



NORGREN EXPRESS

PNEUMATIC MOTION AND FLUID CONTROL PRODUCTS

1.800.514.0129

NorgrenExpress.com



NORGREN
Express

When you need it **fast**.

Welcome to

NORGREN EXPRESS

your location for

Service – Quality – Delivery

WHEN YOU NEED IT FAST

With thousands of industry leading pneumatic motion and fluid control products stocked for express delivery, we make it easier for you to get the job done.

EXPERT SERVICE

Our local Express team is fully trained to help find the products you need quickly, minimizing downtime.

Our skilled teams are on hand 7:30 am to 5:00 pm (MST) Monday to Friday, and backed by 24/7 access to the Norgren website.

DEPENDABLE QUALITY

Customers around the world select Norgren products for industry renowned reliability and quality.

In this catalog are thousands of Norgren branded products and many familiar brands such as Pneufit®, Herion, Lintra®, Excelon®, and Fleetfit.

All our Norgren Express products are manufactured to exacting quality standards and are backed by an industry leading 2-year warranty.

TRUSTED DELIVERY

Place your order over the web or through our friendly phone representatives and then rely on Norgren to deliver your product on-time with the performance and quality you expect. The website provides easy access to product information as well as current pricing and availability. Order acknowledgements and shipping tracking information make it easier to manage your business.

Phone or email the **Express Team** for a fast and friendly service today.

Service, Quality, Delivery – Try Norgren Express today

When you need it **fast**.

Look out for...

TECHNICAL DATA

Most of our products have associated technical data sheets and CAD drawings available to download.



NORGREN RESPONSIBLE BUSINESS

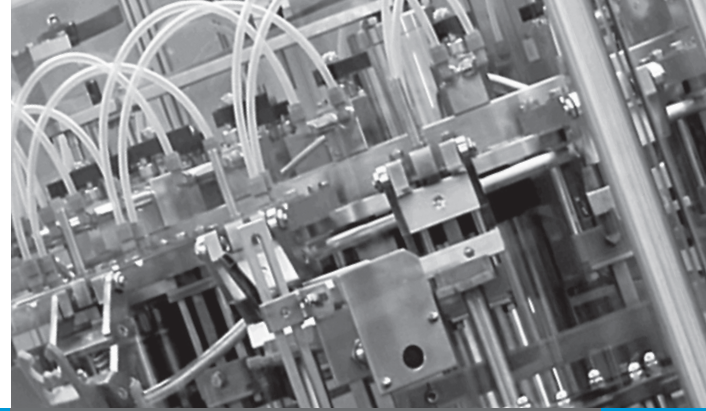
Wherever you see this symbol these products are representative of our commitment to responsible business



ACCESSORIES

To save time, we'll recommend other complementary products.

PRODUCTS



Actuators

ACT-2 FAST FIND GUIDE
ACT-4 NFPA CYLINDERS
ACT-16 ISO/VDMA CYLINDERS
ACT-20 ROUNDLINE PLUS STAINLESS STEEL
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Valves

VAL-3 VALVE MANIFOLDS
VAL-4 SUBBASE VALVES
VAL-12 IN-LINE AND MANIFOLD VALVES
VAL-22 MANUAL/MECHANICAL VALVES
VAL-37 SAFETY VALVES

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Pressure Switches

PSC-3 PROPORTIONAL PRESSURE CONTROL VALVES
PSC-5 ELECTRONIC PRESSURE SWITCHES
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Airline Preparation (Filters, Regulators, Lubricators)

ALE-4 EXCELON® PRO MODULAR SYSTEM
ALE-14 EXCELON MODULAR SYSTEM
ALE-28 MINIATURE SERIES, GENERAL PURPOSE
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ALE-41 SPECIAL PURPOSE PRODUCTS
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Fittings, tubing & accessories

FIT-4 PUSH-IN FITTINGS
FIT-28 MUFFLERS, SILENCERS, BREATHER VENTS
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1

Order Online – 4 Easy Steps



Find

Click on product tabs to see the comprehensive product sections and navigate to our detailed product information pages. Search over 10,000 catalogue stocked products by complete or partial part number, as well as our full extended range.

Select

Each product page provides detailed technical information, accessories, datasheets, CAD drawings and price and availability.

Buy

Add 10 items straight to your basket in one click using our **Quickbasket** or copy large lists of items directly from your purchasing system, spreadsheet, email or word document directly into **Pastebasket**. You can order securely online 24/7 with instant email acknowledgment and user defined account settings allowing access levels and spend limits.

Track

Track your order instantly using the tracking link in order history. You'll be notified by email when the items are shipped.

Quickbasket

Know what you want?

Type in up to 10 part numbers and order in one click...



Order history

Find previous orders quickly, get line-by-line status and re-order any items in just a few clicks. We keep your order history for you so you don't have to search on every visit.

Visit today and experience it for yourself store.norgren.com

With Norgren Express – it's easy!

Our new catalog is even easier to navigate, easier to find parts and easier to order.

EASY PRODUCTS

Each product page now has a full listing of part numbers, a technical summary, a photo, all fitting information and options for all the information you need in one place.

Further information, technical datasheets and CAD drawings are available online for most products.

EASY INDEX

For first time users our new index is listed by product description, so if you don't know the part number, you can navigate straight to the section or page you require. For existing users, we also have a part number index to take you directly to the product (see Index at back of catalog).



More technical
information
available online



PDF available
online



Product available
online



CAD drawing
available online

And remember... we have the ability to configure all variants on a rapid service, so if you can't find what you want, call the Express Team.

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Phone and Online Support

Norgren is a clear leader in the field of quality pneumatic and fluid control products/solutions.

Norgren Express is dedicated to service the replacement market. Customers needed easy and rapid access to the new and more established product ranges. Norgren Express offers customers a reliable replacement service they can trust.

Call our **Express Team** directly at **1.800.514.0129**

First class telephone support comes as standard but in addition we offer a full range of online services for immediate access:

- **CAD:** available in 15 formats, drawings are downloadable in 2 and 3D models
- **WEBSTORE:** Check price and availability, place orders, check order history, save quotes and parts lists and track parcels all 24/7
- **DATA LIBRARY:** Thousands of data sheets to download
- **AOD:** Answers on demand, check price and availability in real time via email
- **VALVE ISLAND CONFIGURATOR:** Configure the optimum solution for your application



Rapid, reliable service

The range in this catalog has been put together to help you find replacement parts from our classic product ranges and specify for new projects. As well as established ranges this catalog also brings you our latest products including the new Excelon Pro FRL. Feel free to browse these products and call us for further information.



Welcome to Norgren Express!

The Norgren Express team, located in Littleton, Colorado, is 100% committed to exceeding your Service, Quality and Delivery expectations.

With thousands of products in stock and a world-class technical support team, we want to be your preferred choice in pneumatic and fluid control solutions.

Call us today at **1.800.514.0129** for prompt, professional service.

Regards

The Norgren Express Team



Actuators



Includes NFPA Aluminum and Rodless, ISO/VDMA, and Round body compact cylinders. The Norgren Express catalog lists the part numbers of hundreds of configurations, available for rapid delivery. Alternate configurations are also available and are just a phone call or email away. Contact the Express Team for fast, expert advice. All the accessories are clearly listed to help ensure you get all the parts needed to get the job done.

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ACT-1

Fast Find Guide

NFPA CYLINDERS

NEN SERIES NFPA ALUMINUM CYLINDERS Ø 1-1/2" TO 4"



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NFPA A-SERIES ALUMINUM CYLINDERS Ø 1-1/2" TO 4"



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ISO/VDMA CYLINDERS

ISO/VDMA CYLINDERS Ø 32 to 320 mm



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ISO/VDMA PROFILE CYLINDERS Ø 32 to 120 mm



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ROUNDLINE CYLINDERS

ROUNDLINE PLUS STAINLESS STEEL CYLINDERS Ø 5/16" to 3"



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COMPACT CYLINDERS

F-SERIES PLUS Ø 9/16" to 4"



Page ACT-29

LINTRA® Rodless Cylinders

LINTRA PLUS C/146000 Ø 25 to 63 mm



Page ACT-31

SWITCHES

MAGNETICALLY OPERATED SWITCHES



Page ACT-36



DON'T GET STOPPED BY A BREAKDOWN

NORGREN'S **FAST TRACK ACTUATOR** SERVICE CAN HELP

Call the Express Team today for
a rapid reliable service

- » Two-year warranty
- » Magnetic piston option for use with switch sensing
- » Full range of available mountings

DELIVERING»**ADVANTAGE**



NEN SERIES NFPA ALUMINUM CYLINDERS

Ø 1-1/2" to 4" bore size

- Competitively priced
- Magnetic piston standard
- Adjustable cushion standard
- Sleeve nut construction standard
- Stocked strokes

TECHNICAL DATA

Medium: Filtered compressed air
Operating temperature: -25°F to 140°F (-5°C to 60°C)
Operating Pressure:
 Minimum 7 psi (.5 bar)
 Maximum 140 psi (9.7 bar)
Bore Sizes: 1-1/2", 2", 2-1/2", 3-1/4", 4"
Rod Diameter: 5/8" dia. 1-1/2", 2", 2-1/2" bore
 1" dia. in 3-1/4" and 4" bore
Lubrication: None required
Materials
 Head and End Caps: Die cast aluminum painted for corrosion protection.
 Tube: Aluminum alloy, hard coat anodized
 Piston: machined high-strength aluminum casting.
 Rod Bearing: clean metal teflon composite
 Seals: nitrile rod seal/wiper, nitrile piston seals, nitrile tube end seals
 Tie Rods: Nickel plated high-tensile strength steel.



Switches

M/NEN/A	Reed
M/NEN/N	Solid state

Switch Bracket

Bore	Bracket
1-1/2"	QM/NEN1/SB
2" - 2-1/2"	QM/NEN2/SB
3-1/4" - 4"	QM/NEN3/SB

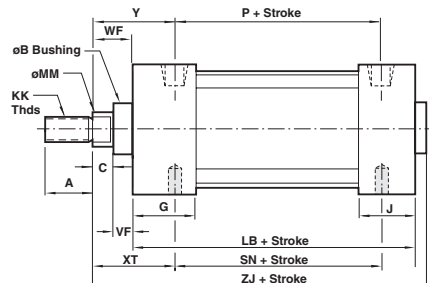
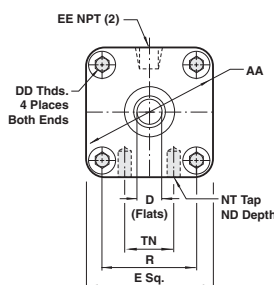
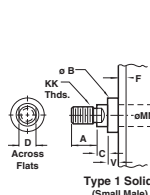
Mounting Kits

Bore	MF1/MF2	MP1	MP2
1-1/2	MK-NENC-MF1	MK-NENC-MP1	MK-NENC-MP2
2	MK-NEND-MF1	MK-NEND-MP1	MK-NEND-MP2
2-1/2	MK-NENE-MF1	MK-NENE-MP1	MK-NENE-MP2
3-1/4	MK-NENF-MF1	MK-NENF-MP1	MK-NENF-MP2
4	MK-NENG-MF1	MK-NENG-MP1	MK-NENG-MP2

Accessories

Bore	Rod Eye	Rod Clevis	Eye Bracket
1-1/2	NENC-RE	NENC-RC	NENC-EB
2	NENC-RE	NENC-RC	NENC-EB
2-1/2	NENC-RE	NENC-RC	NENC-EB
3-1/4	NENF-RE	NENF-RC	NENF-EB
4	NENF-RE	NENF-RC	NENF-EB

NFPA (MS4) side tap mount standard



Dimensions

Bore	Ø Rod	A	AA	B	BA	C	CC	D	DD	E	EE	G	J	KK
1-1/2"	5/8"	0.750	2.02	1.124	1.125	0.375	1/2-20	0.562	1/4-28	2.000	3/8	1.260	1.010	7/16-20
2	5/8"	0.750	2.600	1.124	1.125	0.375	1/2-20	0.562	5/16-24	2.500	3/8	1.260	1.060	7/16-20
2-1/2"	5/8"	0.750	3.100	1.124	1.125	0.375	1/2-20	0.562	5/16-24	3.000	3/8	1.300	1.060	7/16-20
3-1/4"	1"	1.125	3.900	1.500	1.250	0.500	7/8-14	0.875	3/8-24	3.750	1/2	1.570	1.180	3/4-16
4"	1"	1.125	4.700	1.499	1.250	0.500	7/8-14	0.875	3/8-24	4.500	1/2	1.570	1.180	3/4-16
Bore	Ø Rod	LB	MM	NT	ND	P	R	SN	TN	VF	WF	XT	Y	ZJ
1-1/2"	5/8"	3.625	0.625	1/4-20	0.281	2.360	1.430	2.250	0.625	0.625	1.000	1.938	1.710	4.750
2"	5/8"	3.625	0.625	5/16-18	0.438	2.400	1.840	2.250	0.875	0.625	1.000	1.938	1.710	4.750
2-1/2"	5/8"	3.750	0.625	3/8-16	0.593	2.480	2.190	2.375	1.250	0.625	1.000	1.938	1.750	4.870
3-1/4"	1"	4.250	1.000	1/2-13	0.625	2.720	2.760	2.625	1.500	0.875	1.375	2.438	2.340	5.820
4"	1"	4.250	1.000	1/2-13	0.625	2.720	3.320	2.625	2.063	0.875	1.375	2.438	2.340	5.820



NEN SERIES ALUMINUM CYLINDERS

1-1/2" to 4" inch bore size

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size NPT	Thread Size NPT	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
								
NEN1CX1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1CX2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1CX3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1CX4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1CX5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1CX6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1CX8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1CX10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1CX12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1DX12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1EX12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
NEN1FX1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1FX2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1FX3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1FX4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1FX5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1FX6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1FX8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1FX10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1FX12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
NEN1GX12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

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ACT-5

NFPA A-SERIES ALUMINUM CYLINDERS

Ø 1-1/2" to 4" bore size

Impact dampening seals

Magnetic piston standard

Adjustable captive cushion needle

Ecology cylinders meet OSHA noise standards

Constructed of the finest materials

TECHNICAL DATA

Medium:

Filtered compressed air to 250 PSI

Operating temperature:

-20°F to 200°F

Operating Pressure:

250 psig

Bore Sizes: 1-1/2", 2", 2-1/2",

3-1/4", 4"

Lubrication:

None required

Materials

Head and End Caps: Black anodized aluminum alloy

Tube: 1-1/2" to 4", Aluminum alloy, clear anodized

O.D., hard coat anodized I.D..

Piston: Machined high-strength aluminum alloy.

Piston rod: hard chrome plated steel

Rod Bearing: oil impregnated sintered iron

Seals: nitrile rod seal, urethane rod wiper, nitrile

piston seals, nitrile tube end seals

Tie Rods: high-tensile strength steel



Switch

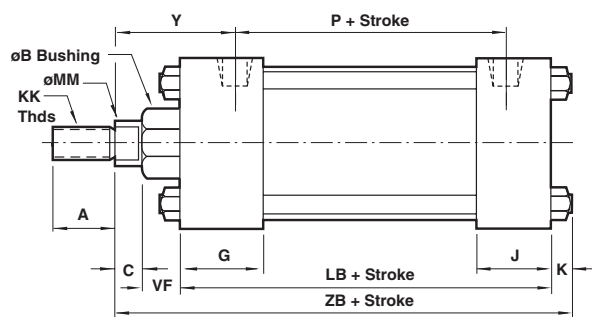
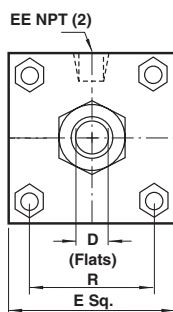
Bore	Model	Type
3/4" - 2-1/2"	CS8-2-04	Reed
3/4" - 2-1/2"	CS8-2-31	Solid state
3/4" - 2-1/2"	CS8-2-32	Solid state
2" - 6"	CS7-04	Reed
2" - 6"	CS7-31	Solid state
2" - 6"	CS7-32	Solid state

Accessories

Bore	Rod Eye	Rod Clevis	Eye Bracket	Rod Alignment Coupler
1-1/2	49015A	49028A	49021	CC-1-07
2	49015A	49028A	49021	CC-1-07
2-1/2	49015A	49028A	49021	CC-1-07
3-1/4	49013A	49030A	49020	CC-1-12
4	49013A	49030A	49020	CC-1-12

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
Ø Rod	5/8"	5/8"	5/8"	1"	1"
A	.750	.750	.750	1.125	1.125
C	.375	.375	.375	.500	.500
D	.500	.500	.500	.813	.813
E	2.000	2.500	3.000	3.750	4.500
EE	.375	.375	.375	.500	.500
G	1.500	1.500	1.500	1.750	1.750
J	1.000	1.000	1.000	1.250	1.250
K	.250	.313	.313	.375	.375
KK	7/16 - 20	7/16 - 20	7/16 - 20	3/4 - 16	3/4 - 16
LB	3.625	3.625	3.750	4.250	4.250
P	2.340	2.340	2.470	2.690	2.690
R	1.428	1.838	2.192	2.758	3.323
VF	.625	.625	.625	.875	.875
Y	1.840	1.840	1.840	2.380	2.380
ZB	4.875	4.938	5.063	6.000	6.000



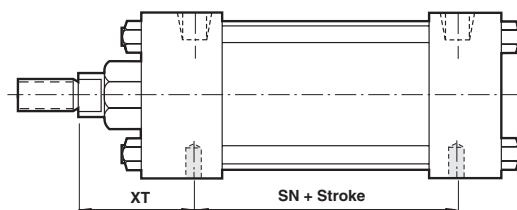
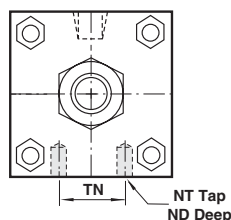
NFPA A-SERIES ALUMINUM CYLINDERS

1-1/2 to 4 inch bore size

Side Tapped (MS4) Non-cushioned

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4 - 20	5/16 - 18	3/8 - 16	1/2 - 13	1/2 - 13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
   								
A0133A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0133B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0133B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



ACT-7

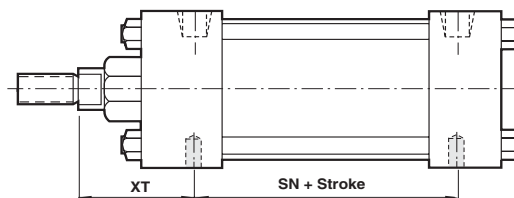
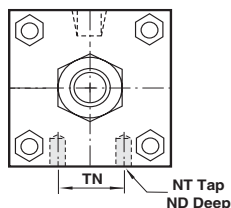
NFPA A-SERIES ALUMINUM CYLINDERS

1-1/2 to 4 inch bore size

Side Tapped (MS4) Adjustable Cushions

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4 - 20	5/16 - 18	3/8 - 16	1/2 - 13	1/2 - 13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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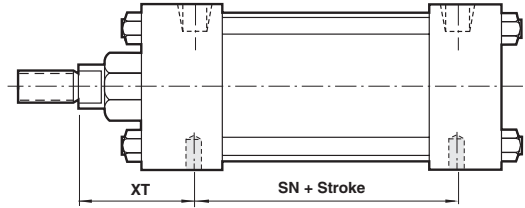
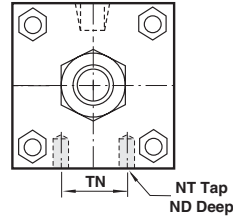


A0177A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0177B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0177B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

Side Tapped (MS4) With Impact Dampening Ecology Seals, fixed cushion

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
ND	0.375	0.375	0.5	0.75	0.75
NT	1/4 - 20	5/16 - 18	3/8 - 16	1/2 - 13	1/2 - 13
SN	2.25	2.25	2.375	2.625	2.625
TN	0.625	0.875	1.25	1.5	2.063
XT	1.938	1.938	1.938	2.438	2.438



Models

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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EA0155A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0155B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0155B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

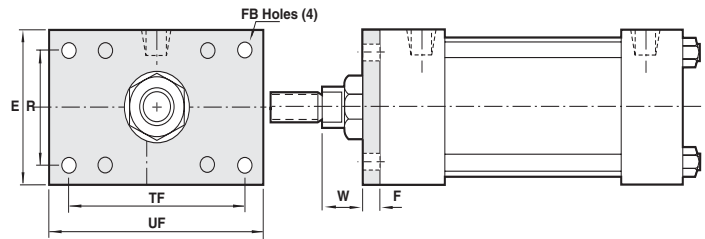
NFPA A-SERIES ALUMINUM CYLINDERS

1-1/2 to 4 inch bore size

Front Flange (MF1) Non-cushioned

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



Models

Model Number	Cylinder Bore	Stroke	Port Size
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Accessories

Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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A0333A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0333B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0333B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

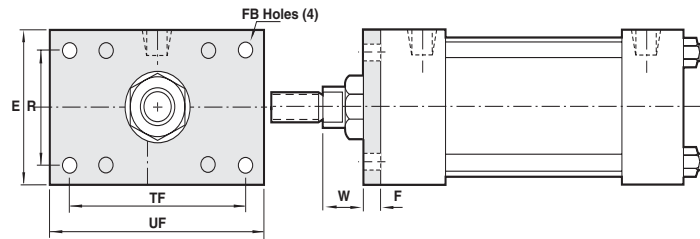
NFPA A-SERIES ALUMINUM CYLINDERS

1-1/2 to 4 inch bore size

Front Flange Mount (MF1) Adjustable Cushions

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



Models

Model Number	Cylinder Bore	Stroke	Port Size
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Accessories

Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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A0377A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A0377B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A0377B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

Service – Quality – Delivery

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ACT-11

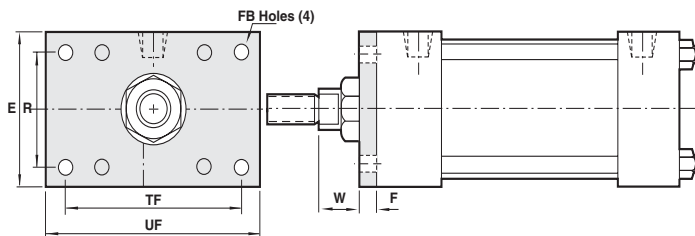
NFPA A-SERIES ALUMINUM CYLINDERS

1-1/2 to 4 inch bore size

Front Flange Mount (MF1) With Impact Dampening Ecology Seals and fixed cushion

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
E	2	2.5	3	3.75	4.5
F	0.375	0.375	0.375	0.625	0.625
FB	0.313	0.375	0.375	0.438	0.438
R	1.428	1.838	2.192	2.758	3.323
TF	2.75	3.375	3.875	4.688	5.438
UF	3.375	4.125	4.625	5.5	6.25
W	0.625	0.625	0.625	0.75	0.75



Models

Model Number	Cylinder Bore	Stroke	Port Size
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Accessories

Thread Size	Tube	Straight Fitting	90° swivel Elbow Fitting	Banjo Flow Control
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EA0355A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA0355B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA0355B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

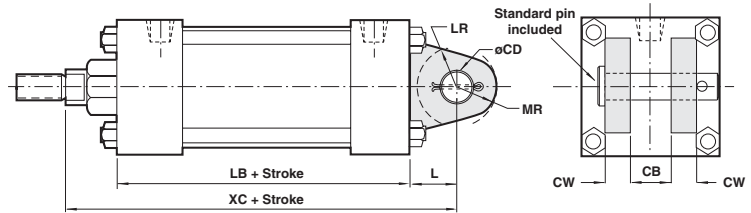
NFPA A-SERIES ALUMINUM CYLINDERS

1-1/2 to 4 inch bore size

Fixed Cap Clevis Mount (MP1) Non-cushioned

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



Models

Model Number	Cylinder Bore	Stroke	Port Size
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Accessories

Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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A1233A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1233B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1233B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



ACT-13

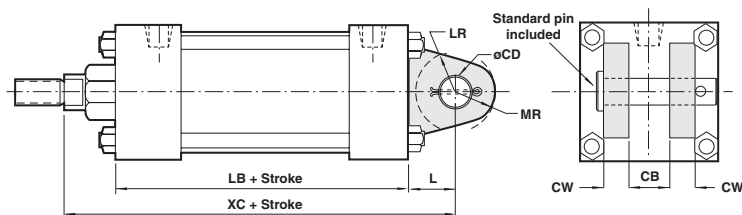
NFPA A-SERIES ALUMINUM CYLINDERS

1-1/2 to 4 inch bore size

Fixed Cap Clevis Mount (MP1) Adjustable Cushions

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	√4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



Models

Model Number	Cylinder Bore	Stroke	Port Size
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Accessories

Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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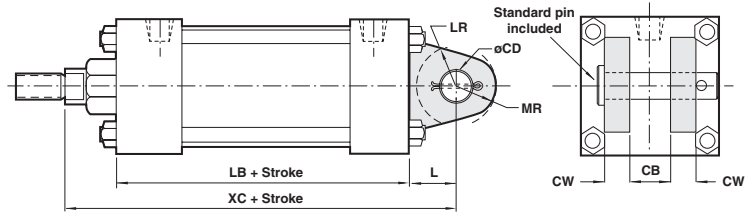


A1277A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
A1277B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
A1277B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

Fixed Cap Clevis Mount (MP1) With Impact Dampening Ecology Seals and fixed cushion

Dimensions

Bore	1-1/2"	2"	2-1/2"	3-1/4"	4"
CB	0.75	0.75	0.75	1.25	1.25
CD	0.5	0.5	0.5	0.75	0.75
CW	0.5	0.5	0.5	0.625	0.625
L	0.75	0.75	0.75	1.25	1.25
LB	3.625	3.625	3.75	4.25	4.25
LR	0.75	0.75	0.75	1.25	1.25
MR	0.625	0.625	0.625	0.938	0.938
XC	5.375	5.375	5.5	6.875	6.875



Models

Model Number	Cylinder Bore	Stroke	Port Size
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Accessories

Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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EA1255A1-PS 1-1/2 x 1	1-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 1-1/2 x 2	1-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 1-1/2 x 3	1-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 1-1/2 x 4	1-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 1-1/2 x 5	1-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 1-1/2 x 6	1-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 1-1/2 x 8	1-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 1-1/2 x 10	1-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 1-1/2 x 12	1-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 1	2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 2	2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 3	2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 4	2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 5	2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 6	2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 8	2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 10	2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2 x 12	2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 1	2-1/2	1	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 2	2-1/2	2	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 3	2-1/2	3	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 4	2-1/2	4	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 5	2-1/2	5	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 6	2-1/2	6	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 8	2-1/2	8	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 10	2-1/2	10	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255A1-PS 2-1/2 x 12	2-1/2	12	3/8"	3/8"	3/8"	C24250638	C24470638	C2VA00638
EA1255B1-PS 3-1/4 x 1	3-1/4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 3-1/4 x 2	3-1/4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 3-1/4 x 3	3-1/4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 3-1/4 x 4	3-1/4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 3-1/4 x 5	3-1/4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 3-1/4 x 6	3-1/4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 3-1/4 x 8	3-1/4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 3-1/4 x 10	3-1/4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 3-1/4 x 12	3-1/4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 1	4	1	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 2	4	2	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 3	4	3	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 4	4	4	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 5	4	5	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 6	4	6	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 8	4	8	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 10	4	10	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748
EA1255B1-PS 4 x 12	4	12	1/2"	1/2"	1/2"	C24250748	C24470748	C2VA00748

Service – Quality – Delivery

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ACT-15

ISO/VDMA CYLINDERS

DA/8000 Ø 32 to 125 mm

Conforms to ISO 6431,

VDMA 24562 and NFE 49-003-1

High performance, ruggedness and reliability

Extensive range of mountings

TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated or non-lubricated

Standard:

ISO 6431, VDMA 24562,

NFE 49-003-1 and corresponding BS

Operation:

DA/8000 double acting, adjustable cushioning

DA/8000/M double acting, magnetic piston, adjustable cushioning

Operating pressure:

15 to 232 psig [1 to 16 bar] 15 to 145 psig [1 to 10 bar] for Ø 250 and 320 mm

Operating temperature:

-4°F to +176°F (-20°C to +80°C) max.

Consult our Technical Service for use below +35°F (+2°C)

Materials

Barrel: anodized aluminum

End covers: pressure diecast aluminium (Ø 200 to 320 mm gravity cast aluminum)

Piston rod: stainless steel (Martensitic)

Piston rod seals: polyurethane
(Ø 125 to 320 mm nitrile rubber)

Piston seals: polyurethane

(Ø 125 to 320 mm nitrile rubber)

O-rings: nitrile rubber



Switches

M/50/LSU/*V	Reed
M/50/EAN/*V	Solid state
M/50/EAP/*V	Solid state

*Insert cable length 2m, 5m, 10m

Switch Bracket

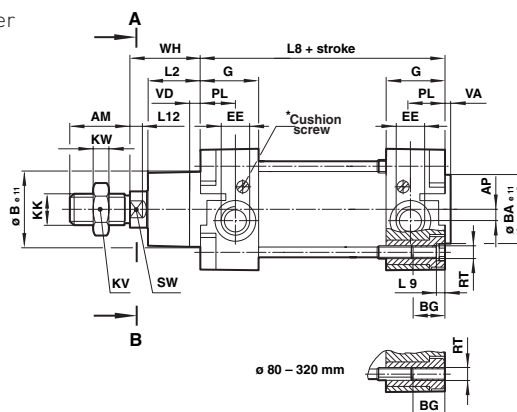
Bore	Bracket
Ø32-Ø125	QM/27/2/1

Accessories

Bore	Eye Bracket (Hinge)	Rod Clevis	Rod Alignment Coupler
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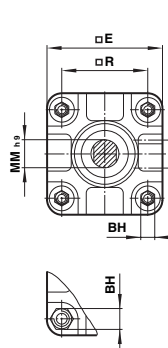


32	M/P19493	QM/8025/25	QM/8025/38
40	M/P19494	QM/8040/25	QM/8040/38
50	M/P19495	QM/8050/25	QM/8050/38
63	M/P19496	QM/8050/25	QM/8050/38
80	M/P19497	QM/8080/25	QM/8080/38
100	M/P19498	QM/8080/25	QM/8080/38
125	M/P19499	QM/8125/25	QM/8125/38



Ø 80 - 320 mm

A - B



Mounting Kits

Bore	Front/Rear Flange	Rear Clevis
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32	QA/8032/22	QA/8032/23
40	QA/8040/22	QA/8040/23
50	QA/8050/22	QA/8050/23
63	QA/8063/22	QA/8063/23
80	QA/8080/22	QA/8080/23
100	QA/8100/22	QA/8100/23
125	QA/8125/22	QA/8125/23

Dimensions

Ø	AM	AP	Ø B e11	Ø BA e11	BG	BH (A/F)	E	EE	G	KK	KV (A/F)	KW	L2
32	22	3.5	30	30	18	6	47	G 1/8	27.5	M10x1.25	17	5	20
40	24	4.5	35	35	18	6	53	G 1/4	32	M12x1.25	19	6	22
50	32	6	40	40	18	8	65	G 1/4	31	M16x1.5	24	8	27
63	32	10	45	45	17.5	8	75	G 3/8	33	M16x1.5	24	8	29
80	40	8.5	45	45	21.5	19	95	G 3/8	33	M20x1.5	30	10	33
100	40	9	55	55	21.5	19	115	G 1/2	37	M20x1.5	30	10	36
125	54	10	60	60	30	24	140	G 1/2	46	M27x2	41	13.5	45
Ø	L8	L9	L12	Ø MM h9	PL	R	RT	SW (A/F)	VA	VD	WH	Cylinder weight	
										lbs. at 0 mm	lbs/25 mm		
32	94	4	6	12	13	32.5	M 6	10	3	6	26	1.12 lb	0.13 lb
40	105	4	6.5	16	15	38	M 6	13	3.5	6	30	1.76 lb	0.18 lb
50	106	5	8	20	18.5	46.5	M 8	17	3.5	6	37	2.93 lb	0.26 lb
63	121	5	8	20	19	56.5	M 8	17	4	6	37	3.97 lb	0.29 lb
80	128	-	10	25	19	72	M 10	22	4	6	46	7.17 lb	0.44 lb
100	138	-	10	25	18	89	M 10	22	4	6	51	10.6 lb	0.51 lb
125	160	-	13	32	22.5	110	M 12	27	6	15.5	65	17.6 lb	0.73 lb



Models

Model No.	Dia. Ø	Stroke length	Port size	Piston rod Ø
				
DA/8032/M/25	32	25	G1/4	12
DA/8032/M/50	32	50	G1/4	12
DA/8032/M/75	32	75	G1/4	12
DA/8032/M/100	32	100	G1/4	12
DA/8032/M/125	32	125	G1/4	12
DA/8032/M/150	32	150	G1/4	12
DA/8032/M/200	32	200	G1/4	12
DA/8032/M/250	32	250	G1/4	12
DA/8032/M/300	32	300	G1/4	12
DA/8040/M/25	40	25	G1/4	16
DA/8040/M/50	40	50	G1/4	16
DA/8040/M/75	40	75	G1/4	16
DA/8040/M/100	40	100	G1/4	16
DA/8040/M/125	40	125	G1/4	16
DA/8040/M/150	40	150	G1/4	16
DA/8040/M/200	40	200	G1/4	16
DA/8040/M/250	40	250	G1/4	16
DA/8040/M/300	40	300	G1/4	16
DA/8050/M/25	50	25	G1/4	20
DA/8050/M/50	50	50	G1/4	20
DA/8050/M/75	50	75	G1/4	20
DA/8050/M/100	50	100	G1/4	20
DA/8050/M/125	50	125	G1/4	20
DA/8050/M/150	50	150	G1/4	20
DA/8050/M/200	50	200	G1/4	20
DA/8050/M/250	50	250	G1/4	20
DA/8050/M/300	50	300	G1/4	20
DA/8063/M/25	63	25	G3/8	20
DA/8063/M/50	63	50	G3/8	20
DA/8063/M/75	63	75	G3/8	20
DA/8063/M/100	63	100	G3/8	20
DA/8063/M/125	63	125	G3/8	20
DA/8063/M/150	63	160	G3/8	20
DA/8063/M/200	63	200	G3/8	20
DA/8063/M/250	63	250	G3/8	20
DA/8063/M/300	63	300	G3/8	20
DA/8080/M/25	80	25	G3/8	25
DA/8080/M/50	80	50	G3/8	25
DA/8080/M/75	80	75	G3/8	25
DA/8080/M/100	80	100	G3/8	25
DA/8080/M/125	80	125	G3/8	25
DA/8080/M/160	80	160	G3/8	25
DA/8080/M/200	80	200	G3/8	25
DA/8080/M/250	80	250	G3/8	25
DA/8080/M/300	80	300	G3/8	25
DA/8100/M/25	100	25	G1/2	25
DA/8100/M/50	100	50	G1/2	25
DA/8100/M/75	100	75	G1/2	25
DA/8100/M/100	100	100	G1/2	25
DA/8100/M/125	100	125	G1/2	25
DA/8100/M/150	100	150	G1/2	25
DA/8100/M/200	100	200	G1/2	25
DA/8100/M/250	100	250	G1/2	25
DA/8100/M/300	100	300	G1/2	25
DA/8125/M/25	125	25	G1/2	32
DA/8125/M/50	125	50	G1/2	32
DA/8125/M/75	125	75	G1/2	32
DA/8125/M/100	125	100	G1/2	32
DA/8125/M/125	125	125	G1/2	32
DA/8125/M/150	125	150	G1/2	32
DA/8125/M/200	125	200	G1/2	32
DA/8125/M/250	125	250	G1/2	32
DA/8125/M/300	125	300	G1/2	32

Accessories

Banjo flow control	Straight fitting	Elbow fitting	Service kit
			
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510828	C02250828	C02470828	QA/8050/00
C0K510838	C02250838	C02470838	QA/8063/00
C0K510838	C02250838	C02470838	QA/8063/00
C0K510838	C02250838	C02470838	QA/8063/00
C0K510838	C02250838	C02470838	QA/8063/00
C0K510838	C02250838	C02470838	QA/8063/00
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C0K510838	C02250838	C02470838	QA/8063/00
C0K511038	C02251038	C02471038	QA/8080/00
C0K511038	C02251038	C02471038	QA/8080/00
C0K511038	C02251038	C02471038	QA/8080/00
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C0K511038	C02251038	C02471038	QA/8080/00
C0K511038	C02251038	C02471038	QA/8080/00
C0K511248	C02251248	C02471248	QA/8100/00
C0K511248	C02251248	C02471248	QA/8100/00
C0K511248	C02251248	C02471248	QA/8100/00
C0K511248	C02251248	C02471248	QA/8100/00
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C0K511248	C02251248	C02471248	QA/8125/00
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C0K511248	C02251248	C02471248	QA/8125/00
C0K511248	C02251248	C02471248	QA/8125/00

Service – Quality – Delivery

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ACT-17

ISO/VDMA PROFILE CYLINDERS

PDA/182000M Ø 32 to 125 mm

Conforms to ISO 15552, ISO 6431, VDMA 24562 and NFE 49-003-1

Profile barrel with concealed tie rods

Polyurethane seals ensure efficient low friction operation and long life

Switches can be mounted flush with the profile barrel

TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated or non-lubricated

Standard:

ISO 6431, VDMA 24562, NFE 49-003-1 and corresponding BS

Operation:

PDA/182000/M double acting, magnetic piston, adjustable cushioning

Operating pressure:

15 to 232 psig [1 to 16 bar] 15 to 145 psig [1 to 10 bar] for Ø 250 and 320 mm

Operating temperature:

-4°F to +176°F [-20°C to +80°C] max.

Consult our Technical Service for use below +35°F [+2°C]

Strokes:

Standard, see table

Materials

Barrel: anodized aluminum

End covers: pressure diecast aluminium

(Ø 200 to 320 mm gravity cast aluminium)

Piston rod: stainless steel (Martensitic)

Piston rod seals: polyurethane (Ø 125 to 320 mm nitrile rubber)

Piston seals: polyurethane (Ø 125 to 320 mm nitrile rubber)

'O'-rings: nitrile rubber

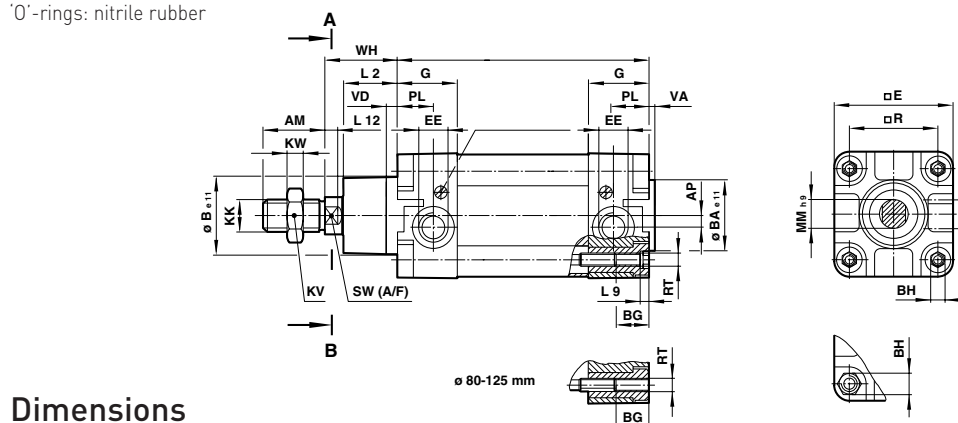


Switches

M/50/LSU/*V	Reed
M/50/EAN/*V	Solid state
M/50/EAP/*V	Solid state

Accessories

Bore	Eye Bracket (Hinge)	Rod Clevis	Rod Alignment Coupler
32	M/P19493	QM/8025/25	QM/8025/38
40	M/P19494	QM/8040/25	QM/8040/38
50	M/P19495	QM/8050/25	QM/8050/38
63	M/P19496	QM/8050/25	QM/8050/38
80	M/P19497	QM/8080/25	QM/8080/38
100	M/P19498	QM/8080/25	QM/8080/38
125	M/P19499	QM/8125/25	QM/8125/38



Dimensions

Ø	AM	AP	Ø B e11	Ø BA e11	BG	BH (A/F) ... E		EE	G	KK	KV (A/F)	KW	L2
32	22	3.5	30	30	18	6	47	G 1/8	27.5	M10 x 1.25	17	5	20
40	24	4.5	35	35	18	6	53	G 1/4	32	M12 x 1.25	19	6	22
50	32	6	40	40	18	8	65	G 1/4	31	M16 x 1.5	24	8	27
63	32	10	45	45	17.5	8	75	G 3/8	33	M16 x 1.5	24	8	29
80	40	8.5	45	45	21.5	19	95	G 3/8	33	M20 x 1.5	30	10	33
100	40	9	55	55	21.5	19	115	G 1/2	37	M20 x 1.5	30	10	36
125	54	10	60	60	30	24	140	G 1/2	46	M27 x 2	41	13.5	45
Ø	L8	L9	L12	Ø MM h9	PL	... R	RT	SW (A/F)	VA	VD	WH	at 0 mm	per 25 mm
32	94	4	6	12	13	32.5	M 6	10	3	6	26	1.12 lb	0.13 lb
40	105	4	6.5	16	15	38	M 6	13	3.5	6	30	1.80 lb	0.18 lb
50	106	5	8	20	18.5	46.5	M 8	17	3.5	6	37	2.93 lb	0.26 lb
63	121	5	8	20	19	56.5	M 8	17	4	6	37	3.97 lb	0.29 lb
80	128	–	10	25	19	72	M 10	22	4	6	46	7.17 lb	0.44 lb
100	138	–	10	25	18	89	M 10	22	4	6	51	10.6 lb	0.51 lb
125	160	–	13	32	22.5	110	M 12	27	6	15.5	65	17.6 lb	0.73 lb

Mounting Kits

Bore	Front/Rear Flange	Rear Clevis
32	QA/8032/22	QA/8032/23
40	QA/8040/22	QA/8040/23
50	QA/8050/22	QA/8050/23
63	QA/8063/22	QA/8063/23
80	QA/8080/22	QA/8080/23
100	QA/8100/22	QA/8100/23
125	QA/8125/22	QA/8125/23



ISO/VDMA PROFILE CYLINDERS

PDA/182000M Ø 32 to 125 mm

Models

Model No.	Dia. Ø	Stroke length	Port size	Piston rod Ø
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PDA/182032/M/25	32	25	G1/8	12
PDA/182032/M/50	32	50	G1/8	12
PDA/182032/M/75	32	75	G1/8	12
PDA/182032/M/100	32	100	G1/8	12
PDA/182032/M/125	32	125	G1/8	12
PDA/182032/M/150	32	150	G1/8	12
PDA/182032/M/200	32	200	G1/8	12
PDA/182032/M/250	32	250	G1/8	12
PDA/182032/M/300	32	300	G1/8	12
PDA/182040/M/25	40	25	G1/4	16
PDA/182040/M/50	40	50	G1/4	16
PDA/182040/M/75	40	75	G1/4	16
PDA/182040/M/100	40	100	G1/4	16
PDA/182040/M/125	40	125	G1/4	16
PDA/182040/M/150	40	150	G1/4	16
PDA/182040/M/200	40	200	G1/4	16
PDA/182040/M/250	40	250	G1/4	16
PDA/182040/M/300	40	300	G1/4	16
PDA/182050/M/25	50	25	G1/4	20
PDA/182050/M/50	50	50	G1/4	20
PDA/182050/M/75	50	75	G1/4	20
PDA/182050/M/100	50	100	G1/4	20
PDA/182050/M/125	50	125	G1/4	20
PDA/182050/M/150	50	150	G1/4	20
PDA/182050/M/200	50	200	G1/4	20
PDA/182050/M/250	50	250	G1/4	20
PDA/182050/M/300	50	300	G1/4	20
PDA/182063/M/25	63	25	G3/8	20
PDA/182063/M/50	63	50	G3/8	20
PDA/182063/M/75	63	75	G3/8	20
PDA/182063/M/100	63	100	G3/8	20
PDA/182063/M/125	63	125	G3/8	20
PDA/182063/M/150	63	160	G3/8	20
PDA/182063/M/200	63	200	G3/8	20
PDA/182063/M/250	63	250	G3/8	20
PDA/182063/M/300	63	300	G3/8	20
PDA/182080/M/25	80	25	G3/8	25
PDA/182080/M/50	80	50	G3/8	25
PDA/182080/M/75	80	75	G3/8	25
PDA/182080/M/100	80	100	G3/8	25
PDA/182080/M/125	80	125	G3/8	25
PDA/182080/M/150	80	160	G3/8	25
PDA/182080/M/200	80	200	G3/8	25
PDA/182080/M/250	80	250	G3/8	25
PDA/182080/M/300	80	300	G3/8	25
PDA/182100/M/25	100	25	G1/2	25
PDA/182100/M/50	100	50	G1/2	25
PDA/182100/M/75	100	75	G1/2	25
PDA/182100/M/100	100	100	G1/2	25
PDA/182100/M/125	100	125	G1/2	25
PDA/182100/M/150	100	150	G1/2	25
PDA/182100/M/200	100	200	G1/2	25
PDA/182100/M/250	100	250	G1/2	25
PDA/182100/M/300	100	300	G1/2	25
PDA/182125/M/25	125	25	G1/2	32
PDA/182125/M/50	125	50	G1/2	32
PDA/182125/M/75	125	75	G1/2	32
PDA/182125/M/100	125	100	G1/2	32
PDA/182125/M/125	125	125	G1/2	32
PDA/182125/M/150	125	150	G1/2	32
PDA/182125/M/200	125	200	G1/2	32
PDA/182125/M/250	125	250	G1/2	32
PDA/182125/M/300	125	300	G1/2	32

Accessories

Banjo flow control	Straight fitting	Elbow fitting	Service kit
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C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
C0K510618	C02250618	C02470618	QA/8032/00
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C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
C0K510628	C02250628	C02470628	QA/8040/00
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Service – Quality – Delivery

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ROUNDLINE PLUS STAINLESS STEEL CYLINDERS

5/16" to 3" bore

Single and double acting

Full range of bore sizes

All essential models

Optional Ecology seal

TECHNICAL DATA

Medium:

Filtered, lubricated or non-lubricated,
compressed air

Maximum Operating Pressure:

250 psig (17.2 bar)

Temperature Range*:

Standard Nitrile Seals:

-20° to 200°F (-29° to 93°C)

*With dew point of supply air less than air temperature below

35°F (2°C)

Lubrication:

All Roundline Plus cylinders are pre-lubricated during assembly with a Teflon® based grease for non-lube service and long life.

Materials

Cylinder Body:

304 Stainless Steel

Head and Cap:

Aluminum Alloy

Piston Rod:

Stainless steel in double rod cylinders, and 5/16", 7/16", and 9/16" bores. Chrome plated steel in all other bore sizes

Rod Bearing: Oil Impregnated

Sintered Bronze

Piston: Aluminum Alloy or

stainless steel

Rod & Piston Seals: Nitrile

Pivot Bracket, Rod Clevis, Foot Bracket,

Mounting Nut: Bright Zinc

Plated Carbon Steel



Accessories

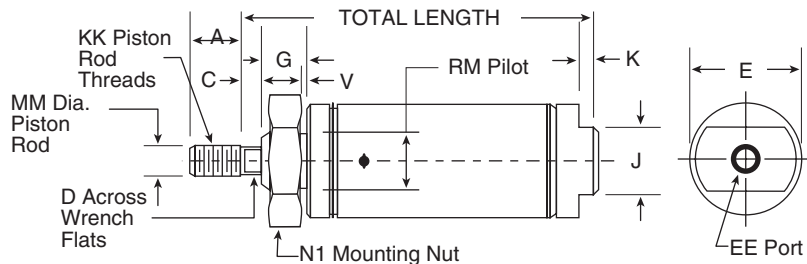
Bore	Pivot Bracket		Rod Clevis		Foot Bracket		Mounting Nut	
	Single Acting	Double Acting	Single Acting	Double Acting	Single Acting	Double Acting	Single Acting	Double Acting
								
5/16	PB-0	PB-0	RC-0	RC-0	FB-0S	FB-0D	MN-0	MN-1
7/16	PB-1	PB-1	RC-1	RC-1	FB-1	FB-2	MN-1	MN-2
9/16	PB-1	PB-1	RC-1	RC-1	FB-2	FB-2	MN-2	MN-2
3/4	PB-2	PB-2	RC-2	RC-2	FB-3	FB-4	MN-3	MN-4
7/8	PB-2	PB-2	RC-2	RC-2	FB-4	FB-4	MN-4	MN-4
1-1/16	PB-2	PB-2	RC-3	RC-3	FB-4	FB-4	MN-4	MN-4
1-1/4	PB-2	PB-2	RC-4	RC-4	FB-5	FB-5	MN-5	MN-5
1-1/2	PB-3	PB-3	RC-4	RC-4	FB-5	FB-5	MN-5	MN-5
1-3/4	PB-4	PB-4	RC-5	RC-5	--	FB-5A	--	MN-5A
2	PB-4	PB-4	RC-5	RC-5	--	FB-6	--	MN-6
2-1/2	PB-4	PB-4	RC-5	RC-5	--	FB-7	--	MN-7
3	PB-5	PB-5	RC-6	RC-6	--	FB-8	--	MN-8



ROUNDLINE PLUS CYLINDERS

5/16" to 3" bore

Single acting spring return
with nose mount



Dimensions

Bore	A	C	D	E	EE	G	J	K	KK	MM	N1	RM	V	Total Length
5/16"	0.38	N/A	N/A	0.36	10-32	0.25	N/A	N/A	5-40	0.125	1/4-28	.309/.312	0.03	1.12 + [0.75 per 1/2" of stroke]
7/16"	0.50	N/A	N/A	0.50	10-32	0.31	0.38	0.19	10-32	0.187	3/8-24	.369/.373	0.05	1.31 + [0.94 per 1/2" of stroke]
9/16"	0.50	N/A	N/A	0.62	10-32	0.38	0.50	0.19	10-32	0.187	7/16-20	.434/.437	0.06	1.53 + [1.62 per 1" of stroke]
3/4"	0.50	N/A	N/A	0.81	1/8 NPT	0.44	0.62	0.19	1/4-28	0.250	1/2-20	.494/.498	0.08	1.50 + [1.69 per 1" of stroke]
7/8"	0.50	N/A	N/A	0.94	1/8 NPT	0.50	0.62	0.19	1/4-28	0.250	5/8-18	.621/.624	0.09	1.84 + [1.56 per 1" of stroke]
1-1/16"	0.50	N/A	N/A	1.12	1/8 NPT	0.50	0.88	0.19	5/16-24	0.312	5/8-18	.621/.624	0.07	1.94 + [1.56 per 1" of stroke]
1-1/4"	0.75	0.25	0.38	1.34	1/8 NPT	0.63	0.88	0.25	7/16-20	0.437	3/4-16	.746/.749	0.09	2.66 + [1.81 per 1" of stroke]
1-1/2"	0.75	0.25	0.38	1.56	1/8 NPT	0.63	0.88	0.25	7/16-20	0.437	3/4-16	.746/.749	0.09	2.44 + [1.69 per 1" of stroke]

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
   								
RP031x0.500-SAN	5/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.000-SAN	5/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.500-SAN	5/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.000-SAN	5/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.500-SAN	5/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x3.000-SAN	5/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x0.500-SAN	7/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.000-SAN	7/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.500-SAN	7/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.000-SAN	7/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.500-SAN	7/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x3.000-SAN	7/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x0.500-SAN	9/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.000-SAN	9/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.500-SAN	9/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.000-SAN	9/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.500-SAN	9/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x3.000-SAN	9/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP075x0.500-SAN	3/4	1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.000-SAN	3/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.500-SAN	3/4	1-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.000-SAN	3/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.500-SAN	3/4	2-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x3.000-SAN	3/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x1.000-SAN	7/8	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x2.000-SAN	7/8	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x3.000-SAN	7/8	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x4.000-SAN	7/8	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x1.000-SAN	1-1/16	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x2.000-SAN	1-1/16	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x3.000-SAN	1-1/16	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x4.000-SAN	1-1/16	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x1.000-SAN	1-1/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x2.000-SAN	1-1/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x3.000-SAN	1-1/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x4.000-SAN	1-1/4	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x1.000-SAN	1-1/2	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x2.000-SAN	1-1/2	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x3.000-SAN	1-1/2	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x4.000-SAN	1-1/2	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418

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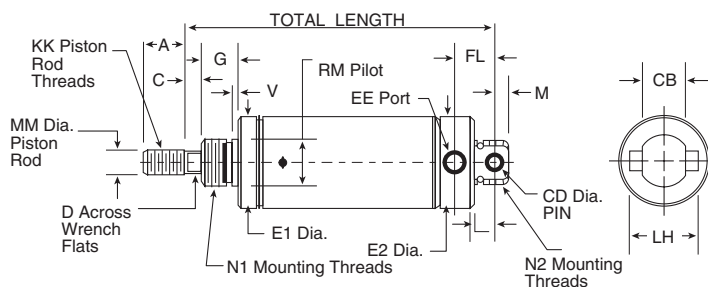
NORGREN
Express

ACT-21

ROUNDLINE PLUS CYLINDERS

5/16" to 3" bore

Single acting spring return
with pivot mount



Dimensions

Bore	A	CB	C	CD	D	E1	E2	EE	FL	G	KK	L	LH	M	MM	N1	N2	V	RM	Total Length
5/16"	0.38	0.25	N/A	0.125	N/A	0.36	0.36	10-32	0.34	0.25	5-40	0.19	N/A	0.16	0.125	1/4-28	3/8-24	0.03	.245/.249	1.52 + (.75 per 1/2" of stroke)
7/16"	0.50	0.31	N/A	0.156	N/A	0.50	0.74	10-32	0.44	0.31	10-32	0.25	0.50	0.25	0.187	3/8-24	7/16-20	0.05	.369/.373	1.75 + (.94 per 1/2" of stroke)
9/16"	0.50	0.31	N/A	0.156	N/A	0.62	0.62	10-32	0.38	0.38	10-32	0.25	N/A	0.19	0.187	7/16-20	7/16-20	0.06	.434/.437	1.81 + (1.62 per 1" of stroke)
3/4"	0.50	0.38	N/A	0.250	N/A	0.81	0.86	1/8 NPT	0.62	0.44	1/4-28	0.34	0.75	0.28	0.250	1/2-20	5/8-18	0.08	.494/.498	2.28 + (1.69 per 1" of stroke)
7/8"	0.50	0.38	N/A	0.250	N/A	0.94	0.94	1/8 NPT	0.62	0.50	1/4-28	0.34	0.75	0.28	0.250	5/8-18	5/8-18	0.09	.621/.624	2.47 + (1.56 per 1" of stroke)
1-1/16"	0.50	0.38	0.12	0.250	0.25	1.12	1.12	1/8 NPT	0.62	0.50	5/16-24	0.34	0.75	0.28	0.312	5/8-18	5/8-18	0.07	.621/.624	2.66 + (1.56 per 1" of stroke)
1-1/4"	0.75	0.50	0.25	0.250	0.38	1.34	1.34	1/8 NPT	0.78	0.63	7/16-20	0.41	N/A	0.40	0.437	3/4-16	3/4-16	0.09	.746/.749	3.38 + (1.81 per 1" of stroke)
1-1/2"	0.75	0.62	0.25	0.375	0.38	1.56	1.56	1/8 NPT	0.81	0.63	7/16-20	0.50	N/A	0.38	0.437	3/4-16	3/4-16	0.09	.746/.749	3.12 + (1.69 per 1" of stroke)

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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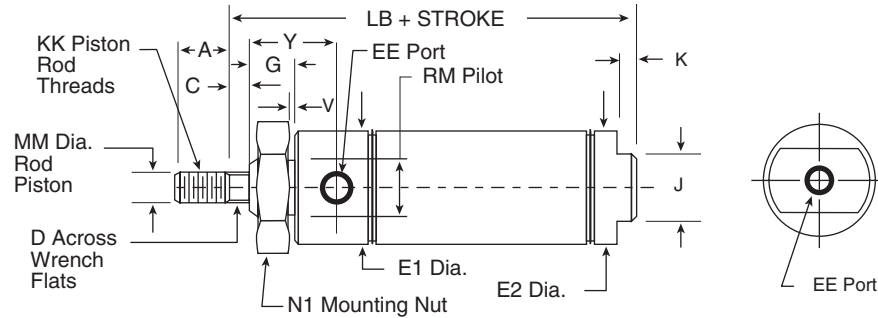


RP031x0.500-SAP	5/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.000-SAP	5/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.500-SAP	5/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.000-SAP	5/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.500-SAP	5/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x3.000-SAP	5/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x0.500-SAP	7/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.000-SAP	7/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.500-SAP	7/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.000-SAP	7/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.500-SAP	7/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x3.000-SAP	7/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x0.500-SAP	9/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.000-SAP	9/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.500-SAP	9/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.000-SAP	9/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.500-SAP	9/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x3.000-SAP	9/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP075x0.500-SAP	3/4	1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.000-SAP	3/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.500-SAP	3/4	1-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.000-SAP	3/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.500-SAP	3/4	2-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x3.000-SAP	3/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x1.000-SAP	7/8	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x2.000-SAP	7/8	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x3.000-SAP	7/8	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x4.000-SAP	7/8	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x1.000-SAP	1-1/16	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x2.000-SAP	1-1/16	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x3.000-SAP	1-1/16	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x4.000-SAP	1-1/16	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x1.000-SAP	1-1/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x2.000-SAP	1-1/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x3.000-SAP	1-1/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x4.000-SAP	1-1/4	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x1.000-SAP	1-1/2	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x2.000-SAP	1-1/2	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x3.000-SAP	1-1/2	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x4.000-SAP	1-1/2	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418

ROUNDLINE PLUS CYLINDERS

5/16" to 3" bore

Double acting with nose mount



Dimensions

Bore	A	C	D	EE	E1	E2	G	J	K	KK	LB	MM	N1	RM	Y	V
5/16"	0.38	N/A	N/A	10-32	0.61	0.36	0.31	0.36	N/A	5-40	1.64	0.125	3/8-24	.371/.373	0.47	0.03
7/16"	0.50	N/A	N/A	10-32	0.74	0.50	0.38	0.38	0.19	10-32	2.12	0.187	7/16-20	.434/.437	0.72	0.05
9/16"	0.50	N/A	N/A	10-32	0.62	0.62	0.38	0.50	0.19	10-32	2.28	0.187	7/16-20	.434/.437	0.75	0.06
3/4"	0.50	N/A	N/A	1/8 NPT	0.86	0.81	0.50	0.62	0.19	1/4-28	2.97	0.250	5/8-18	.621/.624	0.97	0.09
7/8"	0.50	N/A	N/A	1/8 NPT	0.94	0.94	0.50	0.62	0.19	1/4-28	2.94	0.250	5/8-18	.621/.624	0.97	0.09
1-1/16"	0.50	N/A	N/A	1/8 NPT	1.12	1.12	0.50	0.88	0.19	5/16-24	3.12	0.312	5/8-18	.621/.624	1.06	0.09
1-1/4"	0.75	0.25	0.38	1/8 NPT	1.34	1.34	0.63	0.88	0.25	7/16-20	4.00	0.437	3/4-16	.746/.749	1.37	0.09
1-1/2"	0.75	0.25	0.38	1/8 NPT	1.56	1.56	0.63	0.88	0.25	7/16-20	3.69	0.437	3/4-16	.746/.749	1.25	0.09
1-3/4"	0.88	0.31	0.44	1/4 NPT	1.84	1.84	0.75	1.25	0.25	1/2-20	4.69	0.500	1-14	1.029/1.032	1.63	0.09
2"	0.88	0.38	0.50	1/4 NPT	2.08	2.08	0.81	1.25	0.31	1/2-20	4.69	0.625	1-1/4-12	1.372/1.375	1.46	0.12
2-1/2"	0.88	0.38	0.50	1/4 NPT	2.59	2.59	0.81	1.75	0.31	1/2-20	4.69	0.625	1-3/8-12	1.497/1.500	1.46	0.12
3"	1.25	0.38	0.63	3/8 NPT	3.12	3.12	1.00	2.00	0.31	5/8-18	5.25	0.750	1-1/2-12	1.622/1.625	1.71	0.19

Models

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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RP031x0.500-DAN	5/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.000-DAN	5/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.500-DAN	5/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.000-DAN	5/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.500-DAN	5/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x3.000-DAN	5/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x4.000-DAN	5/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x5.000-DAN	5/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x6.000-DAN	5/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x0.500-DAN	7/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.000-DAN	7/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.500-DAN	7/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.000-DAN	7/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.500-DAN	7/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x3.000-DAN	7/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x4.000-DAN	7/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x5.000-DAN	7/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x6.000-DAN	7/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x0.500-DAN	9/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.000-DAN	9/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.500-DAN	9/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.000-DAN	9/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.500-DAN	9/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x3.000-DAN	9/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x4.000-DAN	9/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x5.000-DAN	9/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x6.000-DAN	9/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410

Service – Quality – Delivery

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ACT-23

ROUNDLINE PLUS CYLINDERS

5/16" to 3" bore

Double acting with nose mount (cont.)

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
				  				
RP075x0.500-DAN	3/4	1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.000-DAN	3/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.500-DAN	3/4	1-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.000-DAN	3/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.500-DAN	3/4	2-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x3.000-DAN	3/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x4.000-DAN	3/4	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x5.000-DAN	3/4	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x6.000-DAN	3/4	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x1.000-DAN	7/8	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x2.000-DAN	7/8	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x3.000-DAN	7/8	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x4.000-DAN	7/8	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x5.000-DAN	7/8	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x6.000-DAN	7/8	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x1.000-DAN	1-1/16	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x2.000-DAN	1-1/16	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x3.000-DAN	1-1/16	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x4.000-DAN	1-1/16	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x5.000-DAN	1-1/16	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x6.000-DAN	1-1/16	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x1.000-DAN	1-1/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x2.000-DAN	1-1/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x3.000-DAN	1-1/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x4.000-DAN	1-1/4	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x5.000-DAN	1-1/4	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x6.000-DAN	1-1/4	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x1.000-DAN	1-1/2	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x2.000-DAN	1-1/2	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x3.000-DAN	1-1/2	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x4.000-DAN	1-1/2	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x5.000-DAN	1-1/2	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x6.000-DAN	1-1/2	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP175x1.000-DAN	1-3/4	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x2.000-DAN	1-3/4	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x3.000-DAN	1-3/4	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x4.000-DAN	1-3/4	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x5.000-DAN	1-3/4	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x6.000-DAN	1-3/4	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200x1.000-DAN	2	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200x2.000-DAN	2	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200x3.000-DAN	2	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200x4.000-DAN	2	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200x5.000-DAN	2	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200x6.000-DAN	2	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x1.000-DAN	2-1/2	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x2.000-DAN	2-1/2	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x3.000-DAN	2-1/2	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x4.000-DAN	2-1/2	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x5.000-DAN	2-1/2	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x6.000-DAN	2-1/2	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP300x1.000-DAN	3	1	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x2.000-DAN	3	2	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x3.000-DAN	3	3	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x4.000-DAN	3	4	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x5.000-DAN	3	5	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x6.000-DAN	3	6	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638

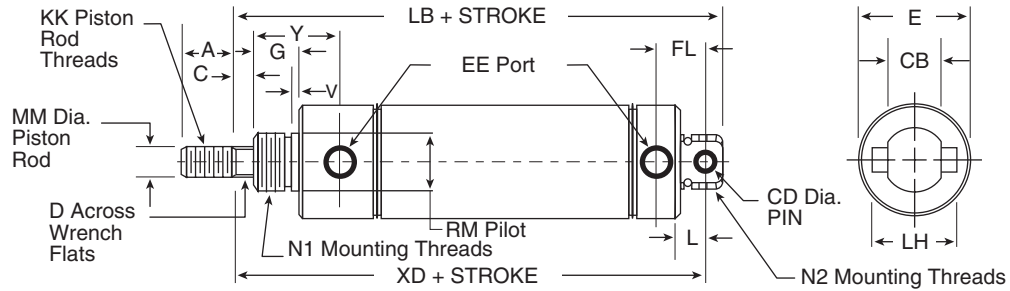
ROUNDLINE PLUS CYLINDERS

5/16" to 3" bore

Double acting with pivot mount

ACTUATORS

1



Dimensions

Bore	A	C	CB	CD	D	E	EE	FL	G	KK	L	LB	LH	MM	N1	N2	RM	V	XD	Y
5/16"	0.38	N/A	0.25	0.125	N/A	0.61	10-32	0.34	0.31	5-40	0.19	2.19	0.39	0.125	3/8-24	3/8-24	.371/.373	0.03	2.03	0.47
7/16"	0.50	N/A	0.31	0.156	N/A	0.74	10-32	0.44	0.38	10-32	0.25	2.81	0.50	0.187	7/16-20	7/16-20	.434/.437	0.05	2.56	0.72
9/16"	0.50	N/A	0.31	0.156	N/A	0.62	10-32	0.38	0.38	10-32	0.25	2.75	0.50	0.187	7/16-20	7/16-20	.434/.437	0.06	2.56	0.75
3/4"	0.50	N/A	0.38	0.250	N/A	0.86	1/8 NPT	0.62	0.50	1/4-28	0.34	4.03	0.75	0.250	5/8-18	5/8-18	.621/.624	0.09	3.75	0.97
7/8"	0.50	N/A	0.38	0.250	N/A	0.94	1/8 NPT	0.62	0.50	1/4-28	0.34	3.84	0.75	0.250	5/8-18	5/8-18	.621/.624	0.09	3.56	0.97
1-1/16"	0.50	0.12	0.38	0.250	0.25	1.12	1/8 NPT	0.62	0.50	5/16-24	0.34	4.12	0.75	0.312	5/8-18	5/8-18	.621/.624	0.09	3.84	1.07
1-1/4"	0.75	0.25	0.50	0.250	0.38	1.34	1/8 NPT	0.78	0.63	7/16-20	0.41	5.12	0.88	0.437	3/4-16	3/4-16	.746/.749	0.09	4.72	1.37
1-1/2"	0.75	0.25	0.62	0.375	0.38	1.56	1/8 NPT	0.81	0.63	7/16-20	0.50	4.75	1.00	0.437	3/4-16	3/4-16	.746/.749	0.09	4.38	1.25
1-3/4"	0.88	0.31	0.62	0.376	0.44	1.84	1/4 NPT	1.12	0.75	1/2-20	0.50	6.25	1.00	0.500	1-14	1-14	1.029/1.032	0.09	5.75	1.63
2"	0.88	0.38	0.75	0.375	0.50	2.08	1/4 NPT	1.03	0.81	1/2-20	0.56	6.06	1.63	0.625	1-1/4-12	1-1/4-12	1.372/1.375	0.12	5.62	1.54
2-1/2"	0.88	0.38	0.75	0.375	0.50	2.59	1/4 NPT	1.03	0.81	1/2-20	0.56	6.06	1.63	0.625	1-3/8-12	1-3/8-12	1.497/1.500	0.12	5.62	1.47
3"	1.25	0.38	0.88	0.500	0.63	3.12	3/8 NPT	1.34	1.00	5/8-18	0.81	7.12	1.90	0.750	1-1/2-12	1-1/2-12	1.622/1.625	0.19	6.50	1.71

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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RP031x0.500-DAP	5/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.000-DAP	5/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.500-DAP	5/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.000-DAP	5/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.500-DAP	5/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x3.000-DAP	5/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x4.000-DAP	5/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x5.000-DAP	5/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x6.000-DAP	5/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x0.500-DAP	7/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.000-DAP	7/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.500-DAP	7/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.000-DAP	7/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.500-DAP	7/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x3.000-DAP	7/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x4.000-DAP	7/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x5.000-DAP	7/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x6.000-DAP	7/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x0.500-DAP	9/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.000-DAP	9/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.500-DAP	9/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.000-DAP	9/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.500-DAP	9/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x3.000-DAP	9/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x4.000-DAP	9/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x5.000-DAP	9/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x6.000-DAP	9/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410

Service – Quality – Delivery

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ACT-25

ROUNDLINE PLUS CYLINDERS

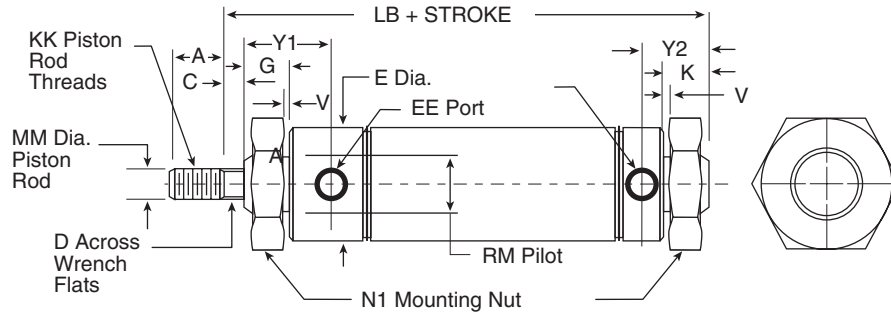
5/16" to 3" bore

Double acting with pivot mount (cont.)

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
				  				
RP075x0.500-DAP	3/4	1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.000-DAP	3/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.500-DAP	3/4	1-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.000-DAP	3/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.500-DAP	3/4	2-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x3.000-DAP	3/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x4.000-DAP	3/4	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x5.000-DAP	3/4	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x6.000-DAP	3/4	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x1.000-DAP	7/8	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x2.000-DAP	7/8	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x3.000-DAP	7/8	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x4.000-DAP	7/8	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x5.000-DAP	7/8	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x6.000-DAP	7/8	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x1.000-DAP	1-1/16	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x2.000-DAP	1-1/16	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x3.000-DAP	1-1/16	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x4.000-DAP	1-1/16	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x5.000-DAP	1-1/16	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x6.000-DAP	1-1/16	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x1.000-DAP	1-1/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x2.000-DAP	1-1/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x3.000-DAP	1-1/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x4.000-DAP	1-1/4	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x5.000-DAP	1-1/4	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x6.000-DAP	1-1/4	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x1.000-DAP	1-1/2	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x2.000-DAP	1-1/2	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x3.000-DAP	1-1/2	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x4.000-DAP	1-1/2	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x5.000-DAP	1-1/2	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x6.000-DAP	1-1/2	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP175x1.000-DAP	1-3/4	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x2.000-DAP	1-3/4	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x3.000-DAP	1-3/4	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x4.000-DAP	1-3/4	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x5.000-DAP	1-3/4	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x6.000-DAP	1-3/4	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X1.000-DAP	2	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X2.000-DAP	2	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X3.000-DAP	2	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X4.000-DAP	2	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X5.000-DAP	2	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X6.000-DAP	2	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x1.000-DAP	2-1/2	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x2.000-DAP	2-1/2	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x3.000-DAP	2-1/2	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x4.000-DAP	2-1/2	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x5.000-DAP	2-1/2	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x6.000-DAP	2-1/2	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP300x1.000-DAP	3	1	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x2.000-DAP	3	2	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x3.000-DAP	3	3	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x4.000-DAP	3	4	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x5.000-DAP	3	5	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x6.000-DAP	3	6	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638



Dimensions

Bore	A	C	D	E	EE	G	K	KK	LB	MM	N1	RM	V	Y1	Y2
5/16"	0.38	N/A	N/A	0.61	10-32	0.31	0.35	5-40	2.19	0.125	3/8-24	.371/.373	0.03	0.47	0.50
7/16"	0.50	N/A	N/A	0.74	10-32	0.38	0.50	10-32	2.81	0.187	7/16-20	.434/.437	0.05	0.73	0.69
9/16"	0.50	N/A	N/A	0.62	10-32	0.38	0.44	10-32	2.75	0.187	7/16-20	.434/.437	0.06	0.75	0.57
3/4"	0.50	N/A	N/A	0.86	1/8 NPT	0.50	0.62	1/4-28	4.03	0.250	5/8-18	.621/.624	0.09	0.97	0.90
7/8"	0.50	N/A	N/A	0.94	1/8 NPT	0.50	0.62	1/4-28	3.84	0.250	5/8-18	.621/.624	0.09	0.97	0.90
1-1/16"	0.50	0.12	0.25	1.12	1/8 NPT	0.50	0.62	5/16-24	4.12	0.312	5/8-18	.621/.624	0.09	1.07	0.90
1-1/4"	0.75	0.25	0.38	1.34	1/8 NPT	0.63	0.81	7/16-20	5.12	0.437	3/4-16	.746/.749	0.09	1.37	1.18
1-1/2"	0.75	0.25	0.38	1.56	1/8 NPT	0.63	0.62	7/16-20	4.75	0.437	3/4-16	.746/.749	0.09	1.25	0.94
1-3/4"	0.88	0.31	0.44	1.84	1/4 NPT	0.75	1.00	1/2-20	6.25	0.500	1-14	1.029/1.032	0.09	1.63	1.62
2"	0.88	0.38	0.50	2.08	1/4 NPT	0.81	1.00	1/2-20	6.06	0.625	1-1/4-12	1.372/1.375	0.12	1.46	1.47
2-1/2"	0.88	0.38	0.50	2.59	1/4 NPT	0.81	1.00	1/2-20	6.06	0.625	1-3/8-12	1.497/1.500	0.12	1.46	1.47
3"	1.25	0.38	0.63	3.12	3/8 NPT	1.00	1.43	5/8-18	7.12	0.750	1-1/2-12	1.622/1.625	0.19	1.71	1.96

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
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RP031x0.500-DAD	5/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.000-DAD	5/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x1.500-DAD	5/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.000-DAD	5/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x2.500-DAD	5/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x3.000-DAD	5/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x4.000-DAD	5/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x5.000-DAD	5/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP031x6.000-DAD	5/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x0.500-DAD	7/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.000-DAD	7/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x1.500-DAD	7/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.000-DAD	7/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x2.500-DAD	7/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x3.000-DAD	7/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x4.000-DAD	7/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x5.000-DAD	7/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP043x6.000-DAD	7/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x0.500-DAD	9/16	1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.000-DAD	9/16	1	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x1.500-DAD	9/16	1-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.000-DAD	9/16	2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x2.500-DAD	9/16	2-1/2	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x3.000-DAD	9/16	3	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x4.000-DAD	9/16	4	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x5.000-DAD	9/16	5	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410
RP056x6.000-DAD	9/16	6	10-32	10-32	1/4"	C24250410	C24470410	C2VA00410

ROUNDLINE PLUS CYLINDERS

5/16" to 3" bore

Double acting with Double end mount (cont.)

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
								
RP075x0.500-DAD	3/4	1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.000-DAD	3/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x1.500-DAD	3/4	1-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.000-DAD	3/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x2.500-DAD	3/4	2-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x3.000-DAD	3/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x4.000-DAD	3/4	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x5.000-DAD	3/4	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP075x6.000-DAD	3/4	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x1.000-DAD	7/8	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x2.000-DAD	7/8	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x3.000-DAD	7/8	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x4.000-DAD	7/8	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x5.000-DAD	7/8	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP087x6.000-DAD	7/8	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x1.000-DAD	1-1/16	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x2.000-DAD	1-1/16	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x3.000-DAD	1-1/16	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x4.000-DAD	1-1/16	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x5.000-DAD	1-1/16	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP106x6.000-DAD	1-1/16	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x1.000-DAD	1-1/4	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x2.000-DAD	1-1/4	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x3.000-DAD	1-1/4	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x4.000-DAD	1-1/4	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x5.000-DAD	1-1/4	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP125x6.000-DAD	1-1/4	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x1.000-DAD	1-1/2	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x2.000-DAD	1-1/2	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x3.000-DAD	1-1/2	3	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x4.000-DAD	1-1/2	4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x5.000-DAD	1-1/2	5	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP150x6.000-DAD	1-1/2	6	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
RP175x1.000-DAD	1-3/4	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x2.000-DAD	1-3/4	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x3.000-DAD	1-3/4	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x4.000-DAD	1-3/4	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x5.000-DAD	1-3/4	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP175x6.000-DAD	1-3/4	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X1.000-DAD	2	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X2.000-DAD	2	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X3.000-DAD	2	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X4.000-DAD	2	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X5.000-DAD	2	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP200X6.000-DAD	2	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x1.000-DAD	2-1/2	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x2.000-DAD	2-1/2	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x3.000-DAD	2-1/2	3	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x4.000-DAD	2-1/2	4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x5.000-DAD	2-1/2	5	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP250x6.000-DAD	2-1/2	6	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
RP300x1.000-DAD	3	1	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x2.000-DAD	3	2	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x3.000-DAD	3	3	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x4.000-DAD	3	4	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x5.000-DAD	3	5	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
RP300x6.000-DAD	3	6	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638

F-SERIES PLUS

Double Acting

Ø 9/16" to 4"

ACTUATORS

1



TECHNICAL DATA

Medium:

Filtered, lubricated or non-lubricated, compressed air

Operating Pressure

200 psig (13.6 Bar) Max.

Temperature Range:

Standard Nitrile seals:

-40°F to 200°F [-40°C to 93°C]

*With dew point of supply air less than air temperature below 35°F [2°C].

Lubrication:

All F-Series Plus cylinders are prelubricated at the time of assembly with a Teflon® based grease, for non-lube service and long life.

Side Loading:

Cylinders are specifically designed to push and pull. Side loading and misalignment of the piston rod should be avoided to ensure maximum operating performance and life.

Materials:

Cylinder Body: 304 Stainless Steel

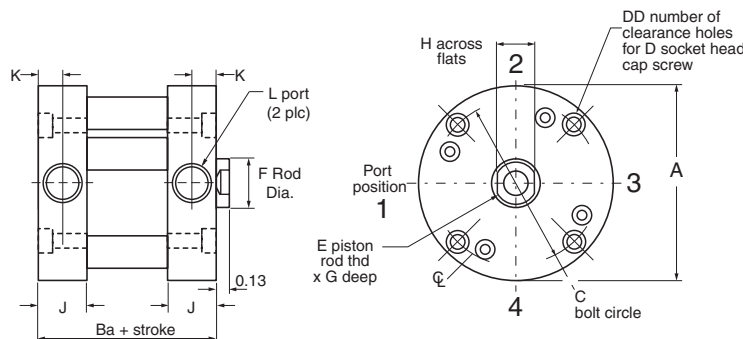
Head and Cap: Clear Anodized Aluminum Alloy

Piston Rod: 303 Stainless Steel

Rod Bearing: Oil Impregnated Bronze

Piston: Aluminum Alloy

Rod & Piston seals: Buna-N

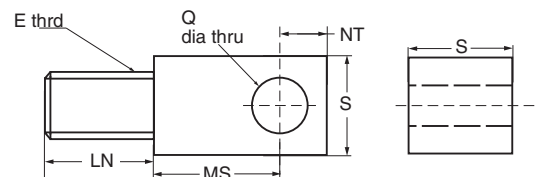


Cylinder Dimensions

Bore	Code	A	Ba*	C	DD	D	E Thread	G depth	F	H	J	K	L
9/16"	[056]	1.12	0.56	0.88	2	#4	8-32 UNC	.46	.25	.22	.34	.14	10-32 UNF
3/4"	[075]	1.50	0.56	1.22	4	#6	10-32 UNC	.46	.31	.25	.34	.14	10-32 UNF
1-1/16"	[106]	2.00	0.88	1.69	4	#6	5/16-24 UNF	.70	.50	.44	.50	.25	1/8 NPT
1-1/2"	[150]	2.62	0.88	2.19	4	#10	3/8-24 UNF	.70	.63	.50	.50	.25	1/8 NPT
2"	[200]	3.12	0.95	2.69	4	#10	1/2-20 UNF	.70	.75	.63	.53	.25	1/8 NPT
2-1/2"	[250]	3.75	1.19	3.25	4	1/4	1/2-20 UNF	.70	.75	.63	.66	.33	1/4 NPT
3"	[300]	4.25	1.25	3.78	4	1/4	5/8-18 UNF	.73	.88	.75	.69	.33	1/4 NPT
4"	[400]	5.50	1.56	4.94	4	5/16	3/4-16 UNF	.80	1.00	.88	.84	.42	3/8 NPT

Rod Eye Dimensions

Bore	Part No.	E	LN	MS	NT	Q	S
9/16"	FRE-1	#8-32 UNC	0.38	0.47	0.25	0.19	0.38
3/4"	FRE-2	#10-32 UNF	0.38	0.47	0.25	0.19	0.38
1-1/16"	FRE-3	5/16-24 UNF	0.63	0.47	0.25	0.19	0.38
1-1/2"	FRE-4	3/8-24 UNF	0.63	0.75	0.44	0.38	0.75
2"	FRE-5	1/2-20 UNF	0.75	0.75	0.44	0.38	0.75
2-1/2"							
3"	FRE-6	5/8-18 UNF	0.88	1.00	0.63	0.63	1.00
4"	FRE-7	3/4-16 UNF	0.88	1.00	0.63	0.63	1.00



Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



ACT-29

F-SERIES PLUS CYLINDERS

9/16" to 4" bore

Models

Accessories

Model Number	Cylinder Bore	Stroke	Port Size	Thread Size	Tube	Straight Fitting	90° Swivel Elbow Fitting	Banjo Flow Control
								
FP056x0.250-BAM	9/16	1/4	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP056x0.500-BAM	9/16	1/2	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP056x0.750-BAM	9/16	3/4	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP056x1.000-BAM	9/16	1	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP056x1.250-BAM	9/16	1-1/4	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP056x1.500-BAM	9/16	1-1/2	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP056x1.750-BAM	9/16	1-3/4	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP056x2.000-BAM	9/16	2	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP075x0.250-BAM	3/4	1/4	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP075x0.500-BAM	3/4	1/2	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP075x0.750-BAM	3/4	3/4	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP075x1.000-BAM	3/4	1	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP075x1.250-BAM	3/4	1-1/4	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP075x1.500-BAM	3/4	1-1/2	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP075x1.750-BAM	3/4	1-3/4	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP075x2.000-BAM	3/4	2	10-32 UNF	10-32	1/4"	C24250410	C24470410	C2VA00410
FP106x0.250-BAM	1-1/16	1/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP106x0.500-BAM	1-1/16	1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP106x0.750-BAM	1-1/16	3/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP106x1.000-BAM	1-1/16	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP106x1.250-BAM	1-1/16	1-1/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP106x1.500-BAM	1-1/16	1-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP106x1.750-BAM	1-1/16	1-3/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP106x2.000-BAM	1-1/16	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP150x0.250-BAM	1-1/2	1/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP150x0.500-BAM	1-1/2	1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP150x0.750-BAM	1-1/2	3/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP150x1.000-BAM	1-1/2	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP150x1.250-BAM	1-1/2	1-1/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP150x1.500-BAM	1-1/2	1-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP150x1.750-BAM	1-1/2	1-3/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP150x2.000-BAM	1-1/2	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP200x0.250-BAM	2	1/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP200x0.500-BAM	2	1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP200x0.750-BAM	2	3/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP200x1.000-BAM	2	1	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP200x1.250-BAM	2	1-1/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP200x1.500-BAM	2	1-1/2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP200x1.750-BAM	2	1-3/4	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP200x2.000-BAM	2	2	1/8 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP250x0.250-BAM	2-1/2	1/4	1/4 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP250x0.500-BAM	2-1/2	1/2	1/4 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP250x0.750-BAM	2-1/2	3/4	1/4 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP250x1.000-BAM	2-1/2	1	1/4 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP250x1.250-BAM	2-1/2	1-1/4	1/4 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP250x1.500-BAM	2-1/2	1-1/2	1/4 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP250x1.750-BAM	2-1/2	1-3/4	1/4 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP250x2.000-BAM	2-1/2	2	1/4 NPT	1/8" NPT	1/4"	C24250418	C24470418	C2VA00418
FP300x0.250-BAM	3	1/4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
FP300x0.500-BAM	3	1/2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
FP300x0.750-BAM	3	3/4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
FP300x1.000-BAM	3	1	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
FP300x1.250-BAM	3	1-1/4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
FP300x1.500-BAM	3	1-1/2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
FP300x1.750-BAM	3	1-3/4	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
FP300x2.000-BAM	3	2	1/4 NPT	1/4" NPT	3/8"	C24250628	C24470628	C2VA00628
FP400x0.250-BAM	4	1/4	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
FP400x0.500-BAM	4	1/2	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
FP400x0.750-BAM	4	3/4	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
FP400x1.000-BAM	4	1	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
FP400x1.250-BAM	4	1-1/4	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
FP400x1.500-BAM	4	1-1/2	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
FP400x1.750-BAM	4	1-3/4	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638
FP400x2.000-BAM	4	2	3/8 NPT	3/8" NPT	3/8"	C24250638	C24470638	C2VA00638

LINTRA PLUS

C/146000

Ø 25 to 63 mm



New lightweight design extrusion
with universal mounting grooves
Proven and patented sealing system
Dust protection as standard
Interchangeability with series C/46000

TECHNICAL DATA

Medium:

Compressed air, filtered,
lubricated or non-lubricated

Operation:

Double acting with adjustable cushioning
and magnetic piston

Operating pressure:

14.5 to 116 psi (1 to 8 bar)

Operating temperature:

-22°F to 176°F (-30°C to +80°C) max.

(consult our Technical Service for use below 36°F
[+2°C])

Cylinder diameter:

25, 32, 40, 50, 63 mm

Materials:

End covers: anodized aluminum
Yoke: anodized aluminum
Carriage, closer & cover: aluminum diecast
Guiding bridge and profile barrel: anodized aluminum
Seal strip, wiper and piston seal: polyurethane
Cover strip: polyamide
Other seals: nitrile rubber

For more information about the Lintra Plus range
please visit www.norgren.com/lintra

M/50 switches

Switch P/N	Cable Material	Type	
M/50/LSU/*V	PVC	Reed	LED
M/50/EAN/*V	PVC	Solid State	Sinking (NPN) LED
M/50/EAP/*V	PVC	Solid State	Sourcing (PNP) LED

Mounts

Bore	Foot Mounts	Center Support	Groove Key
			
25	QM/146025/21	QM/146025/32	M/P74065
32	QM/146032/21	QM/146032/32	M/P74065
40	QM/146040/21	QM/146040/32	M/P74066
50	QM/146050/21	QM/146050/32	M/P41858
63	QM/146063/21	QM/146063/32	M/P41859

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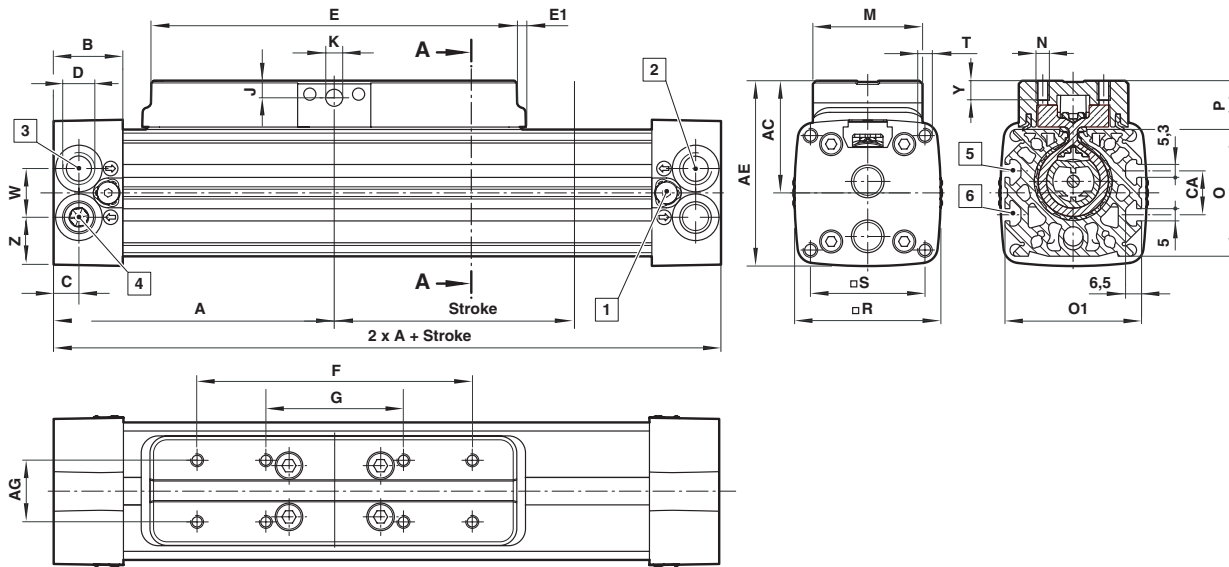


ACT-31

LINTRA PLUS CYLINDERS

Ø 25 to 63 mm

Internally guided, magnetic adjustable cushions



Dimensions

Type	Ø	A	AC	AE	AG	B	C	CA	D	E	E1	F	G	J	Ø KD7
C/146025/...	25	3.94 [100]	1.42 [36]	2.20 [56]	0.78 [20]	0.91 [23]	0.33 [8.5]	–	1/8 NPT G1/8	5.12 [130]	–	3.54 [90]	1.77 [45]	0.19 [4.7]	0.20 [5]
C/146032/...	32	4.72 [120]	1.81 [46]	2.99 [76]	0.98 [25]	1.12 [28.5]	0.41 [10.5]	0.71 [18]	1/4 NPT G1/4	6.30 [160]	0.14 [3.5]	4.72 [120]	2.36 [60]	0.28 [7]	0.28 [7]
C/146040/...	40	5.91 [150]	2.07 [52.5]	3.54 [90]	0.98 [25]	1.12 [28.5]	0.45 [11.5]	0.71 [18]	1/4 NPT G1/4	8.46 [215]	–	6.30 [160]	3.15 [80]	0.28 [7]	0.28 [7]
C/146050/...	50	7.09 [180]	2.58 [65.5]	4.33 [110]	0.98 [25]	1.50 [38]	0.59 [15]	0.94 [24]	3/8 NPT G3/8	9.84 [250]	–	7.48 [190]	3.74 [95]	0.37 [9.5]	0.35 [9]
C/146063/...	63	8.46 [215]	3.25 [82.5]	4.92 [125]	0.98 [25]	1.50 [38]	0.67 [17]	–	1/2 NPT G1/2	12.60 [320]	–	9.45 [240]	4.72 [120]	0.37 [9.5]	0.35 [9]
Type	Ø	M	N	O	O 1	P	R	S	T	W	Y	Z	Weight at 0 mm	Weight per 100 mm	
C/146025/...	25	1.26 [32]	M5 M5	1.57 [40]	1.81 [46]	0.63 [16]	1.89 [48]	1.46 [37]	M5-13* M5-13*	0.63 [16]	0.28 [7]	0.63 [16]	1.5 lbs. 0.7 kg	0.55 lbs. 0.25 kg	
C/146032/...	32	1.77 [45]	M5 M5	2.05 [52]	2.20 [56]	0.79 [20]	2.36 [60]	1.85 [47]	M6-17* M6-17*	0.79 [20]	0.31 [8]	0.79 [20]	3 lbs. 1.40 kg	0.66 lbs. 0.30 kg	
C/146040/...	40	1.77 [45]	M6 M6	2.56 [65]	2.68 [68]	0.79 [20]	2.93 [74.5]	2.28 [58]	M8-20* M8-20*	0.98 [25]	0.31 [8]	0.98 [25]	5.5 lbs. 2.50 kg	0.93 lbs. 0.42 kg	
C/146050/...	50	1.97 [50]	M8 M8	3.15 [80]	3.31 [84]	1.00 [25.5]	3.50 [89]	2.76 [70]	M8-20* M8-20*	1.18 [30]	0.43 [11]	1.16 [29.5]	9.7 lbs. 4.40 kg	1.3 lbs. 0.62 kg	
C/146063/...	63	1.97 [50]	M8 M8	3.74 [95]	3.82 [97]	0.98 [25]	4.13 [105]	3.31 [84]	M10-24* M10-24*	1.38 [35]	0.43 [11]	1.38 [35]	15.2 lbs. 6.90 kg	2 lbs. 0.9 kg	

Internally guided, magnetic adjustable cushions

Models

Model No.	Dia. Ø	Stroke length	Port size
			
C/146025/MC/6	25	6	1/8 NPT
C/146025/MC/12	25	12	1/8 NPT
C/146025/MC/18	25	18	1/8 NPT
C/146025/MC/24	25	24	1/8 NPT
C/146025/MC/30	25	30	1/8 NPT
C/146025/MC/36	25	36	1/8 NPT
C/146025/MC/42	25	42	1/8 NPT
C/146025/MC/48	25	48	1/8 NPT
C/146032/MC/6	32	6	1/4 NPT
C/146032/MC/12	32	12	1/4 NPT
C/146032/MC/18	32	18	1/4 NPT
C/146032/MC/24	32	24	1/4 NPT
C/146032/MC/30	32	30	1/4 NPT
C/146032/MC/36	32	36	1/4 NPT
C/146032/MC/42	32	42	1/4 NPT
C/146032/MC/48	32	48	1/4 NPT
C/146040/MC/6	40	6	1/4 NPT
C/146040/MC/12	40	12	1/4 NPT
C/146040/MC/18	40	18	1/4 NPT
C/146040/MC/24	40	24	1/4 NPT
C/146040/MC/30	40	30	1/4 NPT
C/146040/MC/36	40	36	1/4 NPT
C/146040/MC/42	40	42	1/4 NPT
C/146040/MC/48	40	48	1/4 NPT
C/146050/MC/6	50	6	3/8 NPT
C/146050/MC/12	50	12	3/8 NPT
C/146050/MC/18	50	18	3/8 NPT
C/146050/MC/24	50	24	3/8 NPT
C/146050/MC/30	50	30	3/8 NPT
C/146050/MC/36	50	36	3/8 NPT
C/146050/MC/42	50	42	3/8 NPT
C/146050/MC/48	50	48	3/8 NPT
C/146063/MC/6	63	6	1/2 NPT
C/146063/MC/12	63	12	1/2 NPT
C/146063/MC/18	63	18	1/2 NPT
C/146063/MC/24	63	24	1/2 NPT
C/146063/MC/30	63	30	1/2 NPT
C/146063/MC/36	63	36	1/2 NPT
C/146063/MC/42	63	42	1/2 NPT
C/146063/MC/48	63	48	1/2 NPT

Accessories

Banjo flow control	Straight fitting	Elbow fitting	Service kit
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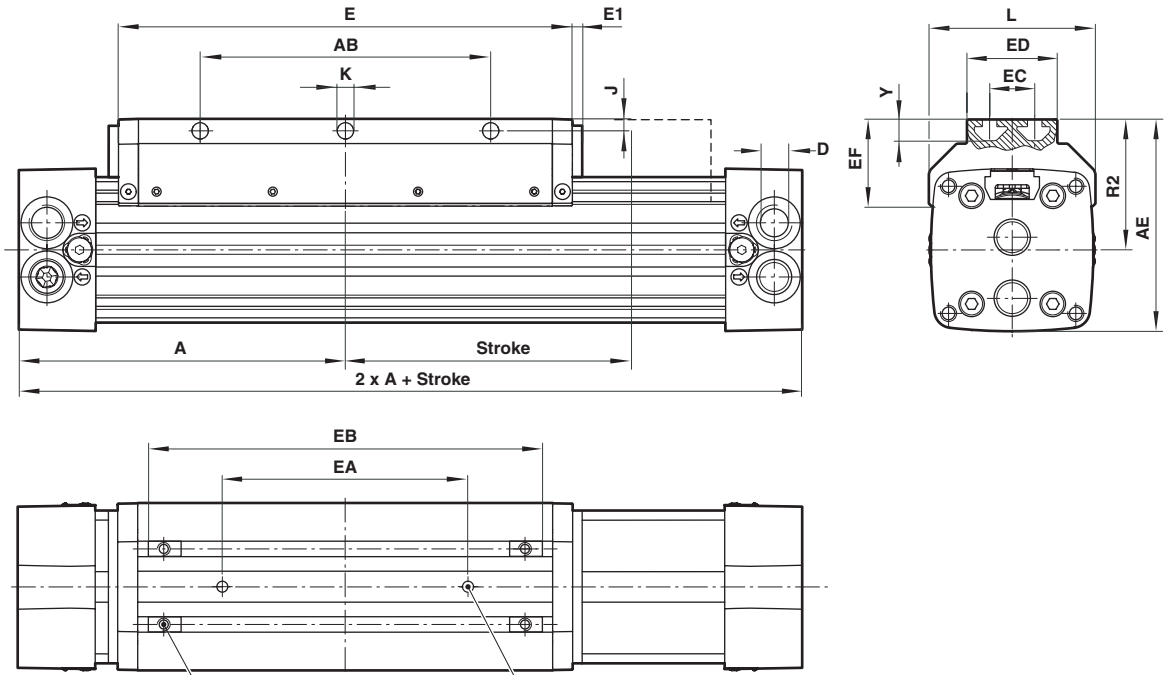


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C0K510618	C02250618	C02470618	QC/146025/18/88
C0K510618	C02250618	C02470618	QC/146025/24/88
C0K510618	C02250618	C02470618	QC/146025/30/88
C0K510618	C02250618	C02470618	QC/146025/36/88
C0K510618	C02250618	C02470618	QC/146025/42/88
C0K510618	C02250618	C02470618	QC/146025/48/88
C0K510628	C02250628	C02470628	QC/146032/6/88
C0K510628	C02250628	C02470628	QC/146032/12/88
C0K510628	C02250628	C02470628	QC/146032/18/88
C0K510628	C02250628	C02470628	QC/146032/24/88
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C0K510628	C02250628	C02470628	QC/146032/36/88
C0K510628	C02250628	C02470628	QC/146032/42/88
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C0K510838	C02250838	C02470838	QC/146050/18/88
C0K510838	C02250838	C02470838	QC/146050/24/88
C0K510838	C02250838	C02470838	QC/146050/30/88
C0K510838	C02250838	C02470838	QC/146050/36/88
C0K510838	C02250838	C02470838	QC/146050/42/88
C0K510838	C02250838	C02470838	QC/146050/48/88
C0K510848	C02250848	C02470848	QC/146063/6/88
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C0K510848	C02250848	C02470848	QC/146063/18/88
C0K510848	C02250848	C02470848	QC/146063/24/88
C0K510848	C02250848	C02470848	QC/146063/30/88
C0K510848	C02250848	C02470848	QC/146063/36/88
C0K510848	C02250848	C02470848	QC/146063/42/88
C0K510848	C02250848	C02470848	QC/146063/48/88

LINTRA PLUS CYLINDERS

Ø 25 to 63 mm

Externally guided, magnetic adjustable cushions



Dimensions

Type	Ø	A	AB	AE	AF	D	E	E1	EA	EB ±0.05	ED	EC	EF	J	Ø K	L	R 2	Y	Weight at 0 mm	Weight per 100 mm
C/146125/.. 25		3.94 (100)	2.76 (70)	2.66 (67.5)	M5	1/8 NPT G1/8	5.12 (130)	-	1.97 (50)	4.02 (102)	1.26 (32)	0.79 (20)	1.34 (34)	0.20 (5)	0.22 (5.5)	2.05 (52)	-	0.37 (9.5)	1.7 lbs. 0.75kg	0.44 lbs. 0.20 kg
C/146132/.. 32		4.72 (120)	3.54 (90)	3.23 (82)	M5	1/4 NPT G1/4	6.30 (160)	0.16 (4)	2.76 (70)	5.43 (138)	1.77 (45)	0.98 (25)	1.44 (36.5)	0.20 (5)	0.22 (5.5)	2.52 (64)	2.05 (52)	0.26 (6.5)	3.3 lbs. 1.50 kg	0.66 lbs. 0.30 kg
C/146140/.. 40		5.91 (150)	4.72 (120)	3.84 (97.5)	M6	1/4 NPT G1/4	8.46 (215)	-	4.13 (105)	7.60 (193)	1.77 (45)	0.98 (25)	1.69 (43)	0.20 (5)	0.26 (6.6)	3.11 (79)	2.36 (60)	0.37 (9.5)	5.7 lbs. 2.60 kg	0.93 lbs. 0.42 kg
C/146150/.. 50		7.09 (180)	6.30 (160)	4.59 (116.5)	M8	3/8 NPT G3/8	9.84 (250)	-	5.31 (135)	8.98 (228)	1.97 (50)	0.98 (25)	1.87 (47.5)	0.26 (6.5)	0.35 (9)	3.62 (92)	2.83 (72)	0.45 (11.5)	10 lbs. 4.50 kg	1.4 lbs. 0.62 kg
C/146163/.. 63		8.46 (215)	7.48 (190)	5.39 (137)	M8	1/2 NPT G1/2	12.60 (320)	-	5.91 (150)	11.50 (292)	1.97 (50)	0.98 (25)	2.32 (59)	0.30 (7.5)	0.35 (9)	4.33 (110)	3.33 (84.5)	0.65 (16.5)	16 lbs. 7.20kg	2 lbs. 0.90 kg

Externally guided, magnetic adjustable cushions

Models

Model No.	Dia. Ø	Stroke length	Port size
			
C/146125/MC/6	25	6	1/8 NPT
C/146125/MC/12	25	12	1/8 NPT
C/146125/MC/18	25	18	1/8 NPT
C/146125/MC/24	25	24	1/8 NPT
C/146125/MC/30	25	30	1/8 NPT
C/146125/MC/36	25	36	1/8 NPT
C/146125/MC/42	25	42	1/8 NPT
C/146125/MC/48	25	48	1/8 NPT
C/146132/MC/6	32	6	1/4 NPT
C/146132/MC/12	32	12	1/4 NPT
C/146132/MC/18	32	18	1/4 NPT
C/146132/MC/24	32	24	1/4 NPT
C/146132/MC/30	32	30	1/4 NPT
C/146132/MC/36	32	36	1/4 NPT
C/146132/MC/42	32	42	1/4 NPT
C/146132/MC/48	32	48	1/4 NPT
C/146140/MC/6	40	6	1/4 NPT
C/146140/MC/12	40	12	1/4 NPT
C/146140/MC/18	40	18	1/4 NPT
C/146140/MC/24	40	24	1/4 NPT
C/146140/MC/30	40	30	1/4 NPT
C/146140/MC/36	40	36	1/4 NPT
C/146140/MC/42	40	42	1/4 NPT
C/146140/MC/48	40	48	1/4 NPT
C/146150/MC/6	50	6	3/8 NPT
C/146150/MC/12	50	12	3/8 NPT
C/146150/MC/18	50	18	3/8 NPT
C/146150/MC/24	50	24	3/8 NPT
C/146150/MC/30	50	30	3/8 NPT
C/146150/MC/36	50	36	3/8 NPT
C/146150/MC/42	50	42	3/8 NPT
C/146150/MC/48	50	48	3/8 NPT
C/146163/MC/6	63	6	1/2 NPT
C/146163/MC/12	63	12	1/2 NPT
C/146163/MC/18	63	18	1/2 NPT
C/146163/MC/24	63	24	1/2 NPT
C/146163/MC/30	63	30	1/2 NPT
C/146163/MC/36	63	36	1/2 NPT
C/146163/MC/42	63	42	1/2 NPT
C/146163/MC/48	63	48	1/2 NPT

Accessories

Banjo flow control	Straight fitting	Elbow fitting	Service kit
			
C0K510618	C02250618	C02470618	QC/146125/6/88
C0K510618	C02250618	C02470618	QC/146125/12/88
C0K510618	C02250618	C02470618	QC/146125/18/88
C0K510618	C02250618	C02470618	QC/146125/24/88
C0K510618	C02250618	C02470618	QC/146125/30/88
C0K510618	C02250618	C02470618	QC/146125/36/88
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C0K510618	C02250618	C02470618	QC/146125/48/88
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C0K510628	C02250628	C02470628	QC/146132/12/88
C0K510628	C02250628	C02470628	QC/146132/18/88
C0K510628	C02250628	C02470628	QC/146132/24/88
C0K510628	C02250628	C02470628	QC/146132/30/88
C0K510628	C02250628	C02470628	QC/146132/36/88
C0K510628	C02250628	C02470628	QC/146132/42/88
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C0K510628	C02250628	C02470628	QC/146140/42/88
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C0K510848	C02250848	C02470848	QC/146163/42/88
C0K510848	C02250848	C02470848	QC/146163/48/88

MAGNETICALLY OPERATED SWITCHES

Switches for A series NFPA cylinders

Magnetically operated, non-contact sensing system.

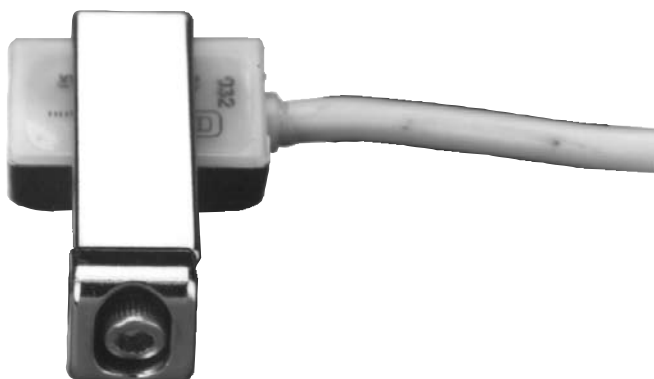
Consists of a magnet in the piston, and a sensing switch clamped on the cylinder tie rod.

One or more switches may be mounted to provide an indication of piston position or to control or initiate any sequence function.

Adjustable mounting brackets allow for switches to be securely positioned anywhere along the range of piston travel.

LED indicator light facilitates installation and troubleshooting.

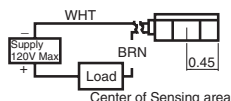
Mounting brackets standard with switches.



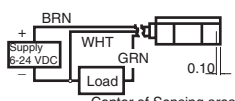
Specification

Switch Model	CS8-2-04 Reed	CS8-2-31 Solid State	CS8-2-32 Solid State
Bore Sizes	3/4" thru 2-1/2"	3/4" thru 2-1/2"	3/4" thru 2-1/2"
Switch Type	Reed Switch *MOV & Light	Solid State & Light, Sourcing PNP	Solid State & Light, Sinking NPN
Function	SPST Normally Open	Normally Open	Normally Open
Switching Voltage	5-120 VDC/VAC 50/60 Hz	6-24 VDC	6-24 VDC
Switching Current	.5 Amp Max .005 Amp Min	.5 Amp Max	.5 Amp Max
Switching Power	10 VA	12 Watts Max	12 Watts Max
Max Voltage Drop	3.5 Volts	.5 Volts	.5 Volts
Magnetic Sensitivity	85 Gauss	85 Gauss	85 Gauss
Enclosure Classification	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved
Temperature Range	-22°F to +176°F	-22°F to +176°F	-22°F to +176°F

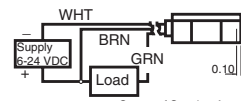
Wiring Diagrams



CS8-2-04 Reed



CS8-2-31 Solid State

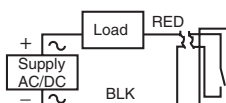


CS8-2-32 Solid State

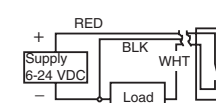
Specification

Switch Model	CS7-04 Reed	CS7-31 Solid State	CS7-32 Solid State
Bore Sizes	2" thru 6"	2" thru 6"	2" thru 6"
Switch Type	Reed Switch *MOV & Light	Solid State & Light, Sourcing PNP	Solid State & Light, Sinking NPN
Function	Normally Open	Normally Open	Normally Open
Switching Voltage	5-240 VDC/VAC 50/60 Hz	6-24 VDC	6-24 VDC
Switching Current	1 Amp Max	1 Amp Max	1 Amp Max
Switching Power	30 Watts Max	24 Watts Max	24 Watts Max
Max Voltage Drop	3 Volts	.5 Volts	.5 Volts
Magnetic Sensitivity	85 Gauss	85 Gauss	85 Gauss
Enclosure Classification	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved	NEMA 6 & CSA Approved
Temperature Range	-22°F to +176°F	-22°F to +176°F	-22°F to +176°F

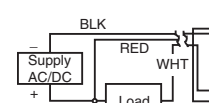
Wiring Diagrams



CS7-04 Reed



CS7-31 Solid State



CS7-32 Solid State



NEN Switch Bracket

Bore	Bracket
1-1/2"	QM/NEN1/SB
2" - 2-1/2"	QM/NEN2/SB
3-1/4" - 4"	QM/NEN3/SB



Switches for NEN Series Cylinders

Switch P/N	Bore	Type	Function	Switching Voltage	Switching Current	Switching Power	Max Voltage Drop	Enclosure Classification	Temperature Rating	Lead Wire Length	
											
M/NEN/A	1-1/2" - 4"	Reed	Light, (Green LED)	Normally Open	5-240 VDC/VAC	100mA max.	10 Watts max.	2.5 Volts max.	IP 67 (NEMA 6)	14°F to 158°F	2 meters
M/NEN/N	1-1/2" - 4"	Solid State	Light, Sinking NPN (Red LED)	Normally Open	5-30 VDC	200mA max.	6 Watts max.	.5 volts max.	IP 67 (NEMA 6)	14°F to 158°F	2 meters

M/50 switches

Switches for DA/8000, PDA/182000, and C/146000 Series cylinders

Switch P/N	Cable Material	Type	Wire	Function Connection	Voltage	Switching Current	Switching Power	Contact Resistance	Operating Temperature	Protection Rating	Cable Length	Bracket*	
													
M/50/LSU/*V	PVC	Reed	LED	2 Wire	Normally Open	10-240 VAC 10-170 VDC	180 mA	10 W	150m Ohm	-20°C to +80°C	IP66 (DIN 40050)	*Insert 2 = 2 Meters *Insert 5 = 5 Meters *Insert 10 = 10 Meters	QM/27/2/1
M/50/EAN/*V	PVC	Solid State	Sinking (NPN) LED	3 Wire	Normally Open	10-30 VDC	150 mA	4.5 W	N/A	-20°C to +80°C	IP67 (DIN 40050)	*Insert 2 = 2 Meters *Insert 5 = 5 Meters *Insert 10 = 10 Meters	QM/27/2/1
M/50/EAP/*V	PVC	Solid State	Sourcing (PNP) LED	3 Wire	Normally Open	10-30 VDC	150 mA	4.5 W	N/A	-20°C to +80°C	IP67 (DIN 40050)	*Insert 2 = 2 Meters *Insert 5 = 5 Meters *Insert 10 = 10 Meters	QM/27/2/1

*Bracket needed for DA/8000 Series only

NORGREN – a name built on success

Norgren may have a reputation that extends across the world, but there's more to the company than just a name. In fact, it's built on many names – such as Lintra, Excelon, Pneufit, Fleetfit and more. They're all brands which are known for their exceptional quality, performance and reliability.

They're also all available from Norgren Express, the perfect single-source for a full range of products from these famous brands – plus, of course, thousands of products bearing the Norgren brand itself.

If you're looking for fast and easy access to high-quality, high-reliability pneumatic and fluid control solutions, you'll find it in Norgren Express.



NORGREN – the home of established brands



ACTUATORS

Norgren, Roundline,
Lintra, F-Series,
ISO/VDMA



VALVES

Norgren, VS Series,
Prospector, Mini ISO



FITTINGS

Norgren, Pneufit,
Fleetfit, Quietaire



AIRLINE

Norgren, Excelon®,
Excelon Pro



When you need it **fast**.

Valves

Norgren Express stocks a wide range of valves for your rapid replacement needs. Included in this section are solenoid valves, proportional valves, process valves and mechanical valves. We also offer the V50 Series which can be configured to your requirements and sent in a very rapid turnaround time. For expert advice and guidance on valve products call the Express team or go to NorgrenExpress.com.



Fast Find Guide

VALVE MANIFOLDS

VS18/VS26

2 x 2/2, 2 x 3/2, 5/2 and
5/3 valves, ISO 15407-2
18 mm and 26 mm



Page VAL-3

SUBBASE VALVES

MINI ISO V40/V41

5/2
ISO 15407-1/VDMA 24 563
18 mm



Page VAL-4

MINI ISO STAR V44/V45

5/2 and 5/3 Valves
ISO 15407-1/VDMA 24 563
26 mm



Page VAL-8

ISO★STAR

5/2 and 5/3
ISO #1 to ISO #3



Page VAL-10

IN-LINE AND MANIFOLD VALVES

V60 - 62 SERIES

3/2, 5/2, and 5/3
1/8" to 1/2"



Page VAL-12

V50 - 53

3/2, 5/2 and 5/3
1/8" to 1/2"



VAL-Page 16

MANUAL/MECHANICAL VALVES

PROSPECTOR POPPET VALVES

1/2" Basic



Page VAL-22

NUGGET 200 SPOOL VALVES

3/2, 5/2 and 5/3
1/4", 3/8", and 1/2"



Page VAL-24

Super X

3/2, 5/2 and 5/3
1/8" and 1/4"



Page VAL-30

SAFETY VALVES

INLINE LOCKOUT VALVE

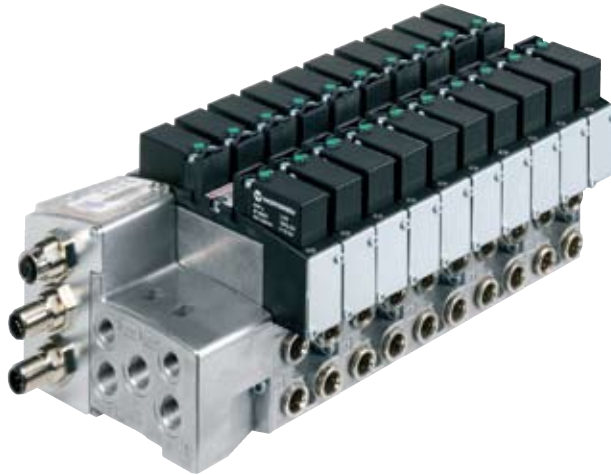
1/2", and 1"



Page VAL-37

PLUG-IN MINI ISO VALVE ISLANDS VS18 & VS26 Series

2 x 2/2, 2 x 3/2, 5/2 and 5/3 valves, ISO 15407-2 – Sizes 18 mm and 26 mm



Multipole or integrated fieldbus for installation flexibility

Field expandable with single add-on stations

Dual spool technology:

- Glandless spool and sleeve for long life
- Softseal spool for high flow

Wide range of accessories

ATEX

Universal PNP/NPN 24 V d.c. Multipole

TECHNICAL DATA

Medium:

Compressed air, filtered to 40 µm,
lubricated or non-lubricated

Operation:

Spool valve indirectly actuated

Operating pressure:

Glandless – maximum 232 psig (16 bar)

Softseal – maximum 145 psig (10 bar)

Flow:

VS18 0.66 Cv (650 l/min)

VS26 1.37 Cv (1350 l/min)

Voltage:

24 V d.c., 115 V a.c.

Ambient temperature:

5°F to 122°F (–15°C to +50°C)

Consult our Technical Service for use below 35°F (2°C)

Degree of protection:

Multipole and fieldbus IP65

Spare Valves

VS18 – 24 V d.c., INTERNAL PILOT, PUSH ONLY MO			
Model No.	Function	Actuation	Spool type
VS18SE11DF313A	2x 2/2 NC	Sol/Spring	Softseal
VS18SF11DF313A	2x 2/2 NO	Sol/Spring	Softseal
VS18SG11DF313A	2x 2/2 NO/NC	Sol/Spring	Softseal
VS18SA11DF313A	2x 3/2 NC	Sol/Spring	Softseal
VS18SB11DF313A	2x 3/2 NO	Sol/Spring	Softseal
VS18SC11DF313A	2x 3/2 NO/NC	Sol/Spring	Softseal
VS18S511DF313A	5/2	Sol/Sol	Softseal
VS18S517DF313A	5/2	Sol/Spring	Softseal
VS18S611DF313A	5/3 APB	Sol/Sol	Softseal
VS18S711DF313A	5/3 COE	Sol/Sol	Softseal

Spare Valves

VS26 – 24 V d.c., INTERNAL PILOT, PUSH ONLY MO			
Model No.	Function	Actuation	Spool type
VS26SE11DF313A	2x 2/2 NC	Sol/Spring	Softseal
VS26SF11DF313A	2x 2/2 NO	Sol/Spring	Softseal
VS26SG11DF313A	2x 2/2 NO/NC	Sol/Spring	Softseal
VS26SA11DF313A	2x 3/2 NC	Sol/Spring	Softseal
VS26SB11DF313A	2x 3/2 NO	Sol/Spring	Softseal
VS26SC11DF313A	2x 3/2 NO/NC	Sol/Spring	Softseal
VS26S511DF313A	5/2	Sol/Sol	Softseal
VS26S517DF313A	5/2	Sol/Spring	Softseal
VS26S611DF313A	5/3 APB	Sol/Sol	Softseal
VS26S711DF313A	5/3 COE	Sol/Sol	Softseal



Service – Quality – Delivery

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VAL-3

MINI ISO VALVES v40/V41 Series

5/2 Valves – Solenoid and pilot actuated – ISO 15407-1/VDMA 24 563 – Size 18 mm

High performance, compact design

Flexible sub-base system

Multipressure system capability

Wide range of accessories

Dual spool technology

– V40 Glandless spool and sleeve (long life)

– V41 Softseal spool (high flow)

Easy to convert from internal to external pilot supply

Valve exchange under pressure



TECHNICAL DATA

Medium:

Compressed air, 40 µm filtered,
lubricated or non-lubricated

Operation:

V40: Glandless spool valve,
solenoid pilot or air pilot actuated

V41: Softseal spool valve,
solenoid pilot or air pilot actuated

Operating pressure:

145 psig (10 bar) V41 models and V40 solenoid pilot
actuated valves with internal pilot supply

232 psig (16 bar) V40 solenoid pilot actuated valves
with external pilot supply and V40 air pilot actuated
valves

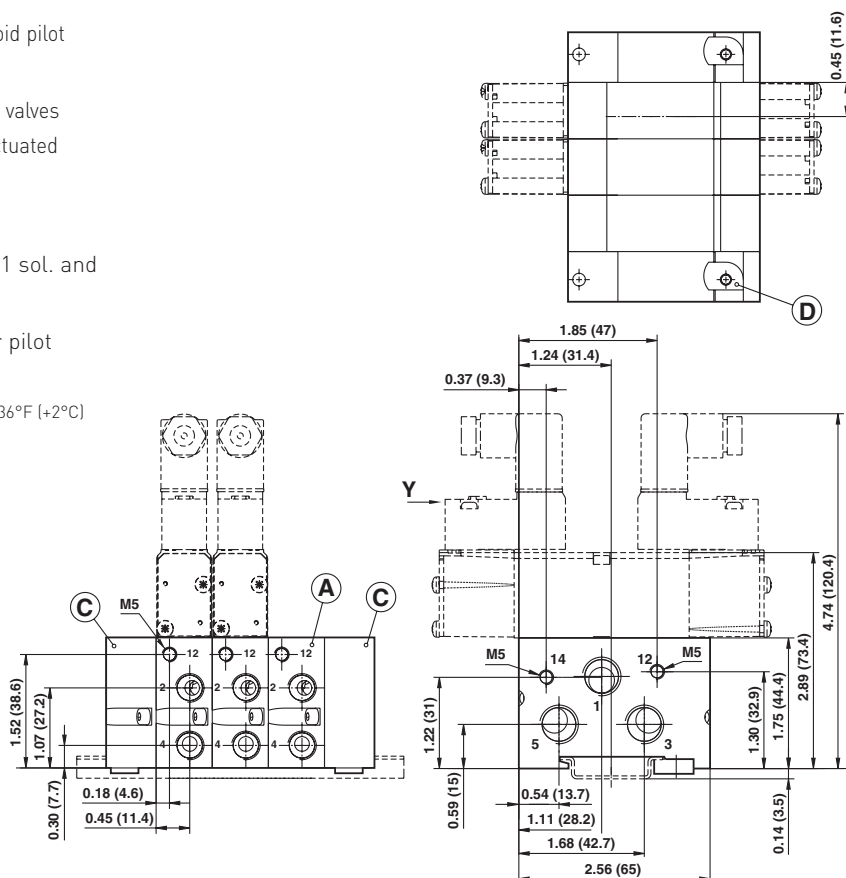
Ambient temperature:

5°F* to +122°F (-15°C* to +50°C) V40/V41 sol. and
V41 air pilot models

5°F* to +176°F (-15°C* to +80°C) V40 air pilot
models

*Consult our Application Engineering for use below 36°F (+2°C)

Dimensions in inches (mm)



MINI ISO VALVES V40/V41 Series

5/2 Valves – Solenoid and pilot actuated – ISO 15407-1/VDMA 24 563 – Size 18 mm

Models – Softseal Spool (V41 Series)

5/2 VALVES – SOLENOID ACTUATED VALVES INTERNAL PILOT SUPPLY					
24 DC Push only M/O Model No.	115V 50/60 Hz Model No.	Actuation	Size	Flow Cv (l/min)	Operating pressure psi



V415517D-C313B	V415517D-C318B	Sol/Spring	18 mm	0.66 (650)	29-145
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V415511D-C313B	V415511D-C318B	Sol/Sol	18 mm	0.66 (650)	29-145
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Spare Pilot Valves

Voltage	Power Inrush / Hold	Override	Pilot Valve Part.-no.
24 V d.c.	1.2 W	Push only	VZC7L2C1-C313A
15 V 50/60 Hz	2.1 / 1.5 VA	Push only	VZC7L2C1-C318A

Models – Softseal Spool (V41 Series)

5/2 VALVES – PILOT ACTUATED VALVES		Actuation	Size	Flow Cv (l/min)	Operating pressure psig
Model No.					



V415537A-X0090		Air/Spring	18 mm	0.66 (650)	26" Hg - 145
V415533A-X0020		Air/Air	18 mm	0.66 (650)	26" Hg - 145

5/3 VALVES – SOLENOID ACTUATED VALVES INTERNAL PILOT SUPPLY					
24 DC Push only M/O Model No.	115V 50/60 Hz Model No.	Actuation	Size	Flow Cv (l/min)	Operating pressure psi



V415611D-C313B	V415611D-C318B	Sol/Sol APB	18 mm	0.69 (680)	29-145
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APB – All Ports Blocked

MINI ISO VALVES V40/V41 Series

5/2 Valves – Solenoid and pilot actuated – ISO 15407-1/VDMA 24 563 – Size 18 mm

Models – Glandless Spool (V40 Series)

5/2 VALVES – SOLENOID ACTUATED VALVES INTERNAL PILOT SUPPLY
24 DC Push only M/O 115V 50/60 Hz Actuation
Model No. Model No.

Model No.	115V 50/60 Hz Model No.	Actuation	Size	Flow Cv (l/min)	Operating pressure (bar)
					
V405516D-C313B	V405516D-C318B	Sol/Spring	18 mm	0.58 [570]	29-145

					
V405511D-C313B	V405511D-C318B	Sol/Sol	18 mm	0.58 [570]	29-145

5/2 VALVES – PILOT ACTUATED VALVES Model No.	Actuation	Size	Flow Cv (l/min)	Operating pressure psig
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V405537A-X0090*	Air/Spring	18 mm	0.58 [570]	26" Hg - 232
V405533A-X0020*	Air/Air	18 mm	0.58 [570]	26" Hg - 232

* Requires modular sub-base V70425-P5F or V70426-P5F

MINI ISO VALVES V40/V41 Series

5/2 Valves – Solenoid and pilot actuated – ISO 15407-1/VDMA 24 563 – Size 18 mm

BASES AND ACCESSORIES

Flow regulator plate	DIN-rail mounting kit	Blanking plate for unused station	Blanking disk to modular sub-base (qty 1)
			
V70428-K50 (Ports 3+5 reg.)	V70531-KA0	V70400-K50	V70422-K50 (Ports 1,3,or 5)

Models

SINGLE STATION		Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
Model No.	Description					
						
V70401-P5B	Single station side ported with pilot ports – 1/8"	1/8" NPT	1/4"	C24250418	C24470418	MS001A

MODULAR SUB-BASES AND END PLATES		Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
Model No.	Description					
						
V70425-P5F	Modular sub-base side ported (PTF) without pilot ports – 1/8"	1/8" NPT	1/4"	C24250418	C24470418	MS001A
V70425-15F	Modular sub-base side ported (PIF) without pilot ports – 1/4"	1/4" NPT	3/8"	C24250628	C24470628	MS002A
V70426-P5F	Modular sub-base side ported (PTF) with pilot ports – 1/8"	1/8" NPT	1/4"	C24250418	C24470418	MS001A

						
V70432-P5F	Double modular sub-base side ported without pilot ports – 1/8" PTF	1/8" NPT	1/4"	C24250418	C24470418	MS001A

						
V70424-R5C	End plate kit. End ported – 1/4" PTF	1/4" NPT	3/8"	C24250628	C24470628	MS002A

						
V70431-P5F	End plate kit with 2 side ported valve stations without pilot ports – Inlet ports 1/4" PTF	1/4" NPT	3/8"	C24250628	C24470628	MS002A
	Exhaust ports 1/8" PTF	1/8" NPT	1/4"	C24250418	C24470418	MS001A

MINI ISO STAR VALVES v44/V45 Series

5/2 and 5/3 Valves – Solenoid and pilot actuated – ISO 15407-1/VDMA 24 563 – Size 26 mm

High performance, compact design

Flexible sub-base system

Multipressure system capability

Wide range of accessories

Dual spool technology

V44 Glandless spool and sleeve (long life)

V45 Softseal spool (high flow)

Easy to convert from internal to external pilot supply

Valve exchange under pressure

TECHNICAL DATA

Medium:

Compressed air, 40 µm filtered, lubricated or non-lubricated

Operation:

V44: Glandless spool valve, solenoid pilot or air pilot actuated

V45: Softseal spool valve, solenoid pilot or air pilot actuated

Operating pressure:

Maximum pressure

145 psig (10 bar) V45 models and V44 solenoid pilot actuated valves with internal pilot supply

232 psig (16 bar) V44 solenoid pilot actuated valves with external pilot supply and V44 air pilot actuated valves

Ambient temperature:

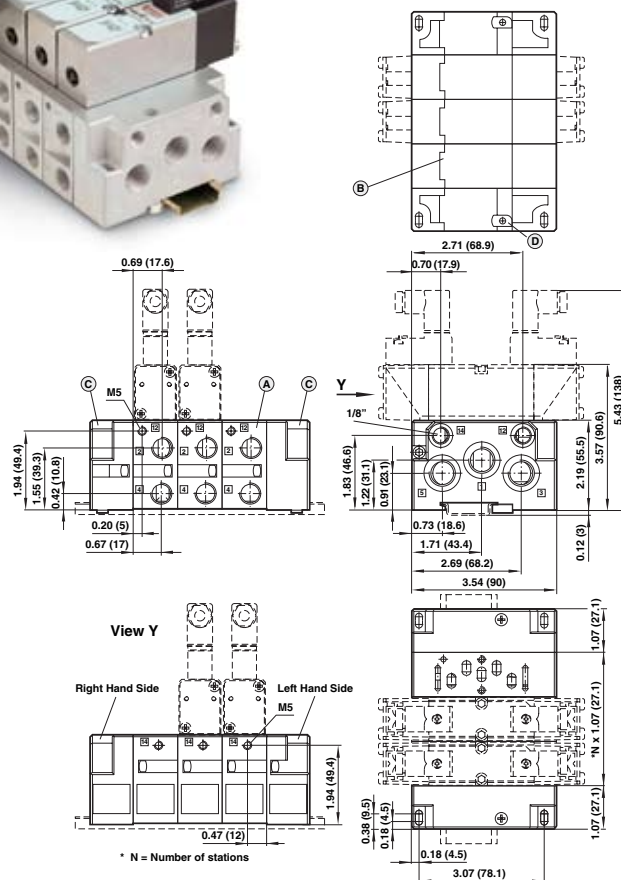
-15°C to +50°C V44/V45 solenoid and V45 air pilot 5°F* to +122°F [-15°C* to +50°C] V44/V45 sol. and V45 air pilot models

5°F* to +176°F [-15°C* to +80°C] V44 air pilot models

*Consult our Application Engineering for use below 36° F (+2°C)



Dimensions in inches (mm)



Models – Softseal Spool (V45 Series)

5/2 VALVES – SOLENOID ACTUATED VALVES INTERNAL PILOT SUPPLY

24 DC Push only M/O
Model No.

115V 50/60 Hz
Model No.

Actuation

Size

Flow
Cv (l/min)

Operating pressure
psig



V45A517D-C313B

V45A517D-C318B

Sol/Spring

26 mm

1.2 (1200)

29 - 145

V45A511D-C313B

V45A511D-C318B

Sol/Sol

26 mm

1.2 (1200)

29 - 145

5/3 VALVES – SOLENOID ACTUATED VALVES INTERNAL PILOT SUPPLY

24 DC Push only M/O
Model No.

115V 50/60 Hz
Model No.

Actuation

Size

Flow
Cv (l/min)

Operating pressure
psig



V45A611D-C313B

V45A611D-C318B

Sol/Sol APB

26 mm

1.1 (1150)

29 - 145

APB – All Ports Blocked



MINI ISO VALVES V44/V45 Series

5/2 and 5/3 Valves – Solenoid and pilot actuated – ISO 15407-1/VDMA 24 563 – Size 26 mm

Models – Softseal Spool (V45 Series)

5/2 VALVES – PILOT ACTUATED VALVES				
Model No.	Actuation	Size	Flow Cv (l/min)	Operating pressure psig
				
V45A537A-X0090	Air/Spring	26 mm	1.2 (1200)	26" - 145
V45A533A-X0020	Air/Air	26 mm	1.2 (1200)	26" - 145

Models – Glandless Spool (V44 Series)

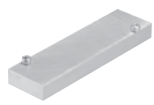
5/2 VALVES – SOLENOID ACTUATED VALVES INTERNAL PILOT SUPPLY					
24 DC Push only M/O Model No.	115v 50/60 Hz Model No.	Actuation	Size	Flow Cv (l/min)	Operating pressure psig
					
V44A517D-C313B	V44A517D-C318B	Sol/Spring	26 mm	0.9 (900)	23.2 - 145
V44A511D-C313B	V44A511D-C318B	Sol/Sol	26 mm	0.9 (900)	29 - 145

5/2 VALVES – PILOT ACTUATED VALVES				
Model No.	Actuation	Size	Flow Cv (l/min)	Operating pressure psig

				
V44A537A-X0090	Air/Spring	26 mm	0.9 (900)	26" Hg - 232
V44A533A-X0020	Air/Air	26 mm	0.9 (900)	26" Hg - 232

* Requires modular sub-base V70525-2AF or V70525-RAF

BASES AND ACCESSORIES

Single pressure regulator plate	Flow regulator plate	Blanking plate for unused station	Blanking disk to modular sub-base (qty 1)
			
V70527-KA1 (Port 1 reg.)	V70528-KA0 (Ports 3+5 reg.)	V70500-KA0	V70522-K00 (Ports 1,3,or 5)

Models

SINGLE STATION		Accessories				
Model No.	Description	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
						
V70501-RAB	Single station side ported with pilot ports – 1/4"	1/4" NPT	3/8"	C24250628	C24470628	MS002Av

MODULAR SUB-BASES AND END PLATES

Model No.	Description	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
						
V70525-2AF	Modular sub-base side ported (PIF) with pilot ports – 3/8"	1/4" NPT	3/8"	C24250628	C24470628	MS002A
V70525-RAF	Modular sub-base side ported (PTF) with pilot ports – 1/4"	1/8" NPT	1/4"	C24250418	C24470418	MS001A

						
V70254-SAC	End plate kit. End ported – 3/8"	1/4" NPT	3/8"	C24250628	C24470628	MS002A

Service – Quality – Delivery

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VAL-9

ISO★STAR Solenoid and pilot actuated spool valves

Subbase 5/2 and 5/3, ISO #1 and ISO #2

Specially coated glandless spool and sleeve for extremely long life

Available with integral flow regulators on ISO #1 and #2 sizes

Low power solenoids and manual override as standard

Wide range of sub-bases and accessories

TECHNICAL DATA

Medium:

Compressed air, 40 µm filtered, lubricated or non-lubricated

Operation:

Glandless spool valve, solenoid pilot or air pilot actuated

Maximum Pressure:

145 psig (10 bar) solenoid pilot actuated valves with internal pilot supply

232 psig (16 bar) solenoid pilot actuated valves with external pilot supply

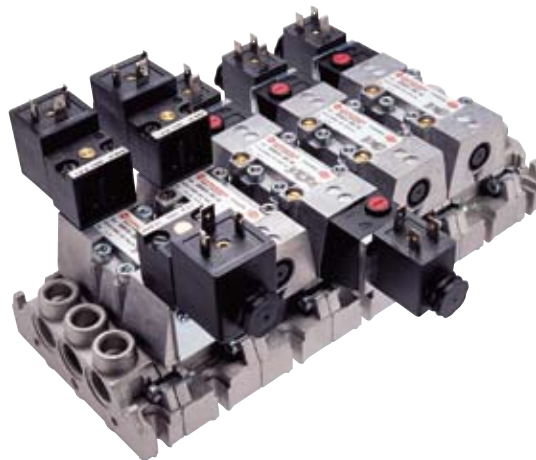
232 psig (16 bar) air pilot actuated valves

Ambient temperature:

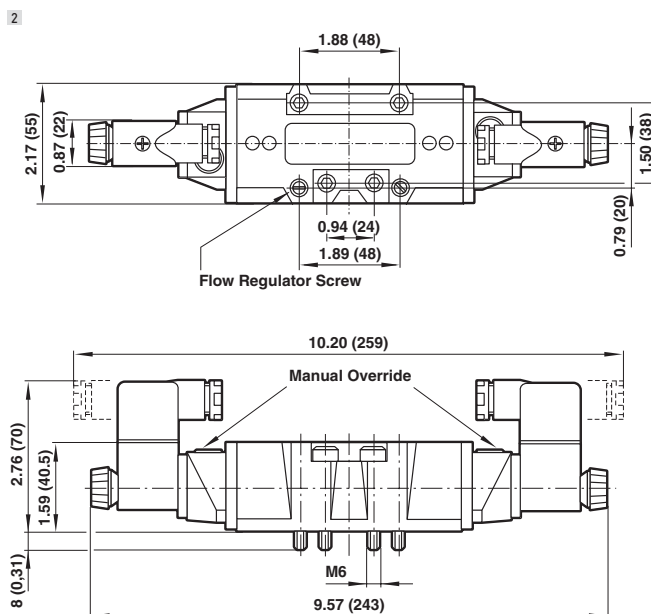
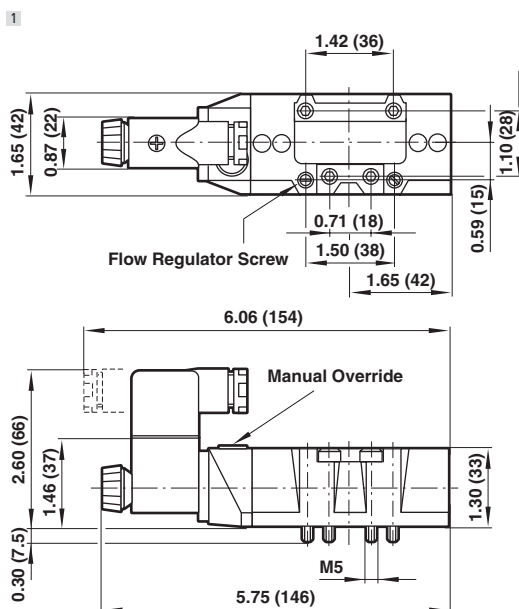
5°F* to 122°F (-15°C to 50°C) solenoid pilot actuated valves

5°F* to 176°F (-15°C to 80°C) air pilot actuated valves

*Consult our Technical Service for use below 36°F (2°C)



Dimensions in inches (mm)



ISO★STAR Solenoid and pilot actuated spool valves

Subbase 5/2 and 5/3, ISO #1 and ISO #2

Models – 22mm Coil, Industrial Standard

5/2 VALVES – SOLENOID ACTUATED, INTERNAL PILOT SUPPLY
24 DC Push lockable M/O
Model No.

110/120V 50/60 Hz
Model No.

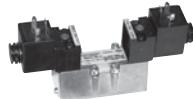
Actuation

Size

Flow
Cv (l/min)

Operating pressure
PSIG (bar)

Drawing
No.



SXE9573A800013JB	SXE9573A800018JB	Sol/ Air spring	ISO 1	1.2 [1200]	14.5 - 145 (1 - 10)	1
SXE9574A800013JB	SXE9574A800018JB	Sol/ Air spring	ISO 2	2.4 [2400]	14.5 - 145 (1 - 10)	1
SXE0573A600013JB	SXE0573A600018JB	Sol/Sol	ISO 1	1.2 [1200]	29 - 145 (2 - 10)	1
SXE0574A600013JB	SXE0574A600018JB	Sol/Sol	ISO 2	2.4 [2400]	29 - 145 (2 - 10)	1

5/3 VALVES – SOLENOID ACTUATED, INTERNAL PILOT SUPPLY
24 DC Push lockable M/O
Model No.

110/120V 50/60 Hz
Model No.

Actuation

Size

Flow
Cv (l/min)

Operating pressure
PSIG (bar)

Drawing
No.



SXE9673-A60-0013JB	SXE9673-A60-0018JB	Sol/Sol APB	ISO 1	1.2 [1200]	29 - 145 (2 - 10)	2
SXE9674-A60-0013JB	SXE9674-A60-0018JB	Sol/Sol APB	ISO 2	2.4 [2400]	29 - 145 (2 - 10)	2

APB = All Ports Blocked, COE = Center Open Exhaust, COP = Center Open Pressure.

Note: ISO 1 and 2 with integral flow regulators

VDMA 24 345 Base Range and Accessories



239-251	Blanking disc (dual supply) 1/4"	Size ISO 1
239-252	Blanking disc (dual supply) 3/8"	Size ISO 2



RM1A-8B	Single pressure regulator, port 1 regulated 1/4"
RM2A-8B	Single pressure regulator, port 1 regulated 3/8"

Accessories

MODULAR SUB-BASES AND END PLATES

Model No.	Description	Size	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
							
C/P19126	Form 'A' single station sub-base, side ported - 1/4"	ISO 1	1/8" NPT	1/4"	C24250418	C24470418	MS001A
C/P19132	Form 'A' single station sub-base, side ported - 3/8"	ISO 2	1/4" NPT	3/8"	C24250628	C24470628	MS002A
C/P19138	Form 'A' single station sub-base, side ported - 1/2"	ISO 3	1/2" NPT	1/2"	C24250748	C24470748	MS004A



239-238B	Form 'C' modular sub-base, bottom ported - 1/4"	ISO 1	1/4" NPT	3/8"	C24250628	C24470628	MS002A
239-242B	Form 'C' modular sub-base, bottom ported - 3/8"	ISO 2	1/8" NPT	1/4"	C24250418	C24470418	MS001A



239-289B	Form 'D' modular sub-base end plates - 1/4"	ISO 1	1/4" NPT	3/8"	C24250628	C24470628	MS002A
239-291B	Form 'D' modular sub-base end plates - 3/8"	ISO 2	1/8" NPT	1/4"	C24250418	C24470418	MS001A

Service – Quality – Delivery

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VAL-11

VALVES

2

IN-LINE VALVES V60 - 62 Series

3/2, 5/2, 5/3 solenoid actuated 1/8" to 1/2"

High flow rate

Low power consumption (2 W)

TECHNICAL DATA

Medium:

Compressed air, filtered to 50µm,
lubricated or non-lubricated

Voltage:

24 V d.c., 220 V a.c. (other options available)

Ambient and medium temperature:

14°F to 122°F (-10°C to +50°C)

(consult our Technical Service for use below 36°F (+2°C))



Models – 3/2 Valves

Accessories

SOLENOID ACTUATED, INTERNAL PILOT, INDUSTRIAL STANDARD 22MM COIL								Thread	Tube	Straight	90° swivel	Muffler
24 VDC	120 AC	Actuation	Port size	Flow Cv	Operating	Manual	Drawing	NPT	Size	Fitting	elbow	
Push Only M/O	Push Only M/O		NPT	(l/min)	pressure (psi)	override	No.					
												
V60P417AA213JB	V60P417AA218JB	Sol/spring NC	1/8"	0.75 (750)	29 to 145	locking	1	1/8"	1/4"	C24250418	C24470418	MS001A
V60P417AA313JB	V60P417AA318JB	Sol/spring NC	1/8"	0.75 (750)	29 to 145	non-locking	1	1/8"	1/4"	C24250418	C24470418	MS001A
V61R417AA213JB	V61R417AA218JB	Sol/spring NC	1/4"	1.30 (1300)	29 to 145	locking	1	1/4"	3/8"	C24250628	C24470628	MS002A
V61R417AA313JB	V61R417AA318JB	Sol/spring NC	1/4"	1.30 (1300)	29 to 145	non-locking	1	1/4"	3/8"	C24250628	C24470628	MS002A
V62S417AA313JB	V62S417AA318JB	Sol/spring NC	3/8"	2.60 (2600)	29 to 145	non-locking	1	3/8"	3/8"	C24250638	C24470638	MS003A

Models – 5/2 Solenoid/spring

SOLENOID ACTUATED, INTERNAL PILOT, INDUSTRIAL STANDARD 22MM COIL								Thread	Tube	Straight	90° swivel	Muffler
24 VDC	120 AC	Actuation	Port size	Flow Cv	Operating	Manual	Drawing	NPT	Size	Fitting	elbow	
Push Only M/O	Push Only M/O		NPT	(l/min)	pressure (psi)	override	No.					
												
V60P517AA213JB	V60P517AA218JB	Sol/spring	1/8"	0.75 (750)	29 to 145	locking	9	1/8"	1/4"	C24250418	C24470418	MS001A
V60P517AA313JB	V60P517AA318JB	Sol/spring	1/8"	0.75 (750)	29 to 145	non-locking	9	1/8"	1/4"	C24250418	C24470418	MS001A
V61R517AA313JB	V61R517AA318JB	Sol/spring	1/4"	1.30 (1300)	29 to 145	non-locking	9	1/4"	3/8"	C24250628	C24470628	MS002A
V61R517AA213JB	V61R517AA218JB	Sol/spring	1/4"	1.30 (1300)	29 to 145	locking	9	1/4"	3/8"	C24250628	C24470628	MS002A
V62S511AA313JB	V62S511AA318JB	Sol/spring	3/8"	2.60 (2600)	29 to 145	non-locking	10	3/8"	3/8"	C24250638	C24470638	MS003A
V62S517AA313JB	V62S517AA318JB	Sol/spring	3/8"	2.60 (2600)	29 to 145	non-locking	9	3/8"	3/8"	C24250638	C24470638	MS003A

Models – 5/2 Solenoid/solenoid

SOLENOID ACTUATED, INTERNAL PILOT, INDUSTRIAL STANDARD 22MM COIL								Thread	Tube	Straight	90° swivel	Muffler
24 VDC	120 AC	Actuation	Port size	Flow (Cv)	Operating	Manual	Drawing	NPT	Size	Fitting	elbow	
Push Only M/O	Push Only M/O		NPT	(l/min)	pressure (psi)	override	No.					
												
V60P511AA213JB	V60P511AA218JB	Sol/sol	1/8"	0.75 (750)	29 to 145	locking	10	1/8"	1/4"	C24250418	C24470418	MS001A
V60P511AA313JB	V60P511AA318JB	Sol/sol	1/8"	0.75 (750)	29 to 145	non-locking	10	1/8"	1/4"	C24250418	C24470418	MS001A
V61R511AA213JB	V61R511AA218JB	Sol/sol	1/4"	1.30 (1300)	29 to 145	locking	10	1/4"	3/8"	C24250628	C24470628	MS002A
V61R511AA313JB	V61R511AA318JB	Sol/sol	1/4"	1.30 (1300)	29 to 145	non-locking	10	1/4"	3/8"	C24250628	C24470628	MS002A



IN-LINE VALVES V60 - 62 Series

3/2, 5/2, 5/3 solenoid actuated 1/8" to 1/2"

Models – 5/3 Valves

SOLENOID ACTUATED, INTERNAL PILOT, INDUSTRIAL STANDARD 22MM COIL								Accessories				
24 VDC Push Only M/O	120 AC Push Only M/O	Actuation	Port size NPT	Flow Cv (l/min)	Operating pressure (psi)	Manual override	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
												
V60P611AA213JB	V60P611AA218JB	Sol/sol APB	1/8"	0.75 [750]	29 to 145	locking	14	1/8"	1/4"	C24250418	C24470418	MS001A
V60P611AA313JB	V60P611AA318JB	Sol/sol APB	1/8"	0.75 [750]	29 to 145	non-locking	14	1/8"	1/4"	C24250418	C24470418	MS001A
V61R611AA313JB	V61R611AA318JB	Sol/sol APB	1/4"	1.30 [1300]	29 to 145	non-locking	14	1/4"	3/8"	C24250628	C24470628	MS002A
V61R611AA213JB	V61R611AA218JB	Sol/sol APB	1/4"	1.30 [1300]	29 to 145	locking	14	1/4"	3/8"	C24250628	C24470628	MS002A
V62S611AA313JB	V62S611AA318JB	Sol/sol APB	3/8"	2.60 [2600]	29 to 145	non-locking	14	3/8"	3/8"	C24250638	C24470638	MS003A

Replacement Connectors

Description	Part number	Description	Part number
Cable grip connector	54934-01	Molded 5-ft cable connector 0-220 VAC/DC	54934-21
Cable grip connector with indicator light		Molded 5-ft cable connector with indicator light	
110/120 VAC/DC	54934-02	and surge suppression	
24 VAC/DC	54934-08	110 VAC/DC	54934-30
1/2" NPT conduit	54934-05	110 VAC/DC	54934-35

Model - Air/Spring Valves

Model No.	Function	Actuation	Port size	Flow Cv (l/min)	Operating pressure (psig)	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
											
V60P4D7AXP0900	3/2 NC	Air/spring	1/8"	0.75 [750]	26" Hg to 145	16	1/8"	1/4"	C24250418	C24470418	MS001A
V61R4D7AXP0900	3/2 NC	Air/spring	1/4"	1.30 [1300]	26" Hg to 145	16	1/4"	3/8"	C24250628	C24470628	MS002A
V62S4D7AXP0900	3/2 NC	Air/spring	3/8"	2.60 [2600]	26" Hg to 145	16	3/8"	3/8"	C24250638	C24470638	MS003A
V62S5D7AXP0900	3/2 NC	Air/spring	3/8"	2.60 [2600]	26" Hg to 145	15	3/8"	3/8"	C24250638	C24470638	MS003A
V60P5D7AXP0900	5/2	Air/spring	1/8"	0.75 [750]	26" Hg to 145	22	1/8"	1/4"	C24250418	C24470418	MS001A
V61R5D7AXP0900	5/2	Air/spring	1/4"	1.30 [1300]	26" Hg to 145	22	1/4"	3/8"	C24250628	C24470628	MS002A

Air/Pilot Valves

Model No.	Function	Actuation	Port size	Flow Cv (l/min)	Operating pressure (psig)	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
											
V60P5DDAXP0200	5/2	Air/air	1/8"	0.75 [750]	26" Hg to 145	23	1/8"	1/4"	C24250418	C24470418	MS001A
V61R5DDAXP0200	5/2	Air/air	1/4"	1.30 [1300]	26" Hg to 145	23	1/4"	3/8"	C24250628	C24470628	MS002A
V62S5DDAXP0200	5/2	Air/air	3/8"	2.60 [2600]	26" Hg to 145	23	3/8"	3/8"	C24250638	C24470638	MS003A
V60P6DDAXP0200	5/3 APB	Air/air	1/8"	0.50 [500]	26" Hg to 145	24	1/8"	1/4"	C24250418	C24470418	MS001A
V61R6DDAXP0200	5/3 APB	Air/air	1/4"	0.95 [950]	26" Hg to 145	24	1/4"	3/8"	C24250628	C24470628	MS002A
V62S6DDAXP0200	5/3 APB	Air/air	3/8"	1.90 [1900]	26" Hg to 145	24	3/8"	3/8"	C24250638	C24470638	MS003A

Service – Quality – Delivery

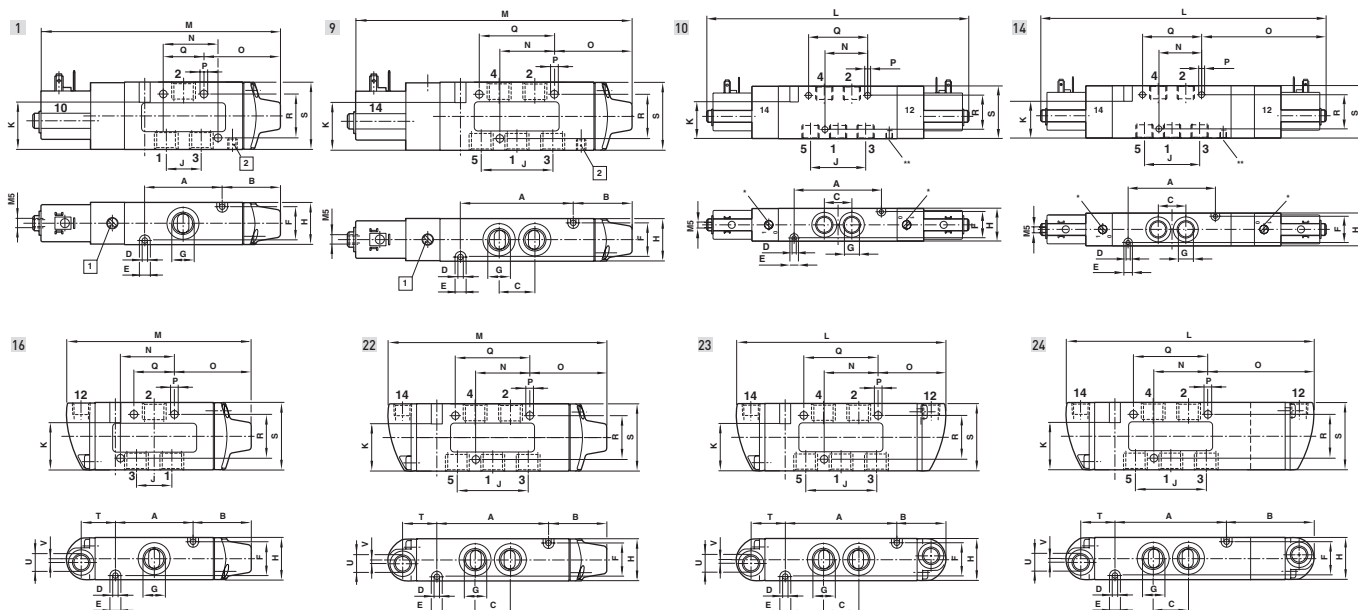
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VAL-13

IN-LINE VALVES V60 - 63 Series

3/2, 5/2, 5/3 solenoid actuated 1/8" to 1/2"



Dimensions in inches

Series	Drawing	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U
V60	1	1.38	0.67	-	0.13	0.26	0.67	1/8	0.87	0.64	1.10	-	4.49	0.98	0.98	0.18	0.71	1.02	1.38	-	-
V61	1	1.81	0.79	-	0.13	0.26	0.79	1/4	0.98	0.83	1.10	-	5.22	1.26	1.22	0.18	0.94	1.02	1.57	-	-
V62	1	2.13	0.83	-	0.18	0.31	1.10	3/8	1.34	0.96	1.73	-	5.71	0.47	1.42	0.18	1.02	1.42	2.17	-	-
V60	9	1.97	0.67	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	-	5.08	0.98	0.98	0.18	1.32	1.02	1.38	-	-
V61	9	2.60	0.79	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	-	6.00	1.26	1.22	0.18	1.73	1.02	1.57	-	-
V62	9	3.07	0.83	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	-	6.69	0.47	2.36	0.18	1.02	1.42	2.17	-	-
V60	10	1.97	-	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	6.89	-	0.98	-	0.18	1.32	1.02	1.38	-	-
V61	10	2.60	-	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	7.83	-	1.26	-	0.18	1.73	1.02	1.57	-	-
V62	10	3.07	-	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	8.58	-	0.47	-	0.18	1.02	1.42	2.17	-	-
V60	14	1.97	-	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	7.44	-	0.98	3.33	0.18	1.32	1.02	1.38	-	-
V61	14	2.60	-	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	8.54	-	1.26	-	0.18	1.73	1.02	1.57	-	-
V62	14	3.07	-	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	9.49	-	0.47	5.20	0.18	1.02	1.42	2.17	-	-
V60	16	1.38	1.08	-	0.13	0.26	0.67	1/8	0.87	0.64	1.10	-	3.54	0.98	1.41	0.18	0.71	1.02	1.38	0.73	1/8" NPT
V61	16	1.81	1.36	-	0.13	0.26	0.79	1/4	0.98	0.83	1.10	-	4.33	1.26	1.79	0.18	0.94	1.02	1.57	0.80	1/8" NPT
V62	16	2.13	1.69	-	0.18	0.31	1.10	3/8	1.34	0.96	1.73	-	4.88	0.47	2.28	0.18	1.02	1.42	2.17	0.83	1/8" NPT
V60	22	1.97	1.08	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	-	4.13	0.98	1.41	0.18	1.73	1.02	1.38	0.74	1/8" NPT
V61	22	2.60	1.36	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	-	5.12	1.26	1.79	0.18	1.02	1.02	1.57	0.80	1/8" NPT
V62	22	3.07	1.69	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	-	5.83	0.47	3.23	0.18	1.32	1.42	2.17	0.83	1/8" NPT
V60	23	1.97	1.07	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	4.11	-	0.98	1.40	0.18	1.73	1.02	1.38	0.74	1/8" NPT
V61	23	2.60	1.14	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	4.88	-	1.26	1.57	0.18	1.02	1.02	1.57	0.80	1/8" NPT
V62	23	3.07	1.06	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	5.20	-	0.47	2.60	0.18	1.32	1.42	2.17	0.83	1/8" NPT
V60	24	1.97	1.63	0.64	0.13	0.26	0.67	1/8	0.87	1.28	1.10	4.67	-	0.98	1.95	0.18	1.73	1.02	1.38	0.74	1/8" NPT
V61	24	2.60	2.05	0.83	0.13	0.26	0.79	1/4	0.98	1.65	1.10	5.79	-	1.26	2.48	0.18	1.02	1.02	1.57	0.80	1/8" NPT
V62	24	3.07	1.95	0.96	0.18	0.31	1.10	3/8	1.34	1.92	1.73	6.08	-	0.47	3.48	0.18	1.32	1.42	2.17	0.83	1/8" NPT

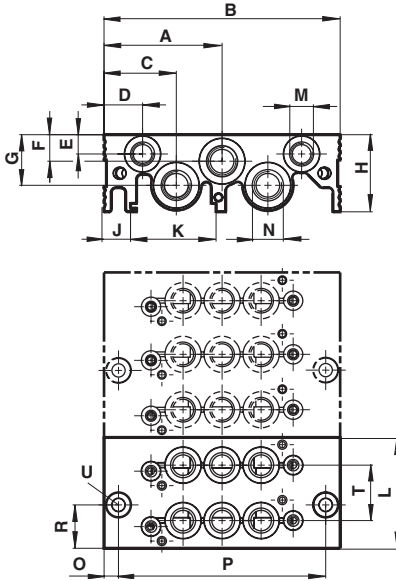
IN-LINE VALVES V60 - 63 Series

3/2, 5/2, 5/3 solenoid actuated 1/8" to 1/2"

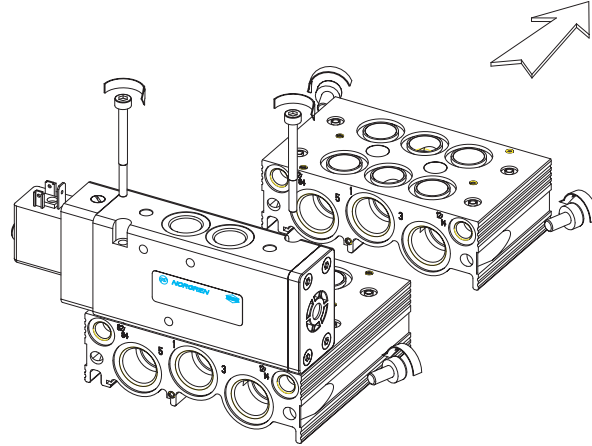
VALVES

2

Drawing dimensions
Manifold plate 2 stations + 3 stations



Extension possibilities with manifold plates



Dimensions in inches

Type		A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	T	U
V60	2 stations	1.93	3.86	1.18	0.63	0.31	0.43	0.83	1.26	0.43	1.40	1.81	1/8	1/4	0.24	3.39	1.10	0.91	10-32
V60	3 stations	1.93	3.86	1.18	0.63	0.31	0.43	0.83	1.26	0.43	1.40	2.72	1/8	1/4	0.24	3.39	1.10	0.91	10-32
V61	2 stations	2.05	4.09	1.02	0.35	0.31	0.51	0.83	1.30	0.39	1.40	2.05	1/8	3/8	1.57	0.94	1.02	1.02	10-32
V61	3 stations	2.05	4.09	1.02	0.35	0.31	0.51	0.79	1.30	0.39	1.40	3.07	1/8	3/8	1.57	0.94	2.05	1.02	10-32
V62	2 stations	2.36	4.72	1.14	0.35	0.31	0.59	0.87	1.50	0.51	1.40	2.76	1/8	1/2	1.73	1.26	1.38	1.38	M6
V62	3 stations	2.36	4.72	1.14	0.35	0.31	0.59	0.87	1.50	0.51	1.40	4.13	1/8	1/2	1.73	1.26	2.76	1.38	M6

Manifold Plates

Series	2 valve ports model number	3 valve ports Model number
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V60	2221032	2221033
V61	2221132	2221133
V62	2221232	2221233

Accessories

Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
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1/8"	1/4"	C24250418	C24470418	MS001A
1/4"	3/8"	C24250628	C24470628	MS002A
3/8"	3/8"	C24250638	C24470638	MS003A

Solenoid Coils

Description	Part number
240V/60Hz-220V/50Hz, 7.5W	54452-07
120V/60Hz-110V/50Hz, 7.5W	54452-01
12VDC, 7.5W	54452-02
24VDC, 6W	54452-03

Coils

STANDARD (22 MM COIL INDUSTRIAL STANDARD)			
Model	Voltage	Coil code	Power inrush/hold
54469-01	12 V d.c.	12J	2 W
54469-02	24 V d.c.	13J	2 W
54469-03	110/120 V 50/60 Hz	18J	4/2.5 VA
54469-08	220/240 V 50/60 Hz	19J	6/5 VA

Replacement Connectors

Description	Part number
Cable grip connector	54934-01
Cable grip connector with indicator light	
110/120 VAC/DC	54934-02
24 VAC/DC	54934-08
1/2" NPT conduit	54934-05
Molded 5-ft cable connector 0-220 VAC/DC	54934-21
Molded 5-ft cable connector with indicator light and surge suppression	
24 VAC/DC	54934-30
110 VAC/DC	54934-35

Service – Quality – Delivery

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VAL-15

IN-LINE VALVES V50 - 53 Series

3/2, 5/2, and 5/3 Solenoid and Air actuated 1/8" NPT to 1/2" NPT

High flow in-line valves

Compact and robust design

Flexible in-line and manifold mounting options

TECHNICAL DATA

Medium:

Compressed air, filtered to 40 µm,

lubricated or non-lubricated

Operation:

Softseal spool valve, solenoid and air pilot actuated

Mounting:

In-line or fixed length manifold

Maximum operating pressure:

116 psi [8 bar]

Ambient & medium temperature:

23°F to 140°F [-5°C to 60°C] pilot models

23°F to 122°F [-5°C to 50°C] solenoid models

(Consult our Technical Service for use below 36°F [2°C])

MATERIALS

Body/sub-base: die-cast aluminum alloy or aluminum alloy

Softseal spool: NBR/aluminum alloy

Mounting screws: Plated steel

Springs: stainless steel



Models

V50 – 1/8" NPT, AIR PILOT VALVES					Accessories				
Model No.	Function	Actuation	Flow Cv (l/min)	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
V50P4DDAXP0200	3/2	Pilot/Pilot	0.48 [480]	14	1/8"	1/4"	C24250418	C24470418	MS001A
V50P4D3AXP0900	3/2	Pilot/Spg	0.48 [480]	12	1/8"	1/4"	C24250418	C24470418	MS001A
V50P5DDAXP0200	5/2	Pilot/Pilot	0.48 [480]	18	1/8"	1/4"	C24250418	C24470418	MS001A
V50P5D3AXP0900	5/2	Pilot/Spg	0.48 [480]	16	1/8"	1/4"	C24250418	C24470418	MS001A
V50P6DDAXP0200	5/3	Pilot/Pilot APB	0.27 [270]	20	1/8"	1/4"	C24250418	C24470418	MS001A
V51 – 1/4" NPT, AIR PILOT VALVES									
Model No.	Function	Actuation	Flow Cv (l/min)	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
V51R4DDAXP0200	3/2	Pilot/Pilot	1.02 [1020]	14	1/4"	3/8"	C24250628	C24470628	MS002A
V51R4D7AXP0900	3/2	NC,Pilot/Spg	1.02 [1020]	12	1/4"	3/8"	C24250628	C24470628	MS002A
V51R5DDAXP0200	5/2	Pilot/Pilot	1.02 [1020]	18	1/4"	3/8"	C24250628	C24470628	MS002A
V51R5D7AXP0900	5/2	Pilot/Spg	1.02 [1020]	16	1/4"	3/8"	C24250628	C24470628	MS002A
V51R6DDAXP0200	5/3	Pilot/Pilot APB	0.75 [750]	20	1/4"	3/8"	C24250628	C24470628	MS002A
V52 – 3/8" NPT, AIR PILOT VALVES									
Model No.	Function	Actuation	Flow Cv (l/min)	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
V52S4DDAXP0200	3/2	Pilot/Pilot	1.70 [1700]	15	3/8" NPT	3/8"	C24250638	C24470638	MS003A
V52S4D7AXP0900	3/2	Pilot/Spg	1.70 [1700]	13	3/8" NPT	3/8"	C24250638	C24470638	MS003A
V52S5DDAXP0200	5/2	Pilot/Pilot	1.70 [1700]	19	3/8" NPT	3/8"	C24250638	C24470638	MS003A
V52S5D7AXP0900	5/2	Pilot/Spg	1.70 [1700]	17	3/8" NPT	3/8"	C24250638	C24470638	MS003A
V52S6DDAXP0200	5/3 APB	Pilot/Pilot	1.19 [1190]	22	3/8" NPT	3/8"	C24250638	C24470638	MS003A



IN-LINE VALVES V50-53 Series

3/2, 5/2, and 5/3 Solenoid and Air actuated 1/8" NPT to 1/2" NPT

Models

V53 – 1/2" NPT, AIR PILOT VALVES						Accessories				
Model No.	Function	Actuation	Flow Cv (l/min)	Drawing No.		Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
										
V53T4DDAXP0200	3/2	Pilot/Pilot	2.48 [2480]	15		1/2" NPT	1/2"	C24250748	C24470748	MS004A
V53T4D7AXP0900	3/2	Pilot/Spg	2.48 [2480]	13		1/2" NPT	1/2"	C24250748	C24470748	MS004A
V53T5DDAXP0200	5/2	Pilot/Pilot	2.48 [2480]	19		1/2" NPT	1/2"	C24250748	C24470748	MS004A
V53T5D7AXP0900	5/2	Pilot/Spg	2.48 [2480]	17		1/2" NPT	1/2"	C24250748	C24470748	MS004A
V53T6DDAXP0200	5/3 APB	Pilot/Pilot	1.91 [1910]	23		1/2" NPT	1/2"	C24250748	C24470748	MS004A

V50 – 1/8" NPT, 0 TO 240 VAC/DC CABLE GRIP CONNECTOR							Accessories				
24 VDC Model No.	110 VAC Model No.	Function	Actuation	Flow Cv (l/min)	Manual Override	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
											
V50P411AA213AB	V50P411AA218AB	3/2	Sol/Sol	0.48 [480]	Push & turn	3	1/8"	1/4"	C24250418	C24470418	MS001A
V50P413AA213AB	V50P413AA218AB	3/2	Sol/Spg	0.48 [480]	Push & turn	1	1/8"	1/4"	C24250418	C24470418	MS001A
V50P511AA213AB	V50P511AA218AB	5/2	Sol/Sol	0.48 [480]	Push & turn	7	1/8"	1/4"	C24250418	C24470418	MS001A
V50P513AA213AB	V50P513AA218AB	5/2	Sol/Spg	0.48 [480]	Push & turn	5	1/8"	1/4"	C24250418	C24470418	MS001A
V50P611AA213AB	V50P611AA218AB	5/3	Sol/Sol APB	0.27 [270]	Push & turn	9	1/8"	1/4"	C24250418	C24470418	MS001A

V51 – 1/4" NPT, 0 TO 240 VAC/DC CABLE GRIP CONNECTOR							Accessories				
24 VDC Model No.	110 VAC Model No.	Function	Actuation	Flow Cv (l/min)		Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
											
V51R411AA213JB	V51R411AA218JB	3/2	Sol/Sol	1.02 [1020]	Push & turn	4	1/4"	3/8"	C24250628	C24470628	MS002A
V51R417AA213JB	V51R417AA218JB	3/2	Sol/Spr	1.02 [1020]	Push & turn	2	1/4"	3/8"	C24250628	C24470628	MS002A
V51R511AA213JB	V51R511AA218JB	5/2	Sol/Sol	1.02 [1020]	Push & turn	8	1/4"	3/8"	C24250628	C24470628	MS002A
V51R517AA213JB	V51R517AA218JB	5/2	Sol/Spr	1.02 [1020]	Push & turn	6	1/4"	3/8"	C24250628	C24470628	MS002A
V51R611AA213JB	V51R611AA218JB	5/3	APB Sol/Sol	0.75 [750]	Push & turn	10	1/4"	3/8"	C24250628	C24470628	MS002A

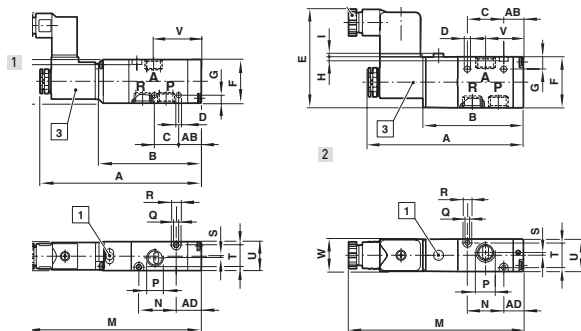
V52 – 3/8" NPT, 0 TO 240 VAC/DC CABLE GRIP CONNECTOR							Accessories				
24 VDC Model No.	110 VAC Model No.	Function	Actuation	Flow Cv (l/min)	Manual Override	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
											
V52S411AA213JB	V52S411AA218AB	3/2	Sol/Sol	0.48 [480]	Push & turn	4	3/8" NPT	3/8"	C24250638	C24470638	MS003A
V52S417AA213JB	V52S417AA218AB	3/2	Sol/Spg	0.48 [480]	Push & turn	2	3/8" NPT	3/8"	C24250638	C24470638	MS003A
V52S511AA213JB	V52S511AA218AB	5/2	Sol/Sol	0.48 [480]	Push & turn	8	3/8" NPT	3/8"	C24250638	C24470638	MS003A
V52S517AA213JB	V52S517AA218AB	5/2	Sol/Spg	0.48 [480]	Push & turn	6	3/8" NPT	3/8"	C24250638	C24470638	MS003A
V52S611AA213JB	V52S611AA218AB	5/3	APB Sol/Sol	0.27 [270]	Push & turn	11	3/8" NPT	3/8"	C24250638	C24470638	MS003A

V53 – 1/2" NPT, 0 TO 240 VAC/DC CABLE GRIP CONNECTOR							Accessories				
24 VDC Model No.	110 VAC Model No.	Function	Actuation	Flow Cv (l/min)	Manual Override	Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
											
V53T411AA213JB	V53T411AA218JB	3/2	Sol/Sol	2.48 [2480]	Push & turn	4	1/2" NPT	1/2"	C24250748	C24470748	MS004A
V53T417AA213JB	V53T417AA218JB	3/2	Sol/Spr	2.48 [2480]	Push & turn	2	1/2" NPT	1/2"	C24250748	C24470748	MS004A
V53T511AA213JB	V53T511AA218JB	5/2	Sol/Sol	2.48 [2480]	Push & turn	8	1/2" NPT	1/2"	C24250748	C24470748	MS004A
V53T517AA213JB	V53T517AA218JB	5/2	Sol/Spr	2.48 [2480]	Push & turn	6	1/2" NPT	1/2"	C24250748	C24470748	MS004A
V53T611AA213JB	V53T611AA218JB	5/3	APB Sol/Sol	1.91 [1910]	Push & turn	11	1/2" NPT	1/2"	C24250748	C24470748	MS004A

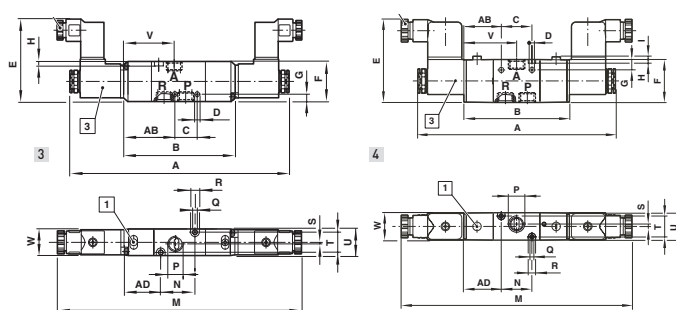
IN-LINE VALVES V50 - 53 Series

3/2, 5/2, and 5/3 Solenoid and Air actuated 1/8" NPT to 1/2" NPT

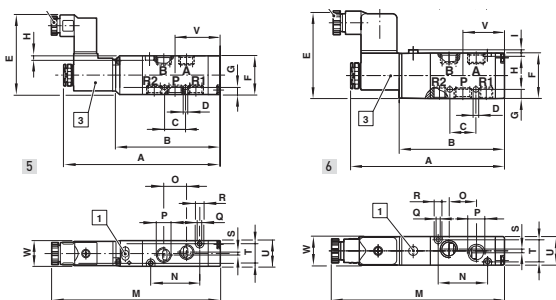
Dimensions in inches



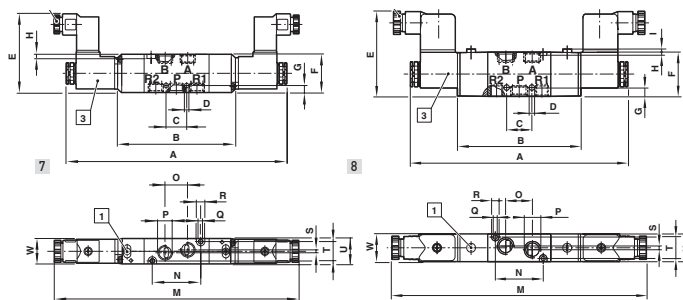
Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J
V50	1	3.92	0.53	0.85	0.59	2.56	0.59	0.13	2.19	1.06	0.20	0.12	-	1/8"
V51	2	4.23	0.53	0.67	0.53	2.72	0.98	0.17	2.68	1.38	0.33	0.12	0.12	1/4"
V52	2	4.98	0.51	1.02	0.59	3.50	1.02	0.18	2.87	1.83	1.56	0.16	0.12	3/8"
V53	2	5.24	0.49	1.06	0.59	3.78	1.14	0.18	2.87	1.83	1.56	0.16	0.12	1/2"
Series	Drawing	L	M	N	P	Q	R	S	T	U	V	W	X	
V50	1	0.57	4.25	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.63	0.02	
V51	2	0.71	4.72	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	0.87	-	
V52	2	1.02	5.49	1.61	3/8"	0.18	0.31	-	0.91	1.18	1.61	0.87	-	
V53	2	1.14	5.75	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	0.87	-	



Series	Drawing	A	AB	AC	AD	B	C	D	E	F	G	H	I	J
V50	3	5.69	1.44	1.14	1.06	3.01	0.59	0.13	2.19	1.06	0.20	0.12	-	1/8"
V51	4	5.75	1.20	1.34	1.20	3.39	0.98	0.17	2.68	1.38	0.33	0.12	0.12	1/4"
V52	4	7.17	1.22	1.73	1.30	4.21	1.02	0.18	2.87	1.83	1.56	0.16	0.12	3/8"
V53	4	7.40	1.20	1.77	1.30	4.49	1.14	0.18	2.87	1.83	1.56	0.16	0.12	1/2"
Series	Drawing	L	M	N	P	Q	R	S	T	U	V	W	X	
V50	3	0.58	6.46	0.92	1/8"	0.13	0.24	0.04	0.52	0.72	1.42	0.64	0.02	
V51	4	0.72	7.52	1.00	1/4"	0.13	0.24	0.08	0.68	0.90	1.72	0.88	-	
V52	4	1.04	8.32	1.64	3/8"	0.18	0.32	-	0.92	1.20	2.38	0.88	-	
V53	4	1.16	8.56	1.92	1/2"	0.17	0.32	0.10	0.92	1.20	2.34	0.88	-	



Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	5	4.25	2.99	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	6	4.55	3.19	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	6	5.59	4.25	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	6	6.18	4.72	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28
Series	Drawing	M	N	O	P	Q	R	S	T	U	V	W	
V50	5	4.72	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	0.63	
V51	6	5.12	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.26	0.87	
V52	6	6.14	0.51	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	0.87	
V53	6	6.69	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	0.87	

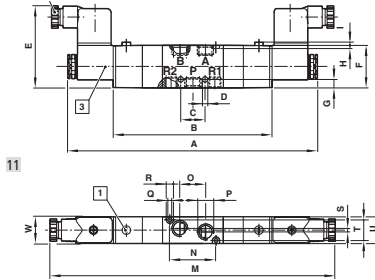
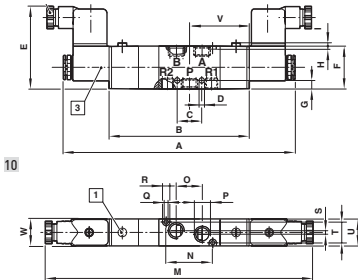
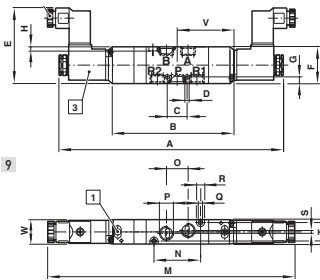


Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	7	6.06	3.43	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	8	6.57	3.82	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	8	7.64	4.96	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	8	8.35	5.43	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28
Series	Drawing	M	N	O	P	Q	R	S	T	U	V	W	
V50	7	6.89	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	0.63		
V51	8	7.80	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	0.87		
V52	8	8.74	0.51	1.18	3/8"	0.18	0.31	-	0.91	1.18	0.87		
V53	8	9.37	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	0.87		

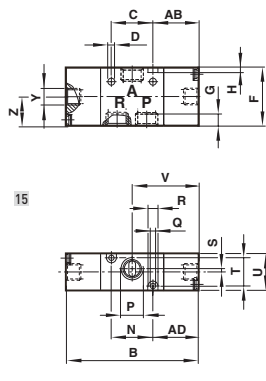
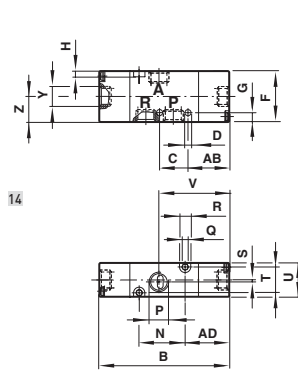
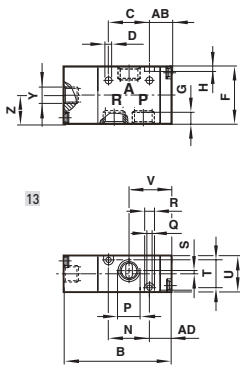
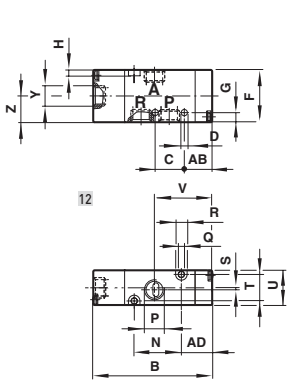
IN-LINE VALVES V50 - 53 Series

3/2, 5/2, and 5/3 Solenoid and Air actuated 1/8" NPT to 1/2" NPT

Dimensions in inches



Series	Drawing	A	B	C	D	E	F	G	H	I	J	K	L
V50	9	6.42	3.78	0.57	0.13	2.17	1.06	0.20	0.12	-	1/8"	1/8"	1.14
V51	10	7.40	4.69	0.79	0.17	2.64	1.38	0.28	0.12	0.12	1/4"	1/8"	1.42
V52	11	9.61	7.07	1.02	0.22	2.83	1.83	0.18	0.16	0.12	3/8"	3/8"	2.05
V53	11	10.45	7.54	1.14	0.18	2.87	1.83	0.28	0.16	0.12	1/2"	1/2"	2.28
Series	Drawing	M	N	O	P	Q	R	S	T	U	V	W	
V50	9	7.24	1.34	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.71	0.63	
V51	10	8.62	1.50	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.91	0.87	
V52	11	10.83	0.51	1.18	3/8"	0.18	0.31	#VALUE!	0.91	1.18	-	0.87	
V53	11	11.48	2.83	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	-	0.87	



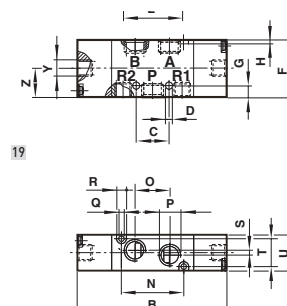
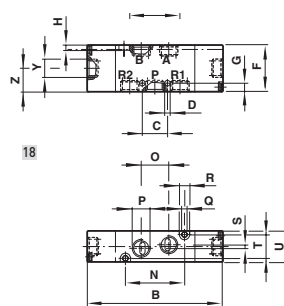
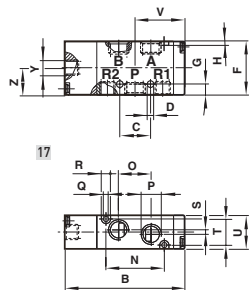
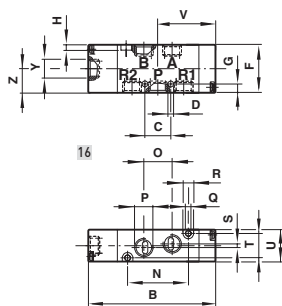
Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
V50	12	0.53	0.85	0.59	2.44	0.59	0.13	1.06	0.20	0.12	1/8"	0.57
V51	13	0.53	0.67	0.53	2.58	0.98	0.17	1.38	0.33	0.12	1/4"	0.71
V52	13	0.51	1.02	0.59	3.43	1.02	0.18	1.83	1.56	0.16	3/8"	1.02
V53	13	0.49	1.06	0.59	0.16	1.14	0.18	1.83	1.56	0.16	1/2"	1.14
Series	Drawing	N	P	Q	R	S	T	U	V	X	Y	Z
V50	12	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.02	1/8"	0.53
V51	13	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	-	1/8"	0.69
V52	13	1.61	3/8"	0.18	0.31	-	0.91	1.18	1.61	-	1/8"	0.67
V53	13	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	-	1/8"	0.79

Series	Drawing	AB	AC	AD	B	C	D	F	G	H	J	L
V50	14	0.54	0.86	0.62	2.74	0.60	0.13	1.07	0.20	0.12	1/8"	0.58
V51	15	0.54	0.68	0.54	3.14	0.99	0.17	1.39	0.34	0.12	1/4"	0.72
V52	15	0.52	1.03	0.60	4.10	1.03	0.18	1.85	1.57	0.16	3/8"	1.03
V53	15	0.50	1.07	0.60	4.38	1.15	0.18	1.85	1.57	0.16	1/2"	1.15
Series	Drawing	N	P	Q	R	S	T	U	V	X	Y	Z
V50	14	0.91	1/8"	0.13	0.24	0.04	0.51	0.71	1.16	0.02	1/8"	0.53
V51	15	0.98	1/4"	0.13	0.24	0.08	0.67	0.89	1.02	-	1/8"	0.69
V52	15	1.61	3/8"	0.18	0.31	0.00	0.91	1.18	1.61	-	1/8"	0.67
V53	15	1.89	1/2"	0.17	0.31	0.10	0.91	1.18	1.59	-	1/8"	0.67

IN-LINE VALVES V50 - 53 Series

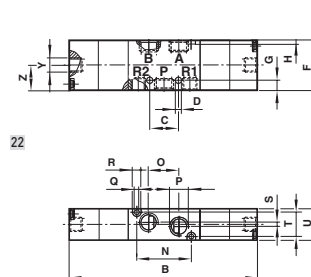
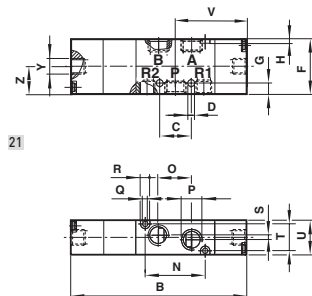
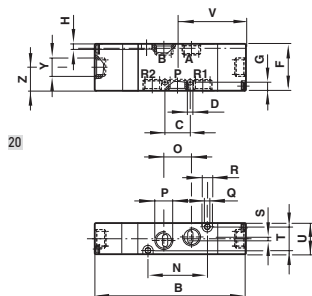
3/2, 5/2, and 5/3 Solenoid and Air actuated 1/8" NPT to 1/2" NPT

Dimensions in inches



Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	16	2.87	0.57	0.13	1.06	0.20	0.12	1/8"	1/8"	1.14	1.34
V51	17	3.05	0.79	0.17	1.38	0.28	0.12	1/4"	1/8"	1.42	1.50
V52	17	4.17	1.02	0.22	1.83	0.18	0.16	3/8"	3/8"	2.05	0.51
V53	17	4.65	1.14	0.18	1.83	0.28	0.16	1/2"	1/2"	2.28	2.83
Series	Drawing	O	P	Q	R	S	T	U	V	Y	Z
V50	16	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	1/8"	0.53
V51	17	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.26	1/8"	0.69
V52	17	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	1/8"	0.67
V53	17	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	1/8"	0.79

Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	18	3.15	0.57	0.13	1.06	0.20	0.12	1/8"	1/8"	1.14	1.34
V51	19	3.58	0.79	0.17	1.38	0.28	0.12	1/4"	1/8"	1.42	1.50
V52	19	4.80	1.02	0.22	1.83	0.18	0.16	3/8"	3/8"	2.05	0.51
V53	19	5.28	1.14	0.18	1.83	0.28	0.16	1/2"	1/2"	2.28	2.83
Series	Drawing	O	P	Q	R	S	T	U	Y	Z	
V50	18	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1/8"	0.53	
V51	19	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1/8"	0.69	
V52	19	1.18	3/8"	0.18	0.31	-	0.91	1.18	1/8"	0.67	
V53	19	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	1/8"	0.79	



Series	Drawing	B	C	D	F	G	H	J	K	L	N
V50	20	3.50	0.57	0.13	1.06	0.20	0.12	1/8"	1/8"	1.14	1.34
V51	21	4.41	0.79	0.17	1.38	0.28	0.12	1/4"	1/8"	1.42	1.50
V52	22	6.91	1.02	0.22	1.83	0.18	0.16	3/8"	3/8"	2.05	0.51
V53	22	7.38	1.14	0.18	1.83	0.28	0.16	1/2"	1/2"	2.28	2.83
Series	Drawing	O	P	Q	R	S	T	U	V	Y	Z
V50	20	0.63	1/8"	0.13	0.24	0.08	0.51	0.71	1.30	1/8"	0.53
V51	21	0.83	1/4"	0.13	0.24	0.12	0.67	0.89	1.30	1/8"	0.69
V52	22	1.18	3/8"	0.18	0.31	-	0.91	1.18	1.77	1/8"	0.67
V53	22	1.10	1/2"	0.17	0.31	0.18	0.91	1.18	2.01	1/8"	0.79

IN-LINE VALVES V50 - 53 Series

3/2, 5/2, and 5/3 Solenoid and Air actuated 1/8" NPT to 1/2" NPT

V50 Series

Voltage codes and spare solenoid kits

Voltage	Code	Power Inrush/hold	Solenoid Kit Model
12 V d.c.	12A	2.5 W	V12958-A12
24 V d.c.	13A	2.5 W	V12958-A13
110/120 V a.c. 50/60 Hz	18A	3.7/3.1 VA	V12958-A18

V51...V53 Series

Voltage codes and spare solenoid kits

STANDARD (22 MM COIL INDUSTRIAL STANDARD)			
Voltage	Coil code	Power inrush/hold	Model
12 V d.c.	12J	2 W	54469-01
24 V d.c.	13J	2 W	54469-02
110/120 V 50/60 Hz	18J	4/2.5 VA	54469-03
220/240 V 50/60 Hz	19J	6/5 VA	54469-08

V50 Series

Replacement connectors

Description	Model
[0 to 240 V a.c./d.c.]	V10027-D00
[0 to 240 V a.c./d.c., 6 ft. molded cable]	V10013-D03
[12 to 24 Vac/Vdc w/indicator light]	V10012-D13
[120 Vac/Vdc w/indicator light]	V10012-D18

V51...V53 Series

Replacement connectors

Description	Model
Cable grip connector	54934-01
Cable grip connector with indicator light	
110/120 VAC/DC	54934-02
24 VAC/DC	54934-08
1/2" NPT conduit	54934-05
Molded 5-ft cable connector 0-220 VAC/DC	54934-21
Molded 5-ft cable connector with indicator light and surge suppression	
24 VAC/DC	54934-30
110 VAC/DC	54934-35

Models – Manifolds

Stations	Valve type	V50 model	Port size	V51 model	Port size	V52 model	Port size	V53 model	Port size
2	3/2	V50P302	1/8"	V51R302	1/4"	V52S302	3/8"	V53T302	1/2"
3	3/2	V50P303	1/8"	V51R303	1/4"	V52S303	3/8"	V53T303	1/2"
4	3/2	V50P304	1/8"	V51R304	1/4"	V52S304	3/8"	V53T304	1/2"
2	5/2	V50P502	1/8"	V51R502	1/4"	V52S502	3/8"	V53T502	1/2"
3	5/2	V50P503	1/8"	V51R503	1/4"	V52S503	3/8"	V53T503	1/2"
4	5/2	V50P504	1/8"	V51R504	1/4"	V52S504	3/8"	V53T504	1/2"

PROSPECTOR POPPET VALVES

1/2" Basic with 1/2" or 3/4" threaded ports

Durable, robust construction

1/2" ports (PTF threads)

Available in 2/2, 3/2 configurations

TECHNICAL DATA

Medium:

Filtered and lubricated or non-lubricated compressed air or vacuum.

Operation:

Poppet valve solenoid pilot actuated.

Mounting:

Through-holes in valve body and subbase.

Flow Characteristics:

Basic size Function Cv*

1/2" 2/2, 3/2 3.2 - 5.8

Operating Temperature:

-20°F to 120°F** [-29°C to 49°C]

**Consult Technical Service for use below 34°F (+2°C).

Materials:

Body: Aluminum alloy body, piston, poppets and subbase.

Operators: Zinc or aluminum solenoid pilot operators, stainless steel or steel, reinforced polyester, brass or polyurethane, acetal, copper wire.

Elastomers: Nitrile rubber seals. (Fluorocarbon seals are optional, contact Technical Services.)



Solenoid pilot operated spring return inline valves with non-locking overrides, 120V, 60 Hz, and cablegrip connector

Model 2/2 (2 way) Inline Valves	Solenoid	Basic Size	Port Size	Function	Flow Cv (l/min)	Operating Pressure (psig)	Pilot Pressure† (psig)
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A1014C-CY	Internal Pilot	1/2"	1/2"	NC	3.2 to 5.8 (3200 to 5800)	30 - 150	30 - 150
A1015C-CY	Internal Pilot	1/2"	3/4"	NC	3.2 to 5.8 (3200 to 5800)	30 - 150	30 - 150
3/2 (3 way) D1024C-CY	Internal Pilot	1/2"	1/2"	NC	3.2 to 5.8 (3200 to 5800)	30 - 150	30 - 150

Single air pilot operated spring return inline valves

Model 2/2 (2 way)	Basic Size	Port Size	Function	Flow Cv (l/min)	Operating Pressure (psig)	Pilot Pressure* (psig)
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A1014C-A1	1/2"	1/2"	NC	3.2 to 5.8 (3200 to 5800)	0 - 300	30 - 300
A1015C-A1	1/2"	3/4"	NC	3.2 to 5.8 (3200 to 5800)	0 - 300	30 - 300
3/2 (3 way) D1024C-A1	1/2"	1/2"	NC	3.2 to 5.8 (3200 to 5800)	0 - 300	30 - 300

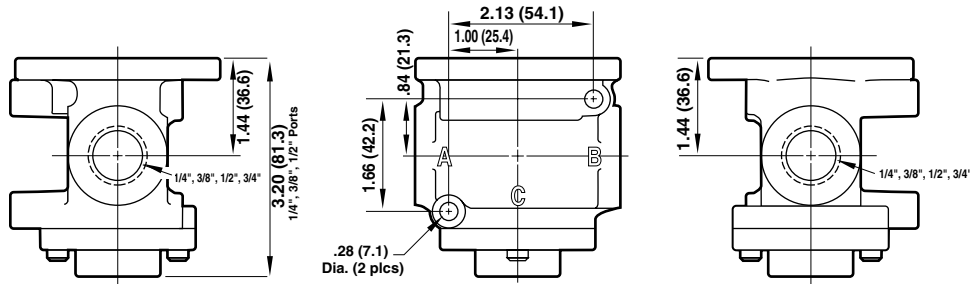


PROSPECTOR POPPET VALVES

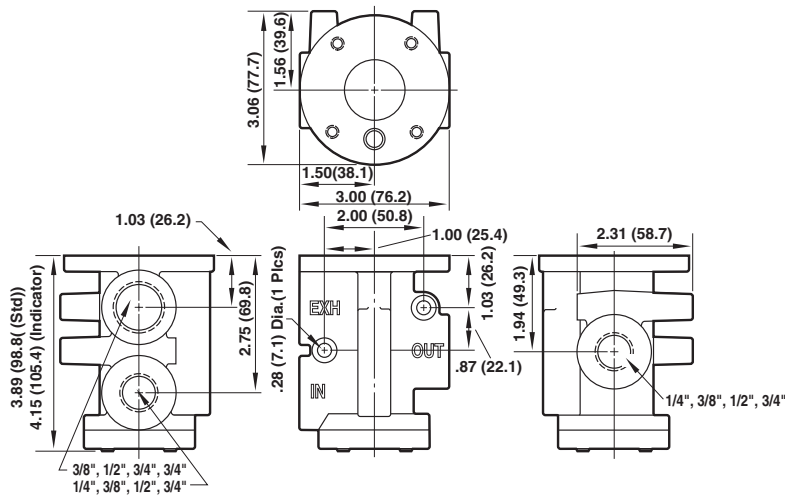
1/2" Basic with 1/2" or 3/4" threaded ports

Dimensions in inches (mm)

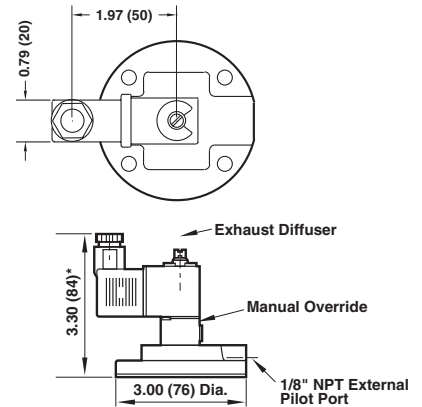
2-port/2-position 1/2" body (A101*C)



3-port/2-position 1/2" body (D1024C)



Valve body operator with cable grip



*Gasket 0.03 (0.8) thick included in dimensions

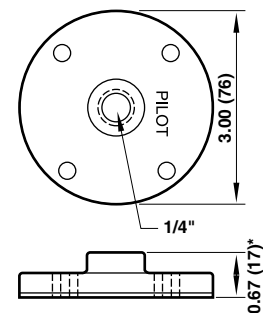
Solenoid Coils

Description	Part number
240V/60Hz-220V/50Hz, 7.5W	54452-07
120V/60Hz-110V/50Hz, 7.5W	54452-01
12VDC, 7.5W	54452-02
24VDC, 6W	54452-03

Replacement Connectors

Description	Part number
Cable grip connector	54934-01
Cable grip connector with indicator light	54934-02
110/120 VAC/DC	54934-08
24 VAC/DC	54934-05
1/2" NPT conduit	54934-21
Molded 5-ft cable connector 0-220 VAC/DC	54934-30
Molded 5-ft cable connector with indicator light and surge suppression	54934-35
24 VAC/DC	54934-30
110 VAC/DC	54934-35

A1 Air Pilot Operator



Service – Quality – Delivery

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NORGREN
Express

VAL-23

NUGGET 200 SPOOL VALVES

1/4", 3/8", or 1/2" Ports,

Manual and Mechanical Actuated Valves

Specially coated glandless spool and sleeve for extremely long life

Available with integral flow regulators on ISO #1 and #2 sizes

Low power solenoids and manual override as standard

Wide range of sub-bases and accessories

TECHNICAL DATA

Medium:

Compressed air, 40 µm filtered, lubricated or non-lubricated

Operation:

Glandless spool valve, solenoid pilot or air pilot actuated

Maximum Pressure:

145 psig (10 bar) solenoid pilot actuated valves with internal pilot supply

232 psig (16 bar) solenoid pilot actuated valves with external pilot supply

232 psig (16 bar) air pilot actuated valves

Ambient temperature:

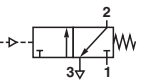
5°F* to 122°F (-15°C to 50°C) solenoid pilot actuated valves

5°F* to 176°F (-15°C to 80°C) air pilot actuated valves

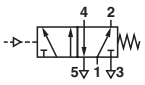
*Consult our Technical Service for use below 36°F (2°C)



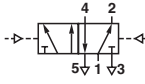
Models – 3/2 Air/spring return

Model No.	Description	Type	Flow Cv (l/min)	Port size	Pilot pressure psig	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
										
K41DA00KS1KA2	Air/spring	3/2	1.6 (1600)	1/4"	35 - 150	1/4" NPT	3/8"	C24250628	C24470628	MS002A
K41EA00KS1KA2	Air/spring	3/2	1.6 (1600)	3/8"	35 - 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A

Models – 5/2 Air/spring return

Model No.	Description	Type	Flow Cv (l/min)	Port size	Pilot pressure psig	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
										
K71DA00KS6KA2	Air/spring	5/2	1.6 (1600)	1/4"	35 - 150	1/4" NPT	3/8"	C24250628	C24470628	MS002A
K71EA00KS6KA2	Air/spring	5/2	1.6 (1600)	3/8"	35 - 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A

Models – 5/2 Air/air return

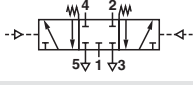
Model No.	Description	Type	Flow Cv (l/min)	Port size	Pilot pressure psig	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
										
K71DA00KA2KA2	Air/Air	5/2	1.6 (1600)	1/4"	15 - 150	1/4" NPT	3/8"	C24250628	C24470628	MS002A
K71EA00KA2KA2	Air/Air	5/2	1.6 (1600)	3/8"	15 - 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A



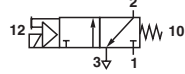
Nugget 200 Spool Valves

Manual and Mechanical Actuated Valves

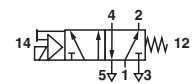
Models – 5/3 Air/air return

Model No.	Description	Type	Port size	Pilot pressure psig	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
									
K81DA00KACKAC	Air/Air	5/3	1/4"	45 - 150	1/4" NPT	3/8"	C24250628	C24470628	MS002A
K81EA00KACKAC	Air/Air	5/3	3/8"	45 - 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A

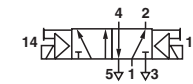
Models – 3/2 Solenoid/Spring return

Model No.	Description	Type	Flow Cv (l/min)	Port size	Pilot pressure psig	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
										
K41DA00KS1KV2	sol/spring 120 Vac, Cable Grip, lock	3/2	1.6 (1600)	1/4"	-10" Hg to 150	1/4" NPT	3/8"	C24250628	C24470628	MS002A
K41EA00KS1KV2	sol/spring 120 Vac, Cable Grip, lock	3/2	1.6 (1600)	3/8"	-10" Hg to 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A
K41EA00KS1KV21W2	sol/spring 24 Vdc, Cable Grip, lock	3/2	1.6 (1600)	3/8"	-10" Hg to 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A

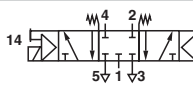
Models – 5/2 Solenoid/spring return

Model No.	Description	Type	Flow Cv (l/min)	Port size	Pilot pressure psig	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
										
K71DA00KS6K32	sol/spring 120 Vac, 1/2" conduit, lock	5/2	1.6 (1600)	1/4"	-10" Hg to 150	1/4" NPT	3/8"	C24250628	C24470628	MS002A
K71DA00KS6KV2	sol/spring 120 Vac, Cable Grip, lock	5/2	1.6 (1600)	1/4"	-10" Hg to 150	1/4" NPT	3/8"	C24250628	C24470628	MS002A
K71EA00KS6K32	sol/spring 120 Vac, 1/2" conduit, lock	5/2	1.6 (1600)	3/8"	-10" Hg to 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A
K71EA00KS6KV2	sol/spring 120 Vac, Cable Grip, lock	5/2	1.6 (1600)	3/8"	-10" Hg to 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A
K71EA00KS6KV21W2	sol/spring 24 Vdc, Cable Grip, lock	5/2	1.6 (1600)	3/8"	-10" Hg to 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A
K71FA00KS6KV2	sol/spring 120 Vac, Cable Grip, lock	5/2	1.6 (1600)	1/2"	-10" Hg to 150	1/2" NPT	3/8"	C24250748	C24470748	MS004A

Models – 5/2 Solenoid/solenoid return

Model No.	Description	Type	Flow Cv (l/min)	Port size	Pilot pressure psig	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
										
K71EA00KV2KV2	sol/sol 120 Vac, Cable Grip, lock	5/2	1.6 (1600)	3/8"	-10" Hg to 150	3/8" NPT	3/8"	C24250638	C24470638	MS003A

Models – 5/3 Solenoid/solenoid return

Model No.	Description	Type	Flow Cv (l/min)	Port size	Pilot pressure psig	Thread	Tube Size	Straight Fitting	90° swivel elbow fitting	Muffler
										
K81DA00KV0KV0	sol/sol 120 Vac, Cable Grip, lock, APB	5/3	1.6 (1600)	1/4"	-10" Hg to 150	1/4" NPT	3/8"	C24250628	C24470628	MS002A

Solenoid Coils

Description	Part number
240V/60Hz-220V/50Hz, 7.5W	54452-07
120V/60Hz-110V/50Hz, 7.5W	54452-01
12VDC, 7.5W	54452-02
24VDC, 6W	54452-03

Replacement Connectors

Description	Part number
Cable grip connector	54934-01
Cable grip connector with indicator light	
110/120 VAC/DC	54934-02
24 VAC/DC	54934-08
1/2" NPT conduit	54934-05
Molded 5-ft cable connector 0-220 VAC/DC	54934-21
Molded 5-ft cable connector with indicator light and surge suppression	
24 VAC/DC	54934-30
110 VAC/DC	54934-35

Service – Quality – Delivery

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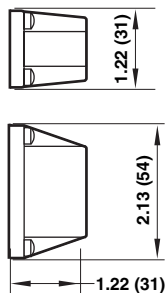
VAL-25

Nugget 200 Spool Valves

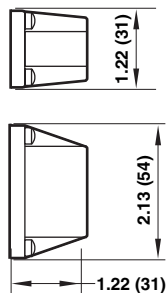
Manual and Mechanical Actuated Valves

Dimensions in inches (mm)

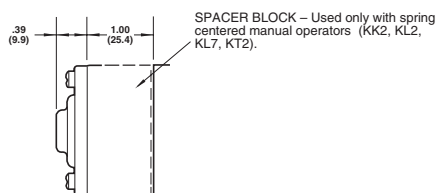
KS1 Spring Return & End Cap



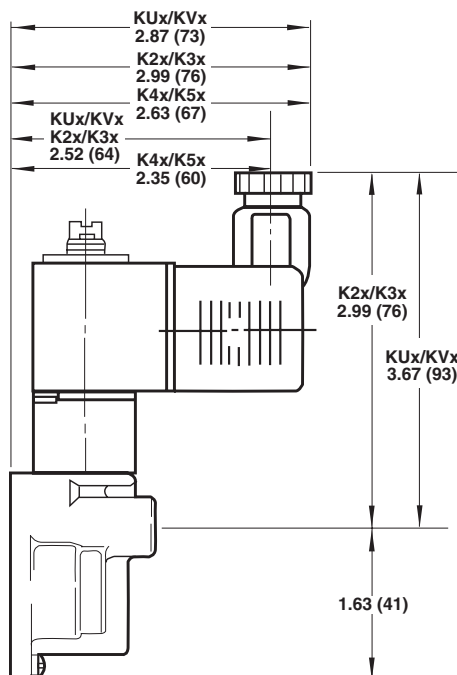
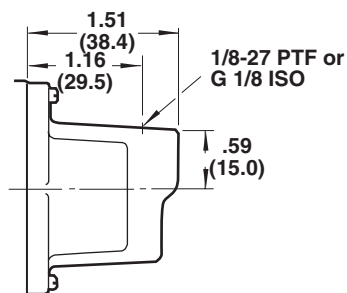
KS6 Spring Return



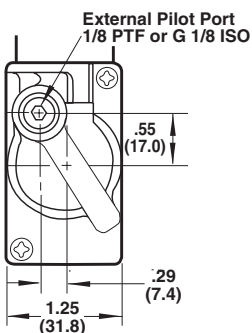
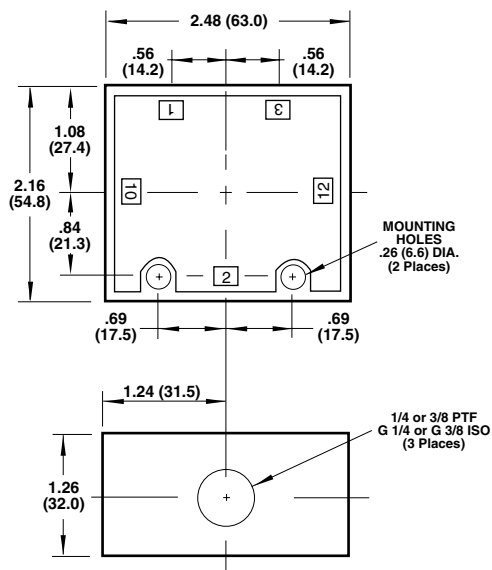
KC0 End Cap



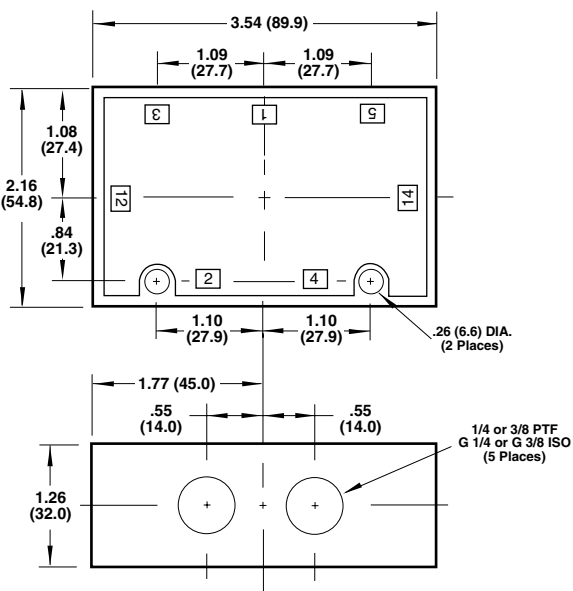
KA2



3-WAY - 1/4" & 3/8" PORTS K41

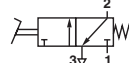
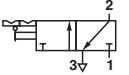
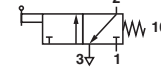
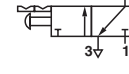
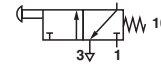
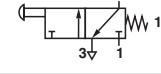


4-WAY - 1/4" & 3/8" PORTS K71 or K81

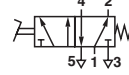
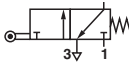


Models – 3/2 Manual Valves

Accessories

Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Pilot pressure PSIG	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
 	Foot pedal/spring	1/4"	1.6 (1600)	-10" Hg to 150	1	1/4"	3/8"	C24250628	C24470628	MS002A
 	lever/lever Detent	1/4"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A
 	lever/spring	1/4"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A
 	Palm button/Detent, black	1/4"	1.6 (1600)	-10" Hg to 150	3	1/4"	3/8"	C24250628	C24470628	MS002A
 	Palm button/spring, black	1/4"	1.6 (1600)	-10" Hg to 150	3	1/4"	3/8"	C24250628	C24470628	MS002A
 	Palm Button/spring, red	1/4"	1.6 (1600)	-10" Hg to 150	3	1/4"	3/8"	C24250628	C24470628	MS002A

Models – 3/2 Mechanical Valves

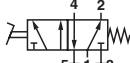
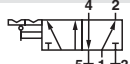
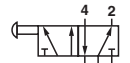
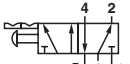
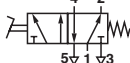
Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Pilot pressure PSIG	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
 	tappet/spring	1/4"	1.6 (1600)	-10" Hg to 150	5	1/4"	3/8"	C24250628	C24470628	MS002A
 	Lever roller/spring	1/4"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A

Nugget 200 Spool Valves

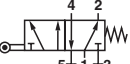
Manual and Mechanical Actuated Valves

Models – 5/2 Manual Valves

Accessories

Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Pilot pressure PSIG	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
										
K71DA00KS6KF0	foot pedal/spring	1/4"	1.6 (1600)	-10" Hg to 150	1	1/4"	3/8"	C24250628	C24470628	MS002A
										
K71DA00KC0KL1	lever/lever Detent	1/4"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A
										
K71DA00KS1KL0	lever/spring	1/4"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A
										
K71DA00KC0KB0	Palm button, black	1/4"	1.6 (1600)	-10" Hg to 150	3	1/4"	3/8"	C24250628	C24470628	MS002A
										
K71DA00KC0KB31P2	Palm button, Detent, black	1/4"	1.6 (1600)	-10" Hg to 150	3	1/4"	3/8"	C24250628	C24470628	MS002A
										
K71DA00KS1KB01P2	Palm Button/spring, panel nut, black	1/4"	1.6 (1600)	-10" Hg to 150"	3	1/4"	3/8"	C24250628	C24470628	MS002A
										
K71EA00KS6KF0	foot pedal/spring	3/8"	1.6 (1600)	-10" Hg to 150	1	3/8"	3/8"	C24250638	C24470638	MS003A
										
K71EA00KC0KL1	lever/lever Detent	3/8"	1.6 (1600)	-10" Hg to 150	2	3/8"	3/8"	C24250638	C24470638	MS003A

Models – 5/2 Mechanical Valves

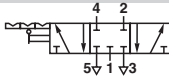
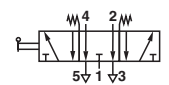
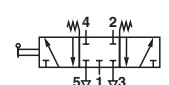
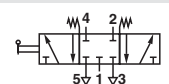
Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Pilot pressure PSIG	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
										
K71DA00KS6KR2	Verify ISO Symbol lever roller/spring	1/4"	1.6 (1600)	-10" Hg to 150	4	1/4"	3/8"	C24250628	C24470628	MS002A

Nugget 200 Spool Valves

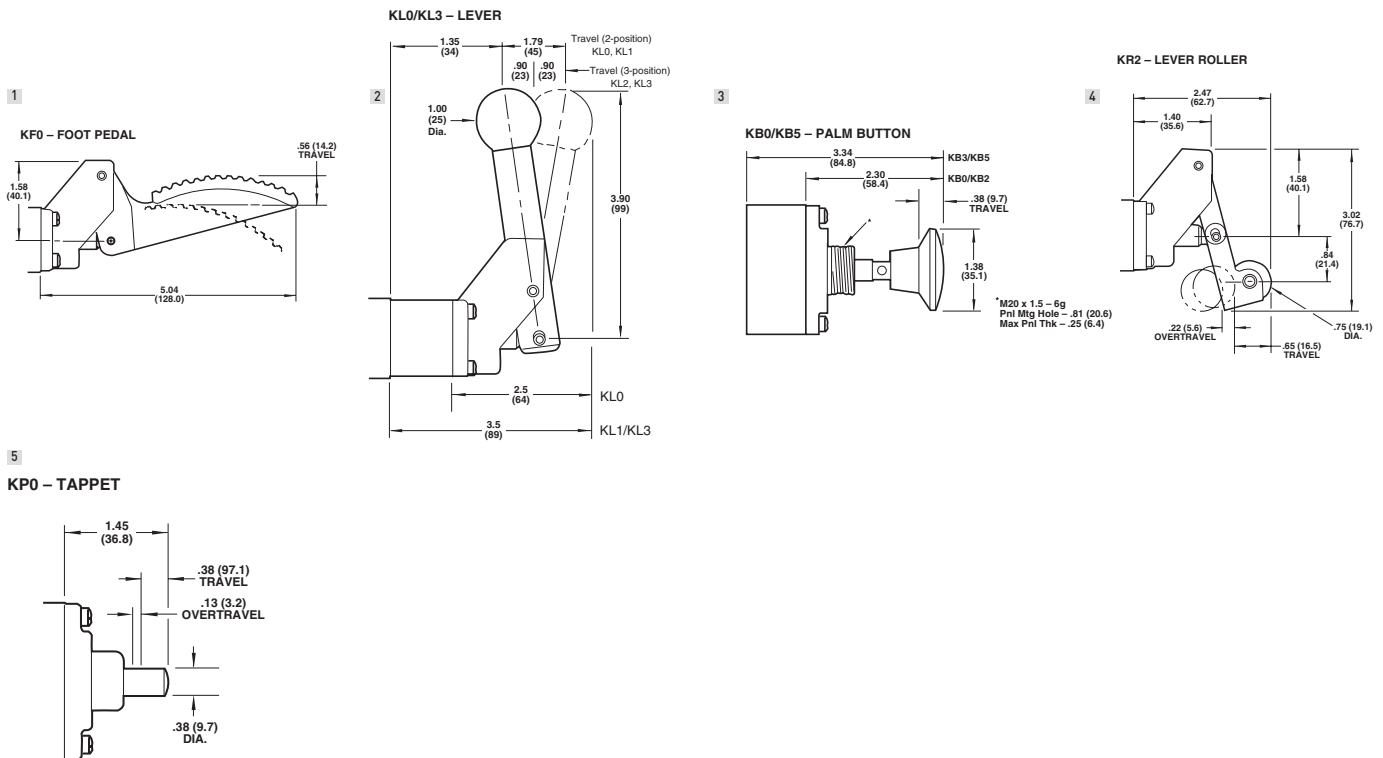
Manual and Mechanical Actuated Valves

Models – 5/3 Manual Valves

Accessories

Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Pilot pressure PSIG	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
										
K81DA00KC0KL3	lever/lever/lever APB, Detent	1/4"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A
										
K81DA06KC0KL2	lever/lever/lever COE, SC	1/4"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A
										
K81DA00KC0KL2	lever/lever/lever, APB, SC	1/4"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A
										
K81EA00KC0KL2	lever/lever/lever, APB, SC	3/8"	1.6 (1600)	-10" Hg to 150	2	1/4"	3/8"	C24250628	C24470628	MS002A

Dimensions in inches (mm)



Service – Quality – Delivery

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VAL-29

VALVES

2

IN-LINE VALVES Super X

Manual and Mechanical actuated spool valve –
3/2, 5/2 and 5/3, 1/8", 1/4"

Wide range of operators

Suitable for multi-directional flow and dual supply applications

High flow capacity

Lightweight corrosion resistant materials

TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated and non-lubricated

Operating pressure:

Maximum 150 psig (10 bar)

Ambient temperature:

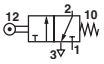
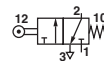
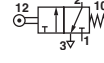
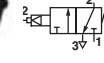
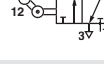
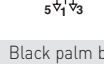
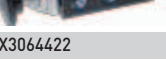
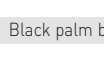
32° F to 158° F [°C to +70°C]

Consult our Technical Service for use below 36°F (+2°C).



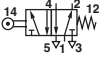
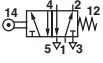
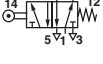
Models – 3/2 Mechanical Valves

Accessories

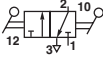
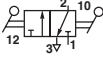
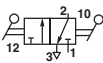
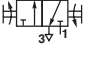
Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
03029322	Roller lever (heavy duty)/Spring	1/8"	0.34 (335)	A, 10	1/8"	1/4"	C24250418	C24470418	MS001A
									
03040222	Roller/Spring	1/8"	0.34 (335)	A, 2	1/8"	1/4"	C24250418	C24470418	MS001A
									
03060222	Roller/Spring	1/4"	0.98 (965)	B, 6	1/4"	3/8"	C24250628	C24470628	MS002A
									
03041122	Roller lever/Spring	1/8"	0.34 (335)	A, 4	1/8"	1/4"	C24250418	C24470418	MS001A
									
03061122	Roller lever/Spring	1/4"	0.98 (965)	B, 9	1/4"	3/8"	C24250628	C24470628	MS002A
									
03043222	Antenna/Spring	1/8"	0.34 (335)	A, 8	1/8"	1/4"	C24250418	C24470418	MS001A
									
03041022	One-way trip	1/8"	0.34 (335)	A, 33	1/8"	1/4"	C24250418	C24470418	MS001A
									
X3044422	Black palm button	1/8"	0.34 (335)	A, 12	1/8"	1/4"	C24250418	C24470418	MS001A
									
X3064422	Black palm button	1/8"	0.34 (335)	A, 12	1/8"	1/4"	C24250418	C24470418	MS001A



Models – 5/2 Mechanical Valves

Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Drawing no.	Accessories				
					Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
X3039322	Roller lever (heavy duty)/Spring	1/8"	0.34 [335]	E, 10	1/8"	1/4"	C24250418	C24470418	MS001A
									
X3045122	Roller lever/Spring	1/8"	0.34 [335]	E, 4	1/8"	1/4"	C24250418	C24470418	MS001A
X3065122	Roller lever/Spring	1/4"	0.98 [965]	F, 9	1/4"	3/8"	C24250628	C24470628	MS002A
									
X3044222	Roller/Spring	1/8"	0.34 [335]	E, 2	1/8"	1/4"	C24250418	C24470418	MS001A
X3064222	Roller/Spring	1/4"	0.98 [965]	F, 6	1/4"	3/8"	C24250628	C24470628	MS002A
									
X3047222	Antenna/Spring	1/8"	0.34 [335]	E, 8	1/8"	1/4"	C24250418	C24470418	MS001A

Models – 3/2 Manual Valves

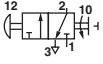
Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Drawing no.	Accessories				
					Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
03029622	Lever/lever	1/8"	0.34 [335]	–	1/8"	1/4"	C24250418	C24470418	MS001A
									
03040322	Toggle/toggle	1/8"	0.34 [335]	A, 22	1/8"	1/4"	C24250418	C24470418	MS001A
									
03043722	Lever/lever	1/8"	0.34 [335]	A, 23	1/8"	1/4"	C24250418	C24470418	MS001A
03063722	Lever/lever	1/4"	0.98 [965]	B, 31	1/4"	3/8"	C24250628	C24470628	MS002A
									
03029822	Rotary knob/rotary knob	1/8"	0.34 [335]	A, 26	1/8"	1/4"	C24250418	C24470418	MS001A

IN-LINE VALVES Super X

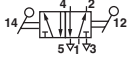
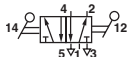
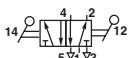
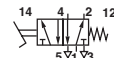
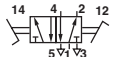
Manual and Mechanical actuated spool valve – 3/2, 5/2 and 5/3, 1/8", 1/4"

Models – 3/2 Manual Valves

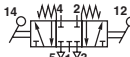
Accessories

Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
03029922	Emergency stop/twist ring	1/8"	0.34 [335]	A, 16	1/8"	1/4"	C24250418	C24470418	MS001A
									
03040422	Black – Button/spring	1/8"	0.34 [335]	A, 12	1/8"	1/4"	C24250418	C24470418	MS001A
									
03041422	Black – Button (shrouded)/spring	1/8"	0.34 [335]	A, 13	1/8"	1/4"	C24250418	C24470418	MS001A
									
03042522	Knob/knob	1/8"	0.34 [335]	A, 21	1/8"	1/4"	C24250418	C24470418	MS001A
03062522	Knob/knob	1/4"	0.98 [965]	B, 20	1/4"	3/8"	C24250628	C24470628	MS002A
									
03048122	Pedal/spring	1/8"	0.34 [335]	29	1/8"	1/4"	C24250418	C24470418	MS001A
03068122	Pedal/spring	1/4"	0.98 [965]	29	1/4"	3/8"	C24250628	C24470628	MS002A

Models – 5/2 Manual Valves

Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
X3044322	Toggle/toggle	1/8"	0.34 [335]	E, 24	1/8"	1/4"	C24250418	C24470418	MS001A
									
X3047722	Lever/lever	1/8"	0.34 [335]	E, 23	1/8"	1/4"	C24250418	C24470418	MS001A
X3067722	Lever/lever	1/4"	0.98 [965]	F, 31	1/4"	3/8"	C24250628	C24470628	MS002A
									
X3029822	Rotary knob/rotary knob	1/8"	0.34 [335]	E, 27	1/8"	1/4"	C24250418	C24470418	MS001A
									
X3046522	Knob, push/knob, pull	1/8"	0.34 [335]	E, 26	1/8"	1/4"	C24250418	C24470418	MS001A
X3066522	Knob, push/knob, pull	1/4"	0.98 [965]	F, 20	1/4"	3/8"	C24250628	C24470628	MS002A
									
X3048222	Pedal/spring	1/8"	0.34 [335]	29	1/8"	1/4"	C24250418	C24470418	MS001A
X3068222	Pedal/spring	1/4"	0.98 [965]	29	1/4"	3/8"	C24250628	C24470628	MS002A
									
X3048422	Pedal/pedal	1/8"	0.34 [335]	29	1/8"	1/4"	C24250418	C24470418	MS001A
X3068422	Pedal/pedal	1/4"	0.98 [965]	29	1/4"	3/8"	C24250628	C24470628	MS002A

Models – 5/3 Manual Valves

Model No.	Actuation	Port size NPT	Flow Cv (l/min)	Drawing no.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow	Muffler
									
X3343822	Lever/spring/lever – APB	1/8"	0.34 [335]	J, 30	1/8"	1/4"	C24250418	C24470418	MS001A
X3363822	Lever/spring/lever – APB	1/4"	0.98 [965]	J, 31	1/4"	3/8"	C24250628	C24470628	MS002A

APB = All Ports Blocked COE = Centre Open Exhaust

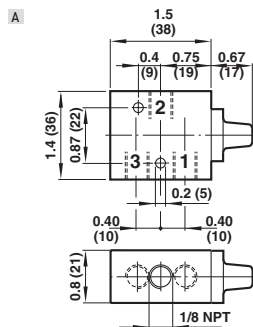
IN-LINE VALVES Super X

Manual and Mechanical actuated spool valve – 3/2, 5/2 and 5/3, 1/8", 1/4"

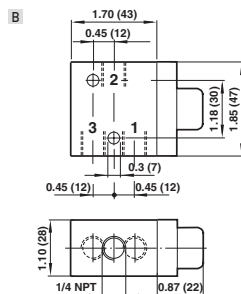
Dimensions in inches (mm)

Valve bodies

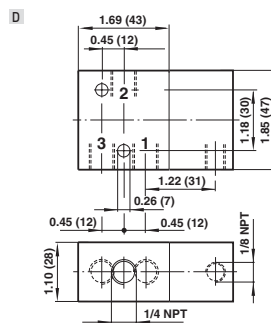
1/8, 3/2 Spring return, basic body



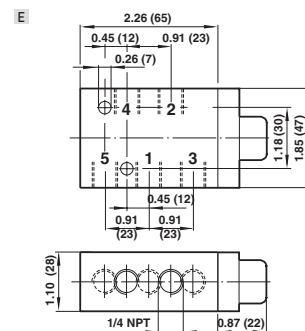
1/4, 3/2 Spring return, basic body



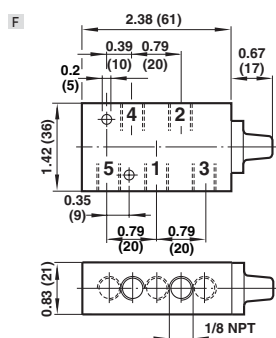
1/4, 3/2 Pilot return, basic body



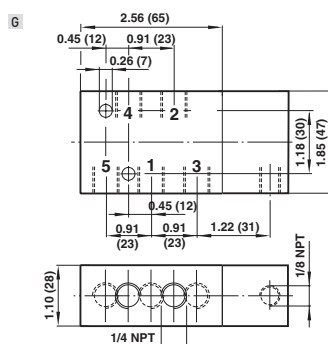
1/8, 5/2 Spring return, basic body



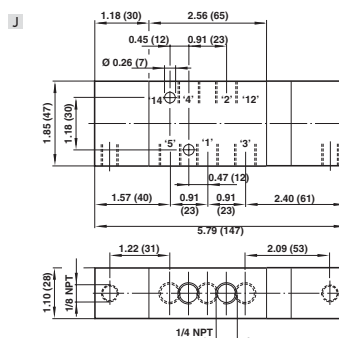
1/4, 5/2 Spring return, basic body



1/8, 5/2 Pilot return, basic body



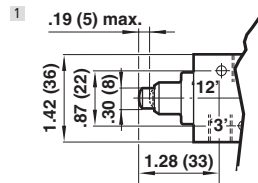
1/4, 5/3 Spring return, basic body



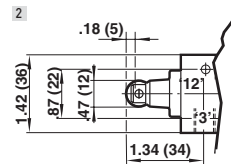
Dimensions in inches (mm)

Mechanical valve actuators

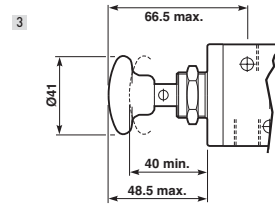
Plunger – 1/8 valves



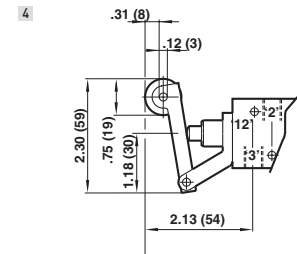
Roller – 1/8 valves



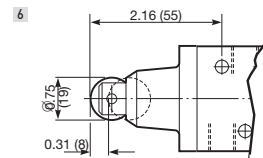
Plunger – G1/4 valves



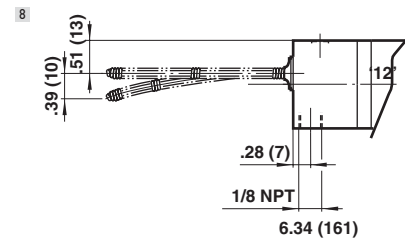
Roller lever – 1/8 valves



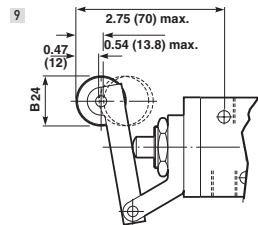
Roller – 1/4 valves



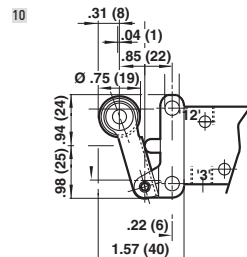
Antenna – 1/8 valves



Roller lever – 1/4 valves

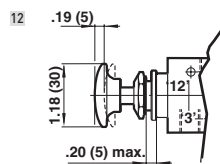


Heavy duty roller lever – 1/8 valves

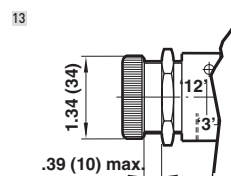


Manual valve actuators

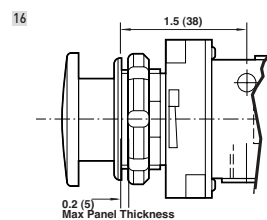
Button – G1/8 valves



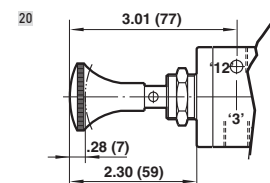
Button (shrouded) – 1/8 valves



Emergency stop – 1/8 valves



Knob – G1/4 valves



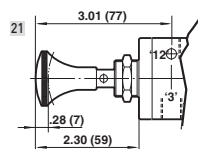
IN-LINE VALVES Super X

Manual and Mechanical actuated spool valve – 3/2, 5/2 and 5/3, 1/8", 1/4"

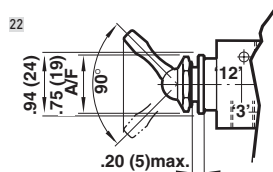
Dimensions in inches (mm)

Manual valve actuators

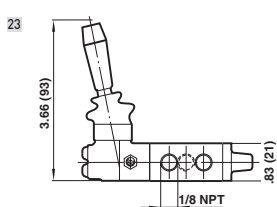
Knob – 1/8 valves



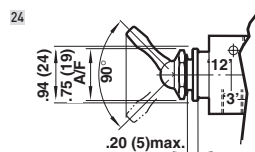
Lever operated spring return valve – 1/8 valves



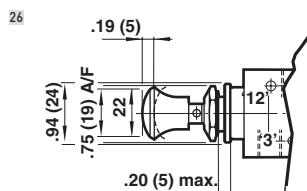
Lever operated spring return valve – 1/8 valves



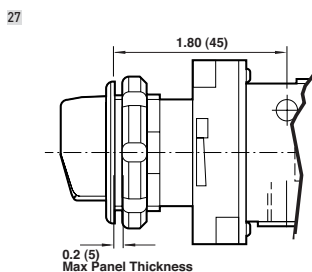
Switch – G1/8 valves



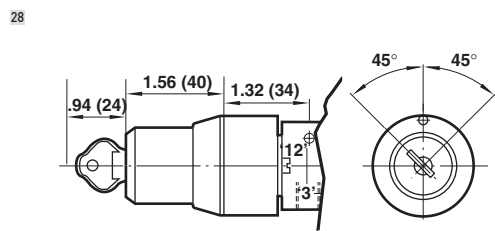
Knob operated knob return valve – G1/8 valves



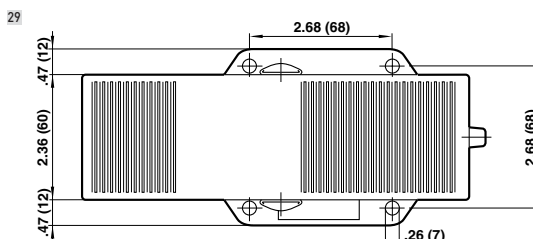
Rotary knob – 1/8 valves



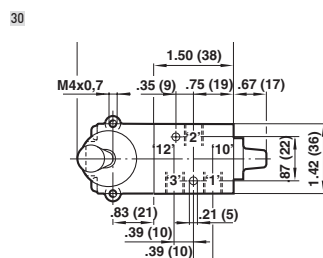
Key – 1/8 valves



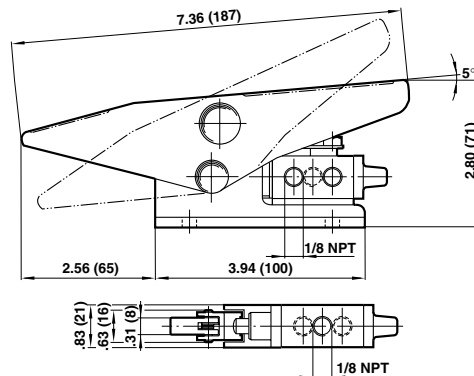
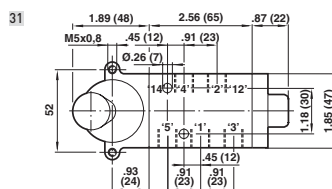
Pedal/treadle – 1/8-1/4 valves



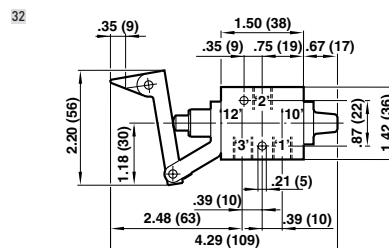
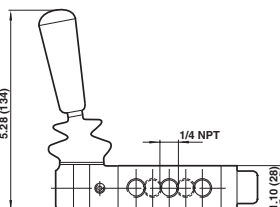
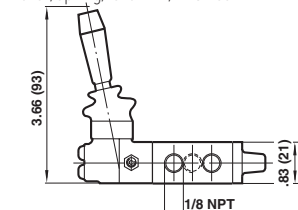
Lever – 1/8 valves



Lever – 1/4 valves



Lever/spring/lever – 1/4 valves



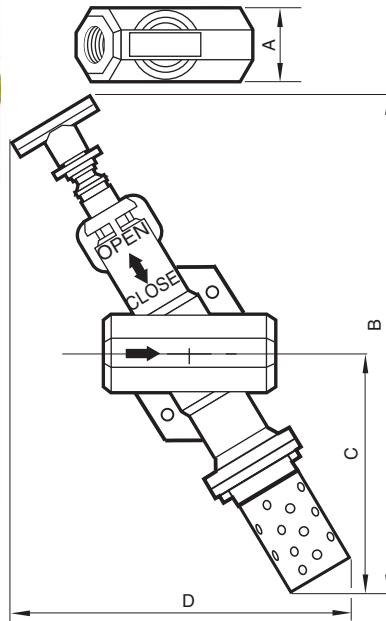
Operating force: 12 N [X3 3638 02 & X3 3678 02], 15 N [X3 3637 02 & X3 3677 02]

Panel hole: Ø 31 mm

Panel thickness: 8 mm maximum

INLINE LOCKOUT VALVES

1/2" and 1" Basic



3-way, manually operated, full flow lockout valves can be locked in the closed position with a customer supplied padlock.

Helps you comply to OSHA regulations, as they relate to OSHA regulation 29 CFR Part 1910, standard for lockout/tagout procedures.

TECHNICAL DATA

Fluid:

Compressed air

Maximum Pressure:

300 psig (20.4 bar)

Temperature Range:

-20° to 175°F* [-29° to 79°C]

*With a dew point of supply air less than air temperature below 35°F [2°C].

Maximum Diameter of Lock Shackle:

5/16" (8mm)

Materials

Valve Body: Aluminum

Muffler Base: Zinc

Spool, T-Handle

Spring Detent: Stainless Steel

Elastomers

Nitrile and Polyurethane

Inline Lockout Mufflers -Dimensions in inches (mm)

Port size	A	B	C	D
1/2" basic	1.87 [45]	11.78 [299]	5.35 [136]	7.97 [202]
1" basic	2.26 [57]	15.72 [399]	7.78 [198]	10.46 [266]

Inline Lockout Mufflers

Model No. with muffler Black handle	Model No. with muffler Red handle	Basic size	Port size	Cv Factor In-Out Ports	Cv Factor Out-Exhaust Ports
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C0023B	-	1/2"	3/8"	6.6	6.6
C0023C	CR021C1M2	1/2"	1/2"	9.3	7.9
C0023D	CR021D1M2	1/2"	3/4"	12.6	8.6
C0024B	CR022B1M1	1"	1"	16.2	9.2
C0024C	-	1"	1-1/4"	25.3	8.9
C0024D	-	1"	1-1/2"	22.4	10.0



Service – Quality – Delivery

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VAL-37

“If you need to optimise cost, reduce your time to market or improve your system performance we can help”

Customers drive our business relationships

A powerful and strong brand needs foundations as strong as possible. And that's why we've established clear values at the heart of our brand.

Our starting point is the needs and expectations of our customers. As pioneers we innovate continuously and explore new options with creativity. We strive to excel in all we do, aiming for the highest quality, particularly in activities with the greatest value potential. We encourage everyone to contribute because every employee counts. And we act with integrity, testing every proposed action to see whether it is proper and reflects standards we can be proud of.



THE BOTTOM LINE since 1927

‘Customer needs and expectations’

We don't focus on any solution at any cost; we focus on the right solution at the right cost. Thousands of customers with long standing relationships value the partnership they have with Norgren. They value our technical expertise, our heritage, our reputation and our commitment. No-compromise manufacturing techniques ensures the customer receives a reliable product or solution produced to the highest quality standards.

Our diverse range of solutions for a wide variety of customers, support thousands of projects world wide - visit norgren.com



Pressure sensing and control

A comprehensive range of Pressure Switches, providing a range of different options for converting pressure changes into an electrical signal. The range includes electro-mechanical and electronic switches suitable for pneumatic and hydraulic applications. Catalog pages show comprehensive data.



Fast Find Guide

PROPORTIONAL PRESSURE CONTROL VALVE

VP50
1/4" NPT
200 PSIG (14 ba)



Page PSC-3

VP51
Programmable



Page PSC-4

ELECTRONIC PRESSURE SWITCHES

33D
Pneumatic/Allfluid
200 PSIG (14 bar)



Page PSC-5

ELECTRO-MECHANICAL PRESSURE SWITCHES

18D Pneumatic
Vac to 435 PSIG



Page PSC-6

18D Hydraulic
70 to 6100 PSIG



Page PSC-7

PROPORTIONAL PRESSURE CONTROL VALVE

VP50 Series

1/4" NPT



Closed loop air pilot operated proportional pressure control valve

Adjustable for a wide range of applications

Fast response

Low power consumption

High flow

TECHNICAL DATA

Medium:

Compressed air filtered to 50 µm, non-lubricated

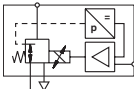
Supply pressure:

200 psig (14 bar) max.

Ambient temperature:

-4 to 122°F (-20° to 50°C)

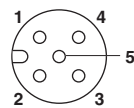
Models

Model No.	Actuation	Port size NPT	Flow SCFM (NI/min)	Operating pressure (bar)	Control signal	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow
									
VP5010PK111H00		1/4"	50 (1400)	0 to 145 (10)	0..10 V	1/4"	3/8"	C24250628	C24470628
VP5010PK411H00		1/4"	50 (1400)	0 to 145 (10)	4..20 mA	1/4"	3/8"	C24250628	C24470628
VP5006PK111H00		1/4"	50 (1400)	0 to 90 (6)	0..10 V	1/4"	3/8"	C24250628	C24470628
VP5006PK411H00		1/4"	50 (1400)	0 to 90 (6)	4..20 mA	1/4"	3/8"	C24250628	C24470628
VP5002PK111H00		1/4"	50 (1400)	0 to 30 (2)	0..10 V	1/4"	3/8"	C24250628	C24470628
VP5002PK411H00		1/4"	50 (1400)	0 to 30 (2)	4..20 mA	1/4"	3/8"	C24250628	C24470628

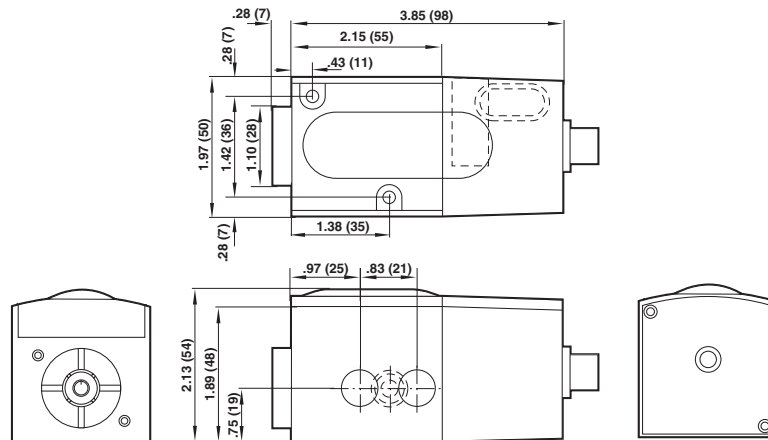
Electrical Information

Electromagnetic compatibility	CE marked: conforms to EC requirements EN 50081-2 (1994) and EN 50082-2 (1995)
Electrical input signal	4 to 20 mA or 0 to 10 V factory set
Electrical power input	24 V d.c. ±25% (power consumption < 1 W)
Output pressure feedback signal	0 ... 10 V full range
Connections	DIN 43650 or Brad Harrison connection for feedback output

Pin configuration



1	+24 V d.c. supply
2	0 to 10 full range
3	Control signal (+ve)
4	Common (DC supply, signal and feedback return)
5	Chassis (earth)



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PSC-3

PROPORTIONAL PRESSURE CONTROL VALVE

VP51 Series – Programmable

1/4" NPT

Closed loop air pilot digital proportional control valve

Fully programmable with on-board diagnostics

Ability to set up offline

Password protection option at first level functionality

Instant LED warning functions

Pressure output display; no gauge necessary

TECHNICAL DATA

Medium:

Compressed air, filtered to 50 µm, non-lubricated

Output pressure:

User adjustable up to 10 bar

Supply pressure:

200 psig (14 bar)

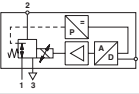
Ambient temperature:

23° to 120°F (-5° to 50°C)

Consult our Technical Service for use below 36°F (+2°C).



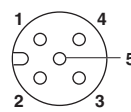
Models

Model No.	Actuation	Port size NPT	Flow SCFM (NL/min)	Operating pressure PSIG (bar)	Control signal	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow
VP5110PK411H00									
									
VP5110PK411H00		1/4"	50 (1400)	0 to 145 (10)	0..10 V	1/4"	3/8"	C24250628	C24470628
VP5110PK111H00		1/4"	50 (1400)	0 to 145 (10)	4..20 mA	1/4"	3/8"	C24250628	C24470628

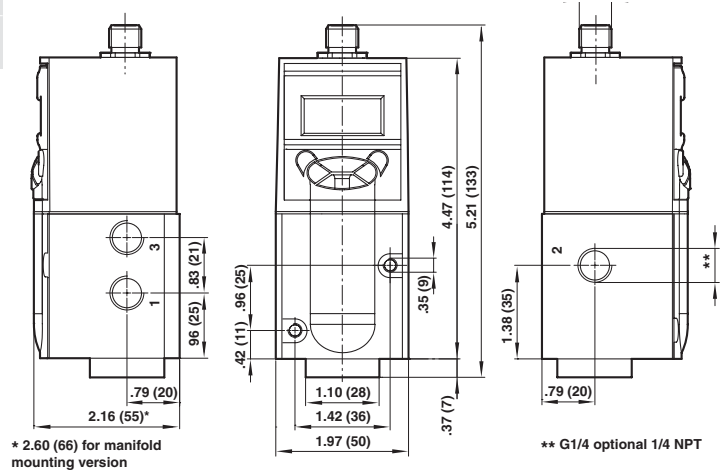
Electrical Information

Electromagnetic compatibility	CE marked: conforms to EC requirements EN 50081-2 (1994) and EN 50082-2 (1995)
Electrical input signal	4 to 20 mA or 0 to 10 V factory set
Electrical power input	24 V d.c. ±25% (power consumption < 1 W)
Output pressure feedback signal	0 ... 10 V full range or user-configurable switched output
Connections	DIN 43650 or Brad Harrison connection for feedback output

Pin configuration



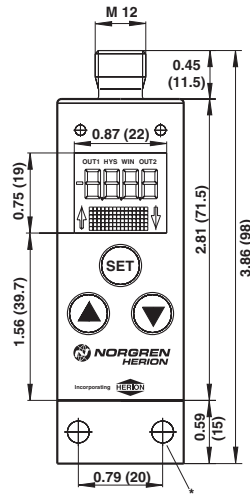
1	+24 V d.c. supply
2	Monitor output
3	Control signal (+ve)
4	Common (DC supply, signal and feedback return)
5	Chassis (earth)



ELECTRONIC PRESSURE SWITCH

33D Series Pneumatic and Allfluid

Vac to 9100 psi



Electrical parameters

Electrical connection:	M12 x 1
Power supply:	10 ... 32 V d.c. (polarity safe) digital models 15 ... 32 V d.c. (polarity safe) analog models

Electrical connection M12 x 1

PIN-No.	Signal	Cable color
1	Supply voltage	Brown
2	Out 2 (PNP) / analog 4 ... 20 mA	White
3	Common	Blue
4	Out 1 (PNP)	Black
5	Earth ground	Grey



Real time pressure display with backlight

Compact and robust design

Easy programming of set points and additional functions

Transistor output signals 1 x PNP,

2 x PNP, or 1 x PNP + 4 to 20 mA

Electronic lock

Switching status indicated by LED

Standard M12x1 electrical connection (IP 65)

For pneumatic, all fluid and hydraulic applications

TECHNICAL DATA

Medium:

Filtered compressed air, lubricated or unlubricated, neutral gases

Display:

LCD 4 digits illuminated, pressure unit programmable for bar, psi, mpa

Mounting position:

Optional

Operating pressure:

Vac to 230 psi (pneumatic)

0 to 9100 psi (hydraulic/allfluid)

Ambient temperature:

14°F to 140°F (-10°C to 60°C)

Consult our Technical Service for use below 35°F (+2°C).

Models

Model No.	Port size NPT	Measuring range (psi) (relative pressure)	Max overpressure (psi)	Output signal
0863214	1/4"	Vac - 230	435	1 x PNP
0863224	1/4"	Vac - 230	435	2 x PNP



Accessories

Electrical Connector M12 x 1	
Straight x 2 m long	90° x 2 m long
	
8112193	8112194
8112193	8112194

PNEUMATIC PRESSURE SWITCHES

Diaphragm type

Vac - 435 psi

Adjustable setpoint

Gold-plated contacts

Vibration resistant to 15 g

Microswitch approved by UL and CSA

TECHNICAL DATA

Medium

Neutral, gaseous and liquid fluids

Operating pressure

Vac to 435 psi

Over pressure

1150 psi

Ambient temperature

-14°F to 175°F (-10°C to +80°C)

Viscosity

Up to 1000 mm²/s (±450 ssu).

Fluid temperature

-14°F to 175°F (-10°C to +80°C)

Repeatability

±3%, for vacuum ±4%

Electrical connection

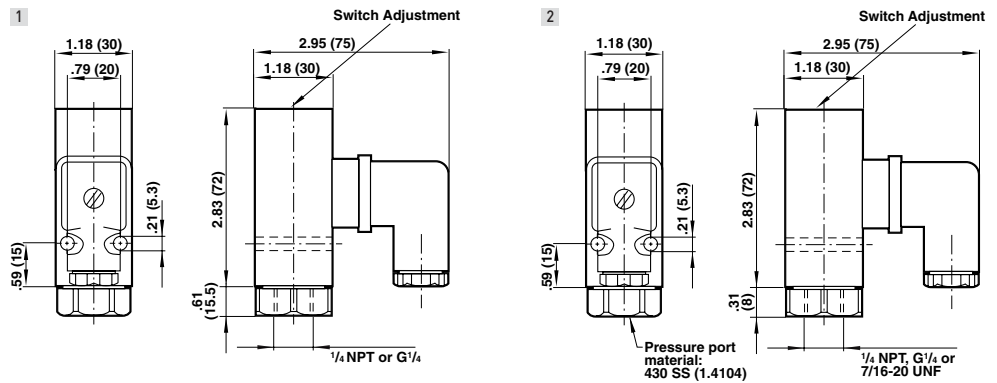
DIN 43 650

Switching element

Microswitch

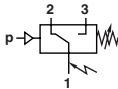
Degree of protection

IP 65



Models

Pneumatic Model No.	Port size NPT	Type	Pressure range psi (bar)	Switching pressure difference psi* (bar) lower range upper range	Dimension Drawing No.	Thread NPT	Tube Size	Straight Fitting	90° swivel elbow
0880220	1/4"	Female	3 - 30 [0.2 - 2]	2 [0.15] 4 [0.27]	1	1/4"	3/8"	C24250628	C24470628
0880320	1/4"	Female	7 - 120 [0.5 - 8]	4 [0.2] 9 [0.65]	2	1/4"	3/8"	C24250628	C24470628
0880420	1/4"	Female	15 - 230 [1 - 16]	4 [0.2] 13 [0.90]	2	1/4"	3/8"	C24250628	C24470628



Note: Switches are supplied with DIN 43650 mating connector.

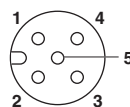
* Switching pressure difference (hysteresis) is not adjustable. Typical values are shown.

Caution: Observe switching range. Do not subject switch to maximum allowable pressure during normal operation. Even short pressure peaks must not exceed this value.

Electrical Information

Electromagnetic compatibility	CE marked: conforms to EC requirements EN 50081-2 (1994) and EN 50082-2 (1995)
Electrical input signal	4 to 20 mA or 0 to 10 V factory set
Electrical power input	24 V d.c. ±25% (power consumption < 1 W)
Output pressure feedback signal	0 ... 10 V full range
Connections	DIN 43650 or Brad Harrison connection for feedback output

Pin configuration



1	+24 V d.c. supply
2	0 to 10 full range
3	Control signal (+ve)
4	Common (DC supply, signal and feedback return)
5	Chassis (earth)



NORGREN EXPRESS.

The fast track to rail success

If your business is working with the rail industry, you probably already know about Norgren. After all, we have over 25 years in supporting companies just like yours, with applications ranging from oil carryover through pantographs to water control.

If you're doing a refurbishment project, **Norgren Express** can advise which spares you need – everything from airline equipment and valves, to specialist fittings.

Looking for standard airline spares? **Norgren Express** can help supply many of the specialist rail products.



AIRLINE



VALVES



FITTINGS

Visit www.norgren.com/rail
or call the Express Team today for rapid
support on your rail refurbishment projects



When you need it **fast**.

Airline Preparation

Going right back to 1927 when Carl Norgren first sketched out the design for the original Lubricator, Norgren has been at the forefront of air preparation products. In this section you will find a range of top quality airline products, from the new innovative Excelon Pro, to industry renowned Excelon filters, regulators and lubricators to stainless steel units as well as precision and special purpose pressure regulators. Use the fast find guide to speed you to the right product to get the job done, follow the links at the bottom of each page to get rich technical data online or call the team for rapid quotation and delivery.



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ALE-1

Fast Find Guide

EXCELON® PRO – MODULAR SYSTEM

Combination units
ø 1/4"



Page ALE-4

General purpose filter
F92
ø 1/4"



Page ALE-8

Coalescing filter
F92C
ø 1/4"



Page ALE-9

Regulator
R92
ø 1/4"



Page ALE-10

Filter/regulator
B92
ø 1/4"



Page ALE-11

Lubricator (oil-fog)
L92
ø 1/4"



Page ALE-12

Lockout/Shut-off
valve T92
ø 1/4"



Page ALE-13

EXCELON® – MODULAR SYSTEM

Excelon modular
system
Box sets
1/4" to 1/2"



Page ALE-14

General purpose filters
F72G, F73G, F74G
1/4" to 3/4"



Page ALE-16

Oil removal filters
F72C, F73C, F74C, F74H
1/4" to 3/4"



Page ALE-18

Oil vapor removal
filters F72V, F74V
1/4" to 3/4"



Page ALE-20

Pressure regulators
R72G, R73G, R74G
1/4" to 3/4"



Page ALE-21

Filter/regulators
B72G, B73G, B74G
1/4" to 3/4"



Page ALE-22

Manifold regulators
R72M, R74M
1/4" and 1/2"



Page ALE-23

Lubricators
L72, L73, L74
1/4" to 3/4"



Page ALE-24

Pressure relief valves
V72G, V74G
1/4" to 3/4"



Page ALE-25

Lockout valves
T72, T73, T74
1/4" to 3/4"



Page ALE-26

Soft start/dump valves
P72F, P74F
1/4" to 3/4"



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MINIATURE SERIES, GENERAL PURPOSE

Filter/regulators-
lubricators
PTH
1/8" and 1/4"



Page ALE-28

General purpose filter
F07
1/8", 1/4"



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Regulators
R07, R46
1/8", 1/4"



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Filter/regulator
B07
1/8", 1/4"



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Oil removal filter
F39
1/8", 1/4"



Page ALE-32

Lubricators
L07
1/8", 1/4"



Page ALE-33

Pressure
relief valve –
diaphragm type V07
1/8", 1/4"



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Fast Find Guide

MAINLINE SERIES UNITS

General purpose filters
F17
3/4" to 1-1/2"



Page ALE-35

General purpose filters
F18
1/2" and 2"



Page ALE-36

Coalescing filter
F46
3/4", 1", 1-1/4"



Page ALE-37

Regulators
R17
3/4" to and 1-1/2"



Page ALE-38

Pilot operated
regulators
R18
1-1/2" and 2"



Page ALE-39

Lubricators
L17
3/4" to 1-1/2"



Page ALE-40

SPECIAL PURPOSE

'Micro Trol' special
purpose pressure
regulators **R24**
1/4" to 1-1/4"



Page ALE-41

Precision regulators
11-002 and 20AG
1/4" to 1"



Page ALE-42

Pilot operated
pressure regulator
11-808, 11-042
1/2" to 1-1/4"



Page ALE-43

Conventional and
Feedback pilot
regulators **R40, R41**
1/4"



Page ALE-44

Pilot operated
regulators
20-AL, 11-400, 11-104
1/4"



Page ALE-45

Precision pressure
regulator
11-018, R27
1/4"



Page ALE-46

Precision instrument
regulator and filter/
regulator **R38, B38**
1/4"



Page ALE-47

STAINLESS STEEL – GENERAL PURPOSE AND PRECISION

Precision regulator, nd
filter/regulator
R38, B38
1/4"



Page ALE-48

General purpose
filter/regulator **B38**



Page ALE-49

Filters, pressure
regulators, lubricators
F22, R22, L22
1/2" NPTF



Page ALE-50

General purpose
regulators & filter-
regulator
R05, B05
1/4" PTF



Page ALE-52

COMPRESSED AIR, WATER, AND BEVERAGE

Water pressure
regulator **11 044**
1/4" tube connection



Page ALE-53

Water/air regulator
R06
1/8" and 1/4"



Page ALE-54

Water regulator
R91
1/4"



Page ALE-55

Water regulators
R43, 11 009
1/4", 3/8", and 1/2"



Page ALE-56

U.L. listed industrial
service regulators
R44
1/4"



Page ALE-57

U.L. listed beverage
regulators
R81, R82, R83, R84
1/4"



Page ALE-58

Relief valves
16-004
1/8", 1/4"



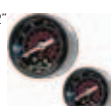
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Drip leg drain
17-016
1/8", 1/4"



Page ALE-60

Gauges
18-013
1/8", and 1/2"



Page ALE-61

Blow guns
BG Series
1/4"



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ALE-3

EXCELON® PRO SERIES

Combination shut off valve, filter/regulator and lubricator

BL92 - 1/4" PTF and 1/4" PIF

- Configuration flexibility
- Excellent value
- No tools required for assembly

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure

Manual drain: 175 psig (12 bar)

Automatic drain: 150 psig (10 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Body: PBT

Bonnet: PBT

Valve elastomer: Geolast

Diaphragm: Nitrile

Transparent bowl: Polycarbonate

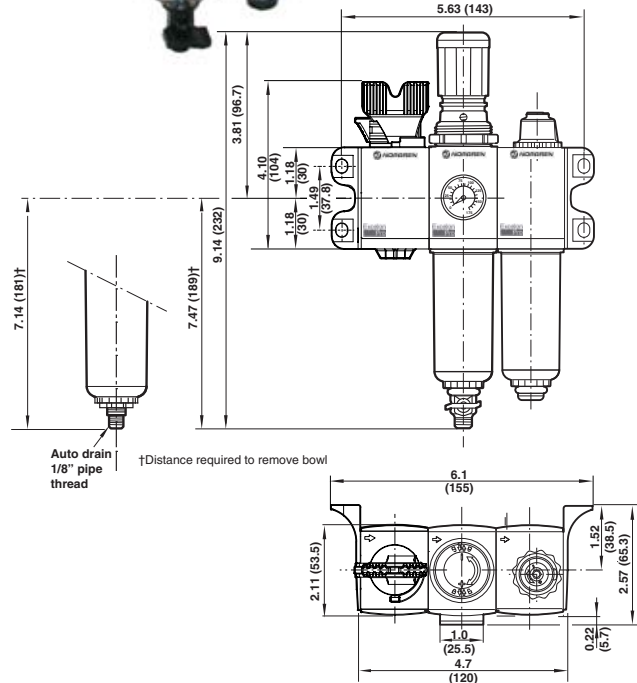
Element: Sintered polypropylene

Elastomers:

Bowl O-ring - Neoprene

All others - Nitrile

Lubricator sight-feed dome: Transparent nylon



Models

AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size
BL92-211A	BL92-231A	1/4" PTF
BL92-J11E	BL92-J31E	1/4" PIF

Accessories

Tamper resistant cover and seal wire	Porting block	Quikconnect	Auto drain kit	Filter/regulator service kit*	Lubricator service kit**
9255-51	9216-50	9210-50	4000-50R	B92G-KITR	L92C-KIT
9255-51	9216-50	9210-50	4000-50R	B92G-KITR	L92C-KIT

* Kit includes: Diaphragm assembly, valve, valve O-ring, slip ring, bowl O-ring, element, screws

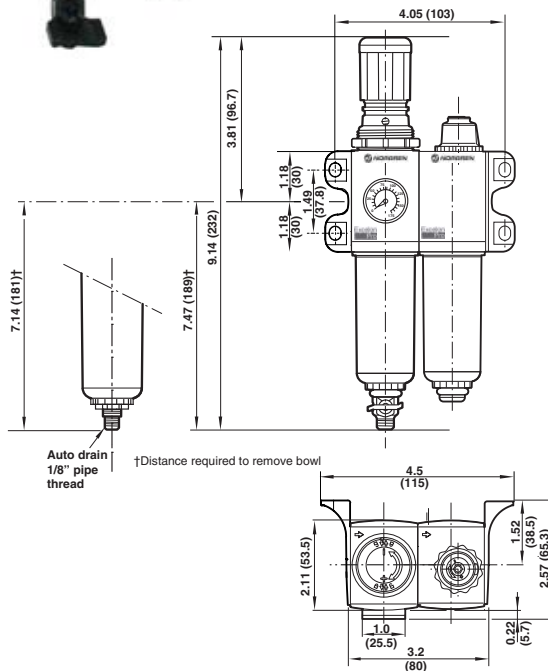
** Kit includes O-ring, feed dome seal



EXCELON® PRO SERIES

Combination filter/regulator and lubricator

BL92 – 1/4" PTF and 1/4" PIF



Configuration flexibility

Excellent value

No tools required for assembly

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure

Manual drain: 175 psig (12 bar)

Automatic drain: 150 psig (10 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Body: PBT

Bonnet: PBT

Valve elastomer: Geolast

Diaphragm: Nitrile

Transparent bowl: Polycarbonate

Element: Sintered polypropylene

Elastomers:

Bowl O-ring - Neoprene

All others - Nitrile

Lubricator sight-feed dome: Transparent nylon

AIRLINE PREPARATION

4

Models

AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size	Accessories					
			Tamper resistant cover and seal wire	Porting block	Quickconnect	Auto drain kit	Filter/regulator service kit*	Lubricator service kit**
								
BL92-215A	BL92-235A	1/4" PTF	9255-51	9216-50	9210-50	4000-50R	B92G-KITR	L92C-KIT
BL92-J15E	BL92-J35E	1/4" PIF	9255-51	9216-50	9210-50	4000-50R	B92G-KITR	L92C-KIT

* Kit includes: Diaphragm assembly, valve, valve O-ring, slip ring, bowl O-ring, element, screws

** Kit includes O-ring, feed dome seal



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ALE-5

EXCELON® PRO SERIES

Combination Lockout-Valve - Filter/Regulator

TB92 – 1/4" PTF and 1/4" PIF

Configuration flexibility

Excellent value

No tools required for assembly

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure

Manual drain: 175 psig (12 bar)

Automatic drain: 150 psig (10 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Body: PBT

Bonnet: PBT

Valve elastomer: Geolast

Diaphragm: Nitrile

Transparent bowl: Polycarbonate

Element: Sintered polypropylene

Elastomers:

Bowl O-ring - Neoprene

All others - Nitrile

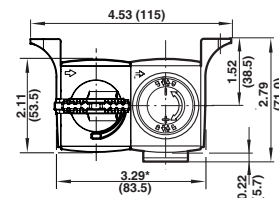
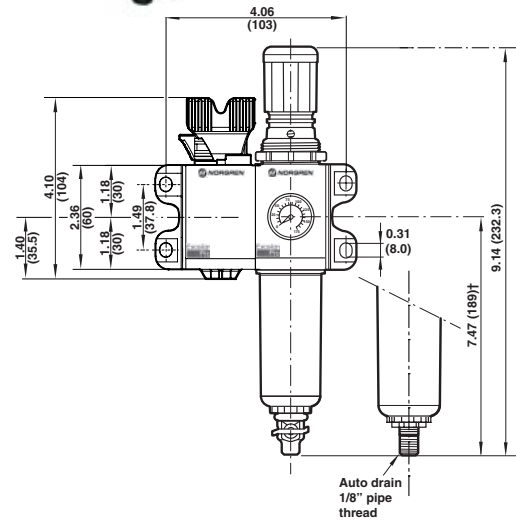
Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: > than 5 psig (0.35 bar)

Bowl pressure required to open drain: < than 3 psig (0.2 bar)

Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl



Models

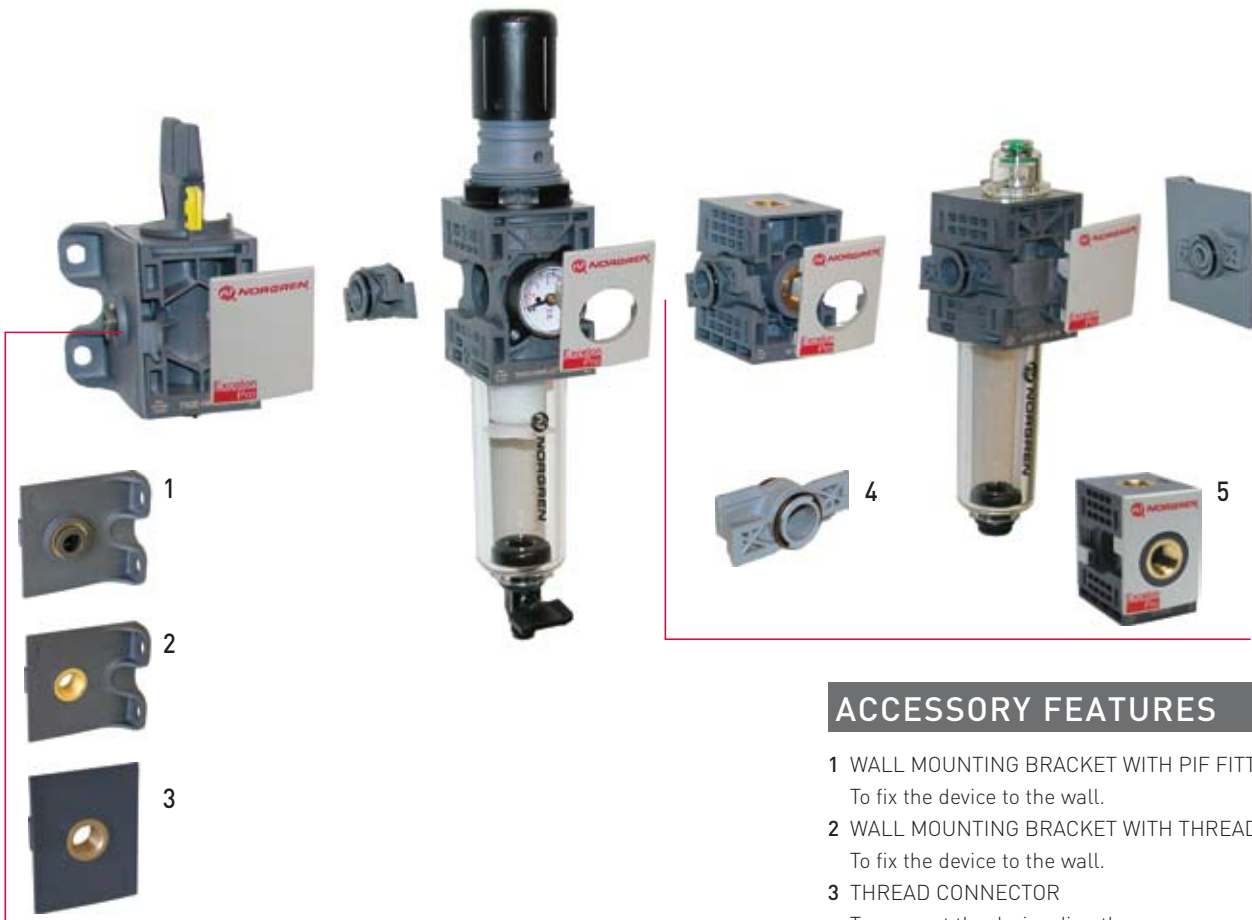
B92G AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size
TB92-215A	TB92-235A	1/4" PTF
TB92-J15E	TB92-J35E	1/4" PIF

Accessories

Tamper resistant cover and seal wire	Porting block	Quikconnect	Auto drain kit	Filter/regulator service kit*
9255-51	9216-50	9210-50	4000-50R	B92G-KITR
9255-51	9216-50	9210-50	4000-50R	B92G-KITR

*Kit includes: Diaphragm assembly, valve, valve O-ring, slip ring, bowl O-ring, element, screws





PATENTED CONNECTION SYSTEM

EASE OF INSTALLATION

Innovative patent pending connection design combined with integral mounting brackets make the Excelon® Pro user friendly and easy to install.

ACCESSORY FEATURES

- 1 WALL MOUNTING BRACKET WITH PIF FITTING
To fix the device to the wall.
- 2 WALL MOUNTING BRACKET WITH THREAD
To fix the device to the wall.
- 3 THREAD CONNECTOR
To connect the device directly.
- 4 QUICK CONNECTOR
Allows easy connection of one Excelon® PRO unit to another.
- 5 PORTING BLOCK
When placed between a filter-regulator and lubricator allows branching off to systems requiring a non-lubricated supply. The locking plates are included (plugs not included)

Connection size PTF or PIF	Push-in fitting connector with mounting bracket	Threaded connector with mounting bracket	Threaded connector without mounting bracket	Quick connector	Shut off valve	Porting block
						
-	-	-	-	9210-50	T92E-NNN-B1N	9216-50
1/8"	-	9212KIT-1A	-	-	-	-
1/4"	9213KIT-4E	9212KIT-2A	9211KIT-2R	-	-	-
3/8"	9213KIT-6E	9212KIT-3A	-	-	-	-
1/2"	9213KIT-8E	-	-	-	-	-

EXCELON® PRO SERIES General purpose filter

F92G – 1/4" PTF and 1/4" PIF

- Configuration flexibility
- Excellent value
- No tools required for assembly

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure

Manual drain: 175 psig (12 bar)

Automatic drain: 150 psig (10 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Body: PBT

Transparent bowl: Polycarbonate

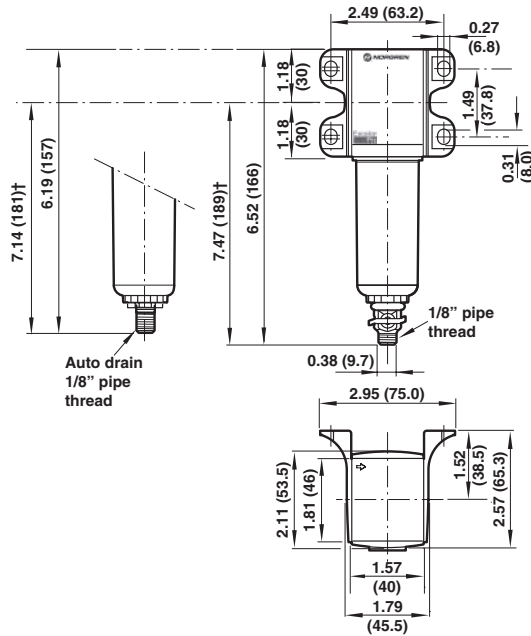
Element: Sintered polypropylene

Elastomers:

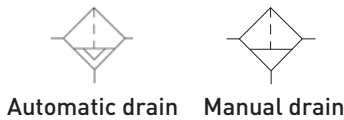
Bowl O-ring - Neoprene

All others - nitrile

Particle removal: 5 µm



ISO Symbol



Automatic drain Manual drain

Models

F92G AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size	Flow* SCFM (dm³/s)
F92G-2AN-AT1	F92G-2AN-QT1	1/4" PTF	40 (19)
F92G-4EN-AT1	F92G-4EN-QT1	1/4" PIF	40 (19)

Accessories

Lockout valve	Porting block	Quikconnect	Auto drain kit	Service kit**
T92E-NNN-B1N	9216-50	9210-50	4000-50R	F92G-KIT
T92E-NNN-B1N	9216-50	9210-50	4000-50R	F92G-KIT

*Typical flow at 90 psig (6.3 bar) inlet pressure, and 5 psig (0.35 bar) pressure drop.

**Kit includes: Bowl O-ring, filter element, louver



EXCELON® PRO SERIES Coalescing filter

F92C – 1/4" PTF and 1/4" PIF



Configuration flexibility

Excellent value

No tools required for assembly

Automatic drain and service life indicator as standard

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure

116 psig (8 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Body: PBT

Transparent bowl: Polycarbonate

Element: Synthetic fiber and polyurethane foam

Elastomers: Bowl O-ring, and service life indicator

O-ring - Neoprene. All others - nitrile

Service Indicator

Body: Polycarbonate

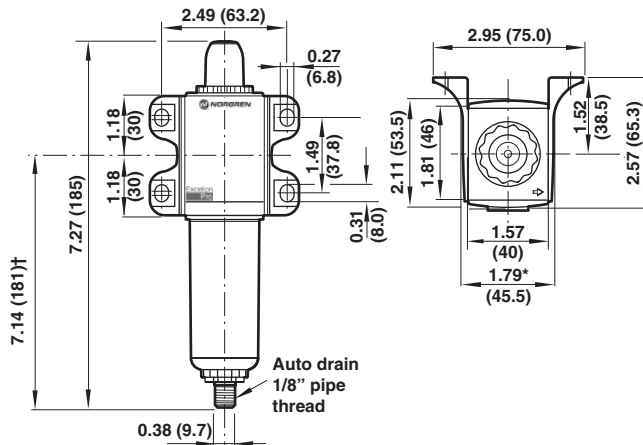
Internal parts: Acetal

Spring: Music wire ASTM 228

Elastomer: Neoprene

Oil removal: 0.01 µm at 70°F (21°C)

Remaining oil content: 0.01 mg/m3 at 70°F (21°C)



ISO Symbol



Automatic drain

Models

F92C AUTO DRAIN Model No.	Port size	Flow SCFM* (dm³/s)
---------------------------------	--------------	-----------------------



F92C-2AD-AT0	1/4" PTF	9.7 [4.6]
F92C-4ED-AT0	1/4" PIF	9.7 [4.6]

Accessories

Lockout valve	Porting block	Quickconnect	Auto drain kit	Service kit**
------------------	------------------	--------------	-------------------	------------------



T92E-NNN-B1N	9216-50	9210-50	4000-50R	F92C-KIT
T92E-NNN-B1N	9216-50	9210-50	4000-50R	F92C-KIT

* Maximum flow with 90 psig [6.3 bar] inlet pressure to maintain stated oil removal performance (saturated element). **Kit includes: Bowl O-ring, service indicator seal, filter element, screws

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



NORGREN
Express

ALE-9

EXCELON® PRO SERIES Regulator

R92G – 1/4" PTF and 1/4" PIF

Configuration flexibility

Excellent value

No tools required for assembly

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure

175 psig (12 bar)

Operating temperature*

-4° to 140°F (-20° to 60°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

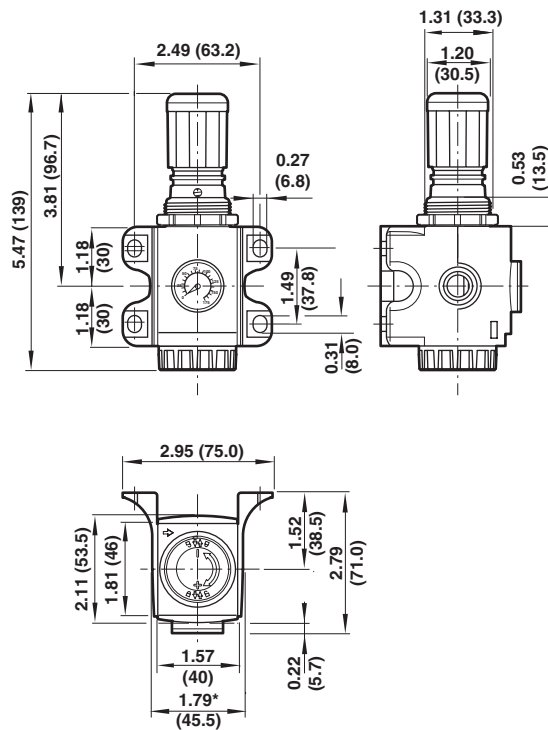
Body: PBT

Elastomers:

Valve elastomer - Geolast

Diaphragm and all other elastomers - nitrile

ISO Symbol



Models

R92G	Port size	Flow* SCFM (dm3/s)	Tamper resistant cover and seal wire	Porting block	Lockout valve	Quikconnect	Service kit**
Model No.							
	1/4" PTF	46 (22)					R92G-KITR
R92G-2AK-RMG	1/4" PTF	46 (22)	9255-51	9216-50	T92E-NNN-B1N	9210-50	R92G-KITR
R92G-4EK-RMG	1/4" PIF	46 (22)	9255-51	9216-50	T92E-NNN-B1N	9210-50	R92G-KITR

* Maximum flow with 145 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure, and a 15 psig (1 bar) drop from set.

** Kit includes: Diaphragm assembly, valve, valve O-ring, slip ring, bottom plug O-ring



EXCELON® PRO SERIES Filter/regulator

B92G – 1/4" PTF and 1/4" PIF



- Configuration flexibility
- Excellent value
- No tools required for assembly

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure

Manual drain: 175 psig (12 bar)

Automatic drain: 150 psig (10 bar)

Operating temperature*

-4° to 125°F [-20° to 52°C]

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F [2°C].

Materials

Body: PBT

Bonnet: PBT

Valve elastomer: Geolast

Diaphragm: Nitrile

Transparent bowl: Polycarbonate

Element: Sintered polypropylene

Elastomers:

Bowl O-ring - Neoprene

All others - Nitrile

Particle removal: 5 µm

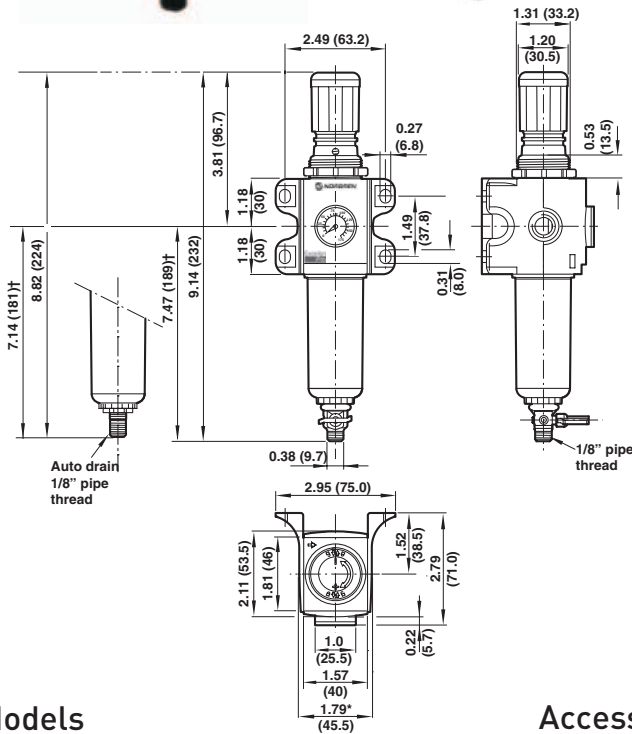
Automatic drain operating conditions (float operated):

Bowl pressure required to close drain: > than 5 psig (0.35 bar)

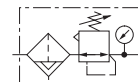
Bowl pressure required to open drain: < than 3 psig (0.2 bar)

Minimum air flow required to close drain: 0.2 scfm (0.1 dm³/s)

Manual operation: Depress pin inside drain outlet to drain bowl



ISO Symbol



Automatic drain



Manual drain

Models

B92G AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size	Flow* SCFM (dm³/s)	Tamper resistant cover/wire	Lockout valve	Porting block	Quikconnect	Auto drain kit	Service kit**
B92G-2AK-AT1-RMG	B92G-2AK-QT1-RMG	1/4" PTF	35 (16)	9255-51	T92E-NNN-B1N	9216-50	9210-50	4000-50R	B92G-KITR
B92G-4EK-AT1-RMG	B92G-4EK-QT1-RMG	1/4" PIF	35 (16)	9255-51	T92E-NNN-B1N	9216-50	9210-50	4000-50R	B92G-KITR

* Maximum flow with 145 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

**Kit includes: Diaphragm assembly, valve, valve O-ring, slip ring, bowl O-ring, element, screws

Accessories



Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



NORGREN
Express

ALE-11

EXCELON® PRO SERIES Lubricator (oil-fog)

L92C - 1/4" PTF and 1/4" PIF

- Configuration flexibility
- Excellent value
- No tools required for assembly

TECHNICAL DATA

Fluid

Compressed air

Maximum pressure

175 psig (12 bar)

Operating temperature*

-4° to 125°F (-20° to 52°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Body: PBT

Transparent bowl: Polycarbonate

Elastomers:

Bowl and sight-feed dome O-ring - Neoprene

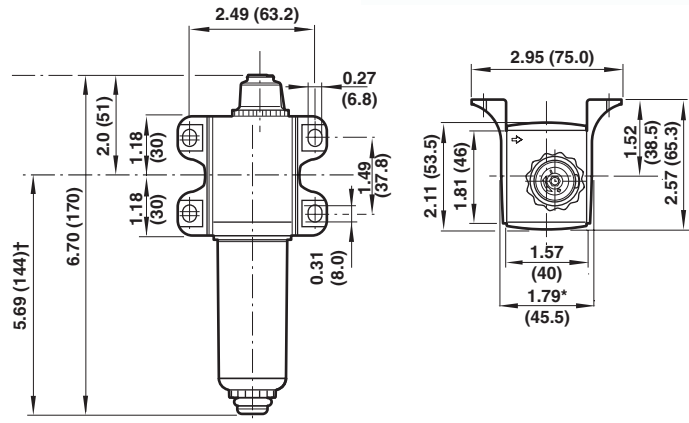
All others - nitrile

Sight-feed dome: Transparent nylon

Recommended lubricant: DTE Light

Nominal bowl capacity: 1.75 fluid oz. (52 ml)

ISO Symbol



EXPRESS PLUS

Have you thought about...

Lubricators extend system's life up to 4 times, saving you money

Models

L92C			
Model No.	Port size	Flow* SCFM (dm³/s)	
L92C-2AP-ETN	1/4" PTF	50 (24)	
L92C-4EP-ETN	1/4" PIF	50 (24)	

Accessories

Lockout valve	Porting block	Quikconnect	Service kit**
T92E-NNN-B1N	9216-50	9210-50	L92C-KIT
T92E-NNN-B1N	9216-50	9210-50	L92C-KIT

*Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 7 psig (0.5 bar)

** Kit includes: Bowl O-ring, and feed some seal



EXCELON® PRO SERIES Lockout/shut-off valve

T92E – 1/4" PTF, 1/4" PIF



Easy to order
Configuration flexibility
Excellent value
No tools required for assembly
RoHS compliant



TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure

175 psig (12 bar)

Cv factor from IN to OUT ports

1/4" PTF: 2.57

3/8" PIF: 1.77

Operating temperature*

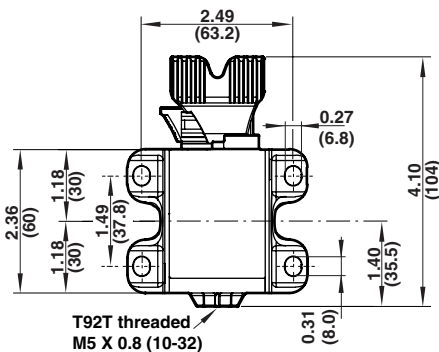
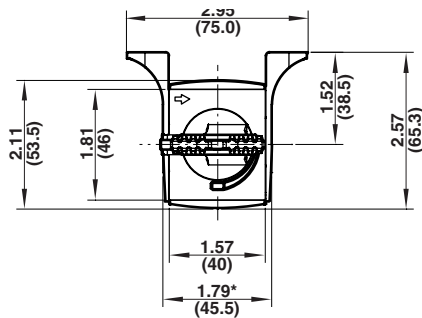
-4° to 140°F [-20° to 60°C]

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F [2°C].

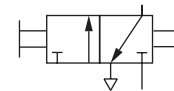
Materials

Body: PBT

Elastomers: Nitrile



ISO Symbol



Models

Model No.	Port size	Flow* Cv
T92E-2AN-B1N	1/4" PTF	2.57
T92E-4EN-B1N	1/4" PIF	1.77



Accessories

Porting block	Quikconnect
9216-50	9210-50
9216-50	9210-50



*Typical flow with 90 psig [6.3 bar] inlet pressure and a pressure drop of 7 psig [0.5 bar]

EXCELON MODULAR SYSTEM

Combination filter/regulators and lubricators

BL72, 73, 74 – 1/4" PTF to 1/2" PTF

Boxed sets are an excellent and attractive marketing tool for counter displays.

True modularity with Norgren Quikclamp® connections

Quick release bayonet bowl

Lubricator flow sensor provides a nearly constant oil/air ratio over a wide range of air flows

All around (360°) visibility of the lubricator sight-feed dome simplifies installation and adjustment

Regulator balanced valve minimizes effect of variation in the inlet pressure on the outlet pressure



Boxed sets



BL72-201A

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl (manual or semi automatic drain): 250 psig (17 bar)

(72) 150 psig (10 bar)

Operating temperature*:

Transparent bowl:

0° to 125°F (-20° to 50°C)

Metal bowl:

0° to 150°F (-20° to 65°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal:

40 µm filter element

Materials

Body: zinc or aluminum

Bonnet: acetal or aluminum

Bowl:

Metal bowl: (72) polycarbonate

(73, 74) aluminum

Metal bowl liquid level indicator lens: transparent nylon

Sight-feed dome: transparent nylon

Element: sintered polypropylene

Elastomers: neoprene, nitrile

Models

BOXED SETS BL72, BL73 AND BL74 WITH SHUT-OFF VALVE
AUTO DRAIN
Model No.

Port
size PTF

Bowl

Accessories

Tamper
resistant kit

Quick fill
nipple

Filter element
(40 micron)



BL72-201A

1/4"

Transparent

4255-51

–

5925-02

BL73-301A

3/8"

Metal

4455-51

18-011-024

4438-03

BL74-401A

1/2"

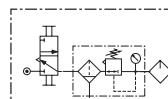
Metal

4355-51

18-011-024

4338-05

ISO Symbol



For full service kits including drains refer to individual units

EXCELON MODULAR SYSTEM

Convenient, secure, modularity

THE MODULARITY OF OUR AIR PREPARATION EQUIPMENT MAKES SELECTING NORGREN THE SMART CHOICE



PATENTED CONNECTION SYSTEM

Modular systems provide a time saving method of connecting and replacing air line components such as filters, regulators, lubricators and safety lockout valves.

The heart of the Excelon system is the simple, one-piece Quikclamp® that allows installation and removal of Excelon air preparation components and accessories without breaking a pipe connection.

All Excelon 72, 73 and 74 products are designed with integral flanges that slide into V-grooves on the Quikclamp. Two face sealing O-rings provide a positive seal when the clamp is closed and captive screw tightened.

» PROVEN ADVANTAGE

WE ARE SELECTED OVER OTHER OPTIONS FOR VERY SOLID REASONS

- 1 THE PREMIUM AND DURABLE APPEARANCE OF OUR UNITS
- 2 UNPRECEDENTED FLEXIBILITY AND EASE OF USE
- 3 SUSTAINABLE MAXIMUM PERFORMANCE
- 4 EASE OF SERVICE AND LOW COST MAINTENANCE
- 5 UNMATCHED MACHINE UPTIME
- 6 COMPETITIVELY PRICED FOR COMPETITION WINNING PERFORMANCE

EXCELON MODULAR SYSTEM General purpose filters

F72G, F73G, F74G – 1/4" to 3/4" PTF

Excelon® design allows in-line or modular installation with other Excelon® products
Quick release bayonet bowl
Highly visible prismatic liquid level indicator lens on metal bowls

TECHNICAL DATA

Fluid: Compressed air

Operating pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

F72G w/metal bowl and automatic drain: 150 psig (10 bar)

Operating temperature*:

Transparent bowl: -30° to 125°F

(-34° to 50°C)

Metal bowl:

(72) -30° to 150°F (-34° to 66°C)

(73, 74) -30° to 175°F (-34° to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

F72G

Body: zinc

Transparent bowl: polycarbonate

Metal bowl: zinc

Metal bowl liquid level indicator lens:

transparent nylon

Element: sintered polypropylene

Elastomers: neoprene and nitrile

F73G & F74G:

Body: aluminum

Metal bowl: aluminum

Metal bowl liquid level indicator lens: transparent nylon

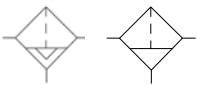
Element: sintered polypropylene

Elastomers: Neoprene and nitrile

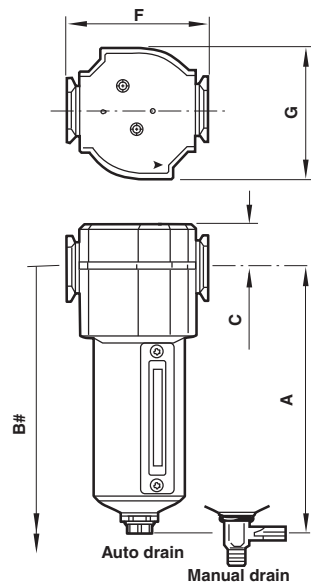
Particle removal: 40 µm



ISO Symbol



Automatic drain Manual drain



Minimum clearance required to remove bowl

EXPRESS PLUS

Have you thought about...

Minimize wear and avoid damaging your compressed air system by carrying out routine maintenance on the filters. See the blue shaded area on the page to select the correct service kit.

Dimensions (inches)

Series	Drain type	A	B	C	F	G
72	Auto	5.51	7.52	0.75	1.97	1.89
	Manual	5.83	7.83	0.75	1.97	1.89
73	Auto	5.80	8.15	0.98	2.68	2.44
	Manual	6.15	8.50	0.98	2.68	2.44
74	Auto	6.35	9.06	0.98	3.15	2.91
	Manual	6.95	9.69	0.98	3.15	2.91



EXCELON MODULAR SYSTEM General purpose filters

F72G, F73G, F74G – 1/4" to 3/4"

Models

F72G SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl
				
F72G 2AN AL3	F72G 2AN QT3	1/4"	55 (26)	Transparent
F72G 2AN AE3	F72G 2AN QD3	1/4"	55 (26)	Metal
F72G 3AN AL3	F72G 3AN QT3	3/8"	55 (26)	Transparent
F72G 3AN AE3	F72G 3AN QD3	3/8"	55 (26)	Metal

Accessories

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Service kit*	Element 40 µm
					
4224-50	4215-02	4214-51	4214-52	4380-500	5925-02
4224-50	4215-02	4214-51	4214-52	4380-500	5925-02
4224-50	4215-03	4214-51	4214-52	4380-500	5925-02
4224-50	4215-03	4214-51	4214-52	4380-500	5925-02

* Kit includes: seal and gasket

F73G SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl
				
F73G 2AN AD3	F73G 2AN QD3	1/4"	53 (25)	Metal
F73G 3AN AD3	F73G 3AN QD3	3/8"	63 (31)	Metal
F73G 4AN AD3	F73G 4AN QD3	1/2"	69 (33)	Metal

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Service kit*	Element 40 µm
					
4424-50	4315-01	4314-51	4314-52	4380-600	4438-03
4424-50	4315-02	4314-51	4314-52	4380-600	4438-03
4424-50	4315-03	4314-51	4314-52	4380-600	4438-03

* Kit includes: seal and gasket

F74G SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl
				
F74G 3AN AD3	F74G 3AN QD3	3/8"	112 (53)	Metal
F74G 4AN AD3	F74G 4AN QD3	1/2"	140 (66)	Metal
F74G 6AN AD3	F74G 6AN QD3	3/4"	140 (66)	Metal

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Service kit*	Element 40 µm
					
4324-50	4315-02	4314-51	4314-52	4380-700	4338-05
4324-50	4315-03	4314-51	4314-52	4380-700	4338-05
4324-50	4315-04	4314-51	4314-52	4380-700	4338-05

* Kit includes: seal and gasket

EXCELON MODULAR SYSTEM

'Puraire'® oil removal filters

F72C, F73C, F74C, F74H – 1/4" to 3/4" PTF

Excelon® design allows in-line or modular installation
 High efficiency oil and particle removal
 Quick release bayonet bowl
 Standard visual service life indicator turns from green to red when the filter element needs to be replaced

TECHNICAL DATA

Fluid:
 Compressed air

Maximum pressure:
 Transparent bowl w/manual drain: 150 psig (10 bar)
 F72C metal bowl w/auto drain : 150 psig (10 bar)
 Metal bowl w/manual drain: 250 psig (17 bar)
 Automatic drain: 116 psig (8 bar)

Operating temperature*:
 Transparent bowl: -30° to 125°F (-34° to 50°C)
 Metal bowl: -30° to 150°F (-34° to 65°C)

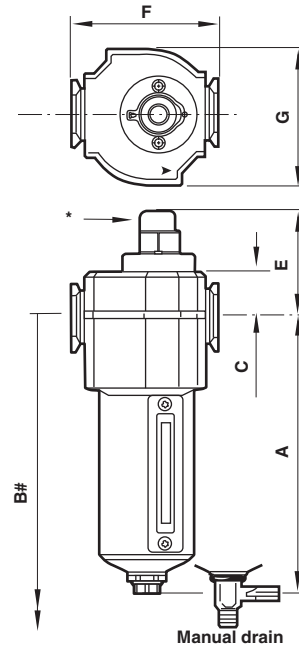
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Oil removal: 0.01 µm at 70°F (21°C)
 Remaining oil content: 0.01 mg/m3 at 70°F (21°C)

Materials
 F72C
 Body: zinc
 Bowl transparent: polycarbonate
 Metal: zinc
 Metal bowl liquid level indicator lens: Transparent nylon
 Element: synthetic fiber and polyurethane foam
 Elastomers: neoprene and nitrile
 Service life indicator materials- Body: transparent nylon.
 Internal parts: acetal.
 Spring: stainless steel.
 Elastomers: nitrile

F73C and F74C
 Body: aluminum
 Bowl: aluminum
 Bowl liquid level indicator lens: Transparent nylon
 Element: synthetic fiber and polyurethane foam
 Elastomers: neoprene and nitrile
 Mechanical service indicator materials Body: transparent nylon
 Internal parts: Acetal
 Spring: Stainless steel
 Elastomers: Nitrile

ISO Symbol



Dimensions (inches)

Series	Drain type	A	B	C	E	F	G
F72C	Auto	5.51	7.52	0.75	2.09	1.97	1.89
	Manual	5.83	7.83	0.75	2.09	1.97	1.89
F73C	Auto	5.80	8.15	0.98	2.36	2.68	2.44
	Manual	6.15	8.50	0.98	2.36	2.68	2.44
F74C	Auto	6.35	9.17	0.98	2.36	3.15	2.91
	Manual	6.95	9.80	0.98	2.36	3.15	2.91
F74H	Auto	8.44	11.18	0.98	2.36	3.15	2.91
	Manual	9.04	11.81	0.98	2.36	3.15	2.91



EXCELON MODULAR SYSTEM 'Puraire'® oil removal filters

F72C, F73C, F74C, F74H – 1/4" to 3/4"

Models

Accessories

F72C SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl	Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Visual service indicator	Electrical service life indicator	Service kit*	Element
												
F72C 2AD ALO	F72C 2AD QTO	1/4"	9.5 [4.5]	Trspnt	4224-50	4215-02	4214-51	4214-52	5797-50	4020-51R	4380-500	5925-09
F72C 2AD AEO	F72C 2AD QDO	1/4"	9.5 [4.5]	Metal	4224-50	4215-02	4214-51	4214-52	5797-50	4020-51R	4380-500	5925-09
F72C 3AD ALO	F72C 3AD QTO	3/8"	9.5 [4.5]	Trspnt	4224-50	4215-03	4214-51	4214-52	5797-50	4020-51R	4380-500	5925-09
F72C 3AD AEO	F72C 3AD QDO	3/8"	9.5 [4.5]	Metal	4224-50	4215-03	4214-51	4214-52	5797-50	4020-51R	4380-500	5925-09

* Kit includes: seal and gasket

F73C SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl	Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Visual service indicator	Electrical service life indicator	Service kit*	Element
												
F73C 2AD ADO	F73C 2AD QDO	1/4"	21.2 [10]	Metal	4424-50	4315-01	4314-51	4314-52	5797-50	4020-51R	4380-602	4444-01
F73C 3AD ADO	F73C 3AD QDO	3/8"	21.2 [10]	Metal	4424-50	4315-02	4314-51	4314-52	5797-50	4020-51R	4380-602	4444-01
F73C 4AD ADO	F73C 4AD QDO	1/2"	21.2 [10]	Metal	4424-50	4315-03	4314-51	4314-52	5797-50	4020-51R	4380-602	4444-01

* Kit includes: seal and gasket

F74C SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl	Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Visual service indicator	Electrical service life indicator	Service kit*	Element
												
F74C 3AD ADO	F74C 3AD QDO	3/8"	33.9 [16]	Metal	4324-50	4315-02	4314-51	4314-52	5797-50	4020-51R	4380-730	4344-01
F74C 4AD ADO	F74C 4AD QDO	1/2"	33.9 [16]	Metal	4324-50	4315-03	4314-51	4314-52	5797-50	4020-51R	4380-730	4344-01

* Kit includes: seal and gasket

F74C SERIES (high flow) AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl	Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Visual service indicator	Electrical service life indicator	Service kit*	Element
												
F74H 4AD ADO	F74H 4AD QDO	1/2"	59.3 [28]	Metal	4324-50	4315-03	4314-51	4314-52	5797-50	4020-51R	4380-730	4344-02
F74H 6AD ADO	F74H 6AD QDO	3/4"	59.3 [28]	Metal	4324-50	4315-04	4314-51	4314-52	5797-50	4020-51R	4380-730	4344-02

* Kit includes: seal and gasket

Service – Quality – Delivery

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ALE-19

EXCELON MODULAR SYSTEM

'Ultraire'® oil vapor removal filters

F72V, F74V – 1/4" to 3/4" PTF

Excelon design allows in-line or modular installation with other Excelon products

Adsorbing type activated carbon element removes oil vapors and most hydrocarbon odors

Quick release bayonet bowl

High intensity blue color change indication (F72V)

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature*:

Transparent bowl:

0° to 125°F (-20° to 50°C)

Metal bowl:

0° to 150°F (-20° to 65°C)

* Air supply must be dry enough to avoid ice

formation at temperatures below 35°F (2°C)

Air quality:

Within ISO 8573-1, Class 1 (oil content) when installed downstream of an oil removal filter.

Maximum remaining oil content in outlet air: 0.003 ppm at 70°F (20°C)

Materials

F72V

Body: zinc

Transparent bowl: polycarbonate

Element: Activated carbon and polycarbonate

Elastomers: nitrile

F74V

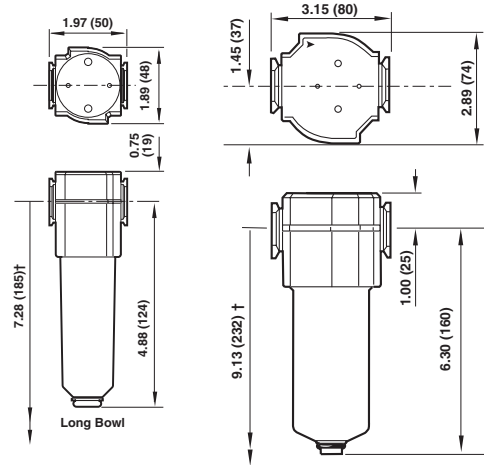
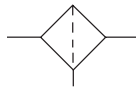
Body: aluminum

Metal bowl: aluminum

Element: activated carbon and aluminum

Elastomers: neoprene and nitrile

ISO Symbol



* Minimum clearance required to remove bowl

Dimensions (inches)

Series	A	B	C	D	E	F	G	H
72	2.36	1.65	1.54	0.73	0.16	1.50	0.24	2.01
74	3.11	2.72	1.97	0.79	0.20	2.01	0.24	2.40

Models

F72V SERIES Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl
F72V 2AN ELC	1/4"	3.4 [1.6]	Transparent
F72V 2AN ECC	1/4"	3.4 [1.6]	Metal
F72V 3AN ELC	3/8"	3.4 [1.6]	Transparent
F72V 3AN ECC	3/8"	3.4 [1.6]	Metal



Accessories

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Service kit*	Element 40 µm
4224-50	4215-02	4214-51	4214-52	4380-500	4241-01
4224-50	4215-02	4214-51	4214-52	4380-500	4241-01
4224-50	4215-03	4214-51	4214-52	4380-500	4241-01
4224-50	4215-03	4214-51	4214-52	4380-500	4241-01



* Kit includes: seal and gasket

F74V SERIES Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl
F74V 3AN EMA	3/8"	27 [13]	Metal
F74V 4AN EMA	1/2"	27 [13]	Metal
F74V 6AN EMA	3/4"	27 [13]	Metal



Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Service kit*	Element 40 µm
4324-50	4315-02	4314-51	4314-52	4380-750	4341-01
4324-50	4315-03	4314-51	4314-52	4380-750	4341-01
4324-50	4315-04	4314-51	4314-52	4380-750	4341-01



* Kit includes: seal and gasket



EXCELON MODULAR SYSTEM

Pressure regulators

R72G, R73G, R74G – 1/4" to 3/4" PTF

Balanced valve design for optimum pressure control

Standard relieving models allow reduction of downstream pressure when the system is dead-ended

Push to lock adjusting knob with tamper resistant accessory

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure: 300 psig (20 bar)

Operating temperature*:

R72: -30° to 150°F (-34° to 65°C)

R73 and R74: -30° to 175°F (-34° to 80°C)

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Elastomers: nitrile

Bottom plug: acetal

R72G

Body: zinc

Bonnet: acetal

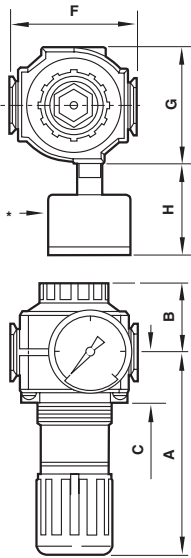
Valve: Brass/Buna

R73G, R74G

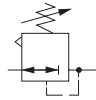
Body: aluminum

Bonnet: aluminum or zinc

Valve: Geolast®



ISO Symbol



Dimensions (inches)

Series	A	B	C	F	G	H	Panel Ø	Panel depth
72	2.87	1.30	1.02	1.97	1.89	1.38	1.57	0 to .16
73	3.78	1.54	1.22	2.68	2.44	2.20	1.89	.07 to .25
74	5.00	1.69	1.22	3.15	2.91	2.20	2.05	.07 to .25

Models

R72G SERIES Model No.	Port size PTF	Flow SCFM* (dm³/s)	Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Neck mounting bracket	Tamper resistant cover & wire	Gauge 0 to 160 psig	Service kit*
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R72G2AKRMN	1/4"	70 [33]	4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	18-013-212	4381-500
R72G3AKRMN	3/8"	70 [33]	4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	18-013-212	4381-500

R73G SERIES Model No.	Port size PTF	Flow SCFM* (dm³/s)	Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Neck mounting bracket	Tamper resistant cover & wire	Gauge 0 to 160 psig	
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R73G2AKRMN	1/4"	91 [43]	4424-50	4315-01	4314-51	4314-52	74316-50	4455-51	18-013-209	4381-600
R73G3AKRMN	3/8"	144 [68]	4424-50	4315-02	4314-51	4314-52	74316-50	4455-51	18-013-209	4381-600
R73G4AKRMN	1/2"	144 [68]	4424-50	4315-03	4314-51	4314-52	74316-50	4455-51	18-013-209	4381-600

R74G SERIES Model No.	Port size PTF	Flow SCFM* (dm³/s)	Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Neck mounting bracket	Tamper resistant cover & wire	Gauge 0 to 160 psig	Service kit*
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R74G3AKRMN	3/8"	208 [98]	4324-50	4315-02	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700
R74G4AKRMN	1/2"	220 [105]	4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700
R74G6AKRMN	3/4"	220 [105]	4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

* Kit includes: seal and gasket



Service – Quality – Delivery

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ALE-21

EXCELON MODULAR SYSTEM Filter/regulators

B72G, B73G, B74G – 1/4" to 3/4" PTF

High efficiency water and particle removal

Quick release bayonet bowl

Push to lock adjusting knob with tamper resistant accessory

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure:

Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

B72G metal bowl w/ auto drain:

150 psig (10 bar)

Operating temperature*:

Transparent bowl:

(72) -30° to 125°F (-34° to 50°C)

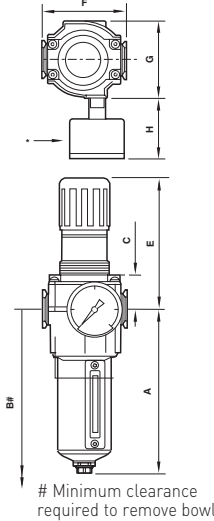
Metal bowl:

(72) -30° to 150°F (-34° to 66°C)

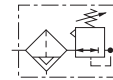
(73, 74) -30° to 175°F (-34° to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal: 40 µm



ISO Symbol



Dimensions (inches)

Series	Drain	A	B	C	E	F	G	H	Panel Ø	Panel depth
72	Auto	5.51	7.52	1.02	2.87	1.97	1.89	1.38	1.57	0 to .16
	Manual	5.83	7.83	1.02	2.87	1.97	1.89	1.38	1.57	0 to .16
73	Auto	5.80	8.15	1.22	3.78	2.68	2.44	2.20	1.89	.07 to .25
	Manual	6.15	8.50	1.22	3.78	2.68	2.44	2.20	1.89	.07 to .25
74	Auto	6.35	9.06	1.22	5.00	3.15	2.91	2.20	2.05	.07 to .25
	Manual	6.95	9.69	1.22	5.00	3.15	2.91	2.20	2.05	.07 to .25

Models

B72G SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl
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B72G 2AK AL3 RMN	B72G 2AK QT3 RMN	1/4"	80 [38]	Transparent
B72G 2AK AE3 RMN	B72G 2AK QD3 RMN	1/4"	80 [38]	Metal
B72G 3AK AL3 RMN	B72G 3AK QT3 RMN	3/8"	80 [38]	Transparent
B72G 3AK AE3 RMN	B72G 3AK QD3 RMN	3/8"	80 [38]	Metal

B73G SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl
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B73G 2AK AD3 RMN	B73G 2AK QD3 RMN	1/4"	78 [37]	Metal
B73G 3AK AD3 RMN	B73G 3AK QD3 RMN	3/8"	123 [58]	Metal
B73G 4AK AD3 RMN	B73G 4AK QD3 RMN	1/2"	123 [58]	Metal

B74G SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Bowl
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B74G 3AK AD3 RMN	B74G 3AK QD3 RMN	3/8"	163 [77]	Metal
B74G 4AK AD3 RMN	B74G 4AK QD3 RMN	1/2"	212 [100]	Metal
B74G 6AK AD3 RMN	B74G 6AK QD3 RMN	3/4"	212 [100]	Metal

Accessories

Wall mounting bracket	Neck mounting bracket	Gauge 0 to 160 psig	Tamper resistant cover & wire	Replacement element 40 µm	Service kit*
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4224-50	74316-50	18-013-212	4255-51	5925-02	4383-500
4224-50	74316-50	18-013-212	4255-51	5925-02	4383-500
4224-50	74316-50	18-013-212	4255-51	5925-02	4383-500
4224-50	74316-50	18-013-212	4255-51	5925-02	4383-500

Wall mounting bracket	Neck mounting bracket	Gauge 0 to 160 psig	Tamper resistant cover & wire	Replacement element 40 µm	Service kit*
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4424-50	4461-50	18-013-209	4455-51	4438-03	4383-600
4424-50	4461-50	18-013-209	4455-51	4438-03	4383-600
4424-50	4461-50	18-013-209	4455-51	4438-03	4383-600

Wall mounting bracket	Neck mounting bracket	Gauge 0 to 160 psig	Tamper resistant cover & wire	Replacement element 40 µm	Service kit*
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4324-50	4368-51	18-013-209	4355-51	4338-05	4383-700
4324-50	4368-51	18-013-209	4355-51	4338-05	4383-700
4324-50	4368-51	18-013-209	4355-51	4338-05	4383-700

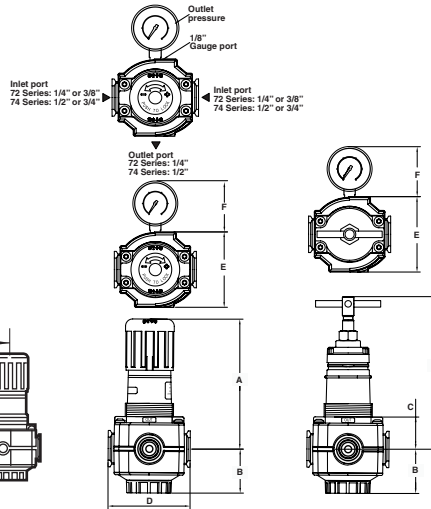
*Kit includes: Diaphragm assembly, valve assembly, valve spring, louvre O-ring, bowl O-ring, drain seal



EXCELON MANIFOLD REGULATORS

R72M and R74M

1/4" to 3/4" PTF



Dimensions (inches)

Series	A	B	C	D	E	F	G	H	Panel Ø	Panel depth
72	2.88 (73.3)	1.31 (33.2)	1.01 (25.7)	1.98 (50.2)	1.91 (48.4)	1.90 (48.3)	4.03/4.25** (102.2/108)	2.24 (56)	1.57 (39)	0 to .16 (0 to 4)
74	4.98 (126.6)	1.69 (43.0)	1.24 (31.4)	3.1 (80.0)	2.89 (73.5)	2.72 (69.0)	5.86 (148.8)	3.68 (94)	2.05 (52)	.07 to .25 (1.8 to 6)

Models

F72M SERIES Model No.	Inlet port (2) PTF	Outlet port (1) PTF	Flow SCFM* (dm³/s)
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R72M 2AK RMN	1/4"	1/4"	83 (39)
R72M 3AK RMN	3/8"	1/4"	83 (39)

Accessories

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Neck mounting bracket	Tamper resistant cover & wire	Gauge 0 to 160 psig	Service kit**
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4224-50	4215-02	4214-51	4214-52	74316-50	4255-51	18-013-212	4381-500
4224-50	4215-03	4214-51	4214-52	74316-50	4255-51	18-013-212	4381-500

F74M SERIES Model No.	Inlet port (2) PTF	Outlet port (1) PTF	Flow SCFM* (dm³/s)
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R74M 4AK RMN	1/2"	1/2"	27 (13)
R74M 6AK RMN	3/4"	1/2"	27 (13)

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Neck mounting bracket	Tamper resistant cover & wire	Gauge 0 to 160 psig	Service kit**
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4324-50	4315-03	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700
4324-50	4315-04	4314-51	4314-52	4368-51	4355-51	18-013-209	4381-700

* Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

** Kit includes: seal and gasket

Excelon® design allows in-line or modular installation

Manifold typically up to six regulators without booster signal

RoHS compliant

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure:

290 psig (20 bar)

Operating temperature*:

R72M: -30° to 150°F (-34° to 65°C)

R74M: -30° to 175°F (-34° to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Ports:

Inlet ports (2):

R72M: 1/4" or 3/8" PTF

R74M: 1/2" or 3/4" PTF

Outlet port (1):

R72M: 1/4" PTF

R74M: 1/2" PTF

Gauge port (1):

1/8" PTF with PTF inlet ports

ISO Symbol



EXCELON MODULAR SYSTEM Lubricators

L72, L73, L74 – 1/4" to 3/4" PTF

Excelon design allows in-line or modular installation

Flow sensor provides a nearly constant oil/air ratio over a wide range of flows

All round (360°) visibility of sight-feed dome for ease of drip rate setting

Micro-fog lubricators for best lubrication in general purpose pneumatic applications

TECHNICAL DATA

Fluid: Compressed air

Maximum pressure: Transparent bowl: 150 psig (10 bar)

Metal bowl: 250 psig (17 bar)

Operating temperature*: (72) -30° to 150°F (-34° to 66°C)

(73, 74) -30° to 175°F (-34° to 80°C)

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Transparent bowl: polycarbonate

Liquid level indicator lens (metal bowl): transparent nylon

L72

Body: zinc

Elastomers: nitrile

Metal bowl: zinc

Sight-feed dome: transparent nylon

Elastomers: neoprene, nitrile & Geolast

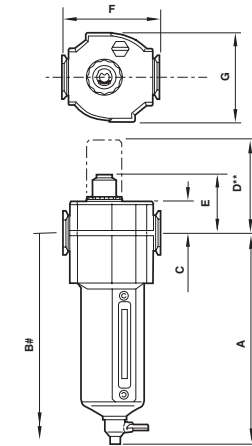
L73, L74

Body: aluminum

Metal bowl: aluminum

Sight-feed dome: transparent nylon

Elastomers: neoprene & nitrile



Minimum clearance required to remove bowl



ISO Symbol



Dimensions

Series	A	B	C	D	E	F	G
72	5.83	9.13	0.75	2.52	1.61	1.97	1.89
73	6.15	10.04	0.98	2.76	1.85	2.68	2.44
74	6.95	10.87	0.98	2.68	1.85	3.15	2.91

Models

L72 SERIES Model No.	Port size PTF	Flow SCFM (dm³/s)	Bowl
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L72M 2AP QDN	1/4"	51 [24]	Metal
L72M 2AP QTN	1/4"	51 [24]	Transparent
L72M 3AP QDN	3/8"	51 [24]	Metal
L72M 3AP QTN	3/8"	51 [24]	Transparent

Accessories

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Sight feed dome	Service kit*
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4224-50	4215-02	4214-51	4214-52	4055-50	4382-500
4224-50	4215-02	4214-51	4214-52	4055-50	4382-500
4224-50	4215-03	4214-51	4214-52	4055-50	4382-500
4224-50	4215-03	4214-51	4214-52	4055-50	4382-500

L73 SERIES Model No.	Port size PTF	Flow SCFM (dm³/s)	Bowl
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L73M 2AP QDN	1/4"	60 [28]	Metal
L73M 3AP QDN	3/8"	60 [28]	Metal
L73M 4AP QDN	1/2"	60 [28]	Metal

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Quick fill nipple	Sight feed dome	Service kit*
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4424-50	4315-01	4314-51	4314-52	18-011-024	4055-50	4382-600
4424-50	4315-02	4314-51	4314-52	18-011-024	4055-50	4382-600
4424-50	4315-03	4314-51	4314-52	18-011-024	4055-50	4382-600

L74 SERIES Model No.	Port size PTF	Flow SCFM (dm³/s)	Bowl
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L74M 3AP QDN	3/8"	114 [54]	Metal
L74M 4AP QDN	1/2"	154 [73]	Metal
L74M 6AP QDN	3/4"	142 [67]	Metal

Wall mounting bracket	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket	Quick fill nipple	Sight feed dome	Service kit*
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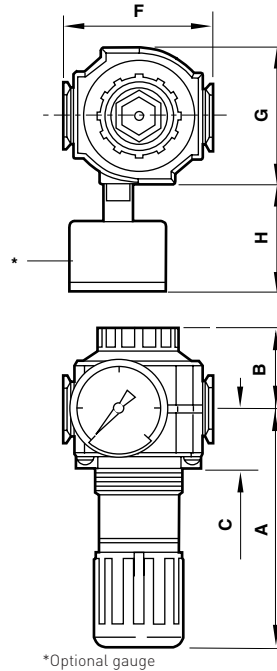
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4324-50	4315-03	4314-51	4314-52	18-011-024	4055-50	4382-700
4324-50	4315-04	4314-51	4314-52	18-011-024	4055-50	4382-700

* Kit includes: Seal and gasket



EXCELON MODULAR SYSTEM Pressure relief valves

V72G, V74G – 1/4" to 3/4" PTF



Excelon design allows in-line installation or modular installation with other Excelon products

Push to lock adjusting knob with tamper resistant accessory

Helps protect air operated equipment from over pressurisation

Norgren pressure relief valves comply with category 0(S.E.P.) and category 1 of the Pressure Equipment Directive 97/23/EC.

TECHNICAL DATA

Medium:

Compressed air

Gauge ports:

1/8" PTF (V72G), 1/4" PTF (V74G)

Relief port:

1/4" PTF (V72G), 1/2" PTF (V74G)

Ambient temperature:

(72) -30° to 150°F (-34° to 65°C)

(74) -30° to 175°F (-34° to 80°C)

Consult our Technical Service for use below +2°C

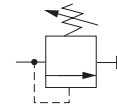
Relief pressure adjustment range:

250 psig (17 bar)

Dimensions (inches)

Series	A	B	C	F	G	H	Panel Ø	Panel depth
V72	2.87	0.98	1.02	1.97	1.89	1.38	1.57	0 to 0.2
V74	5.00	1.69	1.22	3.15	2.91	2.20	2.05	0.08 to 0.2

ISO Symbol



Models

V72G SERIES Model No.	Port size PTF	Wall mounting bracket	Neck mounting bracket	Gauge 0 to 160 psig	Tamper resistant kit	Silencer	Service kit*
							
V72G-2AK-NMN	1/4"	4224-50	74316-50	18-013-212	4255-51	MB002A	4209-03
V72G-3AK-NMN	3/8"	4224-50	74316-50	18-013-212	4255-51	MB002A	4209-03

* Kit includes: Diaphragm and seal

V74G SERIES Model No.	Port size PTF	Wall mounting bracket	Neck mounting bracket	Gauge 0 to 160 psig	Tamper resistant kit	Silencer	Service kit*
							
V74G-3AK-NMN	3/8"	4324-50	4368-51	18-013-209	4355-51	MB004A	4384-700
V74G-4AK-NMN	1/2"	4324-50	4368-51	18-013-209	4355-51	MB004A	4384-700
V74G-6AK-NMN	3/4"	4324-50	4368-51	18-013-209	4355-51	MB004A	4384-700

* Kit includes: Diaphragm and seal

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



NORGREN
Express

ALE-25

LOCKOUT VALVES

1/4" PTF to 3/4" PTF

Excelon® design allows in-line or modular installation
Valves can be locked in the closed position only
Excelon® 3-port/2-position lockout valves help conform to OSHA Lockout regulations in USA market.

TECHNICAL DATA

Fluid: Compressed air

Maximum Pressure: 250 psig (17 bar)

Operating Temperature*: -30° to 150°F (-34° to 65°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Cv factor from IN to OUT ports

1/4" ports: 4.0

3/8" ports: **T73** - 8.0, **T74** - 7.1

1/2" ports: **T73** - 7.8, **T74** - 8.1

3/4" ports: 7.7

Cv factor from OUT to Exhaust ports on 3-port/2-position valves: 0.2.

Exhaust port threads on T72T and T73T models:
10-32

Exhaust port threads on T74T models:

1/8 PTF with PTF main ports

1/8" ISO Rc with ISO G and ISO Rc main ports

Hole diameter in slide for padlock 72 and 73: 5/16" (8 mm)

Hole diameter in slide for padlock: 0.29" (7.5 mm)

Materials

Body: Zinc

Slide: Acetal plastic

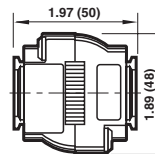
Elastomers: Nitrile



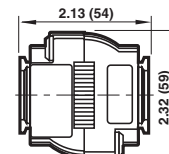
T72 and T73



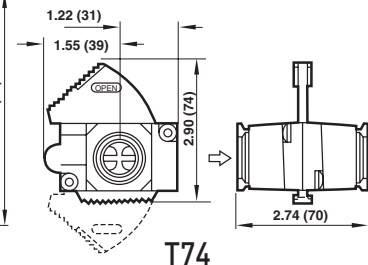
T74



T72

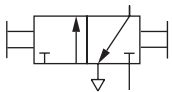


T73



T74

ISO Symbol



Models

T SERIES Lockout valves Model No.	Port size PTF
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T72E-2AA-P1N	1/4"
T72E-2AA-P1N	3/8"
T73E-2AA-P1N	1/4"
T73E-3AA-P1N	3/8"
T73E-4AA-P1N	1/2"
T74E-3AA-P1N	3/8"
T74E-4AA-P1N	1/2"
T74E-6AA-P1N	3/4"

Accessories

Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket
------------------------------	------------	-----------------------------



4215-02	4214-51	4214-52
4215-03	4214-51	4214-52
4315-01	4314-51	4314-52
4315-02	4314-51	4314-52
4315-03	4314-51	4314-52
4315-02	4314-51	4314-52
4315-03	4314-51	4314-52
4315-04	4314-51	4314-52



EXCELON MODULAR SYSTEM Soft start/dump valves

P72F, P74F – 1/4" PTF to 3/4" PTF

Controlled increase of downstream pressure on start up reduces possible damage and hazard to user

High forward flow capacity

High flow dump facility

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure solenoid operated:

Dependent on solenoid rating
[must not exceed 250 psig (17 bar)]

Maximum pressure pilot operated:

250 psig (17 bar) max.

Minimum operating pressure:

44 psig (3 bar)

Operating temperature solenoid

operated:

Dependent on solenoid rating
[must be within range
0° to 150°F** (-20° to 65°C)] (72)
[must be within range
0° to 175°F** (-20° to 80°C)]

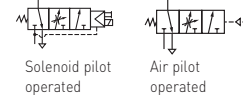
Operating temperature pilot operated:

0°* to 150°F (-20°* to 65°C) (72)
0°* to 175°F (-20°* to 80°C) (74)

* Reducing the possibility of equipment damage and hazards to the user.

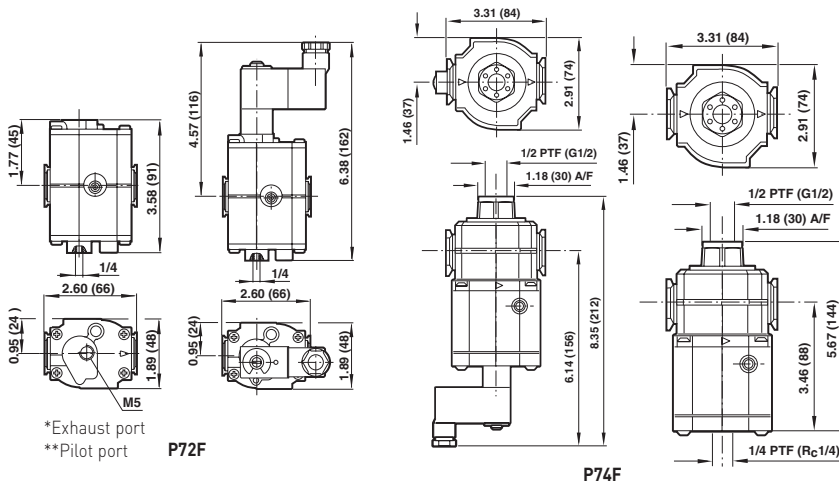
** Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

ISO Symbol



Solenoid pilot operated

Air pilot operated



*Exhaust port
**Pilot port

P72F

P74F

Models

P72F SERIES - 24V d.c. SOLENOID PILOT OPERATED Model No.	AIR PILOT OPERATED Model No.	Port size PTF
--	------------------------------------	---------------------



P72F-2AC-PFA	P72F-2AC-NNN	1/4"
P72F-3AC-PFA	P72F-3AC-NNN	3/8"

Accessories

Silencer	Connector plug with cable gland	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket
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MB004A	54934-01	4215-02	4214-51	4214-52
MB004A	54934-01	4215-03	4214-51	4214-52

P74F SERIES - 24V d.c. SOLENOID PILOT OPERATED Model No.	AIR PILOT OPERATED Model No.	Port size PTF
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P74F-4AC-PFA	P74F-4AC-NNN	1/2"
P74F-6AC-PFA	P74F-6AC-NNN	3/4"

Silencer	Connector plug with cable gland	Quikmount pipe adapter	Quikclamp®	Quikclamp and bracket
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MB004A	54934-01	4315-03	4314-51	4314-52
MB004A	54934-01	4315-04	4314-51	4314-52

Service – Quality – Delivery

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NORGREN
Express

ALE-27

FILTER/REGULATOR-LUBRICATOR

PTH 1/8" PTF, 1/4" PTF Combination Units

Compact design

Filter removes liquids and solid particles down to 5 μm

Push to lock adjusting knob with tamper resistant option

Micro-Fog lubricator provides air line lubrication

to one or more air driven tools or other devices

Nearly constant oil density output with varying air flow

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure

150 psig (10 bar)

Operating temperature*

0° to 125°F (-20° to 50°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Typical flow at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set:

1/8" ports: 10 scfm (5 dm³/s)

1/4" ports: 14 scfm (7 dm³/s)

Drain connection:

1/8" male pipe

Filter/Regulator

Particle removal:

5 μm Within ISO 8573-1, Class 3 and Class 5

Gauge ports:

1/8" PTF with PTF main ports

Lubricator

Start point (i.e., minimum flow required for lubricator operation): 0.5 scfm (0.24 dm³/s) at 90 psig (6.3 bar) inlet pressure

Nominal bowl capacity:

1 fluid ounce (31 ml)

Materials

Bodies: Zinc

Filter/Regulator bonnet: Acetal

Filter/Regulator valve seat: Acetal

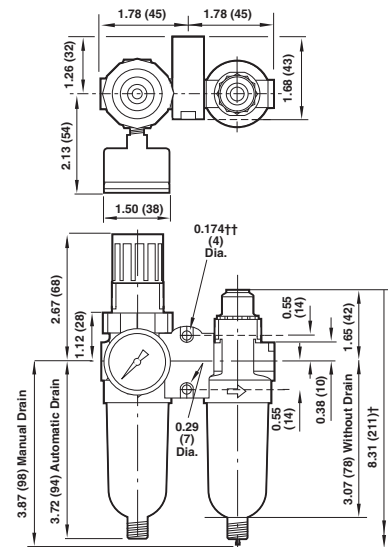
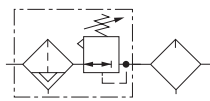
Bowls: Polycarbonate

Lubricator sight-feed dome: Transparent nylon

Filter element: Sintered polypropylene

Elastomers: Nitrile

ISO Symbol



† Minimum distance required to remove bowl
†† Mounting holes

Models

PTH SERIES		Port	Outlet pressure	Flow**
MANUAL DRAIN	AUTO DRAIN	Port size	adjustment	SCFM
Model No.		PTF	range* PSIG (bar)	(dm ³ /s)



PTH-100-M1AA	PTH-100-A1AA	1/8"	5 to 100 (0.3 to 7)	10 (5)
PTH-200-M1AA	PTH-200-A1AA	1/4"	5 to 100 (0.3 to 7)	14 (7)

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges

** Typical flow at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set

Accessories

Neck mounting bracket	Sight feed dome	Service kit filter/regulator*	Service kit lubricator**
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18-025-003	4055-50	3820-02	3795-03
18-025-003	4055-50	3820-02	3795-03

* Filter/regulator service kit contains slip ring, diaphragm, valve seat with o-ring, valve, valve spring, element, element gasket, and bowl o-ring

** Lubricator service kit contains sight-feed dome seal, cartridge o-ring, and bowl o-ring.



MINIATURE, GENERAL PURPOSE UNITS

F07 Filters- 1/8"PTF, 1/4" PTF



Direct ported filters with high water removal efficiency

Automatic drains supplied as standard

High flow miniature unit

Transparent bowl for 360° visibility

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

150 psig (10 bar)

Operating temperature:*

Transparent bowl:

-30° to 125°F (-34° to 50°C)

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Particle removal:

5 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Drain connection:

1/8" male pipe thread

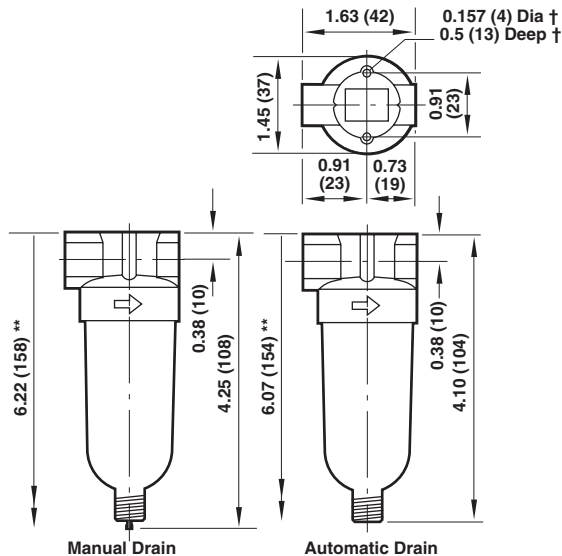
Materials

Body: zinc

Transparent bowl: Polycarbonate

Element: sintered polypropylene

Elastomers: neoprene & nitrile



** Minimum clearance required to remove bowl

ISO Symbol



Models

F07 SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size	Flow SCFM* (dm³/s)
		1/8"	19 (9)
F07-200-A1TA	F07-200-M1TA	1/4"	24 (11.5)

Accessories

Wall mounting bracket	Replacement element (5 µm)	Replacement element (40 µm)
		
5939-06	3652-17	3652-18
5939-06	3652-17	3652-18

* Approximate flow at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



NORGREN
Express

ALE-29

MINIATURE, GENERAL PURPOSE UNITS

R07 and R46 Regulators

1/8" PTF, 1/4" PTF

R07 General purpose

Snap action knob locks pressure setting when pushed in

Standard relieving models allow reduction of outlet pressure even when the system is dead-ended

R46 Non-repairable

Wrench flats for easy installation

Relieving piston design allows reduction of downstream pressure when the system is dead-ended

Choice of left to right or right to left flow

TECHNICAL DATA

R07

Fluid:

Compressed air

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-34° to 150°F [-35° to 65°C] *

* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F).

R46

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

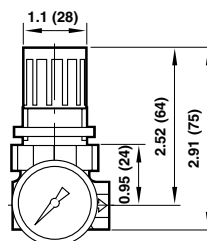
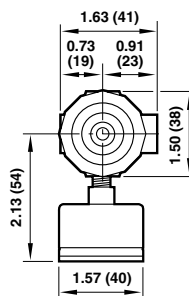
Operating temperature*:

-30° to 150°F [-34° to 65°C]

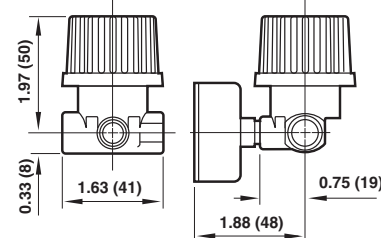
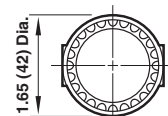
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).



R07



R46



ISO Symbol



Models

R07 SERIES	Port size PTF	Outlet pressure range	Flow SCFM* (dm³/s)
Model No.			



R07-100-RNEA	1/8"	5 to 50 psig [0.3 to 3.5 bar]	14 [6.5]
R07-100-RNKA	1/8"	5 to 100 psig [0.3 to 7 bar]	14 [6.5]
R07-200-RNEA	1/4"	5 to 50 psig [0.3 to 3.5 bar]	15 [7]
R07-200-RNKA	1/4"	5 to 100 psig [0.3 to 7 bar]	15 [7]



R46-200-RNLA	1/4"	5 to 125 psig [0.3 to 8.6 bar]	13 [6]
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Accessories

Neck mount bracket (incl. nut)	Mounting nut only plastic	Mounting nut only metal	Gauge 0 to 160 psig	Service kit**
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18-025-003	2962-89	2962-04	18-013-212	3407-02
18-025-003	2962-89	2962-04	18-013-212	3407-02
18-025-003	2962-89	2962-04	18-013-212	3407-02
18-025-003	2962-89	2962-04	18-013-212	3407-02



* Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

** Kit includes: Slip ring, diaphragm, standard valve seat, O-ring, valve and spring



MINIATURE, GENERAL PURPOSE UNITS

B07 Filter/regulator

1/8 PTF, 1/4 PTF



Filter-regulators for all general purpose pneumatic applications

High performance design provides high flow with minimum pressure drop

Non-rising adjusting knob has snap-action lock

Transparent bowl for 360° visibility

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure

150 psig (10 bar)

Operating temperature*

30° to 125°F [-34° to 50°C]

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F [2°C]

Particle removal

5 µm

Materials

Body: zinc

Bonnet: acetal

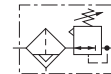
Valve seat: acetal

Transparent bowl: polycarbonate

Element: sintered polypropylene

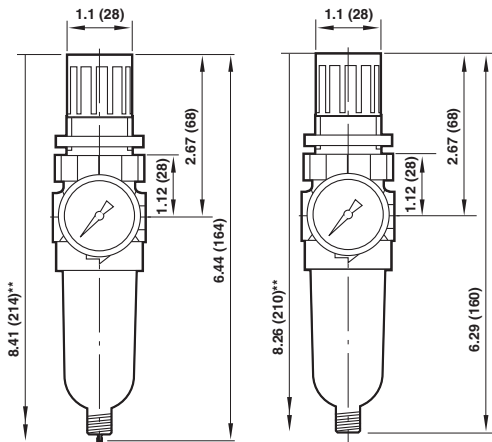
Elastomers: nitrile

ISO Symbol

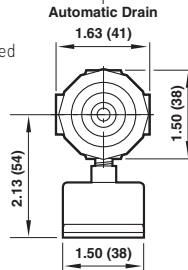


Manual drain

Auto drain



** Minimum clearance required to remove bowl



Models

B07 SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size	Flow SCFM* (dm³/s)
B07-101-A1KA	B07-101-M1KA	1/8"	13 (6.2)
B07-201-A1KA	B07-201-M1KA	1/4"	14 (6.5)

Accessories

Neck mount bracket (incl. nut)	Mounting nut only plastic	Mounting nut only metal	Gauge 0 to 160 psig	Replacement element (5µm)	Service kit**
18-025-003	2962-89	2962-04	18-013-212	3820-02	3820-12
18-025-003	2962-89	2962-04	18-013-212	3820-02	3820-12

* Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

** Kit includes: Slip ring, diaphragm, valve seat with O-ring, valve, valve spring, element, element gasket, bowl O-ring

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



NORGREN
Express

ALE-31

MINIATURE, GENERAL PURPOSE UNITS

F39 Oil removal (coalescing) filter

1/8" PTF, 1/4" PTF

Compact design

High efficiency oil and particle removal

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

150 psig (10 bar)

Operating temperature:*

-30° to 125°F (-34° to 50°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 2°C (35°F)

Aerosol oil removal:

Down to 0.01 µm

Air quality:

Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

Maximum remaining oil content of air leaving the filter: 0.01ppm at 70°F (21°C) with an inlet oil concentration of 17 ppm.

Maximum flow with 90 psig (6.3 bar) inlet pressure†:

1/8" ports, 6.0 scfm [2.8 dm³/s]

1/4" ports, 6.4 scfm [3 dm³/s]

†Maximum flow to maintain stated oil removal performance.

Nominal bowl size:

1 fluid ounce [31 ml]

Drain connection:

1/8" male pipe thread

Automatic drain operation:

Spitter type drain operates momentarily when a rapid change in air flow occurs or when the supply pressure is reduced.

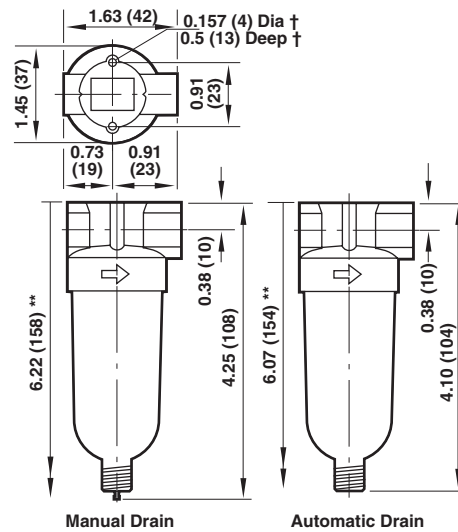
Materials

Body: Zinc

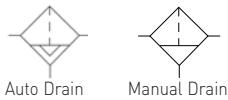
Bowl: Polycarbonate

Element: Synthetic fiber and polyurethane foam

Elastomers: Neoprene & nitrile



ISO Symbol



Models

F39 SERIES				
AUTO DRAIN	MANUAL DRAIN	Port size	Saturated flow	Dry flow
Model No.	Model No.	PTF	SCFM*[dm³/s]	SCFM*[dm³/s]



F39-100-A0TA	F39-100-M0TA	1/8"	6.0 [2.8]	11.2 [5.3]
F39-200-A0TA	F39-200-M0TA	1/4"	6.4 [3.0]	12.2 [5.8]

*Maximum flow at 90 psig [6.3 bar] inlet pressure to maintain stated oil removal performance.

Accessories

Wall mounting bracket	Service kit**
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5939-06	4141-10
5939-06	4141-10

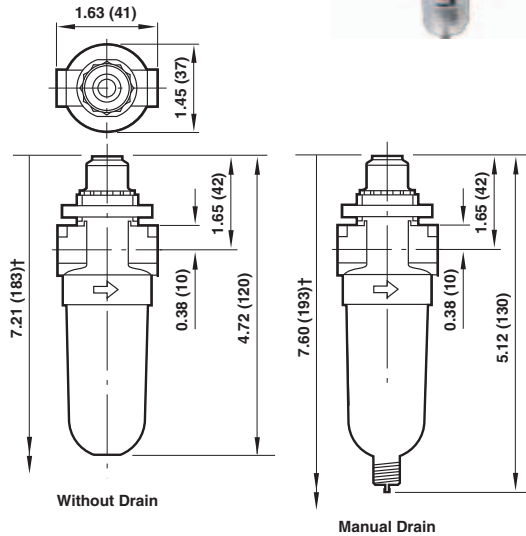
** Kit includes: Element, element O-ring, bowl O-ring



MINIATURE, GENERAL PURPOSE UNITS

L07 Lubricators

1/8" PTF, 1/4" PTF



†Minimum clearance required to remove bowl

Micro-fog lubricators provide a fine mist for most general purpose pneumatic applications
Transparent bowl for 360° visibility

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure

Transparent bowl: 150 psig (10 bar)

Operating temperature*

0° to 125°F (-20° to 50°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Start point (i.e. minimum flow required for lubricator operation): 0.5 scfm (0.24 dm³/s) at 90 psig (6.3 bar) inlet pressure

Nominal bowl size:

1 fluid ounce (31 ml)

Drain connection:

Will fit 1/8-27 and 1/8-28 pipe thread

Materials

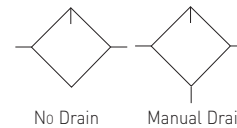
Body: Zinc

Bowl: Polycarbonate

Sight-feed dome: Transparent nylon

Elastomers: Neoprene & nitrile

ISO Symbol



No Drain

Manual Drain

Models

L07 SERIES NO DRAIN Model No.	MANUAL DRAIN	Port size PTF	Flow SCFM* (dm ³ /s)
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Accessories

Neck mounting bracket	Mounting nut (plastic)	Mounting nut (metal)	Sight feed dome	Service kit**
-----------------------------	------------------------------	----------------------------	-----------------------	------------------



L07-100-MPQA	L07-100-MPAA	1/8"	10 (5)	18-025-003	2962-89	2962-04	4055-50	3795-03
L07-200-MPQA	L07-200-MPAA	1/4"	14 (6.7)	18-025-003	2962-89	2962-04	4055-50	3795-03

*Typical flow with 98 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop

** Kit includes: O-ring, seal, bowl O-ring

Service – Quality – Delivery

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NORGREN
Express

ALE-33

MINIATURE, GENERAL PURPOSE UNITS

V07 Pressure relief valve – Diaphragm type

1/8" PTF, 1/4" PTF

**Protect compressed air systems
from over-pressurisation**

Norgren pressure relief valves comply with category O(S.E.P.)
and category 1 of the Pressure Equipment Directive 97/23/EC.

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-30° to 150°F [-34° to 65°C] *

*Air supply must be dry enough to avoid
ice formation at temperatures below 35°F (2°C).

Gauge ports:

1/8" PTF

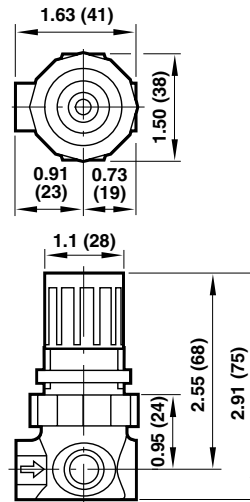
Materials:

Body: Zinc

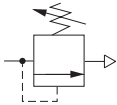
Bonnet: Acetal

Valve seat: Polyphenylene

Elastomers: Nitrile



ISO Symbol



Models

V07 SERIES		Accessories			
Model No.	Port size	Neck mounting bracket	Silencer	Gauge 0 to 160 psig	Service kit*
					
V07-100-NNKG	1/8" PTF	18-025-003	MB001A	18-013-212	3439-11
V07-200-NNKG	1/4" PTF	18-025-003	MB001A	18-013-212	3439-11

* Kit includes: Valve seat and valve seat seal



MAINLINE, GENERAL PURPOSE UNITS

F17 filter

3/4" PTF to 1-1/2" PTF port sizes

Screw-on bowl reduces maintenance time

Can be serviced without the use of tools or removal from the air line

Protects air operated devices by removing liquid and solid contaminants

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature:*

-30° to 175°F [-34° to 80°C]

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F [2°C]

Oil aerosol removal:

40 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Nominal bowl size:

1 quart (1 liter)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread.

Materials

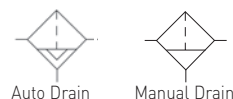
Body: Aluminum

Bowl: Aluminum

Bowl sight glass: Pyrex

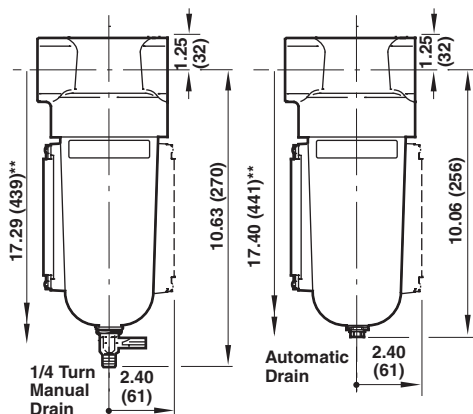
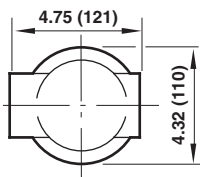
Elastomers: Neoprene and nitrile

ISO Symbol



Auto Drain

Manual Drain

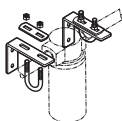


Models

F17 SERIES AUTO DRAIN	MANUAL DRAIN	Port size PTF	Flow SCFM* (dm³/s)	Element**
Model No.	Model No.			
				
F17-600-A3DA	F17-600-M3DA	3/4"	325 [153]	40 µm
F17-800-A3DA	F17-800-M3DA	1"	425 [201]	40 µm
F17-A00-A3DA	F17-A00-M3DA	1-1/4"	425 [201]	40 µm
F17-B00-A3DA	F17-B00-M3DA	1-1/2"	425 [201]	40 µm

* Typical flow with a 40 µm element at 90 psig [6.3 bar] inlet pressure and 5 psig [0.35 bar] pressure drop.

Accessories Service Kit^{††}

Wall mounting bracket	Service kit ^{††}	Replacement element (40 µm)**	Replacement element (5 µm)**
			
6212-50	5578-05	5311-03	5311-01
6212-50	5578-05	5311-03	5311-01
6212-51	5578-05	5311-03	5311-01
6212-50	5578-05	5311-03	5311-01

** Filter elements are sintered bronze

†† Kit includes: Bowl O-ring, drain gasket, element gasket

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



NORGREN
Express

ALE-35

MAINLINE, GENERAL PURPOSE UNITS

F18 General purpose filters

1/2" PTF, 2" PTF

Direct ported filter with high water removal efficiency

High flow with minimal pressure drop

Highly visible prismatic liquid level indicator lens

Two gauge ports on top of the body for installation of pressure gauges

Can be dissassembled without removal from the airline



TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

-30° to 175°F (-34° to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal:

40 µm filter element

Air quality:

Within ISO 8573-1, Class 3 and Class 5 (particulates)

Materials

Body: Aluminum

Intermediate body: Aluminum

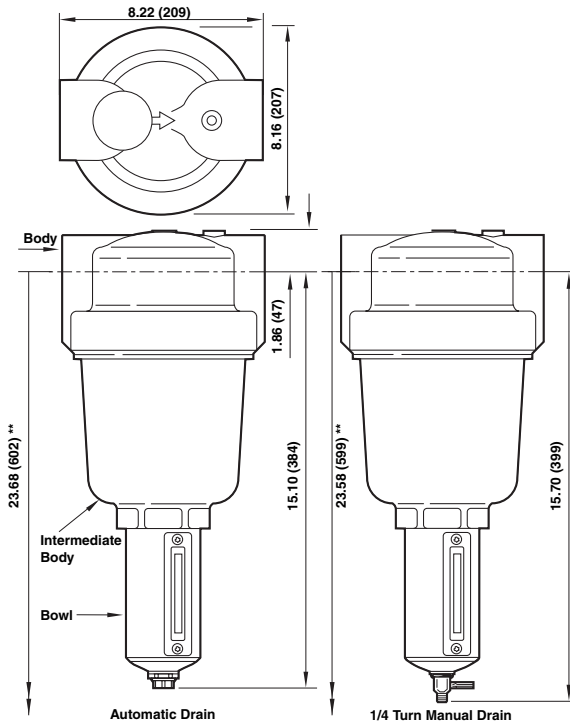
Bowl: Aluminum

Metal bowl liquid level indicator: Transparent nylon

Filter element: Sintered bronze

Elastomers: Neoprene and nitrile

ISO Symbol



** Minimum clearance required to remove bowl

Models

F18 SERIES	Port size	Flow SCFM*	Element size	Bowl
AUTO DRAIN	1/2" PTF	1400 (661)	40 µm	Metal
MANUAL DRAIN	2" PTF	1400 (661)	40 µm	Metal



Accessories

Element	Service kit*
---------	--------------



F18-B00-A3DA	F18-B00-M3DA	1-1/2"	1400 (661)	40 µm	Metal	5882-13	5945-50
F18-C00-A3DA	F18-C00-M3DA	2"	1400 (661)	40 µm	Metal	5882-13	5945-50

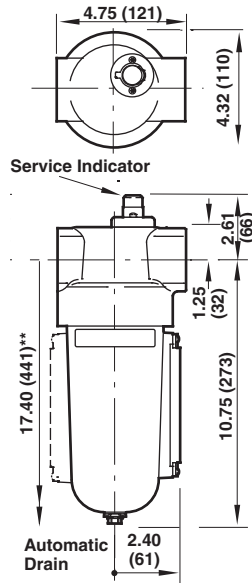
* Kit includes: seal and gasket



MAINLINE, GENERAL PURPOSE UNITS

F46 Oil removal (Coalescing) filter

3/4" PTF, 1" PTF, 1-1/4" PTF



High efficiency oil and particle removal

Standard service indicator turns from green to red when the filter element needs to be replaced

NOTE: Install an F17 filter with a 5 µm filter element upstream of the F46 filter for maximum service life.

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

-30° to 150°F (-34° to 65°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Oil aerosol removal:

Down to 0.01 µm

Air quality:

Within ISO 8573-1, Class 1 (particulates) and Class 2 (oil content)

Maximum remaining oil content in outlet air:

0.01ppm at 70°F (20°C) with an inlet oil concentration of 17 ppm.

Nominal bowl size:

1 quart US (1 liter)

Manual drain connection:

Will fit 1/8-27 and 1/8-28 male pipe thread.

Automatic drain connection:

Will fit 1/8-27 and 1/8-28 female pipe thread. - Flexible tube with 3/16" (5mm) minimum I.D. can be connected to the automatic drain. Drain may fail to operate if the tube I.D. is less than 3/16" (5mm). Avoid restrictions in the tube.

Materials

Body: Aluminum

Bowl: Aluminum

Bowl sight glass: Pyrex

Elastomers: Neoprene and nitrile

Filter element: Synthetic fiber and polyurethane foam

ISO Symbol



Auto Drain

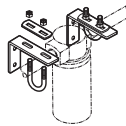
Models

F46 SERIES Model No.	Port size PTF	Flow SCFM* (dm³/s)
F46-601-A0DA	3/4"	90 [42]
F46-801-A0DA	1"	125 [59]
F46-A01-A0DA	1-1/4"	125 [59]



Accessories

Wall mounting bracket	Sight feed dome	Service kit*
6212-50	5797-50	5351-04
6212-50	5797-50	5351-04
6212-51	5797-50	5351-04



* Maximum flow for oil-saturated element at 90 psig (6.3 bar) inlet pressure to maintain stated oil removal performance.

* Kit includes: Coalescing element, element O-ring, bowl O-ring, drain gasket

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



NORGREN
Express

ALE-37

MAINLINE, GENERAL PURPOSE UNITS

R17 Regulator

3/4" PTF, 1" PTF, 1-1/4" PTF, 1-1/2" PTF

Accurate and quick response to changes in flow demand and line pressure variations

Balanced valve minimizes effect of changes in inlet pressure on outlet pressure

Standard relieving models allow reduction of outlet pressure even when the system is dead-ended

Full flow gauge ports

Low torque, non-rising adjusting knob

Integral locking device on knob adjustment

Can be serviced without removal from the air line

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

300 psig (20 bar)

Operating temperature:

-30° to 175°F [-34° to 80°C]*

* Air supply must be dry enough to avoid ice formation at temperatures 35°F [2°C].

Gauge ports:

1/4" PTF with PTF main ports

Materials

Body: Aluminum

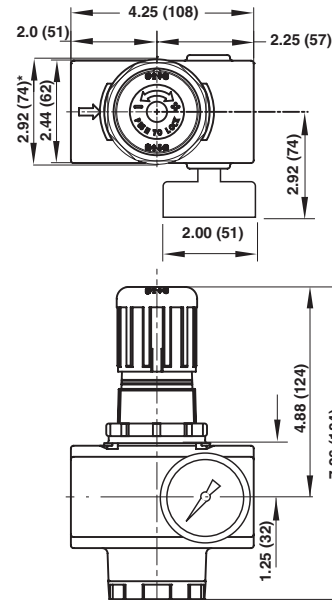
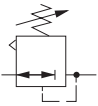
Bonnet: Aluminum

Bottom plug: Acetal

Valve: Aluminum and nylon

Elastomers: Nitrile

ISO Symbol



Panel mounting hole diameter: 2.28" (58 mm)

Panel thickness: 0.06" to 0.16" (2 to 4 mm)

*OD of panel mount nut. Nut not included

Models

R17 REGULATORS Model No.	Port size PTF	Flow SCFM* (dm³/s)	Outlet pressure adjustment range PSIG (bar)	Operation
R17-600-RNLA	3/4"	440 [208]	5 to 125 [0.3 to 8.5]	Relieving
R17-800-RNLA	1"	480 [227]	5 to 125 [0.3 to 8.5]	Relieving
R17-A00-RNLA	1-1/4"	400 [189]	5 to 125 [0.3 to 8.5]	Relieving
R17-B00-RNLA	1-1/2"	440 [208]	5 to 125 [0.3 to 8.5]	Relieving

Accessories

Gauge 0 to 160 psig	Tamper resistant cover and seal wire	Panel mount nut	Panel mount bracket with nut	Service kit*
18-013-209	4355-51	5226-97	5570-04	5578-02
18-013-209	4355-51	5226-97	5570-04	5578-02
18-013-209	4355-51	5226-97	5570-04	5578-02
18-013-209	4355-51	5226-97	5570-04	5578-02

* Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

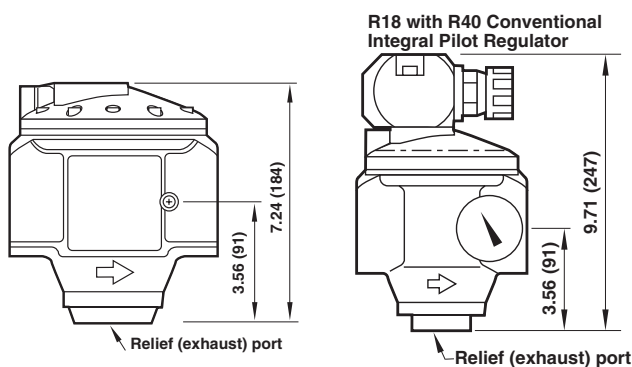
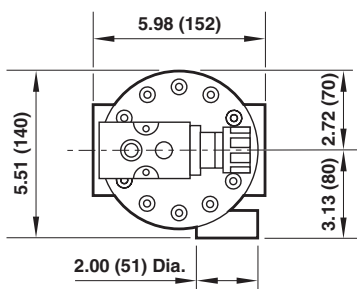
* Kit includes: Diaphragm, O-rings, valve, valve spring



MAINLINE, GENERAL PURPOSE UNITS

R18 Series Pilot operated regulators

1-1/2" PTF, 2" PTF



The R18 remote pilot operated regulator can be installed at any point in the compressed air system without regard to accessibility – pilot regulator can be installed in the most convenient location

The R18 with conventional integral pilot enables easy pressure adjustment at the regulator

Balanced valve minimises effect of changes in inlet pressure on outlet pressure

Constant bleed feature in pilot regulator provides quick response and minimum dead-band

Exceptionally high relief flow

TECHNICAL DATA

Fluid:

Compressed air

Inlet pressure range:

10 to 450 psig (0.7 to 31 bar)

Operating

temperature:

-30°F to 175°F (-34°C to 80°C)

ISO Symbol



Models

R18 REMOTE PILOT Model No.	Port size PTF	Flow SCFM* (dm³/s)	Operation	Adjustment method
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R18-B00-RNXX	1-1/2"	2000 (944)	Relieving	Remote pilot
R18-C00-RNXX	2"	2000 (944)	Relieving	Remote pilot

R18 INTEGRAL PILOT Model No.	Port size	Flow SCFM* (dm³/s)	Outlet pressure PSIG (bar)	Operation	Adjustment method
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R18-B05-RNLA	1-1/2"	2000 (944)	5 to 125 (.3 to 3.5)	Relieving	Integral pilot
R18-C05-RNLA	2"	2000 (944)	5 to 125 (.3 to 3.5)	Relieving	Integral pilot

Accessories

Gauge 0 to 160 psig	Service kit**
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18-013-209	5945-40
18-013-209	5945-40

Gauge 0 to 160 psig	
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18-013-209	5945-40
18-013-209	5945-40

* Typical flow with a 40 µm element at 90 psig (6.3 bar) inlet pressure and 5 psig (0.35 bar) pressure drop.

** Kit includes: Filter screen, and all O-rings

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



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ALE-39

MAINLINE, GENERAL PURPOSE UNITS

L17 Lubricators

3/4" PTF to 1-1/2" PTF

Screw-on bowl reduces maintenance time

Can be disassembled without the use of tools or removal from the air line

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature*:

0° to 175°F (-20° to 80°C)

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Start point (minimum flow required for lubricator operation):

8 scfm (3.8 dm³/s) at 90 psig (6.3 bar) inlet pressure

1" ports: 275 scfm (130 dm³/s)

Nominal reservoir size

1 quart US (1 liter)

Manual drain connection fit 1/8-27 and 1/8-28 pipe thread

Materials

Body: Aluminum

Reservoir: Aluminum

Reservoir sight glass: Pyrex

Sight-feed dome

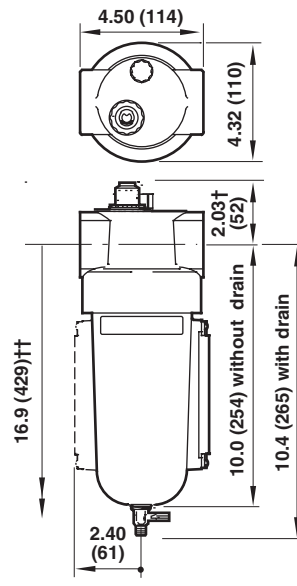
Standard: Transparent nylon

Elastomers: Neoprene and nitrile

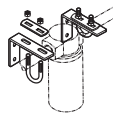
ISO Symbol



L17 Micro-Fog



Models

L17 LUBRICATORS MANUAL DRAIN Model No.*	Port size PTF	Flow SCFM** (dm ³ /s)	Wall mounting bracket	Sight feed dome	Fill plug	Service kit†
						
L17-600-MPDA	3/4"	160 (76)	6212-50	4055-50	5301-52	5771-02
L17-800-MPDA	1"	275 (130)	6212-50	4055-50	5301-52	5771-02
L17-A00-MPDA	1-1/4"	275 (130)	6212-51	4055-50	5301-52	5771-02
L17-B00-MPDA	1-1/2"	275 (130)	6212-51	4055-50	5301-52	5771-02

* Models must not be located downstream of frequently cycling directional control valves.

** Typical flow with 90 psig (6.3 bar) inlet pressure and a pressure drop of 5 psig (0.35 bar).

† Kit includes: O-rings, seals, gaskets



SPECIAL PURPOSE 'MICRO TROL'

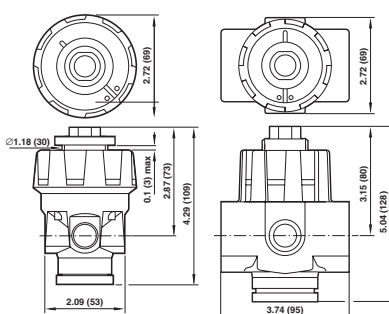
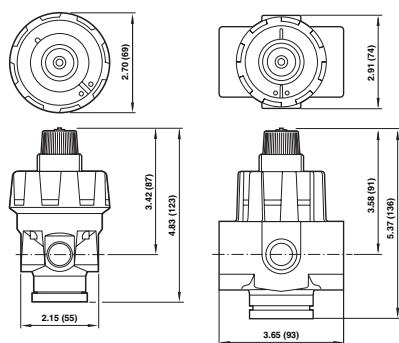
R24 High flow pressure regulator

1/4" PTF to 1-1/4" PTF

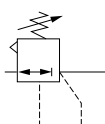


Manual

Air Pilot



ISO Symbol



Exceptionally high flow and relief flow characteristics

Easy to adjust even at high output pressures

Balanced valve minimizes effect of variations in inlet pressure on outlet pressure

Panel mounted facility

TECHNICAL DATA

Fluid:

Compressed air

Maximum inlet pressure:

300 psig (20 bar)

Operating temperature:

0° to 175°F (-20° to 80°C)*

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:

0.031 scfm (0.016 dm³/s) +

+Maximum bleed rate occurs under dead-end (no flow) conditions.

Port sizes:

Main	Gauge
1/4"	1/4"
3/8"	3/8"
1/2", 3/4", 1", 1-1/4"	1/2"

Materials

Body, top cap: Zinc

Main valve, adjusting screw: Brass

Pilot valve, relief valve: Acetal

Elastomers: Nitrile

Bottom Plug: Acetal

Models

R24 SERIES Model No.	Port size PTF	Outlet pressure range PSIG (bar)	Operation method	Adjustment
R24-200-RNLA	1/4"	10 to 125 (0.7 to 8)	Relieving	Manual - Knob
R24-201-RNXX	1/4"	NA	Relieving	Air Pilot
R24-300-RNLA	3/8"	10 to 125 (0.7 to 8)	Relieving	Manual - Knob
R24-301-RNXX	3/8"	NA	Relieving	Air Pilot
R24-400-RNLA	1/2"	10 to 125 (0.7 to 8)	Relieving	Manual - Knob
R24-401-RNXX	1/2"	NA	Relieving	Air Pilot
R24-600-RNLA	3/4"	10 to 125 (0.7 to 8)	Relieving	Manual - Knob
R24-601-RNXX	3/4"	NA	Relieving	Air Pilot
R24-800-RNLA	1"	10 to 125 (0.7 to 8)	Relieving	Manual - Knob
R24-801-RNXX	1"	NA	Relieving	Air Pilot
R24-A00-RNLA	1-1/4"	10 to 125 (0.7 to 8)	Relieving	Manual - Knob
R24-A01-RNXX	1-1/4"	NA	Relieving	Air Pilot

Accessories

Neck mounting bracket	Gauge adaptor	Gauge 0 to 160 psig	Service kit*
18-999-412	na	18-013-209	5292-52
18-999-412	na	18-013-209	5292-54
18-999-412	5950-01	18-013-209	5292-52
18-999-412	5950-01	18-013-209	5292-54
18-999-412	2339-04	18-013-209	5292-52
18-999-412	2339-04	18-013-209	5292-54
18-999-412	2339-04	18-013-209	5292-53
18-999-412	2339-04	18-013-209	5292-55
18-999-412	2339-04	18-013-209	5292-53
18-999-412	2339-04	18-013-209	5292-55
18-999-412	2339-04	18-013-209	5292-53
18-999-412	2339-04	18-013-209	5292-55

* Kit includes: Seats, main valve, spring



Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com

NORGREN
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ALE-41

PRECISION REGULATOR 11-002 & 20AG

1/4", 3/8", 1/2", 3/4", 1" PTF

Large diaphragm provides accurate and quick response to changing flow demands and line pressure

Floating valve pin provides positive valve seating

Balanced valve minimizes effect of variations in inlet pressure on outlet pressure

Standard relieving models allow reduction of downstream pressure when the system is dead-ended

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

400 psig (28 bar)

Operating temperature*:

-30° to 175°F (-34° to 80°C)

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C)

Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set:

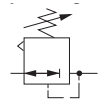
1/4" and 3/8" ports: 60 scfm (28 dm³/s)

1/2" ports: 200 scfm (95 dm³/s)

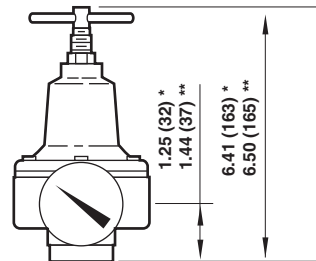
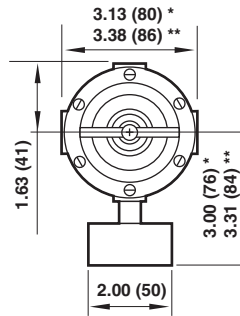
Gauge ports

1/8" PTF with PTF main ports

ISO Symbol



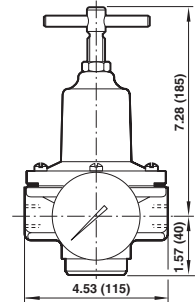
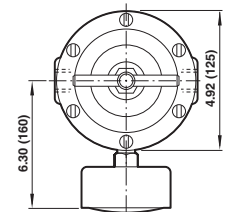
11-002



* Regulators with 1/4" and 3/8" ports.
** Regulators with 1/2" ports.



20AG



Models

11-002 and 20AG Model No.	Port size PTF	Flow SCFM* (dm ³ /s)†	Operation method	Outlet Pressure Adjustment Range PSIG (bar)	Accessories Gauge 0 to 160 PSIG	Service kit†
11-002-013	1/4"	60 (30)	Relieving	5 to 125 (0.3 to 8.5)	18-013-212	529-03
11-002-037	3/8"	60 (30)	Relieving	5 to 125 (0.3 to 8.5)	18-013-212	529-03
11-002-061	1/2"	200 (100)	Relieving	5 to 125 (0.3 to 8.5)	18-013-212	535-03
20AG-X6G/AH100	3/4"	160 (80)	Relieving	5 to 125 (0.3 to 8.5)	18-013-013	20AG-X8-100
20AG-X8G/AH100	1"	200 (100)	Relieving	5 to 125 (0.3 to 8.5)	18-013-013	20AG-X8-100

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.
*Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

† Kit includes: Diaphragm, valve, valve spring, O-rings



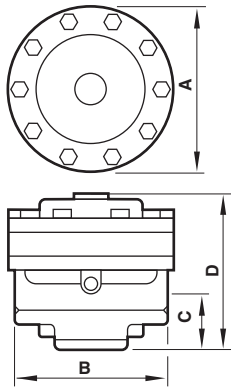
SPECIAL PURPOSE UNITS

Pilot operated regulators

11-008, 11-042, 1/2" PTF" to 1-1/4" PTF



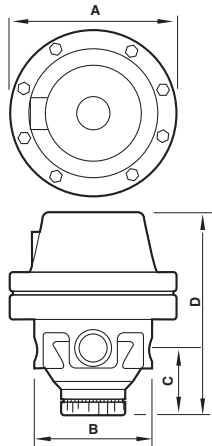
11-008



Port Size	A	B	C	D
1/2"	3.34 [85]	3.38 [86]	1.50 [38]	3.30 [84]
3/4", 1"	4.91 [125]	4.63 [118]	1.69 [43]	4.36 [111]



11-042



Port Size	A	B	C	D
1/4", 3/8", 1/2"	4.16 [106]	2.71 [69]	1.48 [38]	5.07 [129]
3/4", 1", 1-1/4"	4.16 [106]	3.65 [93]	1.86 [47]	5.97 [152]

Can be installed at any point in the compressed air system without regard to accessibility – pilot regulator can be installed in the most convenient location

Can be used with conventional or feedback pilot regulator

Feedback pilot regulator senses downstream pressure and automatically adjusts pilot operated regulator outlet pressure

TECHNICAL DATA

Fluid:

Compressed air

Inlet pressure range:

10 to 400 psig (0.7 to 27.6 bar)

Operating temperature:

0°F to 175°F (-20°C to 80°C) **

**Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Materials

Body: Zinc

Bonnet: Aluminum

Valve: Brass

Elastomers: Nitrile

ISO Symbol



Models

11-008 SERIES	Port size PTF	Flow SCFM* (dm³/s)	Operation
Model No.			



11-008-130	1/2"	70 [33]	Relieving
11-008-009	3/4"	110 [52]	Relieving
11-008-110	1"	180 [85]	Relieving

Accessories

Wall mounting bracket	Gauge 0 to 160 psig	Service kit**
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18-001-027	18-013-212	695-01
18-001-027	18-013-212	696-01
18-001-027	18-013-212	696-01

** Kit includes: Diaphragm, valve, O-rings

11-042 SERIES	Port size PTF	Flow SCFM* (dm³/s)	Operation
Model No.			



11-042-001	1/4"	120 [57]	
11-042-002	3/8"	120 [57]	
11-042-003	1/2"	120 [57]	
11-042-007	3/4"	300 [142]	
11-042-008	1"	300 [142]	
11-042-009	1-1/4"	300 [142]	

Wall mounting bracket	Gauge 0 to 160 psig	Service kit**
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18-001-027	18-013-212	4158-01
18-001-027	18-013-212	4158-01
18-001-027	18-013-212	4158-01
18-001-027	18-013-212	4158-02
18-001-027	18-013-212	4158-02
18-001-027	18-013-212	4158-02

** Kit includes: Filter screen, diaphragm, O-rings

* Typical flow with 100 psig (0.7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 5 psig (0.35 bar) from set.



Service – Quality – Delivery

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ALE-43

PILOT REGULATORS

Conventional and Feedback Pilot regulators

R40, R41 1/4" PTF

Pilot regulators are used to control the outlet pressure of a pilot operated regulator (ordered separately)

R41 can be close coupled to a 2" R18 pilot regulator

Conventional pilot regulator provides good pressure regulation, rapid response to changing flow demands, and excellent stability.

Feedback pilot regulator provides superior pressure regulation under changing flow demands where changes in flow demand are not sudden or cyclic.

Constant bleed feature provides maximum sensitivity to system changes



TECHNICAL DATA

Fluid:

Compressed air

Inlet pressure range:

10 to 450 psig (0.7 to 31 bar) maximum

Operating temperature:

0°F to 175°F (-20°C to 80°C)**

** Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:

0.25 scfm (0.12 dm³/s)†

†Maximum bleed rate occurs under dead-end (no flow) conditions.

Pilot ports:

1/4" PTF

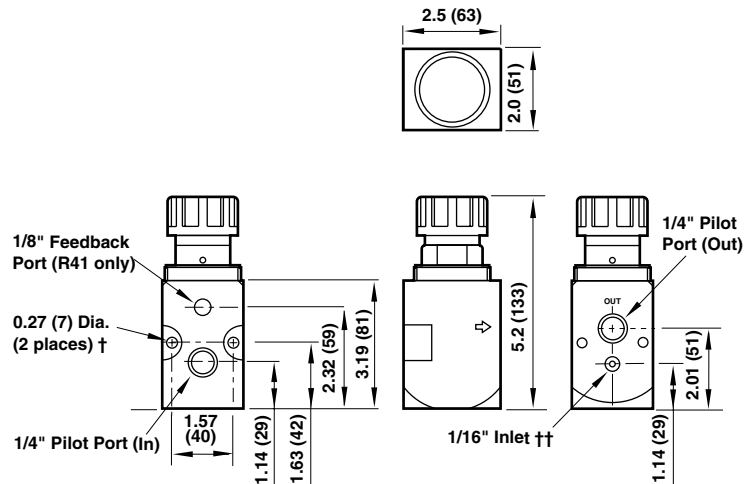
R41 feedback port: 1/8" PTF

Materials

Body, bonnet: Aluminum

Valve: Teflon

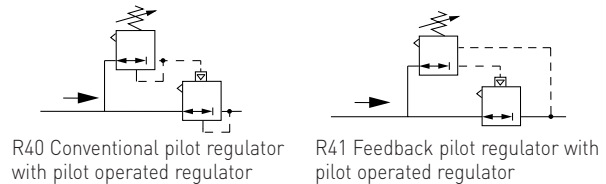
Elastomers: Nitrile



† Mounting holes for subbase mounting.

†† Air inlet for subbase mounting.

ISO Symbol



Models

R40 AND R41 SERIES	Port size	Outlet pressure adjustment range	FLOW SCFM* (dm³/s)
Model No. Type	PTF	PSIG (bar)	

Accessories

Wall mounting bracket	Mounting nut (plastic)	Mounting nut (metal)	Service kit†
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R40-200-BNSA	Conventional pilot	1/4"	10 to 250 (0.7 to 17)	1.66 (0.75)	5203-06	5191-89	5191-88	5945-41
R41-204-BNSA	Feedback pilot	1/4"	10 to 250 (0.7 to 17)	1.66 (0.75)	5203-06	5191-89	5191-88	5945-41

* Typical flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.

** Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar). Use the 11-104 feedback pilot regulator at those pressures.

† Kit includes: Diaphragm, valve, valve spring, guide bushing, filter screen, all O-rings



SPECIAL PURPOSE UNITS

Pilot operated regulators

20AL, 11-400, 11-104 1/4" PTF

Feedback pilot regulators give more sensitive control and quicker reaction to downstream pressure changes.

Feedback 'sensing' line to be kept to minimum length (<200mm).

TECHNICAL DATA

20AL and 11-400

Fluid:

Compressed air filtered to 5µm

Maximum inlet pressure:

360 psig (25 bar)

Operating temperature:

0° to 175°F (-20° to 80°C) *

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Typical flow: with 100 psig (7 bar) inlet pressure, 23 psig (1.6 bar) set pressure and 1.5 psig (0.1 bar) droop from set: 4.2 scfm (2 dm³/s)

11-104

Fluid:

Compressed air

Inlet pressure range:

10 psig (0.7 bar) to 400 psig (27.6 bar) maximum

Operating temperature:

0 to 175°F (-20° to 80°C) *

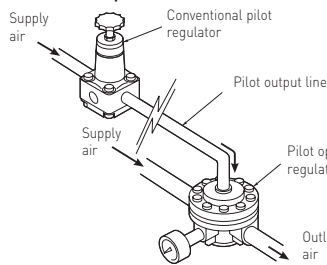
* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Maximum bleed rate at 50 psig (3.5 bar) outlet pressure:

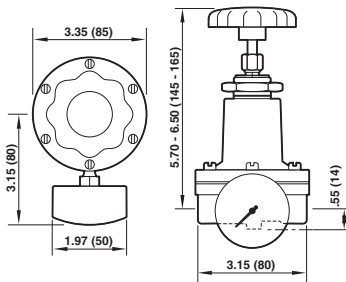
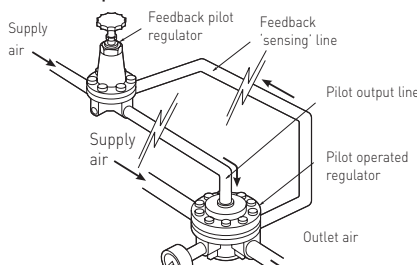
0.25 scfm (0.12 dm³/s)†

†Maximum bleed rate occurs under dead-end (no flow) conditions.

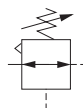
Conventional pilot



Feedback pilot



ISO Symbol



Models – Conventional Pilot Regulators

11-400, 20AL SERIES Model No.	Port size PTF	Outlet pressure adjustment range PSIG (bar)	Operation	Mounting option
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11400-2G/AC103	1/4"	1 to 30 [0.06 to 2]	Relieving	Panel/Bracket
11400-2G/AE103	1/4"	1 to 60 [0.06 to 4]	Relieving	Panel/Bracket
11400-2G/AG103	1/4"	2 to 100 [0.16 to 7]	Relieving	Panel/Bracket
20AL-X2G/AK103	1/4"	100 to 300 [7 to 20]	Relieving	Panel/Bracket

Accessories

Bracket	Gauge	Service kit*
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18-001-005	18-013-010	11400-100/20AL
18-001-005	18-013-011	11400-100/20AL
18-001-005	18-013-012	11400-100/20AL
18-001-005	18-013-014	11400-100/20AL

Models – Feedback Pilot Regulators

11-104 SERIES Model No.	Port size PTF	Outlet pressure adjustment range PSIG (bar)	Operation	Mounting option
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11-104-001	1/4"	5 to 105 [0.3 to 7]	Relieving	Panel/Bracket
11-104-002	1/4"	5 to 250 [3 to 17]	Relieving	Panel/Bracket

Bracket	Gauge	
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18-001-005	18-013-212	1970-11
18-001-005	18-013-205	1970-11

* Kit includes: Diaphragm assemblies, valve assembly, valve spring O-rings, valve seats for pilots



Service – Quality – Delivery

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ALE-45

PRECISION INSTRUMENT

Pressure regulator

11-018 1/4" PTF

Fast response

Minimum overshoot during flow changes

Constant bleed feature provides maximum sensitivity to system changes

Relieving feature allows reduction of downstream pressure when the system is dead-ended

TECHNICAL DATA

Fluid:

Compressed air

Note: 5 micron prefiltration and oil-free air required.

Inlet pressure range*

Low Pressure Models: 8 to 150 psig (0.55 to 10.3 bar)

High Pressure Models: 10 to 200 psig (0.7 to 13.8 bar)

* Inlet pressure must be at least 7 psig (0.5 bar) greater than the adjusted outlet pressure for proper operation.

Operating temperature**:

32° to 160°F (0° to 70°C)

** Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Repeatability

Low Pressure Models: 0.02 psig (0.001 bar) for flow change; 0.05 psig (0.004 bar) when turning supply off and on

High Pressure Models: 0.08 psig (0.006 bar) for flow change; 0.16 psig (0.011 bar) when turning supply off and on.

Constant bleed feature: Under dead-end conditions, a small, constant bleed of pilot air will escape thru the relief passage in the bottom plug. This will be accompanied by a slight residual outlet pressure of 1 to 4 inches H₂O (2.5 to 10 millibar).

Gauge ports:

1/4" PTF

Materials

Body and bonnet: Zinc

Main valve: Polycarbonate

Main valve seat: Teflon

Pilot valve: Stainless steel

Pilot valve seat: Aluminum

Main diaphragm: Nitrile

Pilot diaphragm

Bottom plug: Brass

Elastomers: Nitrile, neoprene, polyurethane

Models

11-018 Series	Port size PTF	Outlet pressure range* PSIG (bar)	Flow SCFM* (dm ³ /s)	Operation	Service kit ¶
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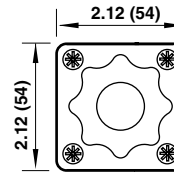


11-018-146	1/4"	0.4 to 10 psig (0.03 to 0.69)	12 [5.66]†	Relieving	2787-01
11-018-100	1/4"	1.0 to 60 psig (0.1 to 4.1)	12 [5.66]†	Relieving	2787-01
11-018-110	1/4"	3 to 150 psig (0.2 to 10.3)	12 [5.66]††	Relieving	2787-02

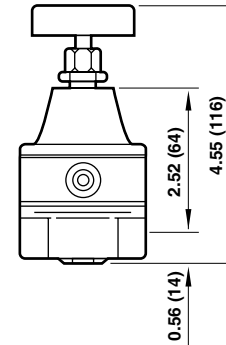
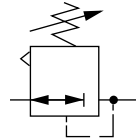
* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

† Typical flow with 100 psig (7 bar) inlet pressure, 60 psig (4.1 bar) set pressure and 0.125 psig (0.009 bar) droop from set.

†† Typical flow with 200 psig (14 bar) inlet pressure, 60 psig (4.1 bar) set pressure and 0.250 psig (0.017 bar) droop from set.



ISO Symbol



PRECISION INSTRUMENT

R38 Instrument Regulator and B38 Filter/Regulator

Compact instrument units with high performance

Stable regulation with temperature compensation

Excellent flow and regulation characteristics

Panel Mounting facility

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

290 psig (20 bar)

Operating temperature:

-40° to 175°F (-40° to 80°C) *

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Typical relief differential at 30 psig (2 bar) outlet pressure:

2.3 psig (0.16 bar)

Maximum bleed flow at 30 psig (2 bar) outlet pressure (relieving types only):

0.003 scfm (1.5 cm³/s)†

† Maximum bleed rate occurs under dead-end (no flow) conditions.

Gauge ports:

1/4 NPT

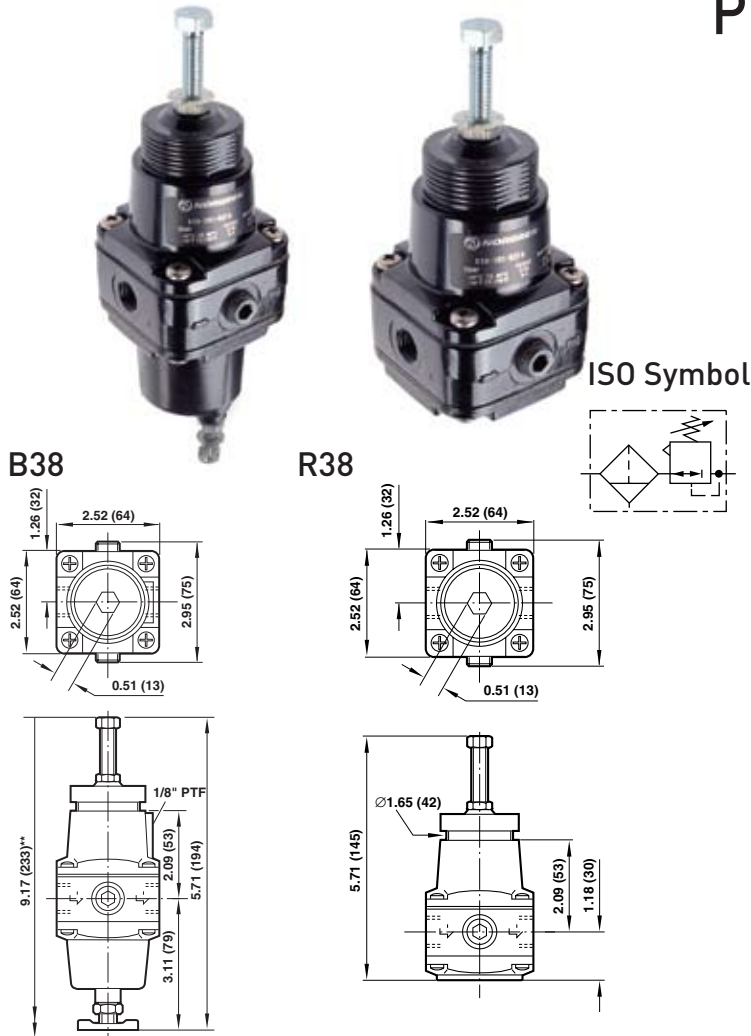
Materials

Body: Aluminum

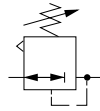
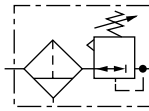
Bonnet: Aluminum

Adjusting screw: Steel

Elastomeric materials: Nitrile



ISO Symbol



Models

B38 Series Model No.	Port size PTF	Flow SCFM* (dm ³ /s)	Outlet Pressure adjustment range PSIG (bar)	Element
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B38-200-B1KA	1/4"	17 [8]	3.6 to 100 [0.25 to 7]	5 µm
B38-200-B2KA	1/4"	17 [8]	3.6 to 100 [0.25 to 7]	25 µm

* Typical flow 100 psig (7 bar) inlet pressure, 15 psig (1 bar) set pressure, and a droop of 1 psig (0.05 bar) from set.

Accessories

Panel mounting nut	Mounting bracket and nut	Replacement element	Service kit**
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5988-01	18-001-974	B38-100A (5)	R38-101-R
5988-01	18-001-974	B38-100A (5)	R38-101-R

** Kit includes: Diaphragm assembly, O-ring, valve, valve spring, 8 pan head screws

R38 Series Model No.	Port size PTF	Flow SCFM* (dm ³ /s)	Outlet Pressure adjustment range PSIG (bar)
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R38-200-RNCA	1/4"	17 [8]	0.6 to 30 [0.04 to 2]
R38-200-RNKA	1/4"	17 [8]	3.6 to 100 [0.25 to 7]

* Typical flow with 100 psig (7 bar) inlet pressure, 15 psig (1 bar) set pressure and 1 psig (0.05 bar) droop from set.

Panel mounting nut	Mounting bracket and nut
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5988-01	18-001-974
5988-01	18-001-974

** Kit includes: Diaphragm assembly, O-ring, valve, valve spring, 8 pan head screws

Service – Quality – Delivery

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ALE-47

STAINLESS STEEL PRECISION Regulator, and Filter/regulator

R38, B38 1/4" PTF

Designed for use in corrosive environments

Metallic parts meet NACE Standard MR-01-75*

Meets certain requirements of Military Specifications**

*National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.

** Meets certain requirements of MIL-S-901C (Navy) 15 Jan 1963: Military Specifications Shock Test H.I. (High Impact); Shipboard Machinery, Equipment and Systems and MIL-STD-167-1 (Ships) Military Standard Mechanical Vibrations of Shipboard Equipment.

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

450 psig (31 bar)

Operating temperature:

-40° to 175°F (-40° to 80°C)*

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal:

5 or 25 µm

Materials

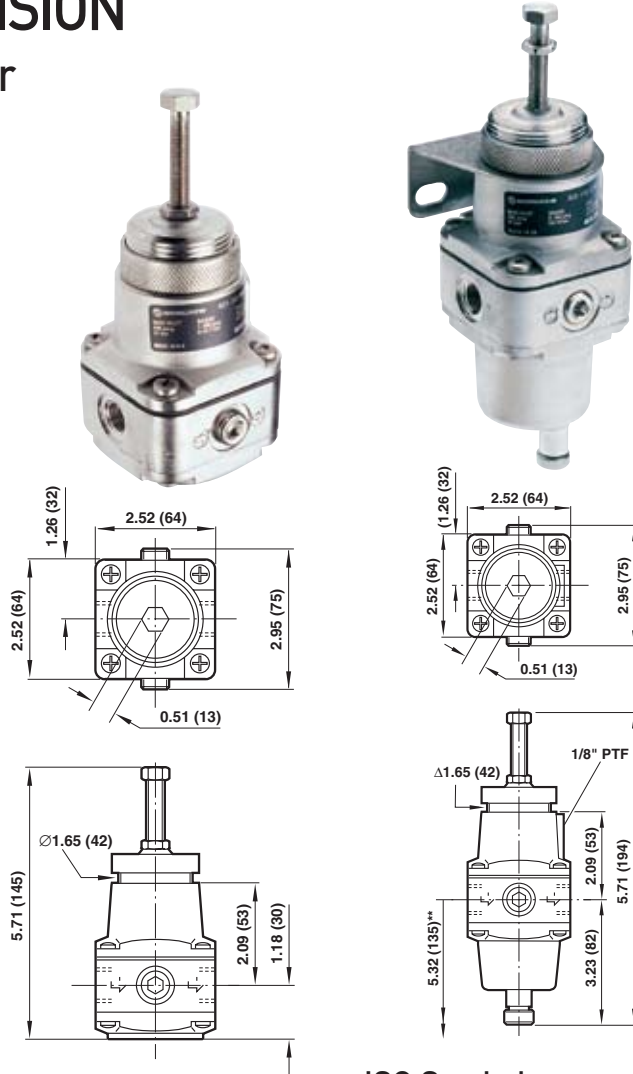
Body: Stainless steel

Bonnet: Stainless steel

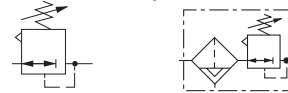
Adjusting screw: Stainless steel

Elastomeric materials: Nitrile

Elements: High density polyethylene



ISO Symbol



Models

R38 SERIES Model No.	Port size PTF	Outlet pressure range PSIG (bar)	Flow SCFM* (dm³/s)	Operation
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R38-240-RNCA	1/4"	0.58 to 29 (0.04 to 2)	17 (8)	Relieving
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B38 SERIES Model No.	Port size PTF	Outlet pressure range PSIG (bar)	Flow* SCFM (dm³/s)	Operation	Drain	Element
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B38-240-B1KA**	1/4"	4 to 100	17 (8)	Relieving	Manual	5 µm
B38-240-B2KA**	1/4"	4 to 125	17 (8)	Relieving	Manual	25 µm

Accessories

Neck mounting bracket & nut	Mounting nut	Gauge 0 to 85 psig	Handwheel	Service kitt
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18-001-973	5988-02	18-013-913	74630-04	R38-100R
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18-001-973	5988-02	18-013-909	74630-04	R38-100R
18-001-973	5988-02	18-013-909	74630-04	R38-100R

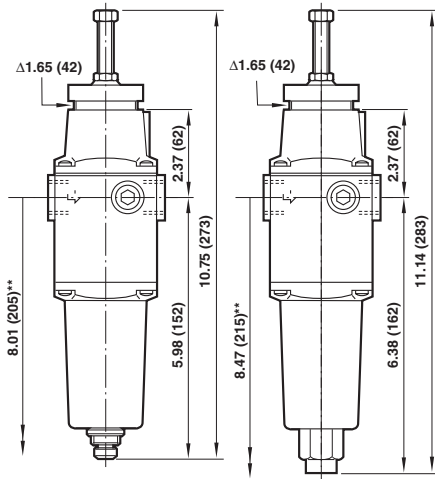
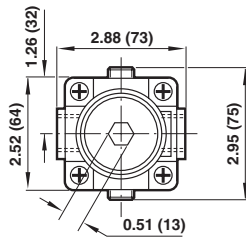
* Typical flow with 102 psi (7 bar) inlet pressure, 15 psi (1 bar) set pressure and 0.7 psi (0.05 bar) droop from set

** Mounting bracket not included † Kit includes: Diaphragm assembly, O-ring, valve, valve spring, 8 pan screws



STAINLESS STEEL GENERAL PURPOSE Filter/regulator

B38 1/2" PTF



Designed for use in corrosive environments

Metallic parts meet NACE Standard MR-01-75*

Meets certain requirements of Military Specifications**

*National Association of Corrosion Engineers (NACE) MR-01-75 defines requirements for sulphide stress cracking resistant materials used in well-head and other corrosive environments.

** Meets certain requirements of MIL-S-901C (Navy) 15 Jan 1963; Military Specifications Shock Test H.I. (High Impact); Shipboard Machinery, Equipment and Systems and MIL-STD-167-1 (Ships) Military Standard Mechanical Vibrations of Shipboard Equipment.

TECHNICAL DATA

Compressed air

Maximum pressure:

Manual drain: 450 psig (31 bar)

Automatic drain: 250 psig (17 bar)

Operating temperature:

-40° to 175°F [-40° to 80°C] *

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Particle removal:

5 or 25 µm filter element

Materials

Body: Stainless steel

Bonnet: Stainless steel

Bowl: Stainless steel

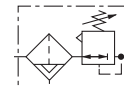
Adjusting screw: Stainless steel

Elements

5 and 25 µm: High density polyethylene

Elastomers: Nitrile

ISO Symbol



Models

B38 SERIES Model No.	Port size PTF	Outlet pressure range PSIG (bar)	Flow SCFM* (dm³/s)	Operation	Drain	Element size
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B38-440-A1LA	1/2"	4 to 125 [0.3 to 9]	106 [50]	Relieving	Automatic	5 µm
B38-440-A2LA	1/2"	4 to 125 [0.3 to 9]	106 [50]	Relieving	Automatic	25 µm
B38-440-M1LA	1/2"	4 to 125 [0.3 to 9]	106 [50]	Relieving	Manual	5 µm
B38-440-M2LA	1/2"	4 to 125 [0.3 to 9]	106 [50]	Relieving	Manual	25 µm

* Typical flow with 175 psig (12 bar) inlet pressure, 115 psig (8 bar) set pressure and 15 psig (1 bar) drop from set.

Accessories

Neck mounting bracket & nut	Panel mounting nut	Gauge 0 to 140 PSIG	Hand- wheel	Element kit	Service kit**
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** Kit includes: Element, seals, and screws



Service – Quality – Delivery

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ALE-49

STAINLESS STEEL GENERAL PURPOSE Filters, Regulators, Lubricators

F22, R22, L22 – 1/2" NPTF

Lloyds Register Type Approved

Materials meet NACE* recommendations
(MR-0175, 2002 revision)

25 µm filter element as standard

Orientable metal bowls with sightglasses

* National Association of Corrosion Engineers – recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments

TECHNICAL DATA

Medium:

Compressed air only

Maximum inlet pressure:

247 psig (17 bar) (F22, L22)

290 psig (20 bar) (R22)

Gauge ports:

1/4" PTF (R22)

Pressure range:

R22: 5 to 150 psig (0.4 to 10 bar)

Operation:

R22: Relieving

L22: Oil-fog

Start Point:

L22: 3 scfm at 90 psig inlet pressure (1.7 dm³/s at 6.3 bar)

Ambient temperature:

0°F to 175°F (-20°C to +80°C)

Consult our Technical Service for use below 35°F (+2°C)

F22 particle removal:

25 µm



ISO Symbol

F22



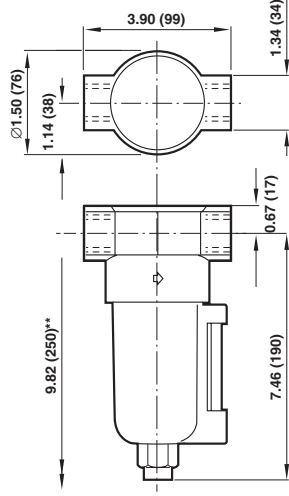
R22



L22



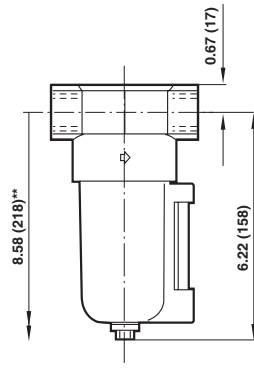
F22 Auto Drain



Automatic Drain

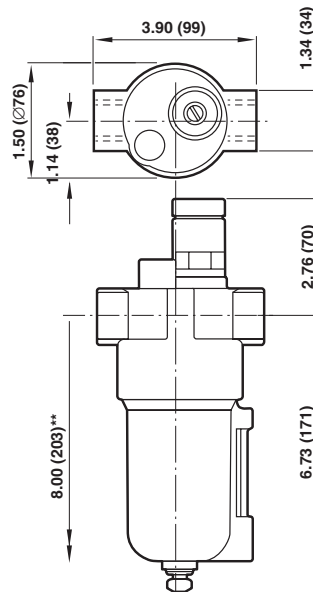
**Minimum clearance required to remove bowl.

F22 Manual Drain

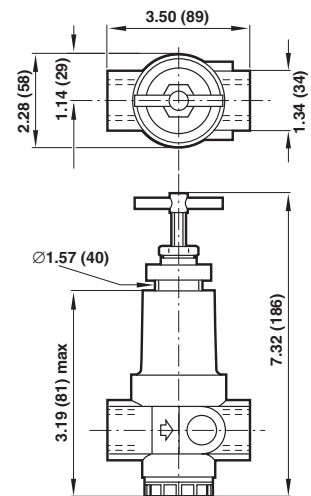


Manual Drain

L22



R22



** Minimum clearance required to remove bowl.

STAINLESS STEEL GENERAL PURPOSE Filters, Regulators, Lubricators

F22, R22, L22 – 1/2" NPTF

Models

Accessories

F22 SERIES AUTO DRAIN		MANUAL DRAIN	Port size PTF	Flow SCFM* (dm³/s)	Wall mounting bracket	Auto drain service kit**	Manual drain service kit**	
								
F22-400-A2DA		F22-400-M2DA	1/2"	98 (46)	18-001-962	F22-100A	F22-100M	
† Typical flow with element at 90 psig (6.3 bar) inlet pressure, and 5 psig (0.35 bar) pressure drop.						** Kit includes: O-rings, gaskets, specified filter element, drain strainer and cap		
R22 SERIES AUTO DRAIN			Port size PTF	Flow* (dm³/s)	Neck mounting bracket	Gauge** 0 to 150 psig	Wall mounting bracket	Service kit**
								
R22-401-RNMA			1/2"	50	18-001-959	18-013-909	18-001-962	R22-100R
** Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3) set pressure, and a 15 psig (1 bar) droop from set.						** Kit includes: Diaphragm assembly, O-ring, valve, valve spring		
L22 SERIES CLOSED BOTTOM		MANUAL DRAIN	Port size PTF	Flow SCFM* (dm³/s)	Wall mounting bracket	Service kit**		
								
L22-405-OP8A		L22-405-OPDA	1/2"	102 (48)	18-001-962	L22-100A		
† Typical flow with 90 psig (6.3 bar) inlet pressure and 7 psig (0.5 bar) pressure drop.						** Kit includes: Seals, check valve, ball and spring, sight dome, filter plug assemblies		

Service – Quality – Delivery

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ALE-51

STAINLESS STEEL GENERAL PURPOSE

Regulators and filter/regulator

R05, B05 – 1/4" PTF

Metallic parts meet NACE* recommendations

Miniature high corrosion resistant design

Adjusting knob has snap-action lock

Particularly suitable for marine, petro-chemical, food processing, medical, dental and similar applications

Panel mounting facility

* National Association of Corrosion Engineers - recognised oil-field recommendation for resistance to sulphide stress cracking common in well-head and other corrosive environments.

TECHNICAL DATA

Medium:

Compressed air only

Maximum inlet pressure:

300 psig (20 bar)

Gauge ports:

1/8" PTF

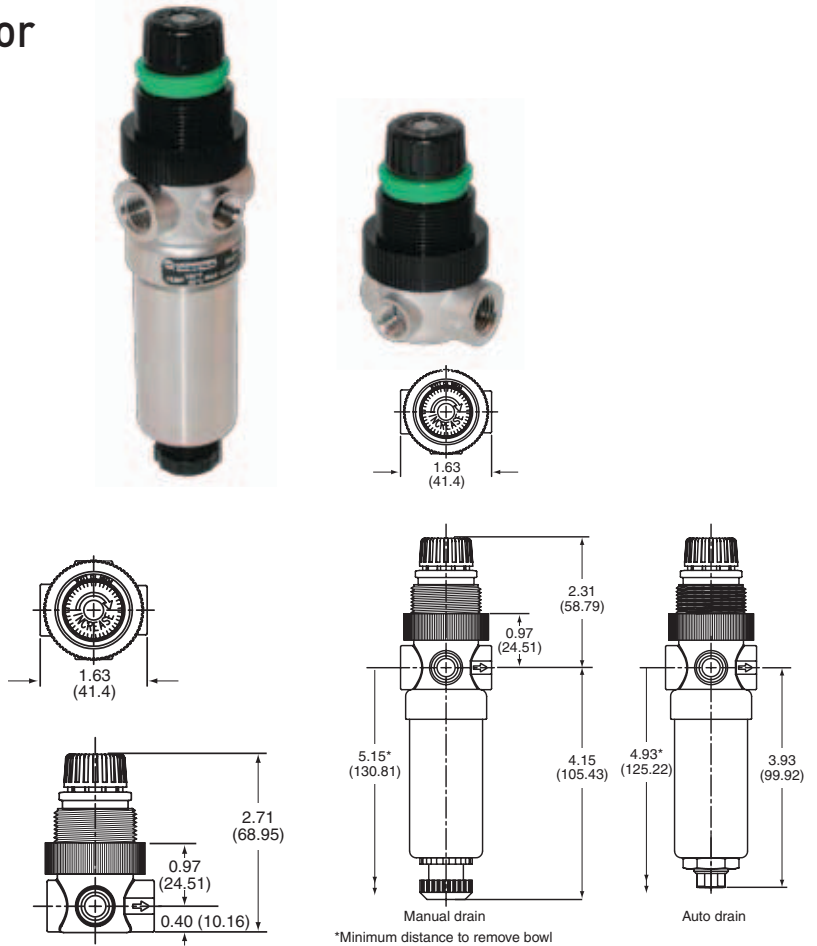
Ambient temperature:

-30°F to 150°F [-34°C to +66°C]*

*Consult our Technical Service for use below 35°F (+2°C)

B05 Particle removal:

5 µm



ISO Symbol



Models

B05 SERIES AUTO DRAIN Model No.	MANUAL DRAIN Model No.	Port size PTF	Flow SCFM* (dm³/s)	Gauge** 0 to 150 psig	Wall mounting bracket	Mounting nut	Replacement 5 µm filter element	Service kit†
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B05-233-A1LA	B05-233-M1LA	1/4"	15 [7]	18-013-844	18-025-003	2962-89	5726-04	3820-08
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† Kit includes: Diaphragm, seals, O-rings, valve

R05 SERIES Model No.	Outlet pressure adj. range psig (bar)	Port size PTF	Flow SCFM* (dm³/s)	Gauge** 0 to 150 psig	Wall mounting bracket	Mounting nut	Service kit†
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R05-200-RNEA	5 to 50 psig [0.3 to 3.5]	1/4"	15 [7]	18-013-844	18-025-003	2962-89	3407-71
R05-200-RNLA	5 to 125 psig [0.3 to 8.5]	1/4"	15 [7]	18-013-844	18-025-003	2962-89	3407-71

* Typical flow with 10 bar inlet pressure, 6,3 pressure and 1 bar drop from set

** Not NACE standard

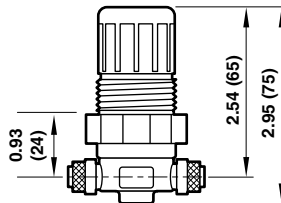
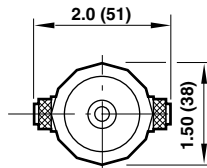
† Kit includes: Slip ring, diaphragm, valve seat with seal, valve, valve spring



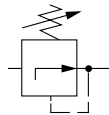
11-044 Pressure Regulator

Water and Compressed Air Service

1/4" Tube connection



ISO Symbol



Non-relieving models.

Acetal plastic, corrosion resistant construction

Low torque, non-rising adjusting knob.

Designed for use with deionized water and potable water systems. Plastic (not assembly) is NSF approved. All elastomers are CFR 21 FDA food and water contact compliant. Non-relieving models only.

TECHNICAL DATA

Fluid:

Water and compressed air

Maximum pressure:

250 psig (17 bar)

Operating temperature:

Water service: 35° to 150°F (2° to 66°C)

Air service: -30° to 150°F (-34° to 66°C) *

*When used in air service, air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Port connections:

1/4" OD tube (brass nut and plastic ferrule supplied)

Recommended tubing: 1/4" soft PVC or Polyethylene tubing. Avoid aluminum, copper, and hard plastic tubing.

Typical flow:

Compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 3.0 scfm (1.4 dm³/s)

Water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set: 0.7 U.S. gpm (2.65 liters per minute)

Materials

Body: Acetal

Bonnet: Acetal

Valve: Stainless steel with EPDM seal (CFR21 FDA food and water contact compliant)

Valve seat: Acetal

Diaphragm: Stainless steel and nitrile (CFR21 FDA food and water contact compliant)

Models

11-044 SERIES Model No.	Port connection	Outlet pressure adjustment† PSIG (bar)	Flow SCFM* (dm ³ /s)	Flow** U.S. gpm (lpm)
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11-044-001	1/4" tube nut and ferrule	1 to 10 [0.1 to 0.7]	3.0 [1.4]	0.7 [2.65]
11-044-003	1/4" tube nut and ferrule	5 to 100 [0.3 to 7]	3.0 [1.4]	0.7 [2.65]

* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

** Approximate flow with 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

† Outlet pressure can be adjusted to pressures in excess, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Accessories

Neck mounting bracket	Mounting nut	Service kitt††
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18-025-003	2962-89	3407-59
18-025-003	2962-89	3407-59

†† Kit includes: Slip ring, valve seat, valve, valve spring, and diaphragm



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ALE-53

Service – Quality – Delivery

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WATER/AIR REGULATOR

R06 Miniature brass 1/8", 1/4" PTF

Compact design, corrosion resistant construction

Brass body with choice of plastic or brass bonnet

Brass bonnet equipped with pressure adjusting screw

Non-relieving models for water and air service

TECHNICAL DATA

Fluid:

Water and compressed air

Maximum pressure:

400 psig (27 bar)

Operating temperature

Water service: 35° to 150°F (2° to 65°C)†

Air service: -30° to 150°F (-34° to 65°C) *†

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Typical flow for water service at 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a droop of 15 psig (1 bar) from set: 1.3 gpm (4.9 lpm)

Typical flow for compressed air service at 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a droop of 15 psig (1 bar) from set: 12 scfm (5.7 dm³/s)

Gauge ports:

1/8" PTF

Materials

Body: Brass

Bonnet

Standard: Acetal resin

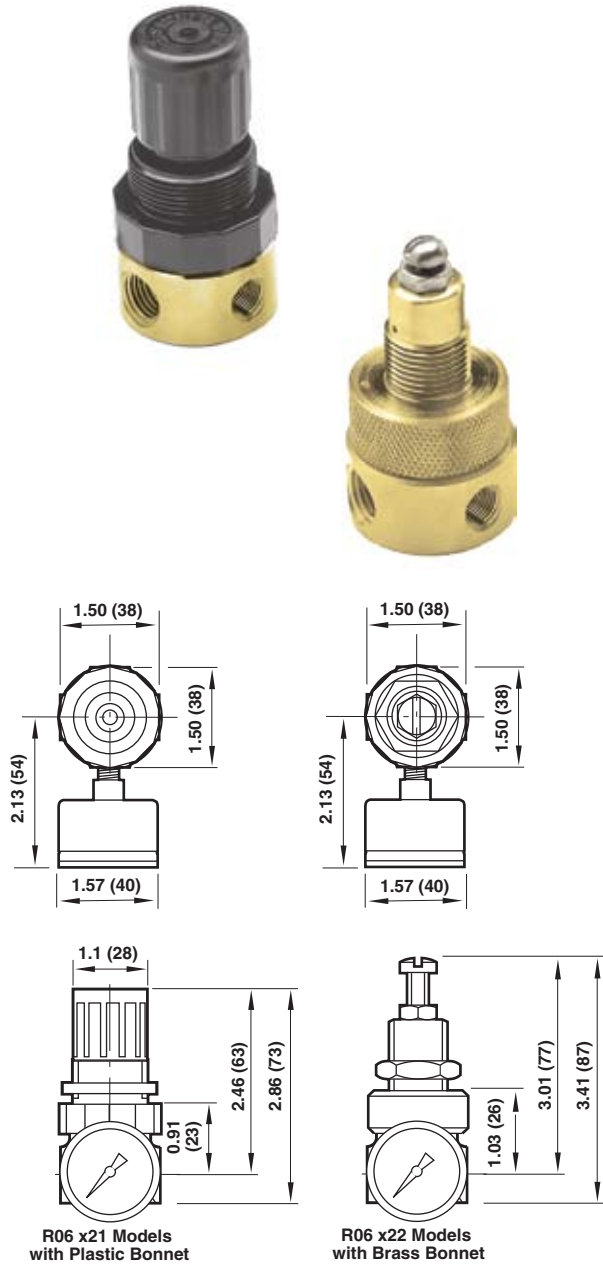
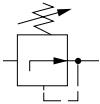
Optional: Brass

Valve: Brass/nitrile

Valve seat: Acetal resin

Elastomers: Nitrile

ISO Symbol



Models

R06 Series Model No.		Port size PTF	Flow* SCFM (dm3/s)	Flow** gpm (lpm)	Gauge† 0 to 160 PSIG	Service kit††
Plastic body	Brass body					
						
R06 121 NNKA	R06 122 NNKA	1/8"	12 [5.7]	1.3 [4.9]	18-013-212	3407-17
R06 221 NNKA	R06 222 NNKA	1/4"	12 [5.7]	1.3 [4.9]	18-013-212	3407-17

* Approximate flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and a 15 psig (1 bar) droop from set.

** Approximate flow with 100 psig (7 bar) inlet pressure, 60 psig (4 bar) set pressure and a 15 psig (1 bar) droop from set.

† Gauge for air use only.

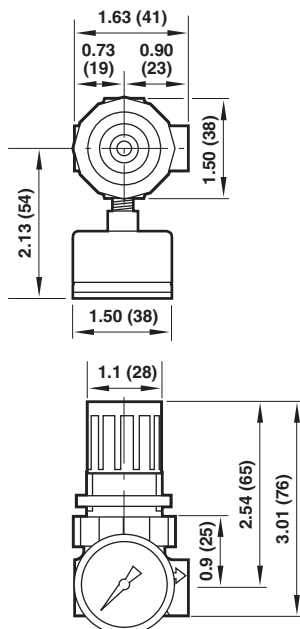


Accessories

†† Kit includes: Diaphragm, slip ring, standard valve seat with O-ring, valve spring.

WATER REGULATORS

R91 1/4" PTF



* Panel mounting hole diameter.
** Maximum panel thickness.

R91W: Use with deionized water and potable water systems. Plastic (not assembly) is NSF approved. All elastomers are CFR 21 FDA food and water contact compliant. Non relieving models only.

TECHNICAL DATA

Fluid

Potable water, deionized water

Maximum pressure:

150 psig (10 bar)

Operating temperature

Water service: 35° to 125°F (2° to 52°C)

Gauge ports:

1/8 PTF with PTF main ports

Materials

Body and bonnet: Acetal

Valve

Stainless steel/food grade EPDM

Valve seat: Acetal

Valve seat o-ring

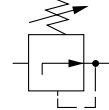
Food grade EPDM

Diaphragm

Acetal/nylon inserted nitrile, food grade

Gauge port plugs: Nylon

ISO Symbol



Models

R91 SERIES Model No.	Port size PTF	Outlet pressure adjustment range PSIG (bar)	Flow Flow SCFM* (dm³/s)	Flow gpm (lpm)
	1/4"	5 to 125 (0.3 to 8.6)	24 (11)	1.75 (6.6)

Accessories

Wall mounting bracket	Mounting nut	Service kit†
		
5203-06	5191-88	3407-93

* Typical flow with 100 psig (7 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) droop from set.
** Do not use the R41 feedback pilot regulator to control outlet pressures at or less than 100 psig (7 bar).
Use the 11-104 feedback pilot regulator at those pressures.

† Kit includes: Diaphragm, slip ring, valve seat with O-ring, valve and valve spring.

Service – Quality – Delivery

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ALE-55

Water Regulator

1/4" PTF, 3/8" PTF, and 1/2" PTF port sizes

Non-relieving models

Brass body, corrosion resistant construction

Full flow gauge ports can be used as auxiliary outlets

TECHNICAL DATA

Fluid:

Water and compressed air

Maximum pressure:

400 psig (27 bar)

Operating temperature:

Water service: 35° to 200°F (2° to 93°C)

Air service: -30° to 200°F (-34° to 93°C)*

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

R43 Gauge ports

1/4" PTF with PTF main ports

1/4" ISO G with ISO G main ports

1/4" ISO Rc with ISO Rc main ports

11-009 Gauge ports:

1/8" PTF with PTF main ports

G1/8 with ISO G main ports

Rc1/4 with ISO Rc main ports

Materials:

Body: Brass

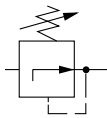
Bonnet: Aluminum

Valve: Brass

Bottom plug: Brass

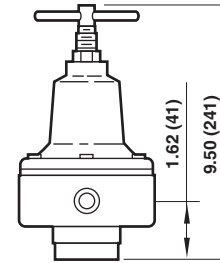
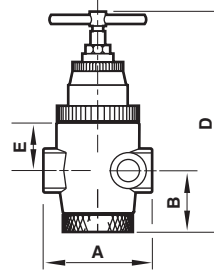
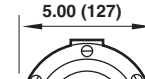
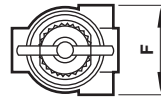
Elastomers: Nitrile

ISO Symbol



R43

11-009



Port Size	A	B	C	D	E	F
1/4", 3/8"	2.76 (70)	1.52 (39)	4.86 (124)	5.75 (146)	1.21 (31)	2.31 (59)
1/2"	3.34 (85)	1.59 (41)	5.01 (127)	5.90 (150)	1.28 (33)	2.44 (62)

Models

R43 SERIES Model No.	Port connection	Flow† U.S. gpm (lpm)	Output pressure adjustment range* PSIG (bar)
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R43 201 NNLA	1/4"	6 (23)	5 to 125 (0.3 to 8.5)
R43 301 NNLA	3/8"	6 (23)	5 to 125 (0.3 to 8.5)
R43 406 NNLA	1/2"	9 (34)	5 to 125 (0.3 to 8.5)

† Typical flow with 150 psig (10 bar) inlet pressure, 90 psig (6.3 bar) set pressure and 15 psig (1 bar) drop from set.

Accessories

Mounting bracket with nut	Service kit**
---------------------------------	------------------

5203-05	5298-03
5203-05	5298-03
5203-05	5298-10

** Kit includes: Diaphragm, O-rings, valve, valve spring

11-009 SERIES Model No.	Port connection	Flow† U.S. gpm (lpm)	Output pressure adjustment range* PSIG (bar)
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11 009 065	3/4"	27.5 (104)	5 to 125 (0.3 to 8.5)
11 009 081	1"	27.5 (104)	5 to 125 (0.3 to 8.5)

* Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

† Typical flow with 100 psig (6.9 bar) inlet pressure, 60 psig (4 bar) set pressure and 15 psig (1 bar) drop from set.

Service **kit

2436-03
2436-03

** Kit includes: Diaphragm, valve seat, valve pin, valve pin gasket, valve, valve spring, O-rings



U.L. LISTED INDUSTRIAL SERVICE REGULATORS

Regulators for use with compressed air and inert gases

Underwriters Laboratories, Inc. listed (file number SA1089) for use with air, argon, carbon dioxide, krypton, neon, nitrogen, xenon. For use with other gases, including oxygen, consult Norgren.

Relieving models allow reduction of outlet pressure even when the system is dead-ended

TECHNICAL DATA

R44

Fluid:

Compressed air, carbon dioxide, inert gases

Maximum pressure:

250 psig (17 bar)

Operating temperature:

-30° to 150°F [-34° to 66°C] *

* Air supply must be dry enough to avoid ice formation at temperatures below 35°F [2°C].

R83

Fluid:

Air, argon, carbon dioxide, krypton, neon, nitrogen, and xenon. For use with other gases, including oxygen, consult Norgren. Do not use the R83 regulator in beverage dispensing applications. Other Norgren regulators (R81 for soft drink, R82 for beer, R84 for carbonators) are available for use in dispensing systems.

Maximum pressure:

3000 psig [207 bar]

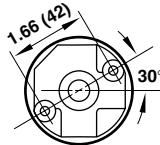
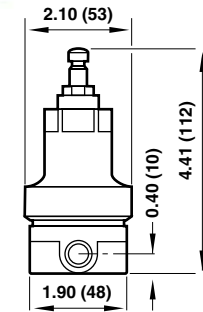
Operating temperature:

-30° to 140°F [-34° to 60°C] *

* Fluid must be dry enough to avoid ice formation at temperatures below 35°F [2°C].



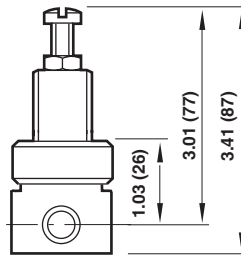
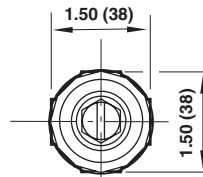
R83



Mounting Holes (2 Places)
0.18" (4.6mm) dia. by 0.39 (10mm) deep.
Use 10-32 thread forming screws.



R44



Models R44-133/-233
(Brass Body and Brass Bonnet)

Models

R44 SERIES Model No.	Port size PTF	Outlet pressure adjustment range† PSIG (bar)	Flow SCFM (dm³/s)
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R44-233-RNEA	1/4"	5 to 50 [0.3 to 3.5]	10 [4.7]*
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† Outlet pressure can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

* Approximate flow with 100 psig [7 bar] inlet pressure, 90 psig [6.3 bar] set pressure and a 15 psig [1 bar] droop from set.

Models

R83 SERIES Model No.	Port size PTF	Outlet pressure adjustment range* PSIG (bar)	Flow SCFM (dm³/s)
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R83-200-RNLA	1/4"	5 to 125 [0.3 to 8.5]	11 [5.2]
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* Outlet pressure can be adjusted to pressures in excess of, and less than, that specified. Do not use these units to control pressures outside of the specified range.

Accessories

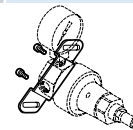
Wall mounting bracket	Service kit**
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18-001-021	3407-02
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** Kit includes: Slip ring, diaphragm, standard valve seat with seal, valve, valve spring.

Wall mounting bracket	Gauges	Service kit**
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6212-50	18-013-085	5086-55
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** Kit includes: Valve cartridge and seal

Service – Quality – Delivery

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ALE-57

U.L. LISTED BEVERAGE REGULATORS

Cylinder gas pressure (CO₂) regulators for Soft drink and beer dispensing systems

Underwriters Laboratories, Inc. listed (file number SA1089)

The R81 regulator and C81 regulator configurations with integral relief valve and outlet check valves meet the requirements of paragraphs 4.5 and 4.6 of NSDA Pamphlet TD02, Installation and Operational Procedures for Pressurized Soft Drink Dispensing Systems, dated July, 1980.

The R82 regulator with integral relief valve meets the requirements of Proposed Section 9.7, Draught Beer Dispensing Equipment and Related Components (Seventh Draft dated October 17, 1980), of ANSI-ASME F2.1-1975, Food, Drug, and Beverage Equipment.

TECHNICAL DATA

Fluid:

Carbon dioxide.

Maximum pressure:

3000 psig (207 bar)

Operating temperature:

0° to 140°F (-18° to 60°C)

Integral relief valve cracking pressure:

R81: 130 ± 4 psig (9.0 ± 0.28 bar)

R82: 60 ± 4 psig (4.1 ± 0.28 bar)

R84: 150 ± 5 psig (10.4 ± 0.33 bar)

Materials

Body: Brass

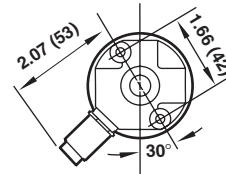
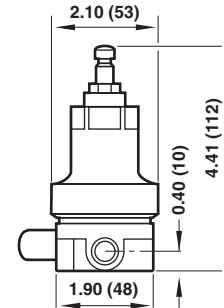
Bonnet: Zinc

Valve cartridge: Teflon, brass, stainless steel

Diaphragm: Acetal and nitrile

Relief valve: Brass, polycarbonate, nitrile, aluminum

Seals: Nitrile



Mounting Holes (2 Places)
0.18" (4.6mm) dia. by 0.39 (10mm) deep.
Use 10-32 thread forming screws.

Models

R80 SERIES Model No.	Port size PTF	Outlet pressure adjustment range* PSIG (bar)
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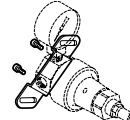


R81-200-LNKA	1/4"	5 to 100 (0.34 to 6.9)
R82-200-ENEA	1/4"	2 to 45 (0.14 to 3.1)
R84-200-RNLA	1/4"	5 to 125 (0.3 to 8.5)

* Outlet pressure can be adjusted to pressures in excess of, and less than, that specified. Do not use these units to control pressures outside of the specified range.

Accessories

Wall mounting bracket	Gauges	Service kit**
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6212-50	18-013-085	5086-55
6212-50	18-013-083	5086-55
6212-50	18-013-085	5086-55

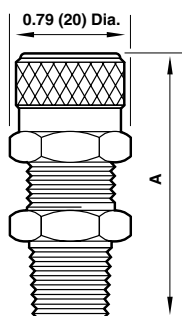
** Kit includes: Valve cartridge and seal



RELIEF VALVES

Miniature brass body tank relief valve

16-004 1/8" PTF, 1/4" NPTF



A: 1.56 (62) for 1/8" pipe size
1.75 (44) for 1/4" pipe size

Used in low-volume air tanks to retard excessive pressure buildup

Constructed of brass and stainless steel for compressed air and water service

TECHNICAL DATA

Fluid:

Compressed air

Maximum pressure:

300 psig (20 bar)

Operating temperature*:

-30° to 200°F (-34° to 93°C)

*Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).

Repeatability:

± 20% of relief pressure setting

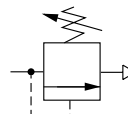
Materials:

Body, cap, spring rest: Brass

Valve: Brass and nitrile

Regulating spring: Stainless steel

ISO Symbol



Models

16-004 Series Port Size	5 to 25 psig* Model No.	25 to 50 psig* Model No.	25 to 75 psig* Model No.	70 to 150 psig* Model No.	125 to 300 psig* Model No.	Weight lbs (kg)
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1/8"	16-004-030	16-004-001	16-004-002	16-004-003	16-004-004	0.11 (0.05)
1/4"	16-004-031	16-004-009	16-004-010	16-004-011	16-004-012	0.11 (0.05)

* Pressure relief ranges. Relief valves can be adjusted to pressures in excess of, and less than, those specified. Do not use these units to control pressures outside of the specified ranges.

Service – Quality – Delivery

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ALE-59

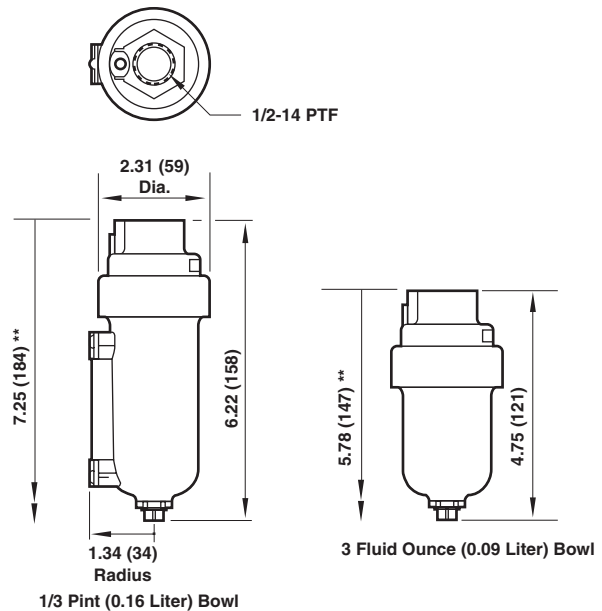
DRIP LEG DRAIN

17-016 1/2" NPTF

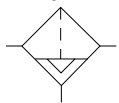
Automatically expels liquids from the piping network
 Can be disassembled without the use of tools or removal from the air line
 Automatic drain valve opens when system is unpressurized, allowing water to escape by gravity
 Automatic drain valve is float operated when system is pressurized
 Install at low points and at far end of piping network

TECHNICAL DATA

Fluid: Compressed air
Maximum pressure
 Transparent bowl: 150 psig (10 bar)
 Metal bowl: 250 psig (17 bar)
Operating temperature*
 Transparent bowl: 0° to 125°F (-20° to 50°C)
 Metal bowl: 0° to 175°F (-20° to 80°C)
 * Air supply must be dry enough to avoid ice formation at temperatures below 35°F (2°C).
Automatic drain connection: 1/8" pipe thread
 Automatic drain operating conditions (float operated):
 Bowl pressure required to close drain: Greater than 5 psig (0.3 bar)
 Minimum air flow thru drain required to close drain: 2 scfm (1 dm³/s).
 Bowl pressure required to open drain: Less than 3 psig (0.2 bar)
 Manual operation: Depress pin inside drain outlet to drain bowl
 Flexible tube with 0.125" (3mm) minimum I.D. can be connected to the drain. Avoid restrictions in the tube.
Materials
 Body: Zinc
 Bowl
 Transparent: Polycarbonate
 Metal: Zinc
 Drain mechanism: Acetal, Nitrile, stainless steel
 Metal bowl liquid level indicator lens: Pyrex
 Elastomers: Nitrile



ISO Symbol



Models

17-016 Model	Port size	Bowl Type	Bowl Size	Weight lbs (kg)
17-016-104	1/2"	Transparent	1/3 pint (0.16 liter)	0.8 (0.38)
17-016-107	1/2"	Metal with sight glass	1/3 pint (0.16 liter)	1.3 (0.59)
17-016-102	1/2"	Transparent	3 fluid ounce (0.09 liter)	0.8 (0.38)



GAUGES

18-013 1/8" and 1/2" NPTF

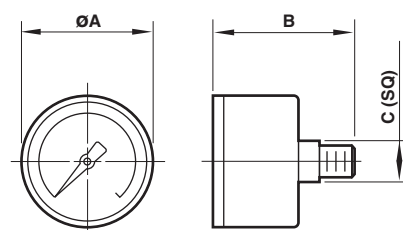


Monitor pressures in compressed air systems for optimum efficiency
Triple calibrated scale indicates pressure in psi, bar, and Mpa (megapascal)
Back or bottom connection
Panel mount, stainless steel, and Underwriters Laboratories, Inc. listed gauges available

ISO Symbol



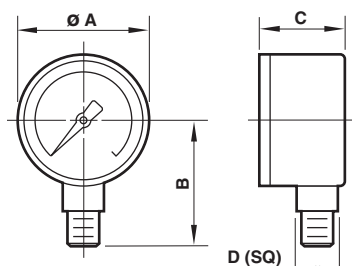
Dimensions in inches (mm)



A	B	C
1.5 [40]	1.60 [41]	0.47 [12]
2.0 [50]	1.85 [47]	0.55 [14]

Center back connection

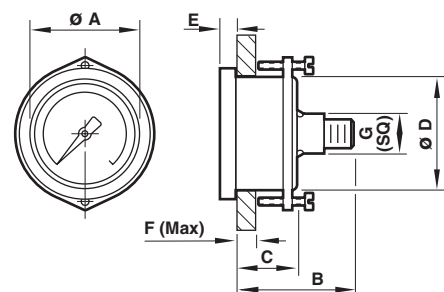
Outer Scale	Scale Range	Inner Scale	1/8 NPT	1/8 NPT	1/4 NPT	R1/4
Scale	Middle	Scale	1.5" (40mm)	2" (50mm)	2" (50mm)	2" (50mm)
psig	Scale	Mpa	Diameter	Diameter	Diameter	Diameter
0 to 30	0 to 2	0 to 0.2	18-013-214	18-013-201	18-013-207	—
0 to 60	0 to 4	0 to 0.4	18-013-211	18-013-202	18-013-208	18-013-266
0 to 100	0 to 7	0 to 0.7	—	18-013-203	18-013-235	—
0 to 160	0 to 11	0 to 1.1	18-013-212	18-013-204	18-013-209	18-013-263
0 to 300	0 to 20	0 to 2.1	18-013-275	18-013-205	18-013-210	18-013-267
0 to 400	0 to 28	0 to 2.8	—	18-013-206	—	—



A	B	C	D
1.5 [40]	1.42 [36]	0.90 [23]	0.47 [12]
2.0 [50]	1.73 [44]	1.03 [26]	0.55 [14]

Bottom connection

Outer Scale	Middle Scale	Inner Scale	1/8 NPT	1/4 NPT
Range-psig	Range-bar	Range-Mpa	1.5" (40mm) Dia.	2" (50mm) Dia.
0 to 15	0 to 1	—	—	18-013-082
0 to 30	0 to 2	0 to 0.2	18-013-224	18-013-030 *
0 to 60	0 to 4	0 to 0.4	18-013-225	18-013-083 *
0 to 100	0 to 7	0 to 0.7	18-013-265	18-013-084 *
0 to 160	0 to 11	0 to 1.1	18-013-273	18-013-085 *
0 to 300	0 to 20	—	—	18-013-086 *
0 to 2000	0 to 135	—	—	18-013-244 **
0 to 3000	0 to 205	—	—	18-013-087 **



A	B	C	D	E	F (Max)	G
1.5 [40]	1.51 [38]	0.86 [22]	1.61 [41]	0.18 [5]	0.5 [13]	0.55 [14]

Center back connection, panel mount

Outer Scale	Middle Scale	Inner Scale	1/8 NPT Male and 10-32 Female
Range-psig	Range-bar	Range-Mpa	1.5" (40mm) Diameter
0 to 30	0 to 2	0 to 0.2	5PG-306-000 **
0 to 60	0 to 4	0 to 0.4	5PG-312-000 **
0 to 100	0 to 7	0 to 0.7	5PG-320-000 **

Stainless steel

Outer Scale	Inner Scale	1/8 PTF	1/4 PTF
Range-bar	Range-psi	1.5" (40mm) Dia.	1.5" (40mm) Dia.
0 to 6	0 to 84	—	18-013-913
0 to 10	0 to 140	18-013-844	18-013-909
0 to 25	0 to 360	—	18-013-905

BLOW GUNS BG Series

BG4200:

Bright chrome finish

Exhausts air when nozzle is blocked

Complies with O.S.H.A.

BG3200:

One piece design in molded high impact plastic

Exhausts air when nozzle is blocked

Complies with O.S.H.A.

TECHNICAL DATA

Medium:

Non-lubricated compressed air, filtered

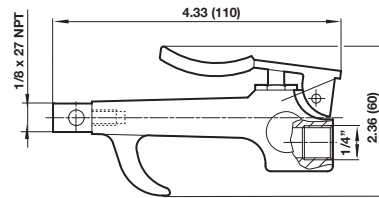
Connection:

1/4" PTF (BG4200 and BG3200)

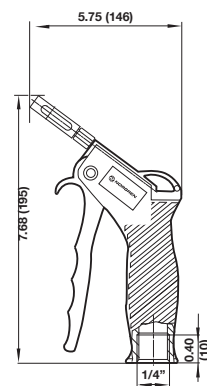
Operating pressure:

145 psig (10 bar) maximum line pressure

The USA O.S.H.A. recommendations state that nozzle pressures should not exceed 2 bar. This ensures that the blocked end condition pressure will not exceed the 0,4 bar that could penetrate human skin with possibly fatal consequences. Blow guns should always be supplied through a suitable pressure regulator to ensure safe operation



BG4200



BG3200

Models

Part number NPTF	Description	Port size
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BG4200	Metal blow gun	1/4"
--------	----------------	------

Part number NPTF	Description	Port size
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BG3200	Plastic blow gun	1/4"
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Part number	Description	Thread size NPTF
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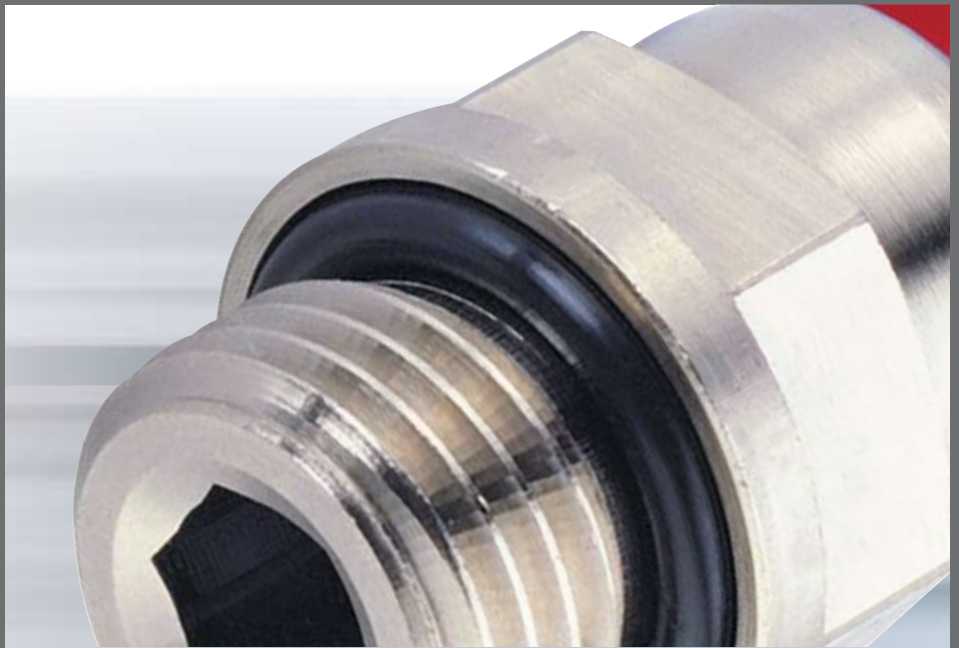


BG0200	Rubber tip	1/4"
--------	------------	------



Fittings, tubing & accessories

Norgren offers fittings to work seamlessly with virtually every motion and fluid control product. Our Pneufit range, both metal and composite, has been extended dramatically to make Norgren Express your one stop shop for fittings. Also included in this section is a new high quality range of tubing plus vital responsible business products such as coalescing exhaust silencers. See the fast find guide overleaf to find the right part to get the job done.



FITTINGS, TUBING & ACCESSORIES

5

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com



FIT-1

Fast Find Guide

PUCH-IN FITTINGS

**Pneufit®
push-in fittings**
Ø 1/8" to 1/2"



Page FIT-4

**Pneufit C and M
composite fittings**
Ø 1/8" to 1/2"



Page FIT-8

Pneufit D fittings
Ø 5/32" to 1/2"



FIT-18

**Fleetfit vehicle
push-in fittings**
Ø 1/4" to 3/4"



Page FIT-22

**43 series
compression fittings -
external nut**
Ø 4 to 22 mm



Page 257

BSP & hose fittings
M5, 1/8" to 1" BSP



Page 261

MUFFLERS, SILENCERS, AND BREATHER VENTS

MS series
sintered bronze silencers



Page FIT-28

Quietaire
Heavy duty mufflers



Page FIT-28

C/S series
porous plastic mufflers



Page FIT-28

Breather vents



Page FIT-29

Stem silencers



Page FIT-29

T20 series
High performance
flow control muffler



Page FIT-29

FUNCTION FITTINGS AND FLOW CONTROLS

Banjo flow controls
Pneufit push-in elbow banjo
flow controls



Page Fit-26

MQ series
Plastic speed control



Page FIT-28

**Sintered bronze speed
control**



Page FIT-29

**T51, T52, and
T53 series**
Push-in non-return
valves



Page FIT-30

**T55, and T56
series**
Non-return valves



Page FIT-31

M/800 series
Heavy duty flow controls,
uni-directional



Page FIT-32

T15 series
Push-in flow controls,
uni-directional



Page Fit-33

T1000 series
Block form flow
controls



Page FIT-34

T60 series
In-line excess flow
shut-off valves



Page FIT-35

T65 series
Shuttle valves



Page FIT-36

T70 series
Quick exhaust valves



Page FIT-31

M/800 series
Heavy duty flow controls,
uni-directional



Page FIT-32

TUBING AND ACCESSORIES

Nylon tubing

Ø 1/8" to 1/2"



Page FIT-38

Polyurethane tubing

Ø 1/8" to 3/8"



Page FIT-38

Polyethylene tubing
(LDPE)

Ø 1/8" to 1/2"



Page FIT-39

Tube cutter



Page FIT-39

Tubing mount

Ø 1/4" to 1/2"



Page FIT-39

PNEUFIT PUSH-IN FITTINGS

Inch Ø 1/8" to 1/2" O/D tube

For simple and quick assembly of pneumatic circuits.

Positive tube connection.

Wide range of types available.

Reliable and corrosion resistant.

TECHNICAL DATA

Fluid:

Compressed air, nitrogen, inert and non-combustible gases compatible with materials of construction.

Note:

For other types of fluids or compressed gases, please consult factory.

Working Pressure:

29.5" Hg vacuum to 260 psig (750 mm Hg to 18 bar)

Note:

Flow Control working pressures: 5 to 150 psig (.3 to 10 bar)

Working Temperature:

-4° to 175°F (-20° to 80°C)

Materials

Body, swivel fitting and collet: Nickel plated brass

O-ring: Silicone free Nitrile

Sealing washer (parallel male threads): silicone free nitrile

Tubing: Nylon 11 or 12, Polyurethane (95 durometer or above) and LDPE (Low Density Polyethylene).

Note: Lower durometer polyurethane may be used, however, an internal tube support is required to prevent internal collapse of the tube wall.

Thread Sealant: Precote 5 thread sealant is factory applied to the circumference of tapered male threads.

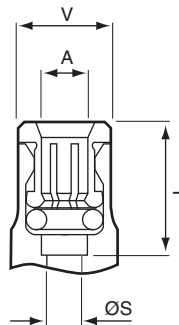
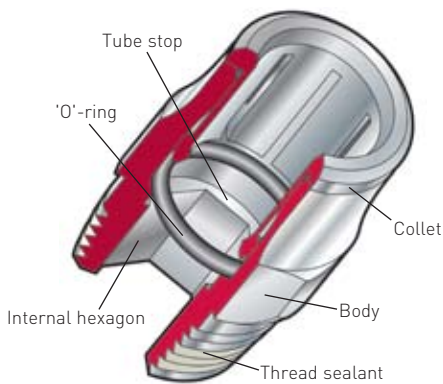


Recommended tightening torques

NPT or UNF Thread	Tightening torque ft lbs (Nm)
10-32 UNF	.75 - 1 [1-1.4]
1/8"	5.0 - 6.5 [6.9 - 8.8]
1/4"	8.7 - 10.1 [11.8 - 13.7]
3/8"	15.9 - 17.3 [21.6 - 23.5]
1/2"	20.2 - 21.7 [27.4 - 29.4]

Tube O.D.'s and Tube Tolerances

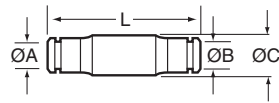
Tube O.D.	O.D. Tube Tolerances	
	Nylon	Polyurethane
1/8" to 1/2"	+0.002" (+0.05 mm)	±0.005" (±0.12 mm)



Dimensions

A O.D. Tube	T S	Tubing Stop	V
1/8"	0.09 [2.3]	0.53 [13.5]	0.26 [6.5]
5/32" [4]	0.11 [2.8]	0.55 [14.0]	0.30 [7.5]
3/16"	0.13 [3.4]	0.59 [15.1]	0.38 [9.7]
1/4"	0.17 [4.4]	0.61 [15.5]	0.42 [10.7]
5/16" [8]	0.24 [6.0]	0.65 [16.5]	0.51 [13.0]
3/8"	0.30 [7.6]	0.83 [21.0]	0.59 [15.1]
1/2"	0.38 [9.6]	0.96 [24.3]	0.71 [18.1]





PNEUFIT PUSH-IN FITTINGS

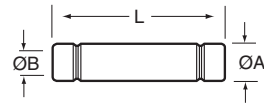
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)

Pneufit Union

Part Number	A Tube O.D.	L	C
12 020 0104	1/8" to 1/4"*	1.22 [31.0]	0.47 [12.0]
12 020 0400	1/4"	1.28 [32.4]	0.47 [12.0]
12 020 0600	3/8"	1.71 [43.4]	0.67 [17.0]
12 020 0700	1/2"	1.98 [50.4]	0.81 [20.5]

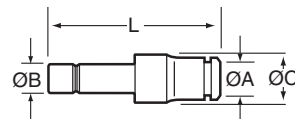
* Reducing union with 1/8" and 1/4" connections



Pneufit Double Male Union (brass)

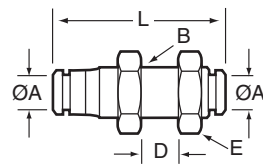
Part Number	A Stem O.D.	B	L
12 022 0400	1/4"	0.24 [6.0]	1.34 [34.0]
12 022 0600	3/8"	0.38 [9.6]	1.77 [45.0]
12 022 0700	1/2"	0.45 [11.5]	2.05 [52.0]

Not suitable for use with Pneufit C



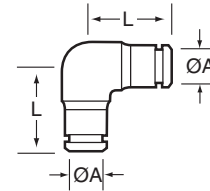
Pneufit Tube End Expander/Reducer

Part Number	A Tube O.D.	B Stem O.D.	L	C
12 023 0201	1/8"	5/32"	1.22 [31.0]	0.35 [9.0]
12 023 0401	1/8"	1/4"	1.30 [33.0]	0.35 [9.0]
12 023 0402	5/32"	1/4"	1.34 [34.0]	0.39 [10.0]
12 023 0602	5/32"	3/8"	1.22 [31.0]	0.47 [12.0]
12 023 0403	3/16"	1/4"	1.38 [35.0]	0.43 [11.0]
12 023 0504	1/4"	5/16"	1.46 [37.0]	0.47 [12.0]
12 023 0604	1/4"	3/8"	1.50 [38.0]	0.47 [12.0]
12 023 0704	1/4"	1/2"	1.38 [35.0]	0.55 [14.0]
12 023 0605	5/16"	3/8"	1.69 [43.0]	0.55 [14.0]
12 023 0705	5/16"	1/2"	1.65 [42.0]	0.55 [14.0]
12 023 0706	3/8"	1/2"	1.97 [50.0]	0.67 [17.0]
Expanding				
12 023 0104	1/4"	1/8"	1.34 [34.0]	0.47 [12.0]
12 023 0204	1/4"	5/32"	1.38 [35.0]	0.47 [12.0]



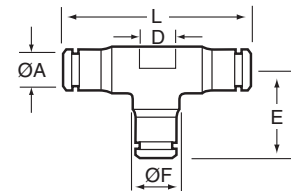
Pneufit Bulkhead Union

Part Number	A Tube O.D.	B Metric Thread	Panel Hole Ø	E A/F	D Max	L
12 029 0100	1/8"	M10 x 1.0	0.42 [10.5]	0.55 [14.0]	0.47 [12]	1.15 [29.3]
12 029 0200	5/32"	M10 x 1.0	0.42 [10.5]	0.55 [14.0]	0.47 [12.0]	1.18 [30.0]
12 029 0300	3/16"	M12 x 1.0	0.49 [12.5]	0.67 [17.0]	0.55 [14.0]	1.26 [32.0]
12 029 0400	1/4"	M14 x 1.5	0.57 [14.5]	0.75 [19.0]	0.59 [15.0]	1.38 [35.0]
12 029 0500	5/16"	M16 x 1.5	0.65 [16.5]	0.87 [22.0]	0.63 [16.0]	1.42 [36.0]
12 029 0600	3/8"	M20 x 1.5	0.81 [20.5]	1.06 [27.0]	0.55 [14.0]	1.69 [43.0]
12 029 0700	1/2"	M24 x 1.5	0.96 [24.5]	1.18 [30.0]	0.59 [15.0]	1.97 [50.0]



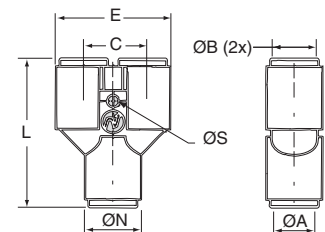
Pneufit Union Elbow

Part Number	A Tube O.D.	L
12 040 0100	1/8"	0.65 [16.4]
12 040 0200	5/32"	0.67 [17.0]
12 040 0300	3/16"	0.72 [18.4]
12 040 0400	1/4"	0.77 [19.6]
12 040 0500	5/16"	0.84 [21.3]
12 040 0600	3/8"	1.05 [26.7]
12 040 0700	1/2"	1.25 [31.7]



Pneufit Union Tee

Part Number	A Tube O.D.	C	D A/F	E	F	L
12 060 0100	1/8"	0.26 [6.5]	0.20 [5.0]	0.63 [15.9]	0.32 [8.1]	1.26 [32.0]
12 060 0200	5/32"	0.30 [7.5]	0.28 [7.0]	0.67 [16.9]	0.40 [10.1]	1.34 [34.0]
12 060 0300	3/16"	0.38 [9.7]	0.28 [7.0]	0.72 [18.4]	0.44 [11.1]	1.44 [36.6]
12 060 0400	1/4"	0.42 [10.7]	0.31 [8.0]	0.77 [19.6]	0.48 [12.1]	1.54 [39.2]
12 060 0500	5/16"	0.50 [12.7]	0.43 [11.0]	0.84 [21.3]	0.56 [14.3]	1.68 [42.6]
12 060 0600	3/8"	0.59 [15.1]	0.52 [13.3]	1.05 [26.7]	0.67 [17.1]	2.10 [53.4]
12 060 0700	1/2"	0.71 [18.1]	0.63 [16.0]	1.25 [31.7]	0.81 [20.6]	2.50 [63.4]



Pneufit Parallel Union "Y"*

Part Number	A Tube O.D.	B Tube O.D.	C	ØD	E	L	ØN	ØS**
12 082 0200	5/32"	5/32"	0.43 [11.0]	0.30 [7.5]	0.87 [22.0]	1.34 [34.0]	0.43 [11.0]	0.13 [3.2]
12 082 0402	5/32"	1/4"	0.55 [14.0]	0.43 [11.0]	1.06 [27.0]	1.50 [38.2]	0.51 [13.0]	0.13 [3.2]
12 082 0400	1/4"	1/4"	0.55 [14.0]	0.43 [11.0]	1.06 [27.0]	1.51 [38.4]	0.51 [13.0]	0.13 [3.2]
12 082 0500	5/16"	5/16"	0.63 [16.0]	0.51 [13.0]	1.22 [31.0]	1.59 [40.4]	0.59 [15.0]	0.13 [3.2]

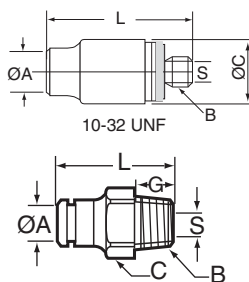
*Body Material: Thermoplastic

** Mounting hole

PNEUFIT PUSH-IN FITTINGS

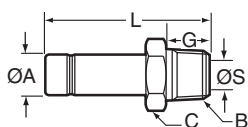
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



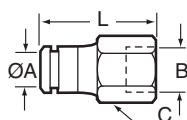
Pneumatic Male Adapter

Part Number	A Tube O.D.	B NPT or UNF Thread	C A/F	G	L	S Hex
12 425 0110	1/8"	10-32 UNF	0.35 [9]	0.20 [5.0]	0.79 [20.0]	3/32"
12 425 0116	1/8"	1/16	3/8"	0.37 [9.5]	0.80 [20.4]	3/32"
12 425 0118	1/8"	1/8	7/16"	0.37 [9.5]	0.67 [16.9]	3/32"
12 425 0128	1/8"	1/4	9/16"	0.56 [14.3]	0.95 [24.2]	3/32"
12 425 0210	5/32"	10-32 UNF	0.35 [9]	0.20 [5.0]	0.85 [21.5]	3/32"
12 425 0218	5/32"	1/8	7/16"	0.37 [9.5]	0.89 [22.7]	1/8"
12 425 0228	5/32"	1/4	9/16"	0.56 [14.3]	1.04 [26.5]	1/8"
12 425 0318	3/16"	1/8	7/16"	0.37 [9.5]	0.96 [24.5]	5/32"
12 425 0328	3/16"	1/4	9/16"	0.56 [14.3]	1.04 [26.3]	5/32"
12 425 0410	1/4"	10-32 UNF	0.43 [11.0]	0.20 [5.0]	0.94 [24.0]	3/32"
12 425 0418	1/4"	1/8	7/16"	0.37 [9.5]	0.98 [25.0]	5/32"
12 425 0428	1/4"	1/4	9/16"	0.56 [14.3]	1.11 [28.3]	5/32"
12 425 0438	1/4"	3/8	11/16"	0.56 [14.3]	1.07 [27.2]	3/16"
12 425 0518	5/16"	1/8	1/2"	0.37 [9.5]	1.12 [28.5]	3/16"
12 425 0528	5/16"	1/4	9/16"	0.56 [14.3]	1.23 [31.3]	1/4"
12 425 0538	5/16"	3/8	11/16"	0.56 [14.3]	1.13 [28.8]	1/4"
12 425 0618	3/8"	1/8	11/16"	0.37 [9.5]	1.32 [33.5]	3/16"
12 425 0628	3/8"	1/4	11/16"	0.56 [14.3]	1.47 [37.3]	1/4"
12 425 0638	3/8"	3/8	11/16"	0.56 [37.3]	1.41 [35.8]	5/16"
12 425 0648	3/8"	1/2	7/8"	0.75 [19.1]	1.45 [36.8]	5/16"
12 425 0728	1/2"	1/4	7/8"	0.56 [14.3]	1.67 [42.3]	1/4"
12 425 0738	1/2"	3/8	7/8"	0.56 [14.3]	1.63 [41.3]	3/8"
12 425 0748	1/2"	1/2	7/8"	0.75 [19.1]	1.70 [43.3]	3/8"



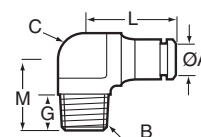
Pneufit Stem Adapter

Part Number	A Tube O.D.	B NPT Thread	C A/F	G	L	S Hex
12 415 0418	1/4"	1/8	7/16"	0.37 [9.5]	1.33 [33.8]	0.16 [4.0]
12 415 0428	1/4"	1/4	9/16"	0.56 [14.3]	1.11 [38.6]	5/32" [4.0]
12 415 0628	3/8"	1/4	9/16"	0.56 [14.3]	1.82 [46.2]	0.30 [7.6]



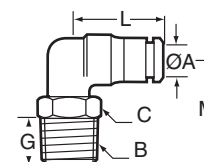
Pneufit Female Adapter

Part Number	A Tube O.D.	B NPT Thread	C A/F	L
12 426 0118	1/8"	1/8	9/16"	1.14 [29.0]
12 426 0128	1/8"	1/4	11/16"	1.38 [35.1]
12 426 0218	5/32"	1/8	9/16"	1.14 [29.0]
12 426 0228	5/32"	1/4	11/16"	1.42 [36.1]
12 426 0418	1/4"	1/8	9/16"	1.19 [30.2]
12 426 0428	1/4"	1/4	11/16"	1.46 [37.1]
12 426 0518	5/16"	1/8	9/16"	1.23 [31.2]
12 426 0528	5/16"	1/4	11/16"	1.50 [38.1]
12 426 0628	3/8"	1/4	11/16"	1.66 [42.2]
12 426 0638	3/8"	3/8	7/8"	1.70 [43.2]



Pneufit Fixed Male Elbow

Part Number	A Tube O.D.	B NPT Thread	C A/F	G	L	M
12 445 0218	5/32"	1/8	0.28 [7.0]	0.37 [9.5]	0.67 [17.0]	0.66 [16.8]
12 445 0228	5/32"	1/4	0.43 [11.0]	0.56 [14.3]	0.72 [18.3]	0.92 [23.4]
12 445 0318	3/16"	1/8	0.28 [7.0]	0.37 [9.5]	0.72 [18.3]	0.67 [17.0]
12 445 0328	3/16"	1/4	0.43 [11.0]	0.56 [14.3]	0.79 [20.1]	0.92 [23.4]
12 445 0418	1/4"	1/8	0.31 [8.0]	0.37 [9.5]	0.77 [19.6]	0.70 [17.8]
12 445 0428	1/4"	1/4	0.43 [11.0]	0.56 [14.3]	0.79 [20.1]	0.92 [23.4]
12 445 0438	1/4"	3/8	0.63 [16.0]	0.56 [14.3]	0.84 [21.3]	1.1 [27.9]
12 445 0518	5/16"	1/8	0.43 [11.0]	0.37 [9.5]	0.84 [21.3]	0.74 [18.8]
12 445 0528	5/16"	1/4	0.43 [11.0]	0.56 [14.3]	0.84 [21.3]	0.92 [23.4]
12 445 0618	3/8"	1/8	0.52 [13.3]	0.37 [9.5]	1.05 [26.7]	0.8 [20.3]
12 445 0628	3/8"	1/4	0.52 [13.3]	0.56 [14.3]	1.05 [26.7]	0.98 [24.9]
12 445 0638	3/8"	3/8	0.63 [16.0]	0.56 [14.3]	1.05 [26.7]	1.1 [27.9]
12 445 0648	3/8"	1/2	0.94 [24.0]	0.75 [19.1]	1.13 [28.7]	1.36 [34.5]
12 445 0728	1/2"	1/4	0.63 [16.0]	0.56 [14.3]	1.25 [31.8]	1.03 [26.2]
12 445 0738	1/2"	3/8	0.63 [16.0]	0.56 [14.3]	1.25 [31.8]	1.1 [27.9]
12 445 0748	1/2"	1/2	0.94 [24.0]	0.75 [19.1]	1.25 [31.8]	1.36 [34.5]



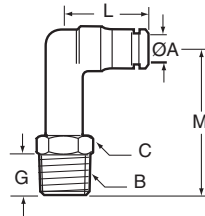
Pneufit Swivel Male Elbow

Part Number	A Tube O.D.	B NPT or UNF Thrd	C A/F	G	L	M
12 447 0110	1/8"	10-32 UNF	5/16"	0.20 [5.0]	0.63 [16.0]	0.70 [17.0]
12 447 0118	1/8"	1/8	7/16"	0.37 [9.5]	0.63 [16.0]	0.82 [20.8]
12 447 0128	1/8"	1/4	9/16"	0.37 [9.5]	0.68 [17.3]	1.07 [27.2]
12 447 0210	5/32"	10-32 UNF	5/16"	0.20 [5.0]	0.67 [17.0]	0.70 [17.0]
12 447 0218	5/32"	1/8	7/16"	0.37 [9.5]	0.67 [17.0]	0.86 [21.8]
12 447 0228	5/32"	1/4	9/16"	0.56 [14.3]	0.67 [17.0]	1.07 [27.2]
12 447 0318	3/16"	1/8	7/16"	0.37 [9.5]	0.72 [18.3]	0.88 [22.4]
12 447 0328	3/16"	1/4	9/16"	0.56 [14.3]	0.72 [18.3]	1.09 [27.7]
12 447 0410	1/4"	10-32 UNF	5/16"	0.20 [5.0]	0.77 [19.6]	0.71 [18.0]
12 447 0418	1/4"	1/8	7/16"	0.37 [9.5]	0.77 [19.6]	0.9 [22.9]
12 447 0428	1/4"	1/4	9/16"	0.56 [14.3]	0.77 [19.6]	1.11 [28.2]
12 447 0438	1/4"	3/8	3/4"	0.56 [14.3]	0.8 [20.3]	1.15 [29.2]
12 447 0518	5/16"	1/8	9/16"	0.37 [9.5]	0.84 [21.3]	0.96 [24.4]
12 447 0528	5/16"	1/4	9/16"	0.56 [14.3]	0.84 [21.3]	1.15 [29.2]
12 447 0618	3/8"	1/8	9/16"	0.37 [9.5]	1.05 [26.7]	1.05 [26.7]
12 447 0628	3/8"	1/4	11/16"	0.56 [14.3]	1.05 [26.7]	1.26 [32.0]
12 447 0638	3/8"	3/8	3/4"	0.56 [14.3]	1.05 [26.7]	1.26 [32.0]
12 447 0648	3/8"	1/2	7/8"	0.75 [19.0]	1.05 [26.7]	1.48 [37.6]
12 447 0728	1/2"	1/4	3/4"	0.56 [14.3]	1.25 [31.8]	1.37 [34.8]
12 447 0738	1/2"	3/8	3/4"	0.56 [14.3]	1.25 [31.8]	1.41 [35.8]
12 447 0748	1/2"	1/2	7/8"	0.75 [19.0]	1.25 [31.8]	1.62 [41.1]

PNEUFIT PUSH-IN FITTINGS

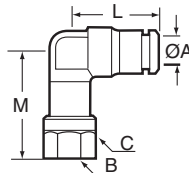
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



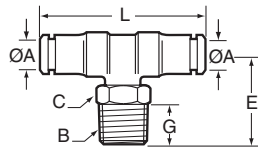
Pneufit Extended Swivel Mail Elbow

Part Number	A Tube O.D.	B NPT Thread	C A/F	G	L	M
12 454 0218	5/32"	1/8	7/16"	0.37 [9.5]	0.67 [16.9]	1.39 [35.3]
12 454 0418	1/4"	1/8	9/16"	0.56 [14.3]	0.67 [16.9]	1.71 [43.5]
12 454 0428	1/4"	1/4	9/16"	0.56 [14.3]	0.77 [19.6]	1.75 [44.5]
12 454 0628	3/8"	1/4	11/16"	0.56 [14.3]	1.05 [26.7]	2.10 [53.4]
12 454 0638	3/8"	3/8	3/4"	0.56 [14.3]	1.05 [26.7]	2.10 [53.4]



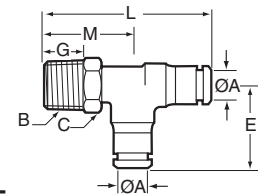
Swivel Female Elbow

Part Number	A Tube O.D.	B NPT Thread	C A/F	L	M
12 448 0218	5/32"	1/8	9/16"	0.67 [16.9]	1.19 [30.1]
12 448 0228	5/32"	1/4	11/16"	0.67 [16.9]	1.40 [35.6]
12 448 0418	1/4"	1/8	9/16"	0.77 [19.6]	1.22 [31.1]
12 448 0428	1/4"	1/4	11/16"	0.77 [19.6]	1.44 [36.6]
12 448 0628	3/8"	1/4	11/16"	1.05 [26.7]	1.58 [40.1]
12 448 0738	1/2"	3/8	7/8"	1.25 [31.7]	1.82 [46.2]



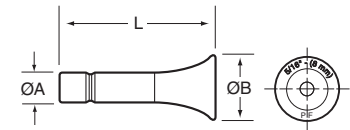
Pneufit Swivel Male Tee

Part Number	A Tube O.D.	B NPT or UNF Thrd	C A/F	G	L	E
12 467 0110	1/8"	10-32 UNF	5/16"	0.20 [5.0]	1.25 [32.0]	0.73 [18.5]
12 467 0118	1/8"	1/8	7/16"	0.37 [9.5]	1.26 [32.0]	0.81 [20.7]
12 467 0128	1/8"	1/4	9/16"	0.56 [14.3]	1.34 [34.0]	1.07 [27.1]
12 467 0210	5/32"	10-32 UNF	5/16"	0.20 [5.0]	1.34 [34.0]	0.77 [19.5]
12 467 0218	5/32"	1/8	7/16"	0.37 [9.5]	1.33 [33.8]	0.86 [21.8]
12 467 0228	5/32"	1/4	9/16"	0.56 [14.3]	1.33 [33.8]	1.07 [27.1]
12 467 0318	3/16"	1/8	7/16"	0.37 [9.5]	1.45 [36.8]	0.88 [22.3]
12 467 0418	1/4"	1/8	7/16"	0.37 [9.5]	1.54 [39.2]	0.90 [22.8]
12 467 0428	1/4"	1/4	9/16"	0.56 [14.3]	1.54 [39.2]	1.12 [28.1]
12 467 0438	1/4"	3/8	3/4"	0.56 [14.3]	1.57 [40.0]	1.20 [30.5]
12 467 0518	5/16"	1/8	9/16"	0.37 [9.5]	1.68 [42.6]	0.96 [24.3]
12 467 0528	5/16"	1/4	9/16"	0.56 [14.3]	1.68 [42.6]	1.15 [29.1]
12 467 0618	3/8"	1/8	9/16"	0.37 [9.5]	2.10 [53.4]	0.66 [16.7]
12 467 0628	3/8"	1/4	11/16"	0.56 [14.3]	2.10 [53.4]	1.26 [32.0]
12 467 0638	3/8"	3/8	3/4"	0.56 [14.3]	2.10 [53.4]	1.26 [32.0]
12 467 0648	3/8"	1/2	7/8"	0.75 [19.0]	2.10 [53.4]	1.48 [37.5]
12 467 0728	1/2"	1/4	3/4"	0.56 [14.3]	2.50 [63.4]	1.37 [34.8]
12 467 0738	1/2"	3/8	3/4"	0.56 [14.3]	2.50 [63.4]	1.41 [35.7]
12 467 0748	1/2"	1/2	7/8"	0.75 [19.0]	2.50 [63.4]	1.62 [41.2]



Pneufit Swivel Male Side Tee

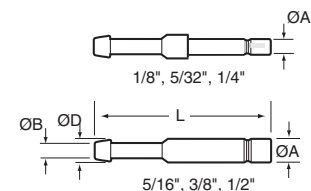
Part Number	A Tube O.D.	B NPT or UNF Thrd	C A/F	G	L	M	E
12 468 0118	1/8"	1/8	7/16"	0.63 [9.5]	1.36 [34.5]	0.73 [18.5]	0.63 [16.0]
12 468 0128	1/8"	1/4	9/16"	0.67 [14.3]	1.44 [36.5]	0.77 [19.5]	0.67 [17.0]
12 468 0210	5/32"	10-32 UNF	5/16"	0.67 [17.0]	1.44 [36.5]	0.67 [17.0]	1.44 [36.6]
12 468 0218	5/32"	1/8	7/16"	0.67 [9.5]	1.52 [38.7]	0.86 [21.8]	0.67 [16.9]
12 468 0418	1/4"	1/8	7/16"	0.77 [9.5]	1.67 [42.4]	0.90 [22.8]	0.77 [19.6]
12 468 0428	1/4"	1/4	9/16"	0.77 [14.3]	1.88 [47.7]	1.11 [28.1]	0.77 [19.6]
12 468 0438	1/4"	3/8	3/4"	0.79 [14.3]	1.59 [40.5]	0.81 [20.5]	0.79 [20.0]
12 468 0528	5/16"	1/4	9/16"	0.84 [14.3]	1.98 [50.4]	1.15 [29.1]	1.98 [50.3]
12 468 0618	3/8"	1/8	9/16"	1.05 [9.5]	2.00 [50.7]	0.94 [24.0]	1.05 [26.7]
12 468 0628	3/8"	1/4	11/16"	1.05 [14.3]	2.31 [58.7]	1.26 [32.0]	1.05 [26.7]
12 468 0638	3/8"	3/8	3/4"	1.05 [14.3]	2.31 [58.7]	1.26 [32.0]	1.05 [26.7]
12 468 0648	3/8"	1/2	7/8"	1.05 [19.0]	2.53 [64.2]	1.48 [37.5]	1.05 [26.7]
12 468 0748	1/2"	1/2	7/8"	1.25 [19.0]	2.87 [72.9]	1.62 [41.2]	1.25 [31.7]



Pneufit Plug*

Part Number	A Stem O.D.	ØB	L
12 004 0100	1/8"	0.34 [8.6]	1.02 [25.9]
12 004 0200	5/32"	0.38 [9.6]	1.04 [26.4]
12 004 0400	1/4"	0.46 [11.6]	1.12 [28.4]
12 004 0500	5/16"	0.50 [12.7]	1.16 [29.5]
12 004 0600	3/8"	0.61 [15.6]	1.34 [34.0]
12 004 0700	1/2"	0.66 [16.7]	1.48 [37.6]

* Material: Nickel plated Brass



Pneufit Barb Adapter

Part Number	A Stem O.D.	B Hose Bore	D	L [ref]
12 019 0201	5/32"	1/8"	0.17 [4.2]	1.35 [34.3]
12 019 0403	1/4"	3/16"	0.24 [6.2]	1.43 [36.3]
12 019 0605	3/8"	5/16"	0.37 [9.5]	1.70 [43.2]

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FIT-7

PNEUFIT® C COMPOSITE AND PNEUFIT M FITTINGS

Inch Ø 1/8" to 1/2" O/D tube

Ready to use.

Over 1,000 composite push-in pneumatic fittings.

Releasable stainless-steel grab-ring to grip nylon or polyurethane tube (85 or 95 durometer).

Nickel plated brass components.

Pre applied thread sealant on all taper threads and recessed captive O-ring on parallel threads.

Internal and external hexagons on straight fittings.

Immediate quality sealing using silicone free U-packing.

Mounting holes on all union fittings.

Introducing Miniature Pneufit M an ultra compact alternative where space is at a premium.



TECHNICAL DATA

Medium:

Compressed air

Operating pressure:

29.5" Hg vacuum up to 150 psi (750 mm Hg to 10 bar)

Temperature:

32° to 140°F [0° to 60°C]

Materials

Body: PBT

Seals: NBR (silicone free) u-packaging and O-rings

Threaded bodies: nickel plated brass

Release sleeve and backing ring: POM

Grab-ring: stainless steel

Collar: nickel plated brass

Thread sealant: threebond 2350B

Tube sizes

Standard sizes: 5/32", 3/16", 1/4", 5/16", 3/8" and 1/2"

Miniature sizes: 1/8", 1/4", 5/32"

Thread sizes

Standard sizes: 10-32 UNF, 1/8", 1/4", 3/8 and 1/2" NPT and ISO R

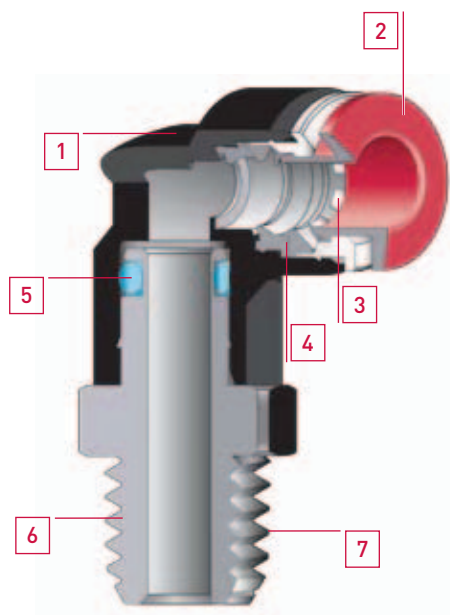
Miniature sizes: 10-32 UNF, 1/16" and 1/8" NPT

Tube types

Nylon 11 or 12

Polyurethane 85 or 95 durometer

- 1 Impact resistant PBT body in black for Pneufit® C and light gray for Pneufit® M.
- 2 Release buttons are red for metric, grey for inch, and light grey oval for Pneufit® M.
- 3 Stainless steel grab ring with special design to retain softer tube and provide easy releasability.
- 4 Silicon free U-packing provides leak tight tube seal under side loading.
- 5 Stem seal provides leak tight 360° swivel connection.
- 6 Nickel plated brass threads and notches on hex to signify NPT.
- 7 Pre-applied thread sealant on tapered threads and recessed captive O-ring on parallel threads.

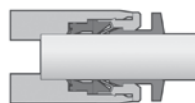


Method of assembly



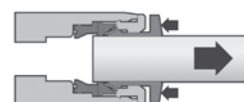
1. Ensure that the end tube is cut square and is free from burrs.

2. Push the tube through the release ring button and grab ring into the fitting.



3. Push the tube firmly through the 'O' ring until it bottoms on the tube stop, then pull back.

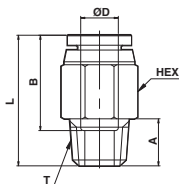
4. To disconnect, push the tube into the fitting, hold down the release button and withdraw the tube.



PNEUFIT® C COMPOSITE AND PNEUFIT M FITTINGS

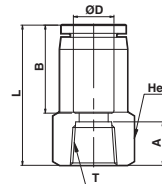
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



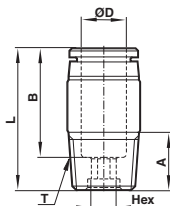
Straight adapter (external + internal hex)

Part Number	ØD O/D tube	T NPT or UNF Thread	L	A	B	Hex
C24250210	5/32	10/32 UNF	0.84 [21.4]	0.14 [3.6]	0.64 [16.2]	7/16
C24250218	5/32	1/8	0.77 [19.5]	0.33 [8.5]	0.64 [16.2]	7/16
C24250228	5/32	1/4	0.87 [22.0]	0.41 [10.5]	0.64 [16.2]	9/16
C24250238	5/32	3/8	0.90 [22.95]	0.45 [11.5]	0.64 [16.2]	11/16
C24250310	3/16	10/32 UNF	0.87 [22.0]	0.14 [3.6]	0.66 [16.8]	7/16
C24250318	3/16	1/8	0.91 [23.1]	0.33 [8.5]	0.66 [16.8]	7/16
C24250328	3/16	1/4	0.91 [23.1]	0.41 [10.5]	0.66 [16.8]	9/16
C24250338	3/16	3/8	0.95 [24.1]	0.45 [11.5]	0.66 [16.8]	11/16
C24250410	1/4	10/32 UNF	0.91 [23.2]	0.14 [3.6]	0.68 [17.3]	1/2
C24250418	1/4	1/8	0.94 [23.8]	0.33 [8.5]	0.68 [17.3]	1/2
C24250428	1/4	1/4	0.91 [23.2]	0.41 [10.5]	0.68 [17.3]	9/16
C24250438	1/4	3/8	0.95 [24.2]	0.45 [11.5]	0.68 [17.3]	11/16
C24250448	1/4	1/2	1.07 [27.3]	0.57 [14.5]	0.68 [17.3]	7/8
C24250518	5/16	1/8	1.11 [28.2]	0.33 [8.5]	0.72 [18.2]	9/16
C24250528	5/16	1/4	1.02 [26.0]	0.41 [10.5]	0.72 [18.2]	9/16
C24250538	5/16	3/8	1.04 [26.5]	0.45 [11.5]	0.72 [18.2]	11/16
C24250548	5/16	1/2	0.96 [24.5]	0.57 [14.5]	0.72 [18.2]	7/8
C24250618	3/8	1/8	1.19 [30.1]	0.33 [8.5]	0.78 [19.9]	11/16
C24250628	3/8	1/4	1.22 [31.1]	0.41 [10.5]	0.78 [19.9]	11/16
C24250638	3/8	3/8	0.98 [24.8]	0.45 [11.5]	0.78 [19.9]	11/16
C24250648	3/8	1/2	0.94 [24.0]	0.57 [14.5]	0.78 [19.9]	7/8
C24250718	1/2	1/8	1.31 [33.4]	0.33 [8.5]	0.91 [23.0]	7/8
C24250728	1/2	1/4	1.39 [35.4]	0.41 [10.5]	0.91 [23.0]	7/8
C24250738	1/2	3/8	1.26 [31.9]	0.45 [11.5]	0.91 [23.0]	7/8
C24250748	1/2	1/2	1.24 [31.4]	0.57 [14.5]	0.91 [23.0]	7/8



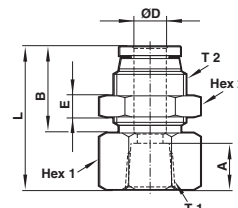
Straight adapter (female thread)

Part Number	ØD tube	T NPT Thread	L	A	B	Hex
C24260218	5/32	1/8	1.09 [27.6]	0.37 [9.5]	0.60 [15.3]	0.55 [14.00]
C24260228	5/32	1/4	1.17 [29.6]	0.45 [11.5]	0.60 [15.3]	0.69 [17.46]
C24260318	3/16	1/8	1.11 [28.2]	0.37 [9.5]	0.66 [16.8]	0.55 [14.00]
C24260328	3/16	1/4	1.19 [30.2]	0.45 [11.5]	0.66 [16.8]	0.69 [17.46]
C24260418	1/4	1/8	1.13 [28.7]	0.37 [9.5]	0.69 [17.4]	0.55 [14.00]
C24260428	1/4	1/4	1.21 [30.7]	0.45 [11.5]	0.69 [17.4]	0.67 [17.00]
C24260438	1/4	3/8	1.29 [32.7]	0.49 [12.5]	0.69 [17.4]	0.87 [22.00]
C24260518	5/16	1/8	1.14 [29.0]	0.37 [9.5]	0.74 [18.7]	0.55 [14.00]
C24260528	5/16	1/4	1.22 [31.0]	0.45 [11.5]	0.74 [18.7]	0.67 [17.00]
C24260538	5/16	3/8	1.26 [32.0]	0.49 [12.5]	0.74 [18.7]	0.87 [22.00]
C24260548	5/16	1/2	1.41 [35.9]	0.57 [14.5]	0.74 [18.7]	1.00 [25.4]
C24260618	3/8	1/8	1.25 [31.8]	0.37 [9.5]	0.80 [20.2]	0.69 [17.46]
C24260628	3/8	1/4	1.28 [32.6]	0.45 [11.5]	0.80 [20.2]	0.67 [17.00]
C24260638	3/8	3/8	1.34 [34.1]	0.49 [12.5]	0.80 [20.2]	0.87 [22.00]
C24260648	3/8	1/2	1.49 [37.8]	0.57 [14.5]	0.80 [20.2]	1.00 [25.4]
C24260728	1/2	1/4	1.43 [36.2]	0.45 [11.5]	0.87 [22.0]	0.67 [17.00]
C24260738	1/2	3/8	1.48 [37.6]	0.49 [12.5]	0.87 [22.0]	0.87 [22.0]



Straight adapter (internal hex only)

Part Number	ØD	T NPT or UNF Thread	L	A	B	Hex
C242A0210	5/32	10/32 UNF	0.82 [20.8]	0.14 [3.5]	0.60 [15.3]	0.09 [2.38]
C242A0218	5/32	1/8	0.83 [21.0]	0.33 [8.5]	0.60 [15.3]	0.13 [3.18]
C242A0228	5/32	1/4	0.87 [22.0]	0.41 [10.5]	0.60 [15.3]	0.13 [3.18]
C242A0310	3/16	10/32 UNF	0.88 [22.4]	0.14 [3.5]	0.67 [16.9]	0.09 [2.38]
C242A0318	3/16	1/8	0.89 [22.7]	0.33 [8.5]	0.67 [16.9]	0.13 [3.18]
C242A0328	3/16	1/4	0.93 [23.7]	0.41 [10.5]	0.67 [16.9]	0.13 [3.18]
C242A0410	1/4	10/32 UNF	0.90 [22.9]	0.14 [3.5]	0.69 [17.4]	0.09 [2.38]
C242A0418	1/4	1/8	0.93 [23.6]	0.33 [8.5]	0.69 [17.4]	0.19 [4.76]
C242A0428	1/4	1/4	0.94 [23.8]	0.41 [10.5]	0.69 [17.4]	0.19 [4.76]
C242A0518	5/16	1/8	1.08 [27.5]	0.33 [8.5]	0.74 [18.7]	0.16 [4.00]
C242A0528	5/16	1/4	1.00 [25.5]	0.41 [10.5]	0.74 [18.7]	0.24 [6.00]
C242A0538	5/16	3/8	1.00 [25.4]	0.45 [11.5]	0.74 [18.7]	0.24 [6.00]
C242A0618	3/8	1/8	1.13 [28.7]	0.33 [8.5]	0.80 [20.2]	0.25 [6.35]
C242A0628	3/8	1/4	1.11 [28.2]	0.41 [10.5]	0.80 [20.2]	0.25 [6.35]
C242A0638	3/8	3/8	1.11 [28.2]	0.45 [11.5]	0.80 [20.2]	0.31 [8.00]
C242A0648	3/8	1/2	1.15 [29.2]	0.57 [14.5]	0.80 [20.2]	0.31 [8.00]
C242A0728	1/2	1/4	1.39 [35.4]	0.41 [10.5]	0.87 [22.0]	0.37 [9.5]
C242A0738	1/2	3/8	1.30 [32.9]	0.45 [11.5]	0.87 [22.0]	0.37 [9.5]
C242A0748	1.2	1/2	1.30 [33.0]	0.57 [14.5]	0.87 [22.0]	0.37 [9.5]



Female bulkhead

Part Number	ØD tube	T1 NPT Thread	L	E	T2	A	Hex1	B	Hex2
C24320218	5/32	1/8	1.07 [27.1]	0.20 [5]	M12*1.0p	0.35 [9]	14*16.1	0.64 [16.3]	14*16.1
C24320418	1/4	1/8	1.22 [30.9]	0.20 [5]	M14*1.0p	0.37 [9.5]	17*19.6	0.69 [17.4]	17*19.6
C24320428	1/4	1/4	1.22 [30.9]	0.20 [5]	M14*1.0p	0.45 [11.5]	17*19.6	0.69 [17.4]	17*19.6
C24320628	3/8	1/4	1.31 [33.3]	0.20 [5]	M20*1.0p	0.45 [11.5]	24*27.7	0.80 [20.2]	24*27.7
C24320638	3/8	3/8	1.35 [34.3]	0.20 [5]	M20*1.0p	0.49 [12.5]	24*27.7	0.80 [20.2]	24*27.7
C24320728	1/2	1/4	1.54 [39.0]	0.20 [5]	M22*1.0p	0.49 [12.5]	26*30.0	0.87 [22.0]	24*27.7
C24320738	1/2	3/8	1.54 [39.0]	0.20 [5]	M22*1.0p	0.49 [12.5]	26*30.0	0.87 [22.0]	24*27.7
C24320748	1/2	1/2	1.61 [41.0]	0.20 [5]	M22*1.0p	0.57 [14.5]	26*30.0	0.87 [22.0]	24*27.7

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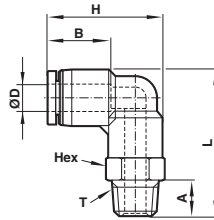
FITTINGS, TUBING & ACCESSORIES

15

PNEUFIT® C PUSH-IN FITTINGS

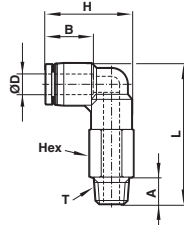
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



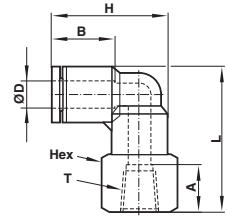
90° Swivel elbow

Part Number	ØD	T NPT or D UNF Thread	L	H	A	B	Hex	
C24470210	5/32	10/32 UNF	0.41 [10.5]	0.84 [21.4]	0.73 [18.6]	0.14 [3.6]	0.64 [16.2]	3/8
C24470218	5/32	1/8	0.41 [10.5]	0.98 [25.0]	0.73 [18.6]	0.33 [8.5]	0.64 [16.2]	7/16
C24470228	5/32	1/4	0.41 [10.5]	1.10 [28.0]	0.73 [18.6]	0.41 [10.5]	0.64 [16.2]	9/16
C24470310	3/16	10/32 UNF	0.45 [11.5]	0.92 [23.4]	0.75 [19.1]	0.14 [3.6]	0.66 [16.8]	7/16
C24470318	3/16	1/8	0.45 [11.5]	0.98 [25.0]	0.75 [19.1]	0.33 [8.5]	0.66 [16.8]	7/16
C24470328	3/16	1/4	0.45 [11.5]	1.10 [28.0]	0.75 [19.1]	0.41 [10.5]	0.66 [16.8]	9/16
C24470338	3/16	3/8	0.45 [11.5]	1.14 [29.0]	0.75 [19.1]	0.45 [11.5]	0.66 [16.8]	11/16
C24470410	1/4	10/32 UNF	0.51 [13.0]	1.02 [25.9]	0.80 [20.4]	0.14 [3.6]	0.68 [17.3]	1/2
C24470418	1/4	1/8	0.51 [13.0]	1.09 [27.8]	0.80 [20.4]	0.33 [8.5]	0.68 [17.3]	1/2
C24470428	1/4	1/4	0.51 [13.0]	1.20 [30.5]	0.80 [20.4]	0.41 [10.5]	0.68 [17.3]	9/16
C24470438	1/4	3/8	0.51 [13.0]	1.24 [31.5]	0.80 [20.4]	0.45 [11.5]	0.68 [17.3]	11/16
C24470518	5/16	1/8	0.57 [14.5]	1.16 [29.4]	0.88 [22.3]	0.33 [8.5]	0.72 [18.2]	9/16
C24470528	5/16	1/4	0.57 [14.5]	1.24 [31.4]	0.88 [22.3]	0.41 [10.5]	0.72 [18.2]	9/16
C24470538	5/16	3/8	0.57 [14.5]	1.28 [32.4]	0.88 [22.3]	0.45 [11.5]	0.72 [18.2]	11/16
C24470548	5/16	1/2	0.57 [14.5]	1.39 [35.4]	0.88 [22.3]	0.57 [14.5]	0.72 [18.2]	7/8
C24470618	3/8	1/8	0.69 [17.5]	1.18 [30.0]	0.94 [23.9]	0.33 [8.5]	0.78 [19.9]	11/16
C24470628	3/8	1/4	0.69 [17.5]	1.26 [32.0]	0.94 [23.9]	0.41 [10.5]	0.78 [19.9]	11/16
C24470638	3/8	3/8	0.69 [17.5]	1.30 [33.0]	0.94 [23.9]	0.45 [11.5]	0.78 [19.9]	11/16
C24470648	3/8	1/2	0.69 [17.5]	1.42 [36.0]	0.94 [23.9]	0.57 [14.5]	0.78 [19.9]	7/8
C24470728	1/2	1/4	0.83 [21.0]	1.40 [35.5]	1.12 [28.5]	0.41 [10.5]	0.91 [23.0]	3/4
C24470738	1/2	3/8	0.83 [21.0]	1.44 [36.5]	1.12 [28.5]	0.45 [11.5]	0.91 [23.0]	3/4
C24470748	1/2	1/2	0.83 [21.0]	1.56 [39.5]	1.12 [28.5]	0.57 [14.5]	0.91 [23.0]	7/8



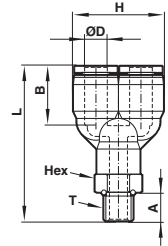
90° Swivel elbow adapter (extended)

Part Number	ØD	T NPT or D UNF Thread	L	H	A	B	Hex
C24540210	5/32	10/32 UNF	0.41 [10.5]	1.28 [32.5]	0.73 [18.6]	0.14 [3.6]	0.64 [16.2] 3/8
C24540218	5/32	1/8	0.41 [10.5]	1.40 [35.5]	0.73 [18.6]	0.33 [8.5]	0.64 [16.2] 7/16
C24540228	5/32	1/4	0.41 [10.5]	1.52 [38.5]	0.73 [18.6]	0.41 [10.5]	0.64 [16.2] 9/16
C24540318	3/16	1/8	0.45 [11.5]	1.38 [35.0]	0.75 [19.1]	0.33 [8.5]	0.66 [16.8] 7/16
C24540328	3/16	1/4	0.45 [11.5]	1.52 [38.5]	0.75 [19.1]	0.41 [10.5]	0.66 [16.8] 9/16
C24540338	3/16	3/8	0.45 [11.5]	1.52 [38.5]	0.75 [19.1]	0.45 [11.5]	0.66 [16.8] 11/16
C24540410	1/4	10/32 UNF	0.51 [13.0]	1.48 [37.5]	0.80 [20.4]	0.14 [3.6]	0.68 [17.3] 1/2
C24540418	1/4	1/8	0.51 [13.0]	1.63 [41.3]	0.80 [20.4]	0.33 [8.5]	0.68 [17.3] 1/2
C24540428	1/4	1/4	0.51 [13.0]	1.73 [44.0]	0.80 [20.4]	0.41 [10.5]	0.68 [17.3] 9/16
C24540438	1/4	3/8	0.51 [13.0]	1.77 [45.0]	0.80 [20.4]	0.45 [11.5]	0.68 [17.3] 11/16
C24540518	5/16	1/8	0.57 [14.5]	1.75 [44.4]	0.88 [22.3]	0.33 [8.5]	0.72 [18.2] 9/16
C24540528	5/16	1/4	0.57 [14.5]	1.83 [46.4]	0.88 [22.3]	0.41 [10.5]	0.72 [18.2] 9/16
C24540538	5/16	3/8	0.57 [14.5]	1.98 [50.4]	0.88 [22.3]	0.45 [11.5]	0.72 [18.2] 11/16
C24540618	3/8	1/8	0.69 [17.5]	1.89 [48.0]	0.94 [23.9]	0.33 [8.5]	0.78 [19.9] 11/16
C24540628	3/8	1/4	0.69 [17.5]	1.97 [50.0]	0.94 [23.9]	0.41 [10.5]	0.78 [19.9] 11/16
C24540638	3/8	3/8	0.69 [17.5]	2.01 [51.0]	0.94 [23.9]	0.45 [11.5]	0.78 [19.9] 11/16
C24540648	3/8	1/2	0.69 [17.5]	2.13 [54.0]	0.94 [23.9]	0.57 [14.5]	0.78 [19.9] 7/8
C24540728	1/2	1/4	0.83 [21.0]	2.26 [57.5]	1.12 [28.5]	0.41 [10.5]	0.91 [23.0] 3/4
C24540738	1/2	3/8	0.83 [21.0]	2.30 [58.5]	1.12 [28.5]	0.45 [11.5]	0.91 [23.0] 3/4
C24540748	1/2	1/2	0.83 [21.0]	2.42 [61.5]	1.12 [28.5]	0.57 [14.5]	0.91 [23.0] 7/8



90° Swivel elbow adapter (female)

Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24480210	5/32	10/32 UNF	0.41 [10.5]	0.85 [21.5]	0.73 [18.6]	0.28 [7.0]	0.64 [16.2]	0.39 [10]
C24480218	5/32	1/8	0.41 [10.5]	0.89 [22.5]	0.73 [18.6]	0.35 [9.0]	0.64 [16.2]	0.55 [14]
C24480228	5/32	1/4	0.41 [10.5]	0.89 [22.5]	0.73 [18.6]	0.35 [9.0]	0.64 [16.2]	0.69 [17.46]
C24480310	3/16	10/32 UNF	0.45 [11.5]	0.81 [20.5]	0.75 [19.1]	0.28 [7.0]	0.66 [16.8]	0.43 [11]
C24480318	3/16	1/8	0.45 [11.5]	0.89 [22.5]	0.75 [19.1]	0.35 [9.0]	0.66 [16.8]	0.55 [14]
C24480328	3/16	1/4	0.45 [11.5]	0.89 [22.5]	0.75 [19.1]	0.35 [9.0]	0.66 [16.8]	0.69 [17.46]
C24480410	1/4	10/32 UNF	0.51 [13.0]	0.83 [21.0]	0.80 [20.4]	0.20 [5.0]	0.68 [17.3]	0.50 [12.7]
C24480418	1/4	1/8	0.51 [13.0]	0.98 [25.0]	0.80 [20.4]	0.35 [9.0]	0.68 [17.3]	0.55 [14]
C24480428	1/4	1/4	0.51 [13.0]	1.06 [27.0]	0.80 [20.4]	0.43 [11.0]	0.68 [17.3]	0.69 [17.46]
C24480438	1/4	3/8	0.51 [13.0]	1.10 [28.0]	0.80 [20.4]	0.47 [12.0]	0.68 [17.3]	0.87 [22]
C24480518	5/16	1/8	0.57 [14.5]	1.02 [25.9]	0.88 [22.3]	0.35 [9.0]	0.72 [18.2]	0.55 [14]
C24480528	5/16	1/4	0.57 [14.5]	1.10 [27.9]	0.88 [22.3]	0.43 [11.0]	0.72 [18.2]	0.69 [17.46]
C24480538	5/16	3/8	0.57 [14.5]	1.14 [28.9]	0.88 [22.3]	0.47 [12.0]	0.72 [18.2]	0.87 [22]
C24480628	3/8	1/4	0.69 [17.5]	1.12 [28.5]	0.94 [23.9]	0.43 [11.0]	0.78 [19.9]	0.69 [17.46]
C24480638	3/8	3/8	0.69 [17.5]	1.16 [29.5]	0.94 [23.9]	0.47 [12.0]	0.78 [19.9]	0.87 [22]
C24480648	3/8	1/2	0.69 [17.5]	1.30 [33.0]	0.94 [23.9]	0.57 [14.5]	0.78 [19.9]	0.96 [24.5]
C24480738	1/2	3/8	0.83 [21.0]	1.30 [33.0]	1.12 [28.5]	0.47 [12.0]	0.91 [23.0]	0.87 [22]
C24480748	1/2	1/2	0.83 [21.0]	1.44 [36.5]	1.12 [28.5]	0.57 [14.5]	0.91 [23.0]	0.96 [24.5]



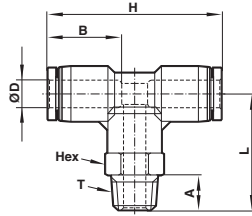
Swivel Y adapter

Part Number	ØD	T NPT or D UNF Thread	L	H	A	B	Hex
C24880210	5/32	10/32 UNF	0.41 [10.5]	1.50 [38.1]	0.83 [21.0]	0.14 [3.6]	0.64 [16.2] 3/8
C24880218	5/32	1/8	0.41 [10.5]	1.64 [41.7]	0.83 [21.0]	0.33 [8.5]	0.64 [16.2] 7/16
C24880228	5/32	1/4	0.41 [10.5]	1.76 [44.7]	0.83 [21.0]	0.41 [10.5]	0.64 [16.2] 9/16
C24880310	3/16	10/32 UNF	0.45 [11.5]	1.65 [41.8]	0.91 [23.0]	0.14 [3.6]	0.66 [16.8] 7/16
C24880318	3/16	1/8	0.45 [11.5]	1.79 [45.4]	0.91 [23.0]	0.33 [8.5]	0.66 [16.8] 7/16
C24880328	3/16	1/4	0.45 [11.5]	1.91 [48.4]	0.91 [23.0]	0.41 [10.5]	0.66 [16.8] 9/16
C24880338	3/16	3/8	0.45 [11.5]	1.94 [49.4]	0.91 [23.0]	0.45 [11.5]	0.66 [16.8] 11/16
C24880410	1/4	10/32 UNF	0.51 [13.0]	1.80 [45.8]	1.02 [26.0]	0.14 [3.6]	0.68 [17.3] 1/2
C24880418	1/4	1/8	0.51 [13.0]	1.88 [47.7]	1.02 [26.0]	0.33 [8.5]	0.68 [17.3] 1/2
C24880428	1/4	1/4	0.51 [13.0]	1.98 [50.4]	1.02 [26.0]	0.41 [10.5]	0.68 [17.3] 9/16
C24880438	1/4	3/8	0.51 [13.0]	2.02 [51.4]	1.02 [26.0]	0.45 [11.5]	0.68 [17.3] 11/16
C24880518	5/16	1/8	0.57 [14.5]	1.85 [47.0]	1.14 [29.0]	0.33 [8.5]	0.72 [18.2] 9/16
C24880528	5/16	1/4	0.57 [14.5]	1.93 [49.0]	1.14 [29.0]	0.41 [10.5]	0.72 [18.2] 9/16
C24880538	5/16	3/8	0.57 [14.5]	1.97 [50.0]	1.14 [29.0]	0.45 [11.5]	0.72 [18.2] 11/16
C24880548	5/16	1/2	0.57 [14.5]	2.09 [53.0]	1.14 [29.0]	0.57 [14.5]	0.72 [18.2] 7/8
C24880618	3/8	1/8	0.69 [17.5]	2.07 [52.7]	1.38 [35.0]	0.33 [8.5]	0.78 [19.9] 11/16
C24880628	3/8	1/4	0.69 [17.5]	2.15 [54.7]	1.38 [35.0]	0.41 [10.5]	0.78 [19.9] 11/16
C24880638	3/8	3/8	0.69 [17.5]	2.19 [55.7]	1.38 [35.0]	0.45 [11.5]	0.78 [19.9] 11/16
C24880648	3/8	1/2	0.69 [17.5]	2.31 [58.7]	1.38 [35.0]	0.57 [14.5]	0.78 [19.9] 7/8
C24880728	1/2	1/4	0.83 [21.0]	2.54 [64.6]	1.65 [42.0]	0.41 [10.5]	0.91 [23.0] 3/4
C24880738	1/2	3/8	0.83 [21.0]	2.58 [65.6]	1.65 [42.0]	0.45 [11.5]	0.91 [23.0] 3/4
C24880748	1/2	1/2	0.83 [21.0]	2.70 [68.6]	1.65 [42.0]	0.57 [14.5]	0.91 [23.0] 7/8

PNEUFIT® C PUSH-IN FITTINGS

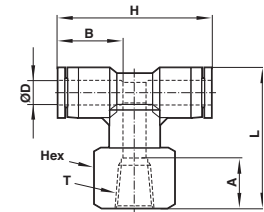
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



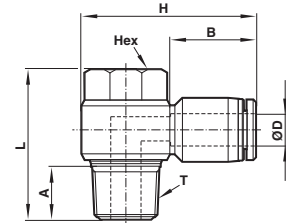
Swivel tee adapter

Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24670210	5/32	10/32 UNF	0.41 [10.5]	0.84 [21.4]	1.46 [37.0]	0.14 [3.6]	0.64 [16.2]	3/8
C24670218	5/32	1/8	0.41 [10.5]	0.98 [25.0]	1.46 [37.0]	0.33 [8.5]	0.64 [16.2]	7/16
C24670228	5/32	1/4	0.41 [10.5]	1.10 [28.0]	1.46 [37.0]	0.41 [10.5]	0.64 [16.2]	9/16
C24670310	3/16	10/32 UNF	0.45 [11.5]	0.92 [23.4]	1.50 [38.2]	0.14 [3.6]	0.66 [16.8]	7/16
C24670318	3/16	1/8	0.45 [11.5]	0.98 [25.0]	1.50 [38.2]	0.33 [8.5]	0.66 [16.8]	7/16
C24670328	3/16	1/4	0.45 [11.5]	1.10 [28.0]	1.50 [38.2]	0.41 [10.5]	0.66 [16.8]	9/16
C24670338	3/16	3/8	0.45 [11.5]	1.14 [29.0]	1.50 [38.2]	0.45 [11.5]	0.66 [16.8]	11/16
C24670410	1/4	10/32 UNF	0.51 [13.0]	1.02 [25.9]	1.61 [40.8]	0.14 [3.6]	0.68 [17.3]	1/2
C24670418	1/4	1/8	0.51 [13.0]	1.09 [27.8]	1.61 [40.8]	0.33 [8.5]	0.68 [17.3]	1/2
C24670428	1/4	1/4	0.51 [13.0]	1.20 [30.5]	1.61 [40.8]	0.41 [10.5]	0.68 [17.3]	9/16
C24670438	1/4	3/8	0.51 [13.0]	1.24 [31.5]	1.61 [40.8]	0.45 [11.5]	0.68 [17.3]	11/16
C24670518	5/16	1/8	0.57 [14.5]	1.16 [29.4]	1.72 [43.7]	0.33 [8.5]	0.72 [18.2]	9/16
C24670528	5/16	1/4	0.57 [14.5]	1.24 [31.4]	1.72 [43.7]	0.41 [10.5]	0.72 [18.2]	9/16
C24670538	5/16	3/8	0.57 [14.5]	1.28 [32.4]	1.72 [43.7]	0.45 [11.5]	0.72 [18.2]	11/16
C24670548	5/16	1/2	0.57 [14.5]	1.39 [35.4]	1.72 [43.7]	0.57 [14.5]	0.72 [18.2]	7/8
C24670618	3/8	1/8	0.69 [17.5]	1.18 [30.0]	1.88 [47.7]	0.33 [8.5]	0.78 [19.9]	11/16
C24670628	3/8	1/4	0.69 [17.5]	1.26 [32.0]	1.88 [47.7]	0.41 [10.5]	0.78 [19.9]	11/16
C24670638	3/8	3/8	0.69 [17.5]	1.30 [33.0]	1.88 [47.7]	0.45 [11.5]	0.78 [19.9]	11/16
C24670648	3/8	1/2	0.69 [17.5]	1.42 [36.0]	1.88 [47.7]	0.57 [14.5]	0.78 [19.9]	7/8
C24670728	1/2	1/4	0.83 [21.0]	1.40 [35.5]	2.22 [56.5]	0.41 [10.5]	0.91 [23.0]	3/4
C24670738	1/2	3/8	0.83 [21.0]	1.44 [36.5]	2.22 [56.5]	0.45 [11.5]	0.91 [23.0]	3/4
C24670748	1/2	1/2	0.83 [21.0]	1.56 [39.5]	2.22 [56.5]	0.57 [14.5]	0.91 [23.0]	7/8



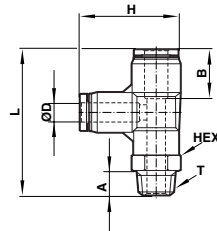
Swivel tee adapter

Part Number	ØD	T NPT or UNF Thrd	D	L	H	A	B	Hex
C246C0218	5/32	1/8	0.41 [10.5]	0.89 [22.5]	1.46 [37]	0.35 [9.0]	0.64 [16.2]	0.55 [14]
C246C0318	3/16	1/8	0.45 [11.5]	0.89 [22.5]	1.50 [38.2]	0.35 [9.0]	0.66 [16.8]	0.55 [14]
C246C0328	3/16	1/4	0.45 [11.5]	0.89 [22.5]	1.50 [38.2]	0.35 [9.0]	0.66 [16.8]	0.69 [17.5]
C246C0418	1/4	1/8	0.51 [13.0]	0.98 [25.0]	1.61 [40.8]	0.35 [9.0]	0.68 [17.3]	0.55 [14]
C246C0428	1/4	1/4 UNF	0.51 [13.0]	1.06 [27.0]	1.61 [40.8]	0.43 [11.0]	0.68 [17.3]	0.69 [17.5]
C246C0518	5/16	1/8	0.57 [14.5]	1.02 [26.0]	1.72 [43.7]	0.35 [9.0]	0.72 [18.2]	0.55 [14]
C246C0528	5/16	1/4	0.57 [14.5]	1.10 [28.0]	1.72 [43.7]	0.43 [11.0]	0.72 [18.2]	0.69 [17.5]
C246C0538	5/16	3/8	0.57 [14.5]	1.14 [29.0]	1.72 [43.7]	0.47 [12.0]	0.72 [18.2]	0.87 [22]
C246C0628	3/8	1/4	0.69 [17.5]	1.12 [28.5]	1.88 [47.7]	0.43 [11.0]	0.78 [19.9]	0.69 [17.5]
C246C0638	3/8	3/8	0.69 [17.5]	1.16 [29.5]	1.88 [47.7]	0.47 [12.0]	0.78 [19.9]	0.87 [22]
C246C0738	1/2	3/8	0.83 [21.0]	1.30 [33.0]	2.22 [56.5]	0.47 [12.0]	0.91 [23.0]	0.87 [22]
C246C0748	1/2	1/2	0.83 [21.0]	1.44 [36.5]	2.22 [56.5]	0.57 [14.5]	0.91 [23.0]	0.96 [24.5]



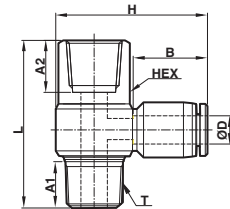
Banjo

Part Number	L	T NPT or UNF Thread	H	ØD	B	A	Hex
C2R510210	0.72 [18.2]	10/32 UNF	0.99 [25.1]	5/32	0.64 [16.3]	0.14 [3.6]	0.31 [8.0]
C2R510218	0.98 [25.0]	1/8	1.20 [30.5]	5/32	0.64 [16.3]	0.31 [8.0]	0.43 [11.0]
C2R510410	0.72 [18.2]	10/32 UNF	1.13 [28.7]	1/4	0.69 [17.4]	0.14 [3.6]	0.31 [8.0]
C2R510418	0.98 [25.0]	1/8	1.26 [32.0]	1/4	0.69 [17.4]	0.31 [8.0]	0.43 [11.0]
C2R510428	1.13 [28.8]	1/4	1.41 [35.9]	1/4	0.69 [17.4]	0.39 [10.0]	0.59 [15.0]
C2R510518	0.98 [25.0]	1/8	1.30 [33.0]	5/16	0.74 [18.7]	0.31 [8.0]	0.43 [11.0]
C2R510528	1.13 [28.8]	1/4	1.45 [36.8]	5/16	0.74 [18.7]	0.39 [10.0]	0.59 [15.0]
C2R510628	1.13 [28.8]	1/4	1.48 [37.5]	3/8	0.80 [20.2]	0.39 [10.0]	0.59 [15.0]
C2R510638	1.33 [33.7]	3/8	1.66 [42.1]	3/8	0.80 [20.2]	0.43 [11.0]	0.75 [19.0]
C2R510648	1.55 [39.4]	1/2	1.86 [47.3]	3/8	0.80 [20.2]	0.55 [14.0]	0.94 [24.0]
C2R510738	1.33 [33.7]	3/8	1.78 [45.1]	1/2	0.87 [22.0]	0.43 [11.0]	0.75 [19.0]
C2R510748	1.55 [39.4]	1/2	1.99 [50.5]	1/2	0.87 [22.0]	0.55 [14.0]	0.94 [24.0]



Swivel side tee adapter

Part Number	ØD	T NPT or UNF Thread	D	L	H	A	B	Hex
C24680210	5/32	10/32 UNF	0.41 [10.5]	1.66 [42.1]	0.98 [25.0]	0.14 [3.6]	0.64 [16.2]	3/8
C24680218	5/32	1/8	0.41 [10.5]	1.80 [45.7]	0.98 [25.0]	0.33 [8.5]	0.64 [16.2]	7/16
C24680228	5/32	1/4	0.41 [10.5]	1.92 [48.7]	0.98 [25.0]	0.41 [10.5]	0.64 [16.2]	9/16
C24680310	3/16	10/32 UNF	0.45 [11.5]	1.63 [41.5]	0.99 [25.1]	0.14 [3.6]	0.66 [16.8]	7/16
C24680318	3/16	1/8	0.45 [11.5]	1.78 [45.1]	0.99 [25.1]	0.33 [8.5]	0.66 [16.8]	7/16
C24680328	3/16	1/4	0.45 [11.5]	1.89 [48.1]	0.99 [25.1]	0.41 [10.5]	0.66 [16.8]	9/16
C24680338	3/16	3/8	0.45 [11.5]	1.93 [49.1]	0.99 [25.1]	0.45 [11.5]	0.66 [16.8]	11/16
C24680410	1/4	10/32 UNF	0.51 [13.0]	1.87 [47.4]	1.10 [28.0]	0.14 [3.6]	0.68 [17.3]	1/2
C24680418	1/4	1/8	0.51 [13.0]	1.94 [49.3]	1.10 [28.0]	0.33 [8.5]	0.68 [17.3]	1/2
C24680428	1/4	1/4	0.51 [13.0]	2.05 [52.0]	1.10 [28.0]	0.41 [10.5]	0.68 [17.3]	9/16
C24680438	1/4	3/8	0.51 [13.0]	2.09 [53.0]	1.10 [28.0]	0.45 [11.5]	0.68 [17.3]	11/16
C24680518	5/16	1/8	0.57 [14.5]	2.11 [53.7]	1.22 [30.9]	0.33 [8.5]	0.72 [18.2]	9/16
C24680528	5/16	1/4	0.57 [14.5]	2.19 [55.7]	1.22 [30.9]	0.41 [10.5]	0.72 [18.2]	9/16
C24680538	5/16	3/8	0.57 [14.5]	2.23 [56.7]	1.22 [30.9]	0.45 [11.5]	0.72 [18.2]	11/16
C24680548	5/16	1/2	0.57 [14.5]	2.35 [59.7]	1.22 [30.9]	0.57 [14.5]	0.72 [18.2]	7/8
C24680618	3/8	1/8	0.69 [17.5]	2.49 [63.3]	1.37 [34.7]	0.33 [8.5]	0.78 [19.9]	11/16
C24680628	3/8	1/4	0.69 [17.5]	2.57 [65.3]	1.37 [34.7]	0.41 [10.5]	0.78 [19.9]	11/16
C24680638	3/8	3/8	0.69 [17.5]	2.61 [66.3]	1.37 [34.7]	0.45 [11.5]	0.78 [19.9]	11/16
C24680648	3/8	1/2	0.69 [17.5]	2.73 [69.3]	1.37 [34.7]	0.57 [14.5]	0.78 [19.9]	7/8
C24680728	1/2	1/4	0.83 [21.0]	2.26 [57.3]	1.61 [40.8]	0.41 [10.5]	0.91 [23.0]	3/4
C24680738	1/2	3/8	0.83 [21.0]	2.30 [58.3]	1.61 [40.8]	0.45 [11.5]	0.91 [23.0]	3/4
C24680748	1/2	1/2	0.83 [21.0]	2.41 [61.3]	1.61 [40.8]	0.57 [14.5]	0.91 [23.0]	7/8



Banjo with top port

Part Number	L	T NPT or UNF Thread	H	ØD	B	A1	A2	Hex
C2E510218	1.22 [30.9]	1/8	1.21 [30.8]	5/32	0.64 [16.2]	0.33 [8.5]	0.33 [8.5]	9/16
C2D510410	0.79 [20.0]	10/32 UNF	1.13 [28.7]	1/4	0.52 [13.1]	0.14 [3.6]	0.24 [6.0]	5/16
C2E510418	1.22 [30.9]	1/8	1.26 [32.0]	1/4	0.69 [17.4]	0.33 [8.5]	0.33 [8.5]	9/16
C2F510428	1.41 [35.8]	1/4	1.41 [35.9]	1/4	0.69 [17.4]	0.41 [10.5]	0.43 [11.0]	11/16
C2E510518	1.22 [30.9]	1/8	1.33 [33.7]	5/16	0.75 [19.1]	0.33 [8.5]	0.33 [8.5]	9/16
C2F510528	1.41 [35.8]	1/4	1.48 [37.6]	5/16	0.75 [19.1]	0.41 [10.5]	0.43 [11.0]	11/16
C2F510628	1.41 [35.8]	1/4	1.58 [40.1]	3/8	0.80 [20.2]	0.41 [10.5]	0.43 [11.0]	11/16
C2G510638	1.61 [41.0]	3/8	1.66 [42.1]	3/8	0.78 [19.8]	0.45 [11.5]	0.51 [13.0]	7/8
C2G510738	1.61 [41.0]	3/8	1.78 [45.2]	1/2	0.87 [22.0]	0.45 [11.5]	0.51 [13.0]	7/8

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FIT-11

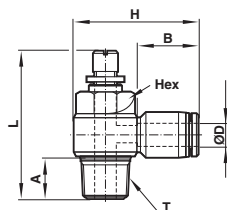
FITTINGS, TUBING & ACCESSORIES

15

PNEUFIT® C PUSH-IN FITTINGS

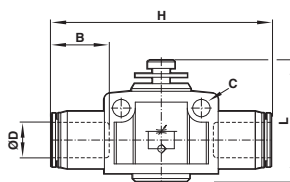
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



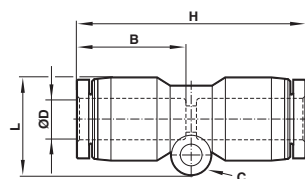
Banjo flow control (regulating out)

Part Number	MI L	MA	T NPT or UNF Thread	H	ØD	B	A	HEX
C2VA00210	1.07 [27.2]	1.19 [30.2]	10/32 UNF	0.99 [25.1]	5/32	0.64 [16.3]	0.14 [3.6]	0.31 [8]
C2VA00218	1.37 [34.9]	1.58 [40.1]	1/8	1.20 [30.5]	5/32	0.64 [16.3]	0.31 [8]	0.43 [11.0]
C2VA00310	1.07 [27.2]	1.19 [30.2]	10/32 UNF	1.05 [26.6]	3/16	0.66 [16.8]	0.14 [3.6]	0.31 [8.0]
C2VA00318	1.37 [34.9]	1.58 [40.1]	1/8	1.24 [31.4]	3/16	0.66 [16.8]	0.31 [8.0]	0.43 [11.0]
C2VA00328	1.57 [40.0]	1.80 [45.7]	1/4	1.39 [35.3]	3/16	0.66 [16.8]	0.39 [10.0]	0.59 [15.0]
C2VA00338	1.84 [46.7]	2.17 [55.0]	3/8	1.54 [39.1]	3/16	0.66 [16.8]	0.43 [11.0]	0.75 [19.0]
C2VA00410	1.07 [27.2]	1.19 [30.2]	10/32 UNF	1.13 [28.7]	1/4	0.69 [17.4]	0.14 [3.6]	0.31 [8.0]
C2VA00418	1.37 [34.9]	1.58 [40.1]	1/8	1.26 [32.0]	1/4	0.69 [17.4]	0.31 [8.0]	0.43 [11.0]
C2VA00428	1.57 [40.0]	1.80 [45.7]	1/4	1.41 [35.9]	1/4	0.69 [17.4]	0.39 [10.0]	0.59 [15.0]
C2VA00438	1.84 [46.7]	2.17 [55.0]	3/8	1.56 [39.7]	1/4	0.69 [17.4]	0.43 [11.0]	0.75 [19.0]
C2VA00518	1.37 [34.9]	1.58 [40.1]	1/8	1.30 [33.0]	5/16	0.74 [18.7]	0.31 [8.0]	0.43 [11.0]
C2VA00528	1.57 [40.0]	1.80 [45.7]	1/4	1.45 [36.8]	5/16	0.74 [18.7]	0.39 [10.0]	0.59 [15.0]
C2VA00538	1.84 [46.7]	2.17 [55.0]	3/8	1.58 [40.1]	5/16	0.74 [18.7]	0.43 [11.0]	0.75 [19.0]
C2VA00548	2.09 [53.0]	2.37 [60.2]	1/2	1.80 [45.8]	5/16	0.74 [18.7]	0.55 [14.0]	0.94 [24.0]
C2VA00628	1.57 [40.0]	1.80 [45.7]	1/4	1.48 [37.5]	3/8	0.80 [20.2]	0.39 [10.0]	0.59 [15.0]
C2VA00638	1.84 [46.7]	2.17 [55.0]	3/8	1.66 [42.1]	3/8	0.80 [20.2]	0.43 [11.0]	0.75 [19.0]
C2VA00648	2.09 [53.0]	2.37 [60.2]	1/2	1.86 [47.3]	3/8	0.80 [20.2]	0.55 [14.0]	0.94 [24.0]
C2VA00738	1.84 [46.7]	2.17 [55.0]	3/8	1.78 [45.1]	1/2	0.87 [22.0]	0.43 [11.0]	0.75 [19.0]
C2VA00748	2.09 [53.0]	2.37 [60.2]	1/2	1.99 [50.5]	1/2	0.87 [22.0]	0.55 [14.0]	0.94 [24.0]



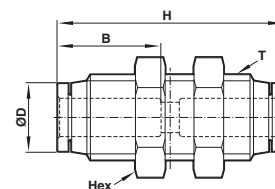
In line flow control

Part Number	MIN L	MAX	C	H	ØD	B
C20GE0200	1.18 [29.9]	1.31 [33.3]	0.13 [3.3]	1.78 [45.1]	5/32	0.64 [16.3]
C20GE0300	1.38 [35.0]	1.56 [39.5]	0.17 [4.3]	1.98 [50.3]	3/16	0.66 [16.8]
C20GE0400	1.38 [35.0]	1.56 [39.5]	0.17 [4.3]	1.98 [50.3]	1/4	0.69 [17.4]
C20GE0500	1.47 [37.4]	1.66 [42.1]	0.17 [4.4]	2.19 [55.7]	5/16	0.74 [18.7]
C20GE0600	1.72 [43.8]	1.93 [49.0]	0.17 [4.4]	2.41 [61.2]	3/8	0.80 [20.2]
C20GE0700	1.87 [47.4]	2.11 [53.6]	0.17 [4.4]	2.75 [69.8]	1/2	0.87 [22.0]



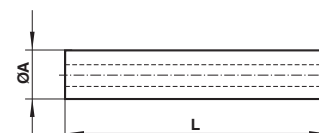
Straight union

Part Number	ØD	H	L	C	B	D
C20200200	5/32	1.36 [34.6]	0.50 [12.75]	0.13 [3.3]	0.64 [16.3]	0.41 [10.5]
C20200300	3/16	1.40 [35.5]	0.59 [15.1]	0.14 [3.5]	0.66 [16.8]	0.45 [11.5]
C20200400	1/4	1.45 [36.8]	0.64 [16.3]	0.14 [3.5]	0.69 [17.4]	0.51 [13.0]
C20200500	5/16	1.55 [39.4]	0.78 [19.85]	0.17 [4.3]	0.74 [18.7]	0.57 [14.5]
C20200600	3/8	1.68 [42.6]	0.85 [21.5]	0.18 [4.5]	0.80 [20.2]	0.69 [17.5]
C20200700	1/2	1.93 [48.9]	0.96 [24.5]	0.18 [4.5]	0.87 [22.0]	0.83 [21.0]



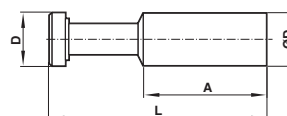
Bulkhead union

Part Number	ØD	H	B	T	Hex
C20290200	5/32	1.40 [35.5]	0.64 [16.3]	M12*1.0p	5[14*16.1]
C20290300	3/16	1.44 [36.5]	0.66 [16.8]	M14*1.0p	5[17*19.6]
C20290400	1/4	1.53 [38.8]	0.69 [17.4]	M14*1.0p	5[17*19.6]
C20290500	5/16	1.66 [42.2]	0.74 [18.7]	M16*1.0p	5[19*21.9]
C20290600	3/8	1.70 [43.2]	0.80 [20.2]	M20*1.0p	5[24*27.7]
C20290700	1/2	1.95 [49.5]	0.87 [22.0]	M22*1.0p	5[26*30.0]



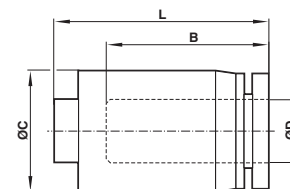
Stem union

Part Number	ØA	L
C20220200	5/32	1.42 [36.0]
C20220300	3/16	1.50 [38.0]
C20220400	1/4	1.57 [40.0]
C20220500	5/16	1.65 [42.0]
C20220600	3/8	1.77 [45.0]
C20220700	1/2	1.97 [50.0]



Plug

Part Number	ØD	D	A	L
C00040400	5/32	5/32	0.71 [18.0]	1.18 [30.0]
C20040300	3/16	3/16	0.75 [19.0]	1.30 [33.0]
C20040400	1/4	1/4	0.79 [20.0]	1.34 [34.0]
C20040500	5/16	5/16	0.87 [22.0]	1.50 [38.0]
C20040600	3/8	3/8	1.02 [26.0]	1.65 [42.0]
C20040700	1/2	1/2	1.10 [28.0]	1.81 [46.0]



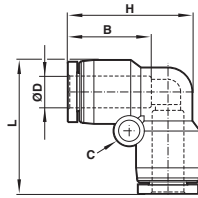
Cap (female plug)

Part Number	ØD	B	ØC	L
C20120200	5/32	0.64 [16.3]	0.41 [10.5]	0.74 [18.9]
C20120300	3/16	0.66 [16.8]	0.45 [11.5]	0.74 [18.8]
C20120400	1/4	0.69 [17.4]	0.51 [13.0]	0.78 [19.9]
C20120500	5/16	0.74 [18.7]	0.57 [14.5]	0.85 [21.5]
C20120600	3/8	0.80 [20.2]	0.69 [17.5]	0.90 [22.8]
C20120700	1/2	0.87 [22.0]	0.83 [21.0]	1.02 [26.0]

PNEUFIT® C PUSH-IN FITTINGS

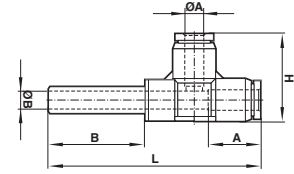
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



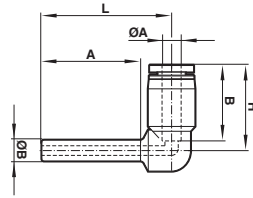
Union elbow

Part Number	ØD	H	L	C	B	D
C020400200	5/32	0.95 [24.2]	0.95 [24.2]	0.13 [3.3]	0.64 [16.3]	0.41 [10.5]
C020400300	3/16	1.00 [25.5]	1.00 [25.5]	0.14 [3.5]	0.66 [16.8]	0.45 [11.5]
C020400400	1/4	1.09 [27.8]	1.09 [27.8]	0.14 [3.5]	0.69 [17.4]	0.51 [13.0]
C020400500	5/16	1.21 [30.65]	1.21 [30.65]	0.17 [4.3]	0.74 [18.7]	0.57 [14.5]
C020400600	3/8	1.36 [34.6]	1.36 [34.6]	0.18 [4.5]	0.80 [20.2]	0.69 [17.5]
C020400700	1/2	1.61 [40.8]	1.61 [40.8]	0.18 [4.5]	0.87 [22.0]	0.83 [21.0]



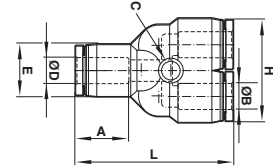
Stem side tee

Part Number	ØA	ØB	A	L	H	B
C20640200	5/32	5/32	0.94 [24.0]	2.29 [58.2]	0.98 [25.0]	0.64 [16.3]
C20640300	3/16	3/16	0.94 [24.0]	2.27 [57.6]	0.99 [25.1]	0.66 [16.8]
C20640400	1/4	1/4	0.98 [25.0]	2.46 [62.5]	1.10 [28.0]	0.69 [17.4]
C20640500	5/16	5/16	1.02 [26.0]	2.65 [67.2]	1.22 [30.9]	0.74 [18.7]
C20640600	3/8	3/8	1.10 [28.0]	2.87 [73.0]	1.37 [34.7]	0.80 [20.2]
C20640700	1/2	1/2	1.18 [30.0]	3.22 [81.8]	1.61 [40.8]	0.87 [22.0]



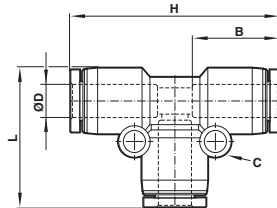
Stem elbow

Part Number	ØA	ØB	H	B	L	A
C20430200	5/32	5/32	0.74 [18.7]	0.64 [16.3]	1.48 [37.5]	0.94 [24.0]
C20430300	3/16	3/16	0.75 [19.1]	0.66 [16.8]	1.48 [37.5]	0.94 [24.0]
C20430400	1/4	1/4	0.81 [20.5]	0.69 [17.4]	1.61 [41.0]	0.98 [25.0]
C20430500	5/16	5/16	0.89 [22.7]	0.74 [18.7]	1.69 [42.9]	1.02 [26.0]
C20430600	3/8	3/8	0.94 [23.8]	0.80 [20.2]	1.80 [45.8]	1.10 [28.0]
C20430700	1/2	1/2	1.11 [28.3]	0.87 [22.0]	2.03 [51.5]	1.18 [30.0]



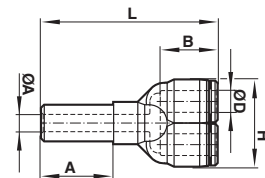
Union Y

Part Number	ØD	H	L	B	E	C
C20820200	5/32	0.83 [21.0]	1.46 [37.1]	0.64 [16.3]	0.41 [10.5]	0.13 [3.3]
C20820300	3/16	0.91 [23.0]	1.46 [37.1]	0.66 [16.8]	0.45 [11.5]	0.13 [3.3]
C20820400	1/4	1.02 [26.0]	1.57 [39.8]	0.69 [17.4]	0.51 [13.0]	0.13 [3.3]
C20820500	5/16	1.14 [29.0]	1.71 [43.4]	0.74 [18.7]	0.57 [14.5]	0.17 [4.3]
C20820600	3/8	1.38 [35.0]	1.88 [47.7]	0.77 [19.6]	0.69 [17.5]	0.17 [4.3]
C20820700	1/2	1.65 [42.0]	2.15 [54.5]	0.87 [22.0]	0.83 [21.0]	0.18 [4.5]



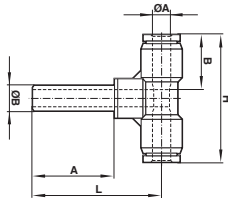
Union tee

Part Number	ØD	H	L	C	B
C20600200	5/32	1.44 [36.6]	0.95 [24.2]	0.13 [3.3]	0.64 [16.3]
C20600300	3/16	1.56 [39.5]	1.00 [25.5]	0.14 [3.5]	0.66 [16.8]
C20600400	1/4	1.68 [42.6]	1.09 [27.8]	0.14 [3.5]	0.69 [17.4]
C20600500	5/16	1.77 [44.9]	1.21 [30.65]	0.17 [4.3]	0.74 [18.7]
C20600600	3/8	2.03 [51.6]	1.36 [34.6]	0.18 [4.5]	0.80 [20.2]
C20600700	1/2	2.38 [60.5]	1.61 [40.8]	0.18 [4.5]	0.87 [22.0]



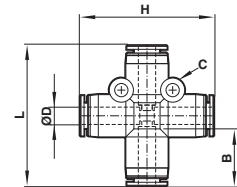
Stem Y

Part Number	ØA	ØD	A	L	H	B
C20840202	5/32	5/32	0.94 [24.0]	2.13 [54.2]	0.83 [21.0]	0.64 [16.3]
C20840300	3/16	3/16	0.94 [24.0]	2.28 [57.9]	0.91 [23.0]	0.66 [16.8]
C20840404	1/4	1/4	0.98 [25.0]	2.40 [60.9]	1.14 [29.0]	0.69 [17.4]
C20840505	5/16	5/16	1.02 [26.0]	2.38 [60.5]	1.14 [29.0]	0.74 [18.7]
C20840600	3/8	3/8	1.10 [28.0]	2.70 [68.5]	1.38 [35.0]	0.80 [20.2]
C20840700	1/2	1/2	1.18 [30.0]	3.17 [80.6]	1.61 [41.0]	0.87 [22.0]



Stem tee

Part Number	ØA	ØB	A	L	H	B
C20630200	5/32	5/32	0.94 [24.0]	1.48 [37.5]	1.46 [37.0]	0.64 [16.3]
C20630300	3/16	3/16	0.94 [24.0]	1.48 [37.5]	1.50 [38.2]	0.66 [16.8]
C20630400	1/4	1/4	0.98 [25.0]	1.61 [41.0]	1.61 [40.8]	0.69 [17.4]
C20630500	5/16	5/16	1.02 [26.0]	1.69 [43.0]	1.72 [43.7]	0.74 [18.7]
C20630600	3/8	3/8	1.13 [28.8]	1.80 [45.8]	1.88 [47.7]	0.80 [20.2]
C20630700	1/2	1/2	1.18 [30.0]	2.03 [51.5]	2.22 [56.5]	0.87 [22.0]



Union cross

Part Number	ØD	C	H	L	B
C20900200	5/32	0.13 [3.3]	1.44 [36.6]	1.49 [37.9]	0.64 [16.3]
C20900300	3/16	0.13 [3.3]	1.54 [39.2]	1.54 [39.2]	0.66 [16.8]
C20900400	1/4	0.13 [3.3]	1.68 [42.6]	1.68 [42.6]	0.69 [17.4]
C20900500	5/16	0.17 [4.3]	1.77 [44.9]	1.84 [46.8]	0.74 [18.7]
C20900600	3/8	0.17 [4.3]	1.90 [48.2]	1.99 [50.5]	0.79 [20.0]
C20900700	1/2	0.17 [4.3]	2.38 [60.5]	2.38 [60.5]	0.87 [22.0]

Service – Quality – Delivery

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FIT-13

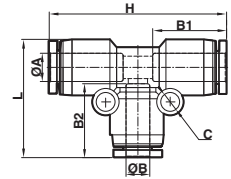
FITTINGS, TUBING & ACCESSORIES

15

PNEUFIT® C PUSH-IN FITTINGS

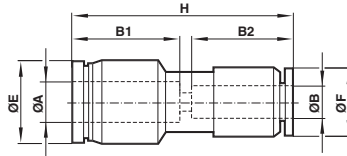
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



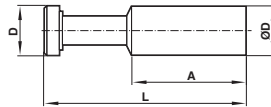
Union Tee (unequal)

Part Number	ØA	ØB	B1	B2	C	L	H
C206A0402	1/4	5/32	0.69 [17.4]	0.64 [16.3]	0.14 [3.5]	1.05 [26.6]	1.60 [40.6]
C206A0504	5/16	1/4	0.74 [18.7]	0.69 [17.4]	0.14 [3.5]	1.12 [28.4]	1.70 [43.2]
C206A0604	3/8	1/4	0.80 [20.2]	0.69 [17.4]	0.18 [4.5]	1.27 [32.2]	1.91 [48.6]
C206A0605	3/8	5/16	0.80 [20.2]	0.74 [18.7]	0.18 [4.5]	1.32 [33.5]	1.99 [50.6]
C206A0704	1/2	1/4	0.87 [22.0]	0.69 [17.4]	0.18 [4.5]	1.68 [42.7]	2.38 [60.5]
C206A0706	1/2	3/8	0.87 [22.0]	0.80 [20.2]	0.18 [4.5]	1.45 [36.8]	2.30 [58.5]



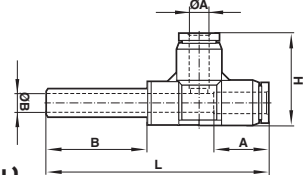
Straight union (unequal)

Part Number	ØA	ØB	H	B1	B2	ØE	ØF
C20200302	3/16	5/32	1.38 [35.0]	0.66 [16.8]	0.64 [16.3]	0.45 [11.5]	0.41 [10.5]
C20200402	1/4	5/32	1.40 [35.6]	0.69 [17.4]	0.64 [16.3]	0.51 [13.0]	0.41 [10.5]
C20200403	1/4	3/16	1.43 [36.2]	0.69 [17.4]	0.66 [16.8]	0.51 [13.0]	0.45 [11.5]
C20200504	5/16	1/4	1.50 [38.1]	0.74 [18.7]	0.69 [17.4]	0.57 [14.5]	0.51 [13.0]
C20200604	3/8	1/4	1.56 [39.7]	0.80 [20.2]	0.69 [17.4]	0.69 [17.5]	0.51 [13.0]
C20200605	3/8	5/16	1.61 [41.0]	0.80 [20.2]	0.74 [18.7]	0.69 [17.5]	0.57 [14.5]
C20200706	1/2	3/8	1.78 [45.3]	0.87 [22.0]	0.80 [20.2]	0.83 [21.0]	0.69 [17.5]



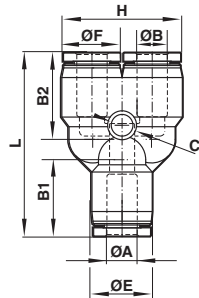
Stem Reducer (stem/tube)

Part Number	ØD2	ØD1	A	L	B
C20230402	1/4	5/32	0.93 [23.5]	1.59 [40.4]	0.64 [16.3]
C20230504	5/16	1/4	1.17 [29.7]	1.89 [48.0]	0.69 [17.4]
C20230604	3/8	1/4	1.23 [31.3]	1.89 [48.0]	0.69 [17.4]
C20230605	3/8	5/16	0.98 [25.0]	1.76 [44.7]	0.74 [18.7]
C20230704	1/2	1/4	1.22 [30.9]	1.90 [48.3]	0.69 [17.4]
C20230706	1/2	3/8	1.25 [31.8]	2.04 [51.8]	0.80 [20.2]



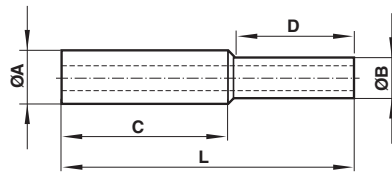
Stem Side Tee (unequal)

Part Number	ØA	ØB	A	L	H	B
C20640402	1/4	5/32	0.98 [25.0]	2.33 [59.2]	0.98 [25.0]	0.64 [16.3]
C20640504	5/16	1/4	1.02 [26.0]	2.50 [63.5]	1.10 [28.0]	0.69 [17.4]
C20640604	3/8	1/4	1.10 [28.0]	2.59 [65.8]	1.10 [28.0]	0.69 [17.4]
C20640605	3/8	5/16	1.10 [28.0]	2.74 [69.5]	1.22 [30.9]	0.74 [18.7]



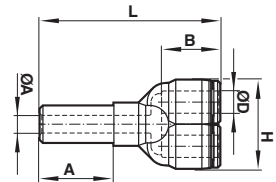
Union Y (unequal)

Part Number	ØA	ØB	L	H	B1	B2	ØE	ØF	C
C20820302	3/16	5/32	1.46 [37.0]	0.83 [21.0]	0.66 [16.8]	0.64 [16.3]	0.45 [11.5]	0.41 [10.5]	0.13 [3.3]
C20820402	1/4	5/32	1.50 [38.1]	0.83 [21.0]	0.69 [17.4]	0.64 [16.3]	0.51 [13.0]	0.41 [10.5]	0.13 [3.3]
C20820403	1/4	3/16	1.52 [38.7]	0.91 [23.0]	0.69 [17.4]	0.66 [16.8]	0.51 [13.0]	0.45 [11.5]	0.13 [3.3]
C20820504	5/16	1/4	1.66 [42.1]	1.02 [26.0]	0.74 [18.7]	0.69 [17.4]	0.57 [14.6]	0.51 [13.0]	0.13 [3.3]
C20820604	3/8	1/4	1.70 [43.2]	1.02 [26.0]	0.77 [19.6]	0.69 [17.4]	0.69 [17.5]	0.51 [13.0]	0.13 [3.3]
C20820605	3/8	5/16	1.70 [43.3]	1.14 [29.0]	0.77 [19.6]	0.74 [18.7]	0.69 [17.5]	0.57 [14.5]	0.17 [4.3]
C20820706	1/2	3/8	2.00 [50.8]	1.38 [35.0]	0.87 [22.0]	0.80 [20.2]	0.83 [21.0]	0.69 [17.5]	0.14 [3.5]



Stem Union (unequal)

Part Number	ØA	ØB	C	D	L
C20220302	3/16	5/32	0.79 [20.0]	0.79 [20.0]	1.57 [40.0]
C20220402	1/4	5/32	0.83 [21.0]	0.79 [20.0]	1.61 [41.0]
C20220403	1/4	3/16	0.83 [21.0]	0.79 [20.0]	1.61 [41.0]
C20220504	5/16	1/4	0.87 [22.0]	0.83 [21.0]	1.69 [43.0]
C20220604	3/8	1/4	0.91 [23.0]	0.83 [21.0]	1.73 [44.0]
C20220605	3/8	5/16	0.91 [23.0]	0.87 [22.0]	1.77 [45.0]
C20220706	1/2	3/8	0.98 [25.0]	0.91 [23.0]	1.89 [48.0]



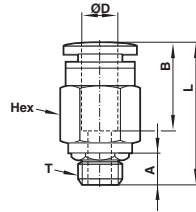
Stem Y (unequal)

Part Number	ØA	ØD	A	L	H	B
C20840402	1/4	5/32	0.98 [25.0]	2.17 [55.2]	0.83 [21.0]	0.64 [16.3]
C20840504	5/16	1/4	1.02 [26.0]	2.44 [61.9]	1.14 [29.0]	0.69 [17.4]
C20840604	3/8	1/4	1.10 [28.0]	2.53 [64.2]	1.38 [35.0]	0.69 [17.4]
C20840605	3/8	5/16	1.10 [28.0]	2.47 [62.8]	1.38 [35.0]	0.74 [18.7]

PNEUFIT® M MINIATURE FITTINGS

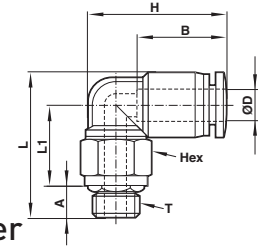
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



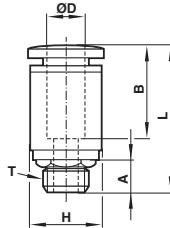
Straight adapter (external + internal hex)

Part Number	ØD	T NPT or UNF Thread	A	L	B	Hex
M24250110	1/8	10/32 UNF	0.18 [4.6]	0.70 [17.7]	0.44 [11.1]	0.31 [8]
M24250116	1/8	1/16	0.31 [8.0]	0.65 [16.5]	0.44 [11.1]	0.31 [8]
M24250118	1/8	1/8	0.33 [8.5]	0.69 [17.5]	0.44 [11.1]	0.44 [11.1]
M24250210	5/32	10/32 UNF	0.18 [4.6]	0.72 [18.2]	0.46 [11.6]	0.31 [8]
M24250216	5/32	1/16	0.31 [8.0]	0.71 [18.0]	0.46 [11.6]	0.31 [8]
M24250218	5/32	1/8	0.33 [8.5]	0.73 [18.5]	0.46 [11.6]	0.44 [11.1]
M24250410	1/4	10/32 UNF	0.16 [4.0]	0.76 [19.3]	0.51 [13.0]	0.44 [11.1]
M24250416	1/4	1/16	0.31 [8.0]	0.87 [22.0]	0.51 [13.0]	0.44 [11.1]
M24250418	1/4	1/8	0.33 [8.5]	0.77 [19.5]	0.51 [13.0]	0.44 [11.1]



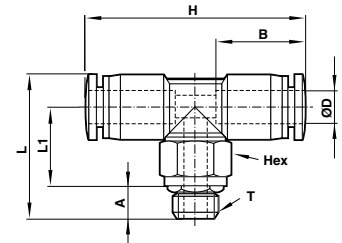
90° Swivel Elbow Adapter

Part Number	ØD	T NPT or UNF Thread	L1	L	H	B	Hex
M24470110	1/8	10/32 UNF	0.14 [3.6]	0.80 [20.4]	0.68 [17.2]	0.44 [11.1]	0.31 [8]
M24470116	1/8	1/16	0.31 [8.0]	0.48 [12.2]	0.86 [21.9]	0.44 [11.1]	0.31 [8]
M24470118	1/8	1/8	0.33 [8.5]	0.48 [12.2]	0.91 [23.2]	0.44 [11.1]	0.43 [11]
M24470128	1/8	1/4	0.41 [10.5]	0.43 [10.8]	0.99 [25.1]	0.44 [11.1]	0.55 [14]
M24470210	5/32	10/32 UNF	0.14 [3.6]	0.51 [13.0]	0.82 [20.9]	0.72 [18.2]	0.46 [11.6]
M24470216	5/32	1/16	0.31 [8.0]	0.48 [12.2]	0.88 [22.4]	0.72 [18.2]	0.46 [11.6]
M24470218	5/32	1/8	0.33 [8.5]	0.48 [12.2]	0.93 [23.7]	0.72 [18.2]	0.46 [11.6]
M24470410	1/4	10/32 UNF	0.14 [3.6]	0.57 [14.5]	0.93 [23.7]	0.79 [20.1]	0.53 [13.5]
M24470416	1/4	1/16	0.31 [8.0]	0.46 [11.6]	0.99 [25.2]	0.79 [20.1]	0.53 [13.5]
M24470418	1/4	1/8	0.33 [8.5]	0.49 [12.4]	1.04 [26.5]	0.79 [20.1]	0.53 [13.5]



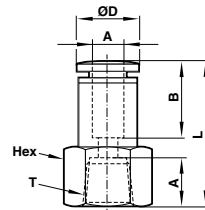
Straight adapter (internal hex only)

Part Number	ØD	T NPT or UNF Thread	A	L	B	ØH	Hex
M242A0110	1/8	10/32 UNF	0.18 [4.6]	0.70 [17.7]	0.44 [11.1]	0.28 [7.0]	0.08 [2.0]
M242A0116	1/8	1/16	0.31 [8.0]	0.71 [18.0]	0.44 [11.1]	0.31 [7.9]	0.09 [2.38]
M242A0118	1/8	1/8	0.33 [8.5]	0.44 [11.1]	0.44 [11.1]	0.43 [11]	0.09 [2.38]
M242A0210	5/32	10/32	0.18 [4.6]	0.72 [18.2]	0.46 [11.6]	0.31 [8]	0.10 [2.5]
M242A0216	5/32	1/16	0.31 [8.0]	0.75 [19.0]	0.46 [11.6]	0.31 [7.9]	0.09 [2.38]
M242A0218	5/32	1/8	0.33 [8.5]	0.64 [16.3]	0.46 [11.6]	0.43 [11]	0.09 [2.38]
M242A0410	1/4	10/32 UNF	0.16 [4.0]	0.76 [19.3]	0.51 [13.0]	0.41 [10.5]	0.09 [2.38]
M242A0416	1/4	1/16	0.31 [8.0]	0.87 [22.0]	0.51 [13.0]	0.41 [10.5]	0.16 [4.0]
M242A0418	1/4	1/8	0.33 [8.5]	0.77 [19.5]	0.51 [13.0]	0.41 [10.5]	0.16 [4.0]



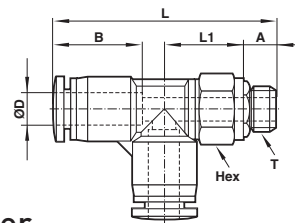
Swivel Tee Adapter

Part Number	ØD	T NPT or UNF Thread	L1	L	H	B	Hex
M24670110	1/8	10/32 UNF	0.14 [3.6]	0.80 [20.4]	1.05 [26.6]	0.44 [11.1]	0.31 [8]
M24670116	1/8	1/16	0.31 [8.0]	0.48 [12.2]	0.86 [21.9]	1.05 [26.6]	0.44 [11.1]
M24670118	1/8	1/8	0.33 [8.5]	0.48 [12.2]	0.91 [23.2]	1.05 [26.6]	0.44 [11.1]
M24670210	5/32	10/32 UNF	0.14 [3.6]	0.51 [13.0]	0.82 [20.9]	1.13 [28.6]	0.46 [11.6]
M24670216	5/32	1/16	0.31 [8.0]	0.48 [12.2]	0.88 [22.4]	1.13 [28.6]	0.46 [11.6]
M24670218	5/32	1/8	0.33 [8.5]	0.48 [12.2]	0.93 [23.7]	1.13 [28.6]	0.46 [11.6]
M24670410	1/4	10/32 UNF	0.14 [3.6]	0.57 [14.5]	0.93 [23.7]	1.27 [32.3]	0.46 [11.6]
M24670416	1/4	1/16	0.31 [8.0]	0.46 [11.6]	0.99 [25.2]	1.27 [32.3]	0.46 [11.6]
M24670418	1/4	1/8	0.33 [8.5]	0.49 [12.4]	1.04 [26.5]	1.27 [32.3]	0.46 [11.6]



Straight adapter (female thread)

Part Number	ØD	T NPT or UNF Thread	L	B	D	Hex
M24260110	1/8	10/32 UNF	0.24 [6.0]	0.74 [18.8]	0.44 [11.1]	0.30 [7.5]
M24260116	1/8	1/16	0.31 [8.0]	0.81 [20.5]	0.44 [11.1]	0.30 [7.5]
M24260118	1/8	1/8	0.33 [8.5]	0.89 [22.5]	0.44 [11.3]	0.30 [7.5]
M24260128	1/8	1/4	0.41 [10.5]	1.00 [25.3]	0.44 [11.3]	0.30 [7.5]
M24260210	5/32	10/32 UNF	0.24 [6.0]	0.78 [19.7]	0.46 [11.6]	0.31 [8.0]
M24260216	5/32	1/16	0.31 [8.0]	0.85 [21.7]	0.46 [11.6]	0.33 [8.5]



Swivel Side Tee Adapter

Part Number	ØD	T NPT or UNF Thread	L1	H	L	B	Hex
M24680110	1/8	10/32 UNF	0.14 [3.6]	0.52 [13.3]	1.18 [30.0]	0.44 [11.1]	0.31 [8]
M24680116	1/8	1/16	0.31 [8.0]	0.48 [12.2]	0.52 [13.3]	1.24 [31.5]	0.44 [11.1]
M24680118	1/8	1/8	0.33 [8.5]	0.48 [12.2]	0.52 [13.3]	1.29 [32.8]	0.44 [11.1]
M24680210	5/32	10/32 UNF	0.12 [3.0]	0.51 [13.0]	0.56 [14.2]	1.20 [30.4]	0.46 [11.6]
M24680216	5/32	1/16	0.31 [8.0]	0.48 [12.2]	0.56 [14.2]	1.26 [31.9]	0.46 [11.6]
M24680218	5/32	1/8	0.33 [8.5]	0.48 [12.2]	0.56 [14.2]	1.31 [33.2]	0.46 [11.6]
M24680410	1/4	10/32 UNF	0.14 [3.6]	0.57 [14.5]	0.69 [17.6]	1.41 [35.7]	0.53 [13.5]
M24680416	1/4	1/16	0.31 [8.0]	0.46 [11.6]	0.69 [17.6]	1.46 [37.2]	0.53 [13.5]
M24680418	1/4	1/8	0.33 [8.5]	0.49 [12.4]	0.69 [17.6]	1.52 [38.5]	0.53 [13.5]

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FIT-15

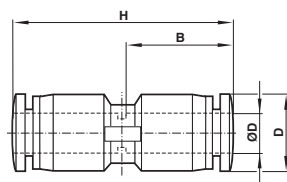
FITTINGS, TUBING & ACCESSORIES

15

PNEUFIT® M MINIATURE FITTINGS

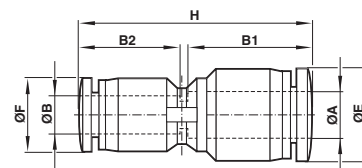
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



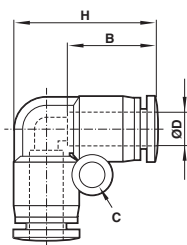
Straight Union

Part Number	ØD	D	B	H
M20200100	1/8	0.30 [7.6]	0.44 [11.1]	0.91 [23.2]
M20200200	5/32	0.33 [8.5]	0.46 [11.6]	0.96 [24.5]
M20200400	1/4	0.44 [11.2]	0.53 [13.5]	1.13 [28.6]



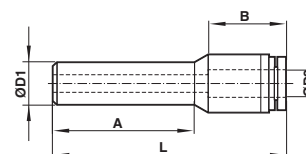
Straight Union (unequal)

Part Number	ØA	ØB	ØF	ØE	B2	B1	H
M20200201	5/32	1/8	0.30 [7.6]	0.33 [8.5]	0.44 [11.1]	0.46 [11.6]	0.94 [23.8]
M20200401	1/4	1/8	0.30 [7.6]	0.44 [11.2]	0.44 [11.1]	0.53 [13.5]	1.04 [26.5]
M20200402	1/4	5/32	0.35 [8.8]	0.44 [11.2]	0.46 [11.8]	0.53 [13.5]	1.11 [28.1]



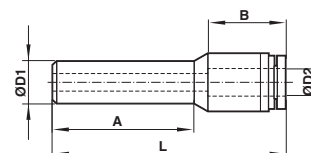
Union Elbow

Part Number	ØD	C	B	H
M20400100	1/8	0.13 [3.2]	0.44 [11.1]	0.67 [17.1]
M20400200	5/32	0.13 [3.2]	0.46 [11.6]	0.73 [18.5]
M20400400	1/4	0.13 [3.3]	0.53 [13.5]	0.91 [23.2]



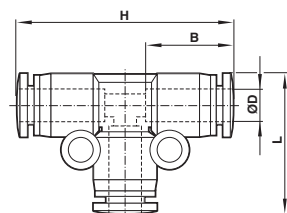
Stem Reducer (stem/tube)

Part Number	ØD2	ØD1	A	L	B
C20230201	5/32	1/8	0.73 [18.5]	1.25 [31.7]	0.44 [11.3]
C20230401	1/4	1/8	0.82 [20.9]	1.25 [31.7]	0.44 [11.3]



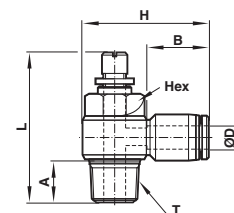
Stem Expander (stem/tube)

Part Number	ØD2	ØD1	A	L	B
C20230104	1/8	1/4	0.65 [16.5]	1.41 [35.8]	0.69 [17.4]
C20230204	5/32	1/4	0.73 [18.5]	1.49 [37.8]	0.69 [17.4]



Union Tee

Part Number	ØD	C	L	B	H
M20600100	1/8	0.13 [3.2]	0.67 [17.1]	0.44 [11.1]	1.05 [26.6]
M20600200	5/32	0.13 [3.2]	0.73 [18.5]	0.46 [11.6]	1.13 [28.6]
M20600400	1/4	0.13 [3.3]	0.91 [23.2]	0.53 [13.5]	1.39 [35.3]



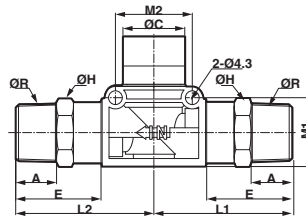
Banjo Flow Control

Part Number	MI	L	MA	T	H	ØD	B	A	HEX
Regulating out									
C2VA00110	1.07 [27.2]	1.19 [30.2]	UNF 10/32	0.85 [21.5]	1/8	0.44 [11.1]	0.14 [3.6]	0.31 [8.0]	
Regulating in									
C2WA00110	1.07 [27.2]	1.19 [30.2]	UNF 10/32	0.85 [21.5]	1/8	0.44 [11.1]	0.14 [3.6]	0.31 [8.0]	

PNEUFIT® C PUSH-IN FITTINGS

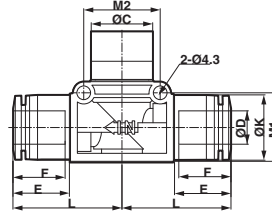
Inch Ø 1/8" to 1/2" O/D tube

Dimensions in Inches (mm)



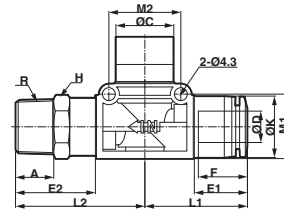
Thread to thread

Part Number	ØR NPT	ØH	ØC	A	E	L1	L2	M1	M2
C24GG1118	1/8	9/16	0.65 [16.5]	0.33 [8.5]	0.91 [23.1]	1.46 [37.1]	1.46 [37.1]	0.72 [18.3]	0.75 [19.0]
C24GG2428	1/4	9/16	0.65 [16.5]	0.41 [10.5]	0.97 [24.6]	1.54 [39.1]	1.54 [39.1]	0.72 [18.3]	0.75 [19.0]
C24GG3638	3/8	11/16	0.76 [19.3]	0.45 [11.5]	0.96 [24.5]	1.61 [41.0]	1.57 [40.0]	0.85 [21.5]	0.94 [24.0]
C24GG4748	1/2	7/8	0.76 [19.3]	0.57 [14.5]	1.15 [29.1]	1.80 [45.6]	1.80 [45.6]	0.85 [21.5]	0.94 [24.0]



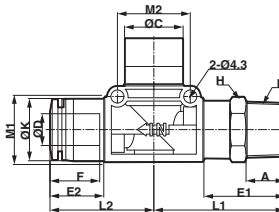
Tube to tube

Part Number	ØD	ØK	ØC	F	E	L	M1	M2
C20GF0400	1/4	0.50 [12.6]	0.65 [16.5]	0.70 [17.7]	0.49 [12.5]	1.04 [26.5]	0.72 [18.3]	0.75 [19.0]
C20GF0500	5/16	0.58 [14.8]	0.65 [16.5]	0.75 [19.1]	0.55 [13.9]	1.10 [27.9]	0.72 [18.3]	0.75 [19.0]
C20GF0600	3/8	0.69 [17.5]	0.76 [19.3]	0.78 [19.7]	0.57 [14.4]	1.22 [30.9]	0.85 [21.5]	0.94 [24.0]
C20GF0700	1/2	0.83 [21.0]	0.76 [19.3]	0.91 [23.2]	0.70 [17.8]	1.35 [34.3]	0.85 [21.5]	0.94 [24.0]



Tube to thread

Part Number	ØD	R NPT	ØK	H	ØC	A	F	E1	E2	L1	L2	M1	M2
C24GH0418	1/4	1/8	0.50 [12.6]	9/16	0.65 [16.5]	0.33 [8.5]	0.70 [17.7]	0.49 [12.5]	0.91 [23.1]	1.04 [26.5]	1.46 [37.1]	0.72 [18.3]	0.75 [19.0]
C24GH0428	1/4	1/4	0.50 [12.6]	9/16	0.65 [16.5]	0.41 [10.5]	0.70 [17.7]	0.49 [12.5]	0.99 [25.1]	1.04 [26.5]	1.54 [39.1]	0.72 [18.3]	0.75 [19.0]
C24GH0438	1/4	3/8	0.50 [12.6]	11/16	0.65 [16.5]	0.45 [11.5]	0.70 [17.7]	0.49 [12.5]	1.03 [26.1]	1.04 [26.5]	1.58 [40.1]	0.72 [18.3]	0.75 [19.0]
C24GH0518	5/16	1/8	0.58 [14.8]	9/16	0.65 [16.5]	0.33 [8.5]	0.75 [19.1]	0.55 [13.9]	0.91 [23.1]	1.10 [27.9]	1.46 [37.1]	0.72 [18.3]	0.75 [19.0]
C24GH0528	5/16	1/4	0.58 [14.8]	9/16	0.65 [16.5]	0.41 [10.5]	0.75 [19.1]	0.55 [13.9]	0.99 [25.1]	1.10 [27.9]	1.54 [39.1]	0.72 [18.3]	0.75 [19.0]
C24GH0538	5/16	3/8	0.58 [14.8]	11/16	0.65 [16.5]	0.45 [11.5]	0.75 [19.1]	0.55 [13.9]	1.03 [26.1]	1.10 [27.9]	1.58 [40.1]	0.72 [18.3]	0.75 [19.0]
C24GH0628	3/8	1/4	0.69 [17.5]	11/16	0.76 [19.3]	0.41 [10.5]	0.78 [19.7]	0.57 [14.4]	0.93 [23.5]	1.22 [30.9]	1.57 [40.0]	0.85 [21.5]	0.94 [24.0]
C24GH0638	3/8	3/8	0.69 [17.5]	11/16	0.76 [19.3]	0.45 [11.5]	0.78 [19.7]	0.57 [14.4]	0.96 [24.5]	1.22 [30.9]	1.61 [41.0]	0.85 [21.5]	0.94 [24.0]
C24GH0648	3/8	1/2	0.69 [17.5]	7/8	0.76 [19.3]	0.57 [14.5]	0.78 [19.7]	0.57 [14.4]	1.08 [27.5]	1.22 [30.9]	1.73 [44.0]	0.85 [21.5]	0.94 [24.0]
C24GH0738	1/2	3/8	0.83 [21.0]	3/4	0.76 [19.3]	0.45 [11.5]	0.91 [23.2]	0.70 [17.8]	1.03 [26.1]	1.35 [34.3]	1.68 [42.6]	0.85 [21.5]	0.94 [24.0]
C24GH0748	1/2	1/2	0.83 [21.0]	7/8	0.76 [19.3]	0.57 [14.5]	0.91 [23.2]	0.70 [17.8]	1.15 [29.1]	1.35 [34.3]	1.80 [45.6]	0.85 [21.5]	0.94 [24.0]



Thread to tube

Part Number	ØD	R NPT	ØK	H	ØC	A	F	E1	E2	L1	L2	M1	M2
C24GJ0418	1/4	1/8	0.50 [12.6]	9/16	0.65 [16.5]	0.33 [8.5]	0.70 [17.7]	0.91 [23.1]	0.49 [12.5]	1.46 [37.1]	1.04 [26.5]	0.72 [18.3]	0.75 [19.0]
C24GJ0518	5/16	1/8	0.58 [14.8]	9/16	0.65 [16.5]	0.33 [8.5]	0.75 [19.1]	0.91 [23.1]	0.55 [13.9]	1.46 [37.1]	1.10 [27.9]	0.72 [18.3]	0.75 [19.0]
C24GJ0428	1/4	1/4	0.50 [12.6]	9/16	0.65 [16.5]	0.41 [10.5]	0.70 [17.7]	0.99 [25.1]	0.49 [12.5]	1.54 [39.1]	1.04 [26.5]	0.72 [18.3]	0.75 [19.0]
C24GJ0528	5/16	1/4	0.58 [14.8]	9/16	0.65 [16.5]	0.41 [10.5]	0.75 [19.1]	0.99 [25.1]	0.55 [13.9]	1.54 [39.1]	1.10 [27.9]	0.72 [18.3]	0.75 [19.0]
C24GJ0628	3/8	1/4	0.69 [17.5]	11/16	0.76 [19.3]	0.41 [10.5]	0.78 [19.7]	0.93 [23.5]	0.57 [14.4]	1.57 [40.0]	1.22 [30.9]	0.85 [21.5]	0.94 [24.0]
C24GJ0438	1/4	3/8	0.50 [12.6]	11/16	0.65 [16.5]	0.45 [11.5]	0.70 [17.7]	1.03 [26.1]	0.49 [12.5]	1.58 [40.1]	1.04 [26.5]	0.72 [18.3]	0.75 [19.0]
C24GJ0538	5/16	3/8	0.58 [14.8]	11/16	0.65 [16.5]	0.45 [11.5]	0.75 [19.1]	1.03 [26.1]	0.55 [13.9]	1.58 [40.1]	1.10 [27.9]	0.72 [18.3]	0.75 [19.0]
C24GJ0638	3/8	3/8	0.69 [17.5]	11/16	0.76 [19.3]	0.45 [11.5]	0.78 [19.7]	0.96 [24.5]	0.57 [14.4]	1.61 [41.0]	1.22 [30.9]	0.85 [21.5]	0.94 [24.0]
C24GJ0648	3/8	1/2	0.69 [17.5]	7/8	0.76 [19.3]	0.57 [14.5]	0.78 [19.7]	1.08 [27.5]	0.57 [14.4]	1.73 [44.0]	1.22 [30.9]	0.85 [21.5]	0.94 [24.0]
C24GJ0748	1/2	1/2	0.83 [21.0]	7/8	0.76 [19.3]	0.57 [14.5]	0.86 [21.9]	1.15 [29.1]	0.70 [17.8]	1.80 [45.6]	1.35 [34.3]	0.85 [21.5]	0.94 [24.0]

PNEUFIT® D FITTINGS

Inch Ø 5/32" to 1/2" O/D tube

Ready to use.

Manufactured from FDA approved acetal material, and are certified by NSF (51 & 61), WRAS and SK-Zert for use with water and food.

Comprehensive range of over 600 plastic push-in fittings in both inch and metric sizes.

Releasable stainless-steel grab-ring offers fast, secure assembly and disassembly of nylon, PU and PE tubing.

Suitable for use in medical and analytical equipment including fluid and precision gas control.

Appropriate for inert gas and industrial air applications.



TECHNICAL DATA

Medium:

Air and liquids

Operating pressure:

Vacuum up to 29.5" Hg (750 mm Hg)

5/32" to 5/16", -4°F to 68°F (-20° to 20°C), 230 psig (16 bar)

3/8" to 1/2", -4°F to 68°F (-20° to 20°C), 170 psig (12 bar)

5/32" to 5/16", 68°F to 149°F (20° to 65°C), 150 psig (10 bar)

3/8" to 1/2", 68°F to 149°F (20° to 65°C), 100 psig (7 bar)

Temperature:

-4°F to 149°F (-20° to 65°C)

Materials:

Body: Acetal

Seals: Food and water grade NBR

Collet: PBT with Stainless Steel teeth

Tube sizes:

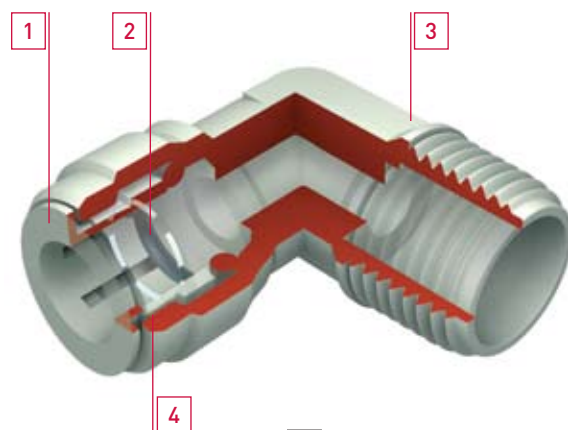
5/32", 3/16", 1/4", 5/16", 3/8" and 1/2"

Thread sizes:

1/8", 1/4", 3/8", 1/2", 5/8" NPTF, ISO R and ISO G

Tube types:

Nylon, Polyurethane, Polyethylene



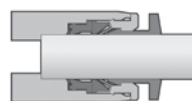
- 1 Collet- unique oval shape allowing for easier connecting and disconnecting.
- 2 O-ring - NBR provides leak proof seal.
- 3 Body and cap - made of highly durable acetal copolymer (POM).
- 4 Stainless steel teeth - holds tubing in place

Method of assembly



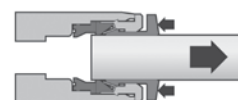
1. Ensure that the end tube is cut square and is free from burrs.

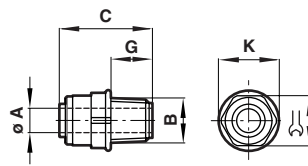
2. Push the tube through the release ring button and grab ring into the fitting.



3. Push the tube firmly through the 'O' ring until it bottoms on the tube stop, then pull back.

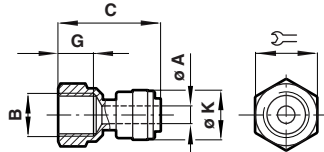
4. To disconnect, push the tube into the fitting, hold down the release button and withdraw the tube.





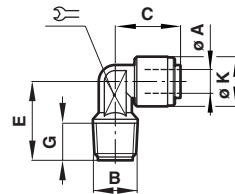
Straight Adapter

Part Number	ø A	B NPTF	C	G	ø K	
D24250418	1/4	1/8	1.02 [26,0]	0.41 [10,5]	0.59 [15,0]	11/16
D24250428	1/4	1/4	1.10 [28,0]	0.49 [12,5]	0.59 [15,0]	11/16
D24250438	1/4	3/8	1.00 [25,5]	0.47 [12,0]	0.59 [15,0]	13/16
D24250448	1/4	1/2	1.30 [33,0]	0.65 [16,5]	0.79 [20,0]	1
D24250518	5/16	1/8	1.04 [26,5]	0.37 [9,5]	0.69 [17,5]	13/16
D24250528	5/16	1/4	1.04 [26,5]	0.49 [12,5]	0.69 [17,5]	13/16
D24250538	5/16	3/8	1.12 [28,5]	0.47 [12,0]	0.69 [17,5]	13/16
D24250618	3/8	1/8	1.22 [31,0]	0.37 [9,5]	0.79 [20,0]	13/16
D24250628	3/8	1/4	1.32 [33,5]	0.49 [12,5]	0.79 [20,0]	13/16
D24250638	3/8	3/8	1.14 [29,0]	0.47 [12,0]	0.79 [20,0]	13/16
D24250648	3/8	1/2	1.32 [33,5]	0.65 [16,5]	0.79 [20,0]	1
D24250738	1/2	3/8	1.36 [34,5]	0.49 [12,5]	0.91 [23,0]	1
D24250748	1/2	1/2	1.36 [34,5]	0.65 [16,5]	0.91 [23,0]	1



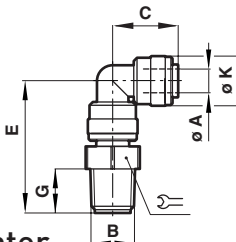
Straight Adapter (female thread, flat type)

Part Number	ø A	B NPTF	C	G	ø K	
D242C0418	1/4	1/8	1.22 [31,0]	0.53 [13,5]	0.59 [15,0]	3/4
D242C0428	1/4	1/4	1.22 [31,0]	0.41 [10,5]	0.59 [15,0]	3/4
D242C0618	3/8	1/2	1.40 [35,5]	0.41 [10,5]	0.79 [20,0]	3/4
D242C0628	3/8	1/4	1.40 [35,5]	0.53 [13,5]	0.79 [20,0]	3/4



Elbow Adapter

Part Number	ø A	B NPTF	C*	E	G	ø K	
D24450318	3/16	1/8	0.77 [19,5]	0.79 [20,0]	0.39 [10,0]	0.59 [15,0]	3/8
D24450418	1/4	1/8	0.77 [19,5]	0.79 [20,0]	0.39 [10,0]	0.59 [15,0]	3/8
D24450428	1/4	1/4	0.96 [24,5]	0.94 [24,0]	0.43 [11,0]	0.59 [15,0]	3/8
D24450438	1/4	3/8	0.77 [19,5]	0.87 [22,0]	0.47 [12,0]	0.59 [15,0]	3/8
D24450628	3/8	1/4	0.98 [25,0]	0.94 [24,0]	0.43 [11,0]	0.79 [20,0]	9/16
D24450638	3/8	3/8	0.98 [25,0]	0.94 [24,0]	0.47 [12,0]	0.79 [20,0]	9/16
D24450738	1/2	3/8	1.22 [31,0]	1.18 [30,0]	0.47 [12,0]	0.91 [23,0]	11/16
D24450748	1/2	1/2	1.22 [31,0]	1.24 [31,5]	0.63 [16,0]	0.91 [23,0]	11/16



90° Swivel Elbow Adapter

Part Number	ø A	B NPTF	C*	E	G	ø K	
D24470418	1/4	1/8	0.79 [20,0]	1.73 [44,0]	0.39 [10,0]	0.59 [15,0]	9/16
D24470428	1/4	1/4	0.79 [20,0]	1.87 [47,5]	0.53 [13,5]	0.59 [15,0]	11/16
D24470628	3/8	1/4	1.00 [25,5]	2.17 [55,0]	0.53 [13,5]	0.77 [19,5]	11/16
D24470638	3/8	3/8	1.00 [25,5]	2.20 [56,0]	0.55 [14,0]	0.77 [19,5]	13/16
D24470738	1/2	3/8	1.22 [31,0]	2.48 [63,0]	0.55 [14,0]	0.89 [22,5]	13/16
D24470748	1/2	1/2	1.22 [31,0]	2.66 [67,5]	0.75 [19,0]	0.89 [22,5]	1

Bulkhead Union

Part Number	ø A	ø A1 B	C*	D	ø K	P	X	1		
D20290400	1/4	1/4	M16.0x1.0	1.38 [35,0]	1.26 [32,0]	0.91 [23,0]	0.22 [5,5]	0.57 [14,5]	0.79 [20,0]	0.73 [18,5]
D20290500	5/16	5/16	M20.0x1.5	1.57 [40,5]	1.46 [37,0]	1.06 [27,0]	0.26 [6,5]	0.77 [19,5]	0.96 [24,5]	0.85 [21,5]
D20290600	3/8	3/8	M20.0x1.5	1.59 [40,5]	1.48 [37,5]	1.06 [27,5]	0.26 [6,5]	0.77 [19,5]	0.96 [24,5]	0.85 [21,5]
D20290700	1/2	1/2	M27.0x1.5	1.90 [49,5]	1.77 [45,0]	1.48 [37,5]	0.31 [8,0]	0.96 [24,5]	1.32 [33,5]	1.06 [27,5]

PNEUFIT® D FITTINGS

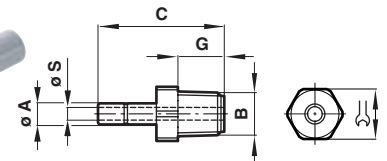
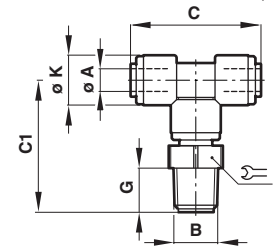
Inch Ø 5/32" to 1/2" O/D tube

Dimensions in Inches (mm)



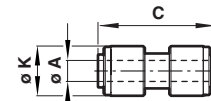
Swivel Tee Adapter

Part Number	ø A	B NPTF	C*	C1	G	ø K	
D24670418	1/4	1/8	1.56 [39,5]	1.48 [37,5]	0.39 [10,0]	0.59 [15,0]	9/16
D24670428	1/4	1/4	1.56 [39,5]	1.63 [41,5]	0.53 [13,5]	0.59 [15,0]	11/16
D24670628	3/8	1/4	1.97 [50,0]	1.89 [48,0]	0.53 [13,5]	0.77 [19,5]	11/16
D24670638	3/8	3/8	1.97 [50,0]	1.91 [48,5]	0.55 [14,0]	0.77 [19,5]	13/16
D24670738	1/2	3/8	2.36 [60,0]	2.11 [53,5]	0.55 [14,0]	0.91 [23,0]	13/16
D24670748	1/2	1/2	2.36 [60,0]	2.28 [58,0]	0.75 [19,0]	0.91 [23,0]	1



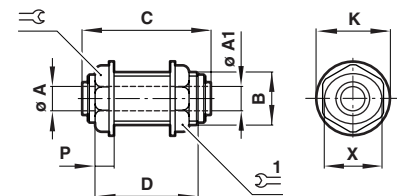
Straight Stem Adapter

Part Number	ø A	B	C	G	ø S	
D24150418	1/4	1/8	1.34 [34,0]	0.39 [10,0]	0.18 [4,5]	9/16
D24150428	1/4	1/4	1.50 [38,0]	0.55 [14,0]	0.18 [4,5]	11/16
D24150518	5/16	1/8	1.36 [34,5]	0.39 [10,0]	0.18 [4,5]	9/16
D24150628	3/8	1/4	1.68 [42,5]	0.55 [14,0]	0.26 [6,5]	11/16
D24150638	3/8	3/8	1.69 [43,0]	0.55 [14,0]	0.26 [6,5]	13/16
D24150738	1/2	3/8	1.89 [48,0]	0.55 [14,0]	0.37 [9,5]	1
D24150748	1/2	1/2	2.01 [51,0]	0.75 [19,0]	0.37 [9,5]	1



Straight Union

Part Number	ø A	C	ø K
D20200200	5/32	1.36 [34,5]	0.51 [13,0]
D20200300	3/16	1.36 [34,5]	0.51 [13,0]
D20200400	1/4	1.40 [35,5]	0.59 [15,0]
D20200500	5/16	1.61 [41,0]	0.69 [17,5]
D00200600	3/8	1.63 [41,5]	0.79 [20,0]
D00200700	1/2	1.97 [50,0]	0.91 [23,0]



Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com

NORGREN
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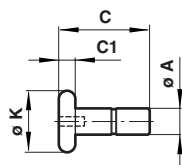
FIT-19

PNEUFIT® D FITTINGS

Inch Ø 5/32" to 1/2" O/D tube

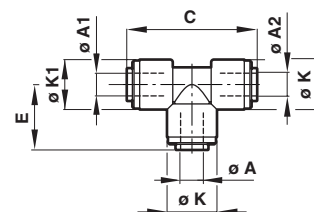
Dimensions in Inches (mm)

Plug



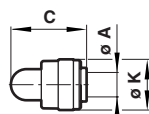
Part Number	Ø A	C	C1	Ø K
D20040200	5/32	0.77 [19,5]	0.12 [3,0]	0.49 [12,5]
D20040300	3/16	0.77 [19,5]	0.12 [3,0]	0.49 [12,5]
D20040400	1/4	0.87 [22,0]	0.16 [4,0]	0.59 [15,0]
D20040500	5/16	0.91 [23,0]	0.16 [4,0]	0.67 [17,0]
D20040600	3/8	1.04 [26,5]	0.16 [4,0]	0.75 [19,0]
D200A0700	1/2	1.18 [30,0]	0.16 [4,0]	0.83 [21,0]

Union Tee



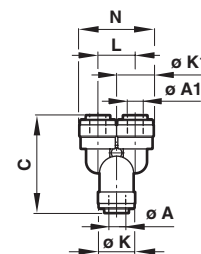
Part Number	Ø A	Ø A1	Ø A2	C*	E*	Ø K	Ø K1
D20600200	5/32	5/32	5/32	1.38 [35,0]	0.69 [17,5]	0.51 [13,0]	0.51 [13,0]
D20600300	3/16	3/16	3/16	1.38 [35,0]	0.69 [17,5]	0.51 [13,0]	0.51 [13,0]
D20600400	1/4	1/4	1/4	1.57 [40,0]	0.79 [20,0]	0.59 [15,0]	0.59 [15,0]
D20600500	5/16	5/16	5/16	1.65 [42,0]	0.83 [21,0]	0.67 [17,0]	0.67 [17,0]
D20600600	3/8	3/8	3/8	1.97 [50,0]	0.98 [25,0]	0.79 [20,0]	0.79 [20,0]
D20600700	1/2	1/2	1/2	2.36 [60,0]	1.18 [30,0]	0.91 [23,0]	0.91 [23,0]

End stop



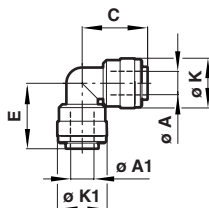
Part Number	Ø A	C	Ø K
D200A0400	1/4	0.89 [22,5]	0.59 [15,0]
D200A0500	5/16	0.91 [23,0]	0.69 [17,5]
D200A0600	3/8	1.04 [26,5]	0.79 [20,0]
D200A0700	1/2	1.28 [32,5]	0.91 [23,0]

Union Y



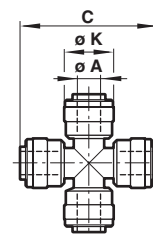
Part Number	Ø A	Ø A1	C*	Ø K	Ø K1	L	N
D20820400	1/4	1/4	1.54 [39,0]	0.59 [15,0]	0.59 [15,0]	0.59 [15,0]	1.18 [30,0]
D20820600	3/8	3/8	1.91 [48,5]	0.79 [20,0]	0.79 [20,0]	0.79 [20,0]	1.56 [39,5]
D20820700	1/2	1/2	2.22 [56,5]	0.91 [23,0]	0.91 [23,0]	0.91 [23,0]	1.81 [46,0]

Union Elbow



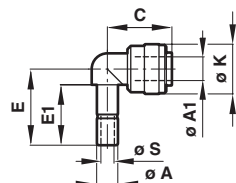
Part Number	Ø A	Ø A1	C	E	Ø K	Ø K1
D20400200	5/32	5/32	0.69 [17,5]	0.69 [17,5]	0.51 [13,0]	0.51 [13,0]
D20400300	3/16	3/16	0.69 [17,5]	0.69 [17,5]	0.51 [13,0]	0.51 [13,0]
D20400400	1/4	1/4	0.79 [20,0]	0.79 [20,0]	0.59 [15,0]	0.59 [15,0]
D20400500	5/16	5/16	0.83 [21,0]	0.83 [21,0]	0.71 [18,0]	0.71 [18,0]
D20400600	3/8	3/8	1.00 [25,5]	0.98 [25,0]	0.75 [19,0]	0.75 [19,0]
D20400700	1/2	1/2	1.00 [25,5]	0.98 [25,0]	0.75 [19,0]	0.75 [19,0]

Union Cross



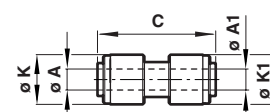
Part Number	Ø A	C*	C1*	Ø K
D20900400	1/4	1.65 [42,0]	1.65 [42,0]	0.59 [15,0]
D20900600	3/8	1.99 [50,5]	1.99 [50,5]	0.79 [20,0]
D20900700	1/2	2.30 [58,5]	2.30 [58,5]	0.91 [23,0]

Stem Elbow

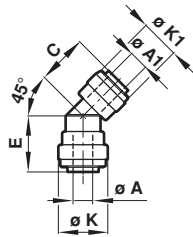


Part Number	Ø A	Ø A1	C*	E	E1	Ø K	Ø S
D20430200	5/32	5/32	0.69 [17,5]	0.87 [22,0]	0.61 [15,5]	0.51 [13,0]	0.10 [2,5]
D20430300	3/16	3/16	0.69 [17,5]	0.83 [21,0]	0.63 [16,0]	0.51 [13,0]	0.12 [3,0]
D20430400	1/4	1/4	0.77 [19,5]	0.91 [23,0]	0.73 [18,5]	0.59 [15,0]	0.18 [4,5]
D20430500	5/16	5/16	0.85 [21,5]	1.02 [26,0]	0.75 [19,0]	0.69 [17,5]	0.22 [5,5]
D20430600	3/8	3/8	0.96 [24,5]	1.22 [31,0]	0.89 [22,5]	0.79 [20,0]	0.26 [6,5]
D20430700	1/2	1/2	1.24 [31,5]	1.42 [36,0]	1.00 [25,5]	0.91 [23,0]	0.37 [9,5]

Straight Union (Unequal)

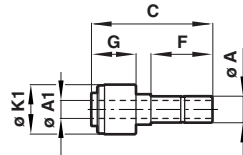


Part Number	Ø A	Ø A1	C	Ø K	Ø K1
D20200402	1/4	5/32	1.36 [34,5]	0.59 [15,0]	0.59 [15,0]
D20200403	1/4	3/16	1.40 [35,5]	0.59 [15,0]	0.59 [15,0]
D20200502	5/16	1/8	1.65 [42,0]	0.69 [17,5]	0.51 [13,0]
D20200503	5/16	3/16	1.65 [42,0]	0.69 [17,5]	0.51 [13,0]
D20200504	5/16	1/4	1.61 [41,0]	0.69 [17,5]	0.69 [17,5]
D20200603	3/8	3/16	1.48 [37,5]	0.79 [20,0]	0.51 [13,0]
D20200604	3/8	1/4	1.61 [41,0]	0.79 [20,0]	0.79 [20,0]
D20200605	3/8	5/16	1.63 [41,5]	0.79 [20,0]	0.79 [20,0]
D20200705	1/2	5/16	1.93 [49,0]	0.91 [23,0]	0.91 [23,0]
D20200706	1/2	3/8	1.95 [49,5]	0.91 [23,0]	0.91 [23,0]



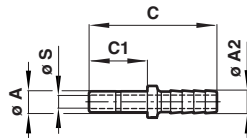
40° Union Elbow (Unequal)

Part Number	ø A	ø A1	C*	E*	ø K	ø K1
D205A0604	3/8	1/4	0.81 [20,5]	0.85 [21,5]	0.79 [20,0]	0.59 [15,0]
D205A0705	1/2	5/16	0.89 [22,5]	0.98 [25,0]	0.91 [23,0]	0.69 [17,5]



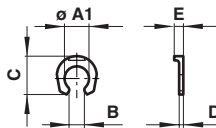
Stem Reducer (stem/tube)

Part Number	ø A	ø A1	C	F	G	ø K1
D20230402	1/4	5/32	1.30 [33,0]	0.69 [17,5]	0.61 [15,5]	0.51 [13,0]
D20230503	5/16	3/16	1.40 [35,5]	0.91 [23,0]	0.49 [12,5]	0.51 [13,0]
D20230504	5/16	1/4	1.44 [36,5]	0.73 [18,5]	0.71 [18,0]	0.59 [15,0]
D20230603	3/8	3/16	1.40 [35,5]	0.91 [23,0]	0.49 [12,5]	0.51 [13,0]
D20230604	3/8	1/4	1.57 [40,0]	0.83 [21,0]	0.73 [18,5]	0.59 [15,0]
D20230605	3/8	5/16	1.63 [41,5]	0.85 [21,5]	0.71 [18,0]	0.69 [17,5]
D20230705	1/2	5/16	1.57 [40,0]	1.02 [26,0]	0.55 [14,0]	0.69 [17,5]
D20230706	1/2	3/8	1.91 [48,5]	1.02 [26,0]	0.87 [22,0]	0.79 [20,0]



Stem Tailpiece Adapter (Stem/Barb)

Part Number	ø A	ø A2	C	C1	ø S
D20390405	1/4	5/16	1.52 [38,5]	0.69 [17,5]	0.18 [4,5]
D20390503	5/16	3/16	1.56 [39,5]	0.73 [18,5]	0.22 [5,5]
D20390504	5/16	1/4	1.56 [39,5]	0.73 [18,5]	0.22 [5,5]
D20390506	5/16	3/8	1.63 [41,5]	0.73 [18,5]	0.22 [5,5]
D20390604	3/8	1/4	1.71 [43,5]	0.89 [22,5]	0.26 [6,5]
D20390605	3/8	5/16	1.71 [43,5]	0.89 [22,5]	0.26 [6,5]
D20390606	3/8	3/8	1.77 [45,0]	0.89 [22,5]	0.26 [6,5]
D20390607	3/8	1/2	1.77 [45,0]	0.89 [22,5]	0.26 [6,5]
D20390706	1/2	3/8	1.89 [48,0]	1.00 [25,5]	0.37 [9,5]
D20390707	1/2	1/2	1.89 [48,0]	1.00 [25,5]	0.37 [9,5]



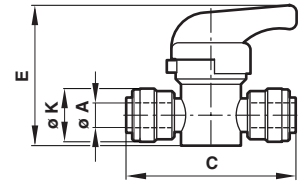
Locking Clip

Part Number	Tube O.D.	ø A1	B	C	D	E
D2LC0400	1/4	0.31 [8,0]	0.20 [5,0]	0.59 [15,0]	0.06 [1,5]	0.12 [3,0]
D2LC0700	1/2	0.57 [14,5]	0.43 [11,0]	0.83 [21,0]	0.10 [2,5]	0.18 [4,5]

PNEUFIT® D FITTINGS

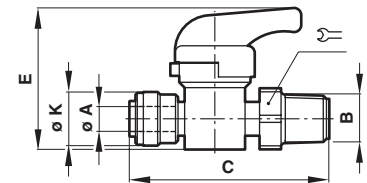
Inch Ø 5/32" to 1/2" O/D tube

Dimensions in Inches (mm)



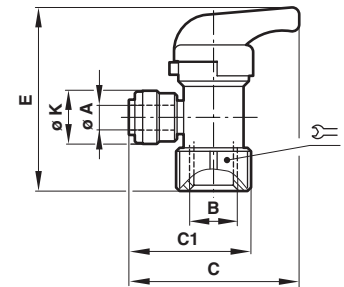
Hand Valve (Union)

Part Number	ø A	C	E	ø K
D20GR0400	1/4	1.89 [48,0]	1.56 [39,5]	0.59 [15,0]
D20GR0600	3/8	2.28 [58,0]	1.85 [47,0]	0.79 [20,0]
D20GR0700	1/2	2.62 [66,5]	1.77 [45,5]	0.91 [23,0]



Hand Valve (male adapter)

Part Number	ø A	B NPT Thread	C	E	ø K
D24GT0428	1/4	1/4	2.24 [57,0]	1.56 [39,5]	0.59 [15,0]
D24GT0638	3/8	3/8	2.46 [62,5]	1.79 [45,5]	0.79 [20,0]
D24GT0748	1/2	1/2	2.81 [71,5]	1.77 [45,5]	0.91 [23,0]



Hand Valve (female adapter)

Part Number	ø A	B NPT Thread	C	C1	E	ø K
D24GU0428	1/4	1/4	1.89 [48,0]	1.36 [34,5]	2.07 [52,5]	0.59 [15,0]
D24GU0638	3/8	3/8	2.30 [58,5]	1.65 [42,0]	2.28 [58,0]	0.79 [20,0]
D24GU0748	1/2	1/2	2.46 [62,5]	1.87 [47,5]	2.40 [61,0]	0.91 [23,0]

FLEETFIT VEHICLE PUSH-IN FITTINGS

Inch

Simple tube connection and disconnection - no tools required

Fewer component parts - Internally machined form in body to secure collet reduces number of potential leak paths

Corrosion resistant

Easy identification - All collets marked with tube size

Total fittings system solution

Reduced assembly & maintenance times provide time/labor savings

Greater reliability and reduced testing

Ease of tube insertion in areas of restricted access



TECHNICAL DATA

Operating Medium:

Compressed air

Maximum Working Pressure:

0 to 150 psi (0 to 10 bar)

Working Temperature:

-40°F to 220°F (-40°C to 100°C)

Materials:

Body (Straights), Tube support, Collet - Brass BS 2874 CZ 121

Body (Elbows, Tees) - Brass BS 2874 CZ 122

'O' Ring - Buna N (Low Nitrile).

Thread Sealant - Precoat 5

Tubing:

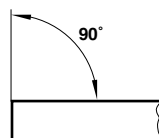
Tube should be to SAE J844 (Imperial) or DIN 74324 (Metric)

Standards & Legislation:

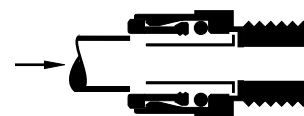
Fittings and Tubing Comply to Department Of Transport Federal Motor Vehicle Safety Standard, (DOT FMVSS 106) (Mandatory requirements for Inch tube fittings in U.S.A.)

Society for Automotive Engineers (SAE) J2494 (Inch tube and fittings) and meet DIN 74324 and German TÜV requirements (Metric Tube and Fittings)

Tube Connection / Disconnection



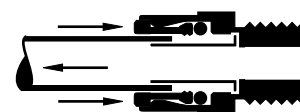
1. Ensure that the end of the tube is cut square and is free from burrs.



2. Push the tube through the collet into the fitting.



3. Continue pushing the tube through the 'O' ring until it bottoms on the tube stop. Then pull back on the tube to reinforce the collet teeth gripping action.



4. To disconnect - First ensure there is no air present. Push the tube into the fitting until it bottoms on the tube stop. Then hold down the collet and withdraw the tube.

Tube Connection / Disconnection

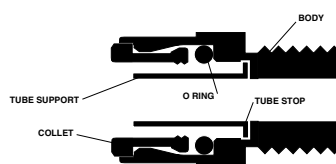
Body: The body has an internally machined form to secure the collet(s), "O" ring(s) and

Tube support(s): It also has internal & externally machined thread form(s) for connection to ports where applicable.

Collet: The purpose of the collet is to grip the tube and ensure it is retained by the fitting at all times.

"O" Ring: The "O" ring is to ensure adequate interference between the tube & fitting body therefore providing a pneumatic seal at all times.

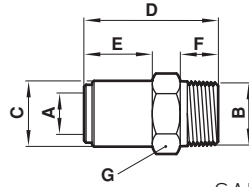
Tube Support: The tube support prevents the tube collapsing during extreme tensile loading conditions. Such conditions are only encountered during performance testing and far exceed those experienced during normal use.



FLEETFIT VEHICLE PUSH-IN FITTINGS

Inch

Dimensions in Inches (mm)

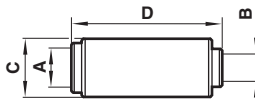


Male Connectors NPT

SAE 630102

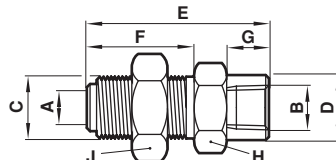
Product Number	A Tube O/D	B NPT	ØC	D	E	F	G A/F
95 4530 04	1/4"	1/8"	0.50 [12.7]	1.04 [26.3]	0.43 [10.8]	0.37 [9.5]	1/2"
95 4530 10	1/4"	1/4"	0.50 [12.7]	1.17 [29.8]	0.37 [9.3]	0.56 [14.3]	9/16"
95 4530 18	1/4"	3/8"	0.50 [12.7]	1.20 [30.5]	0.31 [8.0]	0.56 [14.3]	11/16"
95 4530 06	3/8"	1/8"	0.65 [16.5]	1.32 [33.6]	0.67 [17.1]	0.37 [9.5]	11/16"
95 4530 12	3/8"	1/4"	0.66 [16.5]	1.48 [37.6]	0.63 [16.1]	0.56 [14.3]	11/16"
95 4530 20	3/8"	3/8"	0.66 [16.5]	1.42 [36.1]	0.54 [13.6]	0.56 [14.3]	11/16"
95 4530 29	3/8"	1/2"	0.66 [16.5]	1.46 [37.1]	0.36 [9.1]	0.75 [19.0]	7/8"
95 4530 13	1/2"	1/4"	0.79 [20.0]	1.68 [42.6]	0.75 [19.1]	0.56 [14.3]	7/8"
95 4530 21	1/2"	3/8"	0.79 [20.0]	1.64 [41.6]	0.71 [18.1]	0.56 [14.3]	7/8"
95 4530 30	1/2"	1/2"	0.79 [20.0]	1.72 [43.6]	0.61 [15.6]	0.75 [19.0]	7/8"
95 4530 22	5/8"	3/8"	0.98 [25.0]	1.87 [47.5]	0.89 [22.5]	0.56 [14.3]	1-1/8"
95 4530 31	5/8"	1/2"	0.98 [25.0]	2.12 [53.5]	0.93 [23.5]	0.75 [19.0]	1-1/16"
95 4530 49	3/4"	1/2"	1.00 [25.5]	2.11 [53.5]	0.89 [22.5]	0.75 [19.0]	1-3/16"
95 4530 55	3/4"	3/4"	1.16 [29.5]	2.03 [51.5]	0.81 [20.5]	0.75 [19.0]	1-3/16"

Part numbers ending with "V" have Viton seals. *Special short 1/16" PTFE-SA short thread. 5/32" fittings have a Pneufit style body and collet



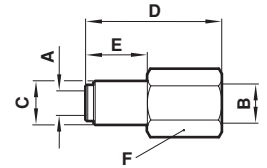
Reducing Unions (Inch) SAE 630101

Product Number	A Tube O/D	B Tube	ØC	D
94 4504 48	3/8"	1/4"	0.67 [17.0]	1.71 [43.5]
94 4504 64	1/2"	3/8"	0.81 [20.5]	1.91 [48.5]



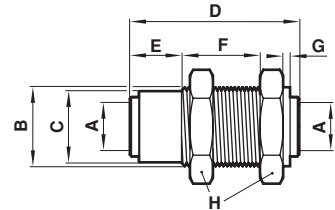
Female Bulkhead Connectors NPT Female, UNF

Product Number	A Tube O/D	B NPT Female	C UNF	ØD	E	F	G	H A/F	J A/F
95 4570 06	1/4"	1/8"	5/8"	0.63 [16.0]	1.32 [33.5]	0.69 [17.5]	0.28 [7.0]	0.87 [22.0]	15/16"
95 4570 01	1/4"	1/4"	5/8"	0.79 [20.0]	1.59 [40.5]	0.73 [18.5]	0.51 [13.0]	0.87 [22.0]	15/16"
95 4570 04	3/8"	3/8"	3/4"	0.79 [20.0]	2.20 [56.0]	1.30 [33.0]	0.51 [13.0]	0.94 [24.0]	1-1/8"
95 4570 02	3/8"	1/2"	3/4"	-	2.40 [61.0]	1.30 [33.0]	-	1.06 [27]	1-1/8"
95 4570 05	1/2"	3/8"	7/8"	-	1.89 [48.0]	1.50 [38.0]	-	1.06 [27]	1-5/16"
95 4570 07	1/2"	1/2"	7/8"	-	2.64 [67.0]	1.50 [38.0]	-	1.06 [27]	1-5/16"



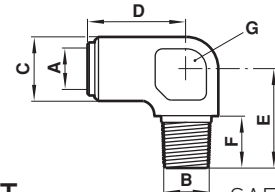
Female Connectors NPT Female SAE 630103

Product Number	A Tube O/D	B NPT	ØC	D	E	F A/F
95 4355 04	1/4"	1/8"	0.51 [13]	1.31 [33.3]	0.72 [18.3]	9/16"
95 4355 10	1/4"	1/4"	0.51 [13]	1.59 [40.3]	0.72 [18.3]	11/16"
95 4355 12	3/8"	1/4"	0.65 [16.5]	1.74 [44.3]	0.88 [22.3]	11/16"
95 4355 20	3/8"	3/8"	0.65 [16.5]	1.78 [45.3]	0.88 [22.3]	7/8"
95 4355 30	1/2"	1/2"	0.91 [23]	2.11 [53.5]	0.96 [24.5]	11/16"



Bulkhead Unions SAE 630103

Product Number	A Tube O/D	B Thread	Panel Hole ø	ØC	D	E	F (Max)	G (Min)	H A/F
94 4507 04	1/4"	M15 x 1.0	0.61 [15.5]	-	1.41 [35.9]	-	0.87 [22.0]	0.08 [2.0]	0.87 [22.0]
94 4507 06	3/8"	M20 x 1.5	0.81 [20.5]	0.70 [17.7]	1.75 [44.5]	0.33 [8.5]	0.87 [22.0]	0.08 [2.0]	1.06 [27.0]



Male Elbows NPT SAE 630202

Product Number	A Tube NPT O/D	B NPT	ØC	D	E	F	G A/F
95 4331 03	3/16"	1/8"	0.47 [12.0]	0.81 [20.5]	0.75 [19.0]	0.37 [9.5]	0.47 [12.0]
95 4331 04	1/4"	1/8"	0.55 [14.0]	0.81 [20.5]	0.79 [20.0]	0.37 [9.5]	0.55 [14.0]
95 4331 10	1/4"	1/4"	0.69 [17.5]	0.87 [22.0]	1.02 [26.0]	0.56 [14.3]	0.71 [18.0]
95 4331 18	1/4"	3/8"	0.82 [20.8]	0.94 [24.0]	1.10 [28.0]	0.56 [14.3]	0.87 [22.0]
95 4331 27	1/4"	1/2"	0.94 [24.0]	0.96 [24.5]	1.38 [35.0]	0.75 [19.1]	0.94 [24.0]
95 4331 06	3/8"	1/8"	0.69 [17.5]	1.08 [27.5]	0.87 [22.0]	0.37 [9.5]	0.71 [18.0]
95 4331 12	3/8"	1/4"	0.69 [17.5]	1.06 [27.0]	1.02 [26.0]	0.56 [14.3]	0.71 [18.0]
95 4331 20	3/8"	3/8"	0.82 [20.8]	1.14 [29.0]	1.10 [28.0]	0.56 [14.3]	0.87 [22.0]
95 4331 29	3/8"	1/2"	0.94 [24.0]	1.14 [29.0]	1.38 [35.0]	0.75 [19.1]	0.94 [24.0]
95 4331 13	1/2"	1/4"	0.87 [22.0]	1.22 [31.0]	1.14 [29.0]	0.56 [14.3]	0.87 [22.0]
95 4331 21	1/2"	3/8"	0.87 [22.0]	1.26 [32.0]	1.14 [29.0]	0.56 [14.3]	0.87 [22.0]
95 4331 30	1/2"	1/2"	0.94 [24.0]	1.28 [32.5]	1.38 [35.0]	0.75 [19.1]	0.94 [24.0]
95 4331 44	1/2"	3/4"	1.15 [29.3]	1.46 [37.0]	1.50 [38.0]	0.75 [19.1]	1.18 [30.0]
95 4331 98	5/8"	3/8"	1.06 [27.0]	1.44 [36.5]	1.22 [31.0]	0.56 [14.3]	0.87 [22.0]
95 4331 31	5/8"	1/2"	1.15 [29.3]	1.54 [39.0]	1.42 [36.0]	0.75 [19.1]	1.18 [30.0]
95 4331 48	3/4"	3/8"	1.18 [30.0]	1.52 [38.5]	1.28 [32.5]	0.56 [14.3]	0.94 [24.0]
95 4331 49	3/4"	1/2"	1.30 [33.0]	1.52 [38.5]	1.48 [37.5]	0.75 [19.1]	0.94 [24.0]
95 4331 55	3/4"	3/4"	1.15 [29.3]	1.59 [40.5]	1.50 [38.0]	0.75 [19.1]	1.18 [30.0]

Part numbers ending with a "V" have Viton seals. 5/32" fittings have a Pneufit stylebody and collet.

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com

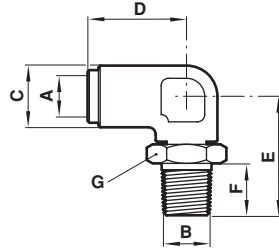
NORGREN
Express

FIT-23

FLEETFIT VEHICLE PUSH-IN FITTINGS

Inch

Dimensions in Inches (mm)

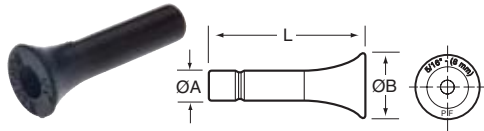


Male Swivel Elbows NPT

SAE 6302AA

Product Number	A Tube O/D	B NPT	ØC	D	E	F	G A/F
95 4114 04	1/4"	1/8"	0.51 (13.0)	0.83 (21.2)	0.91 (23.2)	0.37 (9.5)	0.43 (11.0)
95 4114 10	1/4"	1/4"	0.51 (13.0)	0.83 (21.2)	1.12 (28.4)	0.56 (14.3)	0.55 (14.0)
95 4114 18	1/4"	3/8"	0.59 (15.0)	0.85 (21.5)	1.25 (31.7)	0.56 (14.3)	0.75 (19.0)
95 4114 06	3/8"	1/8"	0.67 (17.0)	1.07 (27.3)	1.05 (26.7)	0.37 (9.5)	0.55 (14.0)
95 4114 12	3/8"	1/4"	0.67 (17.0)	1.07 (27.3)	1.29 (32.7)	0.56 (14.3)	0.75 (19.0)
95 4114 20	3/8"	3/8"	0.67 (17.0)	1.07 (27.3)	1.24 (31.6)	0.56 (14.3)	0.75 (19.0)
95 4114 29	3/8"	1/2"	0.67 (17.0)	1.07 (27.3)	1.44 (36.8)	0.75 (19.0)	0.87 (22.0)
95 4114 13	1/2"	1/4"	0.81 (20.6)	1.27 (32.3)	1.27 (32.2)	0.56 (14.3)	0.87 (22.0)
95 4114 21	1/2"	3/8"	0.81 (20.6)	1.27 (32.3)	1.42 (36.1)	0.56 (14.3)	0.87 (22.0)
95 4114 30	1/2"	1/2"	0.81 (20.6)	1.27 (32.3)	1.62 (41.1)	0.75 (19.0)	0.87 (22.0)
95 4114 49	3/4"	1/2"	1.18 (30.0)	1.52 (38.5)	1.77 (45.0)	0.75 (19.0)	0.87 (22.0)

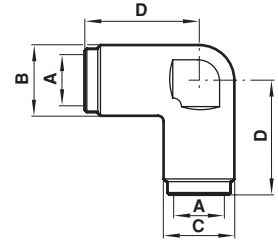
CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.



Plug*

SAE 630109

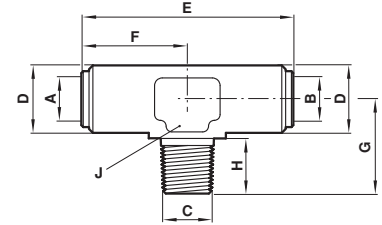
Part Number	A O/D Stem	ØB	L
94 0509 04	1/4"	0.46 (11.6)	1.12 (28.5)
94 0509 06	3/8"	0.65 (16.6)	1.34 (34.0)
94 0509 07	1/2"	0.65 (16.4)	1.48 (37.5)



Union Elbows

SAE 630201

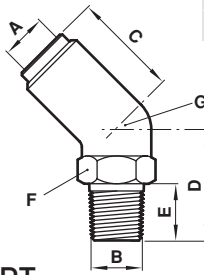
Product Number	A Tube O/D	ØB	ØC	D
94 4511 04	1/4"	0.43 (11.0)	0.51 (13.0)	0.83 (21.0)
94 4511 06	3/8"	0.57 (14.5)	0.67 (17.0)	1.07 (27.1)
94 4511 07	1/2"	0.71 (18.0)	0.81 (20.5)	1.26 (32.1)



Male Branch Tees NPT

SAE 630425

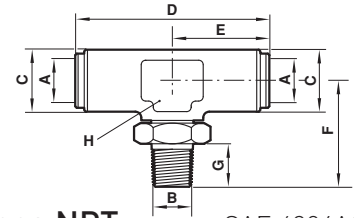
Product Number	A Tube O/D	B Tube O/D	C NPT	ØD	E	F	G	H	J A/F
95 4590 02	1/4"	1/4"	1/8"	0.55 (14.0)	1.69 (43.0)	0.85 (21.5)	0.79 (20.0)	0.37 (9.5)	0.55 (14.0)
95 4590 12	1/4"	1/4"	1/4"	0.69 (17.5)	1.77 (45.0)	0.89 (22.5)	0.96 (24.5)	0.56 (14.3)	0.71 (18.0)
95 4590 19	1/4"	1/4"	3/8"	0.82 (20.8)	1.93 (49.0)	0.96 (24.5)	1.10 (28.0)	0.56 (14.3)	0.87 (22.0)
95 4590 16	3/8"	1/4"	1/4"	0.69 (17.5)	1.97 (50.0)	0.89 (22.5)	0.96 (24.5)	0.56 (14.3)	0.71 (18.0)
95 4590 10	3/8"	3/8"	1/4"	0.69 (17.5)	2.17 (55.0)	1.08 (27.5)	0.96 (24.5)	0.56 (14.3)	0.71 (18.0)
95 4590 04	1/2"	1/2"	1/2"	0.91 (23.0)	2.68 (68.0)	1.34 (34.0)	1.42 (36.0)	0.75 (19.1)	0.94 (24.0)



45° Male Elbows NPT

SAE 630302

Product Number	A Tube O/D	B NPT	C	D	E	F A/F	G A/F
95 4600 04	1/4"	1/8"	0.87 (22.0)	0.81 (20.5)	0.37 (9.5)	0.56 (14.3)	-
95 4600 10	1/4"	1/4"	0.89 (22.5)	0.98 (25.0)	0.56 (14.3)	0.56 (14.3)	-
95 4600 06	3/8"	1/8"	1.02 (26.0)	0.93 (23.5)	0.37 (9.5)	0.75 (19.0)	-
95 4600 12	3/8"	1/4"	1.06 (27.0)	1.10 (28.0)	0.56 (14.3)	0.75 (19.0)	-
95 4600 20	3/8"	3/8"	1.10 (28.0)	1.12 (28.5)	0.56 (14.3)	0.75 (19.0)	-
95 4600 29	3/8"	1/2"	1.14 (29.0)	1.30 (33.0)	0.75 (19.1)	0.87 (22.0)	-
95 4600 13	1/2"	1/4"	1.22 (31.0)	1.10 (28.0)	0.56 (14.3)	0.87 (22.0)	-
95 4600 21	1/2"	3/8"	1.26 (32.0)	1.12 (28.5)	0.56 (14.3)	0.87 (22.0)	-
95 4600 30	1/2"	1/2"	1.30 (33.0)	1.30 (33.0)	0.75 (19.1)	0.87 (22.0)	-
95 4600 22	5/8"	3/8"	1.46 (37.0)	1.02 (26.0)	0.56 (14.3)	-	1.06 (27.0)
95 4600 31	5/8"	1/2"	1.46 (37.0)	1.22 (31.0)	0.75 (19.1)	-	1.06 (27.0)
95 4600 49	3/4"	1/2"	1.52 (38.5)	1.30 (33.0)	0.75 (19.1)	1.00 (25.4)	-



Male Swivel Branch Tees NPT

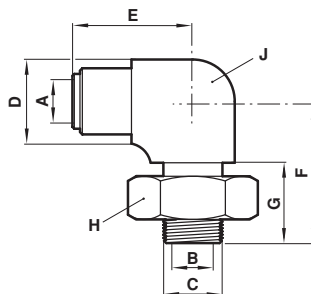
SAE 6304AC

Product Number	A Tube O/D	B NPT	ØC	D	E	F	G	H A/F
95 4111 04	1/4"	1/8"	0.51 (13.0)	1.67 (42.4)	0.83 (21.2)	0.91 (23.2)	0.37 (9.5)	0.43 (11.0)
95 4111 12	3/8"	1/4"	0.67 (17.0)	2.17 (55.0)	1.08 (27.5)	1.29 (32.7)	0.56 (14.3)	0.75 (19.0)
95 4111 20	3/8"	3/8"	0.67 (17.0)	2.17 (55.0)	1.08 (27.5)	1.24 (31.6)	0.56 (14.3)	0.75 (19.0)
95 4111 13	1/2"	1/4"	0.81 (20.6)	2.56 (65.0)	1.28 (32.5)	1.39 (35.2)	0.56 (14.3)	0.87 (22.0)
95 4111 21	1/2"	3/8"	0.81 (20.6)	2.56 (65.0)	1.28 (32.5)	1.42 (36.1)	0.56 (14.3)	0.87 (22.0)
95 4111 30	1/2"	1/2"	0.81 (20.6)	2.56 (65.0)	1.28 (32.5)	1.62 (41.1)	0.75 (19.1)	0.87 (22.0)

CAUTION: Swivel adapters are not suitable for use in continuously rotating or gyrating applications.

FLEETFIT VEHICLE PUSH-IN FITTINGS

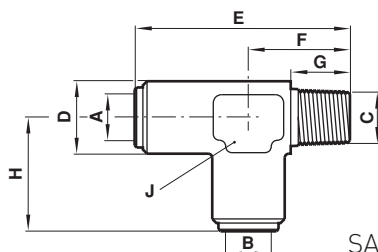
Inch
Dimensions in Inches (mm)



Male Bulkhead Elbows, NPT Female, UNF

SAE 631403

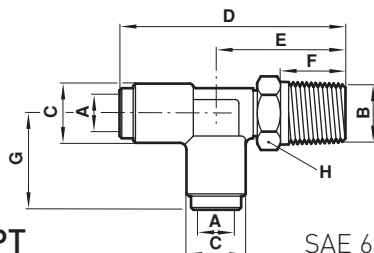
Product Number	A Tube O/D	B NPT Female	C UNF	ØD	E	F	G	H A/F	J A/F
95 4597 04	1/4"	1/8"	5/8"	0.81 [20.7]	1.00 [25.5]	1.18 [30.0]	0.63 [16.0]	15/16"	0.87 [22.0]
95 4597 01	3/8"	3/8"	7/8"	1.02 [26.0]	1.17 [29.7]	1.61 [41.0]	0.98 [25.0]	1-5/16"	0.67 [17.0]
95 4597 02	1/2"	3/8"	7/8"	1.02 [26.0]	1.33 [33.7]	1.61 [41.0]	0.98 [25.0]	1-5/16"	0.67 [17.0]



Male Run Tees NPT

SAE 630424

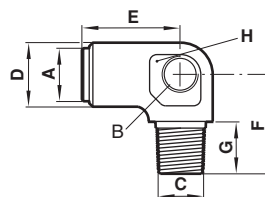
Product Number	A Tube O/D	B Tube O.D.	C NPT	ØD	E	F	G	H	J A/F
95 4586 28	1/4"	1/4"	1/8"	0.55 [14.0]	1.67 [42.5]	0.79 [20.0]	0.37 [9.5]	0.89 [22.5]	0.55 [14.0]
95 4586 13	1/4"	1/4"	1/4"	0.69 [17.5]	1.85 [47.0]	0.96 [24.5]	0.56 [14.3]	0.89 [22.5]	0.71 [18.0]
95 4586 17	1/4"	1/4"	3/8"	0.82 [20.8]	2.03 [51.5]	1.10 [28.0]	0.56 [14.3]	0.93 [23.5]	0.87 [22.0]
95 4586 07	1/4"	3/8"	3/8"	0.82 [20.8]	2.03 [51.5]	1.10 [28.0]	0.56 [14.3]	1.14 [29.0]	0.87 [22.0]
95 4586 05	3/8"	1/4"	1/4"	0.69 [17.5]	2.05 [52.0]	0.96 [24.5]	0.56 [14.3]	0.93 [23.5]	0.71 [18.0]
95 4586 27	3/8"	1/4"	3/8"	0.82 [20.8]	2.24 [57.0]	1.10 [28.0]	0.56 [14.3]	0.93 [23.5]	0.87 [22.0]
95 4586 03	3/8"	3/8"	1/4"	0.69 [17.5]	2.05 [52.0]	0.96 [24.5]	0.56 [14.3]	1.08 [27.5]	0.71 [18.0]
95 4586 10	3/8"	3/8"	3/8"	0.82 [20.8]	2.24 [57.0]	1.10 [28.0]	0.56 [14.3]	1.14 [29.0]	0.87 [22.0]
95 4586 04	3/8"	3/8"	1/2"	0.91 [23.0]	2.64 [67.0]	1.42 [36.0]	0.75 [19.1]	1.22 [31.0]	0.94 [24.0]
95 4586 26	3/8"	1/2"	3/8"	0.87 [22.0]	2.36 [60.0]	1.14 [29.0]	0.56 [14.3]	1.30 [33.0]	0.87 [22.0]
95 4586 20	1/2"	3/8"	3/8"	0.87 [22.0]	2.44 [62.0]	1.14 [29.0]	0.56 [14.3]	1.22 [31.0]	0.87 [22.0]
95 4586 11	1/2"	1/2"	3/8"	0.87 [22.0]	2.44 [62.0]	1.14 [29.0]	0.56 [14.3]	1.30 [33.0]	0.87 [22.0]



Male Swivel Run Tees NPT

SAE 6308AB

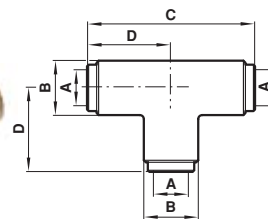
Product Number	A Tube O/D	B NPT	ØC	D	E	F	G	H A/F
95 4112 10	1/4"	1/4"	0.51 [13.0]	1.95 [49.6]	1.12 [28.4]	0.56 [14.3]	0.83 [21.2]	0.55 [14.0]
95 4112 12	3/8"	1/4"	0.67 [17.0]	2.36 [60.0]	1.29 [32.7]	0.56 [14.3]	1.07 [27.3]	0.75 [19.0]
95 4112 20	3/8"	3/8"	0.67 [17.0]	2.32 [58.9]	1.24 [31.6]	0.56 [14.3]	1.07 [27.3]	0.75 [19.0]



90° Fixed Tee

Product Number	A Tube O/D	B NPT Female	C NPT	ØD	E	F	G	H A/F
95 4565 03	3/8"	1/8"	3/8"	0.83 [21.0]	1.12 [28.5]	1.10 [28.0]	0.56 [14.3]	0.87 [22.0]
95 4565 04	3/8"	1/8"	1/4"	0.83 [21.0]	1.20 [30.5]	1.10 [28.0]	0.56 [14.3]	0.87 [22.0]
95 4565 01	1/2"	1/8"	3/8"	0.87 [22.0]	1.26 [32.0]	1.14 [29.0]	0.56 [14.3]	0.87 [22.0]
95 4565 02	1/2"	1/4"	1/2"	0.94 [24.0]	1.28 [32.5]	1.38 [35.0]	0.75 [19.1]	0.94 [24.0]

Note: Ports are threaded on side shown.



Union Tee

SAE 630401

Product Number	A Tube O/D	ØB	C	D
94 4514 04	1/4"	0.51 [13.0]	1.65 [42.0]	0.83 [21.0]
94 4514 06	3/8"	0.67 [17.0]	2.13 [54.2]	1.07 [27.1]
94 4514 07	1/2"	0.81 [20.5]	2.53 [64.2]	1.26 [32.1]
94 4514 08	5/8"	1.06 [27.0]	3.07 [78.0]	1.54 [39.0]

Service – Quality – Delivery

NorgrenExpress.com – 1.800.514.0129 – Help@NorgrenExpress.com

NORGREN
Express

FIT-25

PNEUFIT® PUSH-IN ELBOW BANJO FLOW CONTROLS

1/8" to 1/2" O/D tube

High maximum flow, progressive flow gain, and positive tube grip

Silicone free 'O'-ring seals

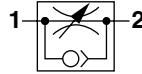
Non-PTFE based thread sealant on all BSP taper threads (VA0, VB0, TA0)

Easy tube insertion for rapid assembly

For simple and quick assembly of pneumatic circuits

Wide range available

Reliable and corrosion resistant



TECHNICAL DATA

Fluid:

Compressed air

Operating pressure:

5 to 150 psig (.3 to 10 bar) unless otherwise stated (dependent upon tubing specification).

Temperature range:

0° to 175°F (-20° to 80°C).

Materials:

Body: Nickel plated brass, glass filled nylon, or PBT

Collet: Nickel plated brass

Grabring: stainless steel

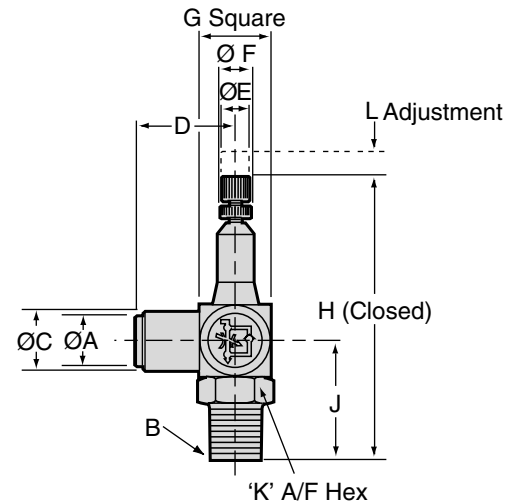
'O'-ring: Silicone free nitrile rubber

Sealing washer (parallel threads): Nitrile 'O'-ring

Thread sealant: non-PTFE

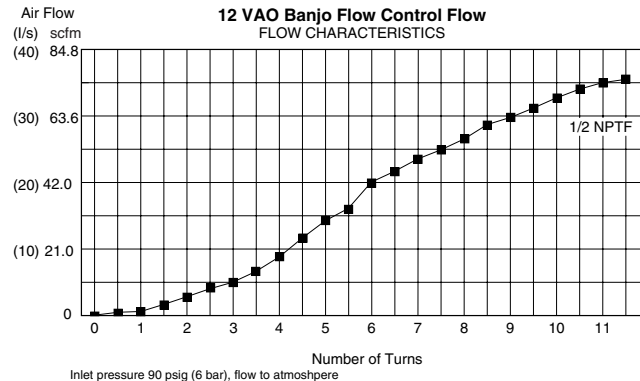
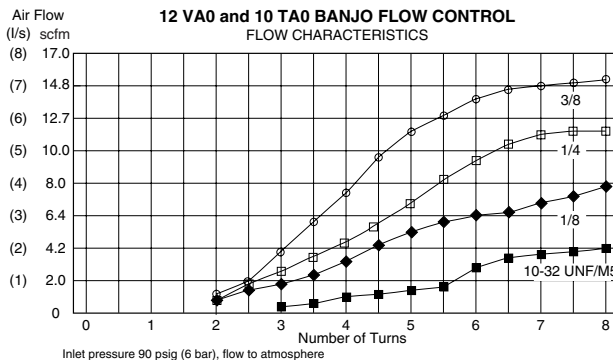
Tube types:

Nylon 11 or 12, polyurethane (95 durometer and 85 durometer on C0 and C2 models)



VA0 and TA0 Series

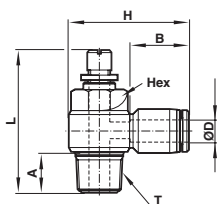
Part Number	A O.D. Tube	B NPT or UNF Thread	C	D	E	F	G	H	J	K A/F	L Adj
12 VA0 0210	5/32"	10-32 UNF	0.37	1.04	0.16	0.28	0.38	1.51	0.45	-	0.12
12 VA0 0218	5/32"	1/8	0.45	0.87	0.31	0.35	0.63	2.09	0.89	9/16"	0.12
12 VA0 0418	1/4"	1/8	0.51	0.91	0.31	0.35	0.63	2.09	0.89	9/16"	0.12
12 VA0 0428	1/4"	1/4	0.53	1.00	0.39	0.43	0.79	2.64	1.16	11/16"	0.24
12 VA0 0628	3/8"	1/4	0.77	1.24	0.39	0.43	0.79	2.64	1.16	11/16"	0.24
12 VA0 0638	3/8"	3/8	0.77	1.28	0.47	0.51	0.87	3.07	1.30	3/4"	0.24
12 VA0 0748	1/2"	1/2"	0.91	1.50	0.63	0.71	1.06	3.66	1.65	7/8"	0.28



PNEUFIT® PUSH-IN ELBOW BANJO FLOW CONTROLS

1/8" to 1/2" O/D tube

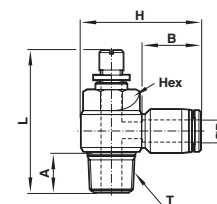
Dimensions in Inches (mm)



C2VA0

Banjo Flow Control (inch)
(Regulating out)

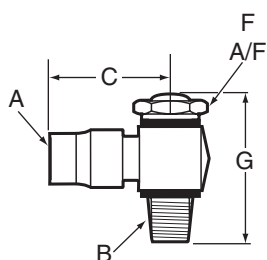
Part Number	ØD	T NPT or UNF Thrd	L min	L max	H	B	A	Hex
C2VA00110	1/8	10/32 UNF	1.07 [27.2]	1.19 [30.2]	0.85 [21.6]	0.44 [11.2]	0.14 [3.6]	0.31 [7.9]
C2VA00210	5/32	10/32 UNF	1.07 [27.2]	1.19 [30.2]	0.99 [25.1]	0.64 [16.3]	0.14 [3.6]	0.31 [7.9]
C2VA00310	3/16	10/32 UNF	1.07 [27.2]	1.19 [30.2]	1.05 [26.7]	0.66 [16.8]	0.14 [3.6]	0.31 [7.9]
C2VA00410	1/4	10/32 UNF	1.07 [27.2]	1.19 [30.2]	1.13 [28.7]	0.69 [17.5]	0.14 [3.6]	0.31 [7.9]
C2VA00218	5/32	1/8	1.37 [34.8]	1.58 [40.1]	1.2 [30.5]	0.64 [16.3]	0.31 [7.9]	0.43 [10.9]
C2VA00318	3/16	1/8	1.37 [34.8]	1.58 [40.1]	1.24 [31.5]	0.66 [16.8]	0.31 [7.9]	0.43 [10.9]
C2VA00418	1/4	1/8	1.37 [34.8]	1.58 [40.1]	1.26 [32.0]	0.69 [17.5]	0.31 [7.9]	0.43 [10.9]
C2VA00518	5/16	1/8	1.37 [34.8]	1.58 [40.1]	1.3 [33.0]	0.74 [18.8]	0.31 [7.9]	0.43 [10.9]
C2VA00228	5/32	1/4	1.57 [40.0]	1.80 [45.7]	1.36 [34.5]	0.64 [16.3]	0.39 [9.9]	0.59 [15.0]
C2VA00328	3/16	1/4	1.57 [40.0]	1.80 [45.7]	1.39 [35.3]	0.66 [16.8]	0.39 [9.9]	0.59 [15.0]
C2VA00428	1/4	1/4	1.57 [40.0]	1.80 [45.7]	1.41 [35.8]	0.69 [17.5]	0.39 [9.9]	0.59 [15.0]
C2VA00528	5/16	1/4	1.57 [40.0]	1.80 [45.7]	1.45 [36.8]	0.74 [18.8]	0.39 [9.9]	0.59 [15.0]
C2VA00628	3/8	1/4	1.57 [40.0]	1.80 [45.7]	1.48 [37.6]	0.8 [20.3]	0.39 [9.9]	0.59 [15.0]
C2VA00438	1/4	3/8	1.84 [46.7]	2.17 [55.0]	1.56 [39.6]	0.69 [17.5]	0.43 [10.9]	0.75 [19.0]
C2VA00538	5/16	3/8	1.84 [46.7]	2.17 [55.0]	1.58 [40.1]	0.74 [18.8]	0.43 [10.9]	0.75 [19.0]
C2VA00638	3/8	3/8	1.84 [46.7]	2.17 [55.0]	1.66 [42.2]	0.8 [20.3]	0.43 [10.9]	0.75 [19.0]
C2VA00738	1/2	3/8	1.84 [46.7]	2.17 [55.0]	1.78 [45.2]	0.87 [22.1]	0.43 [10.9]	0.75 [19.0]
C2VA00548	5/16	1/2	2.09 [53.0]	2.37 [60.2]	1.8 [45.7]	0.74 [18.8]	0.55 [14.0]	0.94 [23.9]
C2VA00648	3/8	1/2	2.09 [53.0]	2.37 [60.2]	1.86 [47.2]	0.8 [20.3]	0.55 [14.0]	0.94 [23.9]
C2VA00748	1/2	1/2	2.09 [53.0]	2.37 [60.2]	1.99 [50.5]	0.87 [22.1]	0.55 [14.0]	0.94 [23.9]



C2WA0

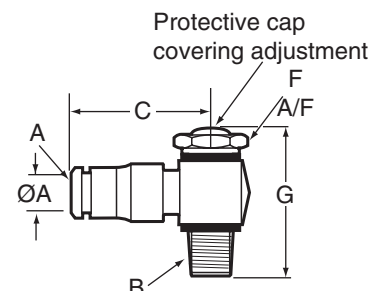
Banjo Flow Control (inch)
(Regulating in)

Part Number	ØD	T NPT or UNF Thrd	L min	L max	H	B	A	Hex
C2WA00110	1/8	10/32 UNF	1.07 [27.2]	1.19 [30.2]	0.85 [21.6]	0.44 [11.2]	0.14 [3.6]	0.31 [7.9]
C2WA00210	5/32	10/32 UNF	1.07 [27.2]	1.19 [30.2]	0.99 [25.1]	0.64 [16.3]	0.14 [3.6]	0.31 [7.9]
C2WA00310	3/16	10/32 UNF	1.07 [27.2]	1.19 [30.2]	1.03 [26.2]	0.66 [16.8]	0.14 [3.6]	0.31 [7.9]
C2WA00410	1/4	10/32 UNF	1.07 [27.2]	1.19 [30.2]	1.13 [28.7]	0.69 [17.5]	0.14 [3.6]	0.31 [7.9]
C2WA00218	5/32	1/8	1.37 [34.8]	1.58 [40.1]	1.2 [30.5]	0.64 [16.3]	0.31 [7.9]	0.43 [10.9]
C2WA00318	3/16	1/8	1.37 [34.8]	1.58 [40.1]	1.24 [31.5]	0.66 [16.8]	0.31 [7.9]	0.43 [10.9]
C2WA00418	1/4	1/8	1.37 [34.8]	1.58 [40.1]	1.26 [32.0]	0.69 [17.5]	0.31 [7.9]	0.43 [10.9]
C2WA00518	5/16	1/8	1.37 [34.8]	1.58 [40.1]	1.3 [33.0]	0.74 [18.8]	0.31 [7.9]	0.43 [10.9]
C2WA00228	5/32	1/4	1.57 [40.0]	1.80 [45.7]	1.36 [34.5]	0.64 [16.3]	0.39 [9.9]	0.59 [15.0]
C2WA00328	3/16	1/4	1.57 [40.0]	1.80 [45.7]	1.39 [35.3]	0.66 [16.8]	0.39 [9.9]	0.59 [15.0]
C2WA00428	1/4	1/4	1.57 [40.0]	1.80 [45.7]	1.39 [35.3]	0.66 [16.8]	0.39 [9.9]	0.59 [15.0]
C2WA00528	5/16	1/4	1.57 [40.0]	1.80 [45.7]	1.45 [36.8]	0.74 [18.8]	0.39 [9.9]	0.59 [15.0]
C2WA00628	3/8	1/4	1.57 [40.0]	1.80 [45.7]	1.48 [37.6]	0.8 [20.3]	0.39 [9.9]	0.59 [15.0]
C2WA00438	1/4	3/8	1.84 [46.7]	2.17 [55.0]	1.56 [39.6]	0.69 [17.5]	0.43 [10.9]	0.75 [19.0]
C2WA00538	5/16	3/8	1.84 [46.7]	2.17 [55.0]	1.58 [40.1]	0.74 [18.8]	0.43 [10.9]	0.75 [19.0]
C2WA00638	3/8	3/8	1.84 [46.7]	2.17 [55.0]	1.66 [42.2]	0.8 [20.3]	0.43 [10.9]	0.75 [19.0]
C2WA00738	1/2	1/2	1.84 [46.7]	2.17 [55.0]	1.78 [45.2]	0.87 [22.1]	0.43 [10.9]	0.75 [19.0]
C2WA00548	5/16	1/2	2.09 [53.0]	2.37 [60.2]	1.8 [45.7]	0.74 [18.8]	0.55 [14.0]	0.94 [23.9]
C2WA00648	3/8	1/2	2.09 [53.0]	2.37 [60.2]	1.86 [47.2]	0.8 [20.3]	0.55 [14.0]	0.94 [23.9]
C2WA00748	1/2	1/2	2.09 [53.0]	2.37 [60.2]	1.99 [50.5]	0.87 [22.1]	0.55 [14.0]	0.94 [23.9]



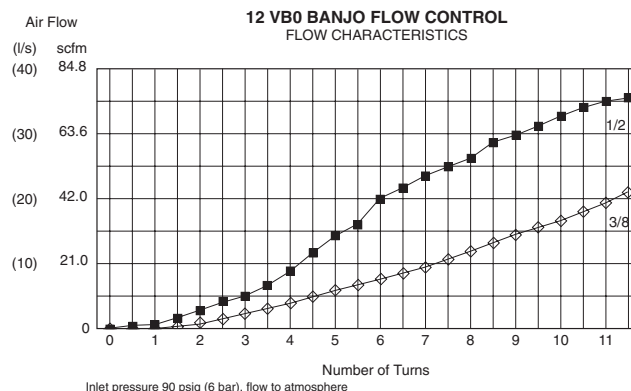
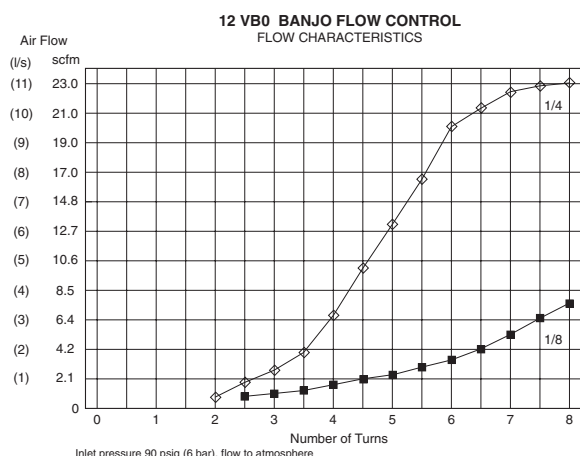
VB0 Series

Part Number	A NPT Female	B NPT Male	C	F	G
12 VB0 1818	1/8	1/8	0.83	9/16"	1.57
12 VB0 2828	1/4	1/4	1.14	3/4"	1.83
12 VB0 3838	3/8	3/8	1.24	7/8"	2.22
12 VB0 4848	1/2	1/2	1.53	1 1/16"	2.55



VB0 Series

Part Number	A O.D. Tube	B NPT or UNF Thread	C	F A/F	G
12 VB0 0210	5/32"	10-32 UNF	0.74	-	1.06
12 VB0 0218	5/32"	1/8	0.88	9/16"	1.57
12 VB0 0418	1/4"	1/8	0.91	9/16"	1.57
12 VB0 0428	1/4"	1/4	0.99	3/4"	1.83
12 VB0 0628	3/8"	1/4	1.23	3/4"	1.83
12 VB0 0638	3/8"	3/8	1.29	7/8"	2.22
12 VB0 0738	1/2"	3/8	1.46	7/8"	2.22
12 VB0 0748	1/2"	1/2	1.56	1 1/16"	2.55



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FIT-27

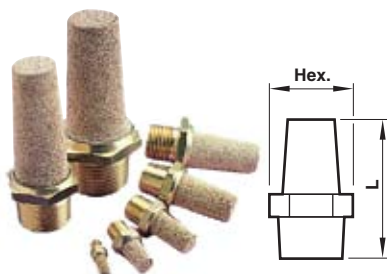
5

FITTINGS, TUBING & ACCESSORIES

MUFFLERS AND SILENCERS

Inch

Dimensions in Inches (mm)



Sintered Bronze Mufflers

Part Number	Port Size NPT	Flow Factor Cv	Hex.	L
MS000A	10-32	—	5/16	0.70 [18]
MS001A	1/8"	0.7	7/16	1.13 [29]
MS002A	1/4"	1.4	9/16	1.38 [35]
MS003A	3/8"	1.9	11/16	1.50 [38]
MS004A	1/2"	3.8	7/8	1.88 [48]
MS006A	3/4"	6.5	1-1/16	2.25 [57]
MS008A	1"	10.5	1-5/16	2.88 [73]
MS010A	1-1/4"	11.8	1-11/16	3.25 [83]
MS012A	1-1/2"	18.3	2	3.69 [94]



Quietaire Heavy Duty Mufflers

Male thread

Part Number	Port Size (E) PTF	A	B	C	D
MB001A	1/8"	0.83 [21.1]	1.65 [41.9]	0.24 [6.1]	0.81 [20.6]
MB002A	1/4"	0.83 [21.1]	1.77 [45.0]	0.35 [8.9]	0.81 [20.6]
MB003A	3/8"	1.26 [32.0]	3.07 [78.0]	0.35 [8.9]	1.25 [31.8]
MB004A	1/2"	1.26 [32.0]	3.27 [83.1]	0.47 [11.9]	1.25 [31.8]
MB006A	3/4"	2.01 [51.1]	4.65 [118.1]	0.47 [11.9]	2.00 [50.8]
MB008A	1"	2.01 [51.1]	4.65 [118.1]	0.59 [15.0]	2.00 [50.8]

Female thread

Part Number	Port Size (E) PTF	A	B	C	D
MA001A	1/8"	0.83 [21.1]	1.65 [41.9]	0.24 [6.1]	0.81 [20.6]
MA002A	1/4"	0.83 [21.1]	1.77 [45.0]	0.35 [8.9]	0.81 [20.6]
MA003A	3/8"	1.26 [32.0]	3.07 [78.0]	0.35 [8.9]	1.25 [31.8]
MA004A	1/2"	1.26 [32.0]	3.27 [83.1]	0.47 [11.9]	1.25 [31.8]
MA006A	3/4"	2.01 [51.1]	4.65 [118.1]	0.47 [11.9]	2.00 [50.8]
MA008A	1"	2.01 [51.1]	4.65 [118.1]	0.59 [15.0]	2.00 [50.8]
MA010A	1 1/4"	2.52 [64.0]	5.67 [144.0]	0.59 [15.0]	2.50 [63.5]



Porous Plastic Mufflers

Part Number	Port Size NPT	L (mm)	D (mm)	Weight oz. (g)
C/S1	1/8"	1.12 [28.3]	0.50 [12.5]	0.06 [1.3]
C/S2	1/4"	1.40 [35.5]	0.62 [15.5]	0.10 [2.9]
C/S3	3/8"	2.20 [56.0]	0.73 [18.5]	0.26 [6.7]
C/S4	1/2"	2.65 [67.0]	0.91 [23.0]	0.41 [11.5]
C/S6	3/4"	4.88 [123.5]	1.50 [38.0]	1.41 [40.0]
C/S8	1"	5.54 [140.5]	2.00 [49.0]	2.12 [60.0]



Plastic Speed Control

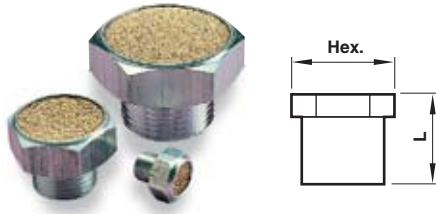
Part Number	Port Size NPT	Flow Factor Cv	Dia.	L
MQ004A	1/2"	2.5	3.54 [90]	7.09 [180]
MQ006A	3/4"	2.5	3.54 [90]	7.09 [180]
MQ008A	1"	7.7	4.33 [110]	10.51 [267]
MQ010A	1-1/4"	7.7	4.33 [110]	10.51 [267]



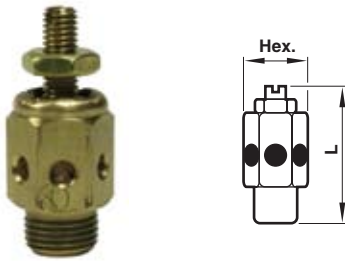
MUFFLERS AND SILENCERS

Inch
Dimensions in Inches (mm)

Breather Vents

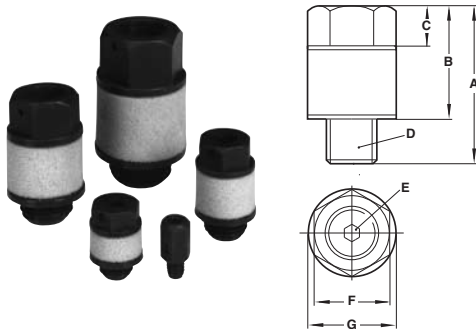


Part Number	Port Size NPT	Flow Factor Cv	Hex A/F	L
MV001A	1/8"	0.1	7/16	0.44 [11]
MV002A	1/4"	0.1	9/16	0.63 [16]
MV003A	3/8"	0.3	11/16	0.75 [19]
MV004A	1/2"	0.5	7/8	0.88 [22]
MV006A	3/4"	1.3	1-1/16	1.00 [25]
MV008A	1"	1.6	1-5/16	1.31 [33]
MV010A	1-1/4"	4.2	1-11/16	1.44 [37]
MV012A	1-1/2"	5.2	2	1.50 [38]



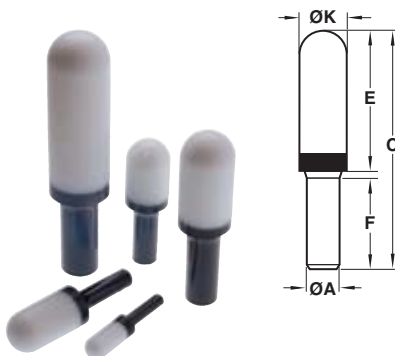
Sintered Bronze Speed Control

Part Number	Port Size NPT	Hex	L
MM001A	1/8"	1/2	1.53 [39]
MM002A	1/4"	9/16	1.91 [49]
MM003A	3/8"	11/16	1.91 [49]
MM004A	1/2"	7/8	2.34 [59]
MM006A	3/4"	1-1/16	2.84 [72]
MM008A	1"	1-5/16	3.03 [77]



High Performance Flow Control Muffler

Part Number	Port NPT	Max. flow Cv*	A	B	C	D Thr'd	E A/F	F A/F	G
T20A1800	1/8"	0.4	0.81 [20.6]	0.57 [20.5]	0.20 [14.5]	1/8 [5.0]	2.5 [63.5]	0.51 [13]	0.59 [15]
T20A2800	1/4"	0.8	1.14 [29.0]	0.87 [29.0]	0.27 [22.0]	1/4 [7.0]	2.5 [63.5]	0.59 [15]	0.71 [18]
T20A3800	3/8"	1.7	1.50 [38.1]	1.18 [38.0]	0.41 [30.0]	3/8 [10.5]	2.5 [63.5]	0.79 [20]	0.94 [24]
T20A4800	1/2"	2.4	1.97 [50.0]	1.57 [50.0]	0.59 [40.0]	1/2 [15.0]	2.5 [63.5]	0.98 [25]	1.18 [30]



Stem Silencers

Part Number	A Port NPT	C	E	F	ØK
T45Y0002	5/32"	1.30 [33.0]	0.67 [17.0]	0.59 [15.0]	0.26 [6.5]
T45Y0004	1/4"	1.77 [45.0]	0.98 [25.0]	0.67 [17.0]	0.49 [12.5]
T45Y0006	3/8"	2.26 [57.5]	1.22 [31.0]	0.91 [23.0]	0.61 [15.5]



Service – Quality – Delivery

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FIT-29

PUSH-IN NON-RETURN VALVES

T51, T52 and T53 Series

Ø 5/32" to 3/8" inch O/D tube

Dimensions in Inches (mm)

Low cracking pressure

Releasable grab ring technology combining plastic and brass components for a compact and superior fitting design

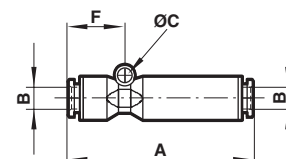
Non-PTFE based thread sealant on taper threads

Molded mounting brackets on tube connector designs (PIF/PIF connection)

Red release sleeve indicating metric tube sizes

Grey release sleeve indicating inch tube sizes

Reliable and corrosion resistant



TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated or non-lubricated, vacuum

Operating pressure:

1.5 to 145 psig (0.1 to 10 bar)

Ambient temperature:

0° to 175°F (-20° to +80°C)

Consult our Technical Service for use below 35°F (2°C)

Mounting:

Tube/tube PIF

Tube PIF/male thread

Male threaded/tube PIF

Materials

5/32" up to 5/16" OD:

Body: Plastic PBT

Seal: silicon free nitrile

Valve: plastic PBT

Natural brass insert

Spring: stainless steel

Grab ring: stainless steel, (5/32" to 5/16")

O/D fitted with collet connection

Collet: nickel plated brass

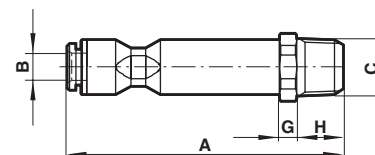
Body: black anodized aluminum

Valve and insert: aluminum

T51

PIF/PIF INCH Part Number	Function	Tube size	A	B	F	ØC
T51Y0002	tube/tube	5/32"	2.0 (50.8)	5/32	0.6 (15.2)	0.2 (5.1)
T51Y0004	tube/tube	1/4"	2.2 (55.9)	1/4	0.7 (17.8)	0.2 (5.1)
T51Y0005	tube/tube	5/16"	2.5 (63.5)	5/16	0.7 (17.8)	0.2 (5.1)
T51Y0006*	tube/tube	3/8"	3.0 (76.2)	3/8	-	-
T51Y0007*	tube/tube	1/2"	3.5 (88.4)	1/2	-	-

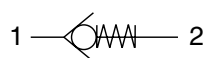
* Available only with collet tube connection



T52, T53

Part Number	Inch PIF/ Male Thrd.	Part Number	Inch Male Thrd./ PIF
T52A1802	5/32" x 1/8"	T53A1802	1/8 x 5/32"
T52A1804	1/4" x 1/8"	T53A1804	1/8 x 1/4"
T52A2804	1/4" x 1/4"	T53A2804	1/4 x 1/4"

Part Number		A	B	C**	G	H
T52A1802	T53A1802	2.1 (53.3)	5/32	1/8	0.2 (5.1)	0.4 (10.2)
T52A1804	T53A1804	2.3 (58.4)	1/4	1/8	0.2 (5.1)	0.4 (10.2)
T52A2804	T53A2804	2.5 (63.5)	1/4	1/4	0.2 (5.1)	0.6 (15.2)



NON-RETURN VALVES

T55 and T56 series

In-line 1/8 to 1/2" NPT
Dimensions in Inches (mm)



T55

T56

- Permit free flow of air in one direction only
- Simple, reliable design
- Silicone free
- Low cracking pressure

TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated and non-lubricated

Operating pressure:

1.5 to 145 psig [0.1 to 10 bar]

Operating temperature:

0°F to 175°F* [-20°C to +80°C]

*Consult our Technical Service for use below 35°F (+2°C)

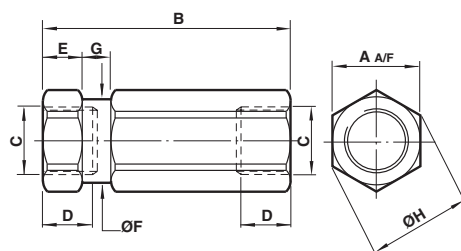
Materials

Body: aluminum-T55

O-ring: nitrile rubber

Valve: POM

Spring: stainless steel



T55 Series

Part Number NPT	Port Size	Flow Factor Cv**	Cracking pressure	Weight oz
T55A1800	1/8	0.59	0.73	0.53
T55A2800	1/4	1.35	0.73	0.88
T55A3800	3/8	2.20	0.73	2.12
T55A4800	1/2	3.70	0.73	2.82

Part Number	A	B	C	D	E	F	G	H
T55A1800	0.55 [14.0]	1.67 [42.4]	0.13 [3.2]	-	0.28 [7.1]	0.54 [13.7]	0.16 [4.1]	0.59 [15.0]
T55A2800	0.67 [17.0]	2.13 [54.1]	0.25 [6.4]	-	0.31 [7.9]	0.66 [16.8]	0.20 [5.1]	0.73 [18.5]
T55A3800	0.94 [23.9]	2.48 [63.0]	0.38 [9.5]	-	0.35 [8.9]	0.93 [23.6]	0.28 [7.1]	1.02 [25.9]
T55A4800	1.06 [26.9]	3.03 [77.0]	0.50 [12.7]	-	0.47 [11.9]	1.05 [26.7]	0.39 [9.9]	1.18 [30.0]

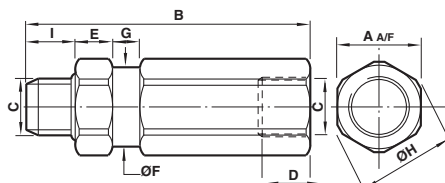
** Cv measured in US gal/min.

T56 Series

Model NPT	Port Size	Flow Factor Cv**	Cracking pressure	Weight oz
T56A1800	1/8	0.59	0.73	1.59
T56A2800	1/4	1.23	0.73	2.82

Part Number	A	B	C	D	F	G	H	I
T56A1800	0.55 [14.0]	1.93 [49.0]	1/8	-	0.54 [13.7]	0.16 [4.1]	0.59 [15.0]	0.37 [9.4]
T56A2800	0.67 [17.0]	2.46 [62.5]	1/4	-	0.66 [16.8]	0.20 [5.1]	0.73 [18.5]	0.56 [14.2]

** Cv measured in US gal/min.



HEAVY DUTY FLOW CONTROLS, UNI-DIRECTIONAL

M/800 series

In-line – 1/8" to 1" NPT

Dimensions in Inches (mm)

Line mounted general purpose regulators

Captive regulating needle will not blow out when unscrewed

Calibrated adjusting knob, can be locked

Suitable for wall mounting

High operating pressure



TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated and non-lubricated

Operating pressure:

5 to 230 psig (0.3 to 16 bar)

Operating temperature:

0°F to 175°F (-20°C to +80°C) [Alternative models to 300°F [150°C]]

Consult our Technical Service for use below 35°F (+2°C)

Materials

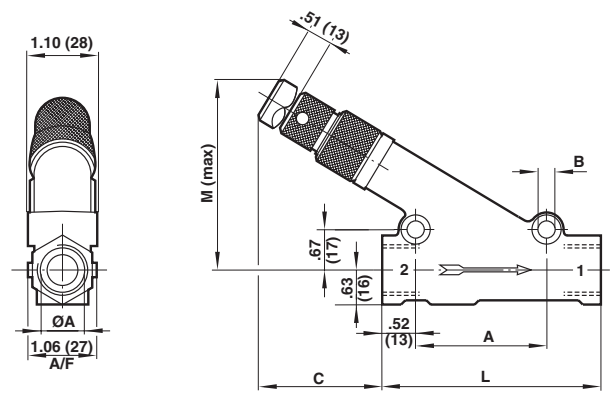
S/836, M/837, M/839:

Body, adjusting knob and locking ring: brass

M/840, M/855:

Body, adjusting knob and locking ring: aluminum

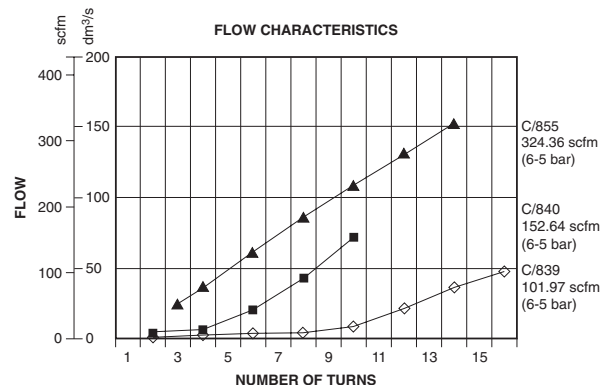
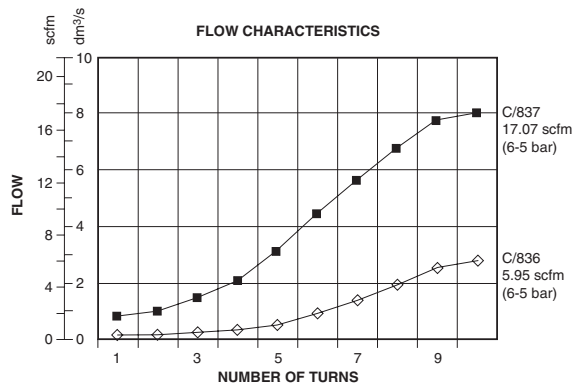
Seals: nitrile rubber.



M/800

Part Number	Port NPT	Max. Regulating Flow Cv	Max. Free Flow Cv
C/836	1/8	0.17	0.6
C/837	1/4	0.49	1.0
C/839	1/2	2.6	3.6
C/840	3/4	3.7	6.5
C/855	1	8.4	8.9

Part Number	Thread	A	L	C	B	M (max)	D
C/836	1/8	0.96 [24.4]	1.81 [46.0]	1.06 [26.9]	0.33 [8.4]	3.11 [79.0]	0.67 [17.0]
C/837	1/4	1.63 [41.4]	2.36 [59.9]	0.98 [24.9]	0.20 [5.1]	1.46 [37.1]	0.87 [22.1]
C/839	1/2	2.25 [57.2]	3.70 [94.0]	2.09 [53.1]	0.33 [8.4]	3.11 [79.0]	1.10 [27.9]
C/840	3/4	2.99 [75.9]	4.69 [119.1]	2.60 [66.0]	0.34 [8.6]	4.09 [103.9]	1.38 [35.1]
C/855	1	3.54 [89.9]	5.90 [149.9]	4.22 [107.2]	0.51 [13.0]	5.79 [147.1]	2.04 [51.8]

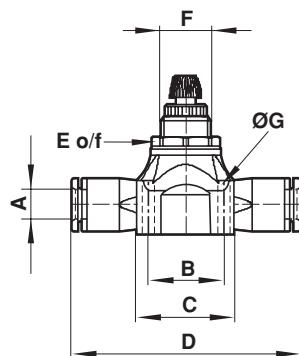


PUSH-IN FLOW CONTROLS, UNI-DIRECTIONAL

T15 series

In-line - Ø 1/8 to 1/2" O/D inch tube

Dimensions in Inches (mm)



T15

Part Number	Tube NPT	Maxi regulated flow factor Cv**	Free flow factor Cv**	oz (kg)
T15Y0001	1/8"	0.3	0.30	0.46 (0.013)
T15Y0002	5/32"	0.45	0.45	0.46 (0.013)
T15Y0003*	3/16"	0.85	0.85	1.13 (0.032)
T15Y0004	1/4"	1.3	1.30	0.99 (0.028)
T15Y0005	5/16"	2.2	2.20	1.66 (0.047)
T15Y0006	3/8"	2.9	3.20	3.28 (0.093)
T15Y0007*	1/2"	5.4	5.40	0.50 (0.0143)

Part Number	A	B	C	D	E	F	ØG
T15Y0001	1/8	0.51 [13.0]	0.67 [17.0]	1.81 [46.0]	0.51 [13.0]	M10x1	0.09 [2.3]
T15Y0002	5/32	0.51 [13.0]	0.67 [17.0]	1.81 [46.0]	0.51 [13.0]	M10x1	0.09 [2.3]
T15Y0003	3/16	0.75 [19.1]	0.98 [24.9]	1.93 [49.0]	0.59 [15.0]	M12x1	0.14 [3.6]
T15Y0004	1/4	0.75 [19.1]	0.98 [24.9]	2.17 [55.1]	0.59 [15.0]	M12x1	0.14 [3.6]
T15Y0005	5/16	0.83 [21.1]	1.06 [26.9]	2.58 [65.5]	0.71 [18.0]	M14x1.5	0.14 [3.6]
T15Y0006	3/8	1.04 [26.4]	1.34 [34.0]	3.02 [76.7]	0.94 [23.9]	M20x1.5	0.17 [4.3]
T15Y0007	1/2	1.12 [28.4]	1.42 [36.1]	3.64 [92.5]	0.94 [23.9]	M20x1.5	0.17 [4.3]

* Available in collet system

** C measured in dm³/[s.bar] Cv measured in US gal/min

High flow performance

Suitable for panel/wall mounting and manifold

Adjustment can be locked

Captive regulator needle will not blow out when unscrewed

Adjusting knob position

Releasable grab ring technology combining plastic and brass components for a compact and superior fitting design

Red release sleeve indicating metric tube sizes

Grey release sleeve indicating inch tube sizes

Reliable and corrosion resistant

TECHNICAL DATA

Medium:

Filtered, compressed air,

Operation:

Uni-directional flow control

Mounting:

In-line. Panel mounted by hexagonal mounting nut.

Wall mounted by through-holes in regulator body.

Manifold by quick connection

Operating pressure:

1.5 to 145 psig (0.1 to 10 bar maximum)

Operating temperature:

0° to 175°F (-20° to +80°C)

Consult our Technical Service for use below 35°F (2°C)

Materials

1/8", 5/32", 1/4", 5/16", and 3/8" OD:

Body: plastic PBT

Seals: silicone free nitrile seal

External metal parts: nickel plated brass

Internal parts: brass

Spring: stainless steel

Grab ring: stainless steel

Knob and panel nut: plastic POM

3/16" and 1/2" OD:

Collet: nickel plated brass



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FIT-33

BLOCK FORM FLOW CONTROLS

T1000 series

Uni-directional – 1/8" to 1/2" NPT

Dimensions in Inches (mm)

Compact size/low weight/ in-line units

High flow performance

Suitable for panel and wall mounting

Adjustment can be locked

Captive regulator needle will not blow out when unscrewed

Adjusting knob position line

TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated or non-lubricated, inert gases

Operating pressure:

15 to 145 psig (1-10 bar)

5 to 145 psig (0.3 to 10 bar) -M5

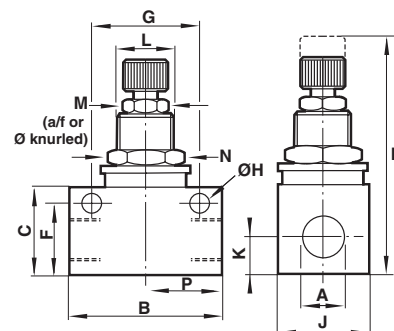
Operating temperature:

0° to 175°F* (-20° to 80°C)

*Consult our Technical Service for use below 35°F (2°C)

Materials

1/8, 1/4, 3/8, 1/2: Aluminum alloy body, Nitrile seals, brass needle and internal parts, external parts in aluminum alloy.

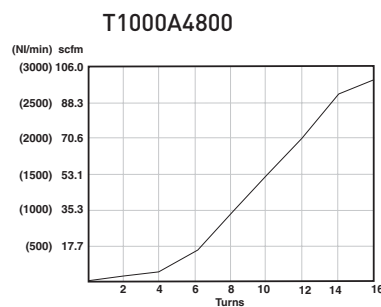
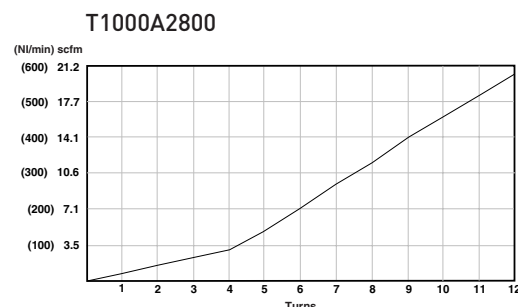
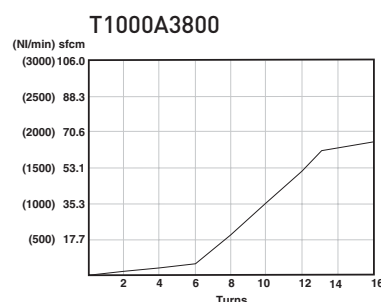
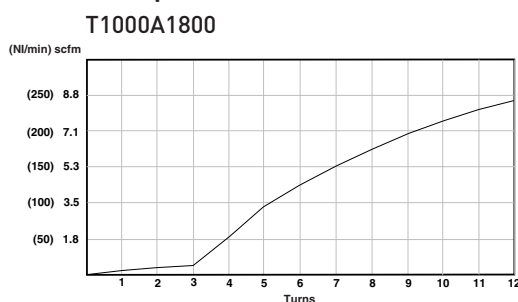


T1000

Part Number	Cv Regulating NPT port	Cv Free Flow NPT port	Weight grams oz. (g)
T1000A1800	0.14	0.37	1.1 (31)
T1000A2800	0.32	0.69	2.0 (56)
T1000A3800	1.00	1.45	5.3 (150)
T1000A4800	1.60	1.90	6.3(180)

Product Number	A	B	C	D	F	G	H	J	K	L	M A/F	N	P	Panel Hole	Max Panel Thickness
T1000A1800	1/8 NPT	1.33 (33.8)	0.79 (20.1)	2.0 (50.8)	0.65 (16.5)	0.94 (23.9)	0.18 (4.6)	0.63 (16.0)	0.38 (9.7)	M12 x 1	0.39 (9.9)	0.55 (14.0)	0.67 (17.0)	0.49 (12.4)	0.16 (4.1)
T1000A2800	1/4 NPT	1.77 (45.0)	1.0 (25.4)	2.42 (61.5)	0.82 (20.8)	1.26 (32.0)	0.18 (4.6)	0.75 (19.1)	0.38 (9.7)	M14 x 1	0.39 (9.9)	0.67 (17.0)	0.89 (22.6)	0.57 (14.5)	0.16 (4.1)
T1000A3800	3/8 NPT	2.28 (57.9)	1.28 (32.5)	3.09 (78.5)	1.06 (26.9)	1.69 (42.9)	0.26 (6.6)	1.10 (27.9)	0.51 (13.0)	M20 x 1	0.39 (9.9)	0.94 (23.9)	1.14 (29.0)	0.81 (20.6)	0.16 (4.1)
T1000A4800	1/2 NPT	2.56 (65.0)	1.42 (36.1)	3.23 (82.0)	1.20 (30.5)	1.97 (50.0)	0.26 (6.6)	1.18 (30.0)	0.29 (7.4)	M20 x 1	0.39 (9.9)	0.94 (23.9)	1.28 (32.5)	0.81 (20.6)	0.16 (4.1)

Flow vs Turns at 90 psi (6 bar)

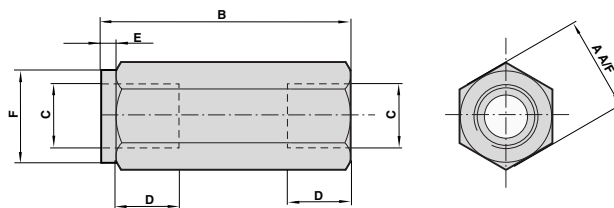


IN-LINE EXCESS FLOW SHUT-OFF VALVES

T60 air fuses

1/4 to 1-1/2" NPT

Dimensions in Inches (mm)



Assists in complying with safety regulations

Tamper proof

Compact and safe design

Low pressure drop

Automatically resets after failure correction

High corrosion resistance

High air pressure rating

TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated and non lubricated inert gases

Operating pressure:

Maximum 232 psi (16 bar)

Minimum according to hose length

Drop pressure at shut-off flow: 2 to 4.5 psi (0.14 or 0.3 bar)

Mounting:

In-line two way valve. To be inserted between fixed air supply and flexible hose air line. See guidelines for typical installation.

Operating temperature:

0°** to 175° F (-20° to 80°C)

**Consult our Technical Service for use below 35°F (2°C)

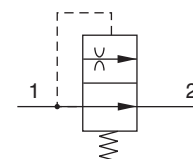
At low temperature ensure air fuse is not subjected to freezing conditions which may prevent its function.

Materials

Body: aluminum

Internal parts: brass

Spring: stainless steel



T60

Part Number	Port size NPT	Drop pressure at shut off flow (psi)	Shut off flow rate at 100 psi	Flow at 100 psi DP 1 psi (scfm)
T60A2890	1/4"	2.0	17.6	13.8
T60A2891	1/4"	4.4	29.7	13.8
T60A3890	3/8"	2.0	41.1	28.6
T60A3891	3/8"	4.4	68.2	28.6
T60A4890	1/2"	2.0	68.2	49.2
T60A4891	1/2"	4.4	102.3	49.2
T60A6890	3/4"	2.0	102.3	91.1
T60A6891	3/4"	4.4	169.5	91.1
T60A8890	1"	2.0	195.0	144
T60A8891	1"	4.4	271.0	144
T60AB890	1-1/2"	2.0	394.0	307
T60AB891	1-1/2"	4.4	568.0	307

Part Number	A	B	C	D	E	F
T60A289*	0.81 [20.6]	2.01 [51.1]	1/4	0.39 [9.9]	0.12 [3.0]	0.81 [20.6]
T60A389*	0.94 [23.9]	2.44 [62.0]	3/8	0.41 [10.4]	0.20 [5.1]	0.94 [23.9]
T60A489*	1.25 [31.8]	3.07 [78.0]	1/2	0.59 [15.0]	0.20 [5.1]	1.25 [31.8]
T60A689*	1.25 [31.8]	3.54 [89.9]	3/4	0.56 [14.2]	0.20 [5.1]	1.25 [31.8]
T60A889*	2.00 [50.8]	4.65 [118.1]	1.0 [25.4]	0.66 [16.8]	0.20 [5.1]	2.00 [50.8]
T60AB89*	2.50 [63.5]	5.71 [145.0]	1.5 [38.1]	0.68 [17.3]	0.20 [5.1]	2.50 [63.5]

NPT : according to ANSI-B1.20.1.

Flow and pressure test conducted according to ISO-6358 test circuit. Mean measured flow values are provided at standard reference conditions.

* "0" or "1"

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FIT-35

SHUTTLE VALVES

1/8" to 1/4" NPT

Dimensions in Inches (mm)

- Allows two independent signal sources to be connected to a common pilot line
- Can be used to perform an 'OR' logic function
- Selects the highest of two applied pressures
- Can be combined to operate from three or more sources
- Valves can be ganged together

TECHNICAL DATA

Fluid:

Compressed air, filtered, lubricated and non-lubricated, inert gases

Operation:

Shuttle valve

Mounting:

Through holes in valve body

Operating Pressure:

10 to 145 psi (0.7 - 10 bar)

Operating Temperature:

0° to 175°F (-20°* to +80°C)

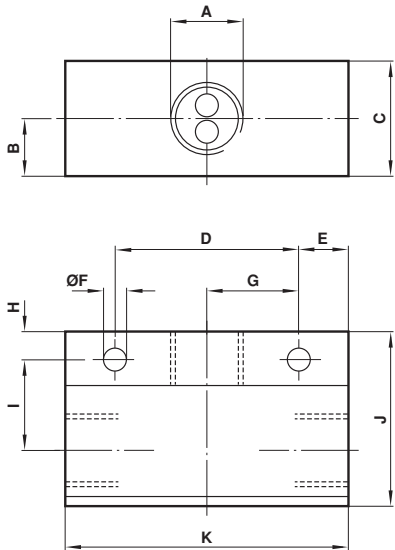
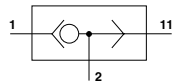
*Consult our Technical Service for use below 35°F (2°C)

Materials

Body: Zinc

Ball: Nitrile

Seat: Brass



Shuttle Valves

Product Number	Port size NPT	Flow Factor Cv
T65A1800	1/8"	0.42
T65A2800	1/4"	0.64

NPT according to ANSI B1.20.1

Model Number	A (NPT)	B	C	D	E	F	G	H	I	J	K
T65A1800	1/8	0.30 (7.6)	0.59 (15.0)	0.79 (20.1)	0.3 (7.6)	0.21 (5.3)	0.39 (9.9)	0.24 (6.1)	0.39 (9.9)	1.00 (25.4)	1.42 (36.1)
T65A2800	1/4	0.39 (9.9)	0.79 (20.1)	0.98 (24.9)	0.49 (12.4)	0.21 (5.3)	0.49 (12.4)	0.31 (7.9)	0.47 (11.9)	1.18 (30.0)	2.00 (50.8)



QUICK EXHAUST VALVES

T70 series

1/8" to 1/2"

Dimensions in Inches (mm)



Enables air to be exhausted quickly from air reservoirs and cylinders

Allows higher cylinder speeds to be achieved

Simple, compact design and construction

Very reliable in operation

TECHNICAL DATA

Medium:

Compressed air, filtered, lubricated and non-lubricated

Operating pressure:

7 to 145 psi (0.5 to 10 bar)

Operating temperature:

-4°F to 176°F (-20°C to +80°C).

Consult our Technical Service for use below 35°F (+2°C).

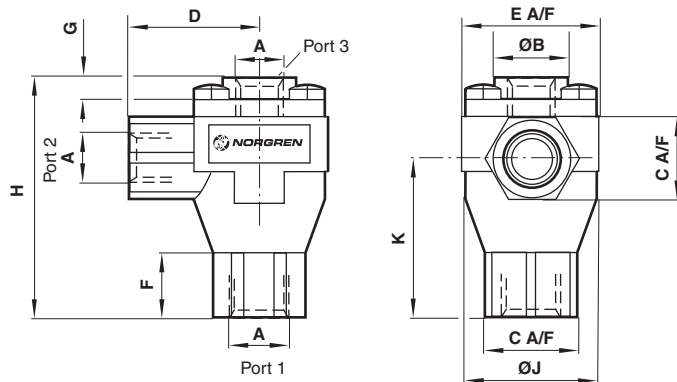
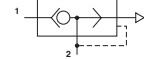
Materials

Body & cover: zinc alloy

aluminum alloy

Seals: nitrile

O-ring: nitrile



T70

Part Number	Inlet port NPT	Outlet port NPT	Exhaust port	Cv Flow Factor Direction 1 - 2*	Cv Flow Factor Direction 2 - 3	Volume	Fill	Exhaust
T70A1800	1/8"	1/8"	1/8"	0.9	1.8	150 cc	0.036	0.021
T70A2800	1/4"	1/4"	1/4"	1.9	2.5	150 cc	0.023	0.017
T70A3800	3/8"	3/8"	3/8"	3.8	5.5	1500 cc	0.110	0.080
T70A4800	1/2"	1/2"	1/2"	5.3	5.9	15,000 cc	0.460	0.480

Part Number	A	ØB	C A/F	D	E A/F	F	G	H	ØJ	K
T70A1800	1/8"	0.75 [19.1]	0.75 [19.1]	1.10 [27.9]	1.18 [30.0]	0.60 [15.2]	0.14 [3.6]	2.09 [53.1]	1.14 [29.0]	1.40 [35.6]
T70A2800	1/4"	0.75 [19.1]	0.75 [19.1]	1.10 [27.9]	1.18 [30.0]	0.60 [15.2]	0.14 [3.6]	2.09 [53.1]	1.14 [29.0]	1.40 [35.6]
T70A3800	3/8"	1.18 [30.0]	1.18 [30.0]	1.57 [39.9]	1.81 [46.0]	0.61 [15.5]	0.16 [4.1]	2.89 [73.4]	1.81 [46.0]	1.89 [48.0]
T70A4800	1/2"	1.18 [30.0]	1.18 [30.0]	1.57 [39.9]	1.81 [46.0]	0.61 [15.5]	0.16 [4.1]	2.89 [73.4]	1.81 [46.0]	1.89 [48.0]

* Flow factor measured at 87 psi (6 bar) (inlet) guideline direction

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FIT-37

TUBING AND ACCESSORIES

Nylon Inch Tube and Polyurethane Tube
Dimensions in Inches (mm)

NYLON INCH TUBE

Recommended for use with Pneufit Push-In Fittings

Manufactured from Nylon 11

UL-94HB flame retardant rating

Heat and light stabilized

Shipped in 100 ft. coils (30m) packed in polyethylene bags

TECHNICAL DATA

Fluids:

Compressed air, nitrogen and inert gases

Temperature Rating:

-60°F to 200°F (-5°C to 93°C)*

Vacuum Rating:

To 28" Hg (711 mm Hg)

Diameter Tolerances:

+ 0.002"; -0.004"

Hardness:

78 Rockwell R

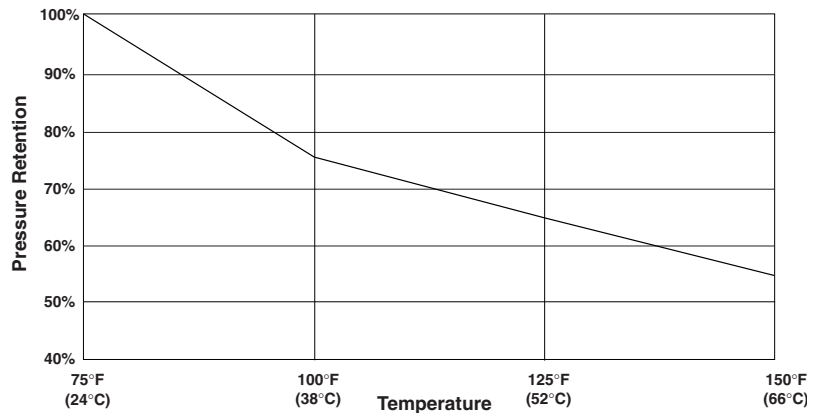
Material

Nylon 11

Nylon Inch Tube

Part Number and Color			Tubing				Maximum Working Pressure		Minimum Bend Radius	
Natural	Black	Red	OD (inch)	ID (inch)	OD (mm)	ID (mm)	-40°F to 70°F psig	(-40°C to 20°C) bar	inch	mm
PB 0051 100	PB 0751 100	PB 0151 100	1/8	0.093			225	15.5	0.38	10
PB 0052 100	PB 0752 100	PB 0152 100	5/32	0.106	4	2.3	275	19.0	0.50	13
PB 0054 100	PB 0754 100	PB 0154 100	1/4	0.180			250	17.2	0.88	22
PB 0056 100	PB 0756 100	PB 0156 100	3/8	0.275			220	15.2	1.50	38
PB 0057 100	PB 0757 100	PB 0157 100	1/2	0.375			200	13.8	2.00	51

Working Pressure at Elevated Temperature



POLYURETHANE TUBE

Recommended for use with Pneufit Push-In Fittings

Manufactured from Polyurethane

Shipped 100' coils packed in Polyethylene bags

TECHNICAL DATA

Fluid:

Compressed air

Temperature Rating:

-40°F to 165°F (-40°C to 73°C)

Vacuum Rating:

To 28" Hg (711 mm Hg)

Diameter Tolerances:

± 0.005"

Material

95 Durometer Polyurethane



Polyurethane Tube

Part Number and Color			Tubing		Maximum Working Pressure at 75°F		Minimum Bend Radius
Natural	Black	Trans Red	OD (in.)	ID (in.)	psig	bar	
PW 0051 100	PW 0751 100	PW 0151 100	1/8"	.066	233	16.1	1/4"
PW 0052 100	PW 0752 100	PW 0152 100	5/32"	.094	176	12.1	3/8"
PW 0054 100	PW 0754 100	PW 0154 100	1/4"	.160	148	10.2	1/2"
PW 0056 100	PW 0756 100	PW 0156 100	3/8"	.245	147	10.1	7/8"



TUBING AND ACCESSORIES

Polyethylene Tubing, Tube Cutter, and Tube Mount - 2 Channel

Dimensions in Inches (mm)



POLYETHYLENE TUBING (LDPE)

Manufactured from FDA approved acetal material, and are certified by NSF (51 & 61), WRAS and SK-Zert for use with water and food.

Suitable for use in medical and analytical equipment including fluid and precision gas control.

Appropriate for inert gas and industrial air applications.

TECHNICAL DATA

Medium:

Air and liquid

TUBE CUTTER

Makes clean, square cuts in Nylon tubing that are necessary for leak free connections.

Small size (3" long, 1" wide, 1" high) makes it easy to use and convenient to carry.

Spring actuation keeps it closed when not in use.

TUBE MOUNT - 2 CHANNEL

Save installation time - tube mounts provide quick, secure mounting and exact spacing between tubes.

Tubing snaps into channels for clean, organized circuits.

Tube mounts are drilled for machine screw mounting.

LDPE Tubing

Part Number and Color				
Natural	Black	Red	OD/ID	Length
PE0051100	PE0751100	PE0151100	1/8 x 0.062	100'
PE0052100	PE0752100	PE0152100	5/32 x 0.106	100'
PE0054100	PE0754100	PE0154100	1/4 x 0.170	100'
PE0056100	PE0756100	PE0156100	3/8 x 1/4	100'
PE0057100	PE0757100	PE0157100	1/2 x 3/8	100'



Tube Cutter

Part Numbers		
Black	Red	Replacement blades (5 pack)
M/3315	M/3314	M/32009



Tube Mount - 2 Channel

Part Number	Tube Size	Mounting Screw Size	Color
94 910 006	1/4"	#4	Black
94 910 010	3/8"	#6	Black
94 910 012	1/2"	#6	Black



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FIT-39

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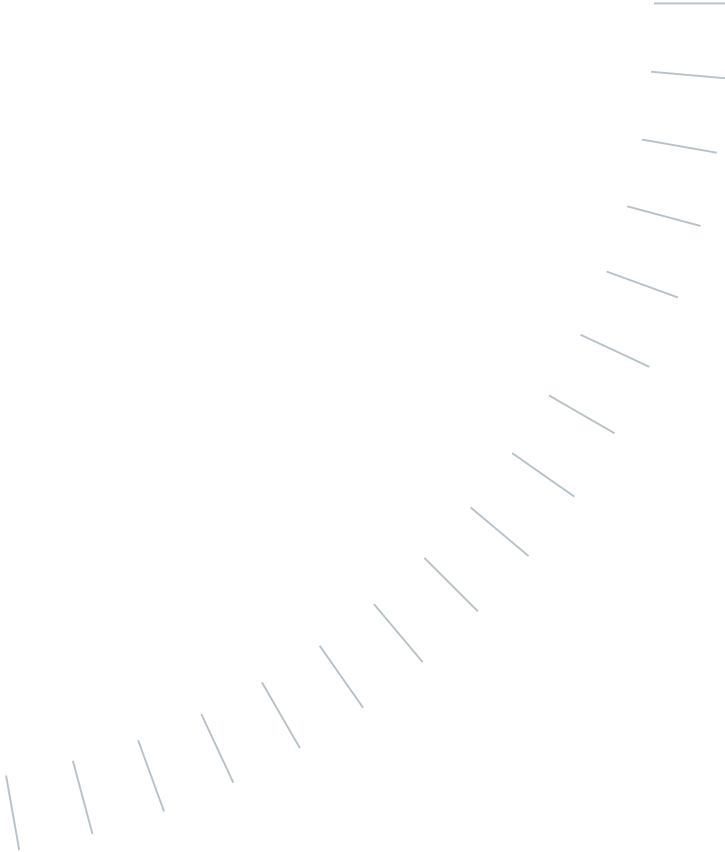
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