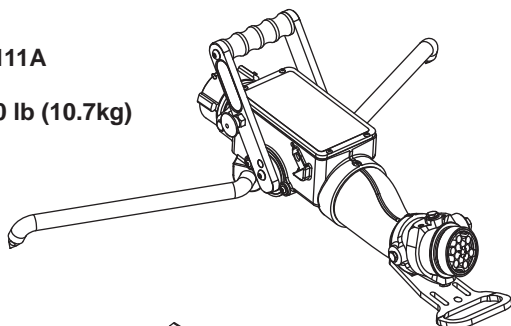
THREADS (Rigid)	FLOW
1) 2.5"-7.5 TPI NH FEMALE 2) 2.5"-11 TPI BSP FEMALE 3) 2.5"-11.5 TPI NPSH FEMALE 4) 2.5" CODE-AT (CSA)	2) 500 GPM AT 100 PSI — Kfactor = 50 (2000 l/min @ 7 bar)
2.5" = 65mm	

Portable Monitor with Safety Shut-Off Valve

The Task Force Tips' Blitzfire is a simple, light, and highly maneuverable attack monitor. The Blitzfire's low elevation angle makes it suitable for use indoors. It can go anywhere a handline goes while delivering much more water. If the Blitzfire starts to slide or lift, the SAFETY SHUT-OFF VALVE automatically shuts off the flow of water. This patented safety feature reduces the risk of injury from an out-of-control appliance. The shut-off action slows near stroke end to eliminate water hammer. To reset the flow, simply open the valve to any of six detent flow positions with the turbulence-free slide valve. The Blitzfire's discharge pivots make directing the stream extremely quick and effortless. Outlet has built-in stream shaper. A unique up/down pivot on the hose inlet allows the monitor to have stability even on porches, stair landings or the like. An anchor strap is included for safe operation on slick surfaces like marble floors. The main body is hardcoat anodized aluminum with a blue TFT powder coat finish inside and out.

XX111A

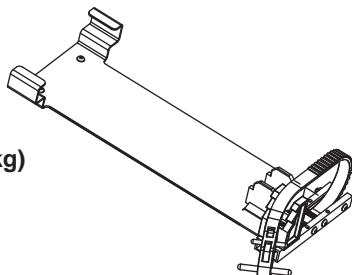
22.0 lb (10.7kg)



XX111A BLITZFIRE MONITOR Flow range up to 500 gpm (2000 l/min). The monitor features low friction inlet and outlet pivots. Outlet has built-in stream shaper. Elevation is manually adjustable between 10 and 50 degrees above horizontal. Horizontal rotation is manually adjustable 20 degrees either side of center. The SAFETY SHUT-OFF VALVE will shut off flow if monitor slides or lifts. It has six detent flow positions with a patented turbulence free slide valve for operator flow control. When the legs are folded, the carbide tips point up for carrying safety. The heavy-duty carbide tipped legs are easily folded out to a wide deployed stance. Stowed in storage bracket overall size is 29.5"L x 8.1"W x 8.5"H (74.9 x 20.6 x 21.6 cm). Standard inlet is 2.5" NH (65mm) rocker lug swivel coupling. Standard outlet is 2.5" NH (65mm) rigid male threads.

XX-B

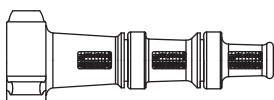
3.4 lb (1.5kg)



XX-B STORAGE BRACKET BLITZFIRE This stainless steel and hard coat aluminum storage bracket can be mounted for rapid deployment of a pre-connected Blitzfire. Mount on any accessible vertical or horizontal surface. Comes complete with mounting screws. 20"L x 8.5"W x 2"H (50.8 x 21.6 x 5.1cm)

MST-3NJ

2.3 lb (1.0kg)
11.80" (3.0cm)



MST-3NJ 3 STACKED TIPS Hardcoat anodized aluminum alloy for maximum corrosion protection. Flow charts for each tip are lasered. Tip sizes are 1.5", 1.25", and 1.0" (38, 32 and 25mm) diameter. Small tips may be removed for break and extend operations with a 1.5" NH (38mm) hose thread. Standard swivel inlet is 2.5" NH (65mm).

MAX-SERIES NOZZLES

FoamJet Model for Max-Series FJ-LX-MD

MAX-FORCE

MD12A

6.7 lb (3.0kg)
9.00" (22.9cm)



MD12A MAX-FORCE DUAL PRESSURE AUTOMATIC TIP 2.5" NH (65mm) - with a flow capacity of 100-500 gpm (400-2000 l/min). The nozzle may be switched between standard 100 psi (7bar) and a low pressure mode 55 psi (4bar) by twisting a knob on the front of the nozzle. The pattern adjusts from straight stream to a 120 degree wide fog. Further rotation opens the tip to flush 3/8" (10mm) debris without shutting down. Hardcoat anodized aluminum with rubber bumper. Standard inlet is 2.5"NH (65mm) rocker lug swivel.

MAX-MATIC

MD18A

MD17A

6.5 lb (2.9kg)
9.00" (22.9cm)



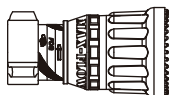
MD18A MAX-MATIC 100 PSI AUTOMATIC TIP 2.5" NH (65mm) - Automatic pressure control with a flow capacity of 100-500 gpm (400-2000 l/min). The nozzle operates at a standard 100 psi (7bar). The pattern adjusts from straight stream to a 120 degree wide fog. Further rotation opens the nozzle to flush 3/8" (10mm) debris without shutting down. Hardcoat anodized aluminum with rubber bumper. Standard inlet is 2.5" NH (65mm) rocker lug swivel.

MD17A MAX-MATIC 80 PSI - LOW PRESSURE VERSION – Same as MD18A above, but operates at a low pressure of approximately 80 psi (6bar).

MAX-FLOW

MD14A

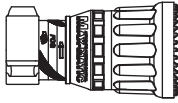
6.5 lb (2.9kg)
9.00" (22.9cm)



MD14A MAX-FLOW 500 GPM FIXED GALLONAGE - (2000 l/min) The fixed orifice tip is ideal for high rise attack when pressure fluctuations can be extreme. The nozzle will operate with pressures as low as 30 psi (2bar). The pattern adjusts from straight stream to a 120 degree wide fog. Further rotation opens the nozzle to flush 3/8" (10mm) debris without shutting down. Hardcoat anodized aluminum with rubber bumper. Standard inlet is 2.5"NH (65mm) rocker lug swivel.

How to order a Max-Series Nozzle

Choose one option from each category. For example, Model MD27A is a MAX-MATIC low pressure 80 psi (6 bar) automatic nozzle with BSP threads. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.



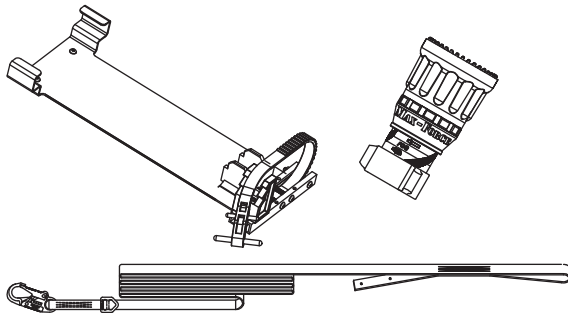
MD

INLET (Swivel)	PRESSURE FLOW OPTIONS
1) NH FEMALE	2 = Dual Pressure 55 / 100 PSI (4/7 bar)
2) BSP FEMALE	4 = Fixed Gallonage 500 GPM (2000 l/min)
3) NPSH FEMALE	7 = Automatic Low Pressure 80 PSI (6 bar)
4) SPECIAL THREADS	8 = Automatic 100 PSI (7 bar)

A

Combination Packages **BLITZFIRE®** Portable Monitor with Safety Shut-Off Valve

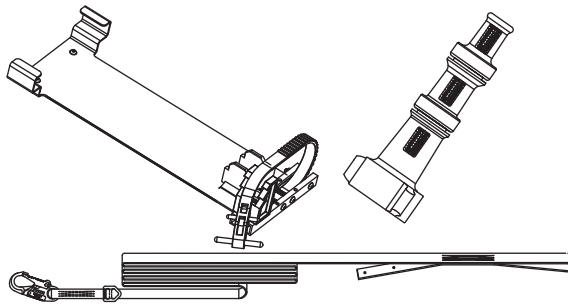
XXC-32



XXC-32 PACKAGE CONTAINS:
BLITZFIRE MONITOR (Specify Inlet & Outlet)
STORAGE BRACKET (BLITZFIRE)
MAX-SERIES TIP (Specify Inlet & Model)

SAVE in package over separate purchase

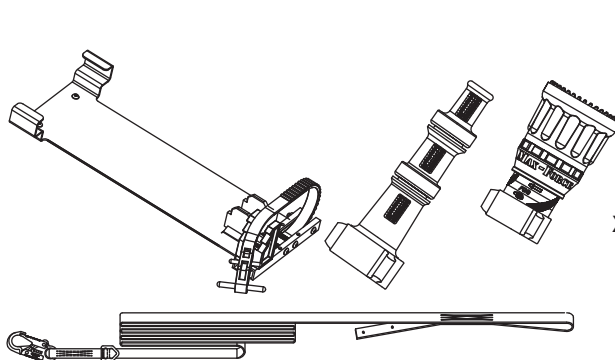
XXC-42



XXC-42 PACKAGE CONTAINS:
BLITZFIRE MONITOR (Specify Inlet & Outlet)
STORAGE BRACKET (BLITZFIRE)
3 STACKED TIPS (Specify Inlet)

SAVE in package over separate purchase

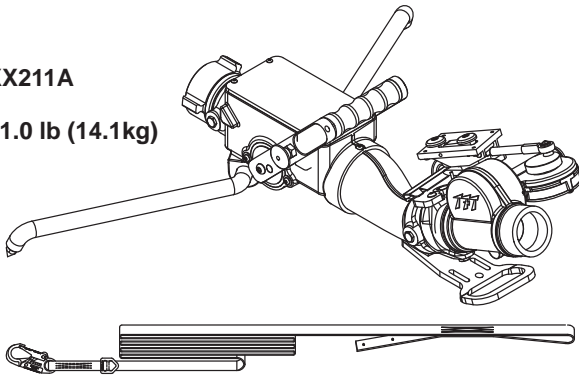
XXC-52



XXC-52 PACKAGE CONTAINS:
BLITZFIRE MONITOR (Specify Inlet & Outlet)
STORAGE BRACKET (BLITZFIRE)
MAX-SERIES TIP (Specify Inlet & Model)
3 STACKED TIPS (Specify Inlet)

SAVE in package over separate purchase

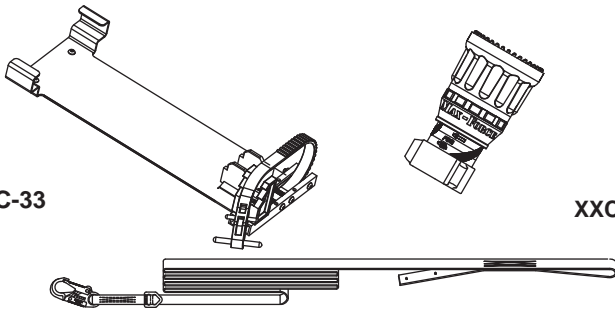
Oscillating Monitor

XX211A**31.0 lb (14.1kg)**

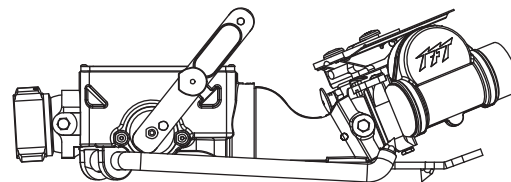
XX211A BLITZFIRE OSCILLATING MONITOR Flow range up to 500 gpm (2000 l/min). The monitor features low friction inlet and outlet pivots. Elevation is manually adjustable between 10 and 50 degrees above horizontal. The water driven turbine makes the nozzle automatically sweep 10, 15, or 20 degrees either side of center. The oscillating mechanism can be disengaged and horizontal rotation moved manually. The SAFETY SHUT-OFF VALVE will shut off flow if monitor slides or lifts. It has six detent flow positions with a patented turbulence-free slide valve for operator flow control. When the legs are folded, the carbide tips point up for carrying safety. The heavy-duty carbide tipped legs are easily folded out to a wide deployed stance. Stowed in storage bracket overall size is 34.8"L x 10.5"W x 9.6"H (88.4 x 26.7 x 24.4 cm). Standard inlet is 2.5" NH (65mm) swivel rocker lug coupling. Standard outlet is 2.5" NH rigid male threads.

**Add Oscillating Feature to an existing Blitzfire.
Contact Service Department at 1-800-348-2686.**

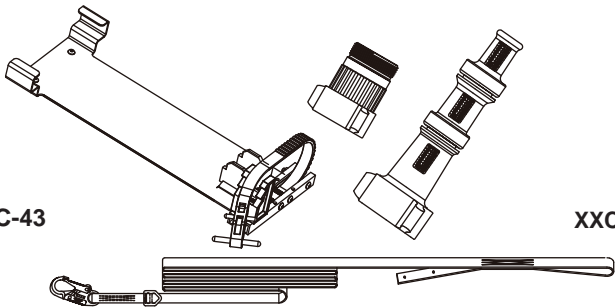
OSC COMBINATION PACKAGES

XXC-33

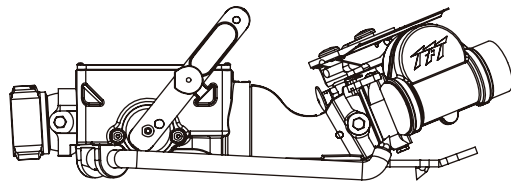
XXC-33 PACKAGE CONTAINS:
BLITZFIRE OSC MONITOR (Specify Inlet & Outlet)
STORAGE BRACKET (BLITZFIRE)
MAX-SERIES TIP (Specify Inlet & Model)



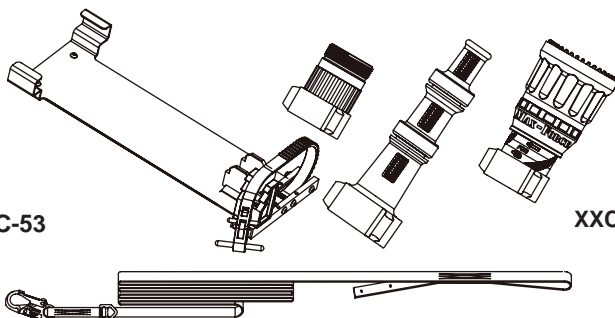
SAVE in package over separate purchase

XXC-43

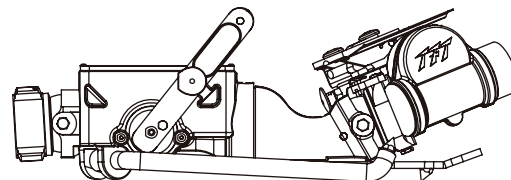
XXC-43 PACKAGE CONTAINS:
BLITZFIRE OSC MONITOR (Specify Inlet & Outlet)
STORAGE BRACKET (BLITZFIRE)
3 STACKED TIPS (Specify Inlet)
5" (125mm) STREAM STRAIGHTENER (Specify Inlet & Outlet)



SAVE in package over separate purchase

XXC-53

XXC-53 PACKAGE CONTAINS:
BLITZFIRE OSC MONITOR (Specify Inlet & Outlet)
STORAGE BRACKET (BLITZFIRE)
MAX-SERIES TIP (Specify Inlet & Model)
3 STACKED TIPS (Specify Inlet)
5" (125mm) STREAM STRAIGHTENER (Specify Inlet & Outlet)



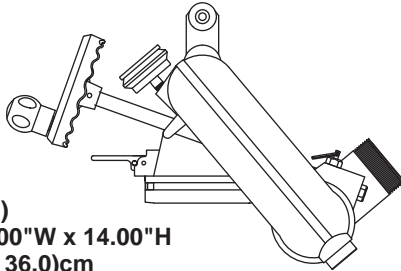
SAVE in package over separate purchase

Portable/Deck Gun Monitor

The CROSSFIRE monitor is the most versatile master stream appliance ever offered to the fire service. Its lightweight, compact design and unique quick-release swivel joint allow for a faster and safer stream deployment in the portable attack mode. The Safe-Tak 1250 utilizes the revolutionary, patented Safe-Tak "flow safety valve." Should the monitor lose contact with the ground surface, the Safe-Tak will automatically reduce flow to the monitor. This safety feature reduces the risk of injury from an out-of-control appliance. Monitor top and base are hardcoat anodized aluminum with a powder coat finish inside and out.

XFT-NJ

17.0 lb (7.5kg)
22.00"L x 14.00"W x 14.00"H
(56.0 x 36.0 x 36.0)cm

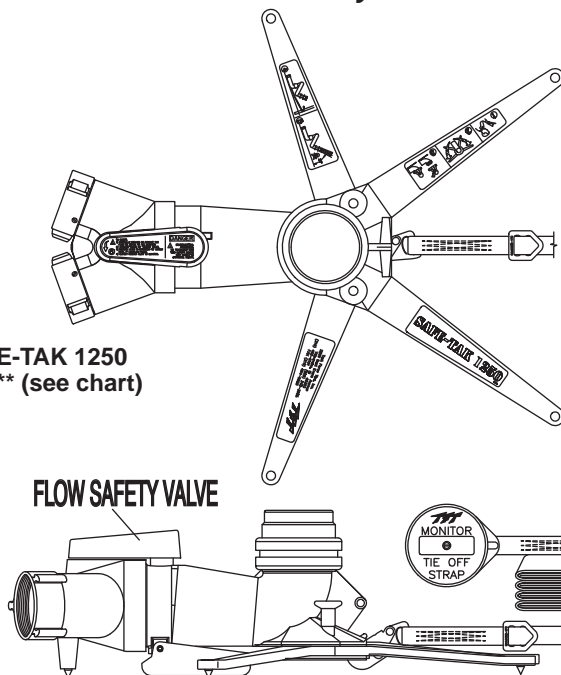


XFT-NJ CROSSFIRE MONITOR TOP 2.5"NH (65mm) OUTLET can be connected to either a portable base or a truck with the adapters on page 79 or a TFT Extend-A-Gun with XL outlet on page 80. The connection is easy, positive, and visually verified. When in use, the release is "locked out" by water pressure. The waterway is a large 3.25" (83mm) which lets the CROSSFIRE deliver up to 1250 gpm (4500 l/min) with low friction loss. Horizontal rotation is securely locked with a simple lever, and position can be visually confirmed. Only seven (7) turns of the handwheel change the discharge elbow from vertical to the stop elevation. Includes highly visible pressure gauge and built-in automatic drain valve. Standard outlet thread is male 2.5" NH (65mm).

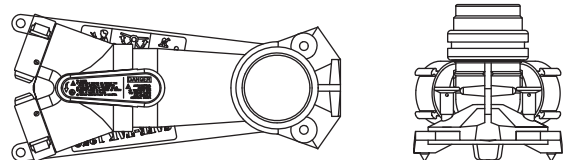
SAFE-TAK 1250™

Portable Base With Safety Valve

SAFE-TAK 1250
XFH (see chart)**

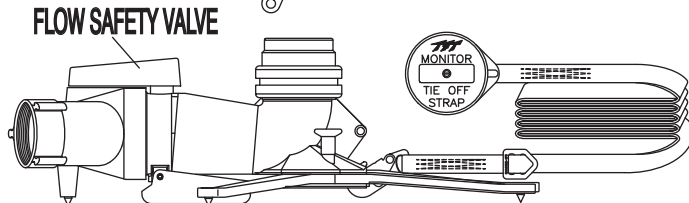


SAFE-TAK 1250 PORTABLE BASE WITH SAFE-TAK VALVE is supplied with either two clappered swivel inlets or with a single full-time swivel inlet. The stainless steel, carbide-tipped base support legs can be folded to easily fit inside a small apparatus compartment, or for carrying pre connected to a hose line. Includes a safety tie-down strap with attached storage cap.

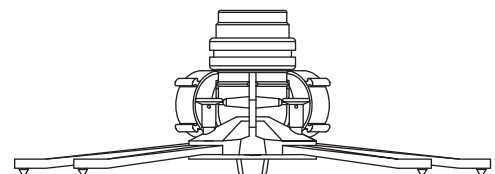


Legs Fold Completely for Easy Storage.

STOW-A-WAY 800
XFL (see chart)**



The **STOW-A-WAY 800 PORTABLE BASE WITHOUT SAFE-TAK VALVE** is supplied with either two clappered swivel inlets or with a single full-time swivel inlet. Includes a safety tie-down strap with attached storage cap. STOW-A-WAY 800 portable base is not equipped with SAFE-TAK™ "Flow Safety Valve." Maximum recommended flow with Stow-A-Way Base in portable mode is 800 gpm (3500 l/min). Order XF500-KIT Option \$500.00 to add a flow safety valve. Weight of safety valve is 3.1 lb (1.4kg).

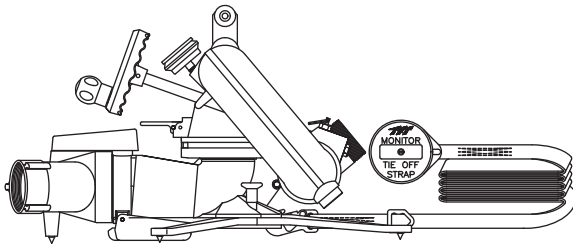


PORTABLE BASE INLET CHART - Please specify inlet thread.

Safe-Tak 1250 Model #	Stow-A-Way 800 Model #	# Inlets	Inlet Size	Length		Width		Height		Safe-Tak 1250		Stow-A-Way 800	
				in	cm	in	cm	in	cm	lbs	kg	lbs	kg
XFH-1NL	XFL-1NL	1	3.0" NH (75mm)	20.6	52.3	8.1	20.1	8.9	22.6	25.4	11.5	22.3	10.1
XFH-1NN	XFL-1NN	1	3.5" NH (90mm)	20.6	52.3	8.1	20.1	8.9	22.6	25.6	11.6	22.5	10.2
XFH-1NP	XFL-1NP	1	4.0" NH (100mm)	20.8	52.3	8.1	20.1	8.9	22.6	26.2	11.9	23.1	10.4
XFH-1NR	XFL-1NR	1	4.5" NH (115mm)	20.8	52.3	8.1	20.1	8.9	22.6	26.3	12.0	23.2	10.5
XFH-1SP	XFL-1SP	1	4" Storz (100mm)	21.3	54.1	8.1	20.1	8.9	22.6	27.0	12.2	23.0	10.4
XFH-1ST	XFL-1ST	1	5" Storz (125mm)	21.6	54.9	8.1	20.1	8.9	22.6	28.7	13.0	25.6	11.6
XFH-1SX	XFL-1SX	1	6" Storz (150mm)	21.9	55.6	8.1	20.1	8.9	22.6	30.4	13.7	28.2	12.7
XFH-2NJ	XFL-2NJ	2	2.5" NH (65mm)	19.7	50.0	9.3	23.5	8.9	22.6	23.8	10.8	20.7	9.4

Dimensions are with legs folded. With legs unfolded, add 8.5" (215.9CM) to length. Width is 25.8" (655.3cm) in all cases.

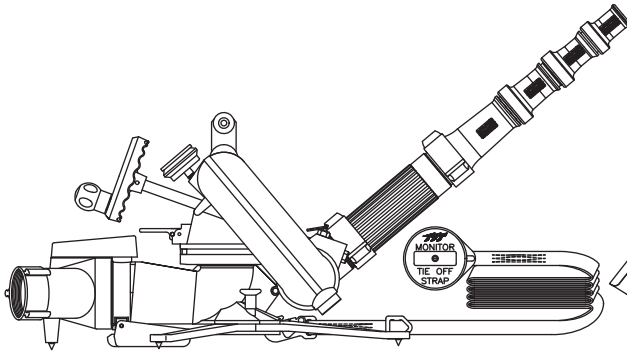
XFC-12



XFC-12 PACKAGE CONTAINS:
SAFE-TAK Base (Specify Inlet)
CROSSFIRE Storage Bracket
CROSSFIRE Monitor Top (Specify Outlet)

SAVE in package over separate purchase

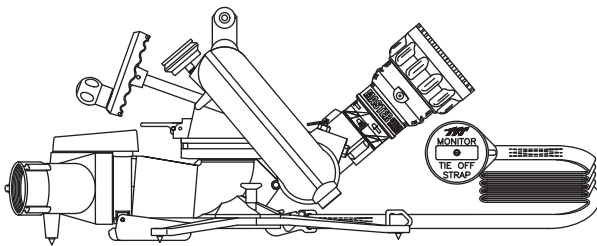
XFC-42



XFC-42 PACKAGE CONTAINS:
SAFE-TAK Base (Specify Inlet)
CROSSFIRE Storage Bracket
CROSSFIRE Monitor Top (Specify Outlet)
Quad Stack Tips (Specify Inlet)
5" or 10" (127 or 254mm) Stream Straightener
(Specify Inlet & Outlet)

SAVE in package over separate purchase

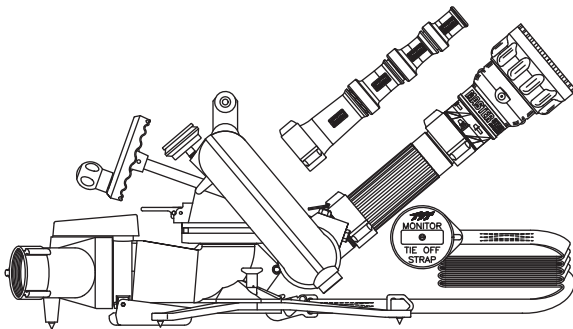
XFC-32



XFC-32 PACKAGE CONTAINS:
SAFE-TAK Base (Specify Inlet)
CROSSFIRE Storage Bracket
CROSSFIRE Monitor Top (Specify Outlet)
Any Master Stream 1000 or 1250S Nozzle
(Specify Inlet)

SAVE in package over separate purchase

XFC-52

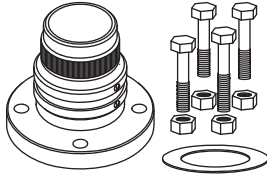


XFC-52 PACKAGE CONTAINS:
SAFE-TAK Base (Specify Inlet)
CROSSFIRE Storage Bracket
CROSSFIRE Monitor Top (Specify Outlet)
Any Master Stream 1000 or 1250S Nozzle
(Specify Inlet)
Quad Stack Tips (Specify Inlet)
5" or 10" (127 or 254mm) Stream Straightener
(Specify Inlet & Outlet)

SAVE in package over separate purchase

Accessories

XFF-MPL
XFF-MPP

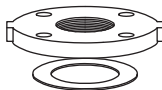


XFF-MPL - FLANGE MOUNT 3" ANSI 150 INLET (75mm)

XFF-MPP - FLANGE MOUNT 4" ANSI 150 & 4" NPT F INLET (102mm) For use on riser with companion flange. Compact, hardcoat anodized aluminum adapter allows the CROSSFIRE monitor to be easily utilized as a truck mounted deluge appliance. Hardware and gasket included.

MODEL	FLANGE	BOLTS	INT.THDS	HGT	DIA	WT
XFF-MPL	3" ANSI 150#	4) 5/8-11X3	NONE	5" (12.7cm)	7.50" (19.1cm)	6.9 lb (2.4kg)
XFF-MPP	4" ANSI 150#	8) 5/8-11X3	4 NPT F	8" (20.3cm)	9.00" (22.9cm)	11.0 lb (3.1kg)

XFF-CPL
XFF-CPP



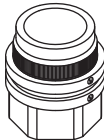
XFF-CPL - COMPANION FLANGE KIT 3" ANSI 150

XFF-CPP - COMPANION FLANGE KIT 4" ANSI 150 - 3" or 4" NPT, 150 lb. ANSI cast aluminum, gasket included. Uses 5/8" (15.8mm) bolts (not included)

MODEL	THREADS	FLANGE	BOLTS REQ.	DIA.	WT
XFF-CPL	3 NPT F	3" ANSI 150#	4	7.50" (19.1cm)	3.0 lb (1.4kg)
XFF-CPP	4 NPT F	4" ANSI 150#	8	9.00" (22.9cm)	4.4 lb (2.0kg)

XFF-APL

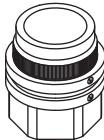
3.1 lb (1.4kg)



XFF-APL - TRUCK ADAPTER, 3.0" NPT FEMALE Can be screwed directly on a 3.0" NPT (75mm) male thread. This compact, hardcoat anodized adapter allows the Crossfire monitor to be easily utilized as a truck mounted deluge appliance. 4.5" dia. (110mm) Height: 5.0" (125mm)

XFF-RLF

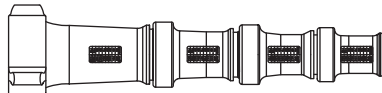
4.2 lb (1.9kg)



XFF-RLF - EXTEND-A-GUN RC3/CROSSFIRE ADAPTER - This compact, hardcoat anodized adapter attaches to the electronically raised Extend-A-Gun RC3, allowing the Crossfire monitor to be easily utilized as a truck mounted deluge appliance. 6.7" dia. (170mm) Height: 7.0" (178mm)

MST-4NJ

3.1 lb (1.4kg)



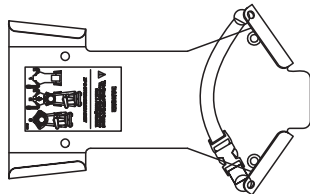
MST-4NJ - 4 STACKED TIPS, 2.5" NH (65mm) Designed for monitor use, these lightweight tips are hardcoat anodized, allow four orifice options in one, and have pressure/flow charts laser engraved on each tip. 2.5" NH (65mm) swivel coupling is standard. Orifice openings are 2", 1.75", 1.5", and 1.375". (50mm, 45mm, 38mm and 35mm) Length 16.90". (42.9cm)

MST-4NN

MST-4NN - 4 STACKED TIPS, 3.5" NH (89mm) Same as above (MST-4NJ) but with 3.5" NH (89mm) swivel coupling is standard.

XF-B

3.1 lb (1.4kg)

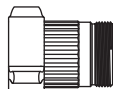


XF-B - CROSSFIRE STORAGE BRACKET A 13 ga., 304 stainless steel bracket with strap holds the Stow-A-Way 800 or the Safe-Tak 1250 portable base securely while being transported. This 14.75" x 7.75" x 2" (37.5 x 19.7 x 5.1 cm) bracket can be mounted vertically or horizontally in any position, including the top or underside of a shelf, on a side wall, or on a compartment door. Includes quick release storage strap.

XF-SS5

1.8 lb (0.8kg)

XF-SS5-NN



XF-SS5 - STREAM STRAIGHTENER 5" L. 2.5" NH (65mm) THREADS

XF-SS10 - STREAM STRAIGHTENER 10" L. 2.5" NH (65mm) THREADS - Extruded aluminum vanes straighten smooth bore streams to provide greater reach with less turbulence. 2.5" NH (65mm) RIGID inlet and outlet threads are standard. XF-SS5 = 5" (125mm) vane length and XF-SS10 = 10" (250mm) vane length.

XF-SS10

3.5 lb (1.9kg)

XF-SS10-NN



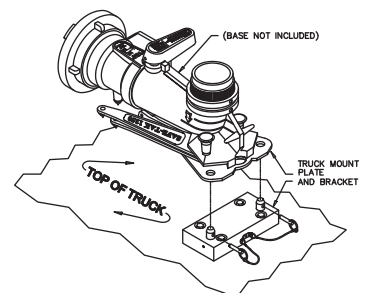
XF-SS5-NN - STREAM STRAIGHTENER 5" L. 3.5" NH (89mm) THREADS - Same as XF-SS5 above but with 3.5" inlet x 2.5" outlet. 4.6lb (1.6kg)

XF-SS10-NN - STREAM STRAIGHTENER 10" L. 3.5" NH (89mm) THREADS- Same as XF-SS10 above but with 3.5" inlet x 2.5" outlet. 6.25 lb (2.8kg)

XF400-KIT

7.8 lb (3.5kg)

XF400-KIT - TRUCK MOUNTING BLOCK KIT for direct mounting of the portable base on a truck deck. Allows for use as a deck gun and can be easily removed for portable use when needed. Includes truck mount block with anchor pins and bottom plate for Stow-A-Way 800 or Safe-Tak 1250 portable base.

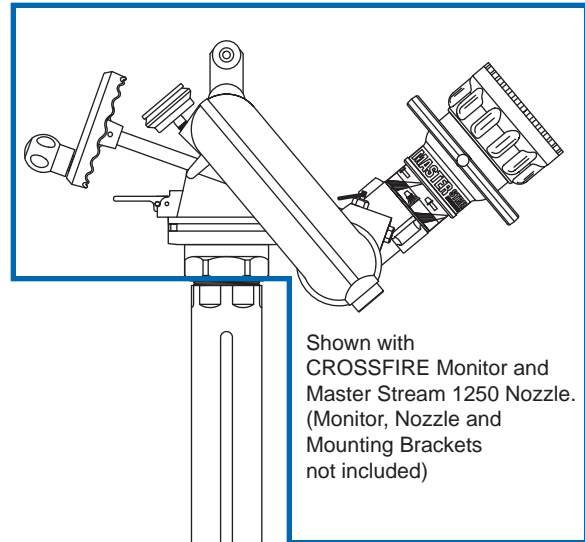
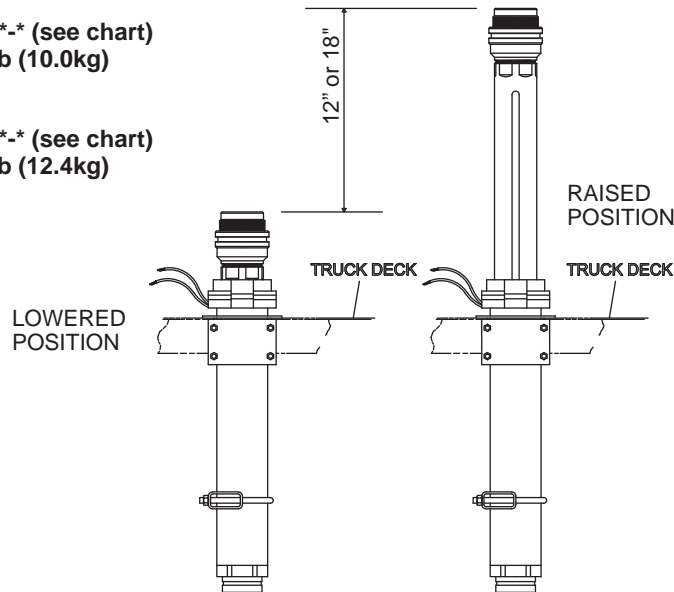


3" Manual Telescoping Waterway

The Extend-A-Gun provides new capabilities for your deck mounted Master Stream device. For storage, it can be lowered to deck level (or even into a monitor well). On the fire ground, the monitor may be raised to its extended position (12 or 18 extra inches)(30.5 or 45.7 extra cm) by lifting the quick release and raising by hand until the non-rotating pipe locks into position. This gives greater clearance of other equipment on the apparatus, greater freedom of movement and allows a more comfortable operating position. The Extend-A-Gun offers a full 3" (75mm) waterway, hardcoat anodized finish, and built-in sensor for connection to "monitor raised" light or truck open compartment warning. Can be specified with new, or retrofitted to existing apparatus.

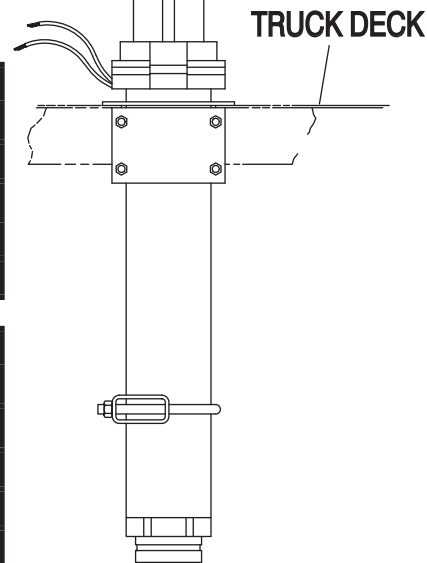
XG12*-* (see chart)
22.0 lb (10.0kg)

XG18*-* (see chart)
27.4 lb (12.4kg)



CROSSFIRE OUTLET: ONLY FITS CROSSFIRE MONITOR TOP			
INLET	MODEL#	EXTENSION	PRICE
3" TAPER PIPE MALE (75mm)	XG12PL-XL	12.00" (30.5cm)	
	XG18PL-XL	18.00" (45.7cm)	
3" VICTAULIC (75mm)	XG12VL-XL	12.00" (30.5cm)	
	XG18VL-XL	18.00" (45.7cm)	

OUTLET: 3" NPT (TAPER PIPE MALE) FITS ANY MONITOR TOP			
INLET	MODEL#	EXTENSION	PRICE
3" TAPER PIPE MALE (75mm)	XG12PL-PL	12.00" (30.5cm)	
	XG18PL-PL	18.00" (45.7cm)	
3" VICTAULIC (75mm)	XG12VL-PL	12.00" (30.5cm)	
	XG18VL-PL	18.00" (45.7cm)	



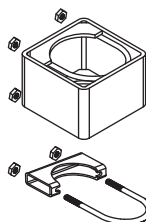
3" BRACKET SETS

For safe dependable service, the Extend-A-Gun MUST be securely mounted. To make the Extend-A-Gun as versatile as possible, three mounting bracket kits are offered. Each kit has a different upper bracket. The lower bracket is the same in all three.

XGB-13

10.2 lbs (4.6kg)

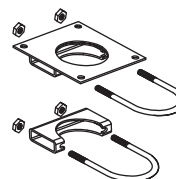
XGB-13
TUBE/SADDLE



XGB-23

8.2 lbs (3.7kg)

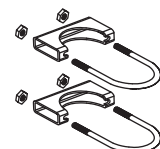
XGB-23
PLATE/SADDLE



XGB-33

5.0 lbs (2.3kg)

XGB-33
SADDLE/SADDLE

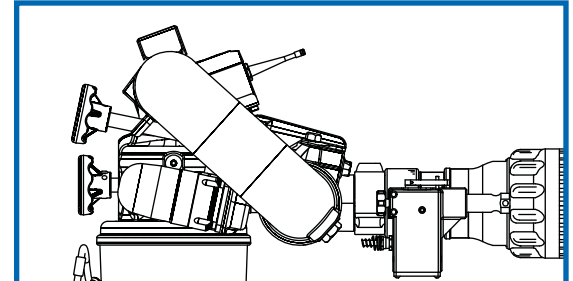
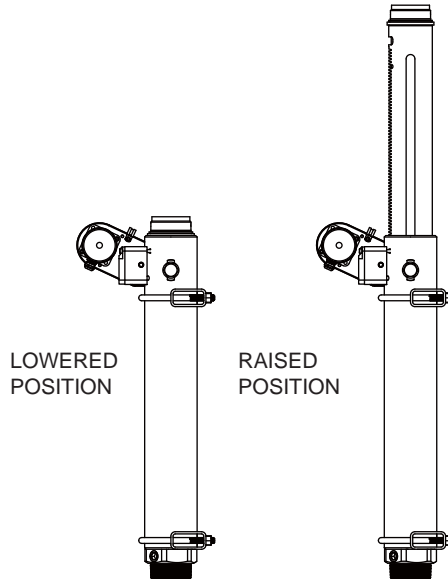


3" Remote Controlled Telescoping Waterway

The Extend-A-Gun RC3 lets you lower your deck mounted Master Stream device to deck level for storage (or even into a well). On the fire ground, the monitor can be automatically raised to its extended position (12 or 18 extra inches) (30.5 or 45.7 extra cm) with a simple push of a button. This gives greater clearance of other equipment on the apparatus, greater freedom of movement, and keeps firefighters off the top of the trucks, thus providing a safer operating position. The Extend-A-Gun RC3 offers a 3" (75mm) waterway, and hardcoat anodized aluminum finish. Built-in sensor for connection to "monitor raised" light or truck open compartment warning. Connecting RC Extend-A-Gun motor control box to RC monitor communication link (blue & white wires) allows RC Extend-A-Gun operation from any monitor operator station equipped with AUX1 button or input. Can be specified with new or retrofitted to existing apparatus.

XGA32*-* (see chart)
12" Extend-A-Gun
26.6 lbs (12kg)

XGA38*-* (see chart)
18" Extend-A-Gun
32 lbs (14.5kg)



Shown with
HURRICANE Monitor and
Master Stream 1250SER Nozzle.
(Monitor, Nozzle and
Mounting Brackets
not included)

TFT CODE-RLM OUTLET*			
INLET	MODEL#	EXTENSION	PRICE
3" BSP (7.6cm)	XGA32BL-RL	12" (30.5cm)	
3" BSP (7.6cm)	XGA38BL-RL	18" (45.7cm)	
3" NPT (7.6cm)	XGA32PL-RL	12" (30.5cm)	
3" NPT (7.6cm)	XGA38PL-RL	18" (45.7cm)	
3" VICTAULIC	XGA32VL-RL	12" (30.5cm)	
3" VICTAULIC	XGA38VL-RL	18" (45.7cm)	

* Fits inlet of Tornado RC, Hurricane RC, Typhoon RC or Monsoon RC monitors with 3" connection code-RLF.

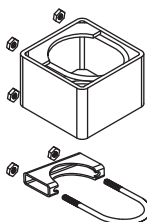
3" BRACKET SETS

For safe dependable service, the Extend-A-Gun RC3 MUST be securely mounted. To make the Extend-A-Gun as versatile as possible, three mounting bracket kits are offered. Each kit has a different upper bracket. The lower bracket is the same in all three.

XGB-13

10.2 lbs (4.6kg)

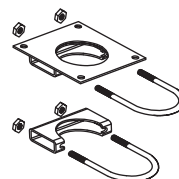
**XGB-13
TUBE/SADDLE**



XGB-23

8.2 lbs (3.7kg)

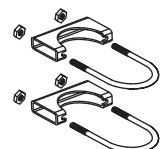
**XGB-23
PLATE/SADDLE**



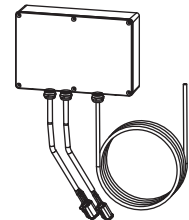
XGB-33

5.0 lbs (2.3kg)

**XGB-33
SADDLE/SADDLE**



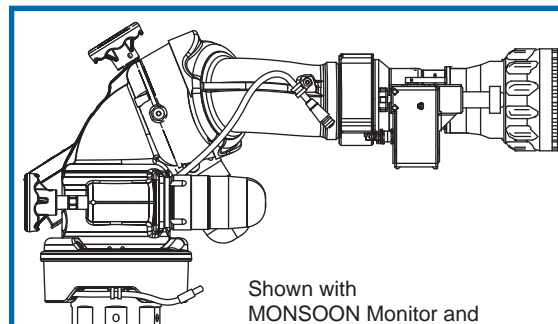
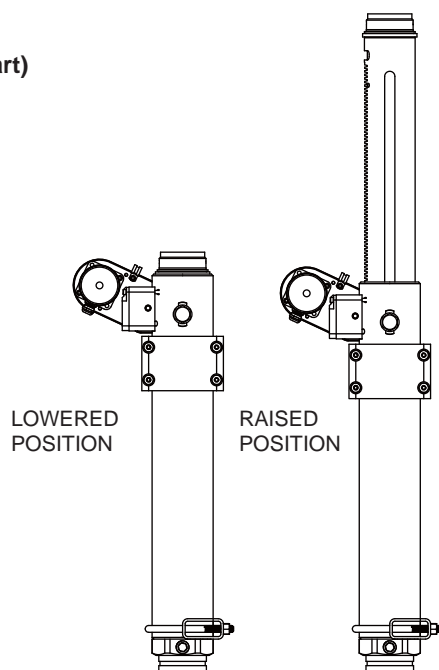
CONTROL BOX
(complete with 10 ft (3m) of power
& communication cable for con-
nection to monitor communication
link & power, 10 ft (3m) of cable for
connection to RC monitor, and 12
ft (3.6m) of cable for connection to
RC Extend-A-Gun motor)



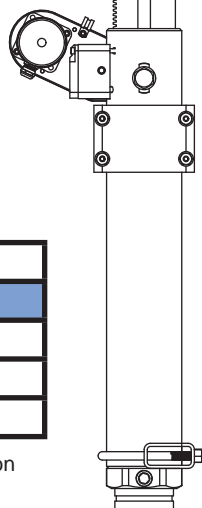
4" Remote Controlled Telescoping Waterway

The Extend-A-Gun RC4 lets you lower your deck mounted Master Stream device to deck level for storage (or even into a well). On the fire ground, the monitor can be automatically raised to its extended position (18 extra inches or 45.7 extra cm) with a simple push of a button. This gives greater clearance of other equipment on the apparatus, greater freedom of movement, and keeps firefighters off the top of the trucks, thus providing a safer operating position. The Extend-A-Gun RC4 offers a 4" (100mm) waterway, and hardcoat anodized aluminum finish. Built-in sensor for connection to "monitor raised" light or truck compartment operator warning system. Connecting RC Extend-A-Gun motor control box to RC monitor communication link (blue & white wires) allows RC Extend-A-Gun operation from any monitor operator station equipped with AUX1 button or input. Can be specified with new or retrofitted to existing apparatus.

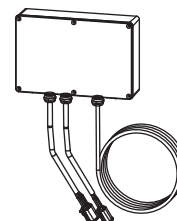
XGA48*-* (see chart)
47 lbs (21.3 kg)



Shown with
MONSOON Monitor and
Master Stream 2000ER Nozzle.
(Monitor, Nozzle and
Mounting Brackets
not included)



CONTROL BOX
(complete with 10 ft (3m) of power & communication cable for connection to monitor communication link & power, 10 ft (3m) of cable for connection to RC monitor, and 12 ft (3.6m) of cable for connection to RC Extend-A-Gun motor)



TFT CODE-RPM OUTLET*			
INLET	MODEL#	EXTENSION	PRICE
4" BSP (10cm)	XGA48BP-RP	18" (45.7cm)	
4" NPT (10cm)	XGA48PP-RP	18" (45.7cm)	
4" VICTAULIC	XGA48VP-RP	18" (45.7cm)	

* Fits inlet of Hurricane RC, Typhoon RC or Monsoon RC monitors with 4" connection code-RPF.

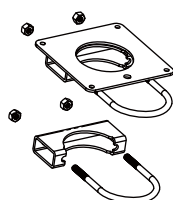
4" BRACKET SETS

For safe dependable service, the Extend-A-Gun RC4 MUST be securely mounted. To make the Extend-A-Gun as versatile as possible, the 4" mounting brackets come in two styles. Each kit has a different upper bracket. The lower bracket is the same for both.

XGB-43

17.8 lbs (8.1kg)

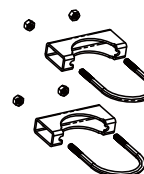
**XGB-43
PLATE/SADDLE**



XGB-53

11.4 lbs (5.1kg)

**XGB-53
SADDLE/SADDLE**



Remote Control Monitors and Extend-A-Gun Packages for Apparatus

Manual Monitors and Extend-A-Gun Packages for Apparatus

Remote Control

- 1250 gpm Hurricane Monitor
- 1500 gpm Typhoon Monitor
- 2000 gpm Monsoon Monitor
- Extend-A-Gun RC3 or RC4
- Automatic Nozzles
- Stacked Tips

Manual Control

- 1250 gpm Crossfire Monitor
- Extend-A-Gun

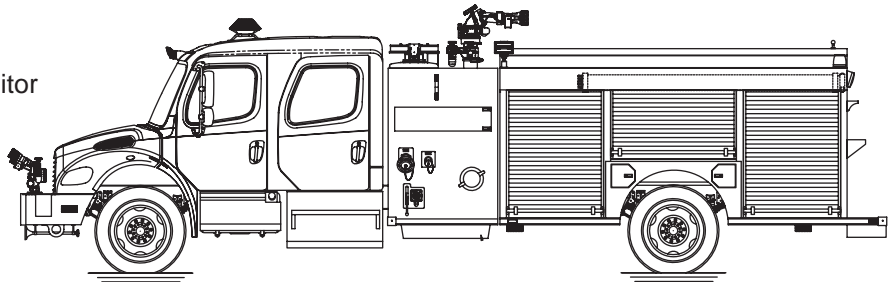
Crossfire Packages

- XFC-71, XFC-72,
- XFC-73, XFC-62

Remote Control

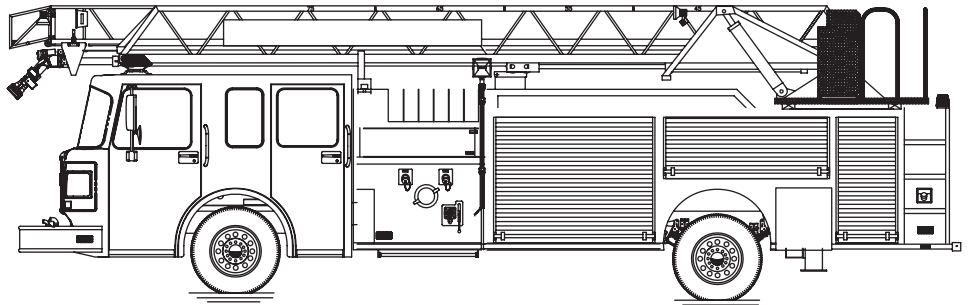
- 500 gpm Tornado Monitor
- Nozzles

Tornado Packages



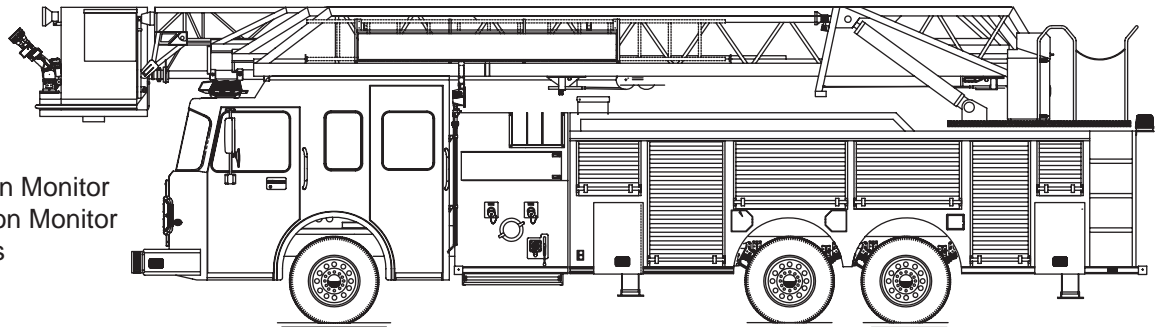
Remote Control

- 1500 gpm Typhoon Monitor
- 2000 gpm Monsoon Monitor
- Automatic Nozzles



Remote Control

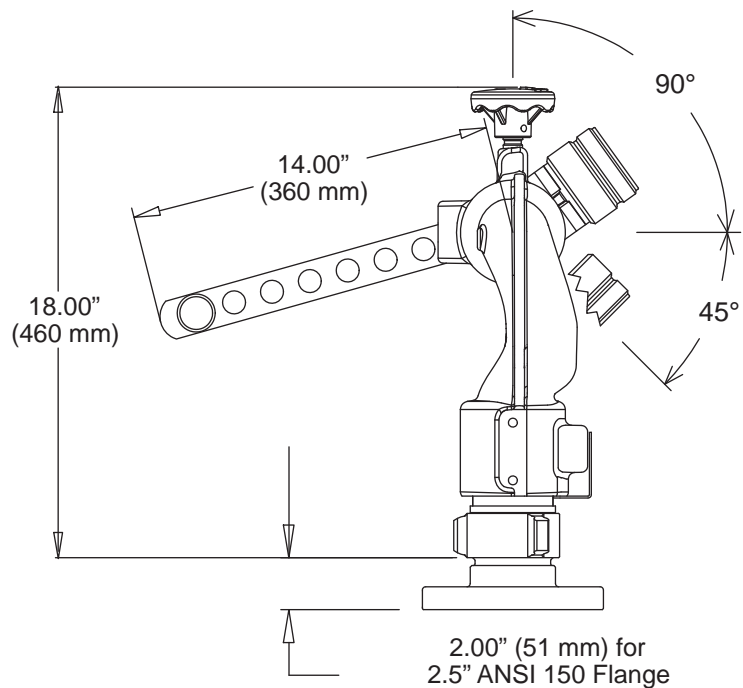
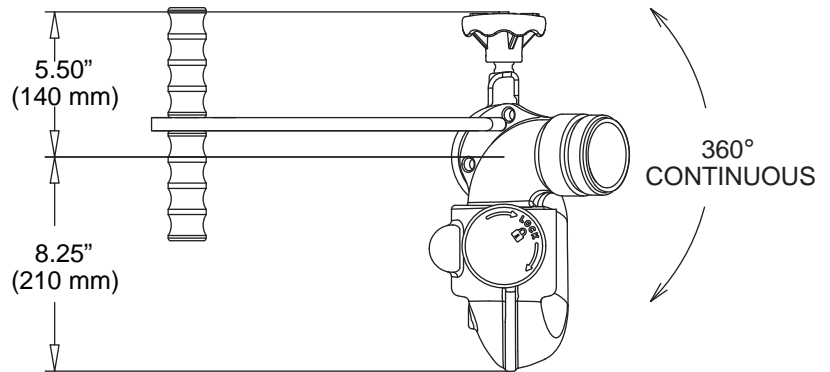
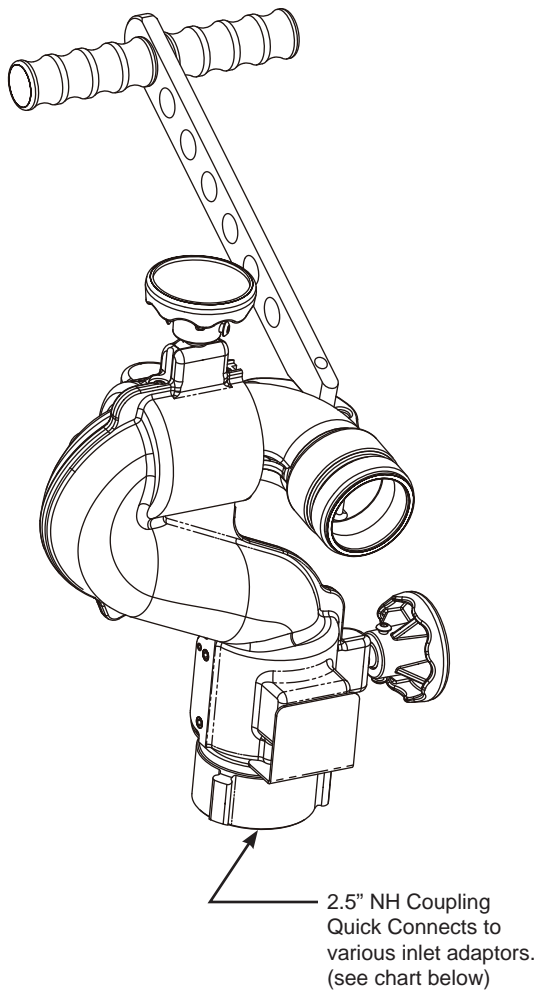
- 1500 gpm Typhoon Monitor
- 2000 gpm Monsoon Monitor
- Automatic Nozzles
- Stacked Tips



Manual Control

- 1500 gpm Typhoon Monitor
- 2000 gpm Monsoon Monitor
- Automatic Nozzles
- Stacked Tips

The Tornado is very compact, yet it has a large 2-¼ inch waterway, capable of flowing up to 500 gpm, making it the ideal manual turret. Waterway with turning vane has only 19 psi (1.3 bar) friction loss at 500 gpm (1900 l/min). Elevation range is 90 degrees above horizontal to 45 degrees below. Has 360 degree continuous horizontal rotation. Main waterway made from hardcoat anodized ANSI 356-T6 aluminum. Silver powdercoat finish inside and out. Various inlets are available.



Y2-T11A

12.0 lb (5.5kg)

SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart

When ordering a Tornado monitor, choose one option from each category. Example: Y2-T61A is an tiller monitor with 2.5" ANSI 150 inlet and 2.5" NH male threaded outlet. For assistance in ordering, please call 1-800-348-2686 and speak to a monitor specialist.

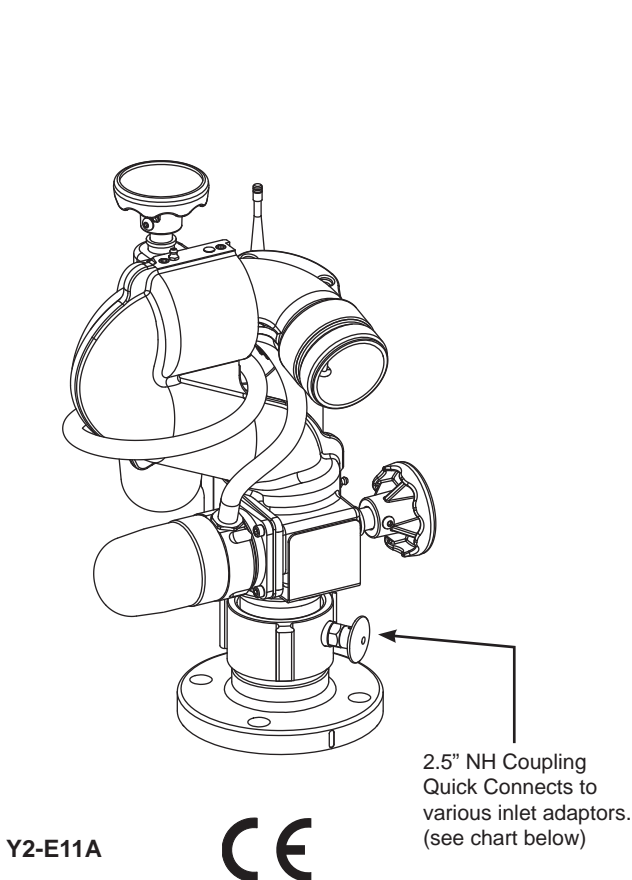
Y2-T

A

Inlet	Outlet
1) 2.5"-7.5 NH Female [§]	1) 2.5"-7.5 NH Male
2) 2.5"-11 BSP Female	2) 2.5"-11 BSP Male
3) 2.0"-11 BSP Female	3) 1.5"-11 BSP Male
5) DN80, PN16	4) 1.5"-9 NH Male
6) 2.5" ANSI 150	8) Special 1.5"
7) 2.5"-8 NPT Female	9) Special 2.5"
8) 2.0"-11.5 NPT Female	*Code-RLF fits
9) 3.0" -8 NPT Female	Extend-A-Gun RC3
0) 3.0" ANSI 150	§No inlet adapter
L) TFT Code-RLF*	

Remote Controlled Monitor

The Tornado RC is very compact, yet it has a large 2-¼ inch waterway, capable of flowing up to 500 gpm, making it the ideal bumper turret. Waterway with turning vane has only 19 psi (1.3 bar) friction loss at 500 gpm (1900 l/min). Elevation range is 90° above horizontal to 45° below. Field changeable elevation travel stops at 45° above and 20° below horizontal. Horizontal travel is 370° (185° either side of a center position). Field changeable horizontal travel stops to give 180° (90° either side of a center position). Designed for 12 VDC or 24 VDC operation, selection is automatic. The Tornado RC comes with a control panel on the monitor for horizontal rotation, elevation, nozzle pattern, programmable PARK and Oscillate. See page 102-103 for additional control stations. The motor control circuits use position encoders and current limiting to protect the drive train at the ends of travel. Unit has waterproof factory installed plug on power wire for easy removal or reinstallation. Knobs for manual override are provided on the horizontal rotation and elevation drive. Electric drives and control box are waterproof. Main waterway made from hardcoat anodized ANSI 356-T6 aluminum. Silver powdercoat finish inside and out. Various inlets are available. Quick connect inlets and outlets allows for quick removal of the Tornado for installations such as bumper mounting, where the monitor must be removed to tilt the cab of the truck. RC Monitor delivered with wireless antenna installed. For wireless operation, purchase wireless operator station package on page 102.



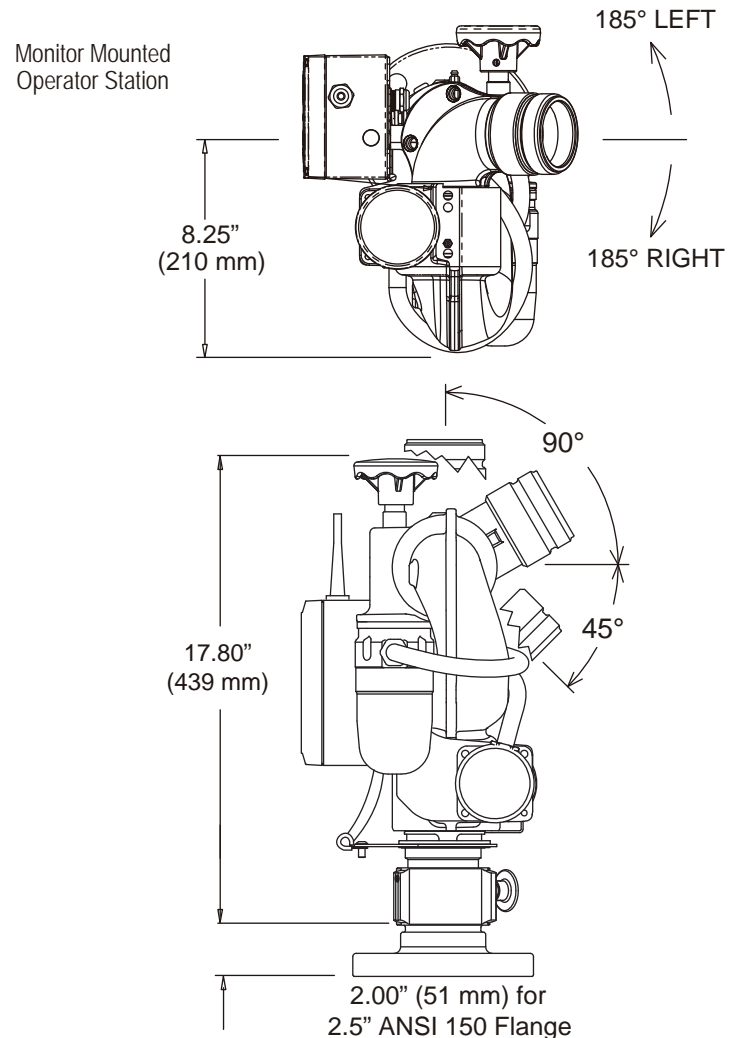
Y2-E11A



25.0 lb. (11.4kg)

SAMPLE PART NUMBER

Specify Inlet and Outlet by number
from chart



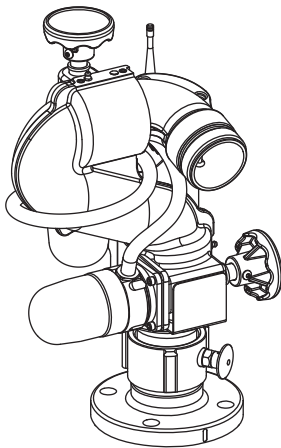
See pages 58 and 72 for ER nozzle choices

When ordering a Tornado RC monitor, choose one option from each category. Example: Y2-E61A is an electric monitor with 2.5" ANSI 150 flange inlet and 2.5" NH male threaded exit. For assistance in ordering, please call 1-800-348-2686 and speak to an RC monitor specialist.

Y2-E

Inlet	Outlet
1) 2.5"-7.5 NH Female [§]	1) 2.5"-7.5 NH Male
2) 2.5"-11 BSP Female	2) 2.5"-11 BSP Male
3) 2.0"-11 BSP Female	3) 1.5"-11 BSP Male
5) DN80, PN16	4) 1.5"-9 NH Male
6) 2.5" ANSI 150	8) Special 1.5"
7) 2.5"-8 NPT Female	9) Special 2.5"
8) 2.0"-11.5 NPT Female	*Code-RLF fits Extend-A-Gun RC3
9) 3.0" -8 NPT Female	[§] No inlet adapter
0) 3.0" ANSI 150	
L) TFT Code-RLF*	

A



MONITOR CHOICES

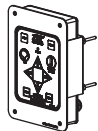
Y2-E

Inlet	Outlet
1) 2.5"-7.5 NH Female [§]	1) 2.5"-7.5 NH Male
2) 2.5"-11 BSP Female	2) 2.5"-11 BSP Male
3) 2.0"-11 BSP Female	3) 1.5"-11 BSP Male
5) DN80, PN16	4) 1.5"-9 NH Male
6) 2.5" ANSI 150	8) Special 1.5"
7) 2.5"-8 NPT Female	9) Special 2.5"
8) 2.0"-11.5 NPT Female	*Code-RLF fits
9) 3.0" -8 NPT Female	Extend-A-Gun RC3
0) 3.0" ANSI 150	[§] No inlet adapter
L) TFT Code-RLF*	

A

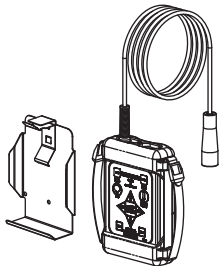
Rated to 500 gpm with a maximum operating pressure of 250 psi, the Tornado is a remotely controlled truck mounted monitor with electric remote control of rotation and elevation angle. The Tornado has an electronically operated 370° horizontal rotational travel, user installed travel limit stops, stainless steel worm gear drive, and grease zerK fittings for easy service and lubrication. The discharge elbow includes an integral stream straightener. The monitor is constructed of hard coat anodized aluminum alloy and has a silver powder coat finish inside and out.

CONTROLLER CHOICES



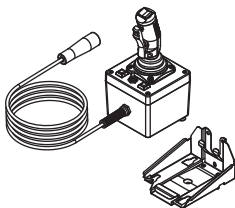
Y4E-RP
Panel Mount Monitor
Operator Station

Page 102



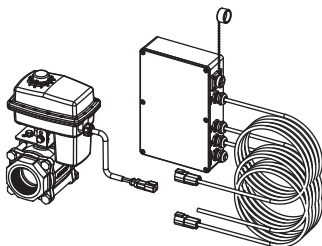
Y4E-CT-30
30' Tethered Monitor
Operator Station

Page 102



Y4E-JS-52
Joystick Monitor Operator
Station with integrated
valve control

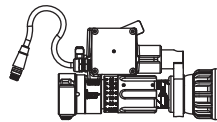
Page 103



YE-VK-PH
Heavy-duty 2" Water Valve
and Interface Box

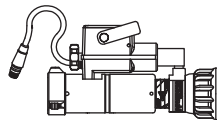
Page 104

NOZZLE CHOICES



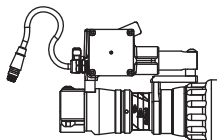
B-TOS-ERP — 1.5" NH
100 PSI SELECTABLE ER TIP
User Selected Flow Setting
Flow Capacity of 15-120 gpm

Page 72



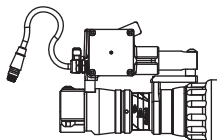
B-TO-ERP — 1.5" NH
100 PSI ULTIMATIC ER TIP
Automatic Pressure Control
Flow Capacity of 10-125 gpm

Page 72



BL-TO-ERP — 1.5" NH
75 PSI ULTIMATIC ER TIP
Automatic Pressure Control
Flow Capacity of 10-100 gpm

Page 72



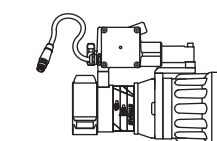
HM-TO-ERP — 1.5" NH
100 PSI MID-MATIC ER TIP
Automatic Pressure Control
Flow Capacity of 70-200 gpm

Page 72



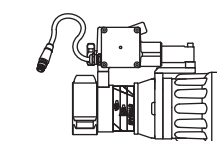
HMD-TO-ERP — 1.5" NH
100/55 PSI MID-FORCE ER TIP
Automatic Dual-Pressure Control
Flow Capacity of 70-200 gpm

Page 72



HMDC-TO-ERP — 1.5" NH
100 PSI CAFS-FORCE ER TIP
Automatic Dual-Pressure Control
Water/CAFS 70-200 gpm

Page 72



MD-ERP-14A — 2.5" NH
100 PSI MAX-FLOW ER TIP
Fixed Orifice Tip - 500 gpm

Page 58



MD-ERP-18A — 2.5" NH
100 PSI MAX-MATIC ER TIP
Automatic Pressure Control
Flow Capacity of 100-500 gpm

Page 58

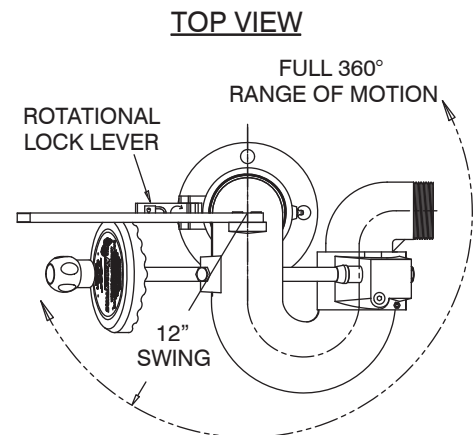
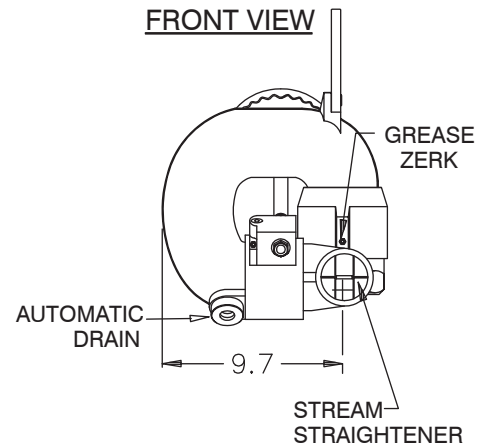
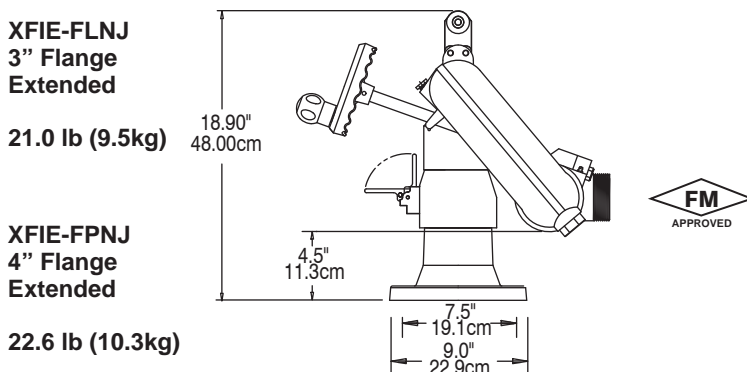
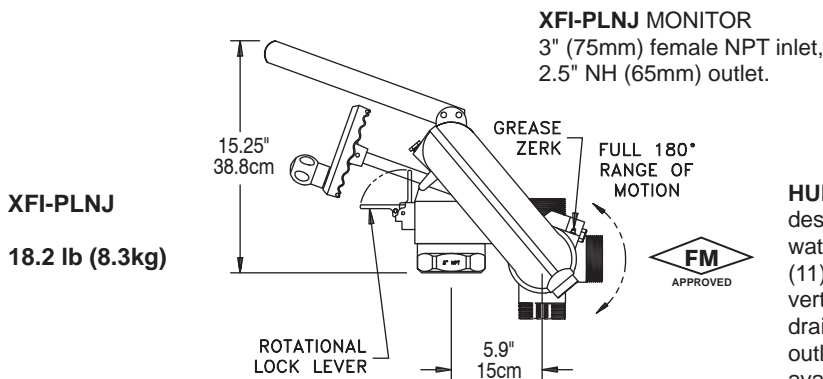
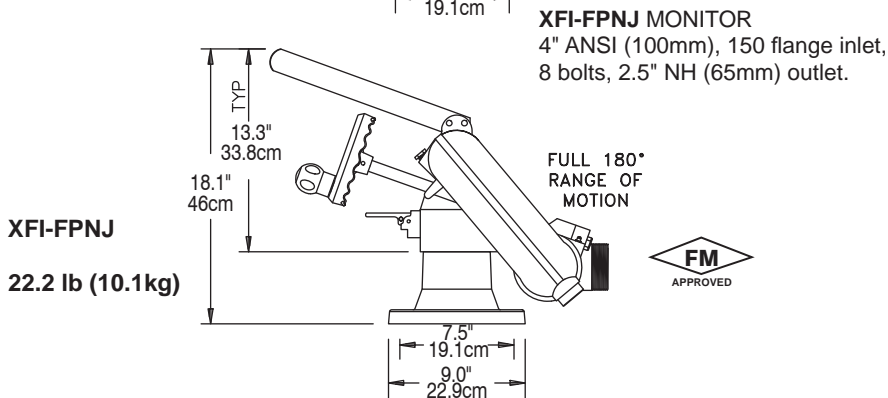
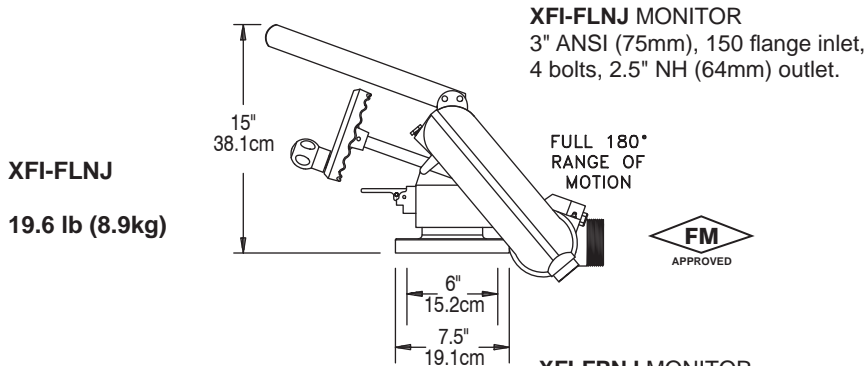


MD-ERP-12A — 2.5" NH
100/55 PSI MAX-FORCE ER TIP
Automatic Dual-Pressure Control
Flow Capacity of 100-500 gpm

Page 58

Fixed Station Monitor - Up to 1250 GPM

The Task Force Tips' Hurricane is a durable, industrial, high-capacity fixed monitor. The Hurricane has high flow and low friction loss characteristics. The red powder coat finish (inside and out), and stainless steel elevation drive make the Hurricane one appliance that can stand up to tough service environments. The Hurricane is capable of flowing 1250 gpm (4500 l/min) while maintaining a FULL 360° rotational ability. The lever-action rotational lock is activated in one motion, visually confirmed, and securely holds the Hurricane in position. The placement of grease zerks allows the Hurricane monitor to be quickly and easily serviced and lubricated, and a threaded port (.25" NPT) (6mm) is provided for a pressure gauge. The Hurricane is made from hard anodized ANSI A356-T6 aluminum. The Hurricane industrial monitor comes with our exclusive 5-year warranty.

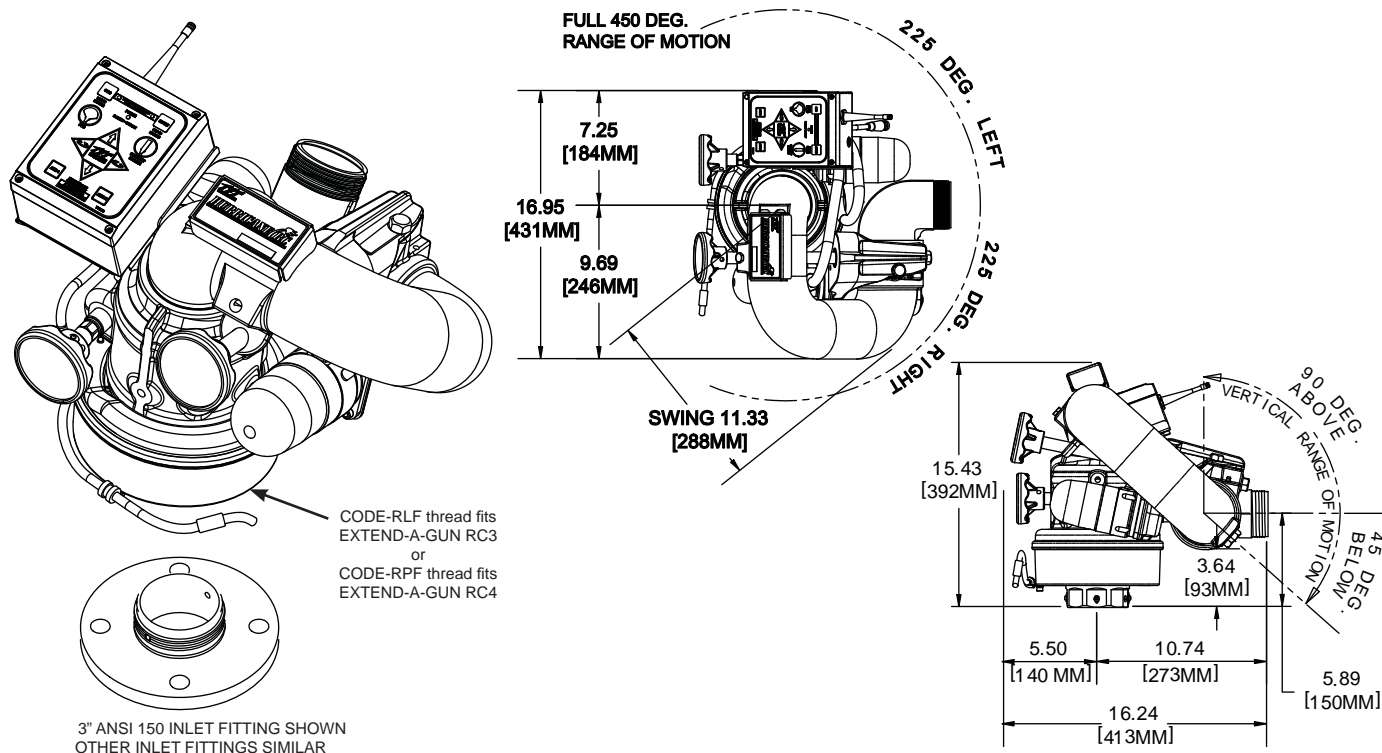


HURRICANE MONITOR The most rugged, most advanced design for an industrial monitor ever. The large 3.25" (83mm) waterway will deliver up to 1250 gpm (4500 l/min). Only eleven (11) turns of the handwheel are necessary to change from vertical to the horizontal elevation setting. A built-in automatic drain protects the monitor from freezing. 2.5" male NH (65mm) outlet threads are standard. 2.5" male BSP (65mm) threads available on request. **NOTE:** The riser must be supported to safely withstand a nozzle reaction force of up to 900 lbs (408kg). (1250 gpm at 175 psi)(4500 l/min @ 12 bar).

XFIE-FLNJ MONITOR EXTENDED
3" ANSI (75mm), 150 flange inlet,
4 bolts, 2.5"NH (65mm) outlet.

XFIE-FPNJ MONITOR EXTENDED
4" ANSI (100mm), 150 flange inlet,
8 bolts, 2.5"NH (65mm) outlet.

The Hurricane RC is an electric remote controlled monitor, with a single low-profile waterway discharge. The Hurricane RC has high flow and low friction loss characteristics. Capable of flowing 1250 gpm (4500 l/min) while maintaining a FULL 450° rotational travel (225° either side of center). Maximum operating pressure is 200 psi (14 bar). Field changeable horizontal rotation stops at 45, 90 and 135 degrees either side of center position. Elevation range is 90° above horizontal to 45° below. Designed for 12 VDC or 24 VDC volt operation, selection is automatic. The Hurricane RC comes with a control panel mounted on the monitor for horizontal rotation, elevation, nozzle pattern, programmable PARK and Oscillate. See page 102-103 for additional control stations. The motor control circuits are factory installed on the monitor and use position encoders and current limiting to protect the drive train at the ends of travel. Unit comes with 30 feet of ultra-flexing robotics power cable already wired to the monitor, and is enclosed in a unique cable guide that allows FULL 450° of horizontal travel, which is far more reliable than slip rings or coil cords. Knobs for manual override are also provided. TFT's Master Stream 1250 ER nozzle plugs into the factory installed nozzle power wire. Electric drives and control box are waterproof. Standard outlet is 2.5" NH (65mm) male thread. A built-in automatic drain protects the monitor from freezing. A threaded port (0.25" NPT) (6mm) is provided for optional pressure gauge. The monitor is made from hardcoat anodized ANSI 356-T6 aluminum and silver powder coat finish inside and out. RC Monitor delivered with wireless antenna installed. For wireless operation, purchase wireless operator station package on page 102.



XFIH-E11A (see chart)



39.0 lb (17.7 kg)

SAMPLE PART NUMBER
Specify Inlet and Outlet by number from chart .

See pages 102-103 for control options.
See pages 58, 62 or 64 for ER nozzles that plug into the factory installed nozzle wire.

FLANGE SPECIFICATIONS

FITS FLANGE	OUTSIDE DIAMETER	THICKNESS	BOLT HOLE CIRCLE	NUMBER OF BOLTS	SIZE OF BOLTS
3" ANSI 125/150 DN80 PN20	7.50" 190 mm	0.75" 20 mm	6.00" 152.5 mm	4	5/8" M16
4" ANSI 150 DN100 PN20	9.00" 230 mm	0.94" 23 mm	7.50" 190.5 mm	8	5/8" M16
DN80 PN16	200 mm	22 mm	160 mm	8	16 mm
DN100 PN16	220 mm	22 mm	180 mm	8	16 mm

XFIH-E

Inlet		Outlet
1) 3" ANSI 150	7) 4" NPT Female	1) 2.5" - 7.5 NH Male (65mm)
2) 4" ANSI 150	8) 3" BSP Male	2) 2.5" - 11 BSP Male (65mm)
4) DN80, PN16	9) 4" BSP Male	9) Special
5) DN100, PN16	L) TFT CODE-RLF*	
6) 3" NPT Female	P) TFT CODE-RPF*	

*TFT CODE-RLF Fits Extend-A-Gun RC3

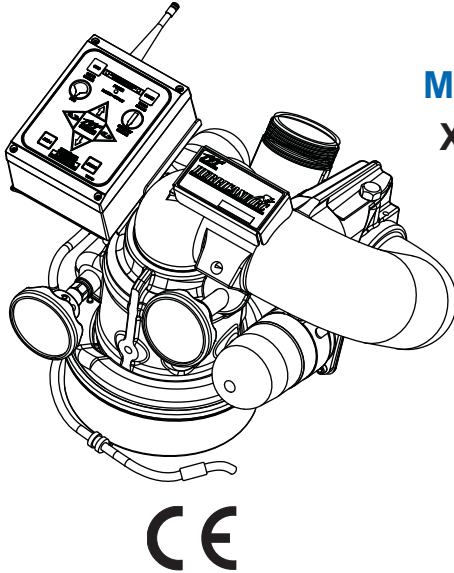
*TFT CODE-RPF Fits Extend-A-Gun RC4

When ordering a Hurricane RC monitor, choose one option from each category. Example: Model XFIH-E11A is a monitor with 3" ANSI 150 flange inlet and 2.5" NH male threaded outlet. For assistance in ordering, please call 1-800-348-2686 and speak to an RC monitor specialist.

Hurricane RC Suggested Options

Rated to 1250 gpm, the Hurricane RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of rotation and elevation angle. The electric motor provides elevation control from 90° above and below horizontal. The unit has an electrically operated 450° horizontal rotational travel, user installed travel limit stops, automatic drain valve, stainless steel worm gear drive, and grease zerk fittings for easy service and lubrication. User operation controls are mounted on the monitor, and include rotation, elevation and nozzle stream pattern control. Optional remote wired, tethered and wireless remote controls are available. The discharge elbow includes an integral stream straightener. The monitor is constructed of hard coat anodized aluminum alloy and has silver powder coat finish inside and out.

NOTE: XGA-RP operator station (see page 103) is required if the RC Extend-A-Gun is not installed with a TFT RC Monitor.



MONITOR CHOICE

XFIH-E

1A

Inlet

- 1) 3" ANSI 150
- 2) 4" ANSI 150
- 4) DN80, PN16
- 5) DN100, PN16
- 6) 3" NPT Female
- 7) 4" NPT Female
- 8) 3" BSP Male
- 9) 4" BSP Male
- L) TFT CODE-RLF *
- P) TFT CODE-RPF *

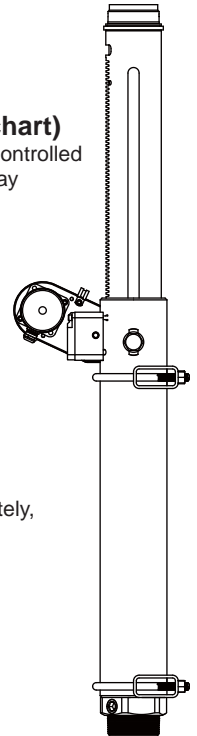
*TFT CODE-RLF
Fits Extend-A-Gun RC3

*TFT CODE-RPF
Fits Extend-A-Gun RC4

EXTEND-A-GUN RC3

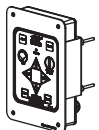
XGA3*- (see chart)**
12" or 18" Remote Controlled
Telescoping Waterway

Page 81



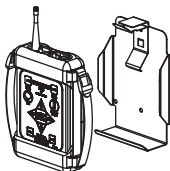
Panel Mount RC
Extend-A-Gun
Operator Station
available separately,
see page 103.

CONTROLLER CHOICE



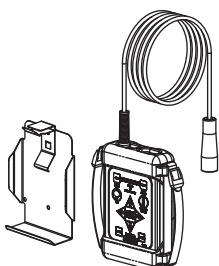
Y4E-RP
Panel Mount
Monitor Operator Station

Page 102



YE-RF-900
Wireless Monitor
Operator Station

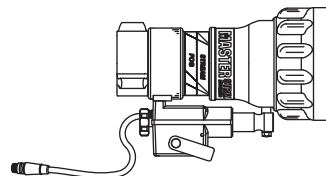
\$2000.00
Page 102



Y4E-CT-30
30' Tethered Monitor
Operator Station

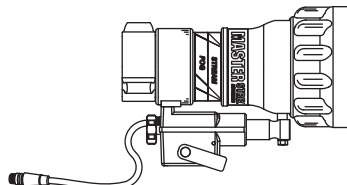
Page 102

NOZZLE CHOICE



M-ERP1000-NJ — 2.5" NH
100 psi Master Stream 1000
Automatic Pressure
150-1000 gpm Flow Range

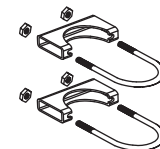
Page 62



M-ERP1250S-NJ — 2.5" NH
100 psi Master Stream 1250
Automatic Pressure
300-1250 gpm Flow Range

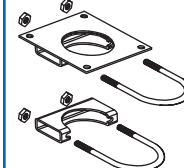
Page 64

3" BRACKET SET CHOICE



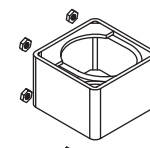
XGB-33
SADDLE/SADDLE

Page 81



XGB-23
PLATE/SADDLE

Page 81



XGB-13
TUBE/SADDLE

Page 81

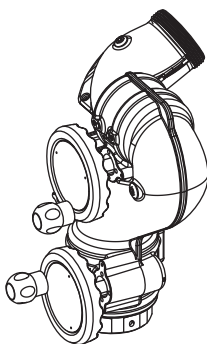
Manually Controlled Monitor - Up to 1500 GPM

The Typhoon Monitor is a manually operated monitor designed for flows up to 1500 gpm (6000 l/min). Maximum operating pressure is 200 psi (14 bar). Waterway with turning vane has only 19 psi (1.3 bar) loss at 1500 gpm (6000 l/min). Available with various inlet flanges and threaded fittings. Inlet also made for direct connection to TFT's Extend-A-Gun or Extend-A-Gun RC3 or RC4. See chart on next page for model numbers. Main waterway made from hardcoat anodized ANSI 356-T6 aluminum. Silver powder coat finish inside and out. Standard outlet is 3.5"NH (90 mm) male thread. Other outlets available.

Y5-D11A (see chart on page 91) Dual Handwheels

22.0 lb (10.0kg)

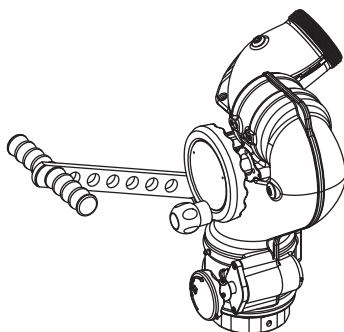
SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart .



Y5-M11A (see chart on page 91) Handwheel for Elevation Tiller for Horizontal Rotation

23.0 lb (10.4kg)

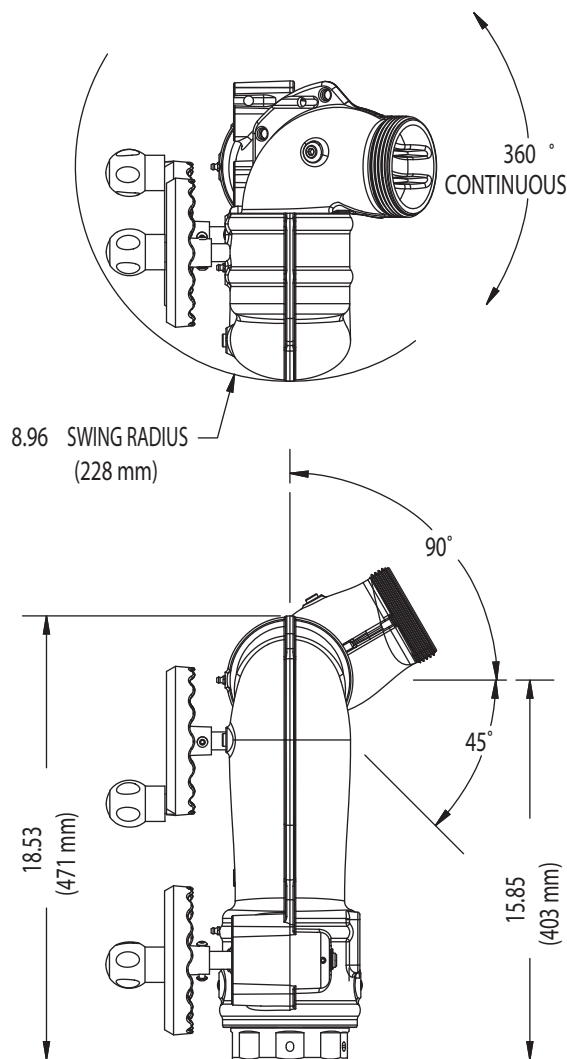
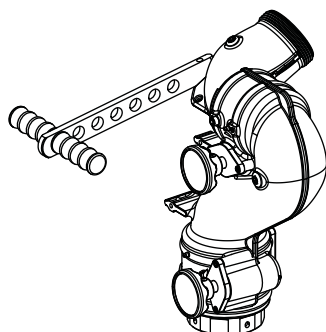
SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart .



Y5-T11A (see chart on page 91) Tiller with locks on both axis

23.0 lb (10.4kg)

SAMPLE PART NUMBER
Specify Inlet and Outlet by number
from chart .



Shown with Dual Handwheels
and without Inlet Fitting

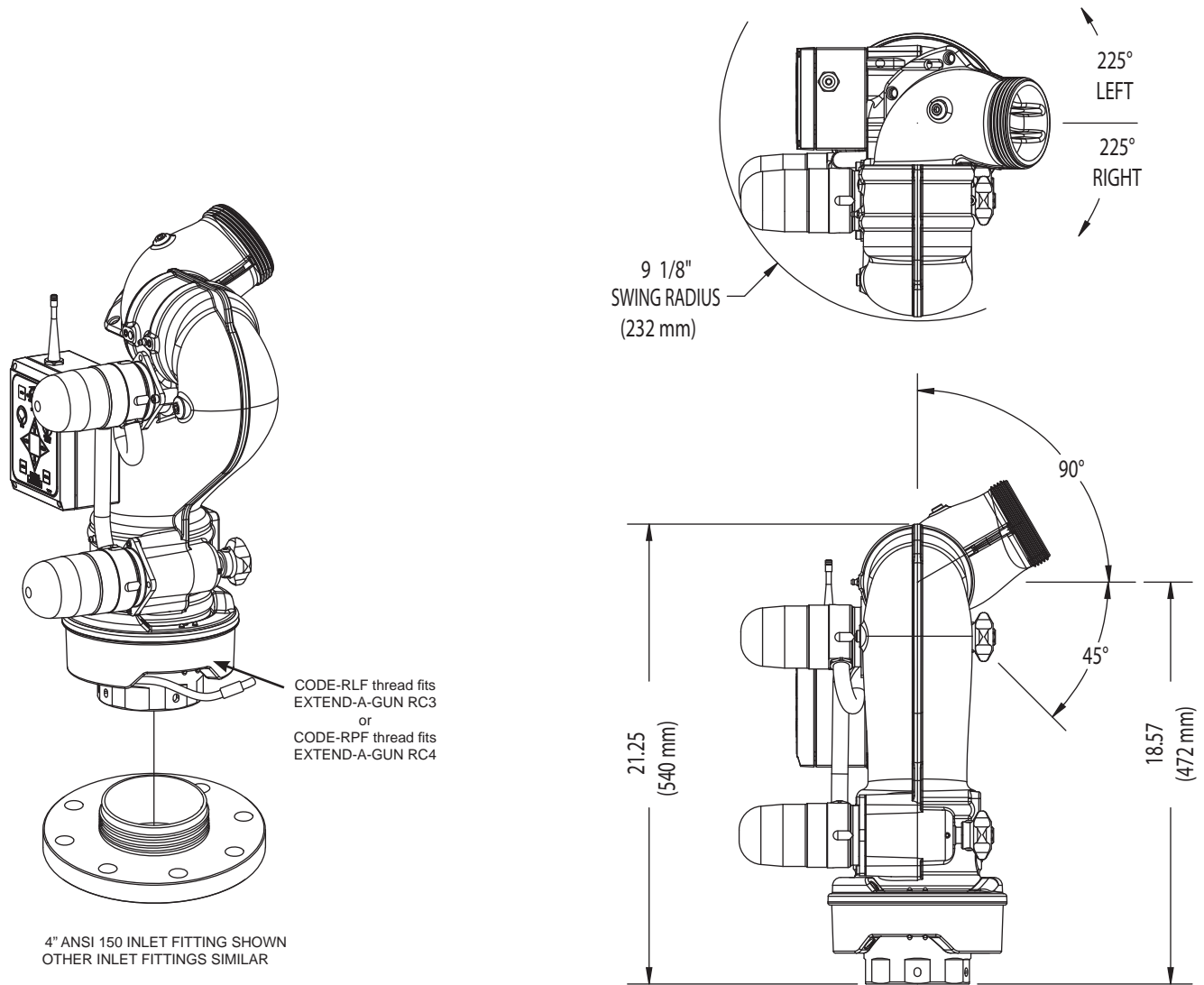
FLANGE SPECIFICATIONS

FITS FLANGE	OUTSIDE DIAMETER	THICKNESS	BOLT HOLE CIRCLE	NUMBER OF BOLTS	SIZE OF BOLTS
3" ANSI 125/150 DN80 PN20	7.50" 190 mm	0.75" 20 mm	6.00" 152.5 mm	4 4	5/8" M16
4" ANSI 150 DN100 PN20	9.00" 230 mm	0.94" 23 mm	7.50" 190.5 mm	8 8	5/8" M16
DN80 PN16	200 mm	22 mm	160 mm	8	16 mm
DN100 PN16	220 mm	22 mm	180 mm	8	16 mm

When ordering a Typhoon monitor, choose one option from each category on page 91. For example Model Y5-M21A is a manual elevation handwheel, horizontal tiller aluminum monitor with 4" ANSI 150 flange inlet and 3.5" NH male threaded outlet. For assistance in ordering, please call 1-800-348-2686 and speak to a monitor specialist.

Remote Controlled Monitor - Up to 1500 GPM Designed for Pumper Applications

The Typhoon RC is an electrically operated monitor for flows up to 1500 gpm (6000 l/min). Maximum operating pressure is 200 psi (14 bar). Waterway with turning vane has only 19 psi (1.3 bar) loss at 1500 gpm (6000 l/min). Designed for 12 VDC or 24 VDC operation, selection is automatic. The Typhoon RC comes with a factory installed control panel mounted to the monitor for controlling horizontal rotation, elevation, nozzle pattern, and programmable PARK and Oscillate. See Pages 102-103 for additional control stations. The motor controls use position encoders and current limiting to protect the drive train at ends of travel. Knobs are installed so the monitor may be manually operated in the event of a power failure. Field changeable stops for horizontal travel at 45, 90, and 135 degrees either side of a center position. Horizontal travel without stops is 225 degree left and right (450 degree total). Available with various inlet flanges and threaded fittings. Inlet also made for direct connection to TFT's electric Extend-A-Gun RC3 or RC4. Main waterway made from hardcoat anodized ANSI 356-T6 aluminum. Silver powder coat finish inside and out. Standard outlet is 3.5"NH (90 mm) male thread. Other outlets available. RC Monitor delivered with wireless antenna installed. For wireless operation, purchase wireless operator station package on page 102.



Y5-E11A
Electric



Y5-

37.2 lbs (16.8 kg)

SAMPLE PART NUMBER
Specify Inlet and Outlet
by number from chart

			A
Actuation	Inlet	Outlet	
E) Electric	1) 3" ANSI 150	7) 4" NPT Female	1) 3.5"-6 NH Male
D) Dual Handwheel	2) 4" ANSI 150	8) 3" BSP Male	2) 3.5"-11 BSP Male
M) Elevation Handwheel	3) 6" ANSI 150	9) 4" BSP Male	3) 3.5"-8 NPSH Male
Horizontal Tiller	4) DN80, PN16	L) TFT CODE-RLF*	4) 4.0"-11 BSP Male
T) Tiller Both Axis	5) DN100, PN16	P) TFT CODE-RPF*	9) Special
	6) 3" NPT Female		

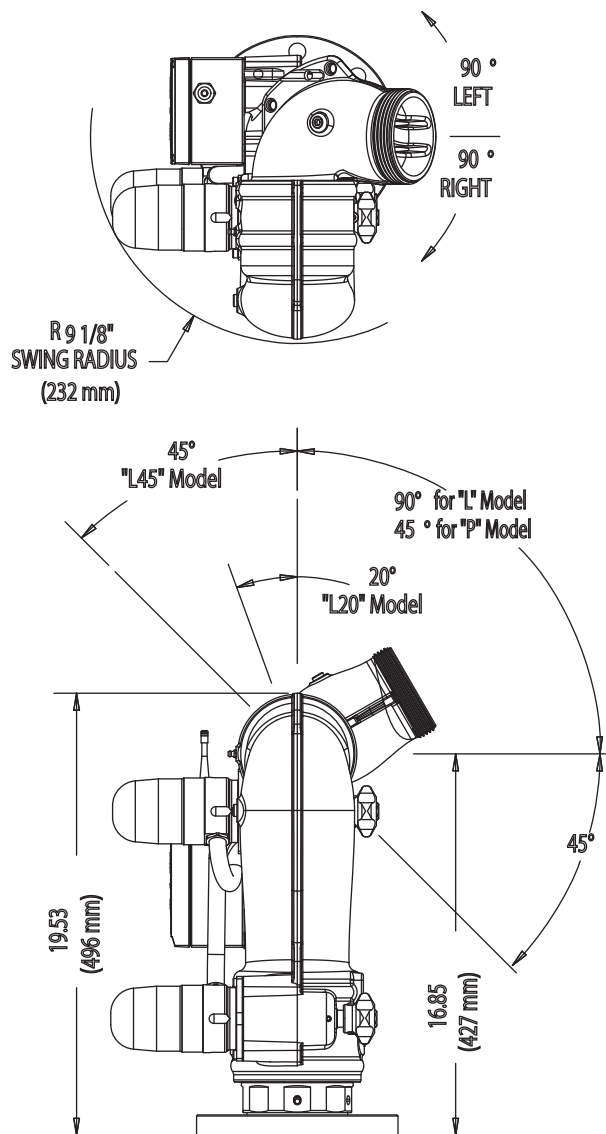
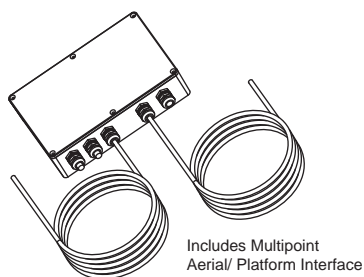
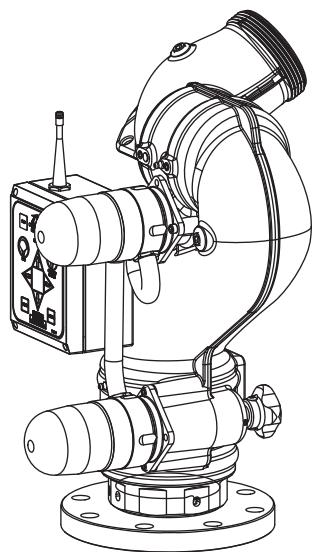
See pages 62, 64, 66 and 68
for nozzles choices.

*TFT CODE-RLF Fits Extend-A-Gun RC3

*TFT CODE-RPF Fits Extend-A-Gun RC4

Remote Controlled Monitor - Up To 1500 GPM Designed for Ladder and Platform Applications

The Typhoon RC for Ladder or Platform installations is similar to the standard Typhoon RC. This model has the horizontal travel limited to 90 degrees left and right (180 degrees total). Various models are available with different elevation ranges –see the figure and table below for details. Ladder and Platform models include an electronics enclosure and 10' of cable to connect signals from the primary control station (such as the turntable toggle switches). These signals can either be hard wired or from a Canbus output module. The Platform model's electronics enclosure contains an additional 10' cable to connect signals from a secondary control station (such as from basket toggle switches). The primary control signals will always override any signals from the secondary control or the monitor operator station. The electronics enclosure is factory configured to accept +12/24 VDC signals, but can be reconfigured in the field to accept ground signals. This electronics enclosure also includes a relay to indicate when the monitor is in the PARK position and contacts that can be connected to the Canbus or multiplex system. A monitor mounted control panel allows vertical, horizontal, and nozzle pattern adjustments and programmable PARK and Oscillate. See pages 102-103 for additional control stations. RC Monitor delivered with wireless antenna installed. For wireless operation, purchase wireless operator station package on page 102.



Y5-E11A-L



37.2 lbs (16.9 kg).

SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart

Y5-E

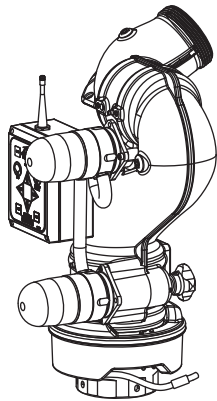
Inlet		Outlet
1) 3" ANSI 150	7) 4" NPT Female	1) 3.5"-6 NH Male
2) 4" ANSI 150	8) 3" BSP Male	2) 3.5"-11 BSP Male
3) 6" ANSI 150	9) 4" BSP Male	3) 3.5"-8 NPSH Male
4) DN80, PN16	L) TFT CODE-RLF	4) 4.0"-11 BSP Male
5) DN100, PN16	P) TFT CODE-RPF	9) Special
6) 3" NPT Female		

A

Configuration
-L) Ladder
-P) Platform
-L20) Ladder w/20° Extra Elevation
-L45) Platform w/45° Extra Elevation

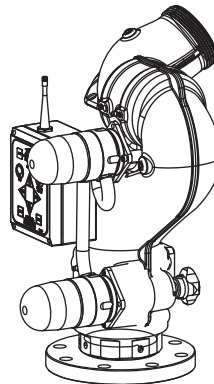
Typhoon RC Package Suggested Options

Rated to 1500 gpm, and 200 psi, the Typhoon RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of horizontal rotation, elevation, nozzle pattern and Park & Stow. The unit has an electrically operated elevation control from 45 degrees below horizontal up to a maximum of 80 degrees past vertical for a total possible travel of 215 degrees. Unit has elevation travel limit stops that can reduce the travel to 20 degrees past vertical or less in 10 degree increments. The unit has an electrically operated 450 degree maximum horizontal travel, stainless steel worm gear, and horizontal travel limit stops in 45 degree increments. Knobs are mounted on the vertical and horizontal drives for manual override. User operation controls are mounted on the monitor, and include rotation, elevation, and nozzle stream pattern control. Optional remote wired, tethered, and wireless remote controls are available. The discharge elbow includes an integral stream straightener. The monitor is constructed of hardcoat anodized aluminum alloy and has a silver powdercoat finish inside and out. **NOTE: XGA-RP operator station (see page 103) is required if the RC Extend-A-Gun is not installed with a TFT RC Monitor.**



For Pumper Applications

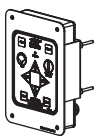
Page 91



For Ladders and Platforms

Page 92

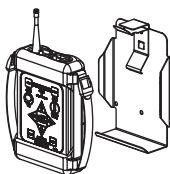
CONTROLLER CHOICE



Y4E-RP

Panel Mount
Monitor Operator Station

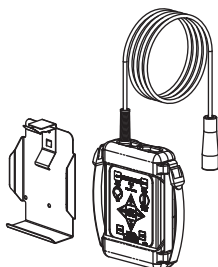
Page 102



YE-RF-900

Wireless Monitor
Operator Station

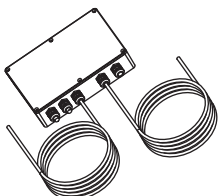
Page 102



Y4E-CT-30

30' Tethered Monitor
Operator Station

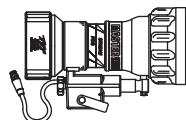
Page 102



YE-INPUTS1 or 2

Multipoint Aerial Interface

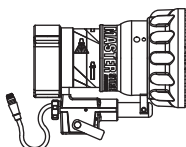
NOZZLE CHOICE



Page 62

M-ERP1000-NN — 3.5"NH

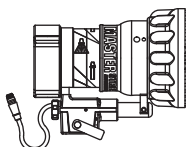
100 psi Masterstream 1000
Automatic Pressure
150-1000 gpm Flow Range



Page 66

M-ERP1250-NN — 3.5"NH

70-120 psi Master Stream 1250
Automatic Pressure
300-1250 gpm Flow Range



Page 68

M-ERP1500-NN — 3.5"NH

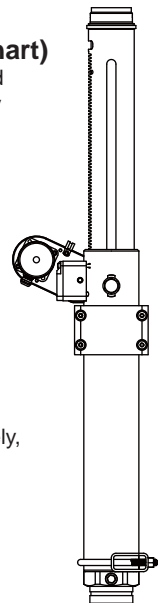
70-120 psi Master Stream 1500
Automatic Pressure
300-1500 gpm Flow Range

EXTEND-A-GUN RC4

XGA48-** (see chart)

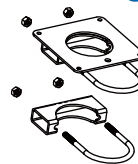
18" Remote Controlled
Telescoping Waterway

Page 82



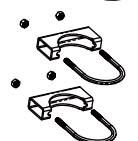
Panel Mount RC
Extend-A-Gun
Operator Station
available separately,
see page 103.

4" BRACKET SET CHOICE



XGB-43
PLATE/SADDLE

Page 82

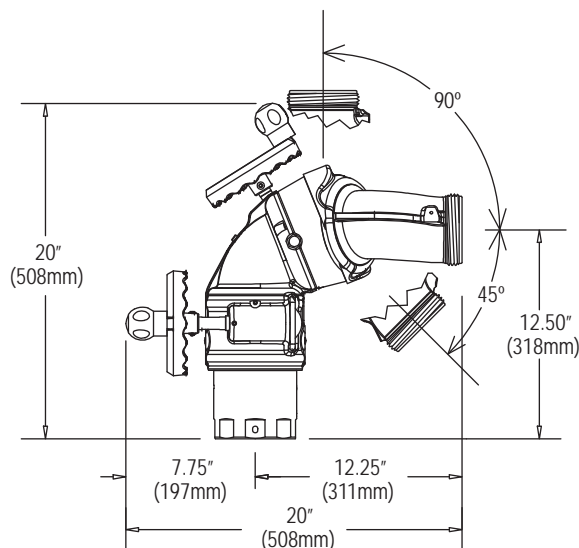
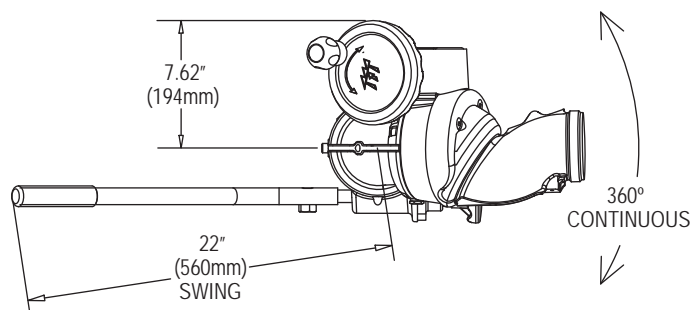
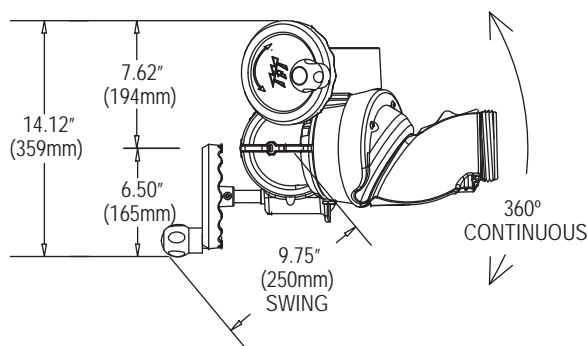


XGB-53
SADDLE/SADDLE

Page 82

Manually Controlled Monitor - Up To 2000 GPM

The Monsoon Monitor is a manually operated monitor designed for flows up to 2000 gpm (7,600 l/min). Maximum operating pressure is 200 psi (14 bar). Unique patent pending segmented waterway has only 15 psi (1 bar) friction loss at 2000 gpm. Water makes very few turns as it travels through the monitor resulting in low friction loss and a far-reaching effective stream. Elevation range is 90 degrees above horizontal to 45 degrees below. Field changeable elevation travel stops at 45 degrees above, 30 degrees above, and 30 degrees below horizontal. The manual model has continuous horizontal rotation with field changeable stops at 45, 90, and 135 degrees either side of a center position. Available with various inlet flanges and threaded fittings. Inlet also made for direct connection to TFT's electric Extend-A-Gun RC3 or RC4. See chart on next page for model numbers. Main waterway made from hardcoat anodized ANSI 356-T6 aluminum. Silver powder coat finish inside and out. Standard outlet is 3.5" NH (90 mm) rigid male thread. Other outlets are available.



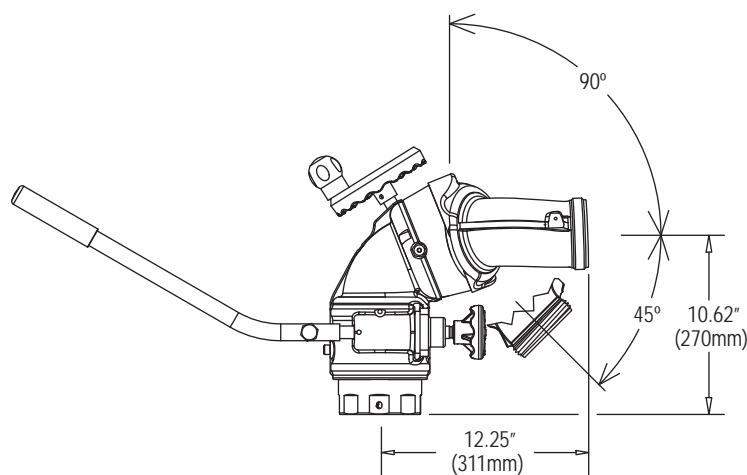
SHOWN WITHOUT INLET FITTING

Y4-M11A (see chart page 95)

25.0 lb (11.4 kg)



SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart



SHOWN WITH TILLER BAR
AND WITHOUT INLET FITTING

Y4-T11A (see chart page 95)

26.0 lb (11.8 kg)



SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart

FLANGE SPECIFICATIONS

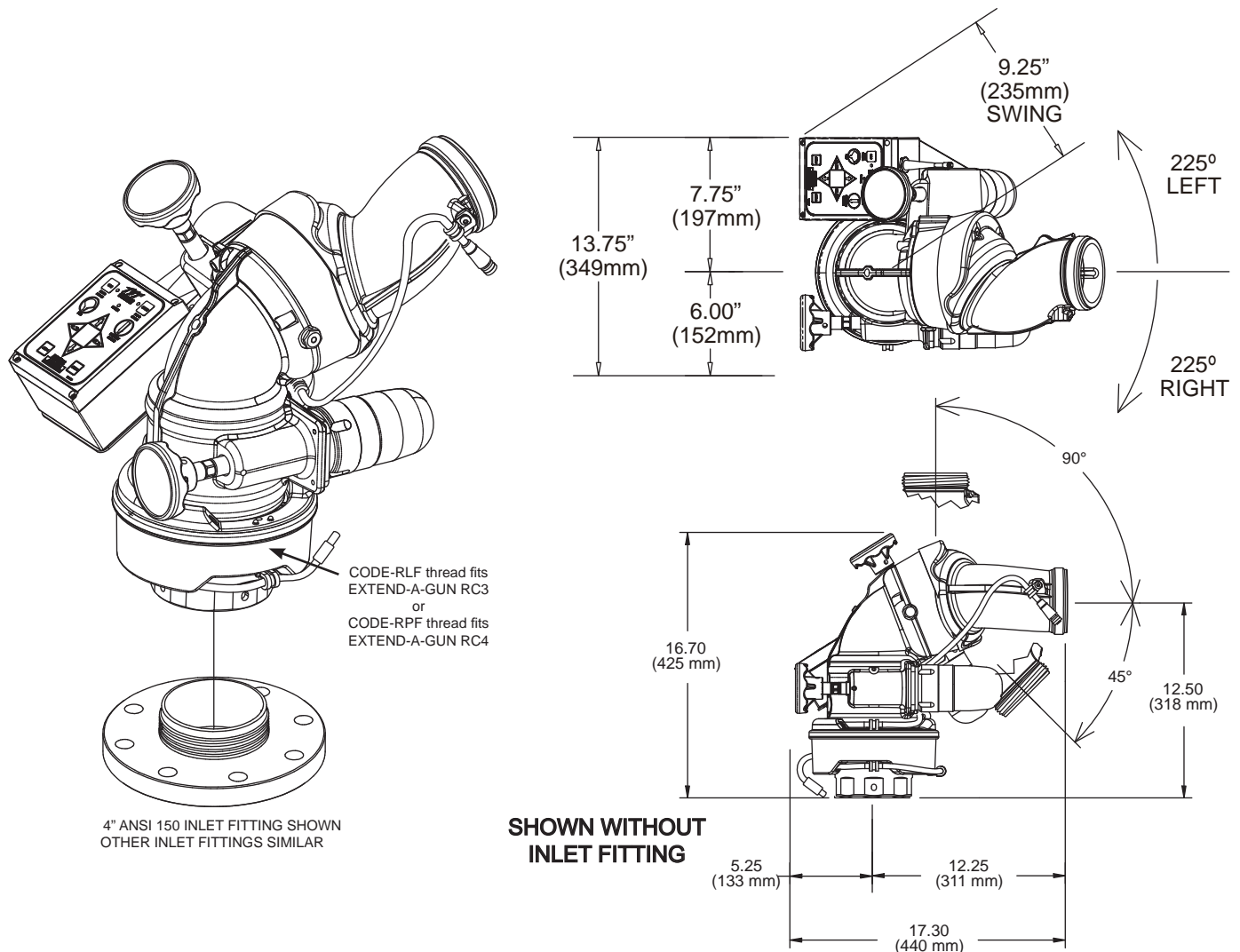
FITS FLANGE	OUTSIDE DIAMETER	THICKNESS	BOLT HOLE CIRCLE	NUMBER OF BOLTS	SIZE OF BOLTS
3" ANSI 125/150 DN80 PN20	7.50" 190 mm	0.75" 20 mm	6.00" 152.5 mm	4 4	5/8" M16
4" ANSI 150 DN100 PN20	9.00" 230 mm	0.94" 23 mm	7.50" 190.5 mm	8 8	5/8" M16
DN80 PN16	200 mm	22 mm	160 mm	8	16 mm
DN100 PN16	220 mm	22 mm	180 mm	8	16 mm

When ordering a Monsoon monitor, choose one option from each category on page 95. For example Model Y4-M21A is a manual aluminum monitor with 4" ANSI 150 flange inlet and 3.5" NH male threaded outlet. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.

Remote Controlled Deck Monitor - Up To 2000 GPM

Designed for Pumper Applications

The Monsoon RC for pumper installations is an electric remote controlled monitor that has all the benefits of the Monsoon monitor with the addition of powered operation. It has a greater horizontal sweep angle than the RC model for Ladder or Platform installations. Designed for 12 VDC or 24 VDC operation, selection is automatic. The Monsoon RC comes with a factory installed control panel mounted on the monitor for controlling horizontal rotation, elevation, nozzle pattern and programmable PARK and Oscillate. See page 102-103 for additional control stations. The motor control circuits are factory installed on the monitor and use position encoders and current limiting to protect the drive train at the ends of travel. Unit comes with 30 feet of ultra-flexing robotics cable already wired to the monitor so installation effort is minimized. Cable has only four conductors (two for power and two for communications), further easing the installation effort. Cable is enclosed in a unique wire guide that allows 450° of horizontal travel (225° either side of a center position), which is far more reliable than slip rings or coil cords. Knobs for manual override are provided on the horizontal rotation and elevation drive. TFT's Master ERP nozzles plug into the factory installed nozzle power wire. Electric drives and control box are waterproof. Main waterway made from hardcoat anodized ANSI 356-T6 aluminum. Silver powder coat finish inside and out. Standard outlet is 3.5" NH (90 mm) rigid male thread. Other outlets are available. RC Monitor delivered with wireless antenna installed. For wireless operation, purchase wireless operator station package on page 102.



Y4-E11A



37.0 lb (16.8 kg)

SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart

Y4-

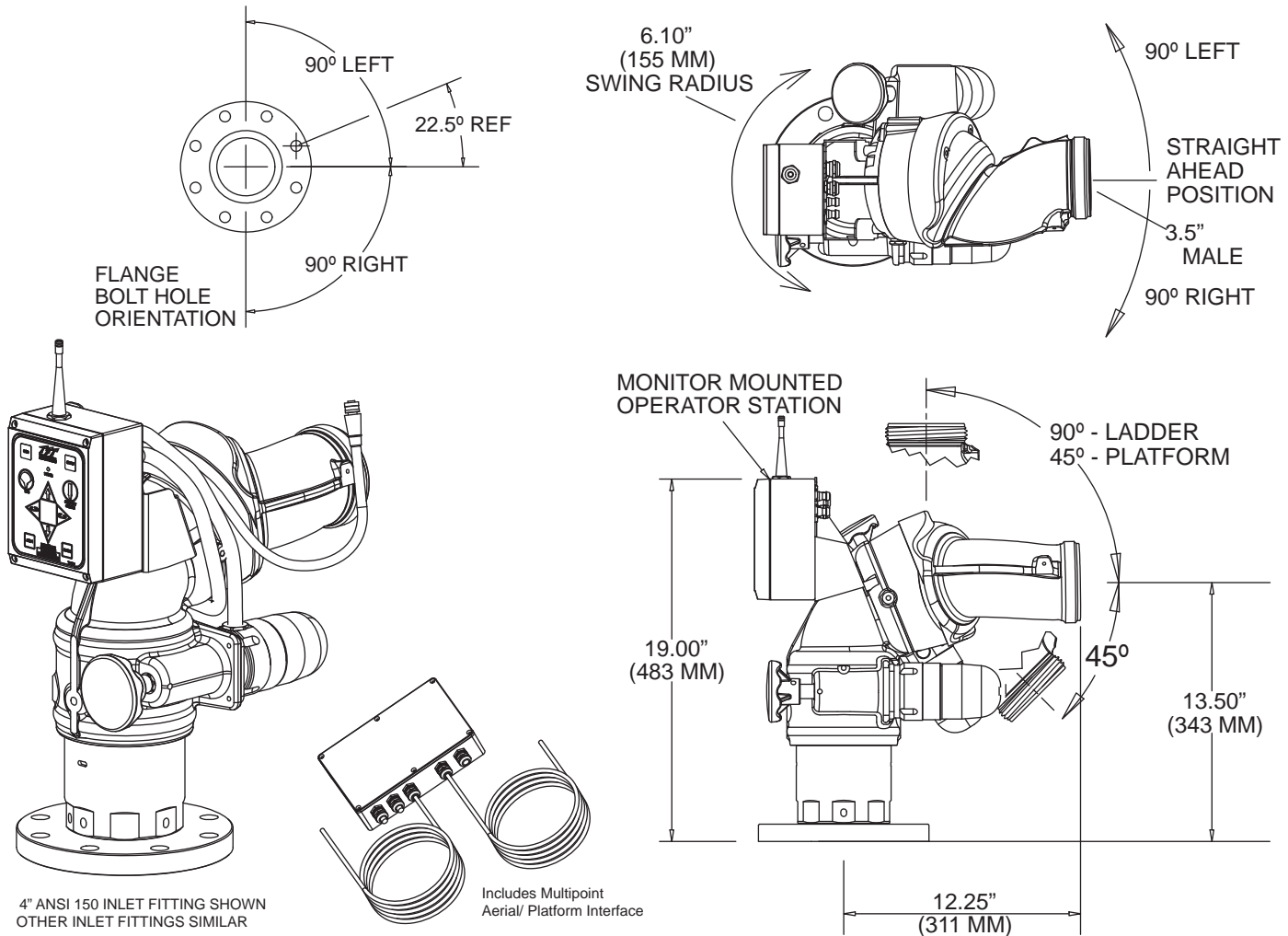
Actuation	Inlet	Outlet
E) Electric	1) 3" ANSI 150	1) 3.5"-6 NH Male
M) Manual	2) 4" ANSI 150	2) 3.5"-11 BSP Male
T) Tiller	3) 6" ANSI 150	3) 3.5"-8 NPSH Male
	4) DN80, PN16	4) 4.0"-11 BSP Male
	5) DN100, PN16	9) Special
	6) 3" NPT Female	
	7) 4" NPT Female	
	8) 3" BSP Male	
	9) 4" BSP Male	
	L) TFT CODE-RLF*	
	P) TFT CODE-RPF*	

*TFT CODE-RLF Fits Extend-A-Gun RC3

*TFT CODE-RPF Fits Extend-A-Gun RC4

Remote Controlled High Clearance Monitor - Up To 2000 GPM Designed For Ladder and Platform Applications

The Monsoon RC for Ladder or Platform installations is similar to the standard Monsoon RC. This model of Monsoon RC has the control box mounted at the top to give a reduced swing radius, thereby giving more clearance for Ladder Truck or Platform Installations. Knobs for manual override are provided on the horizontal rotation and elevation drive. Also comes with factory installed travel stops to limit the horizontal travel to 180 degrees (90 degrees either side of a center position). Ladder and Platform models include an electronics enclosure and 10' of cable to connect signals from the primary control station (such as the turntable toggle switches). These signals can either be hard wired or from a Canbus output module output. The Platform model's electronics enclosure contains an additional 10' cable to connect signals from a secondary control station (such as from basket toggle switches). The primary control signals will always override any signals from the secondary control or the monitor operator station. The electronics enclosure is factory configured to accept +12/24 VDC signals, but can be reconfigured in field to accept ground signals. This electronics enclosure also includes a relay to indicate when the monitor is in PARK position and has contacts that can be connected into the Canbus or multiplex system. A monitor mounted control panel allows vertical, horizontal nozzle pattern adjustments and programmable PARK and Oscillate. See pages 102-103 for additional control stations. RC Monitor delivered with wireless antenna installed. For wireless operation, purchase wireless operator station package on page 102.



Y4-E21A-L



Y4-E

37.0 lb (16.8 kg)

SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart

Inlet		Outlet
1) 3" ANSI 150	7) 4" NPT Female	1) 3.5"-6 NH Male
2) 4" ANSI 150	8) 3" BSP Male	2) 3.5"-11 BSP Male
3) 6" ANSI 150	9) 4" BSP Male	3) 3.5"-8 NPSH Male
4) DN80, PN16	L) TFT CODE-RLF	4) 4.0"-11 BSP Male
5) DN100, PN16	P) TFT CODE-RPF	9) Special
6) 3" NPT Female		

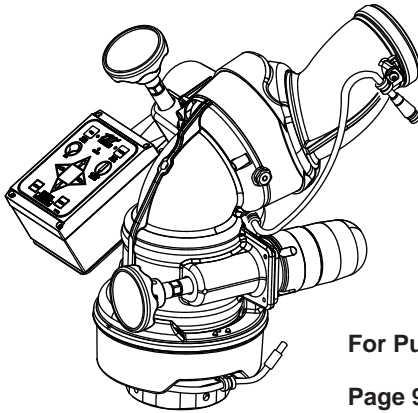
A

Configuration
-L) Ladder
-P) Platform

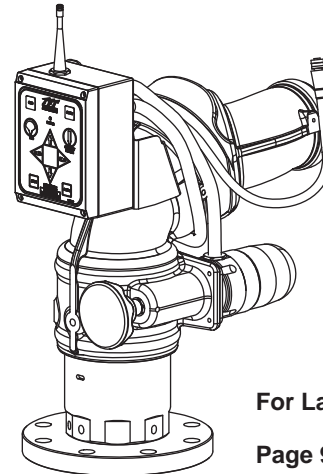
Example: Y4-E21A-L is an electric aluminum monitor for ladders with a 4" ANSI 150 flange inlet and 3-1/2 NH male threaded outlet.

Monsoon RC Package Suggested Options

Rated to 2000 gpm, 200 psi, the Monsoon RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of rotation, elevation angle and nozzle pattern. The unit has an electrically operated elevation control from 90° above and 45° below horizontal through a segmented waterway with minimal waterway turning angles and built-in stream shaping vane. The unit has an electrically operated 450° horizontal rotational travel, stainless steel worm gear, and user installed travel limit stops. User operation controls are mounted on the monitor, and include rotation, elevation, nozzle stream pattern control, and Park & Stow. Optional remote wired, tethered and wireless remote controls are available. The monitor is hardcoat anodized aluminum alloy with a silver powder coat finish inside and out. **NOTE: XGA-RP operator station (see page 103) is required if the RC Extend-A-Gun is not installed with a TFT RC Monitor.**

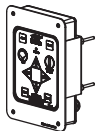


For Pumper Applications
Page 95



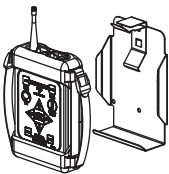
For Ladders & Platforms
Page 96

CONTROLLER CHOICE



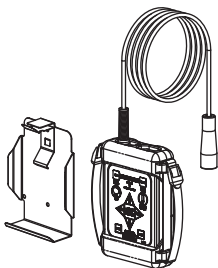
Y4E-RP
Panel Mount
Monitor Operator Station

Page 102



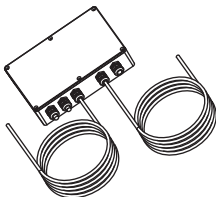
YE-RF-900
Wireless Monitor
Operator Station

\$2000.00
Page 102



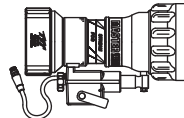
Y4E-CT-30
30' Tethered Monitor
Operator Station

Page 102



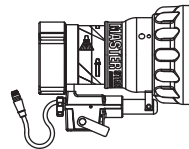
YE-INPUTS1 or 2
Multipoint Aerial Interface

NOZZLE CHOICE



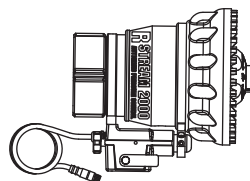
Page 62

M-ERP1000-NN — 3.5"NH
100 psi Masterstream 1000
Automatic Pressure
150-1000 gpm Flow Range



Page 68

M-ERP1500-NN — 3.5"NH
70-120 psi Master Stream 1500
Automatic Pressure
300-1500 gpm Flow Range



Page 70

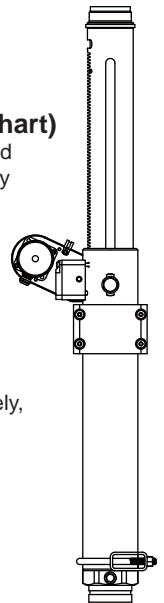
M-ERP2000-NN — 3.5"NH
80-120 psi Master Stream 2000
Automatic Pressure
300-2000 gpm Flow Range

EXTEND-A-GUN RC4

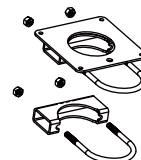
XGA48- (see chart)**
18" Remote Controlled
Telescoping Waterway

Page 82

Panel Mount RC
Extend-A-Gun
Operator Station
available separately,
see page 103.

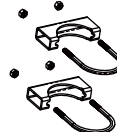


BRACKET CHOICE



XGB-43
PLATE/SADDLE

Page 82



XGB-53
SADDLE/SADDLE

Page 82

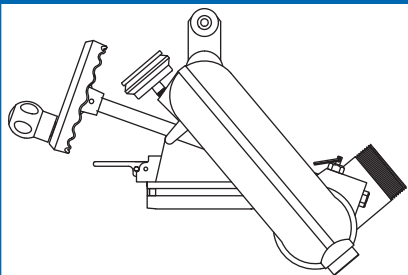


Pumper Combination Package Crossfire & Extend-A-Gun

XFC-71

XFC-71 PACKAGE CONTAINS:
CROSSFIRE Monitor Top
Your Choice of Manual Extend-A-Gun
Your Choice of Mounting Bracket Set

CROSSFIRE TOP INCLUDED



XFT-NJ — 2.5"NH Outlet
Monitor Top
1250 gpm (4500 l/min)

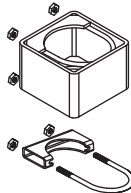
3" BRACKET SET CHOICE

Choose One Option ☒

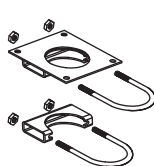
For safe dependable service, the Extend-A-Gun **MUST** be securely mounted. To make the Extend-A-Gun as versatile as possible, three mounting bracket kits are offered.



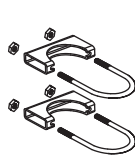
XGB-13
TUBE/
SADDLE



XGB-23
PLATE/
SADDLE



XGB-33
SADDLE/
SADDLE



CHOICE OF EXTEND-A-GUN

Choose One Option ☒



XG12PL-XL
3" Tapered Pipe Male
12" Extended Position



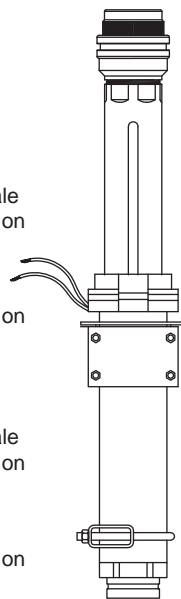
XG12VL-XL
3" Victaulic (75mm)
12" Extended Position



XG18PL-XL
3" Tapered Pipe Male
18" Extended Position



XG18VL-XL
3" Victaulic (75mm)
18" Extended Position

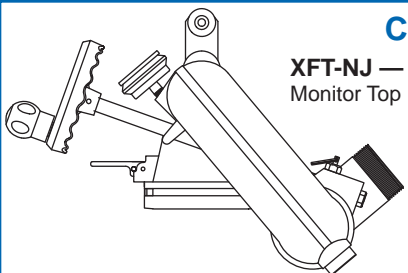


Pumper Combination Package Crossfire & Extend-A-Gun

XFC-72

XFC-72 PACKAGE CONTAINS:
CROSSFIRE Monitor Top
Quad Stack Tips
Your Choice of Stream Straightener
Your Choice of Manual Extend-A-Gun
Your Choice of Mounting Bracket Set

CROSSFIRE TOP & QUAD TIPS INCLUDED



XFT-NJ — 2.5"NH Outlet
Monitor Top 1250 gpm (4500 l/min)



MST-4NJ — 2.5"NH
4 Stacked Tips Laser Engraved Flow Charts

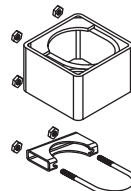
3" BRACKET SET CHOICE

Choose One Option ☒

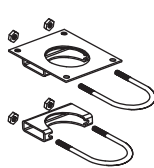
For safe dependable service, the Extend-A-Gun **MUST** be securely mounted. To make the Extend-A-Gun as versatile as possible, three mounting bracket kits are offered.



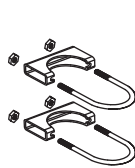
XGB-13
TUBE/
SADDLE



XGB-23
PLATE/
SADDLE



XGB-33
SADDLE/
SADDLE



CHOICE OF EXTEND-A-GUN

Choose One Option ☒



XG12PL-XL
3" Tapered Pipe Male
12" Extended Position



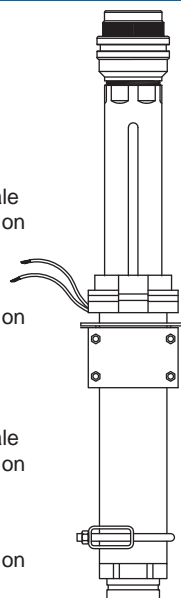
XG12VL-XL
3" Victaulic (75mm)
12" Extended Position



XG18PL-XL
3" Tapered Pipe Male
18" Extended Position



XG18VL-XL
3" Victaulic (75mm)
18" Extended Position



CHOICE OF STREAM STRAIGHTENER

Choose One Option ☒



XF-SS5
5" 2.5" NH



XF-SS10
10" 2.5" NH

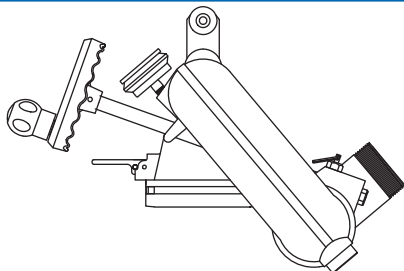
Pumper Combination Packages Crossfire & Extend-A-Gun

XFC-73

XFC-73 PACKAGE CONTAINS:

CROSSFIRE Monitor Top
Your Choice of Halo Master Stream Nozzle
Your Choice of Manual Extend-A-Gun
Your Choice of Mounting Bracket Set

CROSSFIRE TOP INCLUDED



XFT-NJ — 2.5"NH Outlet
Monitor Top
1250 gpm (4500 l/min)

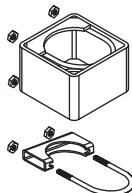
3" BRACKET SET CHOICE

Choose One Option ☒

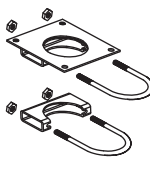
For safe dependable service, the Extend-A-Gun **MUST** be securely mounted. To make the Extend-A-Gun as versatile as possible, three mounting bracket kits are offered.



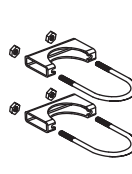
XGB-13
TUBE/
SADDLE



XGB-23
PLATE/
SADDLE



XGB-33
SADDLE/
SADDLE



CHOICE OF EXTEND-A-GUN

Choose One Option ☒



XG12PL-XL
3" Tapered Pipe Male
12" Extended Position



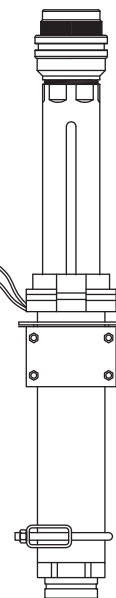
XG12VL-XL
3" Victaulic (75mm)
12" Extended Position



XG18PL-XL
3" Tapered Pipe Male
18" Extended Position



XG18VL-XL
3" Victaulic (75mm)
18" Extended Position

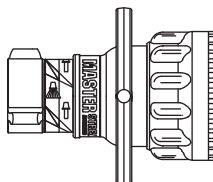


CHOICE OF NOZZLE

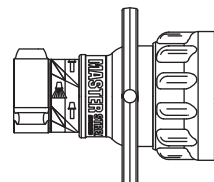
Choose One Option ☒



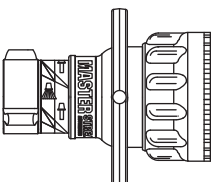
M-R1000-NJ — 2.5"NH
Automatic Pressure Nozzle
150-1000 gpm flow range
(600-4000 l/min)



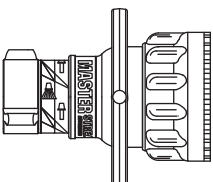
M-R1250SNJ — 2.5"NH
Automatic Pressure Nozzle
150-1250 gpm flow range
(600-4500 l/min)



M-RS1000-NJ — 2.5"NH
Selectable Flow Nozzle
250, 350, 500, 750 or 1000 gpm
Flow is User Adjusted
gpm is based on 100 psi



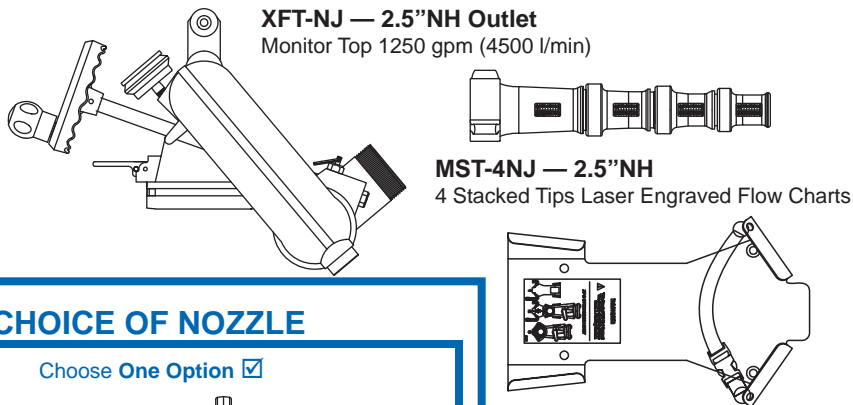
M-RF1000-NJ — 2.5"NH
Fixed Flow Nozzle
1000 gpm (4000 l/min) max
Must Specify Flow & Pressure



XFC-62

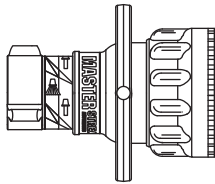
XFC-62 PACKAGE CONTAINS:
 CROSSFIRE Monitor Top
 Quad Stacked Tips
 Crossfire Storage Bracket
 SAFE-TAK 1250 Base w/Choice of Inlet
 Your Choice of Halo Master Nozzle
 Your Choice of Stream Straightener
 Your Choice of Manual Extend-A-Gun
 Choice of Mounting Bracket Set

CROSSFIRE TOP, QUAD TIPS & BRACKET INCLUDED



CHOICE OF NOZZLE

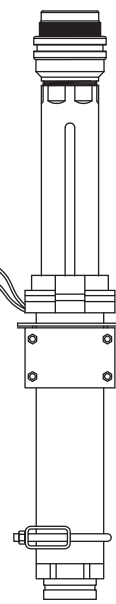
Choose One Option ☒



- | | |
|--|--|
| <input type="checkbox"/> M-R1000-NJ — 2.5"NH
Automatic Pressure Nozzle
150-1000 gpm flow range
(600-4000 l/min) | <input type="checkbox"/> M-RF1000-NJ — 2.5"NH
Fixed Flow Nozzle
1000 gpm (4000 l/min) max
Must Specify Flow & Pressure |
| <input type="checkbox"/> M-RS1000-NJ — 2.5"NH
Selectable Flow Nozzle
250, 350, 500, 750 or 1000 gpm
Flow is User Adjusted
gpm is based on 100 psi | <input type="checkbox"/> M-R1250SNJ — 2.5"NH
Automatic Pressure Nozzle
150-1250 gpm flow range
(600-4500 l/min) |

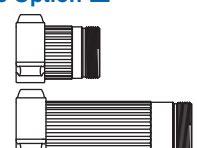
CHOICE OF EXTEND-A-GUN

Choose One Option ☒

- | | |
|--|--|
| <input type="checkbox"/> XG12PL-XL
3" Tapered Pipe Male
12" Extended Position |  |
| <input type="checkbox"/> XG12VL-XL
3" Victaulic (75mm)
12" Extended Position | |
| <input type="checkbox"/> XG18PL-XL
3" Tapered Pipe Male
18" Extended Position | |
| <input type="checkbox"/> XG18VL-XL
3" Victaulic (75mm)
18" Extended Position | |

CHOICE OF STREAM STRAIGHTENER

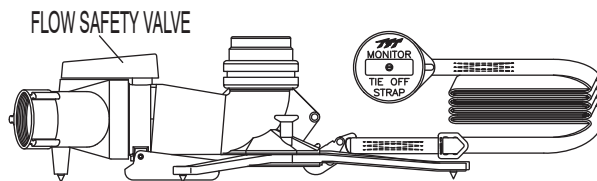
Choose One Option ☒

- | | |
|--|---|
| <input type="checkbox"/> XF-SS5
5" 2.5" NH |  |
| <input type="checkbox"/> XF-SS10
10" 2.5" NH | |

SAFE-TAK 1250 BASE w/CHOICE OF INLETS

Choose One Option ☒

XFH-*
 SAFE-TAK 1250
 Portable Base

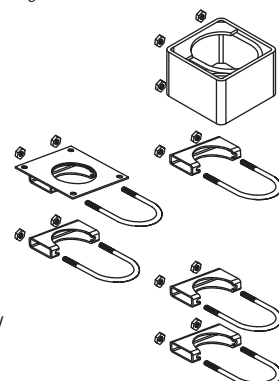


- | | |
|--|--|
| <input type="checkbox"/> XFH-1NP
Single 4"NH
(100mm) | <input type="checkbox"/> XFH-1ST
Single 5"Storz
(125mm) |
| <input type="checkbox"/> XFH-1NL
Single 3"NH
(75mm) | <input type="checkbox"/> XFH-1NR
Single 4.5"NH
(115mm) |
| <input type="checkbox"/> XFH-1NN
Single 3.5"NH
(90mm) | <input type="checkbox"/> XFH-1SP
Single 4"Storz
(100mm) |
| | <input type="checkbox"/> XFH-1SX
Single 6"Storz
(150mm) |
| | <input type="checkbox"/> XFH-2NJ
Dual 2.5"NH
(65mm) |

CHOICE OF 3" BRACKET SET

Choose One Option ☒

For safe dependable service, the Extend-A-Gun **MUST** be securely mounted. To make the Extend-A-Gun as versatile as possible, three mounting bracket kits are offered.

- | | |
|---|---|
| <input type="checkbox"/> XGB-13
TUBE/
SADDLE |  |
| <input type="checkbox"/> XGB-23
PLATE/
SADDLE | |
| <input type="checkbox"/> XGB-33
SADDLE/
SADDLE | |

Pumper Combination Package Hurricane and Extend-A-Gun

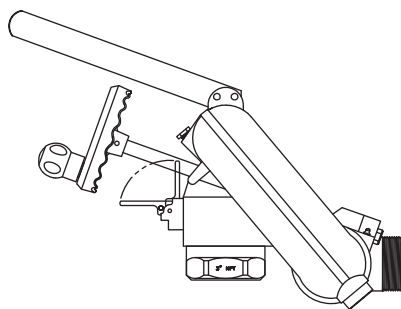


XFC-63

XFC-63 PACKAGE CONTAINS:

HURRICANE Monitor
Quad Stacked Tips
Your Choice of Halo Master Nozzle
Your Choice of Stream Straightener
Your Choice of Manual Extend-A-Gun
Choice of Mounting Bracket Set

FIXED STATION MONITOR & QUAD TIPS INCLUDED



XFI-PLNJ HURRICANE MONITOR

3" (75mm) Female NPT Inlet
2.5" NH (65mm) Outlet
1250 gpm (4500 l/min)



MST-4NJ — 2.5"NH

4 Stacked Tips
Laser Engraved Flow Charts

CHOICE OF STREAM STRAIGHTENER

Choose One Option ☒



XF-SS5

5" (125 mm) vane length



XF-SS10

10" (250 mm) vane length

CHOICE OF EXTEND-A-GUN

Choose One Option ☒



XG12PL-PL

3" Tapered Pipe Male
12" Extended Position



XG12VL-PL

3" Victaulic (75mm)
12" Extended Position



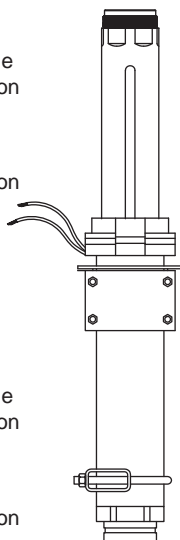
XG18PL-PL

3" Tapered Pipe Male
18" Extended Position



XG18VL-PL

3" Victaulic (75mm)
18" Extended Position



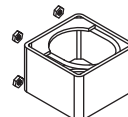
CHOICE OF 3" BRACKET SET

Choose One Option ☒

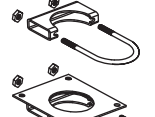
For safe dependable service, the Extend-A-Gun **MUST** be securely mounted. To make the Extend-A-Gun as versatile as possible, three mounting bracket kits are offered.



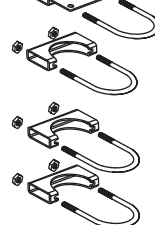
XGB-13 TUBE/ SADDLE



XGB-23 PLATE/ SADDLE

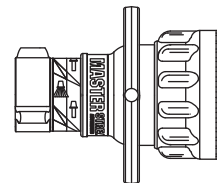


XGB-33 SADDLE/ SADDLE



CHOICE OF NOZZLE

Choose One Option ☒



M-R1000-NJ — 2.5"NH

Automatic Pressure Nozzle
150-1000 gpm flow range
(600-4000 l/min)



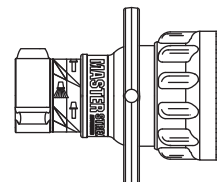
M-RS1000-NJ — 2.5"NH

Selectable Flow Nozzle
250, 350, 500, 750 or 1000 gpm
Flow is User Adjusted
gpm is based on 100 psi



M-RF1000-NJ — 2.5"NH

Fixed Flow Nozzle
1000 gpm (4000 l/min) max
Must Specify Flow & Pressure



M-R1250SNJ — 2.5"NH

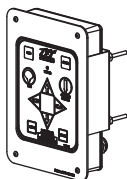
Automatic Pressure Nozzle
150-1250 gpm flow range
(600-4500 l/min)

REMOTE CONTROL ACCESSORIES

These accessories and components are for use with Tornado RC, Hurricane RC, Typhoon RC and Monsoon RC and allow control of the monitors at remote locations. The Panel Mount, Tethered and Wireless Operator Stations have a waterproof membrane switch to control vertical, horizontal, and nozzle patterns, as well as the programmable PARK and Oscillate, Power, PARK and Oscillate indicator lights are standard. Two Auxiliary buttons are included and require the Remote Auxiliary Function Relay Interface Box or valve kit to control lights, valve controllers or other equipment. All operator stations are equipped with "last button pressed" software so any button presses from the operator station will take over control from any other operator station. These operator stations can also be configured, by an internal DIP switch, as a "master" station so that commands from the operator station cannot be overridden.

Y4E-RP

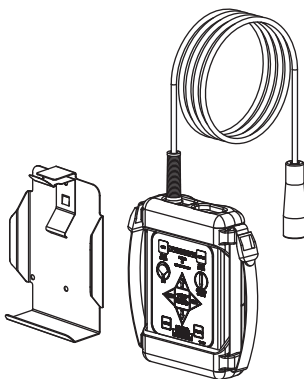
2.7 lb (1.2kg)
8.00" x 5.625" x 3.5"
(20.3 x 14.3 x 8.9 cm)



Y4E-RP PANEL MOUNT MONITOR OPERATOR STATION - This operator station allows the electric monitor to be controlled from a remote location and is designed to be flush mounted in a panel. This station may be used as the central location for terminating the wires from the monitor, incoming power, or hard wired inputs. All terminal blocks for wire connections are removable for easy terminating. The enclosure has a silicone seal, cover screws with o-rings, liquid tight strain relief fittings with o-rings, and a membrane switch to keep water out. Only two wires are required to send commands to the monitor control box. A 30' long cable for incoming power and communication connections is supplied pre-connected. This operator station is equipped with "last button pressed" software or can be configured as a "master" station.

Y4E-CT-10

7.6 lb (3.4kg)
7.30" (18.4cm)



Y4E-CT-10 TETHERED MONITOR OPERATOR STATION - This operator station allows the electric monitor to be controlled from a handheld pendant. This operator station is supplied with a stainless steel mounting bracket to securely store the unit. The enclosure has an o-ring seal, liquid tight strain relief fitting with o-rings, and a membrane switch to keep water out. Any commands from this operator station will override commands made on the monitor control box. The pendant receptacle can be connected to the Panel Mount Operator Station or directly to the monitor through a customer supplied terminal block. A cable is supplied pre-connected to the panel-mounted receptacle and includes waterproof cap and chain. The Tethered Control Station is supplied with a 10' long pre-connected cable. This pendant plugs into a panel-mounted receptacle. This operator station is equipped with "last button pressed" software or can be configured as a "master" station. Mounting bracket meets NFPA 1901 9G force requirements which ensures the security of equipment and safety of personnel.

Y4E-CT-30

7.6 lb (3.4kg)
7.30" (18.4cm)

Y4E-CT-100

7.6 lb (3.4kg)
7.30" (18.4cm)

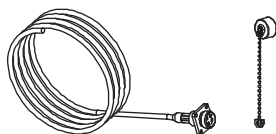
Y4E-CT-30 TETHERED MONITOR OPERATOR STATION - Same as above but the Tethered Control Station is supplied with a 30' long pre-connected cable.

Y4E-CT-100 TETHERED MONITOR OPERATOR STATION - Same as above but the Tethered Control Station is supplied with a 100' long pre-connected cable.

Y4E-CT-EXT Contact customer service for longer tether.

YE-RECEP-4

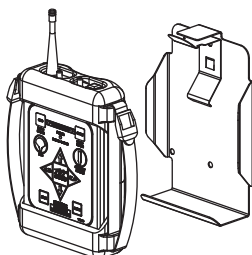
30.00ft (9.1m)



YE-RECEP-4 PANEL MOUNTED RECEPTACLE - This receptacle allows tethered monitor operator stations to be connected at additional locations. A 30' long cable with a pre-connected receptacle is supplied. Includes waterproof cap and chain.

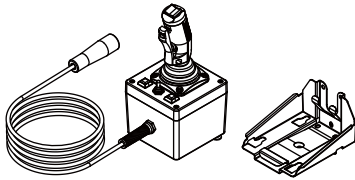
YE-RF-900 YE-RF-2400

3.1 lb (1.4kg)
11.30" (28.7cm)



YE-RF-900 WIRELESS MONITOR OPERATOR STATION, 900 MHz - This operator station allows the electric monitor to be controlled using a wireless handheld transmitter. The wireless transmitter will operate up to 500 feet away from the truck. This operator station is supplied with a stainless steel mounting bracket to securely store the handheld unit. A radio module is supplied and needs to be installed into any TFT RC monitor control box. **For upgrade of existing monitor, verify that the Monitor has an antenna installed. Only monitors with an antenna can be upgraded.** See RC monitor installation & operation manual for operating frequency agency approvals or consult factory for agencies not listed. Mounting bracket meets NFPA 1901 9G force requirements which ensures the security of equipment and safety of personnel.

YE-RF-2400 WIRELESS MONITOR OPERATOR STATION, 2.4 GHz Commonly used for International installations. Same as the YE-RF-900 with a different operating frequency.



Y4E-JS
Y4E-JS-52

5.0 lb (2.3 kg)
10.00" x 4.75" x 4.75"
(25.4 x 12 x 12 cm)

Y4E-JS JOYSTICK MONITOR OPERATOR STATION This operator station allows any TFT RC electric monitor to be controlled using a joystick. Moving the joystick controls monitor vertical and horizontal movement. Thumb switches control nozzle pattern. A lever built into the joystick handle can be used to open and close some water valves. The joystick is factory installed on an enclosure that houses the control electronics and a 10' cable is supplied with stripped wires for connection in the control system terminal box. The joystick control is also equipped with push buttons on top for PARK and OSCILLATE functions as well as a toggle switch to select water valve open, close, and joystick control. The joystick control is factory wired so that the AUX2 button on TFT monitor operator stations will also open and close the water valve. Mounting bracket meets NFPA 1901 9G force requirements which ensures the security of equipment and safety of personnel.

Y4E-JS-52 Same as above except cable has plug to connect to YE-VK-PH valve interface box receptacle.

XGA-RP

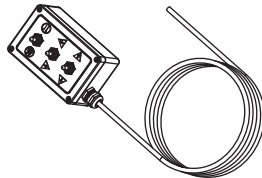
1.0 lb (0.4kg)
5.25" x 3.75"
(13.3cm x 9.5cm)



XGA-RP PANEL MOUNT RC EXTEND-A-GUN OPERATOR STATION This operator station allows the RC Extend-A-Gun to be controlled from a remote location when the user wants a separate control from a TFT RC monitor operator station or if there is no RC monitor AUX1 button available. The plate is designed to be flush mounted in a panel and a 12' long pre-connected cable is supplied which connects to a receptacle on RC Extend-A-Gun interface box. **NOTE: This operator station is required if the RC Extend-A-Gun is not installed with a TFT RC Monitor.**

Y4E-TS

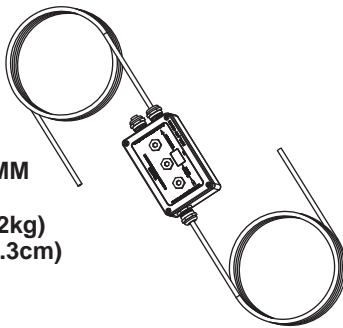
2.7 lb (1.2kg)
8.00" (20.3cm)



Y4E-TS TOGGLE SWITCH MONITOR OPERATOR STATION - This operator station allows any TFT RC electric monitor to be controlled using three toggle switches. Switches control monitor vertical and horizontal movement plus nozzle pattern adjustment. The operator station can be surface mounted. A 10' long 4-conductor cable for power and communication is supplied pre-connected. This operator station is equipped with "last button pressed" software or can be configured as a "master" station.

Y4E-COMM

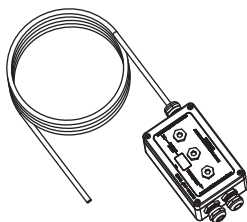
2.7 lb (1.2kg)
8.00" (20.3cm)



Y4E-COMM MONITOR COMMUNICATION INTERFACE BOX - This communication interface box converts discrete input signals into communications for controlling any TFT RC electric monitor. The discrete input signals can be from a joystick, installer supplied toggle switches, relay contacts or canbus output module. The interface box accepts +12/24 VDC signals, but can be field changed to accept ground signals. This interface box also includes a relay to indicate when the monitor is in PARK position and has contacts that can be connected into the door open or Extend-A-Gun raised warning light. The interface box can be surface mounted. A 10' long 4-conductor cable for power and communication is supplied pre-connected. Also a 10' long cable is supplied pre-connected for connection to the input signals. This interface box is equipped with "last button pressed" software or can be configured as a "master" station.

YE-REMAUX

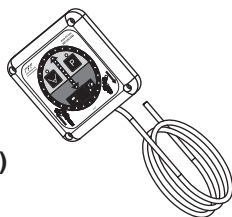
2.7 lb (1.2kg)
8.00" (20.3cm)



YE-REMAUX REMOTE AUXILIARY FUNCTION RELAY INTERFACE BOX This interface box allows a user to utilize the AUX1 and AUX2 buttons located on the monitor operator station, any remote operator station with a membrane switch or inputs located in part #Y4E-COMM. The interface box is equipped with two relays that can operate lights, interface to a valve controller or in some cases operate a valve directly, etc. The contact rating of the relay is 16 amps @ 30VDC for resistive loads and 8 amps @ 30VDC for inductive loads. A 10' long 4-conductor cable for power and communication is supplied pre-connected.

Y4E-DISP

2.7 lb (1.2kg)
4.25" x 3.5"
(10.7cm x 8.9cm)



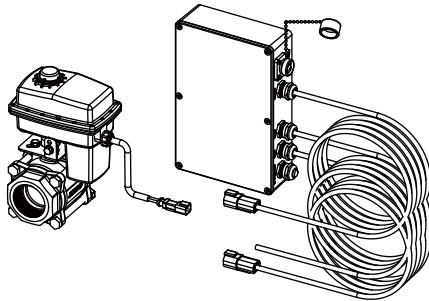
Y4E-DISP MONITOR POSITION DISPLAY This display will show the stream position of any TFT RC electric monitor. Position is indicated by two sets of LEDs, one set for the vertical position and one set for the horizontal position. Buttons for the PARK & Oscillate features and HIGH/LOW speed selection are also supplied. A 10' long 4-conductor cable for power and communication is supplied pre-connected.

VALVE KITS

Valve operation is controlled through the Y4E-JS-52 Joystick Monitor Operator Station or the AUX2 button on any TFT monitor operator station membrane switch. The interface box includes pre-wired 20' cables with receptacles for monitor and water valve plug connections, a 15' cable for power connection to monitor control system, a panel-mounted receptacle with cap for the Y4E-JS-52 Joystick Monitor Operator Station connection, and an unused strain relief fitting for an additional operator station cable. The interface box and all fittings are sealed to keep water out so that it can be mounted outside the truck cab in a convenient location for connections to components.

YE-VK-PF

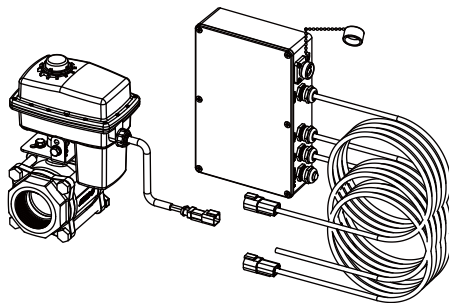
8.5 lbs (3.8 kg)
4.80"L x 7.10"W x 9.40"H
(12.2 x 18.0 x 23.9cm)



YE-VK-PF - VALVE KIT This valve kit includes a heavy-duty 1 1/2" NPT water valve and an interface box for simplified 12/24 volt wire connections to the monitor control system. The valve is a 1 1/2" NPT full port stainless steel ball valve with integral electric actuator control and cable with pre-wired plug.

YE-VK-PH

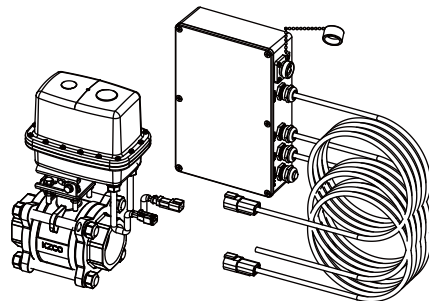
9.0 lb (4.0kg)
5.40"L x 7.10"W x 10.0"H
(13.7 x 18.0 x 25.4cm)



YE-VK-PH - VALVE KIT This valve kit includes a heavy-duty 2" NPT water valve and an interface box for simplified 12/24 volt wire connections to the monitor control system. The valve is a 2" NPT full port stainless steel ball valve with integral electric actuator control and cable with pre-wired plug.

YE-VK-PJ

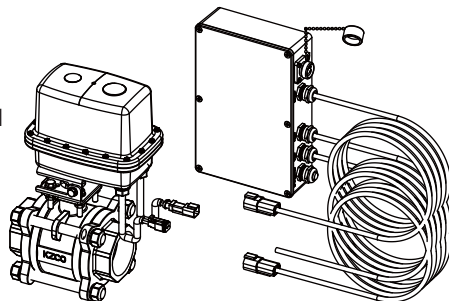
23.0 lbs (13.2 kg)
6.70"L x 8.60"W x 13.70"H
(17.0 x 21.8 x 34.8 cm)



YE-VK-PJ - VALVE KIT This valve kit includes a heavy-duty 2 1/2" NPT water valve and an interface box for simplified 12/24 volt wire connections to the monitor control system. The valve is a 2 1/2" NPT full port stainless steel ball valve with integral electric actuator control and cables with pre-wired plugs.

YE-VK-PL

29.0 lbs (13.2 kg)
7.40"L x 8.90"W x 14.30"H
(18.8 x 22.6 x 36.3 cm)



YE-VK-PL - VALVE KIT This valve kit includes a heavy-duty 3" NPT water valve and an interface box for simplified 12/24 volt wire connections to the monitor control system. The valve is a 3" NPT full port stainless steel ball valve with integral electric actuator control and cables with pre-wired plugs.

Valve Interface Control

Weight 7.0 lb (3.1kg)
 Overall Dimensions:
 L 8.80" (22.4cm) x W 5.80" (14.7cm) x H 2.20" (5.6cm)
 (Additional clearance needed for fittings and cable)

Retro Kits Include:

Motorized Acuator and TFT Interface box with hardware to convert an existing valve for use with TFT RC components. Call TFT Technical Support Team for assistance in ordering the retro kit to fit your needs. 1-800-348-2686.

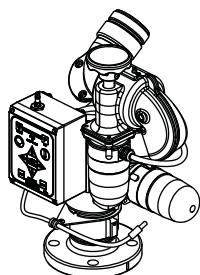
TFT ATEX RC Monitors are electrically operated with high flow and low friction loss characteristics. Designed for 12 VDC or 24 VDC operation, selection is automatic. Horizontal and elevation stream positions are controlled by strong DC motors and a factory installed control panel mounted on the monitor. Position encoders and current limiting are used to protect the drive train at the ends of travel. Field changeable stops for horizontal rotation and elevation are included. Available with various inlets and outlets. TFT's ER nozzle plugs into the factory installed nozzle power wire. Electric drives and control box are waterproof, meeting requirements for an IP65 rating. Main waterway made from hardcoat anodized ANSI 356-T6 aluminum with red powder coat finish inside and out.

TFT ATEX RC Monitors are designed, tested and approved for use in Classified Hazardous Locations as defined by European Directive 94/9/EC, commonly referred to as the ATEX Directive. Further classification identifies that Zone 2, Category 3 environments are suitable locations for this equipment. It is important to note that only the RC Monitor and Nozzle are certified for installation in the hazardous area. TFT RC Monitor Operator Stations may be used to control monitor functions, but must be installed outside of the hazardous area according to application requirements. It is the responsibility of the facility design engineer to determine suitable location and connection of components for use in the hazardous environment based on electrical, mechanical, hydraulic, and hazardous location classification requirements.

TFT ATEX RC Monitors are shipped for use with wired controls/operator stations. For wireless control, please consult factory for ordering details.

Tornado

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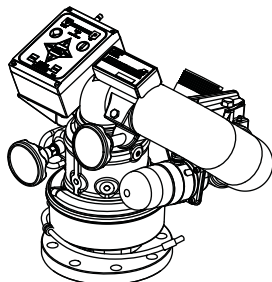
Y2-E

Inlet		Outlet
1) 2.5"-7.5 NH Female	6) 2.5" ANSI 150	1) 2.5"-7.5 NH Male
2) 2.5"-11 BSP Female	7) 2.5"-8 NPT Female	2) 2.5"-11 BSP Male
3) 2.0"-11 BSP Female	8) 2.0"-11.5 NPT Female	3) 1.5"-11 BSP Male
5) DN80, PN16	9) 3.0" -8 NPT Female	4) 1.5"-9 NH Male

A-A

Hurricane

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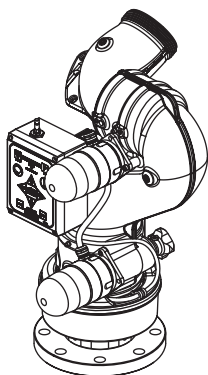
XFIH-E

Inlet		Outlet
1) 3" ANSI 150	6) 3" NPT Female	1) 2.5" - 7.5 NH Male (65mm)
2) 4" ANSI 150	7) 4" NPT Female	2) 2.5" - 11 BSP Male (65mm)
4) DN80, PN16	8) 3" BSP Male	
5) DN100, PN16	9) 4" BSP Male	

A-A

Typhoon

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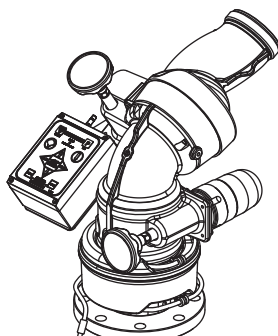
Y5-E

Inlet		Outlet
1) 3" ANSI 150	6) 3" NPT Female	1) 3.5"-6 NH Male
2) 4" ANSI 150	7) 4" NPT Female	2) 3.5"-11 BSP Male
5) DN100, PN16		4) 4.0"-11 BSP Male

A-A

Monsoon

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Y4-E

Inlet		Outlet
1) 3" ANSI 150	6) 3" NPT Female	1) 3.5"-6 NH Male
2) 4" ANSI 150	7) 4" NPT Female	2) 3.5"-11 BSP Male
3) 6" ANSI 150	8) 3" BSP Male	3) 3.5"-8 NPSH Male
4) DN80, PN16	9) 4" BSP Male	4) 4.0"-11 BSP Male
5) DN100, PN16		

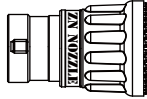
A-A

ZN INDUSTRIAL NOZZLES

The Task Force Tips fixed gpm water nozzle is a simple and rugged industrial nozzle with superior stream quality and reach. This fixed gallonage fog nozzle rated at 100 psi (7 bar) is available with your choice of 350, 500, or 750 (1300, 2000, or 3000 l/min). fog angle is user adjustable between 120 degree wide fog and straight stream. The nozzle's baffle can be removed with a wrench for flushing debris. The standard inlet is 2.5" NH, NPSH, or BSP (65mm) female thread. The simple and basic design requires no grease or other maintenance. The rubber bumper is UV resistant. The fixed gpm water nozzle is Hardcoat anodized ANSI A356.0 T6 aluminum. The fixed gpm nozzle can be used with water or premixed foam solution.

ZN11A

4.5 lb (2.0kg)
6.00" (15.2cm)



Choose your model from the chart on page 107. For example, model ZN12A is 2.5" NH female thread, 500 gpm at 100 psi nozzle. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.

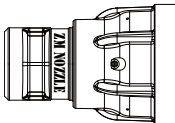
SAMPLE PART NUMBER
Specify Thread and Flow by
number from chart

ZM INDUSTRIAL NOZZLES

The Task Force Tips fixed gpm water nozzle is a simple and rugged industrial nozzle with superior stream quality and reach. This fixed gallonage fog nozzle rated at 100 psi (7 bar) is available with your choice of 500, 750, 1000, or 1250 (2000, 3000, 4000, or 4750 l/min). Fog angle is user adjustable between 120 degree wide fog and straight stream. The nozzle's baffle can be removed with a wrench for flushing debris. The standard inlet is 2.5" NH, NPSH, or BSP (65mm) female thread. The simple and basic design requires no grease or other maintenance. The fixed gpm water nozzle is powdercoated and hardcoat anodized ANSI A356.0 T6 aluminum. The fixed gpm nozzle can be used with water or premixed foam solution.

ZM131

7.2 lb (3.3kg)
8.80" (22.4cm)



Choose your model from the chart on page 107. For example, model ZM131 is 2.5" NH female thread, 1000 gpm at 100 psi nozzle. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.

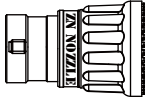
SAMPLE PART NUMBER
Specify Thread and Flow by
number from chart



1000 gpm and 1250 gpm ZM Industrial nozzles are FM Approved.

FoamJet Model for ZN Series FJ-LX-MD

2.5" (65mm) Nozzle Series 250, 350, 500 or 750 gpm Fixed Gallonage



Choose one option from each category. For example Model ZN 1 2 A is 2.5" NH Female thread, 500 gpm at 100 psi nozzle. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.

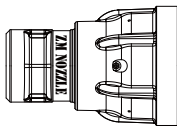
ZN

THREADS (Rigid)	FLOW
1) 2.5"-7.5 TPI NH FEMALE 2) 2.5"-11 TPI BSP FEMALE 3) 2.5"-11.5 TPI NPSH FEMALE 4) 2.5" CODE-AT (CSA) (2.5" = 65mm)	0) 250 GPM @ 100 PSI — Kfactor = 25 (950 l/min @ 7 bar) 1) 350 GPM @ 100 PSI — Kfactor = 35 (1300 l/min @ 7 bar) 2) 500 GPM @ 100 PSI — Kfactor = 50 (2000 l/min @ 7 bar) 3) 750 GPM @ 100 PSI — Kfactor = 75 (3000 l/min @ 7 bar) 4) User Specified Kfactor = 15 - 75

A



ZM INDUSTRIAL NOZZLES

2.5" (65mm) Nozzle Series 500, 750, 1000 or 1250 gpm Fixed Gallonage



Choose one option from each category. For example Model ZM111 is 2.5" NH Female thread, 500 gpm at 100 psi nozzle. For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.

ZM

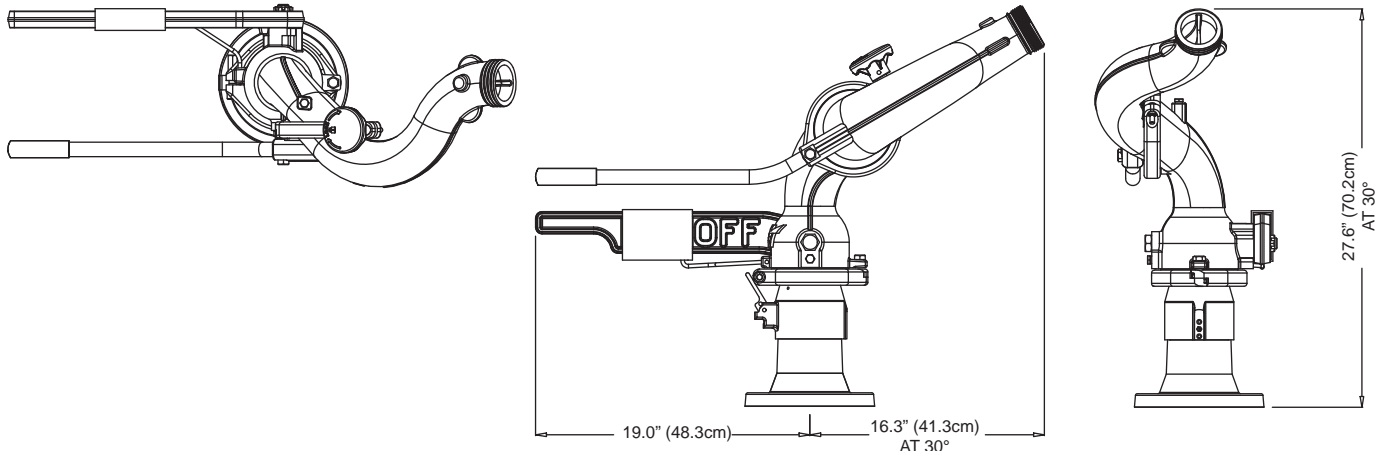
THREADS (Rigid)	FLOW
1) 2.5"-7.5 TPI NH FEMALE 2) 2.5"-11.5 NPSH FEMALE 3) 2.5"-11 BSP FEMALE (2.5" = 65mm)	1) 500 GPM @ 100 PSI — Kfactor = 50 (2000 l/min @ 7 bar) 2) 750 GPM @ 100 PSI — Kfactor = 75 (3000 l/min @ 7 bar) 3) 1000 GPM @ 100 PSI — Kfactor = 100  (3800 l/min @ 7 bar) 4) 1250 GPM @ 100 PSI — Kfactor 125  (4800 l/min @ 7 bar) 9) User Specified Kfactor = 50 - 125

1



Fixed Station Monitor - Up To 1250 GPM

The Task Force Tips' Protector is a simple and rugged fixed station monitor with many unique features. Its patented waterway gives low friction loss and delivers water to the nozzle with fewer twists and turns than a conventional monitor. The optional built-in on/off valve with position indicator eliminates the need to add a costly valve to the monitor installation. The Protector is capable of flowing up to 1250 gpm (4500 l/min) while maintaining a FULL 360° rotational ability. The lever-action rotational lock is activated in one motion, visually confirmed, and securely holds the monitor's horizontal position. The Protector can be directly bolted to many common pipe flanges. The outlet is available with various 2.5" (65mm) male threads. The simple and basic design requires no grease application or other maintenance. Swiveling elements and seals (including valve seat) can be replaced within a few minutes with common hand tools. Threaded ports (0.25" NPT) (6mm) are provided for drain valve and pressure gauge installation. Maximum pressure is 250 psi (17 bar). The Protector is hardcoat anodized ANSI 356-T6 aluminum and is fully powder coat finished inside and out. Swivel clamps, 3" (75mm) valve ball, trunnions, and hardware are 18-8 stainless steel.



INLET SPECIFICATIONS

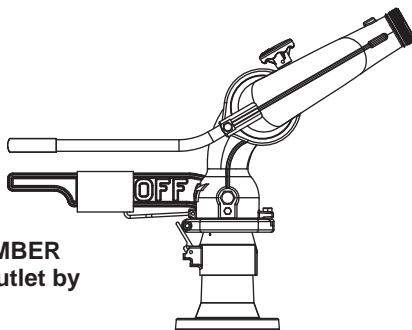
FITS FLANGE	OUTSIDE DIAMETER	THICKNESS	BOLT HOLE CIRCLE	NUMBER OF BOLTS	SIZE OF BOLTS
3" ANSI 125/150 - DN80 PN20	7.50" / 190 mm	0.75" / 20 mm	6.00" / 152.5 mm	4	5/8" / M16
4" ANSI 150 - DN100 PN20	9.00" / 230 mm	0.94" / 3 mm	7.50" / 90.5 mm	8	5/8" / M16
DN80 PN16	200 mm	22 mm	160 mm	8	16 mm
DN100 PN16	220 mm	22 mm	180 mm	8	16 mm

Valve with Threaded Exit - Protector monitor with on/off valve and 2.5" (65mm) threaded exit. 1250 gpm (4500 l/min) rating. See chart to obtain model number for specific inlet and outlet options.

Z1111A

35.2 lb (15.7kg)

SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart



Z11

Inlet	Outlet
1) 3" ANSI 150	1) 2.5" (65mm) - 7.5 NH
2) 4" ANSI 150	2) 2.5" (65mm) - 11 BSP
4) DN80, PN16	3) 2.5" (65mm) - 11.5 NPSH
5) DN100, PN16	9) SPECIAL THREADS

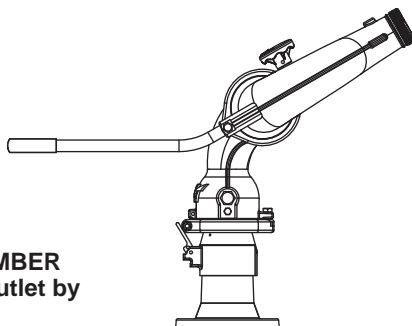
A

No Valve with Threaded Exit - Protector monitor without on/off valve and with 2.5" (65mm) threaded exit. 1250 gpm (4500 l/min) rating. See chart to obtain model number for specific inlet and outlet options.

Z1211A

27.8 lb (12.6kg)

SAMPLE PART NUMBER
Specify Inlet and Outlet by
number from chart

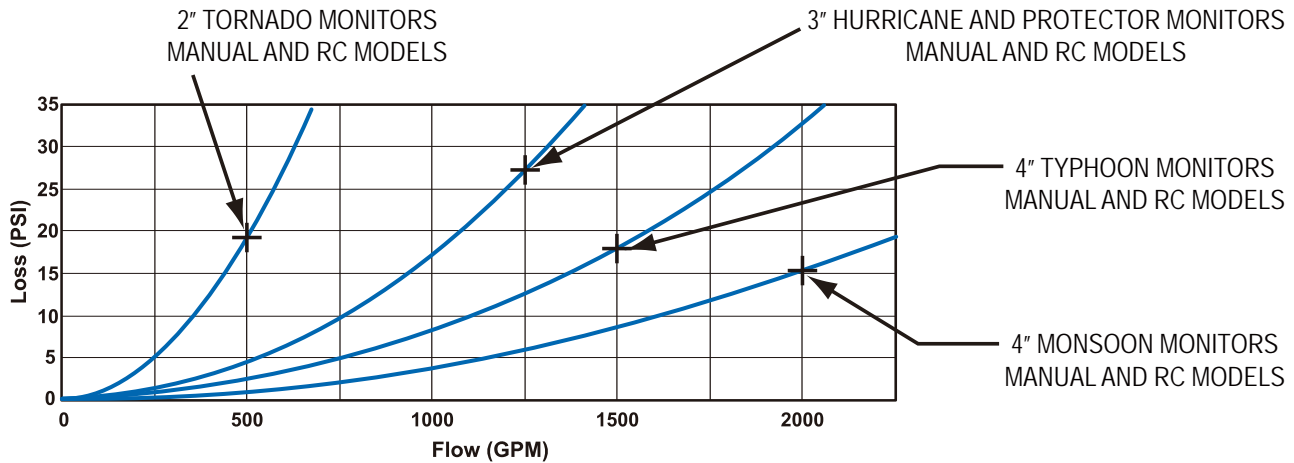


Z12

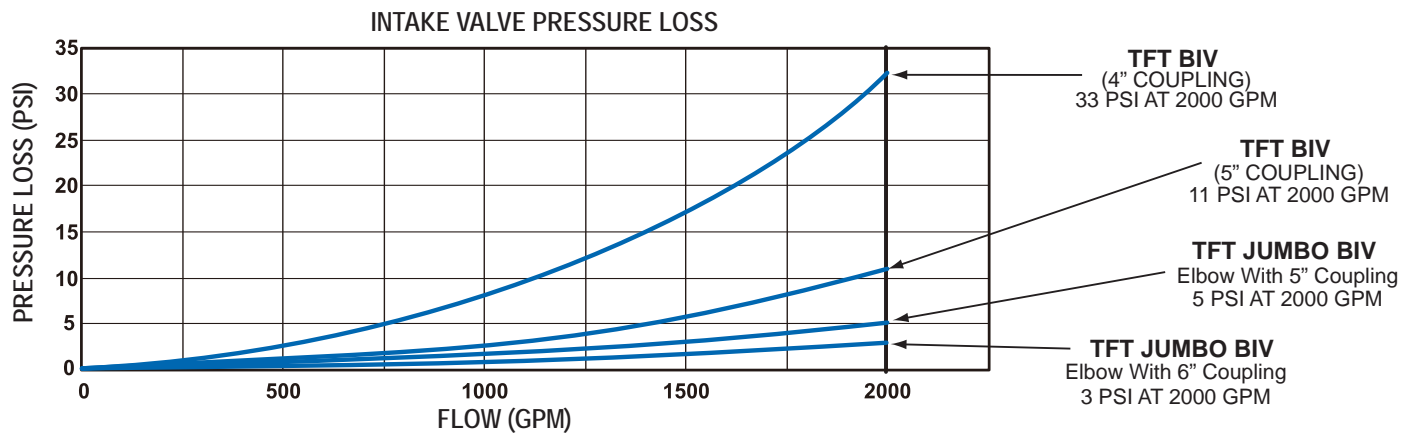
Inlet	Outlet
1) 3" ANSI 150	1) 2.5" (65mm) - 7.5 NH
2) 4" ANSI 150	2) 2.5" (65mm) - 11 BSP
4) DN80, PN16	3) 2.5" (65mm) - 11.5 NPSH
5) DN100, PN16	9) SPECIAL THREADS

A

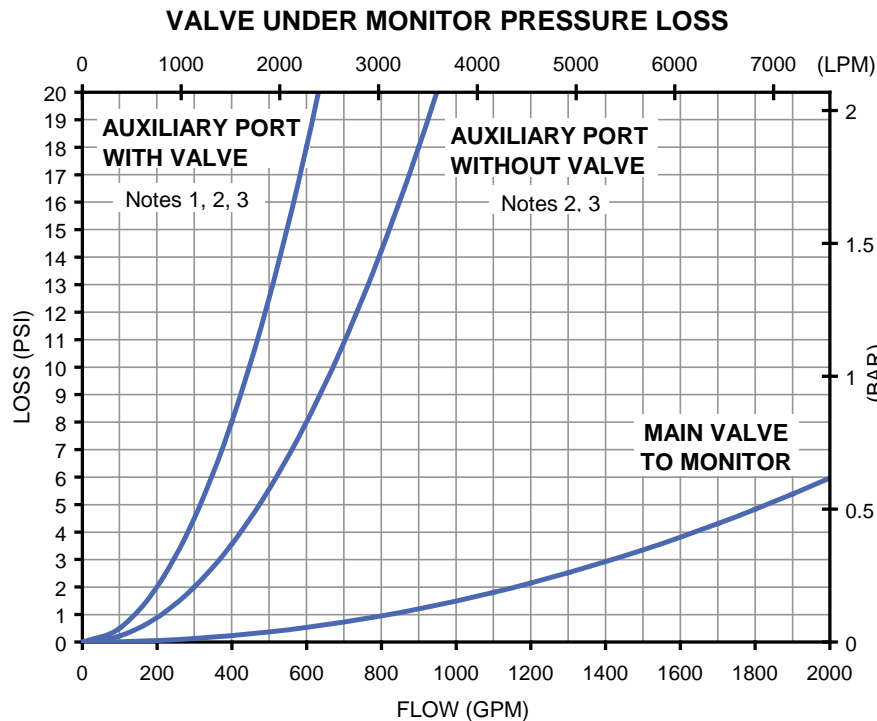
MONITOR PRESSURE LOSS



BIV PRESSURE LOSS



VUM PRESSURE LOSS



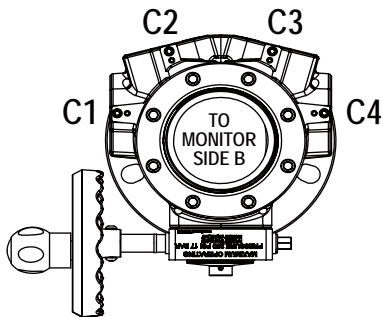
NOTES:

- 1) Curve represents auxiliary port options 2 and 3 (gated elbows). Pressure loss for auxiliary port option 4 (straight hydrant valve) is about 15% less than indicated.
- 2) When valve to monitor is open, pressure loss through auxiliary ports C3 and C4 may be up to 50% greater than indicated. Auxiliary ports C1 and C2 are not affected by this condition.
- 3) Extension pipes (auxiliary port options B through F) do not add significant pressure loss.

VALVE UNDER MONITOR

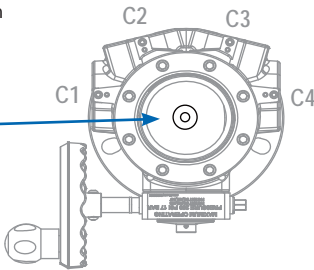
The Valve Under Monitor (VUM) is a lightweight, low friction-loss valve and manifold for installation directly beneath monitors on ladders and platforms. The VUM combines the robust valve mechanism from the TFT Ball Intake Valve with a 4" ANSI 150 inlet and up to four 2.5" outlets. The 2.5" outlets are available with integrated valves, male hose threads or female pipe threads. When paired with a TFT monitor, the monitor flange is omitted for additional weight savings and ease of maintenance. Electric remote controlled (RC) models may be controlled from either a dedicated panel mount control or from TFT RC Monitor Operator Stations.

AUXILIARY PORT DESIGNATION



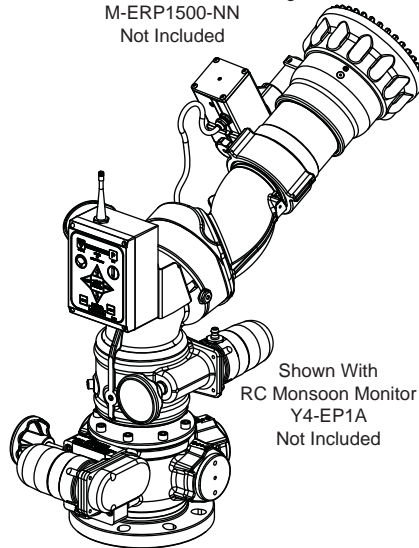
Note: Handwheel is factory configured on left-hand side of valve, but is field reversible for right-hand configuration.

Optional Drain



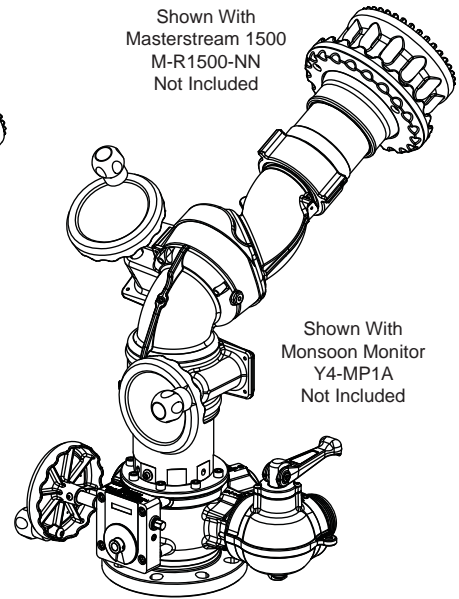
If the VUM is equipped with an automatic drain valve, the monitor will drain following use to the extent allowable by gravity, the monitor's orientation and its geometry. The drain valve, located in the half ball, is designed to close automatically when pressure exceeds 5 psi. When pressure drops below 5 psi, the drain valve will open.

Shown With
Masterstream 1500ER w/Plug
M-ERP1500-NN
Not Included



Electric VUM
AKE11111D

Shown With
Masterstream 1500
M-R1500-NN
Not Included



Manual VUM
AKM111113D

Shown With
RC Monsoon Monitor
Y4-EP1A
Not Included

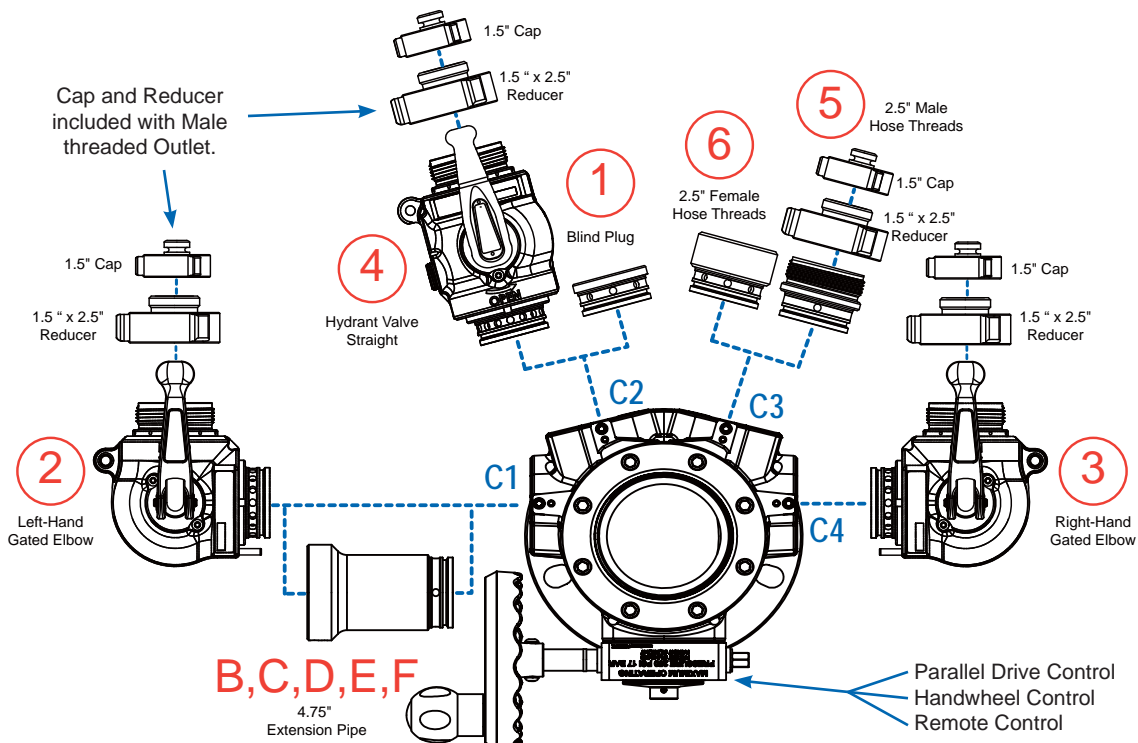
Shown With
Monsoon Monitor
Y4-MP1A
Not Included

When ordering a Valve Under Monitor (VUM), choose one option from each category.

For example: Model AKE11111D is an electric drive, ANSI 150 Inlet, CODE-RPM (TFT Monitor Outlet) with blind plugs on ports Ports C1, C2, C3, C4 and has a Ball Drain installed.

AKM111113D is a Handwheel on side, ANSI 150 Inlet, CODE-RPM (TFT Monitor Outlet), with blind plugs on Ports C1, C2 and C3, a right hand gated elbow on port C4 and has a Ball Drain Installed.

For assistance in ordering, please call 1-800-348-2686 and speak to a nozzle specialist.



AUXILIARY PORT SPECIFICATIONS AND PRICING - For Ports C1, C2, C3 C4			
1) Blind Plug		If Adding a 4.75" Extension Pipe To Aux Port	
2) 2.5" NH Gated Elbow Left-Hand*		B) Pipe + 2.5" NH Gated Elbow Left-Hand*	
3) 2.5" NH Gated Elbow Right-Hand*		C) Pipe + 2.5" NH Gated Elbow Right-Hand*	
4) 2.5" NH Hydrant Valve Straight*		D) Pipe + 2.5" NH Hydrant Valve Straight*	
5) 2.5" NH Male Threads (no valve)		E) Pipe + 2.5" NH Male Threads (no valve)	
6) 2.5" NPT Female Threads (no valve)		F) Pipe + 2.5" NPT Female Threads (no valve)	

MANUAL HANDWHEEL CONTROL (STANDARD GEARBOX)

Dimensional Minimum

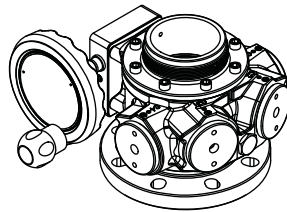
AKM11*****

20.6 lb (9.3 kg)
6.60" (16.8 cm) height
12.65" (32.1 cm) width
12.20" (31.0 cm) depth

Dimensional Maximum

AKM11*****

50.6 lb (23.0 kg)
6.60" (16.8 cm) height
33.20" (84.3 cm) width
24.10" (61.2 cm) depth



- Handwheel Valve Control
- 4" ANSI 150 Flange Inlet
- Code-RPM Male Threaded Outlet

AKM11

AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

Dimensional Minimum

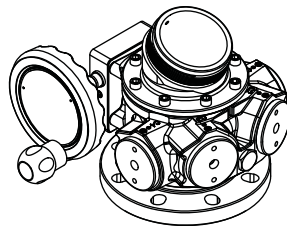
AKM12*****

21.3 lb (9.6 kg)
7.9" (20.1 cm) height
12.65" (32.1 cm) width
12.20" (31.0 cm) depth

Dimensional Maximum

AKM12*****

51.3 lb (23.3 kg)
7.9" (20.1 cm) height
33.2" (84.3 cm) width
24.1" (61.2 cm) depth



- Handwheel Valve Control
- 4" ANSI 150 Flange Inlet
- 22.5° Elbow Code-RPM Male Threaded Outlet

AKM12

AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

Dimensional Minimum

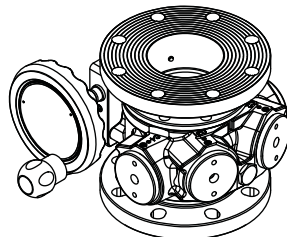
AKM13*****

25.2 lb (11.4 kg)
8.7" (22.1 cm) height
12.65" (84.3 cm) width
12.20" (31.0 cm) depth

Dimensional Maximum

AKM13*****

55.2 lb (25.0 kg)
8.7" (22.1 cm) height
33.2" (84.3 cm) width
24.1" (61.2 cm) depth



- Handwheel Valve Control
- 4" ANSI 150 Flange Inlet
- 4" ANSI 150 Flange Outlet

AKM13

AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

AUXILIARY PORT SPECIFICATIONS AND PRICING - For Ports C1, C2, C3 C4

1) Blind Plug		If Adding a 4.75" Extension Pipe To Aux Port	
2) 2.5" NH Gated Elbow Left-Hand*		B) Pipe + 2.5" NH Gated Elbow Left-Hand*	
3) 2.5" NH Gated Elbow Right-Hand*		C) Pipe + 2.5" NH Gated Elbow Right-Hand*	
4) 2.5" NH Hydrant Valve Straight*		D) Pipe + 2.5" NH Hydrant Valve Straight*	
5) 2.5" NH Male Threads (no valve)		E) Pipe + 2.5" NH Male Threads (no valve)	
6) 2.5" NPT Female Threads (no valve)		F) Pipe + 2.5" NPT Female Threads (no valve)	

CRANK HANDLE CONTROL (PARALLEL DRIVE GEARBOX)

Dimensional Minimum

AKP11*****

20.6 lb (9.34 kg)

6.60" (16.8 cm) height

9.40" (23.9 cm) width

13.80" (35.1 cm) depth

Dimensional Maximum

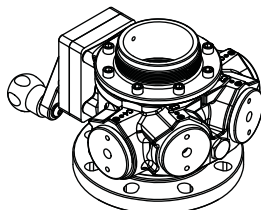
AKP11*****

50.7 lb (23.0 kg)

6.6" (16.8 cm) height

33.2" (84.3 cm) width

25.7" (65.3 cm) depth



- Parallel Drive Valve Control
- 4" ANSI 150 Flange Inlet
- Code-RPM 3" Threaded Outlet

AKP11

AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

Dimensional Minimum

AKP12*****

20.6 lb (9.34 kg)

7.9" (20.1 cm) height

9.4" (23.9 cm) width

13.8" (35.1 cm) depth

Dimensional Maximum

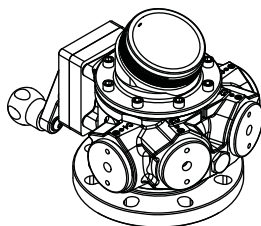
AKP12*****

51.4 lb (23.3 kg)

7.9" (20.1 cm) height

33.2" (84.3 cm) width

25.7" (65.3 cm) depth



- Parallel Drive Valve Control
- 4" ANSI 150 Flange Inlet
- 22.5° Elbow Code-RPM Male Threaded Outlet

AKP12

AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

Dimensional Minimum

AKP13*****

25.2 lb (11.4 kg)

8.7" (22.1 cm) height

9.4" (23.9 cm) width

13.8" (35.1 cm) depth

Dimensional Maximum

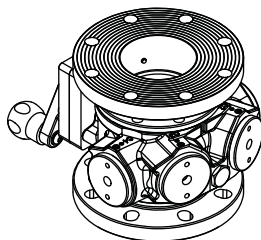
AKP13*****

55.2 lb (25.0 kg)

8.7" (22.1 cm) height

33.2" (84.3 cm) width

25.7" (65.3 cm) depth



- Parallel Drive Valve Control
- 4" ANSI 150 Flange Inlet
- 4" ANSI 150 Flange Outlet

AKP13

AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

AUXILIARY PORT SPECIFICATIONS AND PRICING - For Ports C1, C2, C3 C4			
1) Blind Plug		If Adding a 4.75" Extension Pipe To Aux Port	
2) 2.5" NH Gated Elbow Left-Hand*		B) Pipe + 2.5" NH Gated Elbow Left-Hand*	
3) 2.5" NH Gated Elbow Right-Hand*		C) Pipe + 2.5" NH Gated Elbow Right-Hand*	
4) 2.5" NH Hydrant Valve Straight*		D) Pipe + 2.5" NH Hydrant Valve Straight*	
5) 2.5" NH Male Threads (no valve)		E) Pipe + 2.5" NH Male Threads (no valve)	
6) 2.5" NPT Female Threads (no valve)		F) Pipe + 2.5" NPT Female Threads (no valve)	

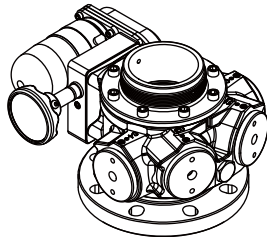
ELECTRIC REMOTE CONTROL (RC)

Dimensional Minimum AKE11****

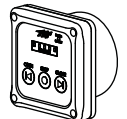
25.0 lb (11.3 kg)
6.6" (16.8 cm) height
10.3" (26.2 cm) width
12.9" (32.8 cm) depth

Dimensional Maximum AKE11****

55.0 lb (24.9 kg)
6.6" (16.8 cm) height
33.2" (84.3 cm) width
24.1" (61.2 cm) depth



- Electric Valve Control
- 4" ANSI 150 Flange Inlet
- Code-RPM Male Threaded Outlet



Panel Mount
Controller

AKE11

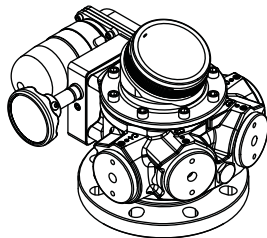
AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

Dimensional Minimum AKE12****

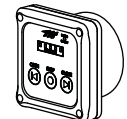
25.7 lb (11.7 kg)
7.9" (20.1 cm) height
10.3" (26.2 cm) width
12.9" (32.8 cm) depth

Dimensional Maximum AKE12****

55.7 lb (25.3 kg)
7.9" (20.1 cm) height
33.2" (84.3 cm) width
24.1" (61.2 cm) depth



- Electric Valve Control
- 4" ANSI 150 Flange Inlet
- 22.5° Elbow 3" Code-RPM Male Threaded Outlet



Panel Mount
Controller

AKE12

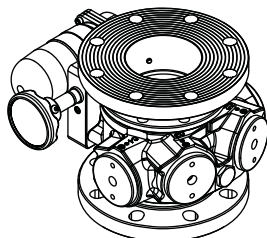
AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

Dimensional Minimum AKE13****

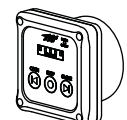
29.5 lb (13.4 kg)
8.7" (22.1 cm) height
10.3" (26.2 cm) width
12.9" (32.8 cm) depth

Dimensional Maximum AKE13****

59.5 lb (27.0 kg)
8.7" (22.1 cm) height
33.2" (84.3 cm) width
24.1" (61.2 cm) depth



- Electric Valve Control
- 4" ANSI 150 Flange Inlet
- 4" ANSI 150 Flange Outlet



Panel Mount
Controller

AKE13

AUXILIARY PORTS				BALL DRAIN	TOTAL
C1	C2	C3	C4		
				D=Drain Z=No Drain	

BALL INTAKE VALVE

AB Series - BIV - TFT's Ball Intake Valve is designed for use with 3.5, 4, 4.5, 5 or 6 inch (89, 100, 115, 125 or 150mm) hose. The 30° intake elbow swivels 360° and has multiple positive detents. Make hose connections from any direction with minimal kinks and coupling stress. Designed for pressure or vacuum service on a pumper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. All the components on the wet side of the valve are made of stainless steel for additional corrosion protection. The hand wheel needs 7-1/2 turns to open, meeting NFPA slow close requirements. There is a unique position indicator that shows the operator if the valve is open, closed or somewhere in between. The hand wheel is installed on the right side of the valve, but can be switched to the left side if desired. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Hose couplings and truck connections are attached to the valve using polymer bearing rings which provide electrical isolation to help prevent galvanic corrosion. Includes TFT's new adjustable pressure relief valve with a discharge that can be directed one of four ways and meets NFPA 1901 (2009 edition). Contact TFT customer service for configurations not shown. Cap lanyard anchor point is standard.

Dimensional Maximum AB7NT-NX

35.0 lbs (15.8 kg)
15.60" (39.0cm) Height
13" (26 cm) Width
14" (35.8 cm) Depth

AB

	-
--	---

(Choose Side A/Side B suffix from table)

Example: A 4.0" Rocker Lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A would be a AB7NP-NX

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.

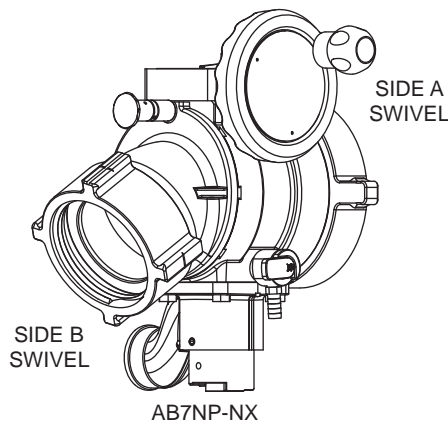


A1621-KIT

Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.

Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.

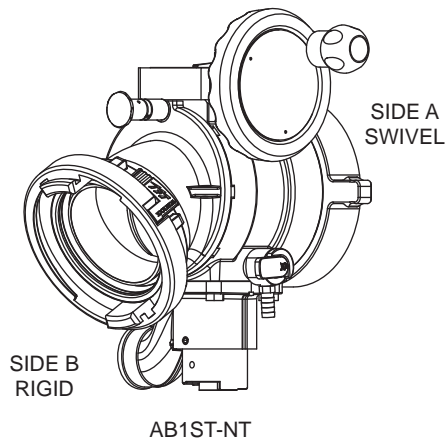
	4.00" (100.0mm) Pump Inlet Adapter	4.50" (110.0mm) Pump Inlet Adapter
6" Threaded Female	AA9NX-NP	AA9NX-NR



AB7		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	3.5" Threaded Swivel	AB7NN-NT	AB7NN-NX
	4.0" Threaded Swivel	AB7NP-NT	AB7NP-NX
	4.5" Threaded Swivel	AB7NR-NT	AB7NR-NX
	5.0" Threaded Swivel	AB7NT-NT	AB7NT-NX

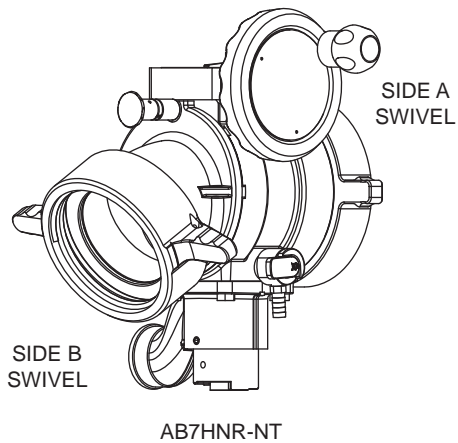
If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AB with AC.
AC denotes no PRV, deduct \$250 from the appropriate AB published list price.

Blind Caps and Pressure Relief Valve information is located on page 147
Suction Screen information is located on page 152, under LDH service kits.

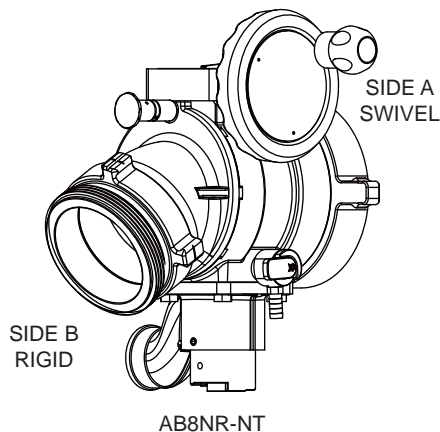


AB1		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AB1SP-NT	AB1SP-NX
	5.0" Rigid Storz	AB1ST-NT	AB1ST-NX
	6.0" Rigid Storz	AB1SX-NT	AB1SX-NX

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.



AB7H		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel Handle	AB7HNP-NT	AB7HNP-NX
	4.5" Threaded Swivel Handle	AB7HNR-NT	AB7HNR-NX
	5.0" Threaded Swivel Handle	AB7HNT-NT	AB7HNT-NX
	6.0" Threaded Swivel Handle	AB7HNX-NT	AB7HNX-NX



AB8		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Male Rigid NH	4.0" Male Thread Rigid	AB8NP-NT	AB8NP-NX
	4.5" Male Thread Rigid	AB8NR-NT	AB8NR-NX
	5.0" Male Thread Rigid	AB8NT-NT	AB8NT-NX
	6.0" Male Thread Rigid	AB8NX-NT	AB8NX-NX

If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AB with AC.

AC denotes no PRV, deduct \$250 from the appropriate AB published list price.

Blind Caps and Pressure Relief Valve information is located on page 147

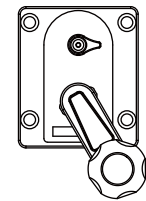
Suction Screen information is located on page 152, under LDH service kits.

BALL INTAKE VALVE WITH PARALLEL SHAFT DRIVE

AB Series - BIV - TFT's Ball Intake Valve is designed for use with 3.5, 4, 4.5, 5 or 6 inch (89, 100, 115, 125 or 150mm) hose. The 30° intake elbow swivels 360° and has multiple positive detents. Make hose connections from any direction with minimal kinks and coupling stress. Designed for pressure or vacuum service on a pumper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. All the components on the wet side of the valve are made of stainless steel for additional corrosion protection. The handcrank needs 7-1/2 turns to open, meeting NFPA slow close requirements. There is a unique position indicator that shows the operator if the valve is open, closed or somewhere in between. The handcrank is installed with a 2-5/8" swing but may be switched to 1-5/8" if desired. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Hose couplings and truck connections are attached to the valve using polymer bearing rings which provide electrical isolation to help prevent galvanic corrosion. Includes TFT's new adjustable pressure relief valve with a discharge that can be directed one of four ways and meets NFPA 1901 (2009 edition). Contact TFT customer service for configurations not shown. Cap lanyard anchor point is standard.

Dimensional Maximum
AB7NT-NX-PS
35.0 lbs (15.8 kg)
16.00" (41.5 cm) Height
11.50" (29.2 cm)Width
14" (35.8 cm) Depth

AB -PS
(Choose Side A/Side B suffix from table)
Example: A 4.0" Rocker lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A with a parallel shaft drive would be a AB7NP-NX-PS



Top View of Control

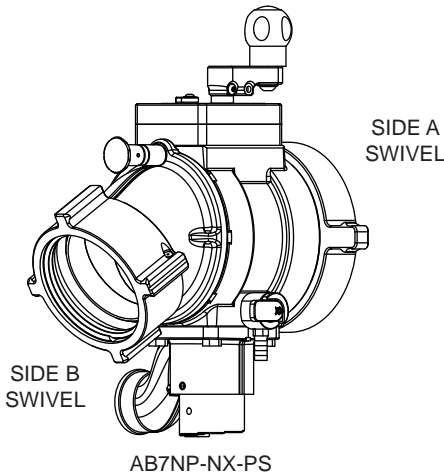
For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.



A1621-KIT
Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.

Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.

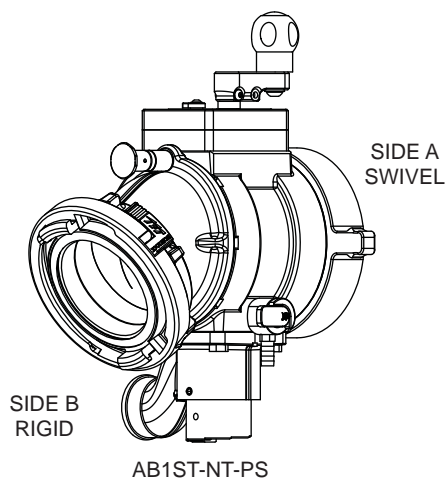
	4.00" (100.0mm) Pump Inlet Adapter	4.50" (110.0mm) Pump Inlet Adapter
6" Threaded Female	AA9NX-NP	AA9NX-NR



AB7		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	3.5" Threaded Swivel	AB7NN-NT-PS	AB7NN-NX-PS
	4.0" Threaded Swivel	AB7NP-NT-PS	AB7NP-NX-PS
	4.5" Threaded Swivel	AB7NR-NT-PS	AB7NR-NX-PS
	5.0" Threaded Swivel	AB7NT-NT-PS	AB7NT-NX-PS

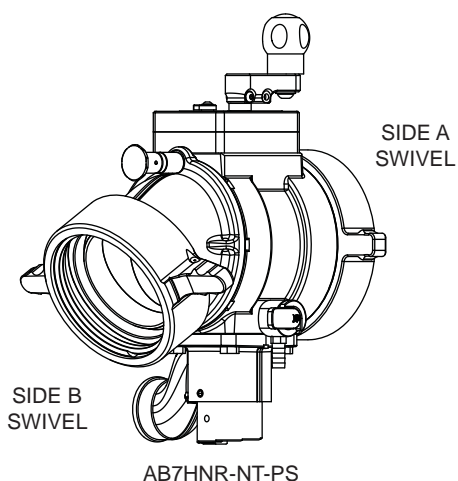
If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AB with AC.
AC denotes no PRV, deduct \$250 from the appropriate AB published list price.
Blind Caps and Pressure Relief Valve information is located on page 147
Suction Screen information is located on page 152, under LDH service kits.

BALL INTAKE VALVE WITH PARALLEL SHAFT DRIVE

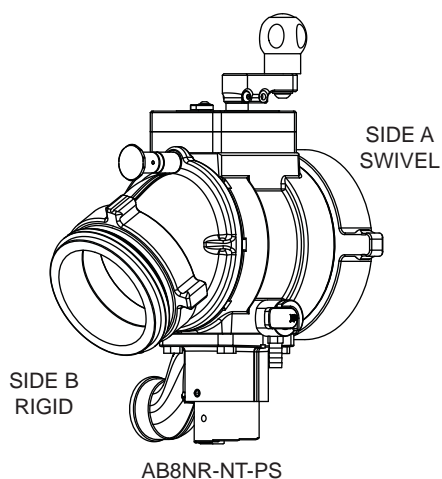


AB1		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AB1SP-NT-PS	AB1SP-NX-PS
	5.0" Rigid Storz	AB1ST-NT-PS	AB1ST-NX-PS
	6.0" Rigid Storz	AB1SX-NT-PS	AB1SX-NX-PS

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.



AB7H		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel Handle	AB7HNP-NT-PS	AB7HNP-NX-PS
	4.5" Threaded Swivel Handle	AB7HNR-NT-PS	AB7HNR-NX-PS
	5.0" Threaded Swivel Handle	AB7HNT-NT-PS	AB7HNT-NX-PS
	6.0" Threaded Swivel Handle	AB7HNX-NT-PS	AB7HNX-NX-PS



AB8		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Male Rigid NH	4.0" Male Thread Rigid	AB8NP-NT-PS	AB8NP-NX-PS
	4.5" Male Thread Rigid	AB8NR-NT-PS	AB8NR-NX-PS
	5.0" Male Thread Rigid	AB8NT-NT-PS	AB8NT-NX-PS
	6.0" Male Thread Rigid	AB8NX-NT-PS	AB8NX-NX-PS

If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AB with AC.
AC denotes no PRV, deduct \$250 from the appropriate AB published list price.

Blind Caps and Pressure Relief Valve information is located on page 147

Suction Screen information is located on page 152, under LDH service kits.

JUMBO BALL INTAKE VALVE

AX Series - TFT's Jumbo Ball Intake valve has a huge 5-¼ inch diameter waterway giving low friction loss to maximize flow. Friction loss is 3 psi at 2000 gpm. Designed for use with 3.5, 4, 4.5, 5 or 6 inch (89, 100, 115, 125, or 150 mm) hose. The 30° intake elbow swivels 360° and has multiple positive detents. Make hose connections in any direction with minimal kinks and coupling stress. Designed for pressure or vacuum service on a pumper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. All the components on the wet side of the valve are made of stainless steel for additional corrosion protection. The handwheel needs 7-½ turns to close, meeting NFPA slow close requirements. There is a unique position indicator that shows the operator if the valve is open, closed or somewhere in between. The handwheel is installed on the right side of the valve, but can be switched to the left side if desired. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Hose coupling and truck connections are attached to the valve using polymer bearing rings which provide electrical isolation to help prevent galvanic corrosion. Includes TFT's adjustable pressure relief valve with a discharge that can be directed one of four ways and meets NFPA 1901 (2009 Edition). Contact TFT customer service for configurations not shown. Cap lanyard anchor point is standard.

Dimensional Maximum

AX7HNX-NX

37.0 lbs (16.8kg)

17.75" (45.0cm) Height

14.00" (36.0cm) Width

15.50" (39.0cm) Depth

AX



(Choose Side A/Side B suffix from table)

Example: A 4.0" Rocker lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A would be a **AX7NP-NX**

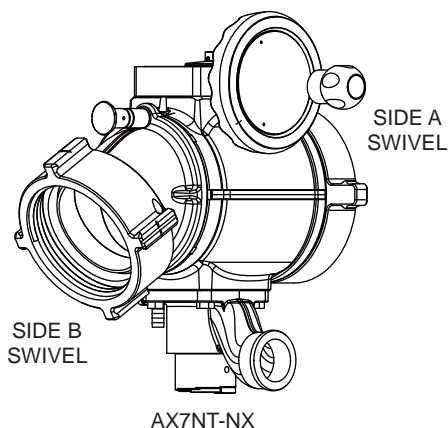
Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.



A1621-KIT

Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.



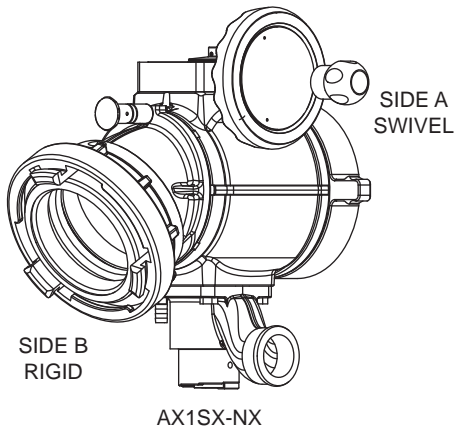
AX7		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	3.5" Threaded Swivel	AX7NN-NX
	4.0" Threaded Swivel	AX7NP-NX
	4.5" Threaded Swivel	AX7NR-NX
	5.0" Threaded Swivel	AX7NT-NX

If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AX with AZ.

AZ denotes no PRV, deduct \$250 from the appropriate AX published list price.

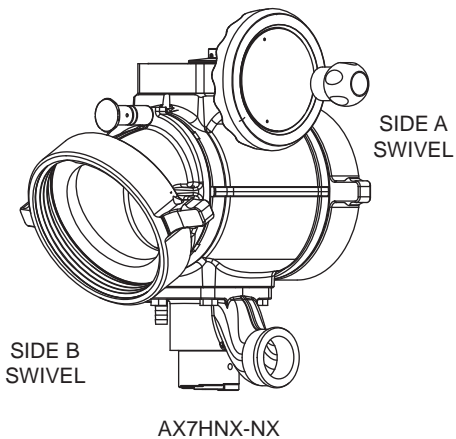
Blind Caps and Pressure Relief Valve information is located on page 147

Suction Screen information is located on page 152, under LDH service kits.

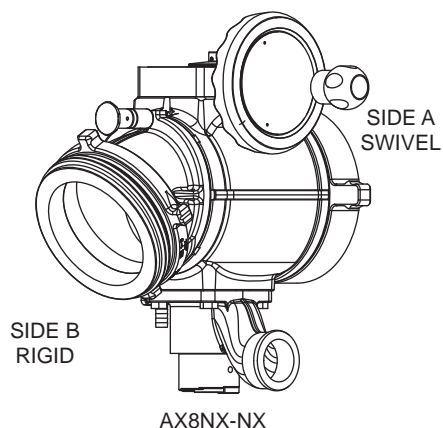


AX1		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AX1SP-NX
	5.0" Rigid Storz	AX1ST-NX
	6.0" Rigid Storz	AX1SX-NX

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.



AX7H		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel Handle	AX7HNP-NX
	4.5" Threaded Swivel Handle	AX7HNR-NX
	5.0" Threaded Swivel Handle	AX7HNT-NX
	6.0" Threaded Swivel Handle	AX7HNX-NX



AX8		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Male Rigid NH	4.0" Male Thread Rigid	AX8NP-NX
	4.5" Male Thread Rigid	AX8NR-NX
	5.0" Male Thread Rigid	AX8NT-NX
	6.0" Male Thread Rigid	AX8NX-NX

If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AX with AZ.
AZ denotes no PRV, deduct \$250 from the appropriate AX published list price.
 Blind Caps and Pressure Relief Valve information is located on page 147
 Suction Screen information is located on page 152, under LDH service kits.

JUMBO BALL INTAKE VALVE WITH PARALLEL SHAFT DRIVE

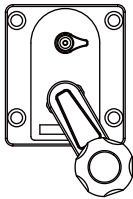
AX Series - TFT's Jumbo Ball Intake valve has a huge 5-¼ inch diameter waterway giving low friction loss to maximize flow. Friction loss is 3 psi at 2000 gpm. Designed for use with 3.5, 4, 4.5, 5 or 6 inch (89, 100, 115, 125, or 150 mm) hose. The 30° intake elbow swivels 360° and has multiple positive detents. Make hose connections in any direction with minimal kinks and coupling stress. Designed for pressure or vacuum service on a pumper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. All the components on the wet side of the valve are made of stainless steel for additional corrosion protection. The handcrank needs 7-½ turns to close, meeting NFPA slow close requirements. There is a unique position indicator that shows the operator if the valve is open, closed or somewhere in between. The handcrank is installed with a 2-5/8" swing but may be switched to 1-5/8" if desired. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Hose coupling and truck connections are attached to the valve using polymer bearing rings which provide electrical isolation to help prevent galvanic corrosion. Includes TFT's adjustable pressure relief valve with a discharge that can be directed one of four ways and meets NFPA 1901 (2009 Edition). Contact TFT customer service for configurations not shown. Cap lanyard anchor point is standard.

Dimensional Maximum
AX7HNX-NX-PS
37.0 lbs (16.8kg)
18.75" (47.5cm) Height
11.50" (29.2cm) Width
15.50" (39.0cm) Depth

AX [] -PS

(Choose Side A/Side B suffix from table)
Example: A 4.0" Rocker lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A would be a AX7NP-NX-PS

Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.

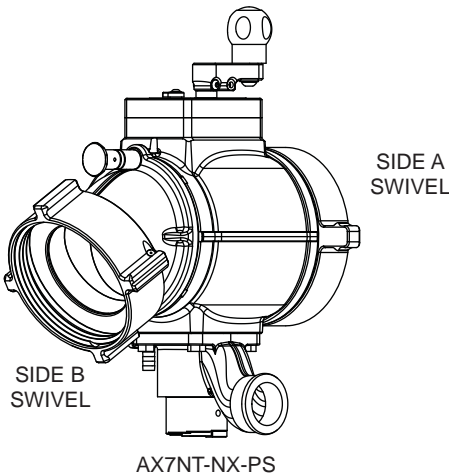


Top View of Control

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.



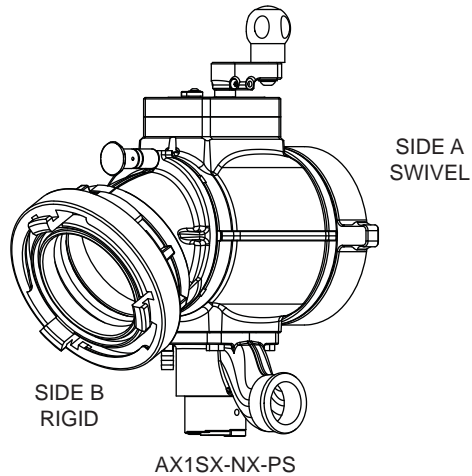
A1621-KIT
Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.



AX7		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	3.5" Threaded Swivel	AX7NN-NX-PS
	4.0" Threaded Swivel	AX7NP-NX-PS
	4.5" Threaded Swivel	AX7NR-NX-PS
	5.0" Threaded Swivel	AX7NT-NX-PS

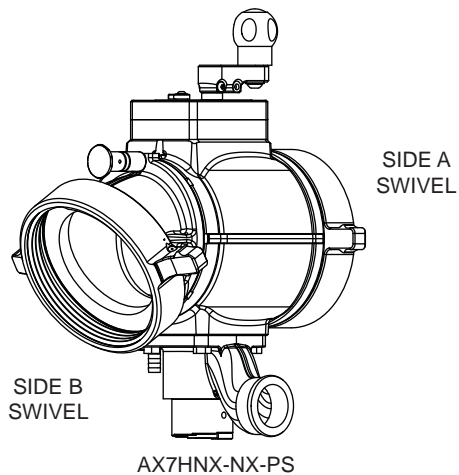
If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AX with AZ.
AZ denotes no PRV, deduct \$250 from the appropriate AX published list price.
Blind Caps and Pressure Relief Valve information is located on page 147
Suction Screen information is located on page 152, under LDH service kits.

JUMBO BALL INTAKE VALVE WITH PARALLEL SHAFT DRIVE

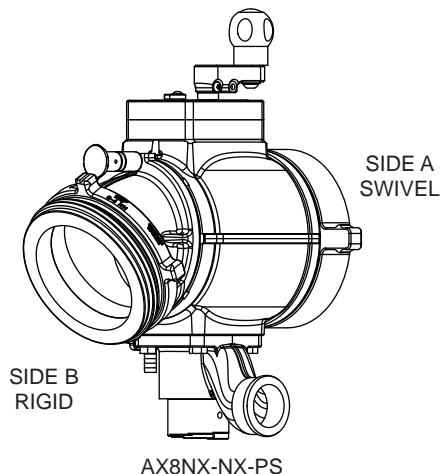


AX1		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AX1SP-NX-PS
	5.0" Rigid Storz	AX1ST-NX-PS
	6.0" Rigid Storz	AX1SX-NX-PS

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.



AX7H		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel Handle	AX7HNP-NX-PS
	4.5" Threaded Swivel Handle	AX7HNR-NX-PS
	5.0" Threaded Swivel Handle	AX7HNT-NX-PS
	6.0" Threaded Swivel Handle	AX7HNX-NX-PS



AX8		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Male Rigid NH	4.0" Male Thread Rigid	AX8NP-NX-PS
	4.5" Male Thread Rigid	AX8NR-NX-PS
	5.0" Male Thread Rigid	AX8NT-NX-PS
	6.0" Male Thread Rigid	AX8NX-NX-PS

If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AX with AZ.
AZ denotes no PRV, deduct \$250 from the appropriate AX published list price.

Blind Caps and Pressure Relief Valve information is located on page 147
 Suction Screen information is located on page 152, under LDH service kits.

JUMBO SHORT BALL INTAKE VALVE

AP Series - TFT's Jumbo Small Ball Intake Valve has a huge 5- $\frac{1}{4}$ inch diameter waterway giving low friction loss to maximize flow. Friction loss is 3 psi at 2000 gpm. Designed for use with 3.5, 4, 4.5, 5 or 6 inch (89, 100, 115, 125, or 150 mm) hose. Designed for pressure or vacuum service on a pumper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. All the components on the wet side of the valve are made of stainless steel for additional corrosion protection. The handwheel needs 7- $\frac{1}{2}$ turns to close, meeting NFPA slow close requirements. There is a unique position indicator that shows the operator if the valve is open, closed or somewhere in between. The handwheel is installed on the right side of the valve, but can be switched to the left side if desired. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Hose coupling and truck connections are attached to the valve using polymer bearing rings which provide electrical isolation to help prevent galvanic corrosion. Includes TFT's adjustable pressure relief valve with a discharge that can be directed one of four ways and meets NFPA 1901 (2009 Edition). Contact TFT customer service for configurations not shown. Cap lanyard anchor point is standard.

Dimensional Maximum AP1SX-NX

34.0 lbs (15.4kg)

17.75" (45.0cm) Height

14.00" (36.0cm) Width

12.20" (31.0cm) Depth

AP - NX

(Choose Side A/Side B suffix from table)

Example: A 4.0" Rocker Lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A would be a **AP7NP-NX**

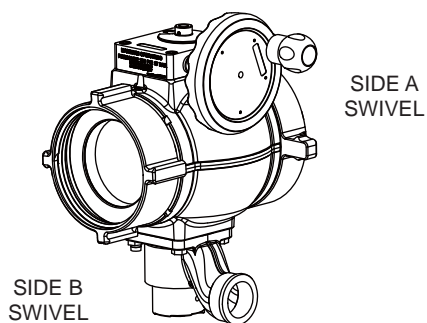
Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.

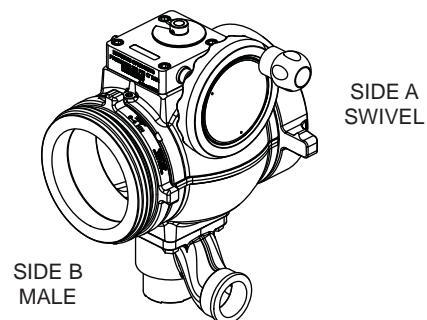


A1621-KIT

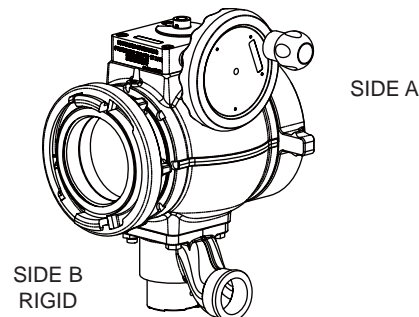
Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.



AP7		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	4.0" Threaded Swivel	AP7NP-NX
	4.5" Threaded Swivel	AP7NR-NX
	5.0" Threaded Swivel	AP7NT-NX



AP8		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Male NH	4.0" Threaded	AP8NP-NX
	4.5" Threaded	AP8NR-NX
	5.0" Threaded	AP8NT-NX
	6.0" Threaded	AP8NX-NX



AP1		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AP1SP-NX
	5.0" Rigid Storz	AP1ST-NX
	6.0" Rigid Storz	AP1SX-NX

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.

JUMBO SHORT BALL INTAKE VALVE

AQ Series - TFT's Jumbo Short Ball Intake Valve has a huge 5-¼ inch diameter waterway giving low friction loss to maximize flow. Friction loss is 3 psi at 2000 gpm. Designed for use with 3.5, 4, 4.5, 5 or 6 inch (89, 100, 115, 125, or 150 mm) hose. Designed for pressure or vacuum service on a pumper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. All the components on the wet side of the valve are made of stainless steel for additional corrosion protection. The handwheel needs 7-½ turns to close, meeting NFPA slow close requirements. There is a unique position indicator that shows the operator if the valve is open, closed or somewhere in between. The handwheel is installed on the right side of the valve, but can be switched to the left side if desired. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Hose coupling and truck connections are attached to the valve using polymer bearing rings which provide electrical isolation to help prevent galvanic corrosion. Contact TFT customer service for configurations not shown. Cap lanyard anchor point is standard.

Dimensional Maximum
AQ1SX-NX
31.0 lbs (14.0kg)
12.70" (32.3 cm) Height
14.00" (36.0 cm) Width
12.20" (31.0 cm) Depth

AQ - NX

(Choose Side A/Side B suffix from table)

Example: A 4.0" Rocker lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A would be a **AQ7NP-NX**

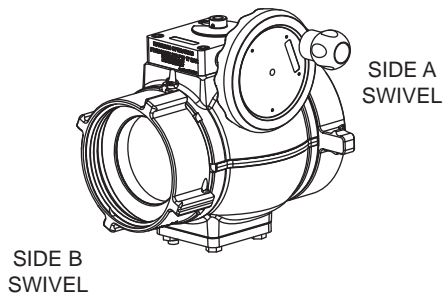
Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.

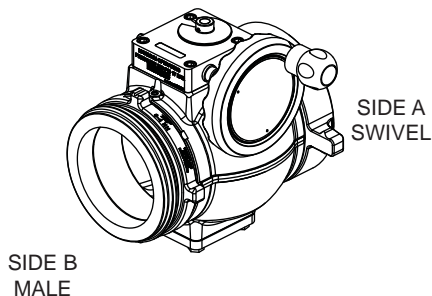


A1621-KIT

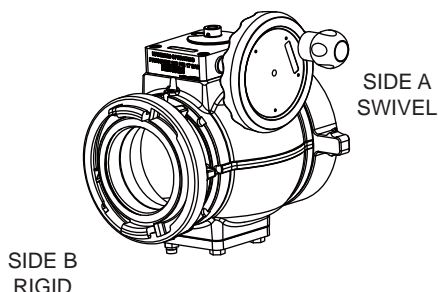
Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.



AQ7		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	4.0" Threaded Swivel	AQ7NP-NX
	4.5" Threaded Swivel	AQ7NR-NX
	5.0" Threaded Swivel	AQ7NT-NX



AQ8		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Male NH	4.0" Threaded	AQ8NP-NX
	4.5" Threaded	AQ8NR-NX
	5.0" Threaded	AQ8NT-NX
	6.0" Threaded	AQ8NX-NX



AQ1		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AQ1SP-NX
	5.0" Rigid Storz	AQ1ST-NX
	6.0" Rigid Storz	AQ1SX-NX

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.

JUMBO SHORT BALL INTAKE VALVE WITH PARALLEL DRIVE SHAFT

AP Series - TFT's Jumbo Small Ball Intake Valve has a huge 5-¼ inch diameter waterway giving low friction loss to maximize flow. Friction loss is 3 psi at 2000 gpm. Designed for use with 3.5, 4, 4.5, 5 or 6 inch (89, 100, 115, 125, or 150 mm) hose. Designed for pressure or vacuum service on a pumper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. All the components on the wet side of the valve are made of stainless steel for additional corrosion protection. The handcrank needs 7-½ turns to close, meeting NFPA slow close requirements. There is a unique position indicator that shows the operator if the valve is open, closed or somewhere in between. The handcrank is installed with a 2-5/8" swing but may be switched to 1-5/8" if desired. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Hose coupling and truck connections are attached to the valve using polymer bearing rings which provide electrical isolation to help prevent galvanic corrosion. Includes TFT's adjustable pressure relief valve with a discharge that can be directed one of four ways and meets NFPA 1901 (2009 Edition). Contact TFT customer service for configurations not shown. Cap lanyard anchor point is standard.

Dimensional Maximum
AP1SX-NX
31.0 lbs (14.0kg)
12.70" (32.3 cm) Height
14.00" (36.0 cm) Width
12.20" (31.0 cm) Depth

AP **-NX-PS**

(Choose Side A/Side B suffix from table)

Example: A 4.0" Rocker lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A with a parallel shaft drive would be a **AQ7NP-NX-PS**

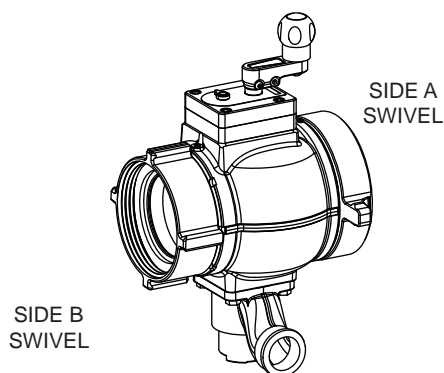
Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.

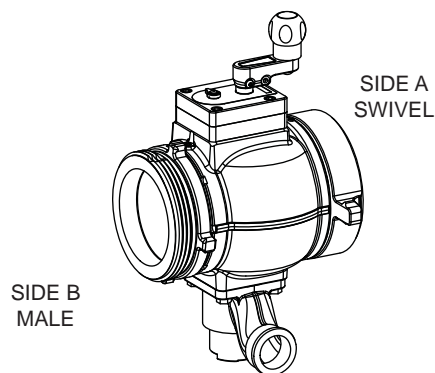


A1621-KIT

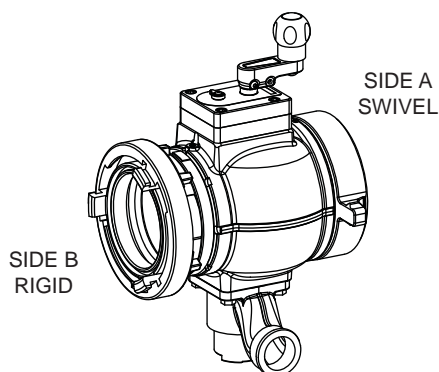
Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.



AP7		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	4.0" Threaded Swivel	AP7NP-NX-PS
	4.5" Threaded Swivel	AP7NR-NX-PS
	5.0" Threaded Swivel	AP7NT-NX-PS



AP8		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Male NH	4.0" Threaded	AP8NP-NX-PS
	4.5" Threaded	AP8NR-NX-PS
	5.0" Threaded	AP8NT-NX-PS
	6.0" Threaded	AP8NX-NX-PS



AP1		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AP1SP-NX-PS
	5.0" Rigid Storz	AP1ST-NX-PS
	6.0" Rigid Storz	AP1SX-NX-PS

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.

JUMBO SHORT BALL INTAKE VALVE WITH PARALLEL DRIVE SHAFT

AQ Series - TFT's Jumbo Short Ball Intake Valve has a huge 5-1/4 inch diameter waterway giving low friction loss to maximize flow. Friction loss is 3 psi at 2000 gpm. Designed for use with 3.5, 4, 4.5, 5 or 6 inch (89, 100, 115, 125, or 150 mm) hose. Designed for pressure or vacuum service on a pumper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. All the components on the wet side of the valve are made of stainless steel for additional corrosion protection. The handcrank needs 7-1/2 turns to close, meeting NFPA slow close requirements. There is a unique position indicator that shows the operator if the valve is open, closed or somewhere in between. The handcrank is installed with a 2-5/8" swing but may be switched to 1-5/8" if desired. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Hose coupling and truck connections are attached to the valve using polymer bearing rings which provide electrical isolation to help prevent galvanic corrosion. Contact TFT customer service for configurations not shown. Cap lanyard anchor point is standard.

Dimensional Maximum
AQ1SX-NX
34.0 lbs (15.4kg)
17.75" (45.0cm) Height
14.00" (36.0cm) Width
12.20" (31.0cm) Depth

AQ **-NX-PS**

(Choose Side A/Side B suffix from table)

Example: A 4.0" Rocker lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A with a parallel shaft drive would be a AQ7NP-NX-PS

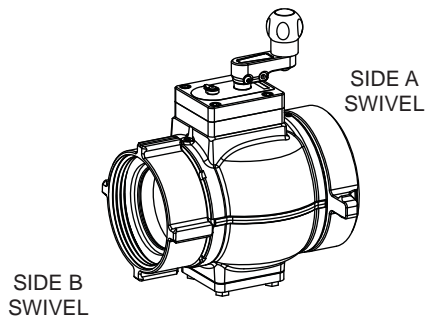
Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.

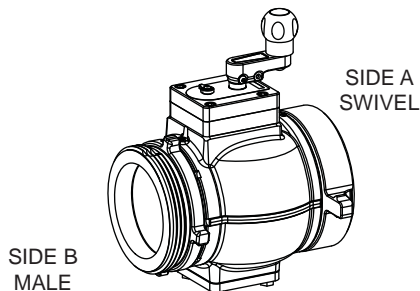


A1621-KIT

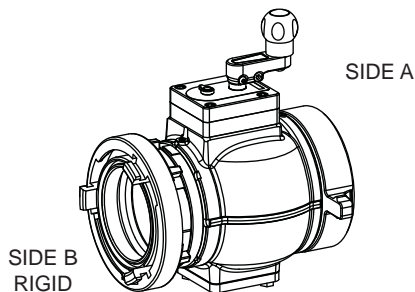
Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.



AQ7		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	4.0" Threaded Swivel	AQ7NP-NX-PS
	4.5" Threaded Swivel	AQ7NR-NX-PS
	5.0" Threaded Swivel	AQ7NT-NX-PS



AQ8		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Male NH	4.0" Threaded	AQ8NP-NX-PS
	4.5" Threaded	AQ8NR-NX-PS
	5.0" Threaded	AQ8NT-NX-PS
	6.0" Threaded	AQ8NX-NX-PS



AQ1		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AQ1SP-NX-PS
	5.0" Rigid Storz	AQ1ST-NX-PS
	6.0" Rigid Storz	AQ1SX-NX-PS

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.

BALL INTAKE VALVE RC

The Ball Intake Valve RC is an electric remote controlled valve with all the benefits of TFT's Ball Intake Valve with the addition of powered operation. A large handwheel is installed on the drive shaft for immediate manual override. Designed for 12 or 24 VDC operation, selection is automatic. The motor control circuit uses an encoder and current limiting to protect the drive train at the ends of travel. The panel mounted control box allows for remote operation and contains an LED display showing valve position. Unit comes with a panel mounted quick connect plug for the connection between the valve and control box. Unit is pre wired and only needs the two power wires connected to complete the electrical installation. Electric drive and control box are waterproof. Mechanical installation consists of attaching the valve to the pump, mounting the control box and quick connect electric plug. Six seconds from open to close meets NFPA 1901 slow close requirement. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Contact TFT customer service for configurations not shown.

Dimensional Maximum
AB7HNX-NX-RC
40.0 lbs (18.0kg)
16.50" (42.0cm) Height
13.00" (26.0cm) Width
14.00" (35.8cm) Depth

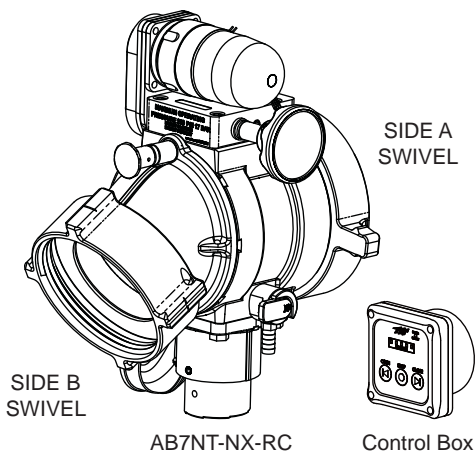
AB [] - [] - RC

(Choose Side A/Side B suffix from table)
Example: A 4.0" Rocker lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A would be a **AX7NP-NX**
Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.
For Multipoint control capabilities or for installations further than 10 feet from control head, consult Customer Service (1-800-348-2686) for model and price.

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.

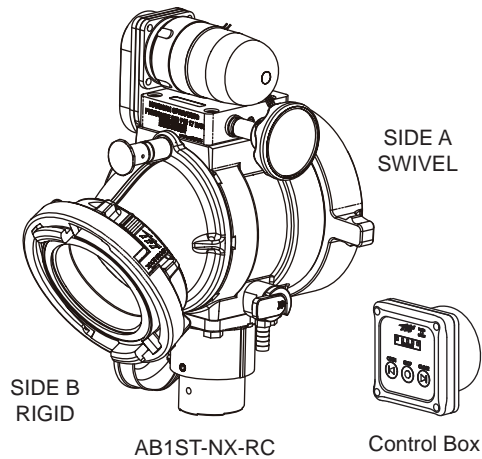


A1621-KIT
Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.



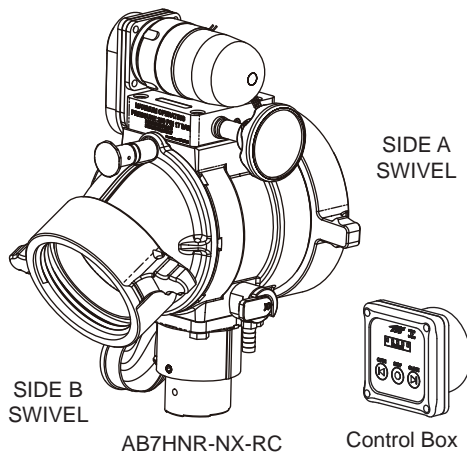
AB7		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	3.5" Threaded Swivel	AB7NN-NT-RC	AB7NN-NX-RC
	4.0" Threaded Swivel	AB7NP-NT-RC	AB7NP-NX-RC
	4.5" Threaded Swivel	AB7NR-NT-RC	AB7NR-NX-RC
	5.0" Threaded Swivel	AB7NT-NT-RC	AB7NT-NX-RC

If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AB with AC.
AC denotes no PRV, deduct \$250 from the appropriate AB published list price.
Blind Caps and Pressure Relief Valve information is located on page 147
Suction Screen information is located on page 152, under LDH service kits.

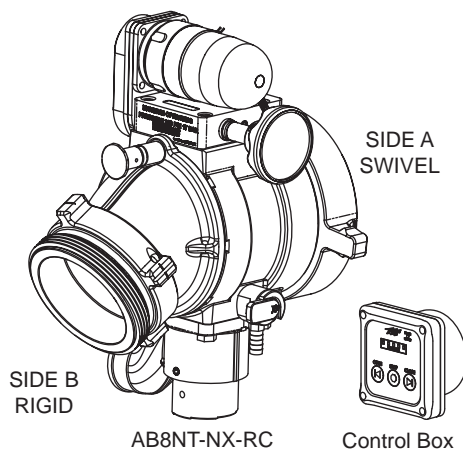


AB1		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AB1SP-NT-RC	AB1SP-NX-RC
	5.0" Rigid Storz	AB1ST-NT-RC	AB1ST-NX-RC
	6.0" Rigid Storz	AB1SX-NT-RC	AB1SX-NX-RC

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.



AB7H		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel Handle	AB7HNP-NT-RC	AB7HNP-NX-RC
	4.5" Threaded Swivel Handle	AB7HNR-NT-RC	AB7HNR-NX-RC
	5.0" Threaded Swivel Handle	AB7HNT-NT-RC	AB7HNT-NX-RC
	6.0" Threaded Swivel Handle	AB7HNX-NT-RC	AB7HNX-NX-RC



AB8		SIDE A - Female Swivel NH	
		5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Male Rigid NH	4.0" Male Thread Rigid	AB8NP-NT-RC	AB8NP-NX-RC
	4.5" Male Thread Rigid	AB8NR-NT-RC	AB8NR-NX-RC
	5.0" Male Thread Rigid	AB8NT-NT-RC	AB8NT-NX-RC
	6.0" Male Thread Rigid	AB8NX-NT-RC	AB8NX-NX-RC

If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AB with AC.
AC denotes no PRV, deduct \$250 from the appropriate AB published list price.

Blind Caps and Pressure Relief Valve information is located on page 147
 Suction Screen information is located on page 152, under LDH service kits.

JUMBO BALL INTAKE VALVE RC

The Jumbo Ball Intake Valve RC is an electric remote controlled valve with all the benefits of TFT's Jumbo Ball Intake Valve with the addition of powered operation. A large handwheel is installed on the drive shaft for immediate manual override. Designed for 12 or 24 VDC operation, selection is automatic. The motor control circuit uses an encoder and current limiting to protect the drive train at the ends of travel. The panel mounted control box allows for remote operation and contains an LED display showing valve position. Unit comes with a panel mounted quick connect plug for the connection between the valve and control box. Unit is pre wired and only needs the two power wires connected to complete the electrical installation. Electric drive and control box are waterproof. Mechanical installation consists of attaching the valve to the pump, mounting the control box and quick connect electric plug. Six seconds from open to close, meets NFPA 1901 slow close requirement. The unit comes equipped with a rugged 3/4-inch (19mm) drain valve to quickly drain water from the valve housing. A port for an optional air bleed valve is incorporated into the design for user friendly configurability. Contact TFT customer service for configurations not shown.

Dimensional Maximum
AX7HNX-NX-RC
40.0 lbs (18.0kg)
17.60" (45.0cm) Height
13.00" (26.0cm) Width
15.50" (39.0cm) Depth

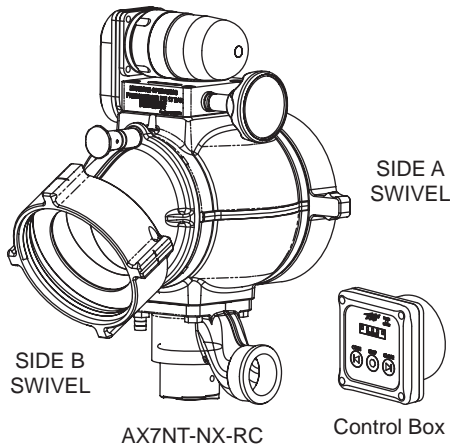
AX [] - RC

(Choose Side A/Side B suffix from table)
Example: A 5.0" Rocker lug Female Swivel on Side B to a 6.0" NH Female Swivel on Side A would be a AX7NT-NX-RC
Contact Customer Service (1-800-348-2686) for necessary adapters for 4 or 4 1/2 inch (100 or 115 mm) pump inlets.
For Multipoint control capabilities or for installations further than 10 feet from control head, consult Customer Service (1-800-348-2686) for model and price.

For additional air bleed during operation, simply install a bleed valve with 3/4" NPT inlet. A bleed valve can be purchased if desired.

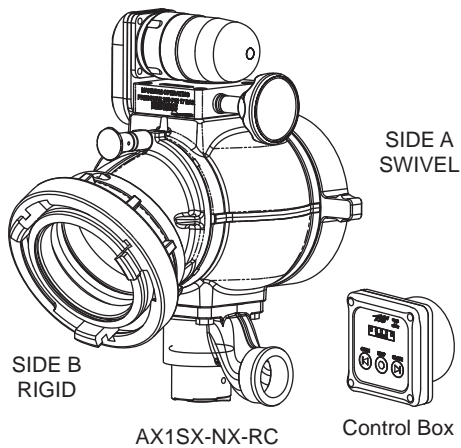


A1621-KIT
Vent Drain Kit is available for the BIV and Jumbo BIV. See page 152.



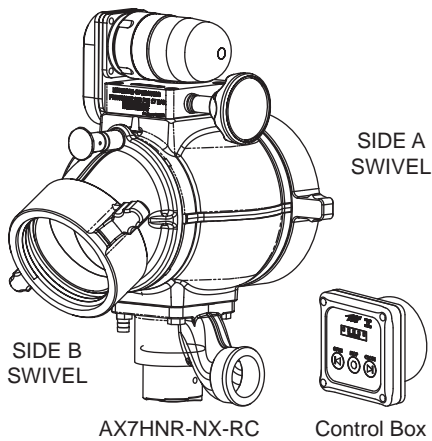
AX7		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rocker Lug Female Swivel NH	3.5" Threaded Swivel	AX7NN-NX-RC
	4.0" Threaded Swivel	AX7NP-NX-RC
	4.5" Threaded Swivel	AX7NR-NX-RC
	5.0" Threaded Swivel	AX7NT-NX-RC

If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AX with AZ.
AZ denotes no PRV, deduct \$250 from the appropriate AX published list price.
Blind Caps and Pressure Relief Valve information is located on page 147
Suction Screen information is located on page 152, under LDH service kits.

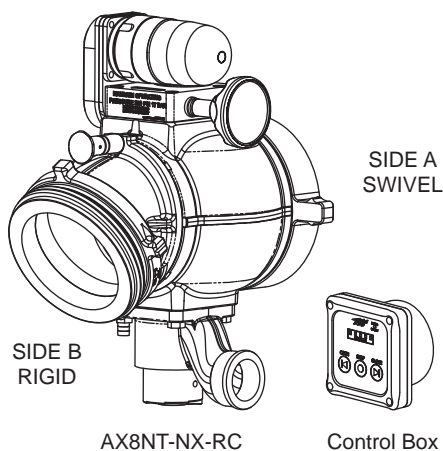


AX1		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Rigid Storz	4.0" Rigid Storz	AX1SP-NX-RC
	5.0" Rigid Storz	AX1ST-NX-RC
	6.0" Rigid Storz	AX1SX-NX-RC

Storz couplings are shipped rigid with a pressure gasket installed. A suction gasket is available upon request for drafting operations. Couplings are customer changeable to swiveling.



AX7H		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel Handle	AX7HNP-NX-RC
	4.5" Threaded Swivel Handle	AX7HNR-NX-RC
	5.0" Threaded Swivel Handle	AX7HNT-NX-RC
	6.0" Threaded Swivel Handle	AX7HNX-NX-RC



AX8		SIDE A - Female Swivel NH
		6.0" Threaded Swivel
SIDE B - Male Rigid NH	4.0" Male Thread Rigid	AX8NP-NX-RC
	4.5" Male Thread Rigid	AX8NR-NX-RC
	5.0" Male Thread Rigid	AX8NT-NX-RC
	6.0" Male Thread Rigid	AX8NX-NX-RC

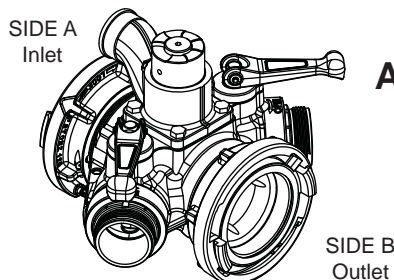
If a Pressure Relief Valve (PRV) is not required, substitute the part number prefix AX with AZ.
AZ denotes no PRV, deduct \$250 from the appropriate AX published list price.
 Blind Caps and Pressure Relief Valve information is located on page 147
 Suction Screen information is located on page 152, under LDH service kits.

LDH WATER THIEF

TFT's LDH Water Thief is a rugged valve with two valved discharge ports, each with a full 2 ½ inch waterway. Maximum operating pressure is 250 psi. Valve seats are field replaceable. Quarter turn valve handles with low force to move even under pressure. Automatic valve lock keeps its position while flowing at partial openings. Folding handles minimize storage space. Carrying strap assists in carrying and dragging hose. Aluminum casting is Hardcoat anodized and silver TFT powdercoat finish inside and out for maximum corrosion protection. Optional adjustable pressure relief valve. Contact TFT customer service for configurations not shown.

Dimensional Maximum AL1****1

25.0 lbs (11.3kg)
11.50" (29.2cm) Height
15.00" (38.1cm) Width
15.60" (39.6cm) Depth



AL1

LDH WATER THIEF WITH PRV

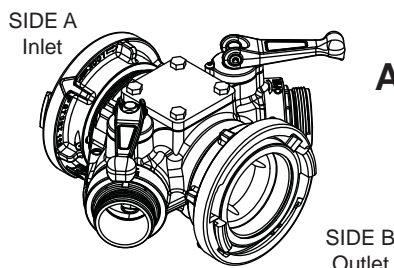
A INLET SIDE		B OUTLET SIDE	
Inlet Type	Size	Outlet Type	Size
1) Storz Rigid	P) 4"	1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"	2) Storz Swivel	R) 4.5"
3) F Rocker Lug Swivel	T) 5"	7) Male Rigid	T) 5"
5) F Long Handle Swivel			
6) F Long Handle Rigid			

1

F = Female, Water Thief Supplied with 2.5" (65mm) Male Outlets.

Dimensional Maximum AL1****0

22.0 lbs (11.3kg)
8.75" (29.2cm) Height
15.00" (38.1cm) Width
15.60" (39.6cm) Depth



AL1

LDH WATER THIEF WITHOUT PRV

A INLET SIDE		B OUTLET SIDE	
Inlet Type	Size	Outlet Type	Size
1) Storz Rigid	P) 4"	1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"	2) Storz Swivel	R) 4.5"
3) F Rocker Lug Swivel	T) 5"	7) Male Rigid	T) 5"
5) F Long Handle Swivel			
6) F Long Handle Rigid			

0

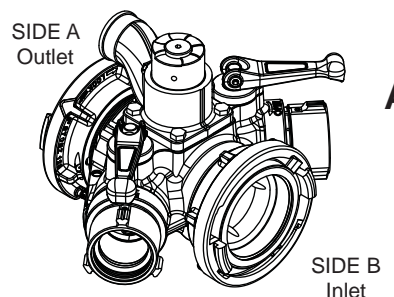
F = Female, Water Thief Supplied with 2.5" (65mm) Male Outlets.

LDH SIAMESE WATER THIEF

TFT's LDH Siamese Water Thief is a rugged valve with two valved inlet ports, each with a full 2 ½ inch waterway. Maximum operating pressure is 250 psi. Valve seats are field replaceable. Quarter turn valve handles with low force to move even under pressure. Automatic valve lock keeps its position while flowing at partial openings. Folding handles minimize storage space. Carrying strap assists in carrying and dragging hose. Aluminum casting is Hardcoat anodized and silver TFT powdercoat finish inside and out for maximum corrosion protection. Optional adjustable pressure relief valve. Contact TFT customer service for configurations not shown.

Dimensional Maximum AL5****1

25.0 lbs (11.3kg)
11.50" (29.2cm) Height
15.00" (38.1cm) Width
15.60" (39.6cm) Depth



AL5

SIAMESE WATER THIEF WITH PRV

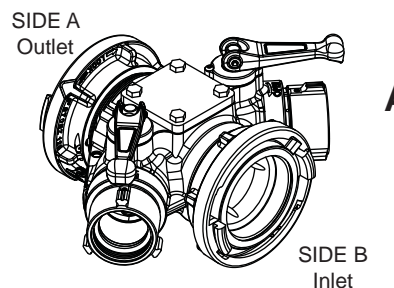
A OUTLET SIDE		B INLET SIDE	
Inlet Type	Size	Outlet Type	Size
1) Storz Rigid	P) 4"	1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"	2) Storz Swivel	R) 4.5"
7) Male Rigid	T) 5"	3) F Rocker Lug Swivel	T) 5"

1

LDH Suction Water Thief Supplied With Female 2.5" (65mm) Inlets.

Dimensional Maximum AL5****0

22.0 lbs (11.3kg)
8.75" (29.2cm) Height
15.00" (38.1cm) Width
15.60" (39.6cm) Depth



AL5

SIAMESE WATER THIEF WITHOUT PRV

A OUTLET SIDE		B INLET SIDE	
Inlet Type	Size	Outlet Type	Size
1) Storz Rigid	P) 4"	1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"	2) Storz Swivel	R) 4.5"
7) Male Rigid	T) 5"	3) F Rocker Lug Swivel	T) 5"

0

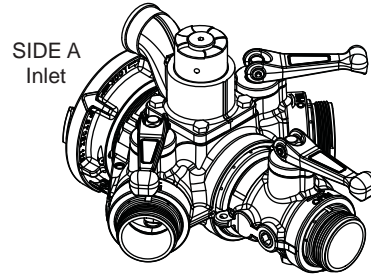
LDH Suction Water Thief Supplied With Female 2.5" (65mm) Inlets.

3-WAY VALVED MANIFOLD

TFT's 3-Way Valved Manifold is a rugged manifold with three 2 ½ inch valved discharge ports, each with a full 2 ½ inch waterway. Maximum operating pressure is 250 psi. Valve seats are field replaceable. Quarter turn valve handles with low force to move even under pressure. Automatic valve lock keeps its position while flowing at partial openings. Folding handles minimize storage space. Carrying strap assists in carrying and dragging hose. Aluminum casting is Hardcoat anodized and silver TFT powdercoat finish inside and out for maximum corrosion protection. Optional adjustable pressure relief valve that meets NFPA 1901 (2009 edition). Optional rugged ¾ inch (19mm) air bleed valve to quickly bleed air from the lines or to drain water from the valve housing. Contact TFT customer service for configurations not shown.

Dimensional Maximum AL3**1

25.0 lbs (10.4kg)
11.50" (29.2cm) Height
15.00" (38.1cm) Width
17.50" (44.5cm) Depth



3-WAY MANIFOLD WITH PRV

AL3

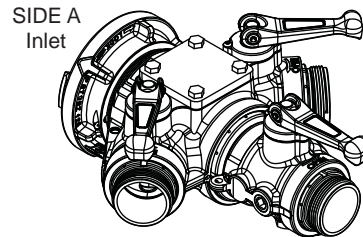
A INLET SIDE	
Inlet Type	Size
1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"
3) Female Rocker Lug Swivel	T) 5"
5) Female Long Handle Swivel	

1

3-Way Manifold Supplied with 2.5" (65mm) Male Outlets.

Dimensional Maximum AL3**0

27.3 lbs (10.4kg)
8.75" (22.2cm) Height
15.00" (38.1cm) Width
17.50" (44.5cm) Depth



3-WAY MANIFOLD WITHOUT PRV

AL3

A INLET SIDE	
Inlet Type	Size
1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"
3) Female Rocker Lug Swivel	T) 5"
5) Female Long Handle Swivel	

0

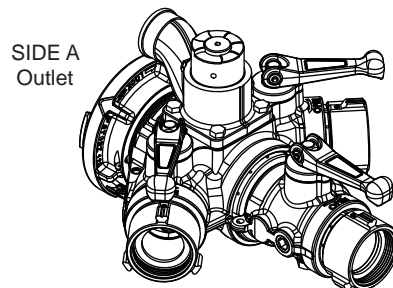
3-Way Manifold Supplied with 2.5" (65mm) Male Outlets.

3-WAY SIAMESE MANIFOLD

TFT's 3-Way Valved Siamese Manifold is a rugged siamese manifold with three 2 ½ inch valved inlet ports, each with a full 2 ½ inch waterway. Maximum operating pressure is 250 psi. Valve seats are field replaceable. Quarter turn valve handles with low force to move even under pressure. Automatic valve lock keeps its position while flowing at partial openings. Folding handles minimize storage space. Carrying strap assists in carrying and dragging hose. Aluminum casting is Hardcoat anodized and silver TFT powdercoat finish inside and out for maximum corrosion protection. Optional adjustable pressure relief valve that meets NFPA 1901 (2009 edition). Optional rugged ¾ inch (19mm) air bleed valve to quickly bleed air from the lines or to drain water from the valve housing. Contact TFT customer service for configurations not shown.

Dimensional Maximum AL7**1

23.0 lbs (10.4kg)
11.50" (29.2cm) Height
15.00" (38.1cm) Width
17.50" (44.5cm) Depth



3-WAY SIAMESE WITH PRV

AL7

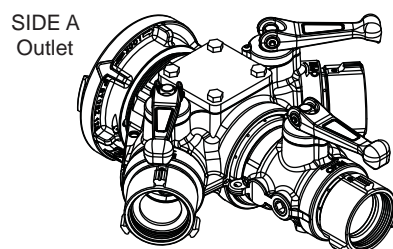
A OUTLET SIDE	
Outlet Type	Size
1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"
7) Male Rigid	T) 5"

1

3-Way Siamese Manifold
Supplied with 2.5" (65mm)
Female Inlets.

Dimensional Maximum AL7**0

23.0 lbs (10.4kg)
8.75" (22.2cm) Height
15.00" (38.1cm) Width
17.50" (44.5cm) Depth



3-WAY SIAMESE WITHOUT PRV

AL7

A OUTLET SIDE	
Outlet Type	Size
1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"
7) Male Rigid	T) 5"

0

3-Way Siamese Manifold
Supplied with 2.5" (65mm)
Female Inlets.

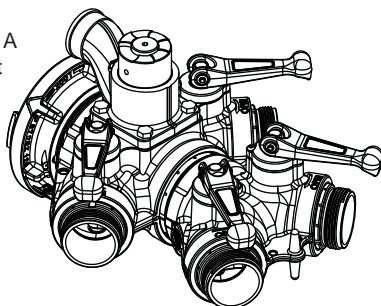
4-WAY VALVED MANIFOLD

TFT's 4-Way Valved Manifold is a rugged manifold with four 2 ½ inch valved discharge ports, each with a full 2 ½ inch waterway. Maximum operating pressure is 250 psi. Valve seats are field replaceable. Quarter turn valve handles with low force to move even under pressure. Automatic valve lock keeps its position while flowing at partial openings. Folding handles minimize storage space. Carrying strap assists in carrying and dragging hose. Aluminum casting is Hardcoat anodized and silver TFT powdercoat finish inside and out for maximum corrosion protection. Optional adjustable pressure relief valve that meets NFPA 1901 (2009 edition). Optional rugged ¾ inch (19mm) air bleed valve to quickly bleed air from the lines or to drain water from the valve housing. Contact TFT customer service for configurations not shown.

Dimensional Maximum AL4**1

30.0 lbs (13.6kg)
11.50" (29.2cm) Height
15.00" (38.1cm) Width
17.50" (44.5cm) Depth

SIDE A
Inlet



AL4

4-WAY MANIFOLD WITH PRV

A INLET SIDE	
Inlet Type	Size
1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"
3) Female Rocker Lug Swivel	T) 5"
5) Female Long Handle Swivel	

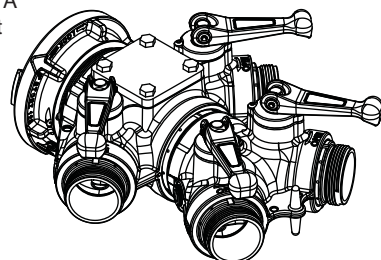
1

4-Way Manifold Supplied with 2.5" (65mm) Male Outlets.

Dimensional Maximum AL4**0

27.3 lbs (13.6kg)
8.75" (29.2cm) Height
15.00" (38.1cm) Width
17.50" (44.5cm) Depth

SIDE A
Inlet



AL4

4-WAY MANIFOLD WITHOUT PRV

A INLET SIDE	
Inlet Type	Size
1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"
3) Female Rocker Lug Swivel	T) 5"
5) Female Long Handle Swivel	

0

4-Way Manifold Supplied with 2.5" (65mm) Male Outlets.

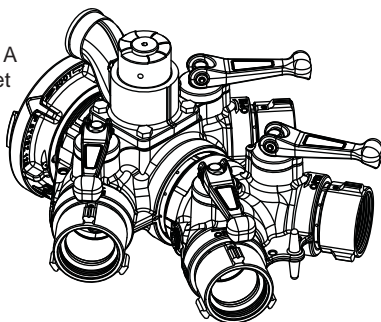
4-WAY VALVED SIAMESE

TFT's 4-Way Valved Siamese Manifold is a rugged siamese manifold with four 2 ½ inch valved inlet ports, each with a full 2 ½ inch waterway. Maximum operating pressure is 250 psi. Valve seats are field replaceable. Quarter turn valve handles with low force to move even under pressure. Automatic valve lock keeps its position while flowing at partial openings. Folding handles minimize storage space. Carrying strap assists in carrying and dragging hose. Aluminum casting is Hardcoat anodized and silver TFT powdercoat finish inside and out for maximum corrosion protection. Optional adjustable pressure relief valve that meets NFPA 1901 (2009 edition). Optional rugged ¾ inch (19mm) air bleed valve to quickly bleed air from the lines or to drain water from the valve housing. Contact TFT customer service for configurations not shown.

Dimensional Maximum AL8**1

30.0 lbs (13.6kg)
11.50" (29.2cm) Height
(with PRV and Drain)
15.00" (38.1cm) Width
17.50" (44.5cm) Depth

SIDE A
Outlet



AL8

4-WAY SIAMESE WITH PRV

A OUTLET SIDE	
Outlet Type	Size
1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"
7) Male Rigid	T) 5"

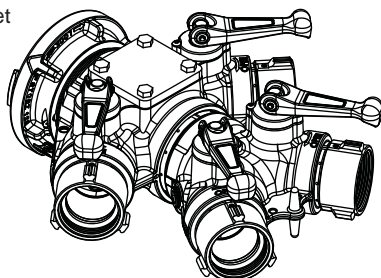
1

4-Way Siamese Manifold Supplied with 2.5" (65mm) Female Inlets.

Dimensional Maximum AL8**0

27.3 lbs (13.6kg)
8.75" (29.2cm) Height
(no PRV or Drain)
15.00" (38.1cm) Width
17.50" (44.5cm) Depth

SIDE A
Outlet



AL8

4-WAY SIAMESE WITHOUT PRV

A OUTLET SIDE	
Outlet Type	Size
1) Storz Rigid	P) 4"
2) Storz Swivel	R) 4.5"
7) Male Rigid	T) 5"

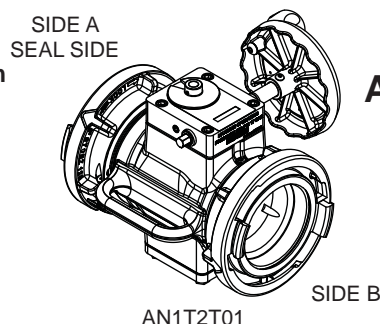
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4-Way Siamese Manifold Supplied with 2.5" (65mm) Female Inlets.

TFT's In-Line Valve is a multi-purpose valve designed for use with 3.5, 4, 4.5, 5, or 6 inch (89, 100, 115, 125 or 150mm) hose. Maximum operating pressure is 250 psi (17bar). Meets 900psi (62 bar) hydrostatic strength test. The aluminum casting are Hardcoat anodized, and powdercoat finished inside and out for maximum corrosion protection. The valve meets NPFA slow close requirements. Optional adjustable pressure relief valve meets NFPA 1901 (2009 edition). Optional rugged 3/4 inch (19mm) air bleed valve quickly bleeds air from the lines or drains water from the valve housing. Contact TFT customer service for configurations not shown.

Dimensional Maximum AN****01

20.00 lbs (9.1kg)
9.20" (23.4cm) Height
8.60" (21.8cm) Width
10.10" (25.7cm) Depth



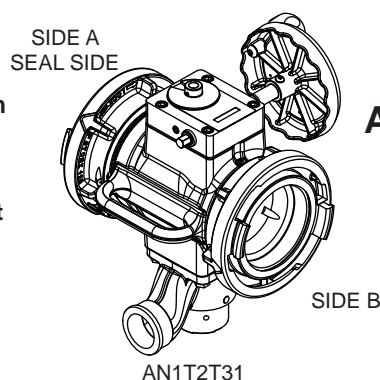
IN-LINE VALVE WITH STANDARD GEARBOX

SIDE A		SIDE B		01
Side A Type	Size	Side B Type	Size	
1) Storz Rigid	P) 4"	1) Storz Rigid	P) 4"	
2) Storz Swivel	R) 4.5"	2) Storz Swivel	R) 4.5"	
3) F Rocker Lug Swivel	T) 5"	3) F Rocker Lug Swivel	T) 5"	
5) F Long Handle Swivel		5) F Long Handle Swivel		
7) Male Rigid		7) Male Rigid		

F = Female

Dimensional Maximum AN****31

24.50 lbs (9.1kg)
15.60" (23.4cm) Height
8.60" (21.8cm) Width
10.10" (25.7cm) Depth



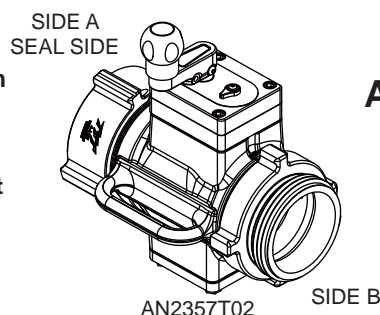
IN-LINE VALVE WITH STANDARD GEARBOX, PRV & DRAIN

SIDE A		SIDE B		31
Side A Type	Size	Side B Type	Size	
1) Storz Rigid	P) 4"	1) Storz Rigid	P) 4"	
2) Storz Swivel	R) 4.5"	2) Storz Swivel	R) 4.5"	
3) F Rocker Lug Swivel	T) 5"	3) F Rocker Lug Swivel	T) 5"	
5) F Long Handle Swivel		5) F Long Handle Swivel		
7) Male Rigid		7) Male Rigid		

F = Female

Dimensional Maximum AN1T1T02

23.0 lbs (9.1kg)
13.80" (23.4cm) Height
8.60" (21.8cm) Width
10.10" (25.7cm) Depth



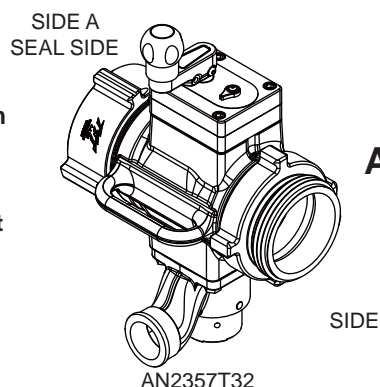
IN-LINE VALVE WITH PARALLEL SHAFT DRIVE GEARBOX

SIDE A		SIDE B		02
Side A Type	Size	Side B Type	Size	
1) Storz Rigid	P) 4"	1) Storz Rigid	P) 4"	
2) Storz Swivel	R) 4.5"	2) Storz Swivel	R) 4.5"	
3) F Rocker Lug Swivel	T) 5"	3) F Rocker Lug Swivel	T) 5"	
5) F Long Handle Swivel		5) F Long Handle Swivel		
7) Male Rigid		7) Male Rigid		

F = Female

Dimensional Maximum AN****32

26.00 lbs (9.1kg)
17.60" (23.4cm) Height
8.60" (21.8cm) Width
10.10" (25.7cm) Depth



IN-LINE VALVE WITH PARALLEL SHAFT DRIVE GEARBOX, PRV & DRAIN

SIDE A		SIDE B		32
Side A Type	Size	Side B Type	Size	
1) Storz Rigid	P) 4"	1) Storz Rigid	P) 4"	
2) Storz Swivel	R) 4.5"	2) Storz Swivel	R) 4.5"	
3) F Rocker Lug Swivel	T) 5"	3) F Rocker Lug Swivel	T) 5"	
5) F Long Handle Swivel		5) F Long Handle Swivel		
7) Male Rigid		7) Male Rigid		

F = Female

Suction Screen information is located on page 152, under LDH service kits.

2 ½" GATED WYE

TFT's 2 ½ Inch Gated Wye is a lightweight wye with a full 2 ½ inch waterway. 250 psi (17 bar) operating pressure from either side of valve. Field replaceable valve seats. Quarter turn folding valve handles for the ultimate in compactness. Low force to move valve even under pressure. Cast in carrying handle. Automatic valve lock keeps valve position while flowing at partial openings. Pipe threaded ports for pressure gauge and bleed valve. Holes for cap tether attachment. Aluminum casting is hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. Contact TFT customer service for configurations not shown.

Dimensions for AY5NJ-NJ

10.1 lbs (4.6 kg)

8.90" (23.0cm) Height

10.50" (27.0cm) Width

7.40" (19.0cm) Depth

AY

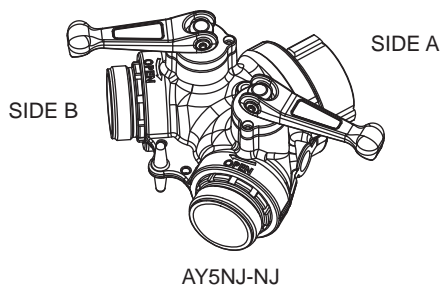


(Choose Side B suffix from table)

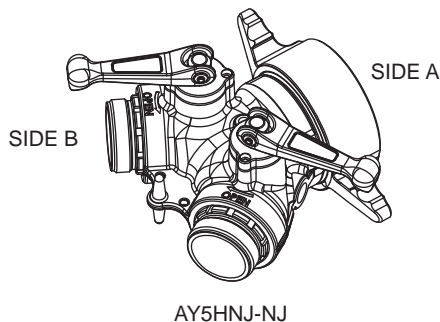
Example: A 2.5" Single Female Swivel Rocker Lug to a 2.5" Single Male Rigid Outlet would be a **AY5NJ-NJ**

AY175-KIT - GAGE KIT is available for the AY Series Gated Wye.

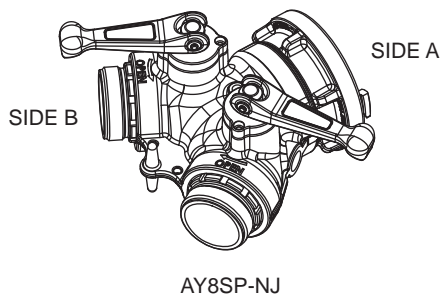
A1621-KIT - VENT DRAIN KIT is available for the AY Series Gated Wye. See page 136



AY5		SIDE B - Dual Male Rigid NH
		2.5" Threaded
Side A Single Female Swivel Rocker Lug NH	2.5" Threaded Swivel	AY5NJ-NJ
	4.0" Threaded Swivel	AY5NP-NJ
	4.5" Threaded Swivel	AY5NR-NJ
	5.0" Threaded Swivel	AY5NT-NJ



AY5H		SIDE B - Dual Male Rigid NH
		2.5" Threaded
Side A Single Female Swivel Handle NH	2.5" Threaded Swivel	AY5HNJ-NJ
	4.0" Threaded Swivel	AY5HNP-NJ
	4.5" Threaded Swivel	AY5HNR-NJ
	5.0" Threaded Swivel	AY5HNT-NJ
	6.0" Threaded Swivel	AY5HNX-NJ



AY8		SIDE B - Dual Male Rigid NH
		2.5" Threaded
Side A Single Swivel	4.0" Storz Swivel	AY8SP-NJ
	5.0" Storz Swivel	AY8ST-NJ
	6.0" Storz Swivel	AY8SX-NJ

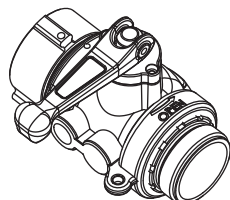
2 ½" QUARTER TURN HYDRANT VALVE

TFT's 2 ½ Inch Quarter Turn Hydrant Valve is a lightweight valve with a full 2 ½ inch waterway. 250 psi (17 bar) operating pressure from either side of valve. Field replaceable valve seat. Quarter turn valve handle has low force to move valve even under pressure. Automatic valve lock keeps valve position while flowing at partial openings. All the components on the wet side of the valve are made of anodized aluminum for additional corrosion protection. Pipe threaded ports for pressure gauge or bleed valve. Hole for cap tether attachment. Aluminum casting is hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection.

AV5NJ-NJ

5.8 lbs (2.6 kg)

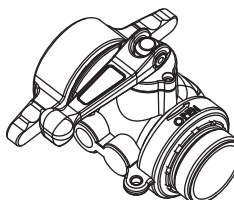
8.90"H x 5.7"W x 8.4"L
(23.0 x 15.0 x 21.0 cm)



AV5HNJ-NJ

5.8 lbs (2.6 kg)

8.90"H x 8.9"W x 8.4"L
(23.0 x 23.0 x 21.0 cm)



A1621-KIT - VENT DRAIN KIT is available for the 2.5" Quarter Turn Hydrant Valve. See page 152

2 ½" GATED SIAMESE

TFT's 2 ½ Inch Gated Siamese is a lightweight wye with a full 2 ½ inch waterway. 250 psi (17 bar) operating pressure from either side of valve. Field replaceable valve seats. Quarter turn folding valve handles for the ultimate in compactness. Low force to move valve even under pressure. Cast in carrying handle. Automatic valve lock keeps valve position while flowing at partial openings. Pipe threaded ports for pressure gage and bleed valve. Holes for cap tether attachment. Aluminum casting is hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. Contact TFT customer service for configurations not shown.

Dimensions for AY7NJ-NJ

10.1 lbs (4.6 kg)
8.90" (23.0 cm) Height
10.50" (27.0 cm) Width
7.40" (19.0 cm) Depth

AY

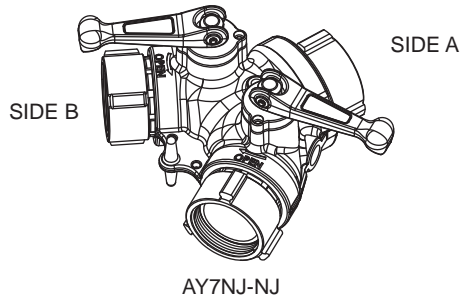
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(Choose Side B suffix from table)

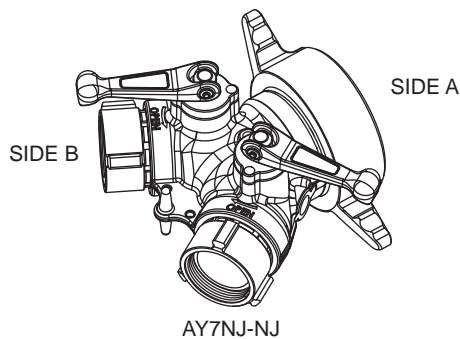
Example: A 2.5" Single Female Swivel Rocker Lug to a 2.5" Dual Female Swivel Rocker Lug would be a AY7NJ-NJ

AY175-KIT - GAUGE KIT is available for the AY Series Siamese.

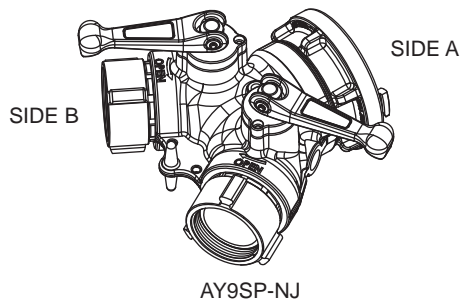
A1621-KIT - VENT DRAIN KIT is available for the AY Series Siamese. See page 152



AY7		SIDE B - Dual Female Swivel Rocker Lug NH
		2.5" Threaded
Side A Single Female Swivel Rocker Lug NH	2.5" Threaded Swivel	AY7NJ-NJ
	4.0" Threaded Swivel	AY7NP-NJ
	4.5" Threaded Swivel	AY7NR-NJ
	5.0" Threaded Swivel	AY7NT-NJ



AY7H		SIDE B - Dual Female Swivel Rocker Lug NH
		2.5" Threaded
Side A Single Female Swivel Handle NH	2.5" Threaded Swivel	AY7HNJ-NJ
	4.0" Threaded Swivel	AY7HNP-NJ
	4.5" Threaded Swivel	AY7HNR-NJ
	5.0" Threaded Swivel	AY7HNT-NJ
	6.0" Threaded Swivel	AY7HNX-NJ



AY9		SIDE B - Dual Female Swivel Rocker Lug NH
		2.5" Threaded
Side A Single Swivel	4.0" Storz Swivel	AY9SP-NJ
	5.0" Storz Swivel	AY9ST-NJ
	6.0" Storz Swivel	AY9SX-NJ

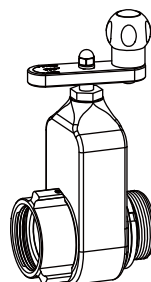
2 ½" (65mm) HYDRANT GATE VALVE

AC5ANJ-NJ

7.2 lb (3.3kg)
12.4"H x 4"W x 5.70"L
(31.5 x 10.2 x 14.5cm)

AC5BNJ-NJ

15.5 lb (7.0kg)
12.4"H x 4"W x 5.70"L
(31.5 x 10.2 x 14.5cm)



AC5ANJ-NJ - 2.5" HYDRANT GATE VALVE - Full flow waterway; non-rising stem; high-strength heat treated, hard anodized aluminum body and swivel; bronze stem, gland, gate, nipple and seat. Intended for use on standpipe, fire pumps and hydrants. Rocker lug 2.5" (65mm) NH female swivel coupling inlet x 2.5" (65mm) male outlet. Weight is 7.2 lbs (3.3 kg).

AC5BNJ-NJ - 2.5" HYDRANT GATE VALVE, same as above but in brass. Weight is 15.5 lb (7.0kg).

JUMBO SIAMESE

AS Series - JUMBO SIAMESE - Designed for 2.5, 3, 3.5, 4, 4.5, 5, or 6 inch (65, 75, 90, 100, 115, 125, or 150mm) hose. All siamese appliances feature a clapper valve with indicator for visual check of clapper position. TFT's siamese are more efficient for LDH flow systems. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized and TFT-powder coat finish inside and out for maximum corrosion protection. Rugged carrying handle included. Clapper allows a second line to be added without interruption in water flow. Three strategically placed legs allow the appliance to sit off the ground even with 6" Storz on inlet/outlet. Large main housing provides superior strength and durability. Hose couplings are attached using polymer bearing rings, which provide electrical isolation to help prevent galvanic corrosion. Contact TFT customer service for configurations not shown.

Dimensional Maximum

AS7NT-NT

21.9 lbs (9.9kg)

11.50" (29.1cm) Length

15.20" (38.6cm) Width

10.10" (25.6cm) Height

AS

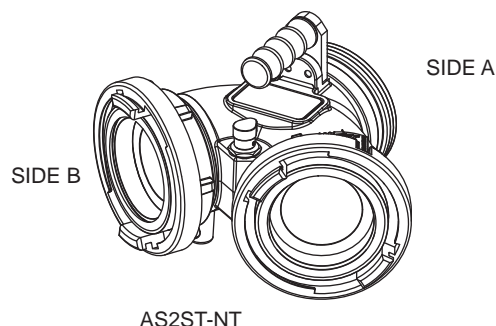


(Choose Side A/Side B suffix from table)

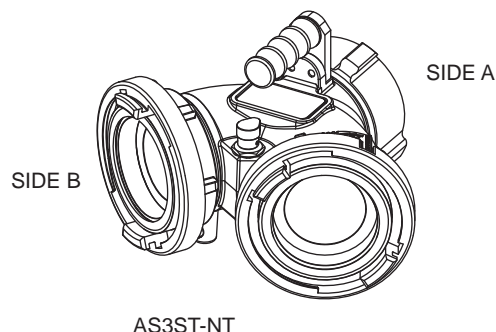
Example: A 4" Storz Swivel Dual inlet to a 5" National Hose

thread Male Rigid Outlet would be a AS2SP-NT

AS2		SIDE A - Single Male Rigid NH			
		4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Dual Swivel	4.0" Storz Swivel	AS2SP-NP	AS2SP-NR	AS2SP-NT	AS2SP-NX
	5.0" Storz Swivel	AS2ST-NP	AS2ST-NR	AS2ST-NT	AS2ST-NX
	6.0" Storz Swivel	AS2SX-NP	AS2SX-NR	AS2SX-NT	AS2SX-NX

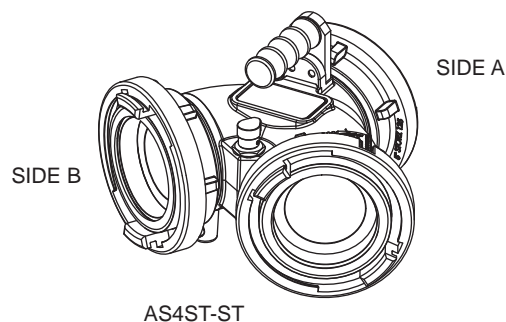


AS3		SIDE A - Single Female Swivel Rocker NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Dual Swivel	4.0" Storz Swivel	AS3SP-NP	AS3SP-NR	AS3SP-NT	AS3SP-NX
	5.0" Storz Swivel	AS3ST-NP	AS3ST-NR	AS3ST-NT	AS3ST-NX
	6.0" Storz Swivel	AS3SX-NP	AS3SX-NR	AS3SX-NT	AS3SX-NX

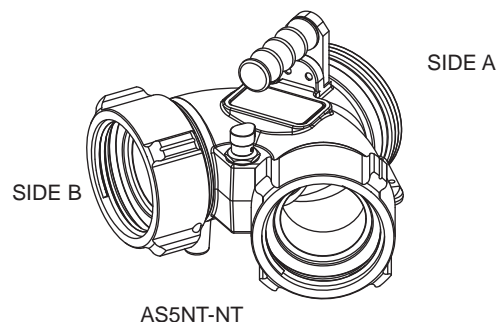


* Long handle only. All others rocker lug.

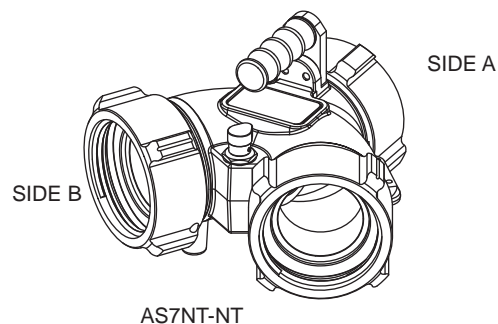
AS4		SIDE A - Single Swivel		
		4.0" Storz Swivel	5.0" Storz Swivel	6.0" Storz Swivel
SIDE B - Dual Swivel	4.0" Storz Swivel	AS4SP-SP	AS4SP-ST	AS4SP-SX
	5.0" Storz Swivel	AS4ST-SP	AS4ST-ST	AS4ST-SX
	6.0" Storz Swivel	AS4SX-SP	AS4SX-ST	AS4SX-SX



AS5		SIDE A - Single Male Rigid NH			
		4.0" Threaded Male Rigid	4.5" Threaded Male Rigid	5.0" Threaded Male Rigid	6.0" Threaded Male Rigid
SIDE B - Dual Female Swivel Rocker NH	3.0" Threaded Swivel	AS5NL-NP	AS5NL-NR	AS5NL-NT	AS5NL-NX
	3.5" Threaded Swivel	AS5NN-NP	AS5NN-NR	AS5NN-NT	AS5NN-NX
	4.0" Threaded Swivel	AS5NP-NP	AS5NP-NR	AS5NP-NT	AS5NP-NX
	4.5" Threaded Swivel	AS5NR-NP	AS5NR-NR	AS5NR-NT	AS5NR-NX
	5.0" Threaded Swivel	AS5NT-NP	AS5NT-NR	AS5NT-NT	AS5NT-NX

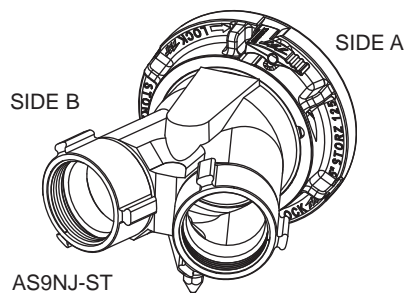


AS7		SIDE A - Single Female Swivel Rocker NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Dual Female Swivel Rocker NH	3.0" Threaded Swivel	AS7NL-NP	AS7NL-NR	AS7NL-NT	AS7NL-NX
	3.5" Threaded Swivel	AS7NN-NP	AS7NN-NR	AS7NN-NT	AS7NN-NX
	4.0" Threaded Swivel	AS7NP-NP	AS7NP-NR	AS7NP-NT	AS7NP-NX
	4.5" Threaded Swivel	AS7NR-NP	AS7NR-NR	AS7NR-NT	AS7NR-NX
	5.0" Threaded Swivel	AS7NT-NP	AS7NT-NR	AS7NT-NT	AS7NT-NX

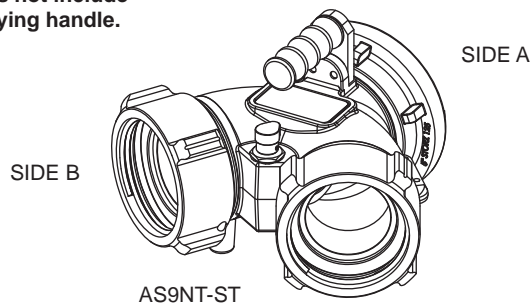


* Long handle only. All others rocker lug.

AS9		SIDE A - Single Storz Swivel		
		4.0" Storz Swivel	5.0" Storz Swivel	6.0" Storz Swivel
SIDE B - Dual Female Swivel Rocker NH	2.5" Threaded Swivel	AS9NJ-SP*	AS9NJ-ST*	
	3.0" Threaded Swivel	AS9NL-SP	AS9NL-ST	AS9NL-SX
	3.5" Threaded Swivel	AS9NN-SP	AS9NN-ST	AS9NN-SX
	4.0" Threaded Swivel	AS9NP-SP	AS9NP-ST	AS9NP-SX
	4.5" Threaded Swivel	AS9NR-SP	AS9NR-ST	AS9NR-SX
	5.0" Threaded Swivel	AS9NT-SP	AS9NT-ST	AS9NT-SX



*Does not include carrying handle.



AW Series - JUMBO WYE - The same construction as the JUMBO SIAMESE, but without the clapper. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized and TFT-powder coat finish inside and out for maximum corrosion protection. Rugged carrying handle included. Three strategically placed legs allow the appliance to sit off the ground even with 6" Storz on inlet/outlet. Large main housing provides superior strength and durability. Hose couplings are attached using polymer bearing rings, which provide electrical isolation to help prevent galvanic corrosion. Contact TFT customer service for configurations not shown.

Dimensional Maximums

AW7NT-NT

16.6 lbs (7.5kg)

11.50" (29.1cm) Length

15.20" (38.6cm) Width

10.10" (25.6cm) Height

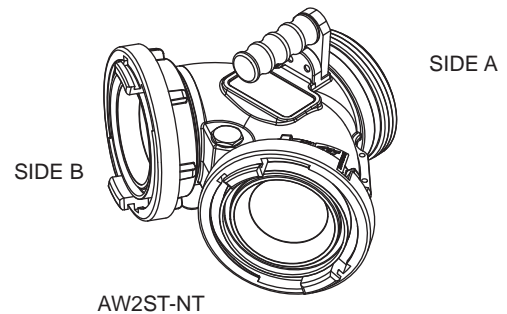
AW

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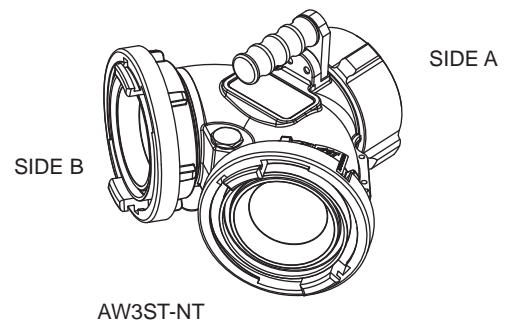
(Choose Side A/Side B suffix from table)

Example: A 4" Storz Swivel Double inlet to a 5" National Hose thread Male Rigid Spout Single Outlet would be a **AW2SP-NT**

AW2		SIDE A - Single Male Rigid NH			
		4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Dual Swivel	4.0" Storz Swivel	AW2SP-NP	AW2SP-NR	AW2SP-NT	AW2SP-NX
	5.0" Storz Swivel	AW2ST-NP	AW2ST-NR	AW2ST-NT	AW2ST-NX
	6.0" Storz Swivel	AW2SX-NP	AW2SX-NR	AW2SX-NT	AW2SX-NX

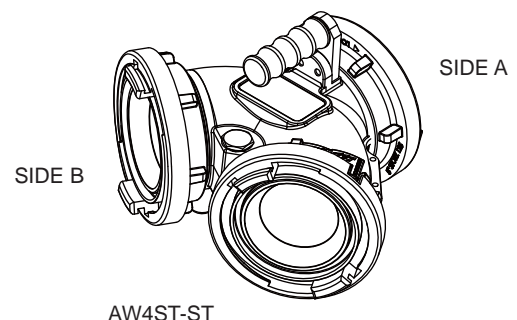


AW3		SIDE A - Single Female Swivel Rocker NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Dual Swivel	4.0" Storz Swivel	AW3SP-NP	AW3SP-NR	AW3SP-NT	AW3SP-NX
	5.0" Storz Swivel	AW3ST-NP	AW3ST-NR	AW3ST-NT	AW3ST-NX
	6.0" Storz Swivel	AW3SX-NP	AW3SX-NR	AW3SX-NT	AW3SX-NX

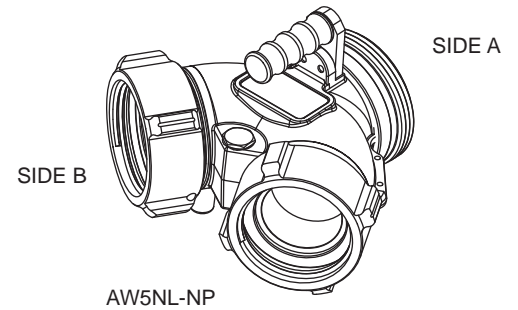


* Long handle only. All others rocker lug.

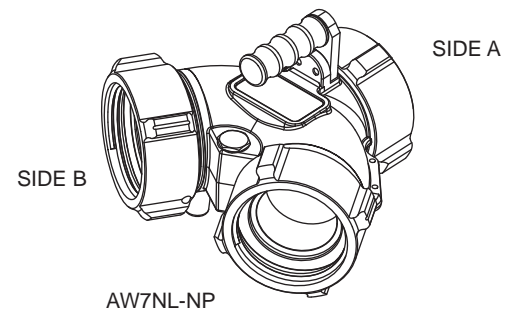
AW4		SIDE A - Single Swivel		
		4.0" Storz Swivel	5.0" Storz Swivel	6.0" Storz Swivel
SIDE B - Dual Swivel	4.0" Storz Swivel	AW4SP-SP	AW4SP-ST	AW4SP-SX
	5.0" Storz Swivel	AW4ST-SP	AW4ST-ST	AW4ST-SX
	6.0" Storz Swivel	AW4SX-SP	AW4SX-ST	AW4SX-SX



AW5		SIDE A - Single Male Rigid NH			
		4.0" Threaded Male Rigid	4.5" Threaded Male Rigid	5.0" Threaded Male Rigid	6.0" Threaded Male Rigid
SIDE B - Dual Female Swivel Rocker NH	3.0" Threaded Swivel	AW5NL-NP	AW5NL-NR	AW5NL-NT	AW5NL-NX
	3.5" Threaded Swivel	AW5NN-NP	AW5NN-NR	AW5NN-NT	AW5NN-NX
	4.0" Threaded Swivel	AW5NP-NP	AW5NP-NR	AW5NP-NT	AW5NP-NX
	4.5" Threaded Swivel	AW5NR-NP	AW5NR-NR	AW5NR-NT	AW5NR-NX
	5.0" Threaded Swivel	AW5NT-NP	AW5NT-NR	AW5NT-NT	AW5NT-NX

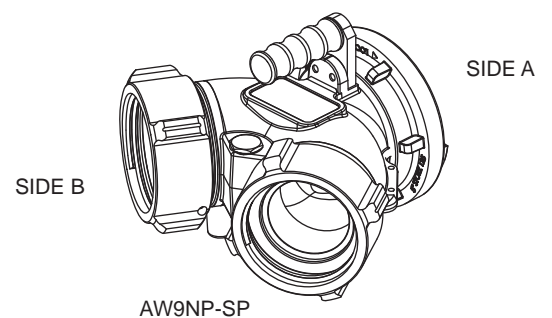


AW7		SIDE A - Single Female Swivel Rocker NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0"*** Threaded Swivel
SIDE B - Dual Female Swivel Rocker NH	3.0" Threaded Swivel	AW7NL-NP	AW7NL-NR	AW7NL-NT	AW7NL-NX
	3.5" Threaded Swivel	AW7NN-NP	AW7NN-NR	AW7NN-NT	AW7NN-NX
	4.0" Threaded Swivel	AW7NP-NP	AW7NP-NR	AW7NP-NT	AW7NP-NX
	4.5" Threaded Swivel	AW7NR-NP	AW7NR-NR	AW7NR-NT	AW7NR-NX
	5.0" Threaded Swivel	AW7NT-NP	AW7NT-NR	AW7NT-NT	AW7NT-NX



* Long handle only. All others rocker lug.

AW9		SIDE A - Single Storz Swivel		
		4.0" Storz Swivel	5.0" Storz Swivel	6.0" Storz Swivel
SIDE B - Dual Female Swivel Rocker NH	3.0" Threaded Swivel	AW9NL-SP	AW9NL-ST	AW9NL-SX
	3.5" Threaded Swivel	AW9NN-SP	AW9NN-ST	AW9NN-SX
	4.0" Threaded Swivel	AW9NP-SP	AW9NP-ST	AW9NP-SX
	4.5" Threaded Swivel	AW9NR-SP	AW9NR-ST	AW9NR-SX
	5.0" Threaded Swivel	AW9NT-SP	AW9NT-ST	AW9NT-SX



ADAPTERS

AA Series - ADAPTERS - Designed for pressure or vacuum service on hydrant, pumper, or ground. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum parts are hardcoat anodized for maximum corrosion protection. Hose couplings are attached using polymer bearing rings, which provide electrical isolation to help prevent galvanic corrosion. Contact TFT customer service for configurations not shown.

Dimensional Maximum

AA7HNX-NX

7.3 lbs (3.3kg)

4.9" (12.6cm) Length

11.8" (29.8cm) Width

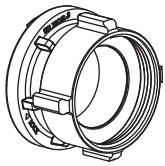
AA

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(Choose Side A/Side B suffix from table)

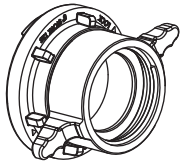
Example: A 5" Storz Rigid to a 4" National Hose Rocker Lug

Female Rigid would be a AA1ST-NP



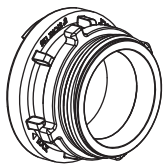
SIDE A

		SIDE A - Female Rigid Rocker NH					
		2.5" Threaded Rigid	3.0" Threaded Rigid	3.5" Threaded Rigid	4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid
SIDE B - Storz Rigid	4.0" Storz Rigid	AA1SP-NJ	AA1SP-NL	AA1SP-NN	AA1SP-NP	AA1SP-NR	AA1SP-NT
	5.0" Storz Rigid	AA1ST-NJ	AA1ST-NL	AA1ST-NN	AA1ST-NP	AA1ST-NR	AA1ST-NT
	6.0" Storz Rigid	AA1SX-NJ	AA1SX-NL	AA1SX-NN	AA1SX-NP	AA1SX-NR	AA1SX-NT



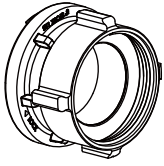
SIDE A

		SIDE A - Female Rigid Handle NH			
		4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Storz Rigid	4.0" Storz Rigid	AA1HSP-NP	AA1HSP-NR	AA1HSP-NT	AA1HSP-NX
	5.0" Storz Rigid	AA1HST-NP	AA1HST-NR	AA1HST-NT	AA1HST-NX
	6.0" Storz Rigid	AA1HSX-NP	AA1HSX-NR	AA1HSX-NT	AA1HSX-NX



SIDE A

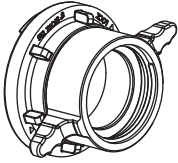
		SIDE A - Male Rigid NH						
		2.5" Threaded Rigid	3.0" Threaded Rigid	3.5" Threaded Rigid	4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Storz Rigid	4.0" Storz Rigid	AA2SP-NJ	AA2SP-NL	AA2SP-NN	AA2SP-NP	AA2SP-NR	AA2SP-NT	AA2SP-NX
	5.0" Storz Rigid	AA2ST-NJ	AA2ST-NL	AA2ST-NN	AA2ST-NP	AA2ST-NR	AA2ST-NT	AA2ST-NX
	6.0" Storz Rigid	AA2SX-NJ	AA2SX-NL	AA2SX-NN	AA2SX-NP	AA2SX-NR	AA2SX-NT	AA2SX-NX



SIDE A

SIDE A - Female Swivel Rocker NH

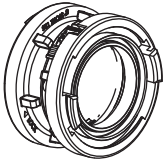
		2.5" Threaded Swivel	3.0" Threaded Swivel	3.5" Threaded Swivel	4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel
SIDE B - Storz Swivel	4.0" Storz Swivel	AA3SP-NJ	AA3SP-NL	AA3SP-NN	AA3SP-NP	AA3SP-NR	AA3SP-NT
	5.0" Storz Swivel	AA3ST-NJ	AA3ST-NL	AA3ST-NN	AA3ST-NP	AA3ST-NR	AA3ST-NT
	6.0" Storz Swivel	AA3SX-NJ	AA3SX-NL	AA3SX-NN	AA3SX-NP	AA3SX-NR	AA3SX-NT



SIDE A

SIDE A - Female Swivel Handle NH

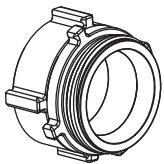
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Storz Swivel	4.0" Storz Swivel	AA3HSP-NP	AA3HSP-NR	AA3HSP-NT	AA3HSP-NX
	5.0" Storz Swivel	AA3HST-NP	AA3HST-NR	AA3HST-NT	AA3HST-NX
	6.0" Storz Swivel	AA3HSX-NP	AA3HSX-NR	AA3HSX-NT	AA3HSX-NX



SIDE A

SIDE A - Storz Rigid

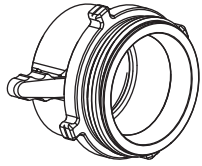
		4.0" Storz Rigid	5.0" Storz Rigid	6.0" Storz Rigid
SIDE B - Storz Rigid	4.0" Storz Rigid	AA4SP-SP		
	5.0" Storz Rigid	AA4ST-SP	AA4ST-ST	
	6.0" Storz Rigid	AA4SX-SP	AA4SX-ST	AA4SX-SX



SIDE A

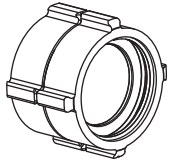
SIDE A - Male Rigid

		2.5" Threaded Rigid	4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Female Rigid Rocker NH	4.0" Threaded Rigid	AA5NP-NJ	AA5NP-NP	AA5NP-NR	AA5NP-NT	AA5NP-NX
	4.5" Threaded Rigid		AA5NR-NP	AA5NR-NR	AA5NR-NT	AA5NR-NX
	5.0" Threaded Rigid		AA5NT-NP	AA5NT-NR	AA5NT-NT	AA5NT-NX



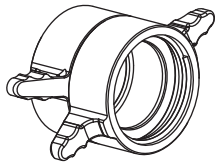
SIDE A

		SIDE A - Male Rigid NH			
		4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Female Rigid Handle NH	4.0" Threaded Rigid	AA5HNP-NP	AA5HNP-NR	AA5HNP-NT	AA5HNP-NX
	4.5" Threaded Rigid	AA5HNR-NP	AA5HNR-NR	AA5HNR-NT	AA5HNR-NX
	5.0" Threaded Rigid	AA5HNT-NP	AA5HNT-NR	AA5HNT-NT	AA5HNT-NX
	6.0" Threaded Rigid	AA5HNX-NP	AA5HNX-NR	AA5HNX-NT	AA5HNX-NX



SIDE A

		SIDE A - Female Swivel Rocker NH		
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel
SIDE B - Female Swivel Rocker NH	4.0" Threaded Swivel	AA7NP-NP		
	4.5" Threaded Swivel	AA7NR-NP	AA7NR-NR	
	5.0" Threaded Swivel	AA7NT-NP	AA7NT-NR	AA7NT-NT



SIDE A

		SIDE A - Female Swivel Handle NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel	AA7HNP-NP			
	4.5" Threaded Swivel	AA7HNR-NP	AA7HNR-NR		
	5.0" Threaded Swivel	AA7HNT-NP	AA7HNT-NR	AA7HNT-NT	
	6.0" Threaded Swivel	AA7HNX-NP	AA7HNX-NR	AA7HNX-NT	AA7HNX-NX

AH Series - ELBOWS - Made of all lightweight material. Elbows are cast to a 30-degree down angle to relieve weight of the hose when connected. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. All elbows are hardcoat anodized and powder coated for maximum corrosion protection. Hose couplings are attached using polymer bearing rings, which provide electrical isolation to help prevent galvanic corrosion. AContact TFT customer service for configurations not shown.

Dimensional Maximum

AH7HNT-NT

9.4 lbs (4.3kg)

9.2" (23.4cm) Length

11.1" (28.3cm) Width

9.1" (23.1cm) Depth

AH



(Choose Side A/Side B suffix from table)

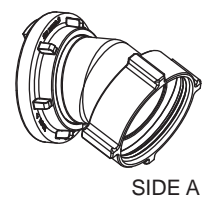
Example: A 5" Storz Rigid to a 4" National Hose Female

Rocker Lug Swivel would be a AH3ST-NP

		SIDE A - Female Swivel Rocker NH					
		2.5" Threaded Swivel	3.0" Threaded Swivel	3.5" Threaded Swivel	4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel
SIDE B - Storz Swivel	4.0" Storz Swivel	AH1SP-NJ	AH1SP-NL	AH1SP-NN	AH1SP-NP	AH1SP-NR	AH1SP-NT
	5.0" Storz Swivel	AH1ST-NJ	AH1ST-NL	AH1ST-NN	AH1ST-NP	AH1ST-NR	AH1ST-NT
	6.0" Storz Swivel	AH1SX-NJ	AH1SX-NL	AH1SX-NN	AH1SX-NP	AH1SX-NR	AH1SX-NT

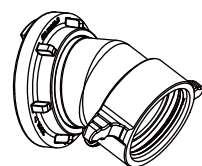
		SIDE A - Female Swivel Handle NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Storz Swivel	4.0" Storz Swivel	AH1HSP-NP	AH1HSP-NR	AH1HSP-NT	AH1HSP-NX
	5.0" Storz Swivel	AH1HST-NP	AH1HST-NR	AH1HST-NT	AH1HST-NX
	6.0" Storz Swivel	AH1HSX-NP	AH1HSX-NR	AH1HSX-NT	AH1HSX-NX

		SIDE A - Male Rigid NH						
		2.5" Threaded Rigid	3.0" Threaded Rigid	4.5" Threaded Rigid	4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Storz Rigid	4.0" Storz Rigid	AH2SP-NJ	AH2SP-NL	AH2SP-NN	AH2SP-NP	AH2SP-NR	AH2SP-NT	AH2SP-NX
	5.0" Storz Rigid	AH2ST-NJ	AH2ST-NL	AH2ST-NN	AH2ST-NP	AH2ST-NR	AH2ST-NT	AH2ST-NX
	6.0" Storz Rigid	AH2SX-NJ	AH2SX-NL	AH2SX-NN	AH2SX-NP	AH2SX-NR	AH2SX-NT	AH2SX-NX



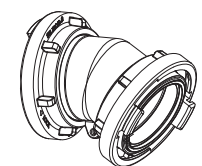
SIDE A

		SIDE A - Female Swivel Rocker NH					
		2.5" Threaded Swivel	3.0" Threaded Swivel	3.5" Threaded Swivel	4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel
SIDE B - Storz Rigid	4.0" Storz Rigid	AH3SP-NJ	AH3SP-NL	AH3SP-NN	AH3SP-NP	AH3SP-NR	AH3SP-NT
	5.0" Storz Rigid	AH3ST-NJ	AH3ST-NL	AH3ST-NN	AH3ST-NP	AH3ST-NR	AH3ST-NT
	6.0" Storz Rigid	AH3SX-NJ	AH3SX-NL	AH3SX-NN	AH3SX-NP	AH3SX-NR	AH3SX-NT



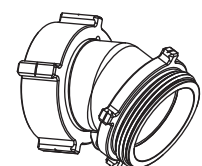
SIDE A

		SIDE A - Female Swivel Handle NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Storz Rigid	4.0" Storz Rigid	AH3HSP-NP	AH3HSP-NR	AH3HSP-NT	AH3HSP-NX
	5.0" Storz Rigid	AH3HST-NP	AH3HST-NR	AH3HST-NT	AH3HST-NX
	6.0" Storz Rigid	AH3HSX-NP	AH3HSX-NR	AH3HSX-NT	AH3HSX-NX



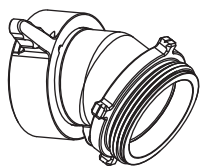
SIDE A

		SIDE A - Storz Swivel		
		4.0" Storz Swivel	5.0" Storz Swivel	6.0" Storz Swivel
SIDE B - Storz Rigid	4.0" Storz Rigid	AH4SP-SP		
	5.0" Storz Rigid	AH4ST-SP	AH4ST-ST	AH4ST-SX
	6.0" Storz Rigid	AH4SX-SP	AH4SX-ST	AH4SX-SX



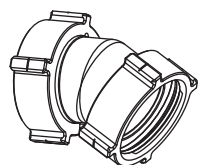
SIDE A

		SIDE A - Male Rigid			
		4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Female Swivel Rocker NH	4.0" Threaded Swivel	AH5NP-NP	AH5NP-NR	AH5NP-NT	AH5NP-NX
	4.5" Threaded Swivel	AH5NR-NP	AH5NR-NR	AH5NR-NT	AH5NR-NX
	5.0" Threaded Swivel	AH5NT-NP	AH5NT-NR	AH5NT-NT	AH5NT-NX



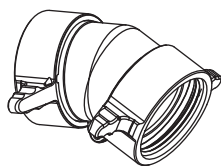
SIDE A

		SIDE A - Male Rigid NH			
		4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel	AH5HNP-NP	AH5HNP-NR	AH5HNP-NT	AH5HNP-NX
	4.5" Threaded Swivel	AH5HNR-NP	AH5HNR-NR	AH5HNR-NT	AH5HNR-NX
	5.0" Threaded Swivel	AH5HNT-NP	AH5HNT-NR	AH5HNT-NT	AH5HNT-NX
	6.0" Threaded Swivel	AH5HNX-NP	AH5HNX-NR	AH5HNX-NT	AH5HNX-NX



SIDE A

		SIDE A - Female Swivel Rocker NH		
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel
SIDE B - Female Swivel Rocker NH	4.0" Threaded Swivel	AH7NP-NP		
	4.5" Threaded Swivel	AH7NR-NP	AH7NR-NR	
	5.0" Threaded Swivel	AH7NT-NP	AH7NT-NR	AH7NT-NT



SIDE A

		SIDE A - Female Swivel Handle NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
SIDE B - Female Swivel Handle NH	4.0" Threaded Swivel	AH7HNP-NP			
	4.5" Threaded Swivel	AH7HNR-NP	AH7HNR-NR		
	5.0" Threaded Swivel	AH7HNT-NP	AH7HNT-NR	AH7HNT-NT	
	6.0" Threaded Swivel	AH7HNX-NP	AH7HNX-NR	AH7HNX-NT	AH7HNX-NX

DETENT ELBOWS

AJ Series - DETENT ELBOWS - Made of all lightweight material. Elbows are cast to a 30-degree down angle to relieve weight of the hose when connected and swivel with multiple detents. Ideal elbow for pumps with built-in intake valves. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. All elbows are hardcoat anodized and powder coated for maximum corrosion protection. Hose couplings are attached using polymer bearing rings, which provide electrical isolation to help prevent galvanic corrosion. Contact TFT customer service for configurations not shown.

Dimensional Maximum

AJ7HNT-NT

12.5 lbs (5.7kg)

10" (25.4cm) Height

11.1" (28.3cm) Width

10" (25.4cm) Depth

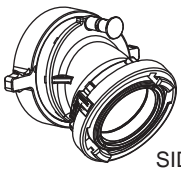
AJ

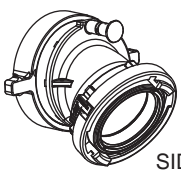


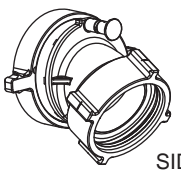
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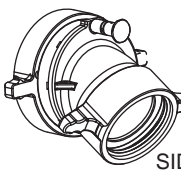
Example: A 5" Storz Rigid to a 4" NH Female

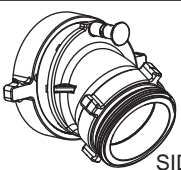
Rocker Lug Swivel would be a AJ3ST-NP

SIDE A - Female Swivel NH	 SIDE B	SIDE B - Storz Rigid		
		4.0" Storz Rigid	5.0" Storz Rigid	6.0" Storz Rigid
	5.0" Threaded Swivel	AJ1SP-NT	AJ1ST-NT	AJ1SX-NT
	6.0" Threaded Swivel	AJ1SP-NX	AJ1ST-NX	AJ1SX-NX

SIDE A - Female Swivel NH	 SIDE B	SIDE B - Storz Swivel		
		4.0" Storz Swivel	5.0" Storz Swivel	6.0" Storz Swivel
	5.0" Threaded Swivel	AJ3SP-NT	AJ3ST-NT	AJ3SX-NT
	6.0" Threaded Swivel	AJ3SP-NX	AJ3ST-NX	AJ3SX-NX

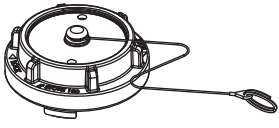
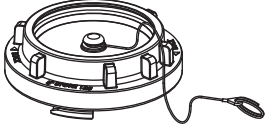
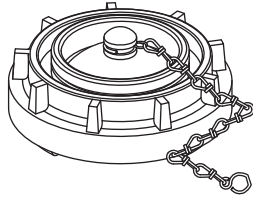
SIDE A - Female Swivel NH	 SIDE B	SIDE B - Female Swivel Rocker NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
	5.0" Threaded Swivel	AJ7NP-NT	AJ7NR-NT	AJ7NT-NT	AJ7NX-NT
	6.0" Threaded Swivel	AJ7NP-NX	AJ7NR-NX	AJ7NT-NX	AJ7NX-NX

SIDE A - Female Swivel NH	 SIDE B	SIDE B - Female Swivel Handle NH			
		4.0" Threaded Swivel	4.5" Threaded Swivel	5.0" Threaded Swivel	6.0" Threaded Swivel
	5.0" Threaded Swivel	AJ7HNP-NT	AJ7HNR-NT	AJ7HNT-NT	AJ7HNX-NT
	6.0" Threaded Swivel	AJ7HNP-NX	AJ7HNR-NX	AJ7HNT-NX	AJ7HNX-NX

SIDE A - Female Swivel NH	 SIDE B	SIDE B - Male Rigid			
		4.0" Threaded Rigid	4.5" Threaded Rigid	5.0" Threaded Rigid	6.0" Threaded Rigid
	5.0" Threaded Swivel	AJ8NP-NT	AJ8NR-NT	AJ8NT-NT	AJ8NX-NT
	6.0" Threaded Swivel	AJ8NP-NX	AJ8NR-NX	AJ8NT-NX	AJ8NX-NX

BLIND CAP SERIES

A0 Series - BLIND CAPS - The A0 series of blind caps are made of lightweight heat treated aluminum. They include an 18" (46cm) lanyard with 1/4" (6mm) eye for easy attachment. Per NFPA 1963, blind caps come with a suction gasket and no locking lever.

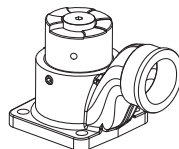
STORZ CAP SERIES		
		
4.0"	5.0"	6.0"
2.7 lb (1.2kg) 2.7" (1.2cm) Height OD: 6.1" (15.5cm)	4.2 lb (1.9kg) 2.7" (6.9cm) Height OD: 7.7" (19.6cm)	5.8 lb (2.6kg) 3" (7.6cm) Height OD: 8.5" (21.6cm)
A01SP	A01ST	A01SX

PRESSURE RELIEF VALVES

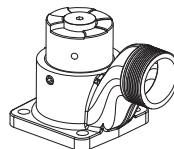
A18 Series - PRESSURE RELIEF VALVE - TFT's Pressure Relief Valve is adjustable from 50 to 200 psi (3 to 14 bar) with easy to see 25 psi (2 bar) increments. The aluminum casting is plastic impregnated, hardcoat anodized, and TFT-powder coat finished inside and out for maximum corrosion protection. Works with Darley, Waterous, or Hale bolt hole patterns for direct use on pump flanges. Also available with 2-inch male pipe thread, 2.5-inch male NH thread, or 2.5-inch Victaulic® connection on discharge. Add 1.5 inches to depth for models A1850 and A1860. For PRV pressures greater than 200 psi, contact TFT customer service.

A18**

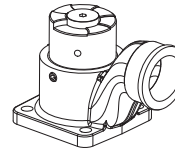
3.0 lb (1.4kg)
4.50" (11.4cm) Height
4.50" (11.4cm) Width
6.50" (16.5cm) Depth



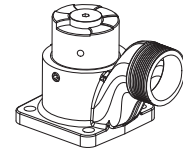
A1810



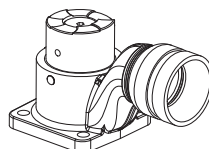
A1820



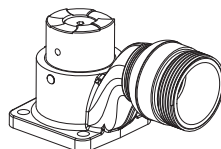
A1830



A1840



A1850

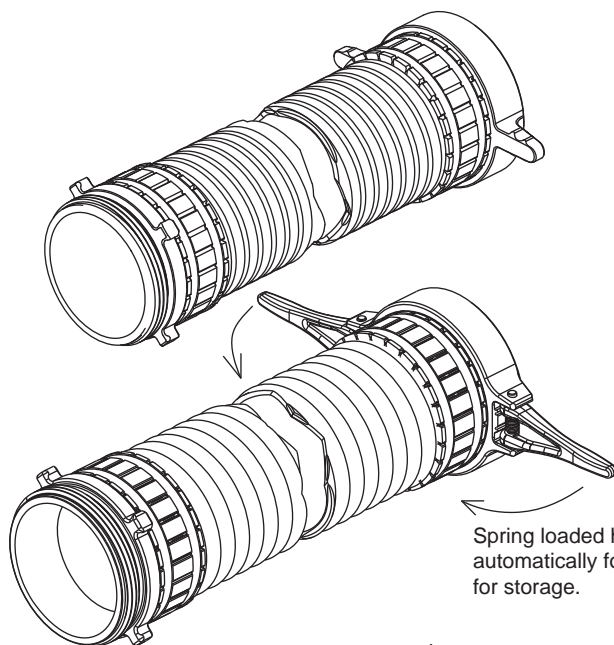


A1860

Model	Hole Pattern	Discharge
A1810	Waterous/Hale (TFT Standard)	Plain
A1820	Waterous/Hale	2 inch Male Pipe (NPT)
A1830	Darley	Plain
A1840	Darley	2 inch Male Pipe (NPT)
A1850	Waterous/Hale	2.5 inch Victaulic Connection
A1860	Waterous/Hale	2.5 inch NH Male

HARD SUCTION HOSE

TFT's LDH Suction Hose is designed for drafting water from dry hydrants, portable water tanks, swimming pools, ponds, lakes, rivers, and other NON-PRESSURIZED water sources. All of TFT's LDH Suction Hoses are preassembled to 10 ft lengths. All couplings rotate easily on TFT's patented coupling system. The clear PVC hose body allows greater visibility of hose fill and remains flexible even at low temperatures, while the rigid black helix provides support and abrasion resistance. TFT's patent pending V-Seal, binding strip and smooth contoured shanks are secured with dual stainless steel bands to prevent leakage and prevent hose damage, even with tight bends. Minimum bend radius is 12.5". Models are available with spring loaded folding handles attached to the end fittings for the ultimate in wrenching convenience. **NOT INTENDED FOR PRESSURE SERVICE.**



Spring loaded handles automatically fold for storage.

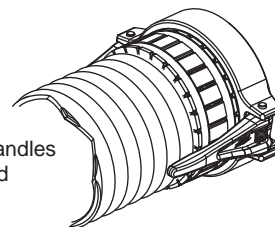
Long Handled Coupling

Item Number	Hose Threads	Hose Diameter	Weight lb (kg)	List Price
AM8HNJ10	2.5" NH	3.0"	13.6 (6.2)	
AM8HNP10	4.0" NH	4.0"	20.0 (9.1)	
AM8HNR10	4.5" NH	5.0"	32.0 (14.5)	
AM8HNT10	5.0" NH	5.0"	32.0 (14.5)	
AM8HNX10	6.0" NH	6.0"	40.0 (18.1)	

Long Handled Coupling With Folding Handles

AM8FNX10	6.0" NH	6.0"	40.0 (18.1)	
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Add \$20.00 to list price for each additional foot added to length.



Rocker Lug Coupling

Item Number	Hose Threads	Hose Diameter	Weight lb (kg)	List Price
AM8NJ10	2.5" NH	3.0"	13.0 (5.9)	
AM8NP10	4.0" NH	4.0"	20.0 (9.1)	
AM8NR10	4.5" NH	5.0"	32.0 (14.5)	
AM8NT10	5.0" NH	5.0"	32.0 (14.5)	

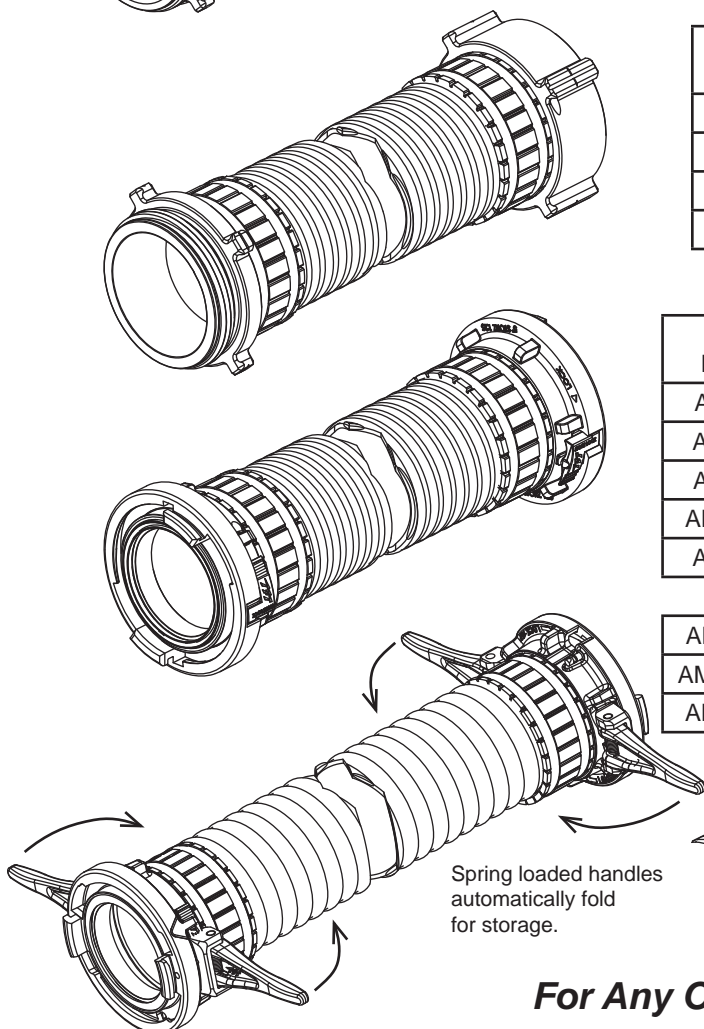
Storz Coupling

Item Number	Coupling Size	Hose Diameter	Weight lb (kg)	List Price
AM4SJ10	2.5" Storz	3.0"	15.0 (8.6)	
AM4SP10	4.0" Storz	4.0"	22.0 (10.0)	
AM4ST10	5.0" Storz	5.0"	42.0 (19.1)	
AM4ST10X	5.0" Storz	6.0"	46.0 (20.9)	
AM4SX10	6.0" Storz	6.0"	45.0 (20.4)	

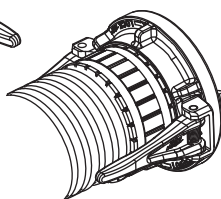
Storz Coupling With Folding Handles

AM4FST10	5.0" Storz	5.0"	44.0 (20.0)	
AM4FST10X	5.0" Storz	6.0"	48.0 (21.8)	
AM4FSX10	6.0" Storz	6.0"	47.0 (21.3)	

Add \$20.00 to list price for each additional foot added to length.

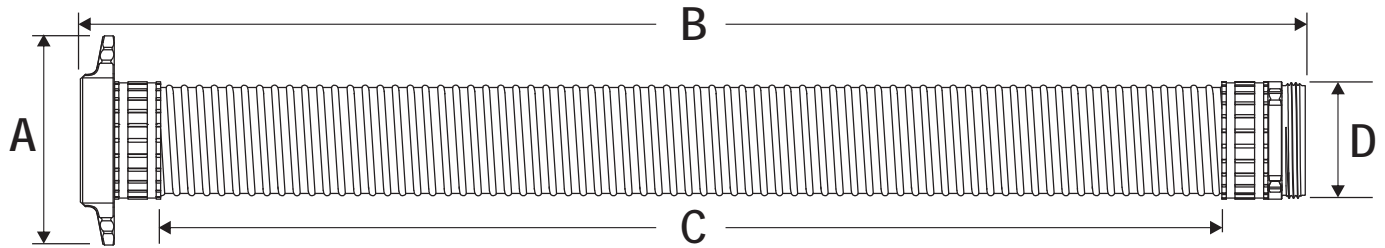


Spring loaded handles automatically fold for storage.

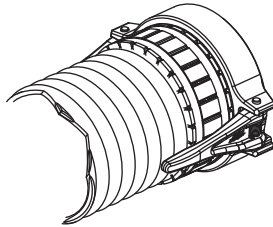


For Any Other Length, Please Call 800-348-2686.

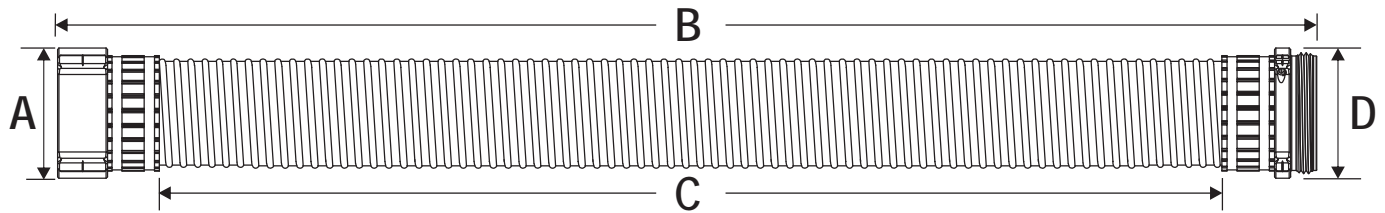
Standard Configuration



Long Handled Coupling

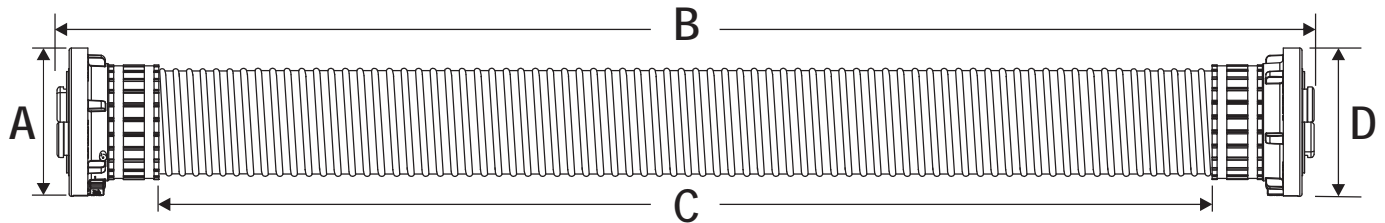


Hose Diameter	Hose Threads	Weight @ 10' Section	A	B (+/- 3")	C (+/- 3")	D	Item Number
3.0"	2.5"NH	13.6 lb	9	120	111-3/8	4-9/16	AM8HNJ10
4.0"	4.0"NH	20 lb	10-5/16	120	110-5/8	7	AM8HNP10
5.0"	4.5"NH	32 lb	11-3/4	120	110-5/8	7	AM8HNR10
5.0"	5.0"NH	32 lb	11-3/5	120	110-11/16	7-7/8	AM8HNT10
6.0"	6.0"NH	40 lb	12-3/4	120	110-11/16	8-1/4	AM8HNX10
Long Handled Coupling With Folding Handles							
6.0"	6.0"NH	40 lb	10	120	110-11/16	8-1/4	AM8HFNX10

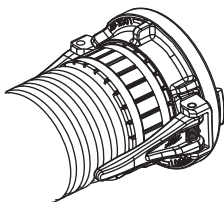


Rocker Lug Coupling

Hose Diameter	Hose Threads	Weight @ 10' Section	A	B (+/- 3")	C (+/- 3")	D	Item Number
3.0"	2.5"NH	13 lb	4-5/16	120	111-3/8	4-9/16	AM8NJ10
4.0"	4.0"NH	20 lb	7	120	110-3/8	7	AM8NP10
5.0"	4.5"NH	32 lb	7-7/8	120	110-3/8	7	AM8NR10
5.0"	5.0"NH	32 lb	7-7/8	120	110-11/16	7-7/8	AM8NT10



Storz



Hose Diameter	Hose Threads	Weight @ 10' Section	A	B (+/- 3")	C (+/- 3")	D	Item Number
3.0"	2.5"	15 lb	4-11/16	120	108.25	4-11/16	AM4SJ10
4.0"	4.0"	22 lb	6-3/16	120	110	6-3/16	AM4SP10
5.0"	5.0"	42 lb	7-3/4	120	110	7-3/4	AM4ST10
5.0"	6.0"	46 lb	7-3/4	120	107.25	7-3/4	AM4ST10X
6.0"	6.0"	45 lb	8-1/2	120	108	8-1/2	AM4SX10
Storz With Folding Handles							
5.0"	5.0"	44 lb	8-3/16	120	110	8-3/16	AM4FST10
5.0"	6.0"	48 lb	8-3/16	120	107.25	8-3/16	AM4FST10X
6.0"	6.0"	47 lb	9-5/8	120	108	9-5/8	AM4FSX10

For Any Other Length, Please Call 800-348-2686.

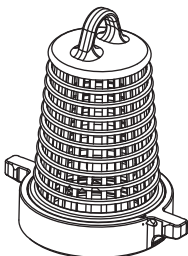
HARD SUCTION STRAINER

A02HNX - JUMBO BARREL STRAINER 6.0"NH - Heavy duty barrel strainer gives maximum flow capability. The impact resistant polymer won't dent when dropped and won't corrode even in contaminated water. The wavy straining pattern resists debris sucking flat against the holes. 240 holes total 48 square inches of flow area. An oversize loop makes tying off the strainer easy. The coupling is made from hard anodized aluminum and rotates easily on a polymer bearing ring. 6.0"NH (150 mm) female short handle coupling is standard.

A02NJ - JUMBO BLACK BARREL STRAINER 2.5"NH - Same as above but with 2.5"NH (65mm) coupling.

A02NP - JUMBO BLACK BARREL STRAINER 4.0"NH - Same as above but with 4.0"NH (100mm) coupling.

A02HNT - JUMBO BLACK BARREL STRAINER 5.0"NH - Same as above but with 5.0"NH (125mm) coupling. A02NP



HARD SUCTION STRAINER			
2.5" (65mm)	4" (100MM)	5" (125mm)	6" (150mm)
4.0 lb (1.8kg) 12" (305mm) Length 7" (178mm) Diameter	4.0 lb (1.8kg) 12" (305mm) Length 7" (178mm) Diameter	4.5 lb (2.0kg) 12" (305mm) Length 8" (200mm) Diameter	4.0 lb (1.8kg) 12" (305mm) Length 8" (200mm) Diameter
A02NJ	A02NP	A02HNT	A02HNX
A02NJ-Y	A02NP-Y	A02HNT-Y	A02HNX-Y

A02NJ-Y - JUMBO YELLOW BARREL STRAINER 2.5"NH - Same as above but with 2.5"NH (65mm) coupling.

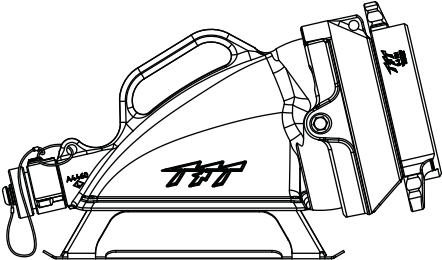
A02NP-Y - JUMBO YELLOW BARREL STRAINER 4.0"NH - Same as above but with 4.0"NH (100mm) coupling.

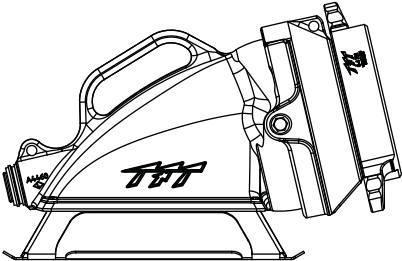
A02HNT-Y - JUMBO YELLOW BARREL STRAINER 5.0"NH - Same as above but with 5.0"NH (125mm) coupling.

A02HNX-Y - JUMBO YELLOW BARREL STRAINER 6.0"NH - Same as above but with 6.0"NH (100mm) coupling.

LOW LEVEL STRAINER

High volume low-level strainer is made of hard anodized and powder-coated aluminum. Clog-resistant stainless steel filter has over twice as much flow area as a 6" hose. This keeps friction loss down to 0.5 psi (1" Hg) at 1500 gpm and reduces the potential for air vortices to form as water sinks towards the 2.5" minimum usable depth. Oversized sealed ball pivot allows 45° range of hose angle without constricting the flow path. Optional Jet Siphon with 1.5" female hose thread substantially increases suction lift capability. The Jet Siphon is also useful for tank shuttle operations, pump priming and dewatering without the need for a trash pump.

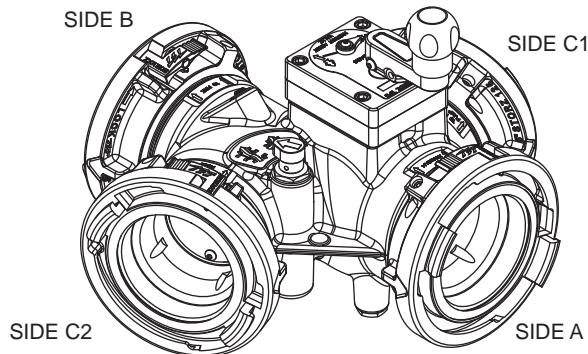
LOW LEVEL STRAINER - JET SIPHON 	4" (100mm) Threaded 21.7 lb (9.9kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 22.5" (57.2cm) depth	4.5" (115mm) Threaded 21.3 lb (9.6kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 21.9" (55.6cm) depth	5" (125mm) Threaded 21.3 lb (9.6kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 21.9" (55.6cm) depth
	A03NP-JET	A03HNR-JET	A03HNT-JET
	6" (150mm) Threaded 20.9 lb (9.5kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 21.3" (54.1cm) depth	5" Storz 22.6 lb (10.3 kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 22.7" (55.7cm) depth	6" Storz 27.0 lb (12.2kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 23.9" (60.6cm) depth
	A03HNX-JET	A03ST-JET	A03SX-JET

LOW LEVEL STRAINER - NO JET SIPHON 	4" (100mm) Threaded 20.5 lb (9.3kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 20.4" (51.8cm) depth	4.5" (115mm) Threaded 20.2 lb (9.2kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 19.7" (50.2cm) depth	5" (125mm) Threaded 20.2 lb (9.2kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 19.7" (50.2cm) depth
	A03NP	A03HNR	A03HNT
	6" (150mm) Threaded 19.8 lb (9.0kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 19.2" (48.7cm) depth	5" Storz 21.5 lb (9.8kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 20.6" (52.3cm) depth	6" Storz 26.0 lb (11.8kg) 12.1" (30.7cm) height 14.9" (37.8cm) width 21.7" (55.2cm) depth
	A03HNX	A03ST	A03SX

TFT's Oasis Hydrant Assist Valve is a versatile valve that can be used as a hydrant booster, as a gated wye, or for inline pumping during relay operations. In hydrant boosting operation, the valve is first connected to the hydrant and to the intake supply line on the first pumper. Inlet and outlet supply lines on a boost pumper are then connected to the valve to draw water directly from the hydrant connection and increase pressure/flow to the first pumper. A clapper valve with position indicator provides uninterrupted water flow to the fire when transitioning to boost mode, and in the event of boost pump failure. Two unique valve position indicators tell the operator if the ball and clapper valves are open or closed. Designed for use with 3.5, 4, 4.5 or 5 inch (89, 100, 115 or 125 mm) hose. Stainless steel half ball valve provides corrosion protection. Maximum operating pressure is 250 psi (17 bar). Meets 900 psi (62 bar) hydrostatic strength test. The aluminum castings are hardcoat anodized inside and out, and TFT powder coat finished on the outside.

Dimensional Maximum AR*****

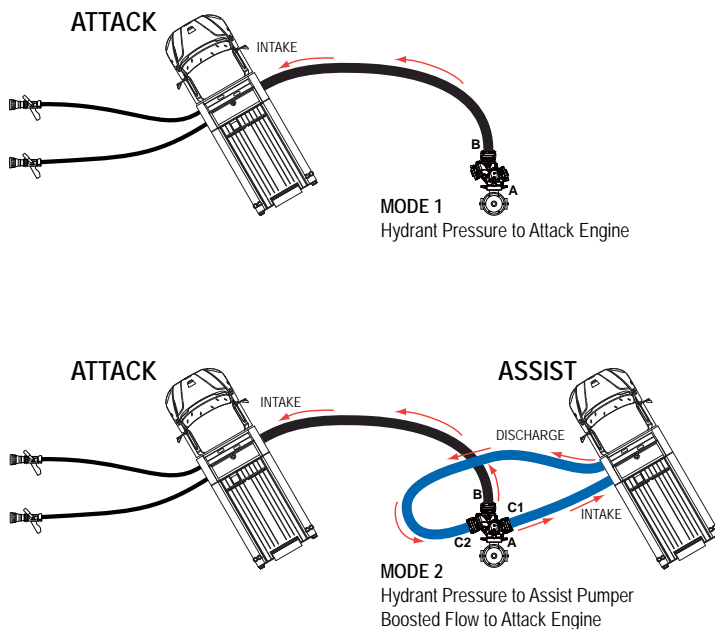
35.0 lbs (15.9kg)
13.50" (34.3cm) Height
16.50" (41.9cm) Width
16.00" (40.6cm) Depth



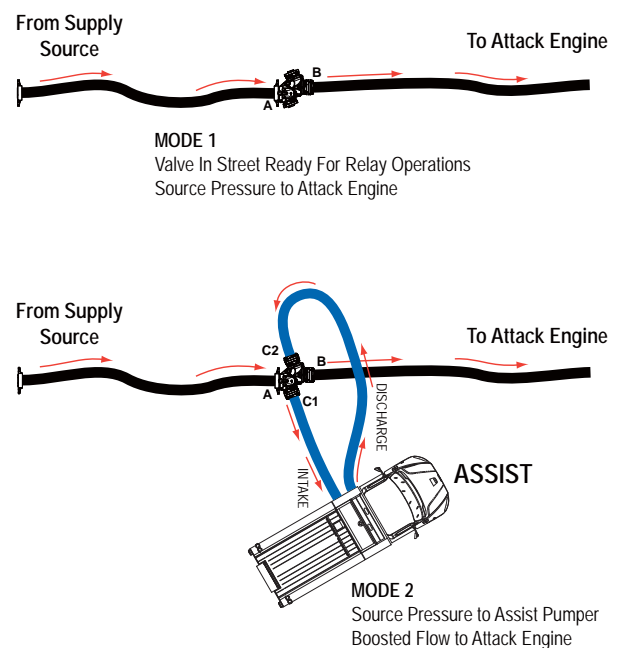
SIDE A INLET FROM HYDRANT		SIDE B OUTLET TO ATTACK		SIDE C1 OUTLET TO BOOST		SIDE C2 BOOSTED INLET	
Style	Size	Style	Size	Style	Size	Style	Size
1) Storz Rigid	N) 3.5"	1) Storz Rigid	N) 3.5"	1) Storz Rigid	N) 3.5"	1) Storz Rigid	N) 3.5"
2) Storz Swivel	P) 4"	2) Storz Swivel	P) 4"	2) Storz Swivel	P) 4"	2) Storz Swivel	P) 4"
3) F Rocker Lug Swivel	R) 4.5"	3) F Rocker Lug Swivel	R) 4.5"	3) F Rocker Lug Swivel	R) 4.5"	3) F Rocker Lug Swivel	R) 4.5"
5) F Long Handle Swivel	T) 5"	5) F Long Handle Swivel	T) 5"	5) F Long Handle Swivel	T) 5"	5) F Long Handle Swivel	T) 5"
7) M Rigid		7) M Rigid		7) M Rigid		7) M Rigid	

F = Female M = Male

Valve On Hydrant Used For Hydrant Boosting



Valve In Street Used For In-Line Relay Operations



FIELD REPAIR KITS

TWISTER, QUADRAFOG, QUADRACUP & THUNDERFOG SERIES

D10-KIT	D TWISTER REPAIR KIT	\$24.00
D75-KIT	D VALVE REPAIR KIT	\$20.00
D75-HDL	D75 HANDLE KIT	\$26.00
D75-HRK	HANDLE & VALVE KIT	\$52.00
F20-KIT	F TWISTER REPAIR KIT	\$38.00
F100-KIT	VALVE FIELD REPAIR	\$21.00
F100-HDL	F100 HANDLE KIT	\$26.00
F100-HRK	HANDLE & VALVE KIT	\$52.00
F140-KIT	VALVE FIELD REPAIR	\$22.00
F140-HDL	F140 HANDLE KIT	\$26.00
F140-HRK	HANDLE & VALVE KIT	\$52.00

BUBBLECUP SERIES

D285-KIT	BUBBLECUP REPAIR KIT	\$70.00
F685-KIT	BUBBLECUP REPAIR KIT	\$80.00
F675-KIT	QUADRACUP HEAD REPAIR KIT	\$134.00

ULTIMATIC SERIES - Manufactured After 1983

B950-KIT	VALVE HANDLE REPAIR KIT	\$62.50
B955-KIT	HANDLE REPAIR KIT	\$48.50
B960-KIT	VALVE SEAL OVERHAUL KIT	\$9.50
B880-KIT	SHAPER REPAIR KIT	\$70.00
B935-KIT	ACTUATOR KIT 12-24VDC	\$665.00
B936-KIT	ACTUATOR KIT 24-36VDC	\$665.00

MIDRANGE SERIES

HMD830-KIT	DUAL PRESSURE KNOB 100 PSI	\$34.00
HMD830-75KIT	DUAL PRESSURE KNOB 75 PSI	\$34.00
HM840-KIT	100 PSI CONTROL UNIT	\$111.00
HM840-75-KIT	75 PSI CONTROL UNIT	\$111.00
HMD840-KIT	DUAL PRESSURE CONTROL UNIT 100/55 PSI	\$160.00
HM997N-KIT	1.5 NH COUPLING KIT	\$48.50
HM997I-KIT	1.5 IPT COUPLING KIT	\$48.50
HM590-KIT	STANDARD SHUT-OFF VALVE KIT	\$10.50
HM592-KIT	TIP ONLY W/SHUT-OFF VALVE KIT	\$17.50
HM950-KIT	BAIL HANDLE	\$58.50
HM880-KIT	STREAM SHAPER	\$48.50

HANDLINE SERIES

(manufactured after 1983 to current)

H994I-KIT	1.5 NPSH COUPLING KIT	\$80.00
H994N-KIT	1.5 NH COUPLING KIT	\$82.50
H880-KIT	SHAPER REPAIR KIT	\$69.00
H960-KIT	VALVE SEAL KIT	\$8.50
P920-KIT	PLAYPIPE HANDLE/HDW KIT	\$69.00
HX950-KIT	HANDLE REPAIR KIT	\$43.00

(manufactured after Jan 01, 2004)

HX840-75-KIT	PRESSURE CONTROL UNIT 75 PSI	\$150.00
HX840-KIT	PRESSURE CONTROL UNIT 100 PSI	\$150.00
HXD830-KIT	DUAL PRESSURE KNOB 100 PSI	\$58.50
HXD830-75KIT	DUAL PRESSURE KNOB 75 PSI	\$58.50
HXD840-KIT	DUAL PRESSURE CONTROL UNIT 100/55 PSI	\$133.00
HXDL840-KIT	DUAL PRESSURE CONTROL UNIT 75/45 PSI	\$133.00

HANDLINE SERIES UPGRADE KITS (manufactured between 1985 to 2003)

Single Pressure		
HX-100-KIT	95-300 GPM @ 100 PSI	\$615.00
HX-75-KIT	95-250 GPM @ 75 PSI	\$615.00
Dual Pressure		
HXD-100-KIT	95-300 GPM @ 100/55 PSI (dual pressure)	\$615.00
HXD-75-KIT	95-250 GPM @ 75/45 PSI (dual pressure)	\$615.00

EXTEND-A-GUN SERIES

XG840-KIT	MANUAL EXTEND-A-GUN REED SWITCH	\$12.50
XGA840-KIT	RC3 EXTEND-A-GUN REED SWITCH (made before June 2009)	\$12.50
XGA841-KIT	RC4 EXTEND-A-GUN REED SWITCH (made before June 2009)	\$12.50
XGE695-KIT	RC EXTEND-A-GUN REED SWITCH (made after June 2009)	\$25.00

HANDLINE SERIES

(manufactured between Jan 1, 1983 and Dec 31, 2003)

TH503	COMPLETE FRONT END JIG	\$ 180.00
TH590	VALVE PLUG PUSHER	\$ 60.00
TH591	VALVE PLUG REMOVER	\$ 60.00
TH595	CONTROL PLUG WRENCH	\$ 45.00
TH640	VALVE DISC CONE	\$ 30.00

(manufactured after Jan 1, 1983 to current)

TH620	VALVE HANDLE JIG	\$ 45.00
TH660	SLIDER JIG - HANDLINE/DUAL-FORCE	\$ 30.00
TH840-KIT	CONTROL UNIT CHECK STICKS (2PC)	\$ 25.75

ULTIMATIC SERIES

Manufactured After 1983

TB502	STREAM SHAPER REMOVAL JIG	\$ 100.00
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MIDRANGE SERIES

THM-500	SHAPER REMOVAL CLAMP	\$120.00
THM-561	SMALLEY RING REMOVAL	\$10.00

LDH SERVICE KITS

A1520-KIT	BIV VALVE SEAT KIT	\$21.00
A1082-KIT	JUMBO BIV VALVE SEAT KIT	\$26.00
A1621-KIT	VENT DRAIN KIT - LEVER STYLE	\$103.00
A1633-KIT	PARALLEL SHAFT GEAR BOX KIT	\$300.00
AX1690-KIT	BIV RC UPGRADE	\$925.00
A4173-KIT	4" STORZ LOCK LEVER	\$37.50
A4176-KIT	5" STORZ LOCK LEVER	\$37.50
THA401	RETAINING STRIP REMOVAL TOOL	\$16.00
AM-BAND-KIT	SUCTION HOSE REPAIR KIT	\$265.00
A1410-KIT	SUCTION SCREEN 5"	\$170.00
A1411-KIT	SUCTION SCREEN 6"	\$175.00

LUBRICANTS

VSA-101	DOW 112 GREASE 5.3oz tube	\$ 17.19
VSA-110	BREAKFREE 4oz Aerosol	\$ 5.00
VSA-112	BREAKFREE 12oz Aerosol	\$ 7.50
H-LUBE-KIT	HANDLINE LUBRICATION KIT	\$ 39.00

TORNADO ELECTRIC REMOTE VALVE

Y7005	VALVE REPAIR KIT (2.0" Valve)	\$135.00
Y7006	VALVE REPAIR KIT (2.5" Valve)	\$151.25
Y7007	VALVE REPAIR KIT (3.0" Valve)	\$220.50
Y7008	VALVE REPAIR KIT (1.5" Valve)	\$53.50

2.5" GATED WYE

AY175-KIT	GAUGE KIT FOR AY SERIES 2.5" GATED WYE	\$58.00
A1621-KIT	VENT DRAIN KIT - LEVER STYLE	\$103.00

BLITZFIRE

XX482-KIT	BLITZFIRE SPIKE REPAIR KIT	\$21.00
XX830-KIT	CLUTCH ASSEMBLY	\$150.00
XX910-KIT	BLITZFIRE TRIP MECHANISM UPGRADE KIT	\$125.00

EDUCTOR

UE960-KIT	CAM LOCK ADAPTOR	\$18.00
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PISTOL GRIP KITS

Colored Pistol Grips for TFT Nozzles

All TFT nozzles delivered after 03/01/01 have the ability to have colored pistol grips added. For nozzles manufactured before this date, contact TFT's service department for availability. When a nozzle is ordered with a pistol grip, it will be shipped from TFT with a black grip and the offer to provide a free colored grip of your choice when the warranty card is filled out and mailed in, or if the warranty information is filled out on-line at www.tft.com. Kits can also be ordered for adding a grip to a non-grip model for a nominal fee.

HM692BLK-KIT	BLACK GRIP	\$16.50
HM692BLU-KIT	BLUE GRIP	\$16.50
HM692GRN-KIT	GREEN GRIP	\$16.50
HM692GRY-KIT	GRAY GRIP	\$16.50
HM692ORG-KIT	ORANGE GRIP	\$16.50
HM692PNK-KIT	PINK GRIP	\$16.50
HM692PPL-KIT	PURPLE GRIP	\$16.50
HM692RED-KIT	RED GRIP	\$16.50
HM692TAN-KIT	TAN GRIP	\$16.50
HM692WHT-KIT	WHITE GRIP	\$16.50
HM692YEL-KIT	YELLOW GRIP	\$16.50

VIT

Integral Smooth Bore Orifice Replacement

	Vit Ball Valve Outlet	
HVIT1-KIT	7/8"	\$125.00
HVIT2-KIT	15/16"	\$125.00
HVIT3-KIT	1"	\$125.00
HVIT4-KIT	1-1/8"	\$125.00
HVIT5-KIT	1-1/4"	\$125.00
HVIT6-KIT	1-3/8"	\$125.00

24 HOUR TURNAROUND SERVICE TIME.

From the time we receive your product until it's shipped back to you, service time is usually 24 hours.

WE PAY RETURN FREIGHT

on your product if it is a "no charge" repair.

All factory serviced products are fully wet-tested to assure maximum performance. When your product comes in for service, we check every part and function before returning it to you.

UNEQUALLED 5 YEAR WARRANTY TFT shall have no obligation under this limited warranty if the equipment is, or has been, misused or neglected (including failure to provide reasonable maintenance) or if there have been accidents to the equipment or if repaired or altered by someone else. Unless serviced under the direction of a representative of Task Force Tips, Inc.

Go to the customer service section for product repair and warranty information. Contact TFT's Service Department at 1-800-348-2686 for complete information on servicing TFT products.

COLORED HANDLE KITS

Colored Valve Handle Covers

All nozzles delivered after 09/01/09 have the ability to have colored valve handles added. Colored handle covers for TFT series of nozzles are available at no charge when the warranty card is filled out and mailed in, or if the warranty information is filled out on-line at www.tft.com. The following colors are available and for a nominal fee can be custom laser engraved. For additional information on this option, contact TFT customer service.

HM925BLK-KIT	BLACK COVER	\$6.50
HM925BLU-KIT	BLUE COVER	\$6.50
HM925GRN-KIT	GREEN COVER	\$6.50
HM925GRY-KIT	GRAY COVER	\$6.50
HM925ORG-KIT	ORANGE COVER	\$6.50
HM925PNK-KIT	PINK COVER	\$6.50
HM925PPL-KIT	PURPLE COVER	\$6.50
HM925RED-KIT	RED COVER	\$6.50
HM925RW-KIT	RED & WHITE COVER	\$6.50
HM925TAN-KIT	TAN COVER	\$6.50
HM925WHT-KIT	WHITE COVER	\$6.50
HM925YEL-KIT	YELLOW COVER	\$6.50

INSTRUCTION MANUALS

(instruction manuals available at no charge)

All Manuals are available on line at www.tft.com or call customer service at 1-800-348-2686.

STANDARD FIRE HOSE THREADS

Size	ODM	TPI	Size	ODM	TPI	Size	ODM	TPI	Size	ODM	TPI
Nat'l. Hose Thread (NHT)			Eastern Hose Thread			NY Corp. Thread			Quebec Standard Thread (QST)		
.75	1.3750	8	.75	1.0781	11	1.5	2.093	11	2.5	3.046	7
1	1.3750	8	1	1.4219	11	2	2.547	11	Alberta Mutual Aid Thread (AMA)		
1.25	1.6718	9	1.25	1.6875	11.5	2.5	3.000	8			
1.5	1.9900	9	1.5	2.1250	11	Chicago FD Thread			2.5	2.990	8
2	2.5156	8	2	2.6719	7.5	1	1.375	8	British Columbia (BCT)		
2.5	3.0686	7.5	2.5	3.0000	8	1.5	1.933	11.5	2.5	3.000	8
.3	3.6239	6	Pacific Coast Thread			2.5	2.990	7.5	Western Canada Fire Underwriters Thread		
3.5	4.2439	6	.75	1.0625	11	3.5	4.052	8			
4	5.000	4	1	1.3125	11.5	4	5.000	4	2.5	3.250	6
4.5	5.7609	4	1.25	1.8600	11	4.5	5.7609	4	Buffalo, NY Thread		
5	6.260	4	1.5	2.1000	11	5	6.260	4	2.5	3.065	8
6	7.025	4	2	2.5500	10	Chicago Hose Thread			2.5	3.058	6
Nat'l. Pipe Straight Hose Thread (NPSH)			2.5	3.0350	7.5	.75	1.0810	11.5	Cincinnati, OH Thread		
			NYFD Thread			1	1.2951	11.5	2.5	3.0781	8
.75	1.0353	14	1	1.660	8	1.25	1.7050	11.5	Cleveland, OH & Omaha, NE Thread		
1	1.2951	11.5	1.5	2.100	8	1.5	1.9460	11.5			
1.25	1.6399	11.5	2	2.530	8	2	2.5220	8	2.5	3.0430	7
1.5	1.8788	11.5	2.5	3.030	8	2	3.0430	7	Detroit, MI Thread		
2	2.3528	11.5	3	3.630	8	Standard Chemical Thread			2.5	3.125	7.5
2.5	2.843	8	3.5	4.070	8	.75	1.375	8	Pittsburgh, PA Thread		
3	3.4700	8	4	4.610	8	Canadian Standard Assoc. Thread (CSA)			2.5	3.0625	6
3.5	3.9700	8	4.5	5.800	4				2.5	3.000	8
4	4.4700	8	Underwriter Tip Thread			1.5	1.8788	11.5	Toledo, OH Thread		
4.5	4.9700	8	1.5	2.1875	12	2.5	3.1250	5			

FLANGE SPECIFICATIONS

ANSI Flange Size	2.5"-150#	3.0"-150#	3.0"-300#	4.0"-150#	4.0"-300#	6.0"-150#	6.0"-300#
Diam. of Flange	7.00"	7.50"	8.25"	9.00"	10.00"	11.00"	12.50"
Bolt Circle Diam.	5.50"	6.00"	6.625"	7.50"	7.875"	9.50"	10.625"
Bolt Hole Diam.	.750"	.750"	.875"	.750"	.875"	.875"	.875"
No. Bolt Holes	4	4	8	8	8	8	12
Bolt Diameter	.625"	.625"	.750"	.625"	.750"	.750"	.750"

SUCTION HOSE THREADS

Size	ODM	TPI	Size	ODM	TPI
American LaFrance Thread			Seagrave Thread		
4.0	5.085	4	4.0	5.000	4
4.5	5.750	4	4.5	5.750	4
5	6.150	4	5	6.250	4
6	7.000	4	6	7.000	4
Mack Thread			Hale Fire Pump Thread		
4.0	4.999	4	4.0	5.000	4
4.5	5.7609	4	4.5	5.7609	4
5	6.230	4	5	6.250	4
Ward LaFrance Thread					
Maxim Thread			4.0	5.000	4
4.0	5.000	4	4.5	5.750	4
4.5	5.750	4	5	6.250	4
5	6.250	4	6	7.000	4
6	7.000	4	Waterous Fire Pump Thread		
Pirsch Thread			4.0	5.0109	4
4.0	5.000	4	4.5	5.7609	4
4.5	5.750	4	5	6.260	4
5	6.250	4	6		
6	7.000	4			

ABBREVIATION DEFINITIONS

ODM – outside diameter of male
TPI – threads per inch

THREAD DESIGNATIONS

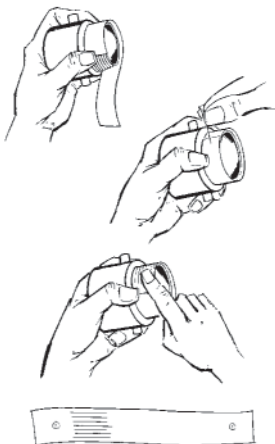
National Hose – NH or NHT; also called National Standard Thread (NST)
National Pipe Straight Hose – NPSH; also called Straight Iron Pipe Thread (SIPT)
National Pipe Thread – NPT; also called Tapered Iron Pipe Thread (TIPT)
British Standard Parallel Pipe – BSPP
British Standard Pipe Taper – BSP
Please call customer service at 800 348-2686 to check availability of a specific thread on your product.

METHODS FOR DETERMINING THREAD DIMENSIONS

If Leaf Thread Gauge and Thread Caliper are not available; or sample cannot be sent, the following method may be used to obtain the needed information about threads.

- 1) Cut a strip of paper about 1" wide and long enough to completely encircle the male thread.
- 2) Wrap this paper snugly around the male thread making sure it is against the shoulder all the way around.
- 3) Pierce the paper with a pin at some point where the paper overlaps.
- 4) Press firmly against the threads with finger. This impression in the paper is used to determine the threads per inch.
- 5) Remove strip and circle pin holes with pencil.
- 6) The distance between the pin holes divided by 3.1416 equals the ODM (outside diameter of the male).

Both the ODM and the threads per inch are needed for ordering purposes. Unified thread form supplied unless otherwise specified.



Gallons Per Minute (gpm) Pounds Reaction Force (Lb_r)

Smooth Bore Nozzle Discharge and Reaction Chart

Diameter	3/8"	1/2"	5/8"	3/4"	7/8"	15/16"	1"	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-3/4"	2"	2-1/4"	2-1/2"	2-3/4"	
40	26	47	73	106	144	165	188	238	294	355	423	575	752	951	1174	1421	gpm
	9	16	25	35	48	55	63	79	98	119	141	192	251	318	393	475	Lb _r
45	28	50	78	112	153	175	199	252	311	377	448	610	797	1009	1246	1507	gpm
	10	18	28	40	54	62	71	89	110	134	159	216	283	358	442	534	Lb _r
50	30	53	82	118	161	185	210	266	328	397	473	643	840	1064	1313	1589	gpm
	11	20	31	44	60	69	79	99	123	148	177	240	314	397	491	594	Lb _r
55	31	55	86	124	169	194	220	279	344	417	496	675	881	1115	1377	1666	gpm
	12	22	34	49	66	76	86	109	135	163	194	264	345	437	540	653	Lb _r
60	32	58	90	129	176	202	230	291	360	435	518	705	921	1165	1438	1740	gpm
	13	24	37	53	72	83	94	119	147	178	212	288	377	477	589	712	Lb _r
65	34	60	94	135	183	211	240	303	374	453	539	734	958	1213	1497	1811	gpm
	14	26	40	57	78	90	102	129	159	193	230	313	408	517	638	772	Lb _r
70	35	62	97	140	190	218	249	315	388	470	559	761	994	1258	1554	1880	gpm
	15	27	43	62	84	97	110	139	172	208	247	337	440	556	687	831	Lb _r
75	36	64	101	145	197	226	257	326	402	486	579	788	1029	1303	1608	1946	gpm
	17	29	46	66	90	103	118	149	184	223	265	361	471	596	736	890	Lb _r
80	37	66	104	149	203	234	266	336	415	502	598	814	1063	1345	1661	2010	gpm
	18	31	49	71	96	110	126	159	196	237	283	385	502	636	785	950	Lb _r
85	39	68	107	154	210	241	274	347	428	518	616	839	1096	1387	1712	2071	gpm
	19	33	52	75	102	117	133	169	209	252	300	409	534	676	834	1009	Lb _r
90	40	70	110	159	216	248	282	357	440	533	634	863	1127	1427	1762	2132	gpm
	20	35	55	79	108	124	141	179	221	267	318	433	565	715	883	1069	Lb _r
95	41	72	113	163	222	255	290	366	452	547	652	887	1158	1466	1810	2190	gpm
	21	37	58	84	114	131	149	189	233	282	336	457	597	755	932	1128	Lb _r
100	42	74	116	167	227	261	297	376	464	562	668	910	1188	1504	1857	2247	gpm
	22	39	61	88	120	138	157	199	245	297	353	481	628	795	981	1187	Lb _r
105	43	76	119	171	233	268	304	385	476	576	685	932	1218	1541	1903	2302	gpm
	23	41	64	93	126	145	165	209	258	312	371	505	659	835	1030	1247	Lb _r
110	44	78	122	175	239	274	312	394	487	589	701	954	1246	1577	1948	2356	gpm
	24	43	67	97	132	152	173	219	270	327	389	529	691	874	1079	1306	Lb _r
115	45	80	124	179	244	280	319	403	498	602	717	976	1274	1613	1991	2409	gpm
	25	45	71	102	138	159	181	229	282	341	406	553	722	914	1128	1365	Lb _r
120	46	81	127	183	249	286	325	412	509	615	732	997	1302	1648	2034	2461	gpm
	26	47	74	106	144	166	188	238	294	356	424	577	754	954	1178	1425	Lb _r
125	47	83	130	187	254	292	332	420	519	628	747	1017	1329	1682	2076	2512	gpm
	28	49	77	110	150	172	196	248	307	371	442	601	785	994	1227	1484	Lb _r
130	48	85	132	191	259	298	339	429	529	640	762	1037	1355	1715	2117	2562	gpm
	29	51	80	115	156	179	204	258	319	386	459	625	816	1033	1276	1544	Lb _r
135	49	86	135	194	264	303	345	437	539	653	777	1057	1381	1748	2157	2611	gpm
	30	53	83	119	162	186	212	268	331	401	477	649	848	1073	1325	1603	Lb _r
140	49	88	137	198	269	309	352	445	549	665	791	1077	1406	1780	2197	2658	gpm
	31	55	86	124	168	193	220	278	343	416	495	673	879	1113	1374	1662	Lb _r
145	50	89	140	201	274	314	358	453	559	676	805	1096	1431	1811	2236	2706	gpm
	32	57	89	128	174	200	228	288	356	430	512	697	911	1152	1423	1722	Lb _r
150	51	91	142	205	279	320	364	461	569	688	819	1114	1455	1842	2274	2752	gpm
	33	59	92	132	180	207	236	298	368	445	530	721	942	1192	1472	1781	Lb _r
175	55	98	154	221	301	345	393	497	614	743	884	1204	1572	1990	2456	2972	gpm
	39	69	107	155	210	241	275	348	429	519	618	841	1099	1391	1717	2078	Lb _r
200	59	105	164	236	322	369	420	532	657	794	945	1287	1681	2127	2626	3177	gpm
	44	79	123	177	240	276	314	397	491	594	707	962	1256	1590	1963	2375	Lb _r

National Fire Protection Association (NFPA) Fire Protection Handbook - 17th Edition
 International Fire Service Training Association (IFSTA) Fire Protection Publications -
 Fire Stream Practices - 7th Edition
 Nozzle Pressure Measured With Pitot Gauge, Reaction Force Measured In Pounds

Smooth Bore Reaction Formula: $NR = 1.57D^2NP$
 Smooth Bore Discharge Formula: $GPM = 29.7D^2 \sqrt{NP}$
 D = Bore Diameter in inches NP = Nozzle Pressure in PSI

CRITICAL APPLICATION RATES

COMMON ITEMS	AREA IN SQ FT (LXW)	INVOLVEMENT			
		100%	75%	50%	25%
Dumpster	24 (6x4)	8	6	4	2
Car Fire	‡ Full Size	125	125	125	125
Bedroom	225 (15x15)	75	56	38	19
Living Room	300 (15x20)	100	75	50	25
Multiple Bedrooms (2)	450 (15x15)x2	150	113	75	38
Detached Garage	574 (24x24)	192	144	96	48
Mobile Home (house trailer)	980 (14x70)	327	245	164	82
Tax Payer First Floor (downtown store front)	1000 (20x50)	333	250	167	83
Small Ranch House	1125 (45x25)	375	281	188	94
Large 2 Story House (1 Floor)	1600 (40x40)	533	400	267	133
Large 2 Story House (2 Floors)	3200 (40x40)x2	1,066	800	533	267
Pole Barn	3000 (40x50)x1.5*	1,000	750	500	250
Warehouse	40,000 (100x200)x2*	13,333	10,000	6,667	3,333

* Additional Height Factor

GPM FLOW REQUIRED

‡ Minimum application for a car fire is 125 gpm, due to fuel hazards involved.

This water application chart has been designed to provide a quick means of calculating an approximation of the initial flow rates needed. Actual flow rates required will vary depending on the conditions at the scene. This water application chart is not designed to, nor can it, provide the user with the definitive requirements to address a particular fire fighting situation. The selection of application devices and application methods for the fire hazard being addressed is the responsibility of the fire fighting professional.

Quick fireground formula: NFA, National Fire Academy water application rates for room & contents.

$$\frac{L \times W}{3} = \text{GPM}$$

L = Length in feet

W = Width in feet

GPM = Water flow rate required to black out the fire in approximately ten seconds, when properly applied.

This assumes approximate standard combustible contents and heights of 10 feet per story. Adjust for % of involvement, and number of stories involved. Be prepared to increase flow to match 100% involvement, if necessary. Add 25% for exposures.

Ref: IFSTA Fire Protection Publications Fire Stream Practices 7th Edition.

PUMP DISCHARGE PRESSURE CHARTS

1.75" Hose Flow (GPM)	75 PSI Nozzle Pressure Length Of Hose			100 PSI Nozzle Pressure Length Of Hose		
	150 FT (PSI)	200 FT (PSI)	250 FT (PSI)	150 FT (PSI)	200 FT (PSI)	250 FT (PSI)
60	83	86	89	108	111	114
95	96	103	110	121	128	135
125	111	123	136	136	148	161
150	127	145	162	152	170	187
175	146	170	194	171	195	219
200	168	199	230	193	224	255
225	193	232	271	218	257	296
250	220	269	—	245	294	—
275	251	—	—	276	—	—
300	—	—	—	—	—	—
325	—	—	—	—	—	—
350	—	—	—	—	—	—

2.50" Hose Flow (GPM)	75 PSI Nozzle Pressure Length Of Hose			100 PSI Nozzle Pressure Length Of Hose		
	150 FT (PSI)	200 FT (PSI)	250 FT (PSI)	150 FT (PSI)	200 FT (PSI)	250 FT (PSI)
60	76	76	77	101	101	102
95	78	79	80	103	104	105
125	80	81	83	105	106	108
150	82	84	86	107	109	111
175	84	87	90	109	112	115
200	87	91	95	112	116	120
225	90	95	100	115	120	125
250	94	100	106	119	125	131
275	98	105	113	123	130	138
300	102	111	120	127	136	145
325	107	117	128	132	142	153
350	112	124	136	137	149	161

NOTE: Flows may vary with brand or condition of hose. Flows are approximate and do not reflect losses in preconnect piping.

Formula Used: $PDP = NP + FL$

PDP = Pump Discharge Pressure

NP = Nozzle Pressure

FL = Friction Loss

$FL = CQ^2L$

C for 1.75" Hose = 15.5

C for 2.50" Hose = 2

Q Flow Rate in Hundreds of GPM

L Length of Hose in Hundreds of Feet

DISCHARGE FOR HYDRANT OUTLETS

Outlet Pressure (lbs.)	Outlet Diameter				Outlet Pressure (lbs.)	Outlet Diameter			
	2.5"	3.0"	4.0"	4.5"		2.5"	3.0"	4.0"	4.5"
	U.S. Gallons per Minute					U.S. Gallons per Minute			
1	170	240	430	540	16	670	970	1720	2180
2	240	340	610	770	17	690	1000	1770	2240
3	290	420	740	940	18	710	1030	1820	2310
4	340	480	860	1090	19	730	1050	1870	2370
5	380	540	960	1220	20	750	1080	1920	2430
6	410	590	1050	1340	22	790	1130	2020	2550
7	440	640	1140	1440	24	820	1180	2110	2660
8	480	680	1220	1540	26	860	1230	2190	2770
9	500	730	1290	1640	28	890	1280	2280	2880
10	530	760	1360	1730	30	920	1320	2350	2980
11	560	800	1430	1810	32	950	1370	2430	3080
12	580	840	1490	1890	34	980	1410	2510	3170
13	610	870	1550	1960	36	1010	1450	2580	3260
14	630	900	1610	2040	38	1040	1490	2650	3350
15	650	940	1660	2110	40	1060	1530	2720	3440

HYDRANT DISCHARGE FORMULA

To obtain the flow from hydrant outlets use the same formula as given for smooth bore nozzles but use the factor "C" equal to 0.90. Every Fire Department should check the flow from their hydrants. This can be done simply and easily using only a cap with a pressure gauge attached. Merely place the gauge on one outlet, open the hydrant and read the gauge. Remove another cap, open the hydrant and read the gauge again and obtain the gallons per minute using the above method or from the discharge table for hydrant outlets. Obtain the maximum amount of water available from the discharge table for hydrant outlets. Then to obtain the maximum amount of water available from the hydrant in gallons per minute with a residual of 10 lbs. (which is the lowest you should draw down the pressure on the hydrant) use the following formula.

$$A = \frac{B \times \sqrt{P1-10}}{\sqrt{P1-P2}}$$

Where: A = Gallons per minute available at 10 lbs residual.

B = Gallons per minute obtained.

P1 = Static pressure on hydrant with no water flowing.

P2 = Residual pressure on hydrant with water flowing.

DEFINITIONS OF COMMON PRESSURE TERMS

Static or Sidewall Pressure: "Static" means not moving. Static Pressure can be the pressure on a hydrant while it is not flowing. It can also be the pressure measured at a small hole through the side of a pipe—even if there is flow going through the pipe. Since there is no flow going into the small hole this is another measure of static pressure. Pressure measured through a small hole in the side of a pipe is also known as Sidewall Pressure.

Dynamic Pressure: Dynamic Pressure is pressure caused by the fluid's velocity. In mathematical terms the Dynamic Pressure varies with the velocity squared. So doubling the velocity increases the Dynamic Pressure by four (2 squared equals 4). A pitot tube can be used to measure Dynamic Pressure. A pitot tube is a special device that measures Total and Static Pressures simultaneously. The Dynamic Pressure equals the Total Pressure minus the Static Pressure.

Total Pressure: Total Pressure is the Dynamic Pressure added to the Static Pressure. The Total Pressure can be measured with a "stagnation tube". A stagnation tube is a curved piece of tubing with a pressure gage. Total Pressure is measured by orienting the tubing so it's opening is impacted squarely by the fluid flow. A Stagnation Tube is often called a Pitot Tube in the fire service and is used to measure the Total Pressure at a nozzle's outlet. Since the stream exiting a nozzle has zero Static (or Sidewall) Pressure, a Stagnation Tube in the exit stream gives the Total Pressure.

Residual Pressure: Residual Pressure is the static (or sidewall) pressure at a location while a system is flowing. Due to Friction Loss, the residual pressure decreases as flow increases.

Friction Loss: Friction loss is the amount of pressure difference between two points while flowing. It is determined by comparing the Total Pressure between the two points. For example: A device with a Total Pressure of 120 psi at the inlet and a Total Pressure of 95 psi at the outlet while flowing 1000 gpm. The device's Friction Loss would be 25 psi at 1000 gpm. The Friction Loss varies with the square of the flow. So doubling the flow yields four times the friction loss.

Operating Pressure: Operating Pressure is the Static (or Sidewall) pressure in a device during use.

POLAR SOLVENT FIRE SPILL RESPONSE

SPILL SIZE (square feet)	3% CONCENTRATE					6% CONCENTRATE				
	GPM REQUIREMENTS		TOTAL GALLONS REQUIRED For Minimum of 15 Minutes Application Time			GPM REQUIREMENTS		TOTAL GALLONS REQUIRED For Minimum of 15 Minutes Application Time		
	FOAM SOLUTION GPM	CONCEN- TRATE GPM	SOLUTION (GALLONS)	CONCEN- TRATE (GALLONS)	WATER (GALLONS)	FOAM SOLUTION GPM	CONCEN- TRATE GPM	SOLUTION (GALLONS)	CONCEN- TRATE (GALLONS)	WATER (GALLONS)
50	10	0.3	150	4.5	146	10	.06	150	9	141
100	20	0.6	300	9	291	20	2.1	300	18	282
150	30	0.9	450	13.5	437	30	1.8	450	27	423
200	40	1.2	600	18	582	40	2.4	600	36	564
250	50	1.5	750	22.5	728	50	3	750	45	705
300	60	1.8	900	27	873	60	3.6	900	54	846
350	70	2.1	1,050	31.5	1,019	70	4.2	1,050	63	987
400	80	2.4	1,200	36	1,164	80	4.8	1,200	72	1,128
450	90	2.7	1,350	40.5	1,310	90	5.4	1,350	81	1,269
500	100	3	1,500	45	1,455	100	6	1,500	90	1,410
550	110	3	1,650	49.5	1,601	110	6.6	1,650	99	1,551
600	120	3.6	1,800	54	1,746	120	7.2	1,800	108	1,692
650	130	3.9	1,950	58.5	1,892	130	7.8	1,950	117	1,833
700	140	4.2	2,100	63	2,037	140	8.4	2,100	126	1,974
750	150	4.5	2,250	67.5	2,183	150	9	2,250	135	2,115
800	160	4.8	2,400	72	2,328	160	9.6	2,400	144	2,256
850	170	5.1	2,550	76.5	2,474	170	10.2	2,550	153	2,397
900	180	5.4	2,700	81	2,619	180	10.8	2,700	162	2,538
950	190	5.7	2,850	85.5	2,765	190	11.4	2,850	171	2,679
1,000	200	6	3,000	90	2,910	200	12	3,000	180	2,820
1,500	300	9	4,500	135	4,365	300	18	4,500	270	4,230
2,000	400	12	6,000	180	5,820	400	24	6,000	360	5,640
2,500	500	15	7,500	225	7,275	500	30	7,500	450	7,050
3,000	600	18	9,000	270	8,730	600	36	9,000	540	8,460
3,500	700	21	10,500	315	10,185	700	42	10,500	630	8,460
4,000	800	24	12,000	360	11,600	800	48	12,000	720	11,280

Foam application rates for Polar Solvent fires: per NFPA for ignited fuel spills less than 1" in depth.

Solution Ratio: 3% Concentrate, 97% Water

Minimum Application Time: 15 minutes

Application Rate: 0.2 GPM Foam Solution per sq. ft.

Solution Ratio: 6% Concentrate, 94% Water

Minimum Application Time: 15 minutes

Application Rate: 0.2 GPM Foam Solution per sq. ft.

Rule of Thumb: Foam Solution Flow Rate x 5 = sq. ft. of ignition spill area that can be covered.

Example: Eductor flow/max. square feet area of spill:

60 gpm = 300 sq ft

95 gpm = 475 sq ft

125 gpm = 625 sq ft

250 gpm = 1250 sq ft

This foam application chart has been designed to provide a quick means of calculating an approximation of the initial flow rates of various foam concentrates when used on hydrocarbon and polar solvent fuels. Actual flow rates required will vary depending on the conditions at the scene. The application data shown assumes the use of fully aspirating nozzles. This foam application chart is not designed to, nor can it provide the user with the definitive requirements to address a particular fire fighting situation. The selection of appropriate foam liquid concentrate, of application devices and application methods for the fire hazard being addressed, is the responsibility of the fire fighting professional.

Ref: IFSTA Fire Protection Publications Fire Stream Practices 7th Edition

HYDROCARBON FIRE SPILL RESPONSE

SPILL SIZE (square feet)	3% CONCENTRATE					6% CONCENTRATE				
	GPM REQUIREMENTS		TOTAL GALLONS REQUIRED For Minimum of 15 Minutes Application Time			GPM REQUIREMENTS		TOTAL GALLONS REQUIRED For Minimum of 15 Minutes Application Time		
	FOAM SOLUTION GPM	CONCENTRATE GPM	SOLUTION (GALLONS)	CONCENTRATE (GALLONS)	WATER (GALLONS)	FOAM SOLUTION GPM	CONCENTRATE GPM	SOLUTION (GALLONS)	CONCENTRATE (GALLONS)	WATER (GALLONS)
50	5	0.15	75	2.25	73	5	0.3	75	4.5	70.5
100	10	0.3	150	4.5	146	10	0.6	150	9	141
150	15	0.45	225	6.75	219	15	0.9	225	13.5	211.5
200	20	0.6	200	9	291	20	1.2	300	18	282
250	25	0.75	375	11.25	364	25	1.5	375	22.5	352.5
300	30	0.9	450	13.5	437	30	1.8	450	27	423
350	35	1.05	525	15.75	510	35	2.1	525	31.5	493.5
400	40	1.2	600	18	582	40	2.4	600	36	564
450	45	1.35	675	20.25	655	45	2.7	675	40.5	634.5
500	50	1.5	750	22.5	728	50	3	750	45	705
550	55	1.65	825	24.75	801	55	3.3	825	49.5	775.5
600	60	1.8	900	27	873	60	3.6	900	54	846
650	65	1.95	975	29.25	946	65	3.9	975	58.5	916.5
700	70	2.1	1,050	31.5	1,019	70	4.2	1,050	63	987
750	75	2.25	1,125	33.75	1,092	75	4.5	1,125	67.5	1,057.5
800	80	2.4	1,200	36	1,164	80	4.8	1,200	72	1,128
850	85	2.55	1,275	38.25	1,237	85	5.1	1,275	76.5	1,198.5
900	90	2.7	1,350	40.5	1,310	90	5.4	1,350	81	1,269
950	95	2.85	1,425	42.75	1,383	95	5.7	1,425	85.5	1,339.5
1,000	100	3	1,500	45	1,455	100	6	1,500	90	1,410
1,500	150	4.5	2,250	67.5	2,183	150	9	2,250	135	2,115
2,000	200	6	3,000	90	2,910	200	12	3,000	180	2,820
2,500	250	7.5	3,750	112.5	3,638	250	15	3,750	225	3,525
3,000	300	9	4,500	135	4,365	300	18	4,500	270	4,230
3,500	350	10.5	5,225	157.5	5,093	350	21	5,250	315	4,935
4,000	400	12	6,000	180	5,820	400	24	6,000	360	5,640

Foam application rates for Hydrocarbon fires: per NFPA for ignited fuel spills less than 1" in depth.

"For simple Hydrocarbons."

Solution Ratio: 3% Concentrate, 97% Water

Minimum Application Time: 15 minutes

Application Rate: 0.1 GPM Foam Solution per sq. ft.

Solution Ratio: 6% Concentrate, 94% Water

Minimum Application Time: 15 minutes

Application Rate: 0.1 GPM Foam Solution per sq. ft.

Rule of Thumb: Foam Solution Flow Rate x 10 = sq. ft. of ignition spill area that can be covered.

Example: Eductor flow/max. square feet area of spill:

60 gpm = 600 sq ft

95 gpm = 950 sq ft

125 gpm = 1250 sq ft

250 gpm = 2500 sq ft

This foam application chart has been designed to provide a quick means of calculating an approximation of the initial flow rates of various foam concentrates when used on hydrocarbon and polar solvent fuels. Actual flow rates required will vary depending on the conditions at the scene. The application data shown assumes the use of fully aspirating nozzles. This foam application chart is not designed to, nor can it provide the user with the definitive requirements to address a particular fire fighting situation. The selection of appropriate foam liquid concentrate, of application devices and application methods for the fire hazard being addressed, is the responsibility of the fire fighting professional.

Ref: IFSTA Fire Protection Publications Fire Stream Practices 7th Edition

METRIC CONVERSIONS

LIQUID VOLUME

To Convert	Into	Multiply by
Ounces (oz)	Milliliters (ml)	29.57
Pints (pt)	Liters (l)	0.4732
Quarts (qt)	Liters (l)	0.9464
Gallons (gal)	Liters (l)	3.785
Milliliters (ml)	Ounces (oz)	0.0338
Liters (l)	Pints (pt)	2.113
Liters (l)	Quarts (qt)	1.057
Liters (l)	Gallons (gal)	0.2642

SOLID VOLUME - WEIGHT

To Convert	Into	Multiply by
Ounces (oz)	Grams (g)	28.3495
Pounds (lb)	Kilograms (kg)	0.4536
Grams (g)	Ounces (oz)	0.035
Kilograms (kg)	Pounds (lb)	2.205

PRESSURE

To Convert	Into	Multiply by
Pounds per square inch (psi)	Kilopascals (kPa)	6.895
Pounds per square inch (psi)	bar	0.06895
Kilopascals (kPa)	Pounds per square inch (psi)	0.145
Kilopascals (kPa)	bar	0.01
bar	Pounds per square inch (psi)	14.503
bar	Kilopascals (kPa)	100.00

LENGTH

To Convert	Into	Multiply by
Inches (in)	Millimeters (mm)	25.4
Inches (in)	Centimeters (cm)	2.54
Feet (ft)	Centimeters (cm)	30.48
Yards (yd)	Meters (m)	0.914
Miles (mi)	Kilometers (km)	1.609
Millimeters (mm)	Inches (in)	0.039
Centimeters (cm)	Inches (in)	0.394
Meters (m)	Yards (yd)	0.094
Kilometers (km)	Miles (mi)	0.6214

AREA

To Convert	Into	Multiply by
Square inches (sq in)	Square Centimeters (cm ²)	6.452
Square feet (sq ft)	Square Meters (m ²)	0.093
Square Yards (sq yd)	Square Meters (m ²)	0.836
Square Miles (sq mi)	Square Kilometers (km ²)	2.59
Square Centimeters (cm ²)	Square inches (sq in)	0.155
Square Meters (m ²)	Square feet (sq ft)	1.196
Square Kilometers (km ²)	Square Yards (sq yd)	0.386

TIP SIZES

3/4" Tip = 19 mm	1-1/2" Tip = 38 mm
7/8" Tip = 22 mm	1-3/4" Tip = 45 mm
1" Tip = 25 mm	2" Tip = 50 mm
1-1/8" Tip = 28 mm	2-1/4" Tip = 57 mm
1-1/4" Tip = 32 mm	2-1/2" Tip = 64 mm
1-3/8" Tip = 35 mm	3" Tip = 76 mm

HOSE SIZES

1" Hose = 25.4 mm	4" Storz = 100.00 mm
1.5" Hose = 38.1 mm	4" Hose = 101.60 mm
1.75" Hose = 44.5 mm	4.5" Hose = 114.30 mm
2" Hose = 50.8 mm	5" Storz = 125.00 mm
2.5" Hose = 63.5 mm	5" Hose = 127.00 mm
3" Hose = 76.2 mm	6" Hose = 152.40 mm
3.5" Hose = 88.9 mm	

PRESSURES

50 psi = 345 kPa = 3.45 bar	300 psi = 2069 kPa = 20.69 bar
60 psi = 414 kPa = 4.14 bar	350 psi = 2413 kPa = 24.13 bar
70 psi = 488 kPa = 4.88 bar	400 psi = 2758 kPa = 27.58 bar
75 psi = 517 kPa = 5.17 bar	450 psi = 3103 kPa = 31.03 bar
80 psi = 552 kPa = 5.52 bar	500 psi = 3448 kPa = 34.48 bar
90 psi = 621 kPa = 6.21 bar	550 psi = 3792 kPa = 37.92 bar
100 psi = 690 kPa = 6.90 bar	600 psi = 4137 kPa = 41.37 bar
150 psi = 1034 kPa = 10.34 bar	650 psi = 4482 kPa = 44.82 bar
200 psi = 1379 kPa = 13.79 bar	700 psi = 4827 kPa = 48.27 bar
250 psi = 1723 kPa = 17.23 bar	

FLOW RATE

12 gpm	=	45.42 l/min	=	45 l/min
13 gpm	=	49.20 l/min	=	50 l/min
20 gpm	=	75.70 l/min	=	75 l/min
23 gpm	=	87.06 l/min	=	90 l/min
25 gpm	=	94.62 l/min	=	95 l/min
30 gpm	=	113.55 l/min	=	115 l/min
40 gpm	=	151.40 l/min	=	150 l/min
50 gpm	=	189.25 l/min	=	190 l/min
55 gpm	=	208.18 l/min	=	210 l/min
60 gpm	=	227.10 l/min	=	230 l/min
70 gpm	=	264.95 l/min	=	265 l/min
75 gpm	=	283.88 l/min	=	285 l/min
85 gpm	=	321.73 l/min	=	320 l/min
95 gpm	=	359.58 l/min	=	360 l/min
100 gpm	=	378.50 l/min	=	380 l/min
120 gpm	=	454.20 l/min	=	460 l/min
125 gpm	=	473.13 l/min	=	475 l/min
150 gpm	=	567.75 l/min	=	550 l/min
175 gpm	=	662.38 l/min	=	660 l/min
200 gpm	=	757.00 l/min	=	750 l/min
250 gpm	=	946.25 l/min	=	950 l/min
300 gpm	=	1135.50 l/min	=	1140 l/min
350 gpm	=	1324.75 l/min	=	1325 l/min
375 gpm	=	1419.38 l/min	=	1420 l/min
400 gpm	=	1514.00 l/min	=	1525 l/min
450 gpm	=	1703.25 l/min	=	1700 l/min
500 gpm	=	1892.50 l/min	=	1900 l/min
700 gpm	=	2649.50 l/min	=	2660 l/min
750 gpm	=	2838.75 l/min	=	2900 l/min
800 gpm	=	3028.00 l/min	=	3030 l/min
1000 gpm	=	3785.00 l/min	=	3800 l/min
1200 gpm	=	4542.00 l/min	=	4500 l/min
1250 gpm	=	4731.25 l/min	=	4800 l/min
1500 gpm	=	5677.50 l/min	=	6000 l/min
2000 gpm	=	7570.00 l/min	=	7600 l/min

Adapters - Adapters shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. The units shall meet a 900 psi hydrostatic strength test. Adapters shall meet NFPA 1965 (2009 edition). All LDH hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

AYNG Hi-Rise Wye Series - A 2-½" female inlet by one 1-½" male threaded outlet with ball valve and one 1½" non-valved outlet with protected pressure gauge shall be standard. Wye construction shall be of corrosion resistant hardcoat anodized, powder coated aluminum alloy with stainless steel components. Valve shall include high strength nylon handle with built-in stops, and hardcoat aluminum shutoff ball with easily changed valve seats. Valve shall have engraved serial number and a 5-year warranty.

AYNJ Gated Leader Wye Series - A 2-½" female inlet by two 1-½" male threaded outlets shall be standard. Wye construction shall be of corrosion resistant hardcoat anodized, powder coated aluminum alloy, and stainless steel components. Valve shall include high strength nylon handles with built-in stops, and hardcoat aluminum shutoff balls with easily changed valve seats. Valve shall have engraved serial number and a 5-year warranty.

Ball Intake Valve Series - Ball intake valve shall be constructed of corrosion resistant, hardcoat anodized aluminum alloy, with stainless steel components and ball section. The unit shall have limited friction loss at 2000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an adjustable 50-200 psi pressure relief valve, air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye, maximum operating pressure shall be 250 psi, and shall meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2009 edition). The valve shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. Gear box mounted handcrank or side handwheel meets NFPA 1901 slow-close requirements, and handwheel shall be reversible from side to side. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

Ball Intake Valve RC Series - Ball Intake Valve with electric remote control for opening and closing. And have a panel-mounted electric quick connect between the valve and control box. Control box to display open, closed, and intermediate valve positions. Control box and motor shall be waterproof. Ball intake valve shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components and ball section. The unit shall have limited friction loss at 2000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an adjustable 50-200 psi pressure relief valve, air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye, maximum operating pressure shall be 250 psi, and shall meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2009 edition). The valve shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. Manual override handwheel meets NFPA 1901 slow-close requirements, and be reversible from side to side. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

Ball Valve Series - Valve shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Unit shall have nylon valve ball with detent flow control and high strength nylon handle. Inlet shall have 1-½" or 2-½" inlet (specify) and discharge outlet shall have 1-½" thread for coupling to a combination nozzle or smooth bore tip. Internal waterway shall be 1.375". Color-coded, injection molded nylon pistol grips, and valve handle covers shall be available. Rubber covered playpipe handles are available on 2-½" models. Nozzle shall have a full-time swivel inlet and laser engraved serial number and a 5-year warranty.

Ball Valve 75 Series - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Valve shall have stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. Female inlet (specify rigid or swivel) and male outlet shall have 1" thread. Valve will have .75" internal waterway. Color-coded, injection molded nylon pistol grips and valve handle covers shall be available. Nozzle shall have laser engraved serial number and a 5-year warranty.

Ball Valve 100 Series - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Valve shall have stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. Swivel female inlet and male outlet shall have 1-½" thread (specify). Valve shall have 1" internal waterway. Color-coded, injection molded nylon pistol grips and valve covers shall be available. Nozzle

shall have laser engraved serial number and a 5-year warranty.

Ball Valve 140 Series - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Valve shall have stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. Swivel female inlet and male outlet shall have 1-½" or 2-½" thread (specify). Valve shall have 1.375" internal waterway. Color-coded, injection molded nylon pistol grips and handle covers shall be available. Nozzle shall have laser engraved serial number and a 5-year warranty.

Blind Caps - Storz® caps shall be constructed of corrosion resistant, hard coat anodized, heat treated aluminum alloy. Caps shall have lanyard, suction gasket and no locking lever per NFPA 1963. The units shall meet a 900 psi hydrostatic strength test. Caps shall meet NFPA 1965 (2009 edition). Unit shall be covered by a 5-year warranty.

Blitz Lite - Lightweight attack monitor shall have a flow range up to 500 gpm (2000 l/min). The monitor shall have an outlet pivot with elevation adjustable between 30 to 60 degrees unattended, and down to 20 degrees when operated manually. Horizontal rotation shall be manually adjustable 20 degrees either side of center. The unit shall have a discharge pivot with factory installed removable stream-straightener, a safety anchor strap on wind-up reel that is stored under the monitor. The monitor shall have a ball valve shutoff with locking "off" feature. The portable monitor shall have a friction loss of 9 psi at 500 gpm (2000 l/min). The main body shall be hardcoat anodized aluminum with a blue TFT powder coat finish inside and out. The monitor legs shall have resistance to assist in maintaining open or closed position and shall have replaceable carbide tipped spikes. Stowed in storage bracket overall size is 19.2"L x 9.1"W x 11.9"H (48.7 x 23.1 x 30.2cm). Inlet shall be 2-½" female rocker lug swivel coupling. Outlet shall be 2-½" rigid male threads. Monitor shall have laser engraved serial number and a 5-year warranty.

Blitzfire® Series - Rated to 500 gpm, the Blitzfire® is a highly maneuverable attack monitor. The unit shall have folding legs with replaceable carbide tips, a 10-50° elevation outlet angle, and will include an automatic safety flow shut-off to reduce the risk of injury. The six-detent slide valve shut-off shall slow near stroke end to eliminate water hammer. A 40° side-to-side sweep outlet shall be standard. An up/down pivot on the hose inlet shall allow the monitor to have stability on uneven surfaces. An anchor strap shall be included, the main body is hard coat anodized aluminum with a blue powder coat finish inside and out, and a 2-½" inlet and outlet is standard. An optional, field-installed oscillating package upgrade shall be available. Monitor shall have laser engraved serial number and a 5-year warranty.

Blitzfire OSC® Series - Rated to 500 gpm, the Blitzfire OSC® is a highly maneuverable self-oscillating attack monitor. The unit shall have folding legs with replaceable carbide tips, a 10-50° elevation outlet angle, and will include an automatic safety flow shut-off to reduce the risk of injury. The six-detent slide valve shut-off shall slow near stroke end to eliminate water hammer. A user-adjustable 20, 30 or 40° side-to-side automatic oscillating sweep outlet with manual override shall be standard. An up/down pivot on the hose inlet shall allow the monitor to have stability on uneven surfaces. An anchor strap shall be included, the main body is hard coat anodized aluminum with a blue powder coat finish inside and out, and a 2-½" inlet and outlet is standard. Monitor shall have laser engraved serial number and a 5-year warranty.

BubbleCup® Series - Lightweight fog, straight stream, and foam aspiration nozzles with dual gallonage settings. Nozzles shall have a retractable PVC sleeve for foam aspiration, twist shut-off, and shall be available with stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. Color-coded, injection molded nylon pistol grips and handle covers shall be available. Nozzle shall have laser engraved serial number and a 5-year warranty.

CAFS-Force Nozzle - Nozzles shall be engineered to provide optimal foam stream performance, as well as offering low pressure nozzle operations when using water alone. Nozzles shall have a molded rubber bumper with "power fog" teeth, flush without shutting down, reflective labeling shall be standard, and meet NFPA 1964 (2008 edition). The extruded aluminum alloy body shall be hard coat anodized and nozzle shall have an automatic dual-pressure control with a water flow capacity of 70-200 gpm that may be switched from standard low pressure (water application) to CAFS mode. Nozzle shall have laser engraved serial number and a 5-year warranty.

Crossfire® Series - Rated to 1250 gpm, the Crossfire® is a portable ground monitor and/or deck mounted monitor. The Crossfire® monitor top with hand wheel shall provide elevation control from 90° to the safety stop at 30° above horizontal, and shall be capable of lower elevation angle when truck mounted. A visually verifiable lever action rotational lock, quick release bar with locking pawls, automatic drain valve, stainless steel worm gear, integral stream straighteners, and pressure gauge shall all be standard. The SAFE-

PRODUCT GROUP SPECIFICATIONS

TAK® ground base shall have replaceable carbide tipped, stainless steel folding legs, and will include an automatic safety flow restriction device to reduce the risk of injury. An anchor strap attached to protective ground base outlet cap shall be included. All castings are hardcoat anodized aluminum alloy with a powder coat finish inside and out, and available with twin 2-½" clapper inlet, or single large diameter inlet. An optional pressure relief valve (single inlet models only), truck mounting bracket, apparatus mounting adapters and nozzles are available. Monitor and base shall each have laser engraved serial number and a 5-year warranty.

Dual-Force® Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation. Nozzles shall have a molded rubber bumper with "power fog" teeth, a stainless steel slide valve with detent flow control (except tip-only models), and inlet debris screen. The nozzle shall have a dual pressure selector that allows for 100 psi or 55 psi pressure operation or a low-pressure version that allows 75 psi or 45 psi pressure operation. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers (except tip-only models) shall be available and nozzles shall accept the low and multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Elbows - 30° elbows shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. The units shall meet a 900 psi hydrostatic strength test. Elbows shall meet NFPA 1965 (2003 edition). The elbow shall have a silver powder coat finish inside and out. All LDH hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Unit shall have chain/lanyard attachment anchor point, and be available with a choice of hose threaded or Storz couplings (specify), have a serial number, and be covered by a 5-year warranty.

Extend-A-Gun™ Manual Series - The telescoping waterway shall be capable of being lowered to deck level (or into a monitor well) for monitor storage, and shall be capable of raising the monitor to an extended position by lifting the quick release bar and raising manually. The extension shall be available in extension travel lengths of either 12" or 18" (specify) and shall lock into and be usable in fully raised or fully lowered positions. The Extend-A-Gun shall allow for full 360-degree monitor rotation operation in either the raised or lowered positions. Shall have a 3" waterway, hard coat anodized finish, and built-in sensor for connection to "monitor raised" warning light. The inlet shall be either 3" grooved Victaulic or 3" male NPT or BSP thread (specify). The outlet shall be either 3" male NPT thread or Crossfire monitor connection (specify). Unit shall have laser engraved serial number and be covered by a 5-year warranty.

Extend-A-Gun RC 3™ Series - The remote controlled telescoping waterway shall be capable of being lowered to deck level (or into a monitor well) for monitor storage, and shall be capable of raising the monitor to an extended position by electric remote control. The extension travel length shall be either 12" or 18" and shall lock and be usable in fully raised or fully lowered positions and operated by an electric motor controlled from TFT RC monitor controls or with optional remote control operators panel. Manual override shall be included. The Extend-A-Gun RC 3 shall allow for full 360° monitor rotation operation in either the raised or lowered positions. Shall have a 3" waterway, hard coat anodized finish, and built-in sensor for connection to "monitor raised" warning light. The inlet shall be either 3" grooved Victaulic or 3" male NPT or BSP thread (specify). The outlet shall have Tornado, Hurricane, Typhoon or Monsoon manual or electric remote monitor attachment (specify). Unit shall have serial number and be covered by a 5-year warranty.

Extend-A-Gun RC 4™ Series - The remote controlled telescoping waterway shall be capable of being lowered to deck level (or into a monitor well) for monitor storage, and shall be capable of raising the monitor to an extended position by electric remote control. The extension travel length shall be 18" and shall lock and be usable in fully raised or fully lowered positions and be operated by an electric motor controlled from TFT RC monitor controls or with optional remote control operators panel. Manual override shall be included. The Extend-A-Gun RC 4 shall allow for full 360° monitor rotation operation in either the raised or lowered position. Shall have a 4" waterway, hard coat anodized finish, and built-in sensor for connection to "monitor raised" warning light. The inlet shall be either 4" grooved Victaulic or 4" male NPT or BSP thread (specify). The outlet shall have Hurricane, Typhoon or Monsoon manual or electric remote monitor attachment (specify). Unit shall have serial number and be covered by a 5-year warranty.

Foam Eductor 125 Series - Portable in-line foam eductor shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. Eductor shall have 1-½" or 2-½" inlet (specify) and 1-½" outlet, and shall be available in 60, 95 or 125 gpm flow rating (specify) and shall accurately proportion at 0.25%, 0.5%, 1%, 3%, and 6% user adjustable settings with detents. The pickup head shall include a

quick connector and push-button back-flush function. Concentrate pick-up tube shall be constructed of 1" ID industrial grade, transparent reinforced tubing and stainless steel components. The units shall meet a 900 psi hydrostatic strength test. Eductors shall meet NFPA 1965 (2009 edition). Units shall have a laser engraved serial number and be covered by a 5-year warranty.

Foam Eductor 350 Series - Portable in-line foam eductor shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. Eductor shall have 2-½" inlet and outlet, and shall be available in 250 or 350 gpm flow rating at either 150 or 200 psi inlet pressure (specify). It shall accurately proportion at 0.5%, 1%, 3%, and 6% user adjustable settings with detents. The pickup head shall include a quick connector and push-button back-flush function. Concentrate pick-up tube shall be constructed of 1.25" ID industrial grade, UV resistant tubing and stainless steel components. The units shall meet a 900 psi hydrostatic strength test. Eductors shall meet NFPA 1965 (2009 edition). Units shall have a laser engraved serial number and be covered by a 5-year warranty.

Forestry Gated Wye Series - A 1" or 1-½" female inlet (specify) by two 1" or 1-½" male threaded outlets (specify) shall be standard. Wye construction shall be of corrosion resistant hard coat anodized, aluminum alloy, and stainless steel components. Valve shall include high strength nylon handles with built-in stops, and easily changed valve seats. Valve shall have engraved serial number and a 5-year warranty.

Forestry In-line Valve - A 1" or 1-½" female inlet (specify) by 1" or 1-½" male threaded outlet (specify) shall be standard. Valve construction shall be of corrosion resistant hard coat anodized, aluminum alloy, and stainless steel components. Valve shall include high strength nylon handle with built-in stops, and easily changed valve seats. Valve shall have engraved serial number and a 5-year warranty.

Forestry In-line Tee - A 1-½" female inlet and 1-½" male threaded outlet shall be standard. Branch outlet shall be 1" NH or NPSH male thread (specify). Valve shall include high strength nylon handle. Valve shall have engraved serial number and a 5-year warranty.

Gated Wye 2 ½" - shall have a full 2-½" waterway, field replaceable valve seats, and a quarter-turn valve handle requiring low force to move valve with up to 250 psi (17 bar) maximum operating pressure from either side of valve. Automatic valve lock to maintain valve position while flowing at partial openings shall be standard. Quarter turn folding valve handles for compactness, cast in carrying handle shall be standard. Pipe threaded ports for pressure gauge or bleed valve and hole for cap tether attachment shall be included. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. Available with many combinations of inlet and outlet connections. Valve shall have serial number and a 5-year warranty.

Gated Siamese 2 ½" - shall have a full 2-½" waterway. 250 psi (17 bar) operating pressure from either side of valve. Field replaceable valve seats. Quarter turn folding valve handles for compactness. Low force to move valve even under pressure. Cast in carrying handle. Automatic valve lock keeps valve position while flowing at partial openings. Pipe threaded ports for pressure gauge or bleed valve. Holes for cap tether attachment. Aluminum casting is hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. Available with many combinations of inlet and outlet connections. Valve shall have serial number and 5-year warranty.

Handline Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation. Nozzles shall have a molded rubber bumper with "power fog" teeth, a stainless steel slide valve with detent flow control, (except tip-only models) and inlet debris screen. The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and color-coded valve handle covers shall be available (except tip-only models). Nozzles shall accept the low and multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Hose Hook - Hose hook components shall be made from lightweight and durable nylon. Unit shall have an integral spanner wrench to fit 2-½" rocker lug couplings and most 4" and 5" Storz couplings. A foam concentrate pail lid removing tool shall be integrated. Tool shall be capable of draining hose and carrying rolled hose up to 5" large diameter hose. Unit shall include a mounting bracket. Tool shall have a 5-year warranty.

Hose Roller - Hose roller components shall be made from aluminum alloy with stainless steel hardware and polymer rollers. Unit shall have three hand grips and be hinged at one end. Unit shall be covered by a 5-year warranty.

Hurricane Monitor Series - Rated up to 1250 gpm, the Hurricane is a fixed station or

truck mounted monitor. The hand wheel shall provide elevation control from 90° above to 90° below horizontal. The unit shall have a full 360° rotational travel, visually verifiable lever action rotational locking mechanism, automatic drain valve, stainless steel worm gear, and shall have grease zerk fittings for easy service and lubrication. The discharge elbow shall include an integral stream straightener. The monitor shall be hard coat anodized aluminum alloy, and shall have a red powder coat finish inside and out. Unit shall have laser engraved serial number and be covered by a 5-year warranty.

Hurricane RC Monitor Series - Rated up to 1250 gpm, the Hurricane RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of rotation and elevation angle. The electric motor shall provide elevation control from 90° above and 45° below horizontal. The unit shall have an electrically operated 450° horizontal rotational travel, user installed travel limit stops, automatic drain valve, stainless steel worm gear drive, and shall have grease zerk fittings for easy service and lubrication. User operation controls shall be mounted on the monitor, and shall include rotation, elevation and nozzle stream pattern control programmable park and oscillate and two auxiliary controls. Optional remote wired, tethered and wireless remote controls shall be available. The discharge elbow shall include an integral stream straightener. The monitor shall be constructed of hard coat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Unit shall have serial number and be covered by a 5-year warranty.

Hydrant Assist Valves - Hydrant assist valve shall have stainless steel valve ball section, gear box mounted hand crank with valve position indicator, maximum operating of 250 psi, and shall meet a 900 psi hydrostatic strength test. An automatic clapper valve with position indicator shall be standard to allow water flow in the event of booster pump failure for uninterrupted water flow. Large diameter inlets and outlets shall have corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify), and shall have a carrying strap. Aluminum casting shall be hardcoat anodized and silver TFT-powdercoat finished for maximum corrosion protection. The unit shall have a serial number and a 5-year warranty.

Hydrant Gate Valve - 2-½ valve shall have full flow waterway, field replaceable valve seat, and a quarter-turn valve handle requiring low force to move valve with up to 250 psi (17 bar) maximum operating pressure from either side of valve. Automatic valve lock to maintain valve position while flowing at partial openings shall be standard. Pipe threaded ports for pressure gauge or bleed valve and hole for cap tether attachment shall be included. Aluminum casting shall be hardcoat anodized and silver TFT-powder coat finish inside and out for maximum corrosion protection. Unit shall have serial number and be covered by a 5-year warranty.

Hydrant/Spanner Wrench - Wrench shall be made from aluminum alloy and shall have rubber grip. Wrench shall be adjustable for use on square or pentagon hydrant nuts. Spanner shall fit 2-½", 4" and 5" Storz couplings. Unit shall be covered by a 5-year warranty.

In-line Pressure Gauge - Gauge waterway body shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Units shall be available in 2-½" female swivel inlet and male outlet or 1-½" female swivel inlet and male outlet (specify). Pressure gauge shall be liquid-filled, with pitot-type probe into the waterway. Gauge shall have protective rubber bumper and be available in 0-200 psi or 0-300 psi (specify). Unit shall be covered by a 5-year warranty.

Jumbo Ball Intake Valve Series - Ball Intake Valve shall have a 5-¼" diameter waterway. The unit shall be constructed of corrosion resistant, hardcoat anodized aluminum alloy, with stainless steel components and ball section. The unit shall have limited friction loss at 3000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an adjustable 50-200 psi pressure relief valve, air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye, maximum operating pressure shall be 250 psi, and shall meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2003 edition). The valve shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. Gear box mounted hand crank or handwheel (specify) shall meet NFPA 1901 slow-close requirements, and be reversible from side to side. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number and be covered by a 5-year warranty.

Jumbo Ball Intake Valve RC Series - Ball Intake Valve with electric remote control for opening and closing and have a panel mounted electric quick connect between the valve and control box. Control box to display open, closed, and intermediate valve positions. Control box and motor shall be waterproof. Ball Intake Valve shall have a 5-¼" diameter waterway. Ball intake valve shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components and ball section. The

unit shall have limited friction loss at 3000 gpm flow and be designed for both pressure and vacuum service. The valve shall have an adjustable 50-200 psi pressure relief valve, air/water drain valve, valve position indicator, chain/lanyard attachment anchor eye, maximum operating pressure shall be 250 psi, and shall meet a 900 psi hydrostatic strength test. The valve shall meet NFPA 1965 (2003 edition). The valve shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. Manual override hand wheel shall meet NFPA 1901 slow-close requirements, and be reversible from side to side. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

Jumbo Siamese and Wye Series - Wye and Siamese shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. The units shall have chain/lanyard attachment anchor eye, rugged carrying handle (except 2-½" models), and shall meet a 900 psi hydrostatic strength test. Units shall meet NFPA 1965 (2009 edition). The unit shall have a silver powder coat finish inside and out. All LDH hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Siamese unit shall include clapper valve with visual flow indicator. Unit shall be available with a choice of hose threaded or Storz couplings, have a serial number, and be covered by a 5-year warranty.

LDH In-Line Valves - LDH in-line valve shall have stainless steel valve ball section, valve position indicator, maximum operating of 250 psi, and shall meet a 900 psi hydrostatic strength test. Gear box mounted hand crank or side handwheel (specify) meets NFPA 1901 slow-close requirements, and handwheel shall be reversible from side to side. ¾" pipe threaded port for optional air bleeder/drain valve shall be included. Large diameter inlet and outlet shall have corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify), and shall have a carrying handle. Aluminum casting shall be hardcoat anodized and silver TFT-powdercoat finish inside and out for maximum corrosion protection. An optional, adjustable pressure relief valve shall be available. The unit shall have a serial number and a 5-year warranty.

LDH Manifold and Siamese, 3-Way - LDH by 2-½" LDH 3-way manifold and Siamese shall have three (3) full 2-½" waterway valved ports with field replaceable valve seats, quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure from either side of the valves. Automatic valve lock on 2-½" inch valves keep their position while flowing at partial openings and shall be standard. Units shall include three folding valve handles to minimize storage space. ¾" pipe threaded port for optional air bleeder/drain valve shall be included. Large diameter port shall have corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify). Unit shall have a strap for carrying and dragging hose. Aluminum casting shall be hardcoat anodized and silver TFT-powdercoat finish inside and out for maximum corrosion protection. 3-Way Manifold shall have male thread on 2-½" valved ports and Siamese shall have female swivel threaded connections on 2-½" valved ports. Maximum operating pressure of the unit shall be 250 psi. An optional, adjustable pressure relief valve shall be available. The unit shall have a serial number and a 5-year warranty.

LDH Manifold and Siamese, 4-Way - LDH by 2-½" LDH 4-way manifold and Siamese shall have four (4) full 2-½" waterway valved ports with field replaceable valve seats, quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure from either side of the valves. Automatic valve lock on 2-½" inch valves keep their position while flowing at partial openings and shall be standard. Units shall include four folding valve handles to minimize storage space. ¾" pipe threaded port for optional air bleeder/drain valve shall be included. Large diameter port shall have corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify). Unit shall have a strap for carrying and dragging hose. Aluminum casting shall be hardcoat anodized and silver TFT-powdercoat finish inside and out for maximum corrosion protection. 4-way manifold shall have male thread on 2-½" valved ports and Siamese shall have female swivel threaded connections on 2-½" valved ports. Maximum operating pressure of the unit shall be 250 psi. An optional, adjustable pressure relief valve shall be available. The unit shall have a serial number and a 5-year warranty.

Low Expansion Foam Attachment - Air aspirating nozzle foam attachment shall be constructed of corrosion resistant, high strength materials with stainless steel screen (except FJ-LX-M model) and components. Attachment shall attach to appropriate nozzle bumper with a locking mechanism. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.

Master Foam Series - Fixed Gallonage combination fog, straight stream, self-educing, constant gallonage foam nozzle shall be available with a flow of 750, 500, 350 or 250 gpm @ 100 psi (specify) and user selected foam proportioning ratios of 0.5%, 1%, 3%, or

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6%. Nozzle shall be hardcoat anodized aluminum alloy. Nozzle shall include an industrial grade UV resistant 1-1/2" concentrate pickup hose and a UV resistant front rubber bumper and halo ring for pattern adjustment. 2-1/2" female inlet is standard and the nozzle shall accept the FJ-LX-M low expansion foam attachment. Nozzle shall have reflective labeling, laser engraved serial number and a 5-year warranty.

Master Stream 1000 Fixed Series - Fixed Gallonage combination fog and straight stream Master Stream nozzle with a fixed gallonage setting shall be provided. The nozzle shall be pre-set and laser marked at the factory to meet the customer's specified flow (up to 1000 gpm @ 100 psi). The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Operational halo ring shall be available. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1000 Selectable Series - Selectable Gallonage combination fog and straight stream Master Stream nozzle with multiple constant gallonage settings of 250, 350, 500, 750, 1000 gpm @ 100 psi shall be provided. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling, and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1000 Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (150-1000 gpm) @ 100 psi shall be provided. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1250 Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (150-1250 gpm) shall be provided. User adjustable pressure control shall allow nozzle pressure adjustment of 70-120 psi. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 1500 Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (300-1500 gpm) shall be provided. User adjustable pressure control shall allow nozzle pressure adjustment of 70-120 psi. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Master Stream 2000 Automatic Series - Constant pressure/variable gallonage automatic combination fog and straight stream Master Stream nozzle with an automatic pressure mechanism that maintains a constant pressure throughout the nozzle's flow range (300-2000 gpm) shall be provided. User adjustable pressure control shall allow nozzle pressure adjustment of 80-120 psi. The extruded aluminum alloy body shall be hardcoat anodized. Reflective labeling and a UV resistant front rubber bumper with molded fog teeth shall be standard. Nozzle shall allow easy field flushing without tools and provide variable pattern selection from straight stream to wide protective fog. Electrically operated models shall be available (specify). Nozzle shall have laser engraved serial number and a 5-year warranty.

Max-Force Automatic Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth, detent flow control (hand-held models only). The nozzle shall have a dual pressure selector that allows for 100 psi or 55 psi pressure operation. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (hand-held models only), flush without shutting down and meet NFPA 1964 (2003 edition). Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (hand-held models only). Nozzle shall have laser engraved serial number and

a 5-year warranty.

Max-Flow Fixed Gallonage Series - Lightweight fog and straight stream nozzles with fixed gallonage operation of 500 gpm @ 100 psi shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth, detent flow control (hand-held models only). The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (hand-held models only), flush without shutting down and meet NFPA 1964 (2003 edition). Color-coded injection molded nylon pistol grips and valve handle covers shall be available (hand-held models only). Nozzle shall have laser engraved serial number and a 5-year warranty.

Max-Matic Automatic Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation of 100-500 gpm @ 100 psi or 100-500 gpm @ 80 psi (specify) shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth, detent flow control (hand-held models only). The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (hand-held models only), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded injection molded nylon pistol grips and valve handle covers shall be available (hand-held models only). Nozzle shall have laser engraved serial number and a 5-year warranty.

METRO 1 Series - Lightweight fog and straight stream nozzles with fixed gallonage setting and 7 user selected calibrated flow and pressure baffles allowing for 14 different flow and pressure combinations shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth or stainless steel spinning teeth (specify), a stainless steel slide valve with detent flow control, (except tip-only models) and inlet debris screen. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall flush without shutting down and meets the flow and performance criteria of NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (except tip-only models). Nozzle shall accept the FJ-MX-HM multi-expansion and FJ-HM, FJ-LX-HM low-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

METRO 2 Series - Lightweight fog and straight stream nozzles with fixed gallonage setting and 5 user selected calibrated flow and pressure baffles allowing for 10 different flow and pressure combinations shall be provided. Nozzles shall have a heavy duty nylon valve ball (except tip only models). Nozzles shall have a molded rubber bumper with "power fog" teeth. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall flush without shutting down and meets the flow and performance criteria of NFPA 1964 (2003 edition). Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (except tip-only models). Nozzle shall accept the FJ-HMX multi-expansion and FJ-H low-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Mid-Force Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth or stainless steel spinning teeth (specify), a stainless steel slide valve with detent flow control (except tip-only models), and inlet debris screen. The nozzle shall have a dual pressure selector that allows for 100 psi or 55 psi pressure operation or a low-pressure version that allows 75 psi or 45 psi pressure operation (specify). The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers (except tip-only models) shall be available and nozzles shall accept the FJ-HM, FJ-LX-HM low and FJ-MX-HM multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Mid-Matic Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation with a flow range of 70-200 gpm @ 100 psi or 70-200 gpm @ 75 psi (specify) shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth or stainless steel spinning teeth (specify), a stainless steel slide valve with detent flow control, (except tip-only models) and inlet debris screen. The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips shall be available. Color-coded valve handle covers shall be available (except tip-only models). Nozzles shall accept the FJ-HM, FJ-LX-HM low and FJ-MX-HM multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Monsoon Monitor Series - Rated up to 2000 gpm, and 200 psi, the Monsoon is a manually operated fixed station or truck mounted monitor with manual control of rotation and elevation angle. The hand wheel shall provide elevation control from 90° above

and 45° below horizontal through a segmented waterway with minimal waterway turning angles and built-in stream shaping vane. The unit shall have hand wheel operated 360° continuous rotational travel, stainless steel worm gear, or tiller bar rotation (specify), user installed travel limit stops. The monitor shall be hardcoat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Unit shall have serial number and be covered by a 5-year warranty.

Monsoon RC Monitor Series - Rated up to 2000 gpm, and 200 psi, the Monsoon RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of rotation, elevation angle and nozzle pattern. The unit shall have an electrically operated elevation control from 90° above and 45° below horizontal through a segmented waterway with minimal waterway turning angles and built-in stream shaping vane. The unit shall have an electrically operated 450° horizontal rotational travel, stainless steel worm gear, and user installed travel limit stops. User operation controls shall be mounted on the monitor, and shall include rotation, elevation, and nozzle stream pattern control programmable park and oscillate and two auxiliary controls. Optional remote wired, tethered and wireless remote controls shall be available. The monitor shall be hardcoat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Unit shall have serial number and be covered by a 5-year warranty.

Multi-Expansion Foam Attachment - Air aspirating nozzle foam attachment shall be constructed of corrosion resistant, high strength materials with stainless steel screen and components. Attachment shall attach to appropriate nozzle bumper with a locking mechanism. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.

NY Stacked Smooth Bore Tips - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Each tip shall be laser engraved with flow/pressure chart, and orifice size. Tip sizes shall be 15/16" and 1/2". Inlet shall be 1-1/2". Unit shall be covered by a 5-year warranty.

PRO/pak® Series - The portable foam system with yellow two and one half gallon concentrate tank shall be constructed of high impact plastic with metallic components of hard coat anodized aluminum alloy and stainless steel. The unit will include three quick-connect nozzles for straight stream, low and medium expansion applications, a shoulder carrying strap, and quick connect discharge hose. The unit shall operate with inlet pressures from 40-500 psi and a nominal flow of 12 gpm @ 100 psi. The twist grip valve shall control flow, as well as acting as a carrying handle, and a large easy open fill port, concentrate indicator and screen strainer shall be included. The field changeable percentage knob shall offer user selectable proportioning ratios of 1%, 3% or 6%, and a user selectable range from 0.1% to 1%. Unit shall have operation instructions permanently applied, laser engraved serial number, and a 5-year warranty.

Protector Series Industrial Monitor - Rated up to 1250 gpm, the Protector is an industrial-type fixed station monitor. The unit shall have a patented waterway design with integral stream shaping vane to reduce friction loss and have an optional built-in on/off valve with position indicator (specify). The unit can be directly bolted to many common pipe flanges (specify flange size) and the outlet shall be available with 2-1/2" male threads. Threaded ports (1/4" FNPT) shall be provided for drain valve and pressure gauge installation and maximum operating pressure shall be 250 psi. The unit shall require no grease or other maintenance and swiveling elements and seals (including valve seat) shall be easily replaced. The Protector shall be hardcoat anodized aluminum alloy. The monitor shall have a powder coat finish inside and out. Swivel clamps, 3" valve ball, trunnions, and hardware shall be stainless steel. Unit shall have laser engraved serial number and a 5-year warranty.

QuadraFog® Selectable Gallonage Nozzle Series - Lightweight fog and straight stream nozzles with multiple constant gallonage settings. Nozzles shall have fixed fog teeth or stainless steel spinning teeth (specify), a protective front bumper, and shall be available with either stainless steel ball shut-off and quick-change polymer valve seat, or twist shut-off. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. The extruded aluminum alloy body shall be hardcoat anodized with stainless steel components, and reflective labeling shall be standard. The nozzle shall have a swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (except tip-only models), and nozzles shall accept the low expansion and multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

Quad Stacked Smooth Bore Tips 2-1/2" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Inlet shall be 2-1/2" swivel coupling. Each tip shall be laser engraved with flow/pressure chart, orifice size and thread size. Tip sizes shall be 2", 1.75", 1.5" and 1.375". Unit shall be covered by a 5-year warranty.

Quad Stacked Smooth Bore Tips 3-1/2" Inlet - Smooth bore tips shall be constructed

of corrosion resistant, hard coat anodized aluminum alloy. Inlet shall be 3-1/2" swivel coupling with integral stream straightener. Each tip shall be laser engraved with flow/pressure chart, orifice size and thread size. Tip sizes shall be 2.75", 2.5", 2.25" and 2". Unit shall be covered by a 5-year warranty.

Quarter-Turn Hydrant Valve - The lightweight quarter-turn ball hydrant valve shall be configured with a 2-1/2" female rocker lug or long handle swivel inlet and 2-1/2" male rigid outlet. The unit shall have quarter-turn aluminum ball valve with full 2-1/2" waterway, and folding Nylon handle with auto-lock feature. A 3/4" NPT female plugged bleeder valve port shall be standard. For corrosion resistance the valve shall be hardcoat anodized and shall have a durable silver powder coat interior and exterior finish. The unit shall be covered by a five-year warranty.

Res-Q-Me - The Res-Q-Me rescue tool shall include a spring-loaded tool-steel punch for breaking tempered glass and shall have a recessed stainless steel blade for cutting seat belts. The unit shall have a detachable ring that will allow attachment to a key ring, and be capable of quick detachment for use. The punch and blade shall be protected to allow for safe handling. Unit shall be covered by a 5-year warranty.

Res-Q-Rench - Folding multi-purpose tool shall be made from lightweight and durable nylon with stainless steel components. The unit shall include carbide tip point for breaking tempered glass, a spanner wrench to fit 1-1/2" to 2-1/2" rocker lug couplings and most 4" and 5" Storz couplings. A durable, recessed stainless steel blade for cutting seat belts and other web-type materials shall be included. A prying tool, oxygen bottle valve wrench, and residential gas valve shut off that fits many gas valves shall be standard. Unit shall be covered by a 5-year warranty.

Selectable Electric Remote Nozzle Series - Lightweight fog and straight stream nozzles with constant gallonage settings that may be infinitely adjusted from 15-120 gpm @ 100 psi. Nozzles shall have a molded rubber bumper with "power fog" teeth. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. The nozzle shall flush without shutting down. The electric motor shall have a manual override. Nozzles shall accept the FJ-U low and FJ-UMX multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

SHO-FLOW Electronic Flow Indicator - The SHO-FLOW Electronic indicator shall have digital display of pressure and flow in one unit. The body shall be lightweight machined hard coat anodized aluminum. The unit can be installed behind a nozzle, at the pump panel, or anywhere flow or pressure measurement is required. The unit shall be powered by a 9-volt lithium long life battery and shall be capable of cold temperature operation. User programmable high-flow and low-flow set points to warn operator of improper water flow shall be standard. 1-1/2" or 2-1/2" NH, BSP and NPSH inlet and outlet threads shall be available (specify). The unit shall have female swivel inlet and male outlet. Unit shall be covered by a 5-year warranty.

Smooth Bore Insert Set - Set shall include 7/8", 15/16", 1", and 1-1/8" orifice smooth bore inserts made of durable, polymer material and shall have orifice size laser engraved. Units shall be capable of being installed in the stainless steel ball of the 140 series ball valves and outlet waterway of the VIT series valves. Insert set shall be covered by a 5-year warranty.

Smooth Bore Tips 1" Inlet Set (Forestry) - Set of six interchangeable smooth bore tips shall be constructed of corrosion resistant, high strength nylon. One 1" hard coat anodized aluminum alloy coupling with rubber gasket shall be included. Smooth bore tips shall be marked with orifice size. Smooth bore tip set shall include one tip each of 1/8", 3/16", 1/4", 5/16", 3/8" and 7/16" orifice size. Units shall be covered by a 5-year warranty.

Smooth Bore Tip 1-1/2" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Smooth bore tips shall be laser engraved with orifice size and inlet thread size. 1.5" inlet is standard with a choice of 1/2", 5/8", 3/4", 7/8", 15/16", 1", 1-1/8" and 1-1/4" orifice sizes (specify). Unit shall be covered by a 5-year warranty.

Smooth Bore Slug Tip 1-1/2" Inlet & Outlet - Smooth bore slug tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Smooth bore tips shall be laser engraved with orifice size, flow and pressure chart, and inlet/outlet thread size. 1-1/2" inlet is standard with a choice of 7/8" or 15/16" orifice sizes (specify). A set screw for secure attachment to valve shall be included. Unit shall be covered by a 5-year warranty.

Spanner Wrench Set w/Bracket - Set of 4 spanner wrenches and mounting bracket shall be made from aluminum alloy. Spanner shall fit most 2-1/2" through 5" rocker lug and Storz couplings. Unit shall be covered by a 5-year warranty.

Spanner Wrench - Spanner wrench shall be made from aluminum alloy. Spanner shall fit most 2-1/2" through 5" rocker lug and Storz couplings. Unit shall be covered by a 5-year warranty.

PRODUCT GROUP SPECIFICATIONS

Swiveling Detent Elbow - 30° elbows shall be constructed of corrosion resistant, hard coat anodized aluminum alloy, with stainless steel components. The 30° inlet elbow shall swivel 360° and have multiple positive detents to prevent hose kinking and coupling stress. The units shall meet a 900 psi hydrostatic strength test. Elbows shall meet NFPA 1965 (2003 edition). The unit shall have a silver powder coat finish inside and out. All hose couplings shall use a polymer bearing ring for prevention of galvanic corrosion. Unit shall have a chain/lanyard attachment anchor point, be available with a choice of hose threaded or Storz couplings (specify), have a serial number, and be covered by a 5-year warranty.

Suction Strainer (Barrel) - The strainer shall be made from molded nylon with hard anodized aluminum couplings with corrosion resistant nylon bearing strip. Strainer shall have large eye for rope attachment. Strainer shall have serial number and a 5-year warranty.

Suction Strainer (Low Level) - The strainer shall be made from hard anodized and powder coated aluminum alloy and stainless steel. Suction hose coupling shall be attached with corrosion resistant nylon bearing strip, allowing easy swiveling. A large clog-resistant stainless steel filter screen shall be standard and allow clearing without tools. Low level strainer shall be designed to allow suction from minimal depths with minimal friction loss. Suction hose coupling pivot shall have 45° range of motion. Optional jet siphon shall have 1-½" swivel connection, and cap with lanyard attached. A large carrying handle shall be standard. Strainer shall have serial number and a 5-year warranty.

Tapered Reducing Adapter - Tapered nozzle adapter shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Units shall be available in 2-½" female inlet by 1-½" male outlet or 1-½" female inlet by 1" male outlet (specify) and shall have smooth internal taper. Unit shall be covered by a 5-year warranty.

ThunderFog® Selectable Gallonage Nozzle Series - Lightweight fog and straight stream nozzles with multiple constant gallonage settings. Nozzles shall have fixed fog teeth or stainless steel spinning teeth, a protective front bumper, and shall be available with either stainless steel ball shut-off and quick-change polymer valve seat, or twist shut-off. Valve handle shall be produced from high strength molded nylon and shall be provided with positive open and close stops. The extruded aluminum alloy body shall be hardcoat anodized with stainless steel components, and reflective labeling shall be standard. The nozzle shall have a swivel inlet (except tip-only models), flush without shutting down and meet NFPA 1964 (2008 edition). Color-coded, injection molded nylon pistol grips and handle covers shall be available (except tip-only models), and nozzles shall accept the FJ-MX-FT multi-expansion foam attachment. Nozzle shall have laser engraved serial number and a 5-year warranty.

Tornado Monitor Series - Rated up to 500 gpm, the Tornado is a truck mounted monitor. The tiller handle shall provide elevation control from 90° above horizontal to 45° below horizontal. The unit shall have a full 360° continuous horizontal rotation with locking knob. The monitor shall be constructed of hard coat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Unit shall have serial number and a 5-year warranty.

Tornado RC Monitor Series - Rated up to 500 gpm, the Tornado is a remotely controlled truck mounted monitor with electric remote control of rotation and elevation angle and nozzle pattern. The electric motor shall provide elevation control from 90° above horizontal to 45° below horizontal. The unit shall have an electronically operated 370° horizontal rotational travel, user installed travel limit stops, stainless steel worm gear drive with manual override knobs, and shall have grease zerk fittings for easy service and lubrication. User operation controls shall be mounted on the monitor, and shall include rotation, elevation, and nozzle stream pattern control programmable park and oscillate and two auxiliary controls. Optional remote wired, tethered and wireless remote controls shall be available. The discharge elbow shall include an integral stream straightener. The monitor shall be constructed of hard coat anodized aluminum alloy and shall have a silver powder coat finish inside and out. Unit shall have serial number and a 5-year warranty.

Triple Stacked Smooth Bore Tips 1-½" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Each tip shall be laser engraved with flow/pressure chart, orifice size and thread size. Tip sizes shall be 1.25", 1.125", and 1". Unit shall be covered by a 5-year warranty.

Triple Stacked Smooth Bore Tips 2-½" Inlet - Smooth bore tips shall be constructed of corrosion resistant, hard coat anodized aluminum alloy. Inlet shall be 2-½" swivel coupling. Each tip shall be laser engraved with flow/pressure chart, orifice size and thread size. Tip sizes shall be 1.5", 1.25" and 1". Unit shall be covered by a 5-year warranty.

Twister® Dual Gallonage Series - Lightweight fog and straight stream nozzles with dual gallonage settings shall be provided. Nozzles shall have fixed fog teeth, a protective front bumper, twist shut-off and shall be available with stainless steel ball shut-off and quick-change polymer valve seat. Valve handle shall be produced from high strength molded

nylon and shall be provided with positive open and close stops. The extruded aluminum alloy body shall be hardcoat anodized and reflective labeling shall be standard. Color-coded, injection molded nylon pistol grips and valve handle covers shall be available (except for tip only models) and nozzles shall accept the FJ-MX-D (1-½") and FJ-MX-F (2-½") multi-expansion foam attachment. Nozzle shall have laser engraved serial number and a 5-year warranty.

Typhoon Monitor Series - Rated up to 1500 gpm, and 200 psi, the Typhoon is a manually operated fixed station or truck mounted monitor with manual control of rotation and elevation angle. A handwheel or tiller handle with locking knob (specify) shall provide elevation control from 90 degrees above to 45 degrees below horizontal. A handwheel or tiller handle shall provide 360 degree continuous horizontal rotation. The discharge elbow shall include an integral stream straightener. The monitor shall be constructed of hardcoat anodized aluminum alloy and shall have a silver powdercoat finish inside and out. Unit shall have serial number and a 5 year warranty.

Typhoon RC Monitor Series - Rated up to 1500 gpm, and 200 psi, the Typhoon RC is a remotely controlled fixed station or truck mounted monitor with electric remote control of horizontal rotation, elevation, and nozzle pattern. The unit shall have an electrically operated elevation control from 45 degrees below horizontal up to a maximum of 45 degrees past vertical for a total possible travel of 215 degrees (specify). Unit shall have elevation travel limit stops that can reduce the travel to 20 degrees past vertical or less in 10 degree increments. The unit shall have an electrically operated 450 degree maximum horizontal travel, stainless steel worm gear, and horizontal travel limit stops in 45 degree increments. Knobs shall be mounted on the vertical and horizontal drives for manual override. User operation controls shall be mounted on the monitor, and shall include rotation, elevation, and nozzle stream pattern control, programmable park and oscillate and two auxiliary controls. Optional remote wired, tethered, and wireless remote controls shall be available. The discharge elbow shall include an integral stream straightener. The monitor shall be constructed of hardcoat anodized aluminum alloy and shall have a silver powdercoat finish inside and out. Unit shall have serial number and a 5 year warranty.

Ultimatic® Series - Lightweight fog and straight stream nozzles with constant pressure / variable gallonage operation of 10-125 gpm @ 100 psi or 10-100 gpm @ 75 psi (specify) shall be provided. Nozzles shall have a molded rubber bumper with "power fog" teeth, a stainless steel slide valve with detent flow control, (except tip-only models) and inlet debris screen. The extruded aluminum alloy body shall be hardcoat anodized, and reflective labeling shall be standard. The nozzle shall have a full-time swivel inlet (except tip-only models) and the ability to flush without shutting down. Color-coded, injection molded nylon pistol grips and valve handle covers shall be available. Nozzles shall accept the FJ-U low and FJ-UMX multi-expansion foam attachments. Nozzle shall have laser engraved serial number and a 5-year warranty.

VIT Valve Integral Tip Ball Valve Series With Inserts - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Lightweight valve with detent flow control shall include 7/8", 15/16", 1", and 1 1/8" orifice inserts made of durable, lightweight nylon material and shall have orifice size laser engraved. Discharge shall have 1-½" thread for coupling to a combination nozzle. Internal waterway shall be 1.375". Color-coded, injection molded nylon pistol grips and valve handle covers shall be available. Rubber covered playpipe handles are available on 2-½" models. Nozzle shall have a full-time swivel inlet, laser engraved serial number, and a 5-year warranty.

VIT Valve Integral Tip Ball Valve Series - Valve body shall be constructed of corrosion resistant, hardcoat anodized extruded aluminum alloy. Lightweight valve with detent flow control shall be available with 7/8", 15/16", 1", 1-1/4" or 1-3/8" orifice (specify). The unit shall have orifice size laser engraved. Discharge shall have 1-½" thread with retractable outlet thread protector for coupling to a combination nozzle. Internal waterway shall be 1.375". Color-coded, injection molded nylon pistol grips and valve handle covers shall be available. Nozzle shall have a full-time swivel inlet, laser engraved serial number, and a 5-year warranty.

VUM Valve Under Monitor Series - Valve shall be designed for use under monitors and have low friction loss through its large, unobstructed waterway. Valve shall be constructed of hard coat anodized aluminum alloy and have silver TFT-powdercoat finish inside and out for maximum corrosion protection. Hardware and half-ball valve section shall be stainless steel and shall control water flow at the base of the monitor. Valve inlet base shall be 4" ANSI 150 flange. Various outlets for monitor connection are available including 4" ANSI 150 flange; or straight or 22.5° forward angle for direct TFT monitor connection eliminating one flange (specify). Monitor valve control shall be controlled by a compact gear box mounted hand crank or side handwheel (specify) that meets NFPA 1901 slow-close requirements, and handwheel shall be reversible from side to side and shall have shaft extensions available for improved clearance (specify). An optional automatic drain valve (specify) shall be available in the stainless steel half-ball section to assist in draining water after the incoming water pressure is shut off. Four (4) auxiliary ports shall allow installation of straight or elbow 2-½" valves, hose or pipe threaded

fittings, (specify) to allow water flow through these connections when the primary monitor valve is opened, closed or in an intermediate position. Blind plugs shall be installed in the auxiliary ports when other connections are not installed. Elbow and straight 2-½" valves shall have field replaceable valve seats, quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure. Automatic valve lock on 2-½" valve keep its position while flowing at partial openings and shall be standard. 2-½" elbow valves shall have the ability to allow swiveling up to 45° or to be locked in place and 4-¾" long extensions shall be available where more clearance from the primary monitor valve is desired (specify). Elbow and straight valves shall include a 2-½" to 1-½" reducer with 1-½" cap with lanyard. The unit shall have a serial number and a 5-year warranty.

VUM Valve Under Monitor RC Series – Valve shall be designed for use under monitors and have low friction loss through its large, unobstructed waterway. Valve shall be constructed of hard coat anodized aluminum alloy and have silver TFT-powdercoat finish inside and out for maximum corrosion protection. Hardware and half-ball valve section shall be stainless steel and shall control water flow at the base of the monitor. Valve inlet base shall be 4" ANSI 150 flange. Various outlets for monitor connection are available including 4" ANSI 150 flange; or straight or 22.5° forward angle for direct TFT monitor connection eliminating one flange (specify). Monitor valve control shall controlled by an electric motor with manual override knob and shall meet NFPA 1901 slow-close requirements. The override knob shall be reversible from side to side and shall have shaft extensions available for improved clearance (specify). Electric control of the valve shall be by included control box which shall display open, closed, and intermediate valve positions. Control box and motor shall be waterproof. Electric control of the valve can be controlled from any TFT RC monitor control auxiliary 2 button. An optional automatic drain valve (specify) shall be available in the stainless steel half-ball section to assist in draining water after the incoming water pressure is shut off. Four (4) auxiliary ports shall allow installation of straight or elbow 2-½" valves, hose or pipe threaded fittings, (specify) to allow water flow through these connections when the primary monitor valve is opened, closed or in an intermediate position. Blind plugs shall be installed in the auxiliary ports when other connections are not installed. Elbow and straight 2-½" valves shall have field replaceable valve seats, quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure. Automatic valve lock on 2-½" valve keep its position while flowing at partial openings and shall be standard. 2-½" elbow valves shall have the ability to allow swiveling up to 45° or to be locked in place and 4-¾" long extensions shall be available where more clearance from the primary monitor valve is desired (specify). Elbow and straight valves shall include a 2-½" to 1-½" reducer with 1-½" cap with lanyard. The unit shall have a serial number and a 5-year warranty.

Water Thief 2-½" by 1-½" – Water Thief shall have full 2-½" and 1-½" inch waterways, field replaceable valve seats, quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure from either side of the valves. Automatic valve lock on 2-½" inch valve keep its position while flowing at partial openings and shall be standard. Special internal contour on 1-½" valves keeps them in position while flowing shall be standard. Units shall include three folding valve

handles to minimize storage space. Pipe threaded port for pressure gauge shall be included. Unit shall have a carrying strap. Aluminum casting shall be hardcoat anodized and silver TFT-powdercoat finish inside and out for maximum corrosion protection. The unit shall have a serial number and a 5-year warranty.

Water Thief and Siamese - LDH by 2-½" LDH Water Thief and Siamese shall have full 2-½" waterway valved ports with field replaceable valve seats, quarter turn valve handles with low force to move even under pressure with up to 250 psi (17 bar) maximum operating pressure from either side of the valves. Automatic valve lock on 2-½" inch valves keep their position while flowing at partial openings and shall be standard. Units shall include two folding valve handles to minimize storage space. Large diameter inlet and outlet ports shall have full flow through, corrosion resistant polymer bearing strip, and be available in threaded or Storz connections (specify). Unit shall have a strap for carrying and dragging hose. Aluminum casting shall be hardcoat anodized and silver TFT-powdercoat finish inside and out for maximum corrosion protection. Water thief shall have male thread on 2-½" valved ports and Siamese shall have female swivel threaded connections on 2-½" valved ports. Maximum operating pressure of the unit shall be 250 psi. An optional, adjustable pressure relief valve shall be available. The unit shall have a serial number and a 5-year warranty.

ZM Industrial Fixed Gallonage Nozzle Series – A fixed gallonage adjustable straight stream/fog nozzle available with 500, 750, 1000, or 1250 gpm @100 psi, or user specified Kfactor flow setting (specify) and 2-½" female inlet shall be provided. Nozzle shall be capable of flowing water or foam solution. Fog angle is user adjustable between 120° wide fog and straight stream. Unit's baffle shall be removable with a wrench for flushing debris. Unit requires no grease or other maintenance. The unit shall be hardcoat anodized ANSI A356.0.T6 aluminum. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.

ZN Industrial Nozzle Series – A simple and rugged industrial nozzle with superior stream quality and reach. This fixed gallonage fog nozzle rated at 100 psi is available with your choice of 350, 500 or 750 gpm. Fog angle is user adjustable between 120° wide fog and straight stream. Units baffle shall be removeable with a wrench for flushing debris. Unit requires no grease or other maintenance. The stream shaper shall be made from non-corroding high temperature polymer. The rubber bumper shall be UV resistant. Unit shall be hardcoat anodized ANSI A356.0.T6 aluminum. Unit shall have reflective labeling, engraved serial number, and be covered by a 5-year warranty.

STANDARDS REFERENCED IN THE CATALOG

NFPA 1963 (2009)- Standard for Fire Hose Connections

NFPA 1964 (2008)- Standard for Spray Nozzles

NFPA 1901 (2009)- Standard for Automotive Fire Apparatus

FM 5511 (2005)- Firefighting Nozzles for Use with Hose, Monitor Assemblies and other Firefighting Equipment

FM 1421 (2007)- Monitor Assembly

ISO 228-1:1994- Pipe Threads where Pressure-Tight Joints are Not Made on Threads- Part 1: Dimensions, Tolerances and Design

ISO 228-2: 1987- Pipe Threads where Pressure-Tight Joints are Not Made on Threads- Part 2: Verification by Means of Limit Gauges

ANSI/ASME B1.20.1-1983 (R1992)- Pipe Threads, General Purpose (inch)

CE- Refers to the following:

IEC 61000-6-3 (2006) General Standards- Emission Standard for Residential, Commercial and Light Industrial Environments

IEC 61000-6-2 (2005) Generic Standards- Immunity for Industrial Environments

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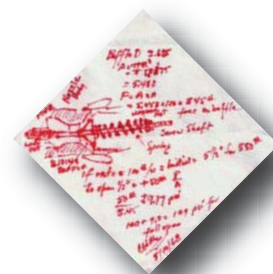


On Wednesday, September 16, 2009 at 9 a.m. the doors of the company's new World headquarters officially opened for business.

Few who drive up to the building's entrance will even think about it housing the world's most innovative manufacturer of firefighting equipment. Rather, TFT's two story, red-bricked firehouse "façade" – complete with twin bright red fire station doors and hand cut regional white limestone – will more likely remind visitors of the fire stations of childhood memories and dreams.

Guests coming through the front doors enter immediately into a world of memorabilia and treasures – TFT's very own firefighting museum. This two story showplace traces the company from its very beginnings in the fall of 1971 (in the basement of the McMillan home on Michigan Avenue in Hobart, Indiana).

On one wall, guests will see the single cocktail napkin (measuring 4 by 4 inches) upon which the late Clyde McMillan sketched out plans for the world's first "automatic" nozzle. The revolutionary design – sketched with red felt tipped pen in 1968 – has since become an industry standard. This unique idea allowed the nozzle to automatically open or close while maintaining the same pressure – much like a person putting his or her thumb on the end of a garden hose to regulate and produce a steady stream.



1883 Piano Style Engine
from Westville, IN FD



1890 Silsby Steam Engine
from Clintonville, WI FD



1923 Seagrave Engine
from Valparaiso, IN FD

TFT's new location will also allow a central base for TFT University – an ongoing program that enhances participant's job skills through product and operational awareness activities and discussions. The program's incredible growth both on campus and on the road are the result of hands-on demonstrations, coupled with hand-tailored targeted workshops.

Being in one location allows the Service and Technical Support Team, consisting of firefighters, mechanical and electrical engineers, repair technicians and equipment testers, to share an office/work area and be available from 7 a.m. to 6 p.m. CST, Monday through Friday. TFT's service team can be reached by email sts@tft.com or by calling toll-free to 800 348 2686 or 1 219 462 6161. Should the need arise, a team member is on call 24 hours, 7 days-a-week.



The receptionist's desk, is the actual front end of a fire truck complete with lights and siren.

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