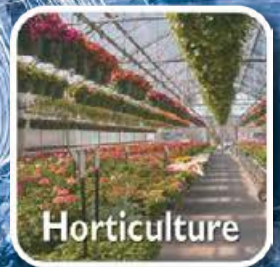


HANSENtm



Best Installed Value

Easy Fit Fittings

www.hansenproducts.com



An Inventive Start

It was the 1950's and Kiwi's Bert and Dawn Hansen were building their house. Bert couldn't find a reliable toilet valve, being an entrepreneur he invented one. This then lead Bert into developing a range of high performance Brass Foot and Check Valves. The design was patented and fast became the bench mark for industry standards and today the original design Bert created is used in a multitude of valves in hundreds of markets all around the world.

With the initial success of the Brass Foot and Check Valves, Bert and Dawn worked many long hours to keep up with supply. Their garage was the hub of their business with all the machining, assembling and packaging carried out there. In those early days Dawn remembers having to pack up the car and take all the fittings down to the railway station for distribution.



An Original Hansen Advertisement 1979

In the 1960's the range was expanded further with Bert designing and manufacturing a range of Brass Quick Couplings. However by the early 70's Bert and Dawn realised that plastic was the way of the future and re-developed the existing range of Brass Quick Couplings and Brass Foot and Check Valves in plastic. By the end of the 70's Bert and Dawn saw an opportunity to add to their range and designed and manufactured a range of Nylon easy to use "Cold Fit Pipe Fittings". Back then this completely changed the way Kiwi Farmers joined Alkathene pipe, "We had a few teething

problems with the original cold fit range, mainly around the single Barb being difficult to get past the hard pipe when it was cold and a 130kg farmer trying to tighten up a 25mm fitting with a 24" stillson on a -5 degree Southland winters day. Those were some fun learning times but we got those problems sorted, we should have labelled the fittings "Kiwi Proof".

In the mid 1980's some more enthusiasm and ideas were injected into the business when Carl Hansen (Bert and Dawn's Son) arrived from completing his engineering trades. Within a short period of time, Carl's experience in engineering and his desire to use the "right" technologies in manufacturing and materials added even more strength to the Hansen company. Bert and the team didn't

sit still for long and in the late 1980's it was decided Hansen would design and manufacture a range of True Fit Threaded Fittings.

With the Hansen range of products growing rapidly, it was time to move out of the garage and into its own manufacturing plant to start injection moulding their products. This move was a huge investment and there were many sleepless nights in the Hansen households. The move proved to be the right decision and it wasn't long before Hansen products were being demanded from all over the world. The 1990's saw the products develop a stronger following in New Zealand and Australia, with many of the original products having upgrades to high performance materials and the core ranges growing every year. "At one point it felt like we were adding fitting configurations every month" recalls Carl Hansen. In 1999 it was time for Hansen Products to move into even bigger premises. A building in Union East Street, Whangarei was found and the building underwent huge changes to house the manufacturing plant.

The turn of the millennium saw Hansen Products continue on the path of constant improvement; a sister company in Canada was established, Irripod was purchased, the Easy Fit range was updated and after much encouragement from the market our Full Flow Ball Valve was released.

2012 saw Hansen Products in-house Research and Design team develop several new products for release, the Level Alert Heavy Duty Tank Level Indicator, the Leveller Tank/Reservoir Valve, Superflo Piston Valve and the Maxflo Diaphragm Valve. At Hansen we believe the Superflo and Maxflo valves have become the next industry standard of High Performance Float Valves.

2013 Hansen released the Easy Fit Compression Fittings range designed specifically for joining Medium Density polyethylene pipe. In 2014 Hansen released the compact Fastflo Trough Valve & the ingenious Han-Tool used to determine which Easy Fit Poly or Compression fitting will fit your pipe.

2015 and Hansen Products is far from slowing down with the release of a number of new products.

All of these products have been designed for high performance whilst still staying true to Bert's original philosophy of "Keep it Simple".

After 60 years in business, Hansen Products is extremely proud to be a New Zealand owned and operated business. We are continuing to design, manufacture and distribute Pipe Fittings and Valves of the highest quality around the world. Hansen has built a reputation for providing high performance, easy to use, simple products that deliver our customers "Best Installed Value". The winning formula that has been applied to the product range since the 1950's has ensured a loyal customer following through the generations. With a range of over 1000 different products, loyal customers and a dedicated team, Hansen is poised for the new challenges ahead.

The Hansen Team



Bert's Original Toilet Valve 1952

Hansen Instore Display Unit 2009



Hansen Easy Fit Pipe Fitting 2009

New Zealand Contact Details

KEY CONTACTS

GENERAL MANAGER NEW ZEALAND

Tim Aitchison

Email: tim@hansenproducts.co.nz

Mobile: +64 21 897 997

REGIONAL MARKET MANAGER [1]

Northern North Island:

Northland, North Harbour, Auckland,
Thames/Coromandel

Casey Church

Email: casey@hansenproducts.co.nz

Mobile: +64 21 963 129

REGIONAL MARKET MANAGER [2]

Upper Central North Island:

Auckland, Waikato, BOP

Solly Larritt

Email: solly@hansenproducts.co.nz

Mobile: +64 21 960 451

REGIONAL MARKET MANAGER [3]

Central North Island:

Hawkes Bay, Poverty Bay, King Country,
Manawatu, BOP, Taupo

Lauren Cordery

Email: lauren@hansenproducts.co.nz

Mobile: +64 21 963 128

REGIONAL MARKET MANAGER [4]

Lower North Island:

Wellington, Manawatu, Wanganui, Taranaki,
Wairapa

Samantha Shailer

Email: samantha@hansenproducts.co.nz

Mobile: +64 21 963 126

REGIONAL MARKET MANAGER [5]

Lower South Island:

Ben Larritt

Email: ben@hansenproducts.co.nz

Mobile: +64 21 963 124

REGIONAL MARKET MANAGER [6]

Upper South Island:

Stephanie Calder

Email: stephanie@hansenproducts.co.nz

Mobile: +64 21 963 197

SOUTH ISLAND MARKET MANAGER [7]

All Customers:

Angela Moloney

Email: angela@hansenproducts.co.nz

Mobile: +64 21 963 127

NEW ZEALAND IRRIPOD MARKET MANAGER

Barry Wallace

Email: barry.wallace@irripod.com

Mobile: +64 21 963 125

Export Contact Details

HANSEN PRODUCTS & IRRIPOD

Email: info@hansenproducts.com

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How to read and understand the Hansen Product Code

Poly Fittings

Easy Fit BSPT x Poly Pipe **H R M S 15 20**

H Stands for Hansen

Following letter stands for Product Type
 ie **R** = Reducing

Next letter stands for BSPT Thread Type
 ie **M** = Male **F** = Female

Next letter stands for Product Type
 ie **S** = Straight

First number stands for Thread Size ie **15mm**

Second number stands for Poly Pipe Size ie **20mm**

Reducing Male Coupling
 HRMS1520



Easy Fit Poly x Poly x Poly Pipe **H RT 25 15**

H Stands for Hansen

Following letters stand for Product Type
 ie **R** = Reducing **T** = Tee

First number stands for Poly Pipe Size ie **25mm**

Second number stands for Branch Poly Pipe Size ie **15mm**

Reducing Tee Connector
 HRT2515



Compression Fittings

Easy Fit Poly x Poly x BSPT **H MD RT 25 20**

H Stands for Hansen

Following letter stands for Medium Density
 ie **MD**

Next letter stands for Product Name
 ie **RT** = Reducing Tee

First number stands for
 Through Hole Poly Pipe Size ie **25mm**

Second number stands for Branch Thread Size
 ie **20mm**

Medium Density Reducing Tee
 HMDRT2520



Easy Fit Poly x Poly Pipe **H MD C 20**

H Stands for Hansen

Following letters stands for Medium Density
 ie **MD**

Next letter stands for Product Name
 ie **C** = Coupling

Number stands for Pipe Size
 ie **20mm**

Medium Density Coupling
 HMDC20



True Fit Threaded Fittings H RHN 08 06

H Stands for Hansen
Following letters stands for Product Name
ie **RHN** = Reducing Hex Nipple
First number stands for Largest Thread Size
ie **8mm**
Second number stands for the
Smaller Thread Size ie **6mm**

Reducing Hex Nipple
HRHN0806



Tank Fittings H TFFT B 15

H Stands for Hansen
Following letters stands for Product Name
ie **TFFT** = Tank Fitting Female Thread
Last letter stands for the colour
ie **B** = Black **W** = White
Number stands for the Thread Size
ie **15mm**

Female Tank Fitting Black BSPT
HTFFT B15



HiFlo Valves H BV 32

H Stands for Hansen
Following letters stands for Product Name
ie **BV** = Ball Valve
Number stands for Thread Size
ie **32mm**

Full Flow Ball Valves
HBV32



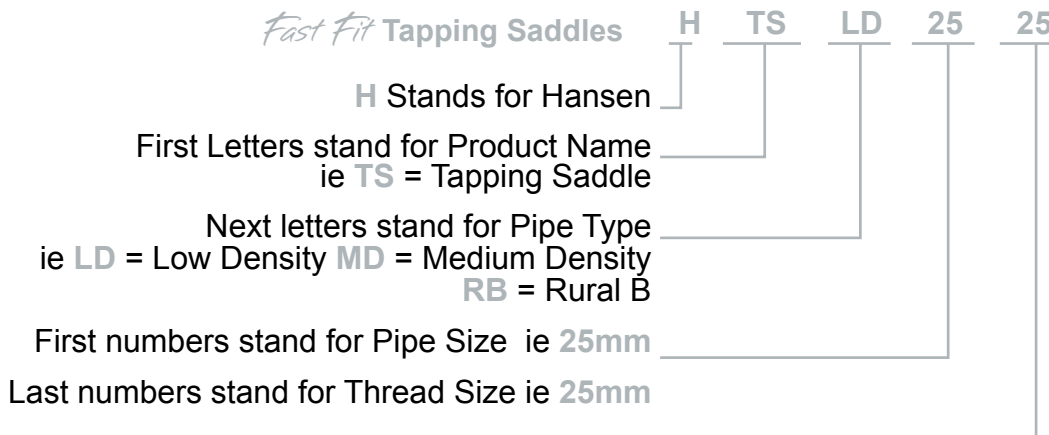
Quick Connect Unions KU 20 M 20P

KU Stands for Knuckle Unions
First Numbers stand for Thread Size
ie **20mm**
Next letter stands for Thread Type
ie **M** = Male **F** = Female
Last number stands for opposite end of fitting
ie **20P** = 20mm Poly Pipe

Knuckle Union
Assembled Units
KU20M20P



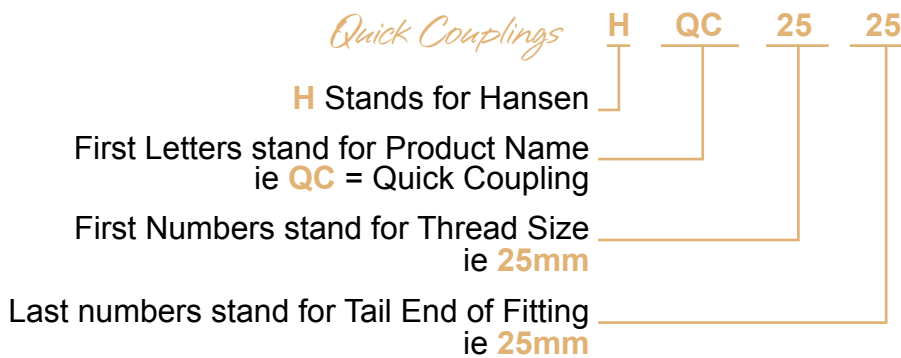
Fast Fit Tapping Saddles



Tapping Saddle
 HTSLD2525



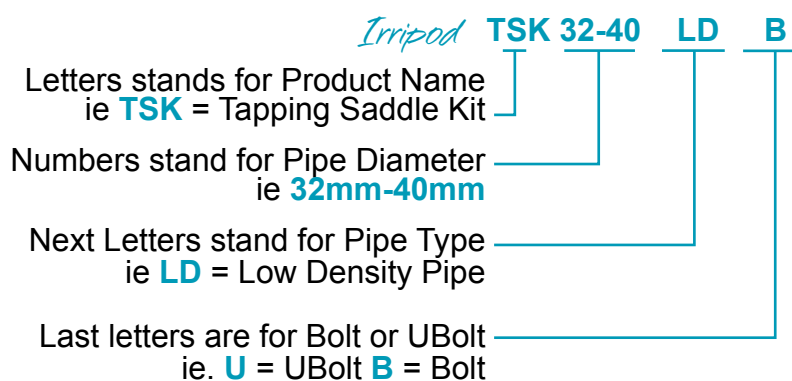
Quick Couplings



Quick Release Coupling
 BSPT x Hose
 HQC2525



Irripod



TSK32-40LDU to suit 32-40mm LD
 Pipe with 4xUBolts



Hansen Product Code Definitions

Easy Fit Poly Fittings

HS	Hansen Straight
HLS	Hansen Long Straight
HRS	Hansen Reducing Straight
HMS	Hansen Male Straight
HFS	Hansen Female Straight
HRMS	Hansen Reducing Male Straight
HCEP	Hansen Male Camlock
PODTE	Hansen Pod Tow Eye
HT	Hansen Tee Connector
HRT	Hansen Reducing Tee Connector
HMT	Hansen Male Threaded Tee
HFT	Hansen Female Threaded Tee
HB	Hansen Bend
HMBS	Hansen Male Bend Short
HMB	Hansen Male Bend Long
HFB	Hansen Female Bend
HRMB	Hansen Reducing Male Bend Long
HRFB	Hansen Reducing Female Bend
HBE	Hansen Bracket Elbow
HRBE	Hansen Reducing Bracket Elbow
HPN	Hansen Poly Nut

Easy Fit Compression Fittings

HMDRT	Hansen Medium Density Reducing Tee Connector
HMDT	Hansen Medium Density Tee
HMDC	Hansen Medium Density Straight Coupling
HMDFT	Hansen Medium Density Female Threaded Tee Connector
HMDRSC	Hansen Medium Density Repair Slip Coupling
HMDMT	Hansen Medium Density Male Threaded Tee Connector
HMDRC	Hansen Medium Density Reducing Straight Coupling
HMDMC	Hansen Medium Density Male Straight Coupling
HMDFC	Hansen Medium Density Female Straight Coupling
HMDME	Hansen Medium Density Male Elbow
HMDFE	Hansen Medium Density Female Elbow
HMDE	Hansen Medium Density Elbow
HMDEC	Hansen Medium Density End Cap
HMDN	Hansen Medium Density Nut
HMDTR	Hansen Medium Density Thrust Ring
HMDGR	Hansen Medium Density Grip Ring
HMDORING	Hansen Medium Density O'Ring

True Fit Threaded Fittings

HSN	Hansen Hex Nipple
HRHN	Hansen Reducing Hex Nipple
HSS	Hansen Hex Socket
HSRS	Hansen Reducing Hex Socket
HRB	Hansen Reducing Bush
HTT	Hansen Female Threaded Tee
HTE	Hansen Female Threaded Elbow
HTMFE	Hansen Threaded Male/Female Elbow
HCP	Hansen Screw Cap
HSP	Hansen Screw Plug
HTP	Hansen Tank Plug
PODTE	Hansen Pod Tow Eye
HNTE	Hansen Nut & Tail Elbow
HNTE	Hansen Nut and Hose Tail
HMFA	Hansen Male/Female Adaptor
HHT	Hansen Male Hose Tail
HRHT	Hansen Reducing Male Hose Tail
HNTW	Hansen Nut and Tail Washer

Quick Connect Unions

KU M P	Knuckle Union Male Poly
KU M F	Knuckle Union Male Female
KU F P	Knuckle Union Female Poly
KU P P	Knuckle Union Poly Poly
KU S P	Knuckle Union Socket Poly
KU S M	Knuckle Union Socket Male
KU B P	Knuckle Union Ball Poly
KU B F	Knuckle Union Ball Female

HBU	Hansen Barrel Union
-----	---------------------

True Fit Tank Fittings

HTFFTB	Hansen Tank Fitting Threaded Black
HTFFTB RW	Hansen Tank Fitting Threaded Black Rubber Washer
HTFB	Hansen Male Tank Fitting Black
HTFW	Hansen Male Tank Fitting White
HBN	Hansen Back Nut Black
HBNW	Hansen Back Nut White
HBNL	Hansen Back Nut Large
HW	Hansen Male Tank Fitting Rubber Washer
HRWW	Hansen Male Tank Fitting Rubber Washer White
HMPWB	Hansen Male Tank Fitting Poly Black
PW	Hansen Male Tank Fitting Poly White
HWL	Hansen Large Female Tank Fitting Rubber Washer Black
HFPWB	Hansen Female Tank Fitting Poly Washer Black

Hi Flo Valves

HCV	Hansen Check Valve
HFV	Hansen Foot Valve
HBV	Hansen Ball Valve
HBVHB	Hansen Ball Valve Handle Blue
HBVHL	Hansen Ball Valve Handle Lilac
HBVHG	Hansen Ball Valve Handle Green
HFFPV	Hansen Fastflo Piston Valve
HSFPV	Hansen Superflo Piston Valve
HSFPVB	Hansen Superflo Piston Valve Brass
HMFVDV	Hansen Maxflo Diaphragm Valve
HLEVELLERS	Hansen Leveller Valve

Fast Fit Tapping Saddle

HTSLD	Hansen Tapping Saddle Low Density
HTSMD	Hansen Tapping Saddle Medium Density
HTSRB	Hansen Tapping Saddle Rural B

Quick Coupling

HQC	Hansen Quick Coupling
HQCT	Hansen Quick Coupling Tail
HQCB	Hansen Quick Coupling Socket
HQCR	Hansen Quick Coupling Rubber Seal

Irripod

Irripod - BL	Irripod Black Pod Base
TSK LDB	Tapping Saddle Kit, Pipe Size, Bolts
TSK LDU	Tapping Saddle Kit, Pipe Size, UBolts
TST LDL F	Tapping Saddle Top, Low Density Low Female
CTA LD	Cross Tee Anchor, Low Density

Easy Fit Poly Fittings



Best Installed Value

SECTION ONE

Features and Benefits

- Trusted by Kiwi Farmers for over 40 years
- Suitable for use above or below ground in varying operating pressures and temperatures
- Strong, Lightweight and Compact
- Available in a variety of thread combinations and connections
- New Zealand Made
- Simple to use one piece fitting - no components to lose, rust or corrode
- Fast and easy to assemble – push the pipe onto the fitting and wind on the nut
- No O-Ring, No Crimping, No Solvent Cement
- Nut and Barbs provide superior double strength grip – when fitted correctly the fitting will not leak or blow off the pipe
- Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance
- Material Approved for use with Potable (drinkable) Water
- Fittings demonstrate excellent hydraulic flow characteristics

Conversions

15mm - 1/2"	32mm - 1 1/4"
20mm - 3/4"	40mm - 1 1/2"
25mm - 1"	50mm - 2"
45mm - Special Application	

Conversion Chart

16 Bar – 1600 kPa – 235 psi

20° Celcius – 68° Fahrenheit



In the late 1970's Bert Hansen developed a range of polythene (alkathene) easy to use "cold fit pipe fittings". Back then this changed the way Kiwi farmers joined pipes together. Today Hansen Products continues to develop & manufacture a range of poly fittings based on that original 70's design.

Hansen *Easy Fit* Poly Fittings are suitable for use above or below ground, in varying operating pressures and temperatures. They are Strong, Lightweight and Compact and are available in a variety of thread combinations and connections.

With over 50 years experience in manufacturing, Hansen Products knows the importance that pipe fittings play in the performance and control of fluid delivery, flow and pressure within a pipe system. This has seen Hansen Products build a reputation for providing high performance, easy to use, innovative, simple products that provide our customers with "Best Installed Value". All Hansen products carry our Lifetime Warranty*

*For more information on our warranty please visit www.hansenproducts.com/legal.htm

Hansen *Easy Fit* Poly Fittings are designed for all sizes of New Zealand Low Density Polythene Pipe LDPE, EnduroFlex, Australian Rural (Class B) and Irish Imperial Pipe. Hansen *Easy Fit* Poly Fittings are also suitable for other types of flexible pipe and hose i.e. thin wall irrigation tubing and rubber hoses. 45mm fittings are designed for special applications.

Standards & Approvals

AS/NZS 4020 HANSEN™ *Easy Fit* Poly Fittings from 15mm to 50mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

Fire Rating UL94HB

See our website for further details.

Easy Fit Poly Fittings

*Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex.
 Can also be used to connect flexible pipe and hose.*

Straight Coupling Poly x Poly



Code	Metric	Imperial
HS15	15mm x 15mm	1/2" x 1/2"
HS20	20mm x 20mm	3/4" x 3/4"
HS25	25mm x 25mm	1" x 1"
HS32	32mm x 32mm	1 1/4" x 1 1/4"
HS40	40mm x 40mm	1 1/2" x 1 1/2"
HS45	45mm x 45mm	1 3/4" x 1 3/4"
HS50	50mm x 50mm	2" x 2"

Long Straight Coupling Poly x Poly



HLS15	15mm x 15mm	1/2" x 1/2"
HLS20	20mm x 20mm	3/4" x 3/4"
HLS25	25mm x 25mm	1" x 1"

Reducing Straight Coupling Poly x Poly



HRS2015	20mm x 15mm	3/4" x 1/2"
HRS2515	25mm x 15mm	1" x 1/2"
HRS2520	25mm x 20mm	1" x 3/4"
HRS3220	32mm x 20mm	1 1/4" x 3/4"
HRS3225	32mm x 25mm	1 1/4" x 1"
HRS4032	40mm x 32mm	1 1/2" x 1 1/4"
HRS4540	45mm x 40mm	1 3/4" x 1 1/2"
HRS5040	50mm x 40mm	2" x 1 1/2"

*Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to
 Female Threads. Can also be used to connect flexible pipe and hose.*

Male Straight Coupling BSPT x Poly



Code	Metric	Imperial
HMS15	15mm x 15mm	1/2" x 1/2"
HMS20	20mm x 20mm	3/4" x 3/4"
HMS25	25mm x 25mm	1" x 1"
HMS32	32mm x 32mm	1 1/4" x 1 1/4"
HMS40	40mm x 40mm	1 1/2" x 1 1/2"
HMS45	50mm x 45mm	2" x 1 3/4"
HMS50	50mm x 45mm	2" x 1 3/4"

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to Male Threads. Can also be used to connect flexible pipe and hose.

Female Straight Coupling
BSPT x Poly



Code	Metric	Imperial
HFS15	15mm x 15mm	1/2" x 1/2"
HFS20	20mm x 20mm	3/4" x 3/4"
HFS25	25mm x 25mm	1" x 1"
HFS32	32mm x 32mm	1 1/4" x 1 1/4"
HFS40	40mm x 40mm	1 1/2" x 1 1/2"
HFS40NPT	40mm x 40mm NPT	1 1/2" x 1 1/2" NPT
HFS50	50mm x 50mm	2" x 2"

NPT Products are a non stock item, available on request

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to Female Threads. Can also be used to connect flexible pipe and hose.

Reducing Male Straight Coupling
BSPT x Poly



Code	Metric	Imperial
HRMS1520	15mm x 20mm	1/2" x 3/4"
HRMS2015	20mm x 15mm	3/4" x 1/2"
HRMS2025	20mm x 25mm	3/4" x 1"
HRMS2515	25mm x 15mm	1" x 1/2"
HRMS2520	25mm x 20mm	1" x 3/4"

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to Male Threads. Can also be used to connect flexible pipe and hose.

Reducing Female Straight Coupling
BSPT x Poly



Code	Metric	Imperial
HRFS2015	20mm x 15mm	3/4" x 1/2"
HRFS2520	25mm x 20mm	1" x 3/4"
HRFS3225	32mm x 25mm	1 1/4" x 1"
HRFS4032	40mm x 32mm	1 1/2" x 1 1/4"
HRFS5040	50mm x 40mm	2" x 1 1/2"

Fits Aluminium & Polypropylene Camlocks. The Hansen 45mm Camlock fits the Irripod 45mm Pipe System.



Male Camlock
 Male Camlock x Poly

Code	Metric	Imperial
HCEP32	32mm	1 1/4"
HCEP40	40mm	1 1/2"
HCEP45	45mm	1 3/4"

Used in Irripod Irrigation to attach the Tow Rope and Ball to the end of the pipe line.



Tow Eye
 Poly x Tow Eye
 LDPE Pipe

Code	Metric	Imperial
PODTE32	32mm	1 1/4"
PODTE40	40mm	1 1/2"
PODTE45	45mm	1 3/4"

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex. Can also be used to connect flexible pipe and hose.



Tee Connector
 Poly x Poly

Code	Metric	Imperial
HT15	15mm x 15mm x 15mm	1/2" x 1/2" x 1/2"
HT20	20mm x 20mm x 20mm	3/4" x 3/4" x 3/4"
HT25	25mm x 25mm x 25mm	1" x 1" x 1"
HT32	32mm x 32mm x 32mm	1 1/4" x 1 1/4" x 1 1/4"
HT40	40mm x 40mm x 40mm	1 1/2" x 1 1/2" x 1 1/2"
HT50	50mm x 50mm x 50mm	2" x 2" x 2"

*Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex.
Can also be used to connect flexible pipe and hose.*

Reducing Tee Connector
Poly x Poly x Poly



Code	Metric	Imperial
HRT1520	15mm x 15mm x 20mm	1/2" x 1/2" x 3/4"
HRT2015	20mm x 20mm x 15mm	3/4" x 3/4" x 1/2"
HRT2025	20mm x 20mm x 25mm	3/4" x 3/4" x 1"
HRT2515	25mm x 25mm x 15mm	1" x 1" x 1/2"
HRT2520	25mm x 25mm x 20mm	1" x 1" x 3/4"
HRT3220	32mm x 32mm x 20mm	1 1/4" x 1 1/4" x 3/4"
HRT3225	32mm x 32mm x 25mm	1 1/4" x 1 1/4" x 1"
HRT4025	40mm x 40mm x 25mm	1 1/2" x 1 1/2" x 1"
HRT4032	40mm x 40mm x 32mm	1 1/2" x 1 1/2" x 1 1/4"
HRT5032	50mm x 50mm x 32mm	2" x 2" x 1 1/4"
HRT5040	50mm x 50mm x 40mm	2" x 2" x 1 1/2"

*Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to
Female Threads. Can also be used to connect flexible pipe and hose.*

Male Threaded Tee Connector
Poly x Poly x BSPT



Code	Metric	Imperial
HMT1520	15mm x 15mm x 20mm	1/2" x 1/2" x 3/4"
HMT2020	20mm x 20mm x 20mm	3/4" x 3/4" x 3/4"

*Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to
Male Threads. Can also be used to connect flexible pipe and hose.*

Female Threaded Tee Connector
BSPT x Poly x Poly



Code	Metric	Imperial
HFT15	15mm x 15mm x 15mm	1/2" x 1/2" x 1/2"
HFT20	20mm x 20mm x 20mm	3/4" x 3/4" x 3/4"
HFT25	25mm x 25mm x 25mm	1" x 1" x 1"
HFT32	32mm x 32mm x 32mm	1 1/4" x 1 1/4" x 1 1/4"
HFT40	40mm x 40mm x 40mm	1 1/2" x 1 1/2" x 1 1/2"
HFT50	50mm x 50mm x 50mm	2" x 2" x 2"

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex. Can also be used to connect flexible pipe and hose.



Bend
Poly x Poly

Code	Metric	Imperial
HB15	15mm x 15mm	1/2" x 1/2"
HB20	20mm x 20mm	3/4" x 3/4"
HB25	25mm x 25mm	1" x 1"
HB32	32mm x 32mm	1 1/4" x 1 1/4"
HB40	40mm x 40mm	1 1/2" x 1 1/2"
HB50	50mm x 50mm	2" x 2"

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to Female Threads. Can also be used to connect flexible pipe and hose.



Male Bend Short
BSPT x Poly

Code	Metric	Imperial
HMBS15	15mm x 15mm	1/2" x 1/2"
HMBS20	20mm x 20mm	3/4" x 3/4"
HMBS25	25mm x 25mm	1" x 1"
HMBS32	32mm x 32mm	1 1/4" x 1 1/4"
HMBS40	40mm x 40mm	1 1/2" x 1 1/2"
HMBS50	50mm x 50mm	2" x 2"



Male Bend Long
BSPT x Poly

Code	Metric	Imperial
HMB15	15mm x 15mm	1/2" x 1/2"
HMB20	20mm x 20mm	3/4" x 3/4"
HMB25	25mm x 25mm	1" x 1"

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to Male Threads. Can also be used to connect flexible pipe and hose.



Female Bend
BSPT x Poly

Code	Metric	Imperial
HFB15	15mm x 15mm	1/2" x 1/2"
HFB20	20mm x 20mm	3/4" x 3/4"
HFB25	25mm x 25mm	1" x 1"
HFB32	32mm x 32mm	1 1/4" x 1 1/4"
HFB40	40mm x 40mm	1 1/2" x 1 1/2"
HFB50	50mm x 50mm	2" x 2"

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to Female Threads. Can also be used to connect flexible pipe and hose.

Reducing Male Bend Long
BSPT x Poly



Code	Metric	Imperial
HRMB1520	15mm x 20mm	1/2" x 3/4"
HRMB2015	20mm x 15mm	3/4" x 1/2"
HRMB2025	20mm x 25mm	3/4" x 1"
HRMB2520	25mm x 20mm	1" x 3/4"

Used for connecting Low Density Polythene Pipe (LDPE) and Enduroflex to Male Threads. Can also be used to connect flexible pipe and hose.

Reducing Female Bend
BSPT x Poly



Code	Metric	Imperial
HRFB1520	15mm x 20mm	1/2" x 3/4"
HRFB2015	20mm x 15mm	3/4" x 1/2"
HRFB2520	25mm x 20mm	1" x 3/4"
HRFB3225	32mm x 25mm	1 1/4" x 1"
HRFB4032	40mm x 32mm	1 1/2" x 1 1/4"
HRFB5040	50mm x 40mm	2" x 1 1/2"

Used for connecting taps to Low Density Polythene Pipe (LDPE) and EnduroFlex. Can also be used to connect taps to flexible pipe and hose.

Bracket Elbow
BSPT x Poly




Code	Metric	Imperial
HBE15	15mm x 15mm	1/2" x 1/2"
HBE20	20mm x 20mm	3/4" x 3/4"

Reducing Bracket Elbow
BSPT x Poly



HRBE1520	15mm x 20mm	1/2" x 3/4"
HRBE2015	20mm x 15mm	3/4" x 1/2"

Replacement Nuts for the Easy Fit Poly Fittings range

	Code	Metric	Imperial
 Poly Nut	HPN15*	15mm	1/2"
	HPN20*	20mm	3/4"
	HPN25*	25mm	1"
	HPN32*	32mm	1 1/4"
	HPN40*	40mm	1 1/2"
	HPN45*	45mm	1 3/4"
	HPN50*	50mm	2"

**Non stock item, available on request*

Lilac Nut HPNL45 45mm 1 3/4"



Hansen Easy Fit Straight Coupling HS50 in use

Easy Fit Compression Fittings

HANSEN[™]

Best Installed Value

SECTION ONE (a)

Features and Benefits

- Manufactured in New Zealand using Best Quality Materials to withstand the harshest weather conditions
- Largest Medium Density fitting range made in New Zealand
- One piece fitting captive components when fitting assembled correctly
- O-Ring is pre-lubricated for easy pipe insertion and reliable leak free connections
- Manufactured from UV Stabilised High Quality Virgin Polyethylene giving weather, termite, fungi and bacterial resistance
- High Pressure Rated
- Sleek, Compact Design for easy installation
- Easy Grip Nuts for rapid winding onto pipe
- Dependable High Quality Threaded Components
- Potable (Drinking) water approved
- WaterMark Certificate of Conformity – Level 1 Evaluated to: AS/NZS 4129:2008 - Fittings for Polyethylene (PE) pipes for pressure applications. Certification No: WMKA21978

Conversion Chart

12.5 Bar – 1250 kPa – 182 psi
16 Bar – 1600 kPa – 235 psi

20° Celsius - 68° Fahrenheit

Conversions

15mm - 1/2"	50mm - 2"
20mm - 3/4"	63mm - 2 1/2"
25mm - 1"	75mm - 3"
32mm - 1 1/4"	100mm - 4"
40mm - 1 1/2"	



In the late 1970's Bert Hansen developed a range of easy to use "cold fit pipe fittings" that revolutionised the way farmers joined Polyethylene pipe. Adding to the *Easy Fit* range of pipe fittings, Hansen introduces the new *Easy Fit* Compression fittings range.

The *Easy Fit* Compression fitting range has been designed specifically for joining Medium Density Polyethylene pipe together. Building on 50 years experience in the manufacturing of pipe fittings and valves, the sleek, precision, compact design uses only the very best materials to withstand the harshest weather conditions.

Hansen Products knows the importance that pipe fittings play in the performance and control of fluid delivery, flow and pressure within a pipe system. This has seen Hansen Products build a reputation for providing high performance, easy to use, innovative, simple products that provide our customers with "Best Installed Value". All Hansen products carry our **Lifetime Warranty***

*For more information on our warranty please visit www.hansenproducts.com/legal.htm

Hansen *Easy Fit* Compression Fittings are designed for Medium Density Polyethylene Pipe. Fitting sizes 20mm to 63mm are pressure rated to 16bar and sizes 75mm to 110mm to 12.5bar at 20° Celsius.

Standards & Approvals

WaterMark: Hansen *Easy Fit* Compression Fittings in sizes 20mm to 110mm have achieved the esteemed WaterMark Certification for use in plumbing & drainage installations. Certification No: WMKA21978

AS/NZS 4020 HANSEN[™]: *Easy Fit* Compression Fittings from 16mm to 110mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

Wellington Water: Hansen *Easy Fit* Compression Fittings are approved to be used in all municipal water supply construction and maintenance activities within the Lower Hutt and Upper Hutt Cities.

Easy Fit Compression Fittings

Used for connecting Medium Density Polyethylene Pipe (MDPE).

Straight Coupling Poly x Poly



Code

HMDC20
HMDC25
HMDC32
HMDC40
HMDC50
HMDC63
HMDC75
HMDC90
HMDC110

Metric

20mm x 20mm
25mm x 25mm
32mm x 32mm
40mm x 40mm
50mm x 50mm
63mm x 63mm
75mm x 75mm
90mm x 90mm
110mm x 110mm

Reducing Straight Coupling Poly x Poly



Code

HMDRC2520
HMDRC3220
HMDRC3225
HMDRC4025
HMDRC4032
HMDRC5032
HMDRC5040
HMDRC6332
HMDRC6340
HMDRC6350
HMDRC7563
HMDRC9063
HMDRC9075
HMDRC11075
HMDRC11090

Metric

25mm x 20mm
32mm x 20mm
32mm x 25mm
40mm x 25mm
40mm x 32mm
50mm x 32mm
50mm x 40mm
63mm x 32mm
63mm x 40mm
63mm x 50mm
75mm x 63mm
90mm x 63mm
90mm x 75mm
110mm x 75mm
110mm x 90mm

Used for repairing Medium Density Polyethylene Pipe. Fitting can be slipped along the length of damaged pipe as centre section of fitting body has been removed.

Repair Slip Coupling Poly x Poly



Code

HMDRSC20
HMDRSC25
HMDRSC32
HMDRSC40
HMDRSC50
HMDRSC63
HMDRSC75
HMDRSC90
HMDRSC110

Metric

20mm x 20mm
25mm x 25mm
32mm x 32mm
40mm x 40mm
50mm x 50mm
63mm x 63mm
75mm x 75mm
90mm x 90mm
110mm x 110mm

Used for connecting Medium Density Polyethylene Pipe (MDPE) to Female Threads.

Male Straight Coupling
Poly x BSPT



Code

Metric

HMDMC2015	20mm x 1/2"
HMDMC2020	20mm x 3/4"
HMDMC2520	25mm x 3/4"
HMDMC2525	25mm x 1"
HMDMC3215	32mm x 1/2"
HMDMC3220	32mm x 3/4"
HMDMC3225	32mm x 1"
HMDMC3232	32mm x 1 1/4"
HMDMC3240	32mm x 1 1/2"
HMDMC4025	40mm x 1"
HMDMC4032	40mm x 1 1/4"
HMDMC4040	40mm x 1 1/2"
HMDMC4050	40mm x 2"
HMDMC5032	50mm x 1 1/4"
HMDMC5040	50mm x 1 1/2"
HMDMC5050	50mm x 2"
HMDMC6332	63mm x 1 1/4"
HMDMC6340	63mm x 1 1/2"
HMDMC6350	63mm x 2"
HMDMC6363	63mm x 2 1/2"
HMDMC7550	75mm x 2"
HMDMC7563	75mm x 2 1/2"
HMDMC7575	75mm x 3"
HMDMC9050	90mm x 2"
HMDMC9063	90mm x 2 1/2"
HMDMC9075	90mm x 3"
HMDMC90100	90mm x 4"
HMDMC11050	110mm x 2"
HMDMC11075	110mm x 3"
HMDMC110100	110mm x 4"

Used for connecting Medium Density Polyethylene Pipe (MDPE) to Male Threads.

Female Straight Coupling
Poly x BSPT



Code	Metric
HMDFC2015	20mm x 1/2"
HMDFC2020	20mm x 3/4"
HMDFC2515	25mm x 1/2"
HMDFC2520	25mm x 3/4"
HMDFC2525	25mm x 1"
HMDFC3220	32mm x 3/4"
HMDFC3225	32mm x 1"
HMDFC3232	32mm x 1 1/4"
HMDFC4025	40mm x 1"
HMDFC4032	40mm x 1 1/4"
HMDFC4040	40mm x 1 1/2"
HMDFC5032	50mm x 1 1/4"
HMDFC5040	50mm x 1 1/2"
HMDFC5050	50mm x 2"
HMDFC6340	63mm x 1 1/2"
HMDFC6350	63mm x 2"
HMDFC6363	63mm x 2 1/2"
HMDFC7550	75mm x 2"
HMDFC7563	75mm x 2 1/2"
HMDFC7575	75mm x 3"
HMDFC9050	90mm x 2"
HMDFC9063	90mm x 2 1/2"
HMDFC9075	90mm x 3"
HMDFC90100	90mm x 4"
HMDFC11050	110mm x 2"
HMDFC11075	110mm x 3"
HMDFC110100	110mm x 4"

Used for connecting Medium Density Polyethylene Pipe (MDPE).

Tee
Poly x Poly x Poly



Code	Metric
HMDT20	20mm x 20mm x 20mm
HMDT25	25mm x 25mm x 25mm
HMDT32	32mm x 32mm x 32mm
HMDT40	40mm x 40mm x 40mm
HMDT50	50mm x 50mm x 50mm
HMDT63	63mm x 63mm x 63mm
HMDT75	75mm x 75mm x 75mm
HMDT90	90mm x 90mm x 90mm
HMDT110	110mm x 110mm x 110mm

Used for connecting Medium Density Polyethylene Pipe (MDPE).

Reducing Tee Connector

Poly x Poly x Poly



Code

HMDRT2520
HMDRT3220
HMDRT3225
HMDRT4032
HMDRT5032
HMDRT5040
HMDRT6350
HMDRT7563
HMDRT9075
HMDRT11063
HMDRT11090

Metric

25mm x 25mm x 20mm
32mm x 32mm x 20mm
32mm x 32mm x 25mm
40mm x 40mm x 32mm
50mm x 50mm x 32mm
50mm x 50mm x 40mm
63mm x 63mm x 50mm
75mm x 75mm x 63mm
90mm x 90mm x 75mm
110mm x 110mm x 63mm
110mm x 110mm x 90mm

Used for connecting Medium Density Polyethylene Pipe (MDPE) to Female Threads.

Male Threaded Tee Connector

Poly x Poly x BSPT



Code

HMDMT2015
HMDMT2020
HMDMT2515
HMDMT2520
HMDMT2525
HMDMT3220
HMDMT3225
HMDMT3232
HMDMT4025
HMDMT4032
HMDMT4040
HMDMT5040
HMDMT5050
HMDMT6340
HMDMT6350
HMDMT7563
HMDMT7575
HMDMT9075
HMDMT110100

Metric

20mm x 20mm x 1/2"
20mm x 20mm x 3/4"
25mm x 25mm x 1/2"
25mm x 25mm x 3/4"
25mm x 25mm x 1"
32mm x 32mm x 3/4"
32mm x 32mm x 1"
32mm x 32mm x 1 1/4"
40mm x 40mm x 1"
40mm x 40mm x 1 1/4"
40mm x 40mm x 1 1/2"
50mm x 50mm x 1 1/2"
50mm x 50mm x 2"
63mm x 63mm x 1 1/2"
63mm x 63mm x 2"
75mm x 75mm x 2 1/2"
75mm x 75mm x 3"
90mm x 90mm x 3"
110mm x 110mm x 4"

Used for connecting Medium Density Polyethylene Pipe (MDPE) to Male Threads.

Female Threaded Tee Connector
Poly x Poly x BSPT



Code	Metric
HMDFT2015	20mm x 20mm x 1/2"
HMDFT2020	20mm x 20mm x 3/4"
HMDFT2515	25mm x 25mm x 1/2"
HMDFT2520	25mm x 25mm x 3/4"
HMDFT2525	25mm x 25mm x 1"
HMDFT3215	32mm x 32mm x 1/2"
HMDFT3220	32mm x 32mm x 3/4"
HMDFT3225	32mm x 32mm x 1"
HMDFT3232	32mm x 32mm x 1 1/4"
HMDFT4025	40mm x 40mm x 1"
HMDFT4032	40mm x 40mm x 1 1/4"
HMDFT4040	40mm x 40mm x 1 1/2"
HMDFT5032	40mm x 50mm x 1 1/4"
HMDFT5040	50mm x 50mm x 1 1/2"
HMDFT5050	50mm x 50mm x 2"
HMDFT6340	63mm x 63mm x 1 1/2"
HMDFT6350	63mm x 63mm x 2"
HMDFT6363	63mm x 63mm x 2 1/2"
HMDFT7550	75mm x 75mm x 2"
HMDFT7563	75mm x 75mm x 2 1/2"
HMDFT7575	75mm x 75mm x 3"
HMDFT9063	90mm x 90mm x 2 1/2"
HMDFT9075	90mm x 90mm x 3"
HMDFT110100	110mm x 110mm x 4"

Used to connect two Medium Density Polyethylene Pipe (MDPE) at a 90° angle

Elbow
Poly x Poly



Code	Metric
HMDE20	20mm x 20mm
HMDE25	25mm x 25mm
HMDE32	32mm x 32mm
HMDE40	40mm x 40mm
HMDE50	50mm x 50mm
HMDE63	63mm x 63mm
HMDE75	75mm x 75mm
HMDE90	90mm x 90mm
HMDE110	110mm x 110mm

Used for connecting Medium Density Polyethylene Pipe (MDPE) to Female Threads.

Male Elbow
Poly x BSPT



Code

HMDME2015
HMDME2020
HMDME2520
HMDME2525
HMDME3220
HMDME3225
HMDME3232
HMDME4025
HMDME4032
HMDME4040
HMDME5040
HMDME5050
HMDME6340
HMDME6350
HMDME6363
HMDME7563
HMDME7575
HMDME9075
HMDME90100
HMDME110100

Metric

20mm x 1/2"
20mm x 3/4"
25mm x 3/4"
25mm x 1"
32mm x 3/4"
32mm x 1"
32mm x 1 1/4"
40mm x 1"
40mm x 1 1/4"
40mm x 1 1/2"
50mm x 1 1/2"
50mm x 2"
63mm x 1 1/2"
63mm x 2"
63mm x 2 1/2"
75mm x 2 1/2"
75mm x 3"
90mm x 3"
90mm x 4"
110mm x 4"

Used for connecting Medium Density Polyethylene Pipe (MDPE) to Male Threads.

Female Elbow
Poly x BSPT



Code

HMDFE2015
HMDFE2020
HMDFE2515
HMDFE2520
HMDFE2525
HMDFE3220
HMDFE3225
HMDFE3232
HMDFE4032
HMDFE4040
HMDFE5040
HMDFE5050
HMDFE6340
HMDFE6350
HMDFE7563
HMDFE7575
HMDFE9075
HMDFE90100
HMDFE110100


Metric

20mm x 1/2"
20mm x 3/4"
25mm x 1/2"
25mm x 3/4"
25mm x 1"
32mm x 3/4"
32mm x 1"
32mm x 1 1/4"
40mm x 1 1/4"
40mm x 1 1/2"
50mm x 1 1/2"
50mm x 2"
63mm x 1 1/2"
63mm x 2"
75mm x 2 1/2"
75mm x 3"
90mm x 3"
90mm x 4"
110mm x 4"

Used to blank off pipe ends for future use

	Code	Metric
	HMDEC20	20mm
	HMDEC25	25mm
	HMDEC32	32mm
	HMDEC40	40mm
	HMDEC50	50mm
	HMDEC63	63mm
	HMDEC75	75mm
	HMDEC90	90mm
	HMDEC110	110mm

Replacement Parts *Replacement Parts for the Easy Fit Compression Fittings Range.*

	Code	Metric
	HMDTR20	20mm
	HMDTR25	25mm
	HMDTR32	32mm
	HMDTR40	40mm
	HMDTR50	50mm
	HMDTR63	63mm
	HMDTR75	75mm
	HMDTR90	90mm
	HMDTR110	110mm

	Code	Metric
	HMDN20	20mm
	HMDN25	25mm
	HMDN32	32mm
	HMDN40	40mm
	HMDN50	50mm
	HMDN63	63mm
	HMDN75	75mm
	HMDN90	90mm
	HMDN110	110mm

	Code	Metric
	HMDGR20	20mm
	HMDGR25	25mm
	HMDGR32	32mm
	HMDGR40	40mm
	HMDGR50	50mm
	HMDGR63	63mm
	HMDGR75	75mm
	HMDGR90	90mm
	HMDGR110	110mm

	Code	Metric
	HMDORING20	20mm
	HMDORING25	25mm
	HMDORING32	32mm
	HMDORING40	40mm
	HMDORING50	50mm
	HMDORING63	63mm
	HMDORING75	75mm
	HMDORING90	90mm
	HMDORING110	110mm



Choosing the right fitting just got **EASY**

Wondering which Hansen Easy Fit Pipe Fitting will fit your pipe? Wonder no more! The Hansen Han-Tool is a simple effective tool used to determine which Easy Fit Poly or Compression fitting will fit your pipe. No more cutting off pieces of pipe and taking them to the store! The Hansen Han-Tool takes the guess work out of it and tells you exactly which size and type fitting to choose.

Easy Fit Compression Fittings



Easy Fit Poly Fittings



Code: HAN-TOOL

Features:

- No more cutting off bits of pipe to take to the store.
- Pipe markings don't need to be visible, the Hansen Han-Tool tells you which size and type of Easy Fit Pipe Fitting to use.
- A simple, effective tool anybody can use.

The Han-Tool in this catalogue is protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia and other countries, including NZ patent 609364 and registered design 417500 and Australian patent 2013204330 and registered design 351876. HANSEN is a trade mark of the Hansen group of companies.

Choosing the right pipe fitting just got EASY



Determine which
Hansen Easy Fit
Pipe Fittings to use



The Hansen Han-Tool is a simple effective tool used to determine which Easy Fit Poly or Compression fitting will fit your pipe. No more cutting off pieces of pipe and taking them to the store! The Hansen Han-Tool takes the guess work out of it and tells you exactly which size and type of fitting to choose.

Before Measuring... Identify the Han-Tool Bottom



Bottom Outside



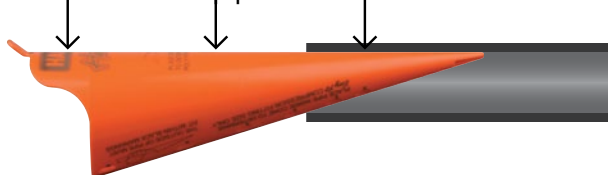
Bottom Inside

The Hansen Han-Tool has a **Bottom Outside** and a **Bottom Inside** as indicated in the images left. Identify these markings before proceeding.

Keep the Han-Tool Flush when measuring

When measuring the pipe in the following steps, the Han-Tool's **Bottom** must be kept **Flush** with the pipe to ensure an accurate read.

The Han-Tool's **Bottom Outside** must stay flush with inside of pipe wall



The Han-Tool's **Bottom Inside** must stay flush with outside of pipe wall

Cut the pipe squarely



Ensure the pipe is cut squarely using pipe cutters or a suitable pipe cutting tool so that an accurate pipe measurement can be read using the Han-Tool.

Checking pipe for an Easy Fit Poly Fitting

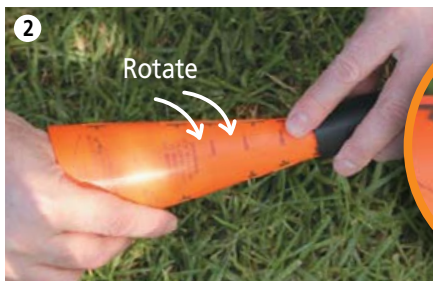


HANSEN

Easy Fit Poly Fittings



1. Insert the Han-Tool into the pipe. Use the subtle indentation marks to read the pipe. If the pipe falls within the range of one of the black marks then...

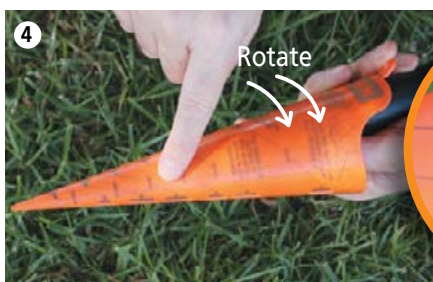


2. Rotate the Han-Tool & follow the line from the mark to see what sized Easy Fit Poly Fitting to use, then continue to step 3.

If the pipe did **NOT** meet a mark, go to Easy Fit Compression Fittings below.



3. If the pipe **DID** meet a mark in your first check, now insert the pipe into the Han-Tool & use the row of **larger holes** to confirm the previous size check for an Easy Fit Poly Fitting. The pipe should fall within the range of one of the black marks.



4. Then follow the line from the mark back to the size which should be the same as the one in your first check. This confirms which sized Easy Fit Poly Fitting to use on your pipe.

Checking pipe for an Easy Fit Compression Fitting



HANSEN

Easy Fit Compression Fittings



1. Insert the Han-Tool into the pipe. Use the subtle indentation marks to read the pipe. If the pipe does **NOT** meet a black mark then...



2. Insert the pipe into the Han-Tool and use the row of **smaller holes** to confirm the correct sized Easy Fit Compression Fitting to use on your pipe.

True Fit Threaded Fittings



SECTION TWO

Features and Benefits

- Largest range of durable, high strength, commercial quality Threaded Pipe Fittings in the Southern Hemisphere
- Precision Heavy Duty Tapered Threads give a Strong Reliable Seal
- Manufactured from a Raw Material Approved For Use With Potable (drinkable) Water
- Manufactured from High Quality Glass Fibre Reinforced Nylon giving a Weather, Termite, Fungi & Bacteria Resistant
- Common Applications Include Horticultural, Agricultural, Irrigation, Marine & Plumbing
- Material strong enough to minimise potential cross threading
- WRAS - Approval for use with potable (drinkable) water as they will not leach contaminants into the water.
- Suitable for use above or below ground in varying operating pressures and temperatures
- Strong, Lightweight and Compact
- Available in a variety of thread combinations and connections.
- New Zealand Made

Standards & Approvals

AS/NZS 4020 HANSEN™ *True Fit* Threaded Fittings from 6mm to 100mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

WRAS approval means that HANSEN™ *True Fit* Threaded Fittings are approved for use with potable (drinkable) water, and that they will not leach contaminants into the water.

Conversion Chart

16 Bar – 1600 kPa – 235 psi
12 Bar – 1200 kPa – 175 psi
10 Bar – 1000 kPa – 145 psi

20° Celcius – 68° Fahrenheit

Conversions

6mm - 1/8"	20mm - 3/4"	50mm - 2"
8mm - 1/4"	25mm - 1"	65mm - 2 1/2"
10mm - 3/8"	32mm - 1 1/4"	80mm - 3"
15mm - 1/2"	40mm - 1 1/2"	100mm - 4"



After the success of the Hansen Polythene Pipe Fittings, Hansen Products decided to design and manufacture a range of *True Fit* Threaded Pipe Fittings as there was a high demand for non-metallic threaded fittings. The Hansen range of *True Fit* Threaded Fittings is one of the largest ranges of durable, high strength, commercial quality Threaded Pipe Fittings in the Southern Hemisphere with over 250 products in the range.

Hansen *True Fit* Threaded Fittings are suitable for use above or below ground, in varying operating pressures and temperatures. They are Strong, Lightweight and Compact and are available in a variety of thread combinations and connections.

With over 50 years experience in manufacturing, Hansen Products knows the importance that pipe fittings play in the performance and control of fluid delivery, flow and pressure within a pipe system. This has seen Hansen Products build a reputation for providing high performance, easy to use, innovative, simple products that provide our customers with "Best Installed Value". All Hansen products carry our Lifetime Warranty*

*For more information on our warranty please visit www.hansenproducts.com/legal.htm

Used to connect Female Threads

Hex Nipple
BSPT x BSPT



Code	Metric	Imperial
HSN06	6mm x 6mm	1/8" x 1/8"
HSN08	8mm x 8mm	1/4" x 1/4"
HSN10	10mm x 10mm	3/8" x 3/8"
HSN15	15mm x 15mm	1/2" x 1/2"
HSN20	20mm x 20mm	3/4" x 3/4"
HSN25	25mm x 25mm	1" x 1"
HSN32	32mm x 32mm	1 1/4" x 1 1/4"
HSN40	40mm x 40mm	1 1/2" x 1 1/2"
HSN50	50mm x 50mm	2" x 2"
HSN65	65mm x 65mm	2 1/2" x 2 1/2"
HSN80	80mm x 80mm	3" x 3"
HSN100	100mm x 100mm	4" x 4"

Used as a reducing join, to join two Female Threads

Reducing Hex Nipple
BSPT x BSPT



Code	Metric	Imperial
HRHN0806	8mm x 6mm	1/4" x 1/8"
HRHN1006	10mm x 6mm	3/8" x 1/8"
HRHN1008	10mm x 8mm	3/8" x 1/4"
HRHN1506	15mm x 6mm	1/2" x 1/8"
HRHN1508	15mm x 8mm	1/2" x 1/4"
HRHN1510	15mm x 10mm	1/2" x 3/8"
HRHN2010	20mm x 10mm	3/4" x 3/8"
HRHN2015	20mm x 15mm	3/4" x 1/2"
HRHN2515	25mm x 15mm	1" x 1/2"
HRHN2520	25mm x 20mm	1" x 3/4"
HRHN3220	32mm x 20mm	1 1/4" x 3/4"
HRHN3225	32mm x 25mm	1 1/4" x 1"
HRHN4020	40mm x 20mm	1 1/2" x 3/4"
HRHN4025	40mm x 25mm	1 1/2" x 1"
HRHN4032	40mm x 32mm	1 1/2" x 1 1/4"
HRHN5020	50mm x 20mm	2" x 3/4"
HRHN5025	50mm x 25mm	2" x 1"
HRHN5032	50mm x 32mm	2" x 1 1/4"
HRHN5040	50mm x 40mm	2" x 1 1/2"
HRHN6532	65mm x 32mm	2 1/2" x 1 1/4"
HRHN6540	65mm x 40mm	2 1/2" x 1 1/2"

continued from previous Page

Reducing Hex Nipple

BSPT x BSPT



HRHN6550	65mm x 50mm	2 1/2" x 2"
HRHN8040	80mm x 40mm	3" x 1 1/2"
HRHN8050	80mm x 50mm	3" x 2"
HRHN8065	80mm x 65mm	3" x 2 1/2"
HRHN10050	100mm x 50mm	4" x 2"
HRHN10065	100mm x 65mm	4" x 2 1/2"
HRHN10080	100mm x 80mm	4" x 3"

Used to connect two Male Threads

Hex Socket

BSPT x BSPT



Code	Metric	Imperial
HSS15	15mm x 15mm	1/2" x 1/2"
HSS20	20mm x 20mm	3/4" x 3/4"
HSS25	25mm x 25mm	1" x 1"
HSS32	32mm x 32mm	1 1/4" x 1 1/4"
HSS40	40mm x 40mm	1 1/2" x 1 1/2"
HSS50	50mm x 50mm	2" x 2"
HSS65	65mm x 65mm	2 1/2" x 2 1/2"
HSS80	80mm x 80mm	3" x 3"
HSS100	100mm x 100mm	4" x 4"

Used as a reducing join, to join two Male Threads

Reducing Hex Socket

BSPT x BSPT



Code	Metric	Imperial
HSRS2015	20mm x 15mm	3/4" x 1/2"
HSRS2515	25mm x 15mm	1" x 1/2"
HSRS2520	25mm x 20mm	1" x 3/4"
HSRS3220	32mm x 20mm	1 1/4" x 3/4"
HSRS3225	32mm x 25mm	1 1/4" x 1"
HSRS4020	40mm x 20mm	1 1/2" x 3/4"
HSRS4025	40mm x 25mm	1 1/2" x 1"
HSRS4032	40mm x 32mm	1 1/2" x 1 1/4"
HSRS5020	50mm x 20mm	2" x 3/4"
HSRS5025	50mm x 25mm	2" x 1"
HSRS5032	50mm x 32mm	2" x 1 1/4"
HSRS5040	50mm x 40mm	2" x 1 1/2"
HSRS6540	65mm x 40mm	2 1/2" x 1 1/2"
HSRS6550	65mm x 50mm	2 1/2" x 2"
HSRS8050	80mm x 50mm	3" x 2"

continued from previous Page

Reducing Hex Socket

BSPT X BSPT



HSRS8065	80mm x 65mm	3" x 2 1/2"
HSRS10065	100mm x 65mm	4" x 2 1/2"
HSRS10080	100mm x 80mm	4" x 3"

Used to reduce the size of Female Threads

Reducing Bush

BSPT X BSPT



Code	Metric	Imperial
HRB1506	15mm x 6mm	1/2" x 1/8"
HRB1508	15mm x 8mm	1/2" x 1/4"
HRB1510	15mm x 10mm	1/2" x 3/8"
HRB2008	20mm x 8mm	3/4" x 1/4"
HRB2010	20mm x 10mm	3/4" x 3/8"
HRB2015	20mm x 15mm	3/4" x 1/2"
HRB2508	25mm x 8mm	1" x 1/4"
HRB2510	25mm x 10mm	1" x 3/8"
HRB2515	25mm x 15mm	1" x 1/2"
HRB2520	25mm x 20mm	1" x 3/4"
HRB3215	32mm x 15mm	1 1/4" x 1/2"
HRB3220	32mm x 20mm	1 1/4" x 3/4"
HRB3225	32mm x 25mm	1 1/4" x 1"
HRB4015	40mm x 15mm	1 1/2" x 1/2"
HRB4020	40mm x 20mm	1 1/2" x 3/4"
HRB4025	40mm x 25mm	1 1/2" x 1"
HRB4032	40mm x 32mm	1 1/2" x 1 1/4"
HRB5015	50mm x 15mm	2" x 1/2"
HRB5020	50mm x 20mm	2" x 3/4"
HRB5025	50mm x 25mm	2" x 1"
HRB5032	50mm x 32mm	2" x 1 1/4"
HRB5040	50mm x 40mm	2" x 1 1/2"
HRB6532	65mm x 32mm	2 1/2" x 1 1/4"
HRB6540	65mm x 40mm	2 1/2" x 1 1/2"
HRB6550	65mm x 50mm	2 1/2" x 2"
HRB8040	80mm x 40mm	3" x 1 1/2"
HRB8050	80mm x 50mm	3" x 2"
HRB8065	80mm x 65mm	3" x 2 1/2"
HRB10050	100mm x 50mm	4" x 2"
HRB10065	100mm x 65mm	4" x 2 1/2"
HRB10080	100mm x 80mm	4" x 3"

Used to connect three Male Threads



Female Threaded Tee
BSPT x BSPT x BSPT

Code	Metric	Imperial
HTT15	15mm x 15mm x 15mm	1/2" x 1/2" x 1/2"
HTT20	20mm x 20mm x 20mm	3/4" x 3/4" x 3/4"
HTT25	25mm x 25mm x 25mm	1" x 1" x 1"
HTT32	32mm x 32mm x 32mm	1 1/4" x 1 1/4" x 1 1/4"
HTT40	40mm x 40mm x 40mm	1 1/2" x 1 1/2" x 1 1/2"
HTT50	50mm x 50mm x 50mm	2" x 2" x 2"
HTT65	65mm x 65mm x 65mm	2 1/2" x 2 1/2" x 2 1/2"
HTT80	80mm x 80mm x 80mm	3" x 3" x 3"
HTT100	100mm x 100mm x 100mm	4" x 4" x 4"

Used to connect two Male Threads at a 90 degree angle



Female Threaded Elbow
BSPT x BSPT

Code	Metric	Imperial
HTE15	15mm x 15mm	1/2" x 1/2"
HTE20	20mm x 20mm	3/4" x 3/4"
HTE25	25mm x 25mm	1" x 1"
HTE32	32mm x 32mm	1 1/4" x 1 1/4"
HTE40	40mm x 40mm	1 1/2" x 1 1/2"
HTE50	50mm x 50mm	2" x 2"
HTE65	65mm x 65mm	2 1/2" x 2 1/2"
HTE80	80mm x 80mm	3" x 3"
HTE100	100mm x 100mm	4" x 4"

Used to join a Male Thread and a Female Thread at a 90 degree angle



**Male/Female
Threaded Elbow**
BSPT x BSPT

Code	Metric	Imperial
HTMFE15	15mm x 15mm	1/2" x 1/2"
HTMFE20	20mm x 20mm	3/4" x 3/4"
HTMFE25	25mm x 25mm	1" x 1"
HTMFE32	32mm x 32mm	1 1/4" x 1 1/4"
HTMFE40	40mm x 40mm	1 1/2" x 1 1/2"
HTMFE50	50mm x 50mm	2" x 2"

Used for capping off Male Threads

Hex Screw Cap
BSPT



Code	Metric	Imperial
HCP15	15mm	1/2"
HCP20	20mm	3/4"
HCP25	25mm	1"
HCP32	32mm	1 1/4"
HCP40	40mm	1 1/2"
HCP50	50mm	2"
HCP65	65mm	2 1/2"
HCP80	80mm	3"
HCP100	100mm	4"

Used for plugging off Female Threads

Hex Screw Plug
BSPT



Code	Metric	Imperial
HSP06	6mm	1/8"
HSP08	8mm	1/4"
HSP10	10mm	3/8"
HSP15	15mm	1/2"
HSP20	20mm	3/4"
HSP25	25mm	1"
HSP32	32mm	1 1/4"
HSP40	40mm	1 1/2"
HSP50	50mm	2"
HSP65	65mm	2 1/2"
HSP80	80mm	3"
HSP100	100mm	4"

An accessory plug for tanks

Tank Plug
BSPT



Code	Metric	Imperial
HTP50	50mm	2"

Male/Female Adaptor
BSPT x BSPT



Used as a Male/Female reducing joiner for sprinkler risers, garden hose taps and water filters

Code	Metric	Imperial
HMFA1520	15mm x 20mm	1/2" x 3/4"

Used in Irripod Systems to attach the Tow Rope and Ball to the end of the pipe line system



Tow Eye
BSPT x Tow Eye

Code	Metric	Imperial
PODTE45/50	50mm	2"



Tow Eye
NPT x Tow Eye

PODTE50NPT*	50mm	2"
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**Non stock item, available on request*

Used for a quick and easy connection for a variety of hoses to taps & pumps



Nut & Tail Elbow
BSP x Hose

Code	Metric	Imperial
HNTE20	20mm x 20mm	3/4" x 3/4"
HNTE25	25mm x 25mm	1" x 1"

Nut & Hose Tail
BSP x Hose



HNT15	15mm x 15mm	1/2" x 1/2"
HNT20	20mm x 20mm	3/4" x 3/4"
HNT2015	20mm x 15mm	3/4" x 1/2"
HNT25	25mm x 25mm	1" x 1"
HNT2515	25mm x 15mm	1" x 1/2"
HNT2520	25mm x 20mm	1" x 3/4"
HNT32	32mm x 32mm	1 1/4" x 1 1/4"
HNT40	40mm x 40mm	1 1/2" x 1 1/2"
HNT50	50mm x 50mm	2" x 2"
HNT80	80mm x 80mm	3" x 3"

Used for connecting Female Threads to flexible pipe and hose. Push on hose and use a hose clip to hold hose on.

Male Hose Tail
 BSPT x Hose



Code	Metric	Imperial
HHT06	6mm x 6mm	1/8" x 1/8"
HHT08	8mm x 8mm	1/4" x 1/4"
HHT10	10mm x 10mm	3/8" x 3/8"
HHT15	15mm x 15mm	1/2" x 1/2"
HHT20	20mm x 20mm	3/4" x 3/4"
HHT25	25mm x 25mm	1" x 1"
HHT32	32mm x 32mm	1 1/4" x 1 1/4"
HHT40	40mm x 40mm	1 1/2" x 1 1/2"
HHT50	50mm x 50mm	2" x 2"
HHT80	80mm x 80mm	3" x 3"

Reducing Male Hose Tail
 BSPT x Hose



HRHT0806	8mm x 6mm	1/4" x 1/8"
HRHT0810	8mm x 10mm	1/4" x 3/8"
HRHT1006	10mm x 6mm	3/8" x 1/8"
HRHT1008	10mm x 8mm	3/8" x 1/4"

An accessory Washer for the Nut & Tail Fitting.

Nut & Tail Washer
 Rubber Black



Code	Metric	Imperial
HNTW15	15mm	1/2"
HNTW20	20mm	3/4"
HNTW25	25mm	1"
HNTW32	32mm	1 1/4"
HTNW40	40mm	1 1/2"
HTNW50	50mm	2"
HTNW80	80mm	3"

The Standard Adaptor is used for installing a Hansen Trough or Tank Valve into a threaded inlet

Standard Adaptor
with O-Ring Seal



Code

HMA15
HMA20
HMA25
HMA32
HMA40
HMA50

Description

25mm BSPT to 15mm BSPT
25mm BSPT to 20mm BSPT
25mm BSPT to 25mm BSPT
25mm BSPT to 32mm BSPT
25mm BSPT to 40mm BSPT
25mm BSPT to 50mm BSPT

The Long Tail Adaptor is used for a Hansen Trough or Tank Valve when installing through a trough or tank wall.

Long Tail Adaptor
with O-Ring Seal



Code

HMAL15
HMAL20
HMAL25
HMAL32

Description

25mm BSPT to 15mm BSPT
25mm BSPT to 20mm BSPT
25mm BSPT to 25mm BSPT
25mm BSPT to 32mm BSPT

Features and Benefits

- Designed for use in tanks, troughs and a wide variety of marine applications.
- Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance
- An extensive range of fittings in sizes 15mm to 100mm (1/2" to 4")
- Precision Heavy Duty Tapered Threads give a Strong Reliable Seal
- Material is strong enough to minimise potential cross threading
- Fittings provide flexibility and versatility for new and existing installations, saving on time and money
- All materials are fully resistant to salt water making them ideally suited to marine applications.

Standards & Approvals

AS/NZS 4020 HANSEN™ *True Fit* Tank Fittings from 15mm to 100mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

Conversion Chart

16 Bar – 1600 kPa – 235 Psi
12 Bar – 1200 kPa – 175 Psi
10 Bar – 1000 kPa – 145 Psi

20° Celcius – 68° Fahrenheit

Conversions

15mm - 1/2"	32mm - 1 1/4"	65mm - 2 1/2"
20mm - 3/4"	40mm - 1 1/2"	80mm - 3"
25mm - 1"	50mm - 2"	100mm - 4"

Female Tank Fitting



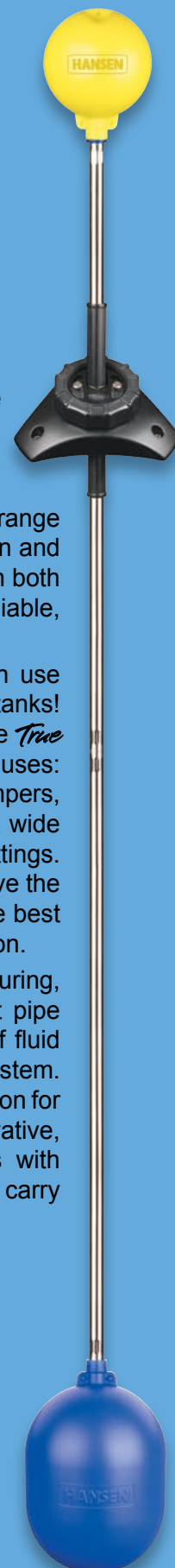
After the success of the Hansen Polythene Pipe Fittings, Hansen Products decided to design and manufacture a range of *True Fit* Tank Fittings as there was a high demand for high quality non-metallic fittings. The Hansen range of *True Fit* Tank Fittings was consequently born and have become well recognised internationally in both domestic and commercial markets for their reliable, dependable sealing capabilities.

Traditionally the *True Fit* Tank Fittings main use has been exactly as its name describes, for tanks! But in actual fact the Hansen Male and Female *True Fit* Tank Fittings have a greater variety of uses: Tanks, Troughs, Marine applications, Campers, Caravans, Irrigation, Home applications and a wide range of other domestic and commercial settings. The Hansen range of *True Fit* Tank Fittings have the qualifications that assure you have chosen the best tank fitting solution available for your application.

With over 50 years experience in manufacturing, Hansen Products knows the importance that pipe fittings play in the performance and control of fluid delivery, flow and pressure within a pipe system. This has seen Hansen Products build a reputation for providing high performance, easy to use, innovative, simple products that provide our customers with "Best Installed Value". All Hansen products carry our Lifetime Warranty*

*For more information on our warranty please visit www.hansenproducts.com/legal.htm

Level Alert Indicator



Used for connecting valves and pipes to tanks and troughs.
Comes with 1 x LDPE Washer & 1 x Rubber Washer

Female Tank Fitting Black
BSPT or NPT



Code	Metric	Imperial
HTFFTB15	15mm	1/2"
HTFFTB20	20mm	3/4"
HTFFTB25	25mm	1"
HTFFTB32	32mm	1 1/4"
HTFFTB40	40mm	1 1/2"
HTFFTB50	50mm	2"
HTFFB80	80mm	3"
HTFFB100	100mm	4"
HTFFB80NPT	80mm	3"
HTFFB100NPT	100mm	4"

NPT Products are a non stock item, available on request

Used for connecting Low Density Polythene Pipe (LDPE), Flexible Pipe & Hose. Push on hose and use a hose clip to hold hose on. Used in tanks and in hulls on boats.

Male Tank Fitting Black
Hose End



Code	Metric	Imperial
HTFB15	15mm	1/2"
HTFB20	20mm	3/4"
HTFB25	25mm	1"
HTFB32	32mm	1 1/4"
HTFB40	40mm	1 1/2"
HTFB50	50mm	2"

Used for connecting Low Density Polythene Pipe (LDPE), Flexible Pipe & Hose. Push on hose and use a hose clip to hold hose on. Used in tanks and in hulls on boats.

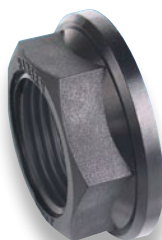
Male Tank Fitting White
Hose End



Code	Metric	Imperial
HTFW15	15mm	1/2"
HTFW20	20mm	3/4"
HTFW25	25mm	1"
HTFW32	32mm	1 1/4"
HTFW40	40mm	1 1/2"
HTFW50	50mm	2"

An accessory Nut designed to fit Male Tank Fittings Black & White (HTF)

Back Nut Black
BSPT



Code	Metric	Imperial
HBN15	15mm	1/2"
HBN20	20mm	3/4"
HBN25	25mm	1"
HBN32	32mm	1 1/4"
HBN40	40mm	1 1/2"
HBN50	50mm	2"

Back Nut White
BSPT



HBNW15	15mm	1/2"
HBNW20	20mm	3/4"
HBNW25*	25mm	1"
HBNW32*	32mm	1 1/4"
HBNW40*	40mm	1 1/2"
HBNW50*	50mm	2"

**Non stock item, available on request*

An accessory Nut designed to fit the Female Tank Fitting (HTFFT)

Large Back Nut Black
 BSPT



Code	Metric	Imperial
HBNL15	15mm	1/2"
HBNL20	20mm	3/4"
HBNL25	25mm	1"
HBNL32	32mm	1 1/4"
HBNL40	40mm	1 1/2"
HBNL50	50mm	2"

Left Hand ACME thread Back Nut designed to fit Female Tank Fitting (HTFFT 80 and 100mm)

Back Nut Left Hand Thread
 Black



Code	Metric	Imperial
HBN80	80mm	3"
HBN100	100mm	4"

Tank Fitting Washers

An accessory Washer designed to fit the Black Male Tank Fitting (HTF)

Male Tank Fitting Rubber Washer
 Black



Code	Metric	Imperial
HW15	15mm	1/2"
HW20	20mm	3/4"
HW25	25mm	1"
HW32	32mm	1 1/4"
HW40	40mm	1 1/2"
HW50	50mm	2"

An accessory Washer designed to fit the White Male Tank Fitting (HTF)

Male Tank Fitting Rubber Washer
 White



Code	Metric	Imperial
HRWW15*	15mm	1/2"
HRWW20*	20mm	3/4"
HRWW25*	25mm	1"
HRWW32*	32mm	1 1/4"
HRWW40*	40mm	1 1/2"
HRWW50*	50mm	2"

**Non stock item, available on request*

An accessory Washer designed to fit the Black Male Tank Fitting (HTF)

Male Tank Fitting
LDPE Washer
Black



Code	Metric	Imperial
HW15PB*	15mm	1/2"
HW20PB*	20mm	3/4"
HW25PB*	25mm	1"
HW32PB*	32mm	1 1/4"
HW40PB*	40mm	1 1/2"
HW50PB*	50mm	2"

**Non stock item, available on request*

An accessory Washer designed to fit the White Male Tank Fitting (HTF)

Male Tank Fitting
LDPE Washer
White



Code	Metric	Imperial
PW15*	15mm	1/2"
PW20	20mm	3/4"
PW25	25mm	1"
PW32	32mm	1 1/4"
PW40	40mm	1 1/2"
PW50	50mm	2"

**Non stock item, available on request*

An accessory Washer designed to fit the Female Tank Fitting (HTFFT)

Large Female Tank
Fitting Rubber Washer
Black



Code	Metric	Imperial
HWL15	15mm	1/2"
HWL20	20mm	3/4"
HWL25	25mm	1"
HWL32	32mm	1 1/4"
HWL40	40mm	1 1/2"
HWL50	50mm	2"
HWL80R	80mm	3"
HWL100R*	100mm	4"

**Non stock item, available on request*

An accessory Washer designed to fit the Female Tank Fitting (HTFFT)

Female Tank Fitting
 LDPE Washer
 Black



Code	Metric	Imperial
HWL15P*	15mm	1/2"
HWL20P*	20mm	3/4"
HWL25P*	25mm	1"
HWL32P*	32mm	1 1/4"
HWL40P*	40mm	1 1/2"
HWL50P*	50mm	2"
HWL80P	80mm	3"
HWL100P*	100mm	4"

**Non stock item, available on request*

An accessory Washer designed to be used with all Hansen Tank Fittings when installed on corrugated tanks

Corrugated Tank Washer
 and Seal



Code	Metric	Imperial
HCW25	25mm	1"
HCW50	50mm	2"



Hansen Easy Fit Female Bend HFB50 into Hansen True Fit Female Tank Fitting HTFTB50 onto a Corrugated Tank Washer



Code

LEVEL ALERT

Description

Tank Level Alert Indicator

Supplied with: 3 lengths of 669mm Stainless Steel Tubes (16mm diameter) Stainless Steel Fastenings, 115mm Threaded HiViz Float, 230mm Long Threaded Blue Float, UniTri Mounting Base

Monitor Water Levels

- ✓ Prevent Pump Burnout caused by Dry Tank Syndrome
- ✓ See at a glance your tank water level
- ✓ Suitable for any type or size tank
- ✓ Essential part of your water management
- Fully Adjustable UniTri mounting base
- UniTri mount will adapt to a range of tank roof angles (max 35° angle)
- Suitable for Plastic, Concrete and Steel Tanks
- Manufactured from UV resistant durable, Glass Fibre Reinforced Nylon with Stainless Steel Tubes (16mm diameter) and Stainless Steel Fastenings
- Complete with all mounting fastenings for all applications
- Optional Stainless Steel Extension tubes available (669mm)
- Supplied with 3 lengths of 669mm Heavy Duty Stainless Steel Tube (16mm diameter), Stainless Steel Fastenings, 115mm Threaded HiViz Float, 230mm Long Threaded Blue Float, UniTri Mounting Base



Level Alert Indicator installed in Tank



UniTri Mounting Base

The Level Alert in this catalogue is protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia & other countries, including NZ patent 596360 and NZ registered design 415007 and Australian patent 2012203010 and registered design 340061. HANSEN is a trade mark of the Hansen group of companies.

Components of the *Level Alert*

Code	Description
	HLASSTUBE 669mm Stainless Steel Tube (2 x 16mm diameter Male & Female) (1 x 16mm diameter Male & Male)
	HLANUTB Black Cap Nut
	HLAGUIDE Guide Tube Assembly
	HLALSCREW Security Lock Screw
	HLAMSCREW UniTri Mount Screws
	HLAUNIMOUNT UniTri Mount
	HLAPLUGS Wall Plugs
	HLANUTS Plastic Wing Nuts
	HDUALFLOATA Dual Float Adaptor
	HFLOAT230L 155mm x 230mm Long Threaded Float Blue
	HFLOAT115HI 115mm HiViz Threaded Float
	LADRILLBIT4 4mm Drill Bit
	LADRILLBIT7 7mm Concrete Drill Bit



Hi Flo Valves



Best Installed Value

SECTION FOUR

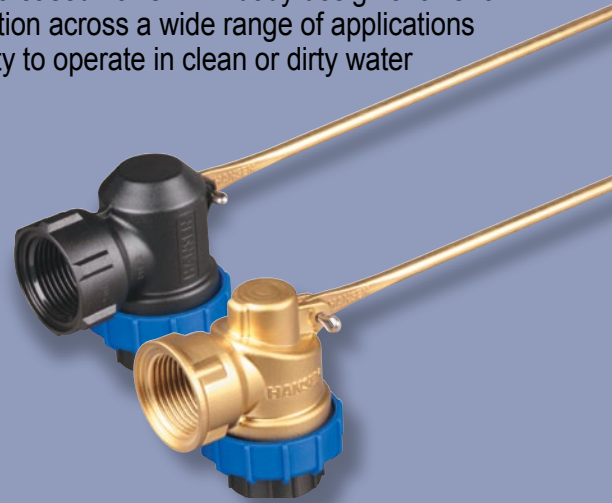
Fast ~ Flo Trough / Tank Valve

The Hansen Fastflo valve is ideally suited to tight fitting environments that demand a more compact sized valve with responsive on/off capabilities, exceptional flow rates and adaptability. The Fastflo allows a hose attachment to both diffuse and help eliminate noise from the outlet flow and has a tough, reversible urethane seat which effectively doubles the life of the valve providing a 'best of class' valve that's reliable for the long term.



Super ~ Flo Piston Trough Valve

Hansen Super~Flo Piston Valves have been designed with multiple thread and connection combinations. To increase overall durability and versatility, the "Slipper Fit Piston" design reduces sticking and increases efficiencies. Less operating pressure is required reducing pumping costs with increased flows. Mini body design allows for easy installation across a wide range of applications and the ability to operate in clean or dirty water applications.



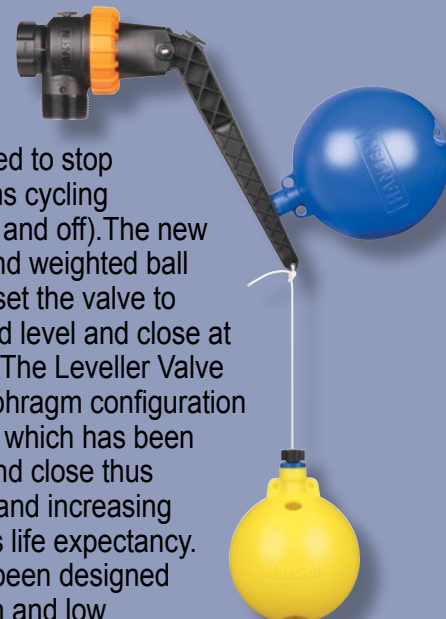
Max ~ Flo Diaphragm Trough / Tank Valve

The Hansen Max~Flo Diaphragm Valve has been designed with multiple thread and connection combinations to increase overall durability and versatility. The Patent pending "Self Cleaning Pilot" ensures the valves are durable and suitable for dirty water applications. Less operating pressure is required, reducing pumping costs and increasing flow. Mini body design allows for easy installation across a wide range of applications and our 30 year time tested performance slow open and close Diaphragm ensures no undue stress is placed on pump lines or pumps.



Leveller Reservoir/Tank Valve

The Hansen Leveller Valve has been designed for tank installations where a level differential is required to stop pumps and water systems cycling (continually switching on and off). The new design features a float and weighted ball that enables the user to set the valve to open at the minimum fluid level and close at the maximum fluid level. The Leveller Valve features the Hansen diaphragm configuration with "Self Cleaning Pilot" which has been designed for soft open and close thus reducing water hammer and increasing pump and water systems life expectancy. The Leveller Valve has been designed to operate reliably in high and low pressures (0.2 bar - 12 bar) and in Clean and Dirty fluid conditions.



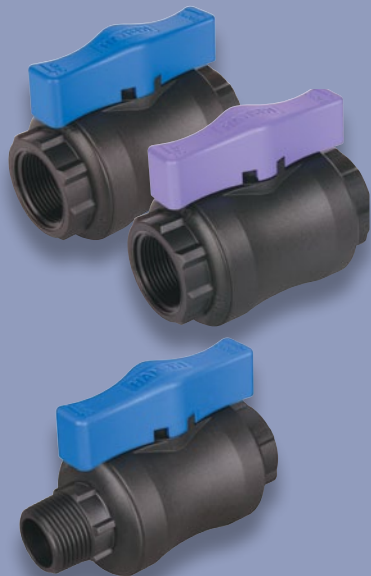


Best Installed Value

HiFlo Valves

SECTION FOUR

Full~Flo Ball Valve



Hansen manufactures a range of Full Flow Ball Valves that have been designed to be used anywhere the flow of fluid needs to be stopped or started.

The Hansen range of Full Flow Ball Valves are for use above or below ground are strong, lightweight, compact and provide smooth unrestricted leak free on/off control. The Hansen Full Flow Ball Valves are available in various combinations including different coloured handles, thread types and connections and will function across a wide range of operating pressures and temperatures. The entire Ball Valve range is available in BSPT and NPT threads.



Hansen Full Flow Ball Valves are individually hand tested using both Air and Water



Hansen Ball Valves are Frost Friendly and have been tested in frost conditions. Results may vary in freezing conditions.

Check Valve



Hansen Check Valves are used in-line as a non-return valve to stop fluids from flowing back through your system. The unique design gives you exceptional flow rates, which means you can move more water in less time saving on pumping costs. The Screw Cap allows for easy access for in-line servicing, there is no Poppet Valve to wear or jam and the Diaphragm and Spring are interchangeable and replaceable with the same size Foot Valve.



HANSEN Check Valves are rigorously hand tested using Air.

Foot Valve



Hansen Foot Valves are used on the end of a suction line to stop fluids in the line emptying when the pump is turned off, thus eliminating the need to prime your pump at start up. The unique design gives you more flow in less time which saves on pumping costs, it has unrestricted Full Flow and has an efficiency in excess of 95% of many other types of Foot Valves. The unique product design incorporates a built in Strainer and operates at any angle or position. There is no Poppet Valve to wear or jam, it is easily serviced and the Diaphragm and Spring are interchangeable and replaceable with the same size Check Valve. Blockages are also reduced due to Low Fluid Velocity through the Slots.



HANSEN Foot Valves are rigorously hand tested using Air.

HiFlo Valves

Foot Valves Check Valves

Check Valve BSPT



Hansen Check Valves are used in-line as a non-return valve to stop fluids from flowing back through your system. The unique design gives you exceptional flow rates, which means you can move more water in less time saving on pumping costs. The Screw Cap allows for easy access for in-line servicing, there is no Poppet Valve to wear or jam and the Diaphragm and Spring are interchangeable and replaceable with the same size Foot Valve.

Code	Metric	Imperial
HCV25	25mm	1"
HCV32	32mm	1 1/4"
HCV40	40mm	1 1/2"
HCV50	50mm	2"
HCV63	63mm	2 1/2"

Foot Valve BSPT



Hansen Foot Valves are used on the end of a suction line to stop fluids in the line emptying when the pump is turned off, thus eliminating the need to prime your pump at start up. The unique design gives you more flow in less time which saves on pumping costs, it has unrestricted Full Flow and has an efficiency in excess of 95% of many other types of Foot Valves. The unique product design incorporates a built in Strainer and operates at any angle or position. There is no Poppet Valve to wear or jam, it is easily serviced and the Diaphragm and Spring are interchangeable and replaceable with the same size Check Valve. Blockages are also reduced due to Low Fluid Velocity through the Slots.

Code	Metric	Imperial
HFV25	25mm	1"
HFV32	32mm	1 1/4"
HFV40	40mm	1 1/2"
HFV50	50mm	2"
HFV63	63mm	2 1/2"

Diaphragm and Spring



Code	Metric	Imperial
HVD25*	25mm	1"
HVD32	32mm	1 1/4"
HVD40	40mm	1 1/2"
HVD50	50mm	2"
HVD63	63mm	2 1/2"

Filter Sock for the Foot Valve to help filter and stop particles entering the Valve.



Foot Valve Sock

Code	Description
HFVFS	Foot Valve Sock - to fit FV25-40mm
HFVFSL	Foot Valve Sock - to fit FV50-63mm

*Non stock item, available on request

Full Flow Ball Valves



**Blue Handle Ball Valve
for General Applications**
BSPT



Hansen Full Flow Ball Valves can be used anywhere the flow of fluid needs to be stopped or started. The entire Ball Valve range is available in BSPT and NPT threads.

Code	Metric	Imperial
HBV15	15mm	1/2"
HBV20	20mm	3/4"
HBV25	25mm	1"
HBV32	32mm	1 1/4"
HBV40	40mm	1 1/2"
HBV50	50mm	2"
HBV15NPT	15mm	1/2"
HBV20NPT	20mm	3/4"
HBV25NPT	25mm	1"
HBV32NPT	32mm	1 1/4"
HBV40NPT	40mm	1 1/2"
HBV50NPT	50mm	2"

**Lilac Handle Ball Valve for Grey
Water Applications**
BSPT



Code	Metric	Imperial
HBVL15	15mm	1/2"
HBVL20	20mm	3/4"
HBVL25	25mm	1"
HBVL32	32mm	1 1/4"
HBVL40	40mm	1 1/2"
HBVL50	50mm	2"
HBVL15NPT*	15mm	1/2"
HBVL20NPT*	20mm	3/4"
HBVL25NPT*	25mm	1"
HBVL32NPT*	32mm	1 1/4"
HBVL40NPT*	40mm	1 1/2"
HBVL50NPT*	50mm	2"

**Non stock item, available on request*

**Blue Handle
Male/Female Threaded Ball Valve**
BSPT



Code	Metric	Imperial
HBV25MF	25mm	1"
HBV32MF	32mm	1 1/4"
HBV40MF	40mm	1 1/2"
HBV50MF	50mm	2"

An accessory Handle for the Ball Valve range

**Blue Handle for
General Applications**



Code	Metric	Imperial
HBVHB15/20	15/20mm	1/2" - 3/4"
HBVHB25	25mm	1"
HBVHB32	32mm	1 1/4"
HBVHB40	40mm	1 1/2"
HBVHB50	50mm	2"

**Lilac Handle for
Grey Water Applications**



Code	Metric	Imperial
HBVHL15/20*	15/20mm	1/2" - 3/4"
HBVHL25*	25mm	1"
HBVHL32*	32mm	1 1/4"
HBVHL40*	40mm	1 1/2"
HBVHL50*	50mm	2"

**Green Handle for increased
visibility and to differentiate**



Code	Metric	Imperial
HBVHG15/20*	15/20mm	1/2" - 3/4"
HBVHG25*	25mm	1"
HBVHG32*	32mm	1 1/4"
HBVHG40*	40mm	1 1/2"
HBVHG50*	50mm	2"

OTHER COLOURED BALL VALVE HANDLES AVAILABLE ON REQUEST.

**Non stock item, available on request*

Fast-Flo Trough / Tank Valve



Hansen *Fast-Flo* Valves feature a patented Hansen Ezi Bend brass arm making level adjustment a breeze

Adding to the Hansen HiFlo family of valves comes the much anticipated release of the Hansen *Fast-Flo* valve. Ideally suited to tight fitting environments that demand a more compact sized valve with responsive on/off capabilities, the *Fast-Flo* valve brings with it exceptional flow rates and adaptability. Built to the same quality and precision specifications as the Hansen range of valves that precede it, the barbed outlet allows for a hose attachment to both diffuse and help eliminate noise from the outlet flow. A tough, reversible urethane seat effectively doubles the life of the valve providing a 'best of class' valve that's reliable for the long term.

Code Description



HFFSV15LS Fastflo Short Brass Arm with 15mm Long Tail Adaptor

Supplied with: Complete Plastic Valve Body, Brass Arm & 15mm Long Tail Adaptor



HFFSV20LS Fastflo Short Brass Arm with 20mm Long Tail Adaptor

Supplied with: Complete Plastic Valve Body, Brass Arm & 20mm Long Tail Adaptor



HFFSV25LS Fastflo Short Brass Arm with 25mm Long Tail Adaptor

Supplied with: Complete Plastic Valve Body, Brass Arm & 25mm Long Tail Adaptor



HFFSV15L Fastflo Long Brass Arm with 15mm Long Tail Adaptor

Supplied with: Complete Plastic Valve Body, Brass Arm, 15mm Long Tail Adaptor and 700mm Cord and Nuts



HFFSV20L Fastflo Long Brass Arm with 20mm Long Tail Adaptor

Supplied with: Complete Plastic Valve Body, Brass Arm, 20mm Long Tail Adaptor and 700mm Cord and Nuts



HFFSV25L Fastflo Long Brass Arm with 25mm Long Tail Adaptor

Supplied with: Complete Plastic Valve Body, Brass Arm, 25mm Long Tail Adaptor and 700mm Cord and Nuts

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Components of the *Fast-Flo* Valve



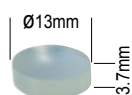
Code	Description
HFFBODY	25mm Female BSPT Valve Body



HFFPLUNGER	Sleeve Valve Plunger
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HFFCAP	Valve Body Cap
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HFFSEAL	Sleeve Valve Plunger Seal
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HFFARM	Long Brass Arm 231mm long
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HFFARMS	Short Brass Arm 129mm long
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HSFPIN20	20mm Stainless Steel Split Pin
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HCORD	700mm Cord and Nuts (for Long Brass Arm Valve only)
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HFLOAT115B	115mm Threaded Float Blue
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HFLOAT115HI	115mm Threaded Float HiViz
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Long Tail Adaptor with O-Ring Seal	
HMAL15	25mm BSPT to 15mm BSPT
HMAL20	25mm BSPT to 20mm BSPT
HMAL25	25mm BSPT to 25mm BSPT
HMAL32	25mm BSPT to 32mm BSPT







Accessories



Standard Adaptor with O-Ring Seal	
HMA15	25mm BSPT to 15mm BSPT
HMA20	25mm BSPT to 20mm BSPT
HMA25	25mm BSPT to 25mm BSPT
HMA32	25mm BSPT to 32mm BSPT
HMA40	25mm BSPT to 40mm BSPT
HMA50	25mm BSPT to 50mm BSPT

Super-Flo Trough Valve

The Hansen Super-Flo Piston Valve has been designed with multiple thread and connection combinations. To increase overall durability and versatility, the "Slipper Fit Piston" design reduces sticking and increases efficiencies. Less operating pressure is required reducing pumping costs with increased flows. Mini body design allows for easy installation across a wide range of applications and the ability to operate in clean or dirty water applications.

Code	Description
	HSFPV2520 Superflo 25/20 Supplied with: Complete Plastic Valve Body, 15, 20 & 25mm Standard Adaptors, Brass Arm, 700mm Cord and Nuts
	HSFPV2520L Superflo 25/20 Long Supplied with: Complete Plastic Valve Body, 20 & 25mm Long Tail Adaptors, Brass Arm, 700mm Cord and Nuts
	HSFPV2015L Superflo 20/15 Long Supplied with: Complete Plastic Valve Body, 15 & 20mm Long Tail Adaptors, Brass Arm, 700mm Cord and Nuts
	HSFPV2520S Superflo 25/20 Short Arm Supplied with: Complete Plastic Valve Body, 15, 20 & 25mm Standard Adaptors and Short Brass Arm
	HSFPV2520LS Superflo 25/20 Long/Short Arm Supplied with: Complete Plastic Valve Body, 20 & 25mm Long Tail Adaptors and Short Brass Arm
	HSFPV2015LS Superflo 20/15 Long/Short Arm Supplied with: Complete Plastic Valve Body, 15 & 20mm Long Tail Adaptors and Short Brass Arm

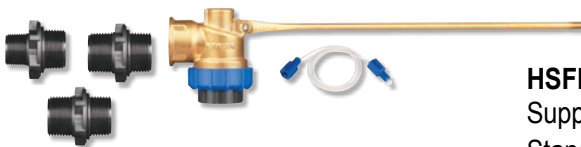





The Super-Flo Valves in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand and pending in other countries, including NZ patent 585246/585472/591800 and registered design 413594, and Australian patent application 2011202147 and registered design 334419. HANSEN is a trade mark of the Hansen group of companies.

Components of the *SuperFlo* Trough Valve

Code	Description
	HSFBODY 25mm Female BSPT Piston Valve Body
	HSFPISTON Slipper Fit Piston with O Ring
	HSFCAPF Female Body Cap Nut
	HSFCAP Valve Body Cap Nut
	HSFSEAL Valve Body Washer Seal
	HSFARM Long Brass Arm 330mm long
	HSFARMS Short Brass Arm 202mm long
	HSFPIN20 20mm Stainless Steel Split Pin
	HCORD 700mm Cord and Nuts
	HSFORING Piston O-Ring
Standard Adaptor with O-Ring Seal	
	HMA15 25mm BSPT to 15mm BSPT
	HMA20 25mm BSPT to 20mm BSPT
	HMA25 25mm BSPT to 25mm BSPT
	HMA32 25mm BSPT to 32mm BSPT
	HMA40 25mm BSPT to 40mm BSPT
	HMA50 25mm BSPT to 50mm BSPT
Long Tail Adaptor with O-Ring Seal	
	HMAL15 25mm BSPT to 15mm BSPT
	HMAL20 25mm BSPT to 20mm BSPT
	HMAL25 25mm BSPT to 25mm BSPT
	HMAL32 25mm BSPT to 32mm BSPT

Super-Flo[™] Brass Trough Valve

The Hansen Super-Flo Brass Piston Valve has been designed with multiple thread and connection combinations. To increase overall durability and versatility, the "Slipper Fit Piston" design reduces sticking and increases efficiencies. Less operating pressure is required to reduce pumping costs and increase flows. Mini body design allows for easy installation across a wide range of applications and the ability to operate in clean or dirty water applications.

	Code	Description
	HSFPV2520B	Superflo Brass 25/20 Supplied with: Complete Brass Valve Body, 15, 20 & 25mm Standard Adaptors, Brass Arm, 700mm Cord and Nuts
	HSFPV2520BL	Superflo Brass 25/20 Long Supplied with: Complete Brass Valve Body, 20 & 25mm Long Tail Adaptors, Brass Arm, 700mm Cord and Nuts
	HSFPV2015BL	Superflo Brass 20/15 Long Supplied with: Complete Brass Valve Body, 15 & 20mm Long Tail Adaptors, Brass Arm, 700mm Cord and Nuts
	HSFPV2520BS	Superflo Brass 25/20 Short Arm Supplied with: Complete Brass Valve Body, 15, 20 & 25mm Standard Adaptors and Short Brass Arm
	HSFPV2520BLS	Superflo Brass 25/20 Long/Short Arm Supplied with: Complete Brass Valve Body, 20 & 25mm Long Tail Adaptors and Short Brass Arm
	HSFPV2015BLS	Superflo Brass 20/15 Long/Short Arm Supplied with: Complete Brass Valve Body, 15 & 20mm Long Tail Adaptors and Short Brass Arm

The Super-Flo Valves in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand and pending in other countries, including NZ patent 585246/585472/591800 and registered design 413594, and Australian patent application 2011202147 and registered design 334419. HANSEN is a trade mark of the Hansen group of companies.

Components of the *SuperFlo* Brass Trough Valve

	Code	Description
	HSFBODYB	25mm Female BSPT Brass Piston Valve Body
	HSFPISTON	Slipper Fit Piston with O Ring
	HSFCAPF	Superflo Female Body Cap Nut
	HSFCAP	Valve Body Cap Nut
	HSFSEAL	Valve Body Washer Seal
	HSFARM	Long Brass Arm 330mm long
	HSFARMS	Short Brass Arm 202mm long
	HSFPIN20	20mm Stainless Steel Split Pin
	HCORD	700mm Cord and Nuts
	HSFORING	Piston O-Ring
Standard Adaptor with O-Ring Seal		
	HMA15	25mm BSPT to 15mm BSPT
	HMA20	25mm BSPT to 20mm BSPT
	HMA25	25mm BSPT to 25mm BSPT
	HMA32	25mm BSPT to 32mm BSPT
	HMA40	25mm BSPT to 40mm BSPT
	HMA50	25mm BSPT to 50mm BSPT
Long Tail Adaptor with O-Ring Seal		
	HMAL15	25mm BSPT to 15mm BSPT
	HMAL20	25mm BSPT to 20mm BSPT
	HMAL25	25mm BSPT to 25mm BSPT
	HMAL32	25mm BSPT to 32mm BSPT

Max-Flo Trough / Tank Valve

The Hansen Max-Flo Diaphragm Valve has been designed with multiple thread and connection combinations to increase overall durability and versatility. The Patent pending "Self Cleaning Pilot" ensures the valves are durable and suitable for dirty water applications. Less operating pressure is required, reducing pumping costs and increasing flow. Mini body design allows for easy installation across a wide range of applications and our 30 year time tested performance slow open and close Diaphragm ensures no undue stress is placed on pump lines or pumps.



Code	Description
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HMFDV2520	Maxflo 25/20
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Supplied with: Complete Valve Body, 20 & 25mm Standard Adaptors, Adjustable Extension Arm, 100mm Blue Flanged Float, 650mm Cord	
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HMFDV3225	Maxflo 32/25
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Supplied with: Complete Valve Body, 25 & 32mm Standard Adaptors, Adjustable Extension Arm, 100mm Blue Flanged Float, 650mm Cord	
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HMFDV2520L	Maxflo 25/20 Long
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Supplied with: Complete Valve Body, 20 & 25mm Long Tail Adaptors, Adjustable Extension Arm, 100mm Blue Flanged Float, 650mm Cord	
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HMFDV3225L	Maxflo 32/25 Long
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Supplied with: Valve Body, 25 & 32mm Long Tail Adaptors, Adjustable Extension Arm, 100mm Blue Flanged Float, 650mm Cord	
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The Max-Flo Valves in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in NZ and pending in other countries, including NZ patent applications 586567/585948 and NZ registered design 413714. HANSEN is a trade mark of the Hansen group of companies.

Components of the *MaxFlo* Valve

Code	Description
	HMFBODY 25mm Female BSPT Diaphragm Valve Body
	HMFDIA 25mm Diaphragm with Stainless Steel Spring
	HMFCAP Valve Body Cap with Guide Pin
	HMFNUT Valve Body Cap Nut
	HMFARM Short Control Arm with Arm Seal
	HMFARM Adjustable Extension Arm
	HMFSEAL Short Control Arm Seal
	HMFSCREW 2x 20mm Stainless Steel Screws
	HMFPIN25 25mm Stainless Steel Split Pin
	HFLOAT100B 100mm Flanged Blue Float
	HMFCORD 650mm Cord
Standard Adaptor with O-Ring Seal	
	HMA15 25mm BSPT to 15mm BSPT
	HMA20 25mm BSPT to 20mm BSPT
	HMA25 25mm BSPT to 25mm BSPT
	HMA32 25mm BSPT to 32mm BSPT
	HMA40 25mm BSPT to 40mm BSPT
	HMA50 25mm BSPT to 50mm BSPT
Long Tail Adaptor with O-Ring Seal	
	HMA15 25mm BSPT to 15mm BSPT
	HMA20 25mm BSPT to 20mm BSPT
	HMA25 25mm BSPT to 25mm BSPT
	HMA32 25mm BSPT to 32mm BSPT

Leveller Valve High Performance Reservoir / Tank Valve

50mm



40mm



32mm



NEW

Code

HLEVELLERS

Description

LEVELLER VALVE 32/40/50

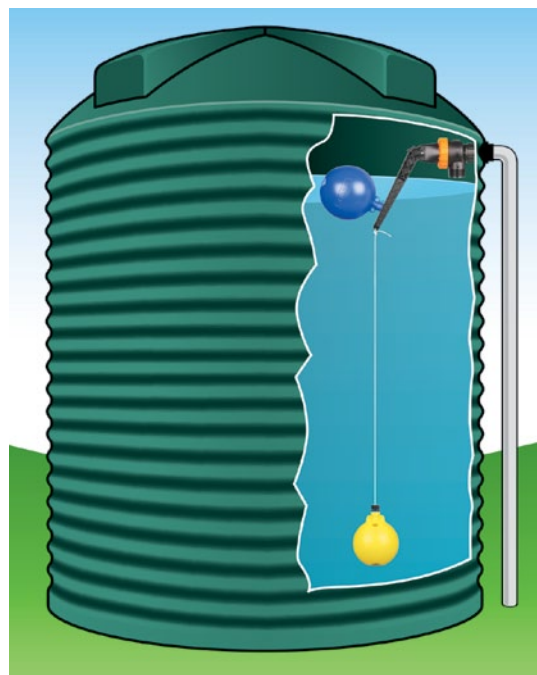
Supplied with: Complete Valve Body, 32, 40 & 50mm Standard Adaptors, Leveller Control, 115mm Weighted HiViz Threaded Ball, 140mm Blue Threaded Float, 2.5 metre Cord

Enables you to set a minimum & maximum water level when filling your tank with a pump

Leveller Valve Features and Benefits

- ✓ **Lengthen your Pumps Life with Less on/off Cycles**
- ✓ **Prevent Pump Burnout caused by Dry Tank Syndrome**
- ✓ **Combine with Rain Harvesting to take advantage of Natures Reserves**

- High performance cost effective Reservoir/Tank valve
- Adjustable Minimum and Maximum on off control (50mm - 2.5 metre)
- Suitable for High/Low pressures (0.2 Bar - 12 Bar)
- Delivers high volumes of water quickly with unrestrictive full flow (1275 l/min at 12 Bar)
- Patent pending "self cleaning pilot" for use in clean/dirty water conditions.
- Soft open and close action preventing valve bounce and water hammer
- Strong compact design
- Threaded outlet for use with a diffuser tube, ideal for high flows, eliminating turbulence
- Punch out anti-syphon holes for multi tank filling or diffuser installations
- Manufactured from strong, non corrosive UV stabilised materials



The Leveller Valve in this catalogue is protected by intellectual property rights owned by the Hansen group of companies in New Zealand and other countries, including Patented New Zealand no. 596808/600174 and registered design 415354, and Australian patent application 2012203015 and registered design 341444. HANSEN is a trade mark of the Hansen group of companies

GST not included. All prices are current at time of printing but are subject to change without notice

Components of the *Leveller* Valve

	Code	Description
	HMFBODY	25mm Female BSPT Diaphragm Valve Body
	HMFDIA	25mm Diaphragm with Stainless Steel Spring
	HLVNUTO	Valve Body Cap Nut
	HLVCAPASS	Cap Assembly (Cap, Seal, Rocker)
	HLVPHASS	Plunger Housing Assembly (Roller, Plunger, Spring, Plunger Housing)
	HLVCLAMPSET	Clamp Set (Clamp Bolt 5/16 SS, Clamp Block)
	HLVHARMASS	Housing and Arm Assembly (Housing, Arm, Pivot Tube, SS Pin)
	HLVPIN40	40mm Stainless Steel Split Pin
	HLVCORD	2.5 Metre Cord
	HFLOAT140B	140mm Threaded Blue Float
	HLVWFLOAT	115mm Weighted HiViz Threaded Ball (Weight included)
Standard Adaptor with O-Ring Seal		
	HMA15	25mm BSPT to 15mm BSPT
	HMA20	25mm BSPT to 20mm BSPT
	HMA25	25mm BSPT to 25mm BSPT
	HMA32	25mm BSPT to 32mm BSPT
	HMA40	25mm BSPT to 40mm BSPT
	HMA50	25mm BSPT to 50mm BSPT
Long Tail Adaptor with O-Ring Seal		
	HMAL15	25mm BSPT to 15mm BSPT
	HMAL20	25mm BSPT to 20mm BSPT
	HMAL25	25mm BSPT to 25mm BSPT
	HMAL32	25mm BSPT to 32mm BSPT

Valve Accessories

Dual Float Adaptor

The Dual Float Adaptor is used for attaching two floats to the brass arm of a Trough Valve. It is also used for attaching a second float to the Hansen Level Alert when using 4 extension rods.



Code

HDUALFLOATA

Description

Dual Float Adaptor

Standard Adaptor with O-Ring Seal



Code

HMA15
HMA20
HMA25
HMA32
HMA40
HMA50

Description

25mm BSPT to 15mm BSPT
25mm BSPT to 20mm BSPT
25mm BSPT to 25mm BSPT
25mm BSPT to 32mm BSPT
25mm BSPT to 40mm BSPT
25mm BSPT to 50mm BSPT

Long Tail Adaptor with O-Ring Seal



The Long Tail Adaptor is used for a Hansen Trough or Tank Valve when installing through a trough or tank wall.

HMAL15
HMAL20
HMAL25
HMAL32

25mm BSPT to 15mm BSPT
25mm BSPT to 20mm BSPT
25mm BSPT to 25mm BSPT
25mm BSPT to 32mm BSPT



Hansen Max-Flo Diaphragm Valve HMF2520 in use

Valve Floats



Code
 HFLOAT100B

Description
 100mm Flanged Float Blue fits *Max ~ Flo*
 or other valves with Cord and Nut



Code
 HFLOAT115B

Description
 115mm Threaded Float Blue fits *Super ~ Flo*
 and *Fast ~ Flo* or other valves with Brass Arm or Cord



Code
 HFLOAT140B

Description
 140mm Threaded Float Blue Fits *Super ~ Flo*
 or other valves with Brass Arm or Cord



Code
 HFLOAT230L

Description
 155mm x 230mm Long Threaded Float Blue



Code
 HFLOAT100HI

Description
 100mm Flanged Float HiViz fits *Max ~ Flo*
 or other valves with Cord and Nut



Code
 HFLOAT115HI

Description
 115mm Threaded Float HiViz fits *Super ~ Flo*
 and *Fast ~ Flo* or other valves Brass Arm or Cord



Code
 HFLOAT140HI

Description
 140mm Threaded Float HiViz fits *Super ~ Flo*
 or other valves with Brass Arm or Cord



Code
 HLVWFLOAT

Description
 115mm Weighted HiViz Threaded Ball
 (Weight included)

Quick Connect Unions



Best Installed Value

SECTION FIVE

Knuckle Union Features and Benefits

- Used to connect and disconnect pipe work or valves quickly and easily from pumps and existing installations
- Ultimate flexibility around pumps
- Quick connect/disconnect solution around pumps or along the trunk of a pipe
- 9° 'Knuckle' movement providing greater flexibility at installation time, removing the necessity of the pipe work having to line up exactly with your pump
- Pump can easily be removed or installed from system for servicing by undoing common nut
- Pump can be misaligned from pipe work by a total of 9°
- Multiple configurations enables this fitting to meet the needs of just about any situation
- Ability to connect to poly pipe applications directly from the pump or in-line
- Fits onto the extensive range of Hansen *Easy Fit & True Fit* Pipe Fittings

Barrel Union Features and Benefits

- Designed to enable Quick Connect / Disconnect around pumps, tanks, dairy sheds and irrigation
- Flat face for easy uninstal makes uninstalling pumps & pipe work a breeze!
- Strong & Compact, perfect solution for tight spaces
- When the common nut is wound off, the pipe simply 'slips down'
- Great for tight spaces that have little room for connecting & disconnecting
- Ideal for connecting and disconnecting larger pump and pipes
- Perfect for off centred pipe work
- Ability to connect / disconnect from pump or along the trunk of a pipe
- Multiple configurations enables this fitting to meet the needs of just about any situation
- Ability to connect to poly pipe applications directly from the pump or in-line
- Fits onto the extensive range of Hansen *Easy Fit & True Fit* Pipe Fittings

Standards & Approvals

AS/NZS 4020 HANSEN™ *Quick Connect* Unions from 15mm to 50mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

Fire Rating UL94HB See our website for further details.

Conversion Chart

20° Celcius – 68° Fahrenheit

KNUCKLE UNION 10 Bar - 1000 kPa. - 145 psi

BARREL UNION 16 Bar - 1600 kPa. - 235 psi

KNUCKLE UNION	BARREL UNION
1/2" = 15mm	1/2" = 15mm
3/4" = 20mm	3/4" = 20mm
1" = 25mm	1" = 25mm
1 1/4" = 32mm	1 1/4" = 32mm
	1 1/2" = 40mm
	2" = 50mm

Barrel Union



Knuckle Union



After the success of Hansen *Easy Fit* Pipe Fittings and *True Fit* Threaded Fittings the next obvious product range to add to the already extensive Hansen Range was Unions.

The Hansen *Quick Connect* Union range was added in the late 1990's and is designed and manufactured to the same high quality and principals as the rest of the Hansen range.

The Hansen *Quick Connect* Knuckle Union makes removing or installing a pump from your system a breeze as all you have to do is undo the common nut. The Knuckle Union has the added benefit of a 9 degree 'Knuckle' movement providing greater flexibility at installation time, removing the necessity of the pipe work having to line up exactly with your pump.

Manufactured for use with New Zealand Low Density Polythene Pipe with an impressive range of configurations, the Hansen *Quick Connect* Unions are suitable for many types of fluid and fits easily onto Hansen *Easy Fit* Pipe Fittings and *True Fit* Threaded Fittings.

With over 50 years experience in manufacturing, Hansen Products knows the importance that pipe fittings play in the performance and control of fluid delivery, flow and pressure within a pipe system. This has seen Hansen Products build a reputation for providing high performance, easy to use, innovative, simple products that provide our customers with "Best Installed Value". All Hansen products carry our Lifetime Warranty*

*For more information on our warranty please visit www.hansenproducts.com/legal.htm

Quick Connect Unions Assembled

Used to connect and disconnect pipe work or valves quickly and easily from pumps and existing installations. Total of 9 degrees socket movement.

Knuckle Union Assembled Units Male BSPT x Poly



Code	Metric	Imperial
KU20M20P	20mm x 20mm	3/4" x 3/4"
KU20M25P	20mm x 25mm	3/4" x 1"
KU25M20P	25mm x 20mm	1" x 3/4"
KU25M25P	25mm x 25mm	1" x 1"
KU25M32P	25mm x 32mm	1" x 1 1/4"
KU32M25P	32mm x 25mm	1 1/4" x 1"
KU32M32P	32mm x 32mm	1 1/4" x 1 1/4"

Knuckle Union Assembled Units Male BSPT x Female BSPT



KU20M20F	20mm x 20mm	3/4" x 3/4"
KU25M25F	25mm x 25mm	1" x 1"
KU32M32F	32mm x 32mm	1 1/4" x 1 1/4"

Knuckle Union Assembled Units Female BSPT x Poly



KU20F20P	20mm x 20mm	3/4" x 3/4"
KU25F25P	25mm x 25mm	1" x 1"
KU32F32P	32mm x 32mm	1 1/4" x 1 1/4"

Knuckle Union Assembled Units Poly x Poly



KU20P20P	20mm x 20mm	3/4" x 3/4"
KU25P25P	25mm x 25mm	1" x 1"
KU32P32P	32mm x 32mm	1 1/4" x 1 1/4"

Quick Connect Union Components

Used to connect and disconnect pipe work or valves quickly and easily from pumps and existing installations. Total of 9 degrees socket movement

common nut



Knuckle Union Poly Socket
(includes common nut)



Code	Metric	Imperial
KUS20P	20mm	3/4"
KUS25P	25mm	1"
KUS32P	32mm	1 1/4"

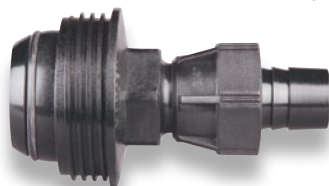
Knuckle Union Male BSPT Socket
(includes common nut)

common nut



KUS20M	20mm	3/4"
KUS25M	25mm	1"
KUS32M	32mm	1 1/4"

Knuckle Union Poly Ball



Code	Metric	Imperial
KUB20P	20mm	3/4"
KUB25P	25mm	1"
KUB32P	32mm	1 1/4"



KUB20F	20mm	3/4"
KUB25F	25mm	1"
KUB32F	32mm	1 1/4"

Quick Connect Barrel Unions

Designed to enable Quick Connect/Disconnect around Pumps, Tanks, Dairy Sheds, Industry and Irrigation.



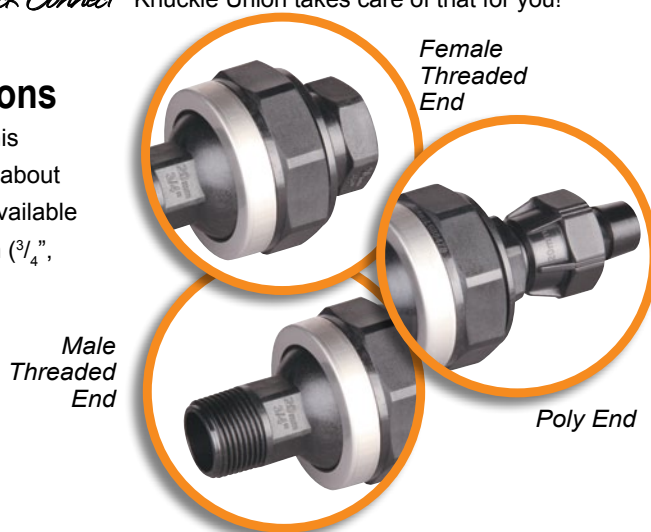
Barrel Unions BSPT	Code	Metric	Imperial
	HBU15	15mm	1/2"
	HBU20	20mm	3/4"
	HBU25	25mm	1"
	HBU2520	25mm x 20mm	1" x 3/4"
	HBU32	32mm	1 1/4"
	HBU3225	32mm x 25mm	1 1/4" x 1"
	HBU40	40mm	1 1/2"
	HBU50	50mm	2"

Hansen Knuckle Union - Ultimate Flexibility Around Pumps

The Hansen *Quick Connect* Knuckle Union is the ultimate quick connect/disconnect solution around pumps. With a flexible 'knuckle' joint of up to 9 degrees movement, now you don't have to worry if your pipe work doesn't line up exactly with your pump, the flexible Hansen *Quick Connect* Knuckle Union takes care of that for you!

Multiple Configurations

Multiple connections enables this fitting to meet the needs of just about any situation. All connections available in sizes 20mm, 25mm or 32mm (3/4", 1", 1 1/4" BSPT).



IDEAL FOR...

- Pump or pipe work off centre and needing flexibility
- Connecting to poly pipe applications directly from the pump or in-line
- Connect/disconnect from pump or along the trunk of a pipe

Hansen Barrel Union - Strong & Compact. Perfect Solution for Tight Spaces

Easy Slip Down Action makes uninstalling pumps & pipe work a breeze! When the common nut is wound off, the pipe simply 'slips down' with virtually no extra forward or backward movement required to separate the connection.

Available in sizes: 15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 25x20mm, 32x25mm. (1/2" 3/4", 1", 1 1/4", 1 1/2", 2", 1"x 3/4", 1 1/4"x1" BSP).



IDEAL FOR...

- Tight spaces that have little room for connecting & disconnecting
- Connecting and disconnecting larger pump and pipe sizes
- Where adjustment for off centred pipe work isn't a concern
- Connect/disconnect from pump or along the trunk of a pipe



Quick Couplings



Best Installed Value

SECTION SIX

Features and Benefits

- Manufactured for use with New Zealand Low Density Polyethylene Pipe
- Fits easily onto Hansen *Easy Fit* Pipe Fittings and *True Fit* Threaded Fittings
- Fast and easy to assemble and disconnect – push the pipe onto the fitting and fasten with pipe clip
- Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance
- Material Approved for use with Potable (drinkable) Water
- Fittings demonstrate excellent hydraulic flow characteristics
- Flexibility and Versatility - in new and existing installations, saving time and money
- Suitable for many types of fluid
- Low installation costs - no specialist site equipment or skilled labour required
- New Zealand Made

Conversions

20mm - 3/4"
25mm - 1"
32mm - 1 1/4"

Conversion Chart

16 Bar – 1600 kPa – 235 psi

20° Celcius – 68° Fahrenheit

Standards & Approvals

Fire Rating UL94HB

See our website for further details.



After the success of Hansen *Easy Fit* Pipe Fittings and *True Fit* Threaded Fittings the next obvious product range to add to the already extensive Hansen Range was *Quick Couplings*.

The Hansen *Quick Couplings* range was added in the late 1990's and is designed and manufactured to the same high quality and principals as the rest of the Hansen range. Manufactured for use with New Zealand Low Density Polythene Pipe, the Hansen *Quick Couplings* are suitable for many types of fluid and fits easily onto Hansen *Easy Fit* Pipe Fittings and *True Fit* Threaded Fittings.

With over 50 years experience in manufacturing, Hansen Products knows the importance that pipe fittings play in the performance and control of fluid delivery, flow and pressure within a pipe system. This has seen Hansen Products build a reputation for providing high performance, easy to use, innovative, simple products that provide our customers with "Best Installed Value". All Hansen products carry our Lifetime Warranty*

*For more information on our warranty please visit www.hansenproducts.com/legal.htm

Quick Coupling

Used for releasing pipe work quickly from male threads

Quick Release Coupling BSPT x Hose



Code	Metric	Imperial
HQC2525	25mm x 25mm	1" x 1"
HQC2520B	25mm x 20mm	1" x 3/4"
HQC3232	32mm x 32mm	1 1/4" x 1 1/4"
HQC3225	32mm x 25mm	1 1/4" x 1"

Quick Release Coupling Tail



HQCT20B	25mm x 20mm	1" x 3/4"
HQCT25B	25mm	1"
HQCT3225	32mm x 25mm	1 1/4" x 1"
HQCT32	32mm	1 1/4"

Quick Release Coupling Socket BSPT



HQCB25B	25mm	1"
HQCB32B	32mm	1 1/4"

Quick Release Rubber Seal



HQCR25	25mm	1"
HQCR32	32mm	1 1/4"

Fast Fit Tapping Saddles



Best Installed Value

SECTION SEVEN

Features and Benefits

- The spigot guarantees correct placement onto the pipe and security of seal
- The hinge opens past 180° allowing fast and easy installation in any situation.
- The hinge allows the saddle to remain as one piece which prevents loss and contamination of parts in the trench
- The custom seal with spigots guarantees correct seal placement, a visible check of correct installation with a superior seal
- The bolt stays fixed to the body ensuring quick and easy installation and no lost parts
- The pilot hole in the base ensures correct hole placement
- Designed and manufactured with extra bolt holes on the larger sized saddles for peace of mind
- Common Stainless Steel M8 bolt on all sizes means only one tool required
- Packaging has all the information required for ease of purchase i.e. pipe size & type, thread DN, hole saw size etc
- Strong, compact design, manufactured from strong, non-corrosive UV stabilised materials for a long life

SPIGOT: The spigot helps locate and secure the Hansen *Fast Fit* Tapping Saddle onto the pipe, reducing loss of seal if the pipe or saddle move under load.

HINGE: The ability to open past 180° degrees makes it an excellent choice for tight spots. The hinge stays connected for a fast, easy, one piece installation.

BOLTS: Only one bolt required which is fixed to the body ensuring no lost parts and the common Stainless Steel M8 bolt on all sizes means only one tool is required for installation - a major time saver. Larger sizes can have up to three bolts if preferred.

CUSTOM SEAL: Small spigots on the internal seal that are visible from the outside help locate it correctly and removes any second guessing if the seal has been installed or not.

PILOT HOLE: A pilot hole located at the base of each saddle makes installation easy



Hansen Products has been designing and manufacturing Pipe Fittings and Valves for over 50 years and now boasts an extensive and impressive range with a reputation for quality, reliability and ease of use. The winning formula that has been applied to the product range since the 1950's has ensured a loyal customer following through the generations.

With a range of over 700 different products, loyal customers and a successful formula, Hansen Products decided to release a range of *Fast Fit* Tapping Saddles that would revolutionise the way people tee off the main pipeline. The *Fast Fit* Tapping Saddle has a number of features that make it the saddle of choice such as a Custom Seal that is visible from the outside so you know instantly that the seal is in place, a Pilot Hole for easy installation, a Hinge which also stays connected for fast easy one piece installation and opens past 180° degrees for tight spots, a Spigot to help locate and secure it onto the pipe and best of all only one Stainless Steel M8 bolt which is fixed to the body to avoid lost parts with the same size bolt used on the entire range which means only one tool is required. Put all of this together and you have the solution for a fast, no hassle installation.

With over 50 years experience in manufacturing, Hansen Products knows the importance that pipe fittings play in the performance and control of fluid delivery, flow and pressure within a pipe system. This has seen Hansen Products build a reputation for providing high performance, easy to use, innovative, simple products that provide our customers with "Best Installed Value". All Hansen products carry our Lifetime Warranty*

*For more information on our warranty please visit www.hansenproducts.com/legal.htm

Fast Fit Tapping Saddles

Hansen Products' range of Tapping Saddles have revolutionised the way people tee off the main pipeline.

Tapping Saddle
Low Density
LD x BSPT



Code	Metric	Seal Number	Imperial
HTSLD2525	25mm x 25mm	4	1" x 1"
HTSLD3225	32mm x 25mm	3	1 1/4" x 1"
HTSLD3232	32mm x 32mm	3	1 1/4" x 1 1/4"
HTSLD4025	40mm x 25mm	2	1 1/2" x 1"
HTSLD4032	40mm x 32mm	2	1 1/2" x 1 1/4"
HTSLD4040	40mm x 40mm	2	1 1/2" x 1 1/2"
HTSLD5025	50mm x 25mm	1	2" x 1"
HTSLD5032	50mm x 32mm	1	2" x 1 1/4"
HTSLD5040	50mm x 40mm	1	2" x 1 1/2"
HTSLD5050	50mm x 50mm	1	2" x 2"

Tapping Saddle
Medium Density
MD x BSPT



Code	Metric	Seal Number	Imperial	Reducing Bush
HTSMD3225	32mm x 25mm	4	1 1/4" x 1"	SRB3225, 32mm x 25mm
*HTSMD4025	40mm x 25mm	3	1 1/2" x 1"	
HTSMD4032	40mm x 32mm	3	1 1/2" x 1 1/4"	
*HTSMD5025	50mm x 25mm	2	2" x 1"	SRB4025, 40mm x 25mm
*HTSMD5032	50mm x 32mm	2	2" x 1 1/4"	SRB4032, 40mm x 32mm
HTSMD5040	50mm x 40mm	2	2" x 1 1/2"	
HTSMD6320	63mm x 20mm	1	2 1/2" x 3/4"	
*HTSMD6325	63mm x 25mm	1	2 1/2" x 1"	
*HTSMD6332	63mm x 32mm	1	2 1/2" x 1 1/4"	SRB5032, 50mm x 32mm
*HTSMD6340	63mm x 40mm	1	2 1/2" x 1 1/2"	SRB5040, 50mm x 40mm
HTSMD6350	63mm x 50mm	1	2 1/2" x 2"	

* Includes Hansen Reducing Bush

Tapping Saddle
Rural B
Rural B x BSPT



Code	Metric	Seal Number	Imperial
HTSRB2525	25mm x 25mm	4	1" x 1"
HTSRB3225	32mm x 25mm	3	1 1/4" x 1"
HTSRB3232	32mm x 32mm	3	1 1/4" x 1 1/4"
HTSRB4025	40mm x 25mm	2	1 1/2" x 1"
HTSRB4032	40mm x 32mm	2	1 1/2" x 1 1/4"
HTSRB4040	40mm x 40mm	2	1 1/2" x 1 1/2"
HTSRB5025	50mm x 25mm	1	2" x 1"
HTSRB5032	50mm x 32mm	1	2" x 1 1/4"
HTSRB5040	50mm x 40mm	1	2" x 1 1/2"
HTSRB5050	50mm x 50mm	1	2" x 2"

The Tapping Saddles in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia and other countries, including NZ patent application 595727 and registered design 412373, Australian patent application 2010202392 and registered design 329136 and European Community registered design 1182489. HANSEN is a trade mark of the Hansen group of companies.

Fast Fit Tapping Saddles Seals



Fast-Fit "Patent Pending"
Indicator Multi Seal

Code	Saddle	Pipe	Description
HTSSEAL1	63x50	MD	Fits 63MDPE x 50mm BSPT
HTSSEAL1	63x40	MD	Fits 63MDPE x 40mm BSPT
HTSSEAL1	63x32	MD	Fits 63MDPE x 32mm BSPT
HTSSEAL1	63x25	MD	Fits 63MDPE x 25mm BSPT
HTSSEAL1	50x50	LD/Enduroflex/Rural B	Fits 50MDPE x 50mm BSPT
HTSSEAL1	50x40	LD/Enduroflex/Rural B	Fits 50MDPE x 40mm BSPT
HTSSEAL1	50x32	LD/Enduroflex/Rural B	Fits 50MDPE x 32mm BSPT
HTSSEAL1	50x25	LD/Enduroflex/Rural B	Fits 50MDPE x 25mm BSPT
HTSSEAL2	50x40	MD	Fits 50MDPE x 40mm BSPT
HTSSEAL2	50x32	MD	Fits 50MDPE x 32mm BSPT
HTSSEAL2	50x25	MD	Fits 50MDPE x 25mm BSPT
HTSSEAL2	40x40	LD/Enduroflex/Rural B	Fits 40MDPE x 40mm BSPT
HTSSEAL2	40x32	LD/Enduroflex/Rural B	Fits 40MDPE x 32mm BSPT
HTSSEAL2	40x25	LD/Enduroflex/Rural B	Fits 40MDPE x 25mm BSPT
HTSSEAL3	40x32	MD	Fits 40MDPE x 32mm BSPT
HTSSEAL3	40x25	MD	Fits 40MDPE x 25mm BSPT
HTSSEAL3	32x32	LD	Fits 32MDPE x 32mm BSPT
HTSSEAL3	32x25	LD	Fits 32MDPE x 25mm BSPT
HTSSEAL3	32x32	Enduroflex/Rural B	Fits 32MDPE x 32mm BSPT
HTSSEAL3	32x25	Enduroflex/Rural B	Fits 32MDPE x 25mm BSPT
HTSSEAL4	32x25	MD	Fits 32MDPE x 25mm BSP T
HTSSEAL4	25x25	LD	Fits 25MDPE x 25mm BSPT
HTSSEAL4	25x25	Enduroflex/Rural B	Fits 25MDPE x 25mm BSPT

AVAILABLE NOW



What is an Irripod Effluent System

- Irripod Effluent Systems are flexible cost effective Pod Pipeline Systems for Effluent Distribution.
- Designed to operate at low pressure. The Irripod Effluent System distributes liquid effluent on a slow absorption rate over a 12-24 hour period. This allows for effective absorption into the soil whilst eliminating pooling and run off.
- The Irripod Effluent System is a component system that is simple to install and manage.
- The Irripod Effluent System utilizes Protective Pod Skid covers over sprinklers that are attached to a 45mm Effluent Pipeline.
- The Irripod Effluent System can be configured to suit individual requirements depending on the application rates, the distance to be irrigated and the rotation intervals appropriate for the situation.
- Each Irripod Effluent System can be customised to suit varying paddock sizes and shapes while also accommodating existing obstructions.
- Irripod Effluent Systems are strong, lightweight and flexible.
- Easily moved by attaching the Hydrant or Pod lines to an ATV or farm vehicle.
- The Irripod Effluent System is designed to Distribute Liquid Effluent. (solid materials separated via a Dual Pond System or Solid Separator, Not Included)

NOTE: The Irripod Effluent System has been designed to distribute liquid effluent only, it is important to remove solid materials.

What is an Irripod Irrigation System

- Irripod Plus is a flexible, cost effective pipeline sprinkler irrigation system for pasture and forage crops.
- Designed to operate at low pressure Irripod Plus distributes water on a slow absorption rate over a 12-24-hour period. This allows for effective absorption into the soil whilst eliminating pooling and run off. The system only requires movement once per 12-24 hour period.
- Irripod Plus is a component system that is simple to install and manage. The system utilises protective Pod Skid covers over sprinklers that are attached to an irrigation pipeline. Irripod Plus can be configured to suit individual requirements dependant on application rates, the distance to be irrigated and the rotation intervals appropriate for the situation. Each Irripod irrigation line can be customised to suit varying paddock sizes and shapes while also accommodating existing obstructions
- Irripod irrigation lines are strong, lightweight and flexible, easily moved while the system is operating by attaching the lines to an ATV or farm vehicle.
- The flexibility of Irripod Plus means the system can be configured for many different end uses in addition to traditional pasture and forage crop irrigation; these include orchards, golf courses, sports fields, race tracks, dust suppression in developing housing sub-divisions and bush fire protection.

FREE DVD INFO PACK

Simply visit www.irripod.com to order your **FREE** Irripod DVD info pack today!





Complete Irripod



Complete White Irripod
Includes Tapping Saddle
Kits & Sprinkler Riser
(Sprinkler Sold Separately)

Code & Description

IRRW32LACME

White Pod Cover, Black Base, 32mm LDPE Tapping Saddle Kit,
Low Riser ACME

IRRW32L15FM

White Pod Cover, Black Base, 32mm LDPE Tapping Saddle Kit,
Low Riser 15mm Female BSP

IRRW32H15FM

White Pod Cover, Black Base, 32mm LDPE Tapping Saddle Kit,
High Riser 15mm Female BSP

IRRW40LACME

White Pod Cover, Black Base, 40mm LDPE Tapping Saddle Kit,
Low Riser ACME

IRRW40L15FM

White Pod Cover, Black Base, 40mm LDPE Tapping Saddle Kit,
low Riser 15mm Female BSP

IRRW40L20M

White Pod Cover, Black Base, 40mm LDPE Tapping Saddle Kit,
Low Riser 20mm Male BSP (Inc SS20)

IRRW40H15FM

White Pod Cover, Black Base, 40mm LDPE Tapping Saddle Kit,
High Riser 15mm Female BSP

IRRW45L15FM

White Pod Cover, Black Base, 45mm LDPE Tapping Saddle Kit,
Low Riser 15mm Female BSP

IRRW45L20M

White Pod Cover, Black Base, 45mm LDPE Tapping Saddle Kit,
Low Riser 20mm Male BSP (Inc SS20)

IRRW45H15FM

White Pod Cover, Black Base, 45mm LDPE Tapping Saddle Kit,
High Riser 15mm Female BSP

Complete Irripod



Complete Black Irripod
Includes Tapping Saddle Kits
& Sprinkler Riser
(Sprinkler Sold Separately)

Code & Description

IRRB32LACME

Black Pod Cover, Black Base, 32mm LDPE Tapping saddle kit,
Low Riser ACME

IRRB32L15FM

Black Pod Cover, Black Base, 32mm LDPE Tapping saddle kit,
Low Riser 15mm Female BSP

IRRB32H15FM

Black Pod Cover, Black Base, 32mm LDPE Tapping saddle kit,
High Riser 15mm Female BSP

IRRB40LACME

Black Pod Cover, Black Base, 40mm LDPE Tapping saddle kit,
Low Riser ACME

IRRB40L15FM

Black Pod Cover, Black Base, 40mm LDPE Tapping saddle kit,
Low Riser 15mm Female BSP

IRRB40L20M

Black Pod Cover, Black Base, 40mm LDPE Tapping saddle kit,
Low Riser 20mm Male BSP (Inc SS20)

IRRB40H15FM

Black Pod Cover, Black Base, 40mm LDPE Tapping saddle kit,
High Riser 15mm Female BSP

IRRB45L15FM

Black Pod Cover, Black Base, 45mm LDPE Tapping saddle kit,
Low Riser 15mm Female BSP

IRRB45L20M

Black Pod Cover, Black Base, 45mm LDPE Tapping saddle kit,
Low Riser 20mm Male BSP (Inc SS20)

IRRB45H15FM

Black Pod Cover, Black Base, 45mm LDPE Tapping saddle kit,
High Riser 15mm Female BSP

Irripod Body and Base



Code & Description

IRRIPOD-BL

Black Pod Cover & Black Base to suit 32,40,45mm Pipe



IRRIPOD-WH

White Pod Cover & Black Base to suit 32,40,45mm Pipe



IRRIPOD-LI

Lilac Pod Cover & Black Base to suit 45mm Effluent Pipe

Irripod Tapping Saddle Kits To Suit 32, 40 or 45mm Pod Pipe



Code & Description

TSK32-40LDU

Tapping Saddle Kit to suit 32-40mm LD Pipe with U-Bolts

TSK40-45LDU

Tapping Saddle Kit to suit 40-45mm LD Pipe with U-Bolts

Irripod U-Bolt Tapping Saddle Kits for 32, 40 or 45mm LDPE Pipe contains:

1 x Cross Tee Anchor

1 x Wire Protector

2 x Wire Retainer Clips

1 x Irripod Tapping Saddle Seal

Irripod U-Bolt Bag (2 x M8 x 65mm Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)

1 x Irripod Screw Bag (6 x 10g Pozi Pan Head Self Tapping Stainless Steel Screws)



Code & Description

TSK40-45USS

Tapping Saddle Kit 40-45mm with U-Bolts & Stainless Steel Bar

Irripod U Bolt Tapping Saddle Kit for 40 or 45mm LDPE Pipe with a Stainless Steel Wire Protector contains:

1 x Cross Tee Anchor 40-45mm LDPE

1 x Stainless Steel Wire Protector

2 x Wire Retainer Clips

1 x Irripod Tapping Saddle Seal

Irripod U Bolt Bag (2 x M8 x 65mm Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)

1 x Irripod Screw Bag (6 x 10g Pozi Pan Head Self Tapping Stainless Steel Screws)



Code & Description

POPKIT40LDU

40mm Pop Up Tapping Saddle Kit with U-Bolts

Irripod Pop Up Tapping Saddle Kit for 40mm LDPE Pipe contains:

1 x Cross Tee Anchor 32-40mm LDPE

1 x Pop Up Tapping Saddle Body 40mm LDPE

1 x Pop Up Piston

1 x Pop Up Screw Cap

1 x Pop Up Pod Cover

1 x Pop Up Screw Cap Seal

2 x Wire Retainer Clips

1 x Irripod Tapping Saddle Seal

1 x Irripod Wire Protector

1 x O-Ring

1 x Irripod U Bolt Bag (2 x M8 x 65mm Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)

1 x Irripod Screw Bag (6x10g, 4x6g Pozi Pan Head Self Tapping Stainless Steel Screws)



Code & Description

SINGLEKITU

20mm Single Pod Kit BSP with U-Bolts

Irripod Single Pod Tapping Saddle Kit for 20mm LDPE Pipe contains:

1 x Handle 20mm Female x 25mm Male

2 x Wire Retainer Clips

1 x 20mm Hansen Socket

1 x 20mm Hansen Hex Nipple

1 x Irripod Wire Protector

1 x Irripod Screw Bag (6x10g, 2 x 12g Pozi Pan Head Self Tapping Stainless Steel Screws)

1 x Irripod U Bolt Bag (2 x M8 x 65mm Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)

Hydropod Tapping Saddle Kits

Hydropod Tapping Saddle Kit

Code & Description

TSKHYDROU

Tapping Saddle Kit Hydro 32-40mm LD U-Bolt



Hydropod U Bolt Tapping Saddle Kit contains:

1 x Cross Tee Anchor 32-40mm LDPE

1 x Irripod Tapping Saddle Seal

1 x Irripod U Bolt Bag (2 x M8 x 65mm Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)



White Irripod 45mm system running

Irripod Tapping Saddle Tops to suit 32, 40 or 45mm Pod Pipe, 15 or 20mm Sprinklers

For use with Riser to suit Impact or Gear Drive Sprinklers



Code & Description

TST32LDL15F

Tapping Saddle Top 32mm LD Low Riser 15mm Female BSP

TST40LDL15F

Tapping Saddle Top 40mm LD Low Riser 15mm Female BSP

TST45LDL15F

Tapping Saddle Top 45mm LD Low Riser 15mm Female BSP



For use with 5022 Nann Impact Sprinkler or Similar

Code & Description

TST32LDH15F

Tapping Saddle Top 32mm LD High Riser 15mm Female BSP

TST40LDH15F

Tapping Saddle Top 40mm LD High Riser 15mm Female BSP

TST45LDH15F

Tapping Saddle Top 45mm LD High Riser 15mm Female BSP



*Comes with
1 x O-Ring*

For use with Nelson R2000 Sprinkler or Similar

Code & Description

TST32LDLAC

Tapping Saddle Top 32mm LD Low Riser ACME

TST40LDLAC

Tapping Saddle Top 40mm LD Low Riser ACME



*Comes with
1 x 20mm Hansen Socket*

For use with any 20mm Impact or Gear Drive Sprinklers

Code & Description

TST40LDL20M

Tapping Saddle Top 40mm LD Low Riser 20mm Male BSP

TST45LDL20M

Tapping Saddle Top 45mm LD Low Riser 20mm Male BSP

Regulator or Riser Spacers



Code & Description

ACME-F-MA

ACME Female BSP Medium Riser

For use with ACME Low Base with Impact Sprinkler



ACME-MF-HA

ACME Male/Female High Riser (comes with O-Ring)

Use with ACME Low Base, replaces Nelson regulator



ACME-MM-LA

ACME Male/Male BSP Low Riser (comes with O-Ring)

Converts BSP Low Base to ACME Thread

Pod Pipe



Code & Description

IP32100

32mm LDPE Pipe, 100 metres

IP32200

32mm LDPE Pipe, 200 metres

IP40100

40mm LDPE Pipe, 100 metres

IP40200

40mm LDPE Pipe, 200 metres

IRRIPOD45100

45mm LDPE Pipe, 100 metres

IRRIPOD45200

45mm LDPE Pipe, 200 metres



2230.45.PN5.100

45mm Effluent Pipe, 100 metres

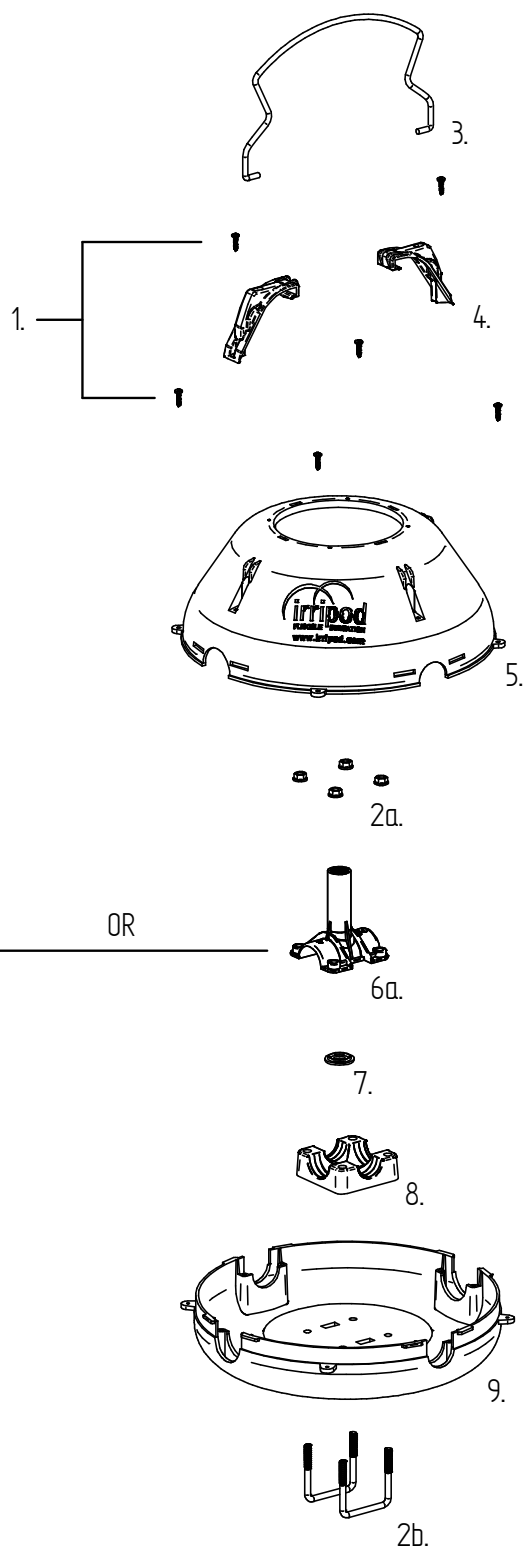
2230.45.PN5.200

45mm Effluent Pipe, 200 metres

Exploded View of Pod Assembly 32mm or 40mm Pipe, 15mm Sprinkler

No.	Product Code	Item Name	Qty
	Screw Bag Contains		
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
	Bolt Bag Contains		
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	IP-UBOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	IP-COVER-WH	Irripod White Top Cover	1
6a	TST32LDH15F	32mm LD High Riser	1
6b	TST40LDH15F	40mm LD High Riser	1
7	IP-SEAL	Seal	1
8	CTA32-40LD	Irripod Cross Tee Anchor 32-40 LDPE	1
9	IP-BASE-BLK	Irripod Black Base	1

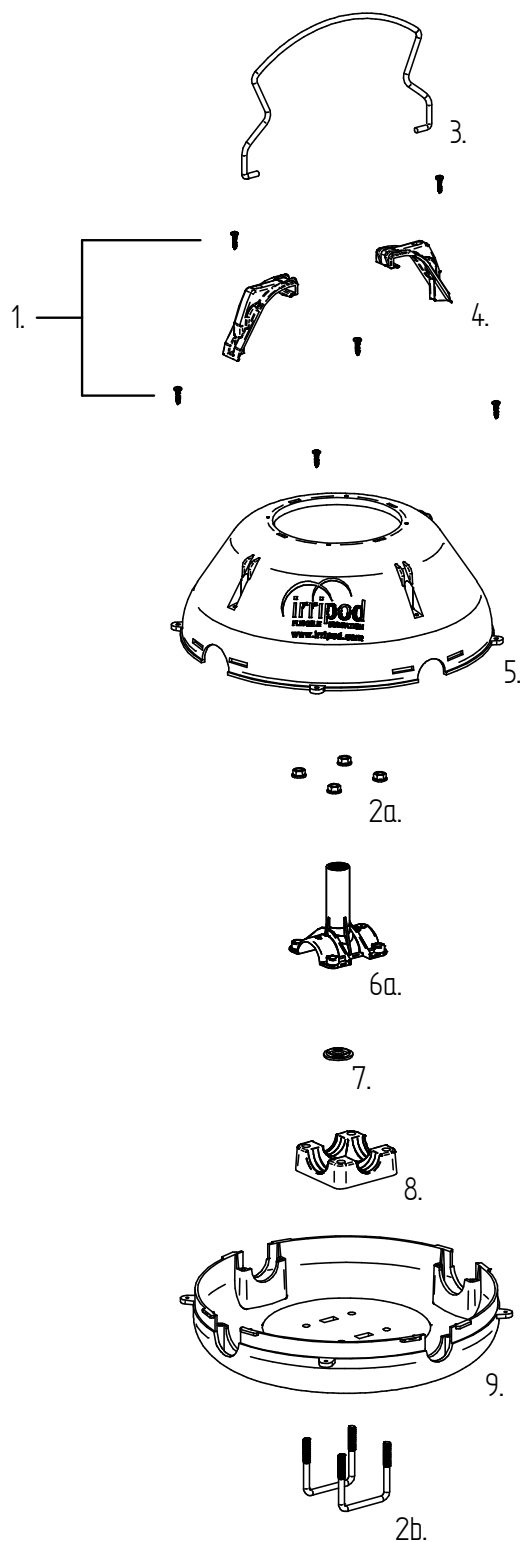
Items 1, 2a-2b, 3, 4, 7 and 8 are included in TSK32-40LDU.



Exploded View of Pod Assembly 45mm, fits 15mm Sprinkler Pod

No.	Product Code	Item Name	Qty
	Screw Bag Contains		
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
	Bolt Bag Contains		
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	IP-UBOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	IP-COVER-WH	Irripod White Top Cover	1
6	TST45LDH15F	45mm LD High Riser	1
7	IP-SEAL	Seal	1
8	CTA40-45LD	Irripod Cross Tee Anchor 40-45 LDPE	1
9	IP-BASE-BLK	Irripod Black Base	1

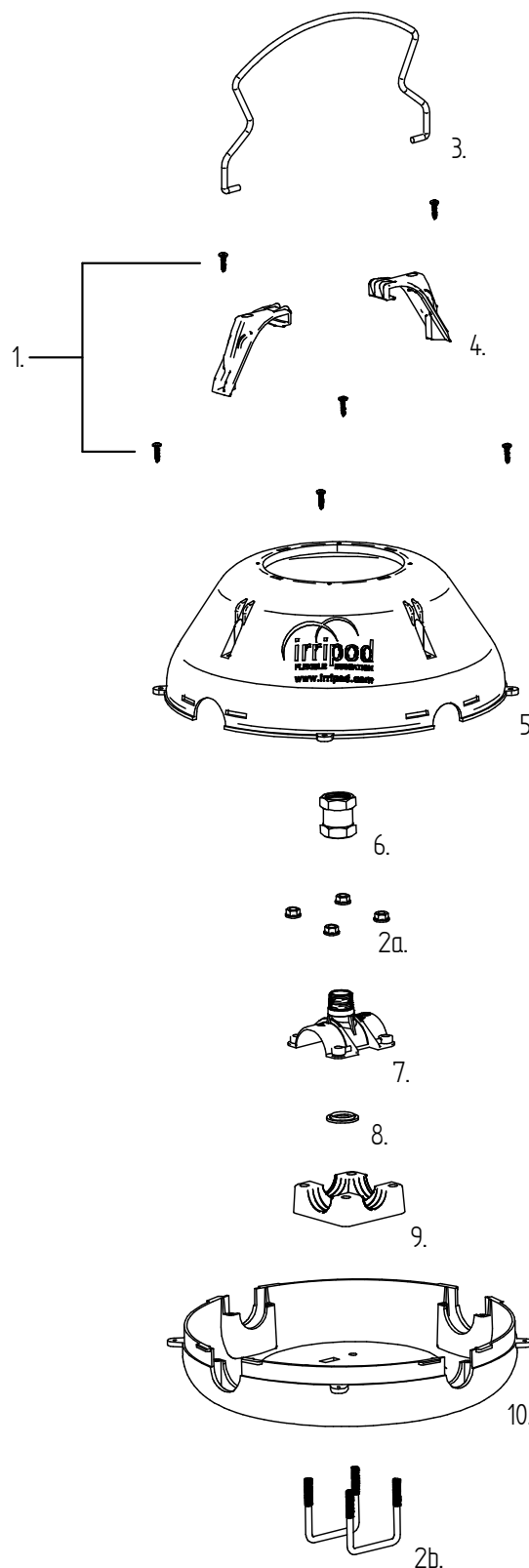
Items 1, 2a-2b, 3, 4, 7 and 8 are included in TSK40-45LDU.



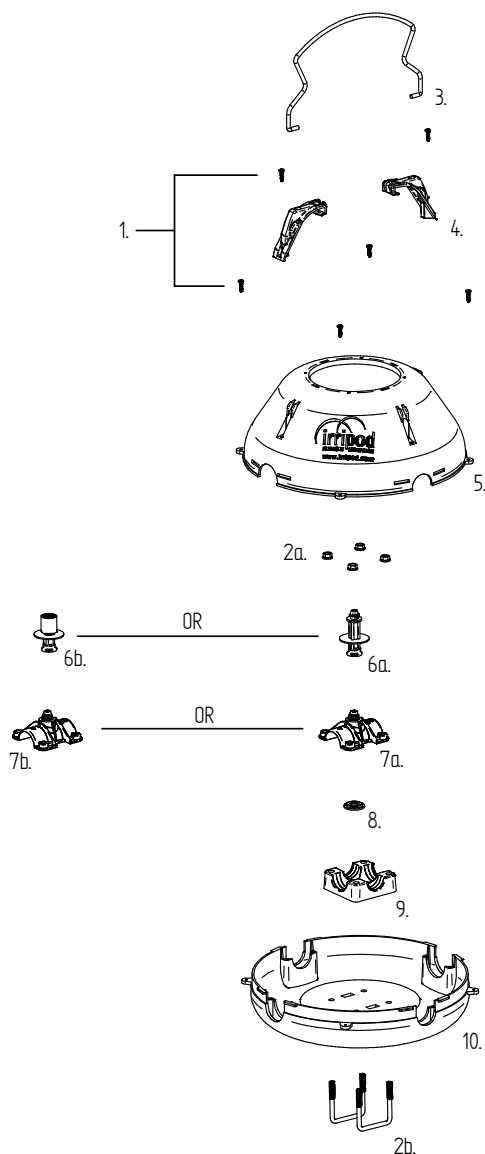
Exploded View of Pod Assembly 45mm Pipe, 20mm Sprinkler

No.	Product Code	Item Name	Qty
	Screw Bag Contains		
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
	Bolt Bag Contains		
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	IP-UBOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	IP-COVER-WH	Irripod White Top Cover	1
6	SS20	20mm Hansen Socket	1
7	TST45LDL20M	45mm LD Low Riser	1
8	IP-SEAL	Seal	1
9	CTA40-45LD	Irripod Cross Tee Anchor 40-45 LDPE	1
10	IP-BASE-BLK	Irripod Black Base	1

Items 1, 2a-2b, 3, 4, 8 and 9 are included in TSK40-45LDU.



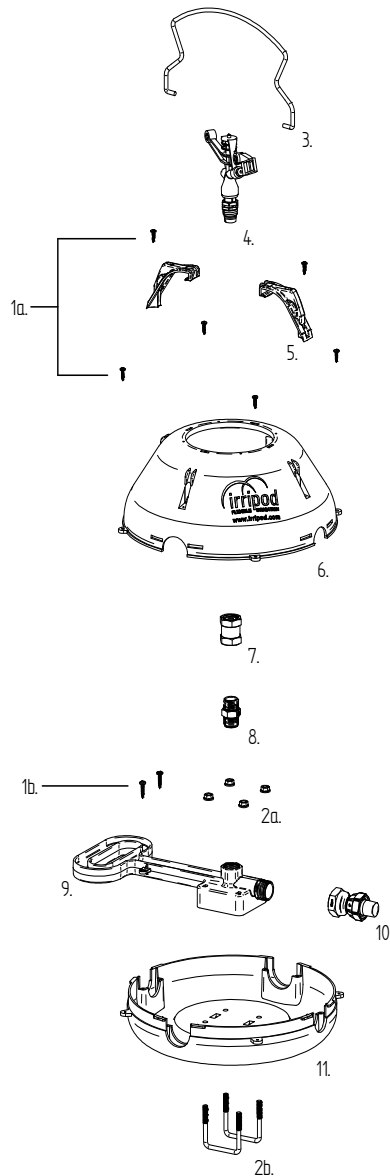
Exploded View of Irripod Multi Fit Pod



No.	Product Code	Item Name	Qty
Screw Bag Contains			
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
Bolt Bag Contains			
2a	IP-BOLTS	M8 Flanged Nuts	4
2b	IP-BOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	IP-COVER-BL	Irripod Black Top Cover	1
6a	ACME-MF-HA	ACME Male-Female High Adaptor	1
6b	ACME-F-MA	ACME-BSP Female Medium Adaptor	1
7a	TST32LDLAC	32mm LD Low Riser ACME	1
7b	TST40LDLAC	40mm LD Low Riser ACME	1
8	IP-SEAL	Seal	1
10	CTA32-40LD	Irripod Cross Tee Anchor 32-40 LDPE	1
11	IP-BASE-BLK	Irripod Black Base	1

Items 1, 2a-2b, 3, 4, 8 and 9 are included in TSK32-40LDU.

Exploded View of Irripod Single Pod



No.	Product Code	Item Name	Qty
Screw Bag Contains			
1a	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
1b	IP-SCREWS	Large Self Tapper (12 x 1)	2
Bolt Bag Contains			
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	M8U-BOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	A329	Senninger 4023 Sprinkler (Packed Separately)	1
5	IP-WIRECLIP	Irripod Wire Retainer Clips	2
6	IP-COVER-BL	Irripod Black Top Cover	1
7	SS20	20mm Hansen Socket	1
8	SHN20	20mm Hansen Nipple	1
9	HANDLE25	Handle 20mm Female x 25mm Male	1
10	HFS25	25mm Hansen Female Straight Coupling	1
11	IP-BASE-BLK	Irripod Black Base	1

Items 1a-1b, 2a-2b, 3, 4, 6 and 8 are included in SINGLEKITU.

Retail Packs

Irripod Single Pod 25 Metre Kit

Irripod Single Pod Kit is a versatile, strong, portable Sprinkler Irrigation System. The Single Pod sprinkler is ideally suited to fit in small paddocks or irregular shaped areas where it is difficult to fit traditional irrigation systems. Irripod Single Pod Sprinkler is designed to operate off a standard 19mm garden hose or 20mm Polyethylene Pipe, has a coverage area of 500 sqm and an intensity rate of 2.6mm per hour, with the ability to operate at very low pressures (3 Bar).

Code & Description

SINGLE25M Single Pod 25 Metre Kit

Irripod 25 Metre Single Pod Kit contains:

- 1 x Black Pod and Base
- 1 x Senninger 4023 Sprinkler
- 1 x Wire Protector
- 2 x Wire Retainer Clips
- 1 x Handle 20mm Female x 25mm Male
- 1 x 25mm Hansen Female Straight
- 1 x 20mm Hansen Hex Socket
- 1 x 20mm Hansen Hex Nipple
- 1 x Irripod Screw Bag (6 x 10g, 2x12g Pozi Pan Head Self Tapping Stainless Steel Screws)
- 1 x Irripod U Bolt Bag (2 x M8 x 65mm Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)



Irripod Multi Fit Single Pod Kit

Irripod Multi Fit Single Pod Kit is a flexible, cost effective Irrigation Pod Skid that can be used as a replacement Pod or as an extension to existing sprinkler irrigation systems. Designed to fit 32mm or 40mm LDPE pipe and to accommodate all LDPE fitting and sprinkler configurations.

Code & Description

MULTIPOD Multi Fit Single Pod Kit

Irripod Multi Fit Single Pod Kit contains:

- 1 x Black Pod and Base
- 1 x Wire Protector
- 2 x Wire Retainer Clips
- 1 x Irripod Tapping Saddle Seal
- 1 x Cross Tee Anchor 32-40 LDPE
- 1 x 32mm ACME Tapping Saddle Top
- 1 x 40mm ACME Tapping Saddle Top
- 1 x 32mm ACME LD Low Riser with O-Ring
- 1 x 15mm x 15mm ACME Male/Female High Riser with O-Ring
- 1 x 15mm x 15mm ACME Female BSP Medium Riser
- 1 x Irripod U Bolt Bag (2 x M8 Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)
- 1 x Irripod Screw Bag (6x10g Pozi Pan Head Self Tapping Stainless Steel Screws)



Irripod Effluent Systems

Code & Description

EFFLUENTSYS

Effluent System Part A,B,C,D



Effluent System Set contains:

- 1 x Part A - 90mm Adaptor Set
- 1 x Part B - Sub Main Set
- 1 x Part C - Pod Hydrants
- 3 x Part D - Pod Sprinkler Lines

Code & Description

EFFLUENT-A

Effluent 90mm Adaptor



Irripod Effluent 90mm Adaptor Set is used to attach a 90mm Effluent Pipeline to the 45mm Sub Main Set (Part B)

Contains:

- 1 x Hansen 80mm Male Camlock Threaded Adaptor
- 1 x Hansen 100mm Female Elbow
- 1 x Hansen 100 x 50mm Reducing Bush
- 1 x Hansen 100 x 80mm Reducing Bush
- 2 x Hansen 50mm Hex Nipples
- 1 x Hansen 50mm Lilac Ball Valve
- 1 x 50mm Female Camlock PP
- 2 x 1/2" Thread Tape

Packaging 1 x Box

Code & Description

EFFLUENT-B

Effluent Sub Main Set



Irripod Effluent Sub Main Set is used to attach to the Adaptor Set (Part A)

Contains:

- 2 x Hansen 45mm Camlock with Lilac Nut
- 1 x 50mm Female Camlock PP
- 1 x Hansen 50mm Tow Eye BSPT
- 1 x Effluent Pipe 45mm x 50m Lilac coded
- 1 x Yellow Tow Ball
- 1 x Tow Rope 2 metre spliced ends
- 2 x 1/2" Thread Tape

Packaging 1 x Box & 1 x Coil of Pipe



Code & Description

EFFLUENT-C

Effluent Pod Hydrants

Irripod Effluent Pod Hydrants are attached to the Effluent Pipe at 20m intervals to distribute the Effluent to the Pod Sprinkler Lines.

Contains:

- 3 x Irripod Low Bases
- 12 x M8 x 25 Stainless Steel Cap Screws
- 3 x Hansen Manifold Block 50mm 4 Way BSP
- 6 x Hansen 50mm Hex Nipples
- 6 x Hansen 45mm Male Straight Coupling with Lilac Nut
- 6 x Hansen 50mm Lilac Ball Valves BSP
- 6 x 50mm Male Camlock PP
- 3 x 1/2" Thread Tape

Packaging 1 x Box



Code & Description

EFFLUENT-D Effluent Pod Lines

Part D - Pod Sprinkler Lines

Irripod Effluent Pod Sprinkler Lines are attached to the Effluent Pipe at 20m intervals to distribute the Effluent.

Contains:

- 6 x Lilac Pods with Black Bases
- 6 x 20mm Senninger 4023 Sprinkler
- 6 x Irripod 45mm LDPE Low Riser 20mm Male BSP Tapping Saddle Tops
- 6 x Hansen 20mm Sockets
- 2 x Hansen 45mm Camlock with Lilac Nut
- 1 x 50mm Female Camlock PP
- 1 x Hansen 50mm Tow Eye BSPT
- 1 x Irripod Effluent Pipe 45mm x 120m Lilac coded
- 1 x Yellow Tow Ball
- 1 x Tow Rope 2 Metre Spliced Ends
- 6 x Cross Tee Anchor 40-45mm LDPE
- 6 x Wire Protectors
- 12 x Wire Retainer Clips
- 6 x Tapping Saddle Seals
- 6 x Irripod Screw Bags (6 x 10g Pozi Pan Head Self Tapping Stainless Steel Screws)
- 6 x Irripod U-Bolt Bags (2 x M8 x 65mm Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)

Packaging 1x Box and 1x Coil of 45mm Effluent Pipe

Irripod Accessories

For use with LDPE Poly Pod Pipe



Tow Eye
Poly x Tow Eye
LDPE Pipe

Code & Description

PODTE32	32mm Tow Eye LDPE Pipe
PODTE40	40mm Tow Eye LDPE Pipe
PODTE45	45mm Tow Eye LDPE Pipe



PODTE45/50	50mm BSP Threaded Tow Eye
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Tow Eye
NPT x Tow Eye

PODTE50NPT	50mm NPT Threaded Tow Eye
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NPT Products are a non stock item, available on request

Straight Coupling
Poly x Poly



For use with LDPE Poly Pod Pipe

Code	Metric	Imperial
HS32	32mm x 32mm	1 1/4" x 1 1/4"
HS40	40mm x 40mm	1 1/2" x 1 1/2"
HS45	45mm x 45mm	1 3/4" x 1 3/4"

Reducing Straight Coupling
Poly x Poly



For use with LDPE Poly Pod Pipe

Code	Metric	Imperial
HRS4032	40mm x 32mm	1 1/2" x 1 1/4"
HRS4540	45mm x 40mm	1 3/4" x 1 1/2"

Male Straight Coupling
BSPT x Poly



For use with LDPE Poly Pod Pipe

Code	Metric	Imperial
HMS32	32mm x 32mm	1 1/4" x 1 1/4"
HMS40	40mm x 40mm	1 1/2" x 1 1/2"
HMS45	50mm x 45mm	2" x 1 3/4"

Female Straight Coupling
BSPT x Poly



Code

HFS32

HFS40

HFS40NPT

Metric

32mm x 32mm

40mm x 40mm

40mm x 40mm NPT

Imperial

1 1/4" x 1 1/4"

1 1/2" x 1 1/2"

1 1/2" x 1 1/2" NPT

NPT Products are a non stock item, available on request

Fits Aluminium & Polypropylene Camlocks. The Hansen 45mm Camlock fits the Irripod 45mm Pipe System

Male Camlock
Male Camlock x Poly



Imperial

HCEP32

HCEP40

HCEP45

Size

32mm

40mm

45mm

Price

1 1/4"

1 1/2"

1 3/4"



Lilac Nut HPNL45

45mm

1 3/4"

White Irripod 40mm
system running



Irripod Parts

Cross Tee Anchor



Code & Description

CTA32-40LD

Cross Tee Anchor 32-40mm LDPE

CTA40-45LD

Cross Tee Anchor 40-45mm LDPE

Manifold



Code & Description

MANIFOLD

50mm Manifold 4 Way BSP

MANIFOLDNPT*

50mm Manifold 4 Way NPT

MANIFOLD25M

50mm Manifold 5 Way BSP includes 25mm BSPT Thread
Hole in Top Spigot

**Non stock item, available on request*

Irripod Pop Up Parts

Pop Up Screw Cap



Code & Description

POPCAP

Pop Up Tapping Saddle Screw Cap

Pop Up Pod Cover



Code & Description

POPCOVER

Pop Up Pod Cover

Code & Description



POPPISTON

Pop Up Piston with O-Ring Seal ACME Thread

Pop Up Screw Cap Seal Code & Description



POPSEAL

Pop Up Tapping Saddle Screw Cap Seal

Pop Up Tapping Saddle Top Code & Description



TST40LDPOP

40mm LDPE Pop Up Tapping Saddle Top

Irripod Covers & Bases

Code & Description



IP-COVER-BL

Black Pod Cover



IP-COVER-LI

Lilac Pod Cover



IP-COVER-WH

White Pod Cover



IP-BASE-BLK

Black Base for 32mm, 40mm and 45mm Pipe



IP-LOWBASE

Black Low Base for 45mm Effluent Pipe
For use in Effluent Pack Part C

Irripod Wire Protectors



Protects Pods and Sprinklers from damage

Code & Description

IP-WIRE

Wire Protector

IP-WIRE-SS

Wire Protector Stainless Steel

IP-WIRECLIP

Wire Retainer Clip

Irripod Bolts, Screws, Seals & U Bolts



Irripod Screw Bag

Code & Description

IP-SCREWS

Irripod Screw Bag

1 x Irripod Screw Bag (6 x10g Pozi Pan Head Self Tapping Stainless Steel Screws)



Code & Description

IP-SEAL

Tapping Saddle Seal 24.99mm ID x 3.53mm



Code & Description

IP-U-BOLTS

U -Bolt Bag

1 x Irripod U-Bolt Bag (2 x M8 x 65mm Stainless Steel U Bolts, 4 x M8 Stainless Steel Flanged Nuts)



Code & Description

HANDLE25

20mm Single Pod Handle Female BSP

Irripod Accessories

Fence Signs



Code & Description

SIGN1	240mm Movement Fence Sign Yellow No 1
SIGN2	240mm Movement Fence Sign Yellow No 2
SIGN3	240mm Movement Fence Sign Yellow No 3
SIGN4	240mm Movement Fence Sign Yellow No 4
SIGN5	240mm Movement Fence Sign Yellow No 5
SIGN6	240mm Movement Fence Sign Yellow No 6
SIGN7	240mm Movement Fence Sign Yellow No 7
SIGN8	240mm Movement Fence Sign Yellow No 8
SIGN9	240mm Movement Fence Sign Yellow No 9
SIGN10	240mm Movement Fence Sign Yellow No 10
SIGN11	240mm Movement Fence Sign Yellow No 11
SIGN12	240mm Movement Fence Sign Yellow No 12
SIGN13	240mm Movement Fence Sign Yellow No 13
SIGN14	240mm Movement Fence Sign Yellow No 14

Tow Balls



Code & Description

TOWBALL	Tow Trailer Tow Ball Yellow
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Tow Rope



Code & Description

TOWROPE	Tow Rope 2 Metre Spliced Ends
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Tow Trailer



Irripod Tow Trailers have been designed to enable the easy movement of your Irripod Irrigation or Effluent Systems. The Irripod Tow Trailer features a quick release mechanism that allows the shift to be completed without having to leave the Tow Vehicle.

Code & Description

TOWTRAILER	Irripod Tow Trailer
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THE HANSEN POST RISER is an easy and fast to install one piece post top sprinkler application for use in vegetable, orchard, pasture and domestic irrigation systems.

- Used in vegetable, orchard, pasture and domestic irrigation systems
- For any post top sprinkler application;
 1. Above canopy system
 2. Frost protection system
 3. Solid set system
- Easy and fast to install
- One piece post riser – no parts to add during installation
- The bottom post bracket is fixed, with the top post bracket being fully adjustable - allowing easy and controlled attachment to any post shape
- Captive post brackets only require two hands to install
- Fastest riser of its kind on the market to install
- Hansen Glass Fibre Reinforced Nylon quality
- U.V. resistant
- Very strong

The HANSEN MINI SPRINKLER has great resistance to blocking as it has full volume right to the distribution jets. It will fit pots from 100mm (4 inches) to 600mm (2 feet) diameter. The unique angle of water spray is 30°, ensuring that once height is set with the sprinkler mounted on the stake, pressure variations will not cause water to spray out of the pots.

Using the HANSEN MINI SPRINKLER prevents water drops on flower blooms and liquid feed burns. Little if any water on leaves or in crown of plants overnight, reduces cause of bulb or new growth rot.

WATER LOSS MINIMISED

Plants can be watered very slowly with small volumes ensuring no runoff. This prevents accumulation of water on the floor which reduces humidity during flower season. As all water used is directed onto the plant, up to 30% savings could be achieved on water and nutrient usage.

TEMPERATURE CONTROL

The HANSEN MINI SPRINKLER can be used in the summer months to cool plant roots and help initiate spiking.

EASY CLEANING

The jets can be cleaned by loosening the cap, allowing water to flush across the face of the slots, while the sprinkler is operating.

APPLICATIONS

- Orchids & Flowers
- Glasshouse Crops
- Gardens
- Landscaping
- Offices & Commercial Buildings
- Display Pot Plants

Irrigation Mini Sprinklers



The Hansen Mini Sprinklers are a blockage resistant sprinkler system that allows full volume right to the head. Ideally suited for orchids & flowers, glasshouse crops, gardens, landscaping, offices and pot plants.

Code	Description
HPS63	6Jetx300mm Microjet Sprinkler
HPS64	6Jetx400mm Microjet Sprinkler
HPS6T	6 Jet Blue Top
HPS6TA	6 Jet Blue Top Assembly
HPS6TA+T	6 Jet Blue Top Assembly & Tube
HPS83	8Jetx300mm Microjet Sprinkler
HPS84	8Jetx400mm Microjet Sprinkler
HPS8T	8 Jet Yellow Top
HPS8TA	8 Jet Yellow Top Assembly
HPS8TA+T	8 Jet Yellow Top Assem. & Tube
HPSTUBE	1 Meter 6mm Tube
HSTAKE300M	300mm Stake For HPS
HSTAKE400M	400mm Stake For HPS



Post Risers

The Hansen Post Riser is an easy and fast to install one piece post top sprinkler application for use in vegetable, orchard, pasture and domestic irrigation systems.

Post Riser
Bracket and Body



Code

POSTRISER20
POSTRISER25

Description

20mm Post Riser Bracket & Body
25mm Post Riser Bracket & Body

Post Riser
Bracket and Body



Socket

Code

POST20KIT
POST25KIT

Description

20mm Post Riser with SS20 Kit
25mm Post Riser with SS25 Kit

Hansen Post Riser with Regulator
and Sprinkler mounted
(Sprinkler and Regulator not included)



Easy Fit Poly Fittings



Best Installed Value

SECTION TEN

TECHNICAL SPECIFICATIONS



Easy Fit Poly Fittings Features & Benefits

- Trusted by Kiwi Farmers for over 40 years
- Suitable for use above or below ground in varying operating pressures and temperatures
- Strong, Lightweight and Compact
- Available in a variety of thread combinations and connections
- New Zealand Made
- Simple to use one piece fitting - no components to lose, rust or corrode
- Fast and easy to assemble – push the pipe onto the fitting and wind on the nut
- No O-Ring, No Crimping, No Solvent Cement
- Nut and Barbs provide superior double strength grip – when fitted correctly the fitting will not leak or blow off the pipe
- Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance
- Material Approved for use with Potable (drinkable) Water
- Fittings demonstrate excellent hydraulic flow characteristics

Easy Fit Poly Fittings Approvals

AS/NZS 4020 - Hansen *Easy Fit* Poly Fittings from 15mm to 50mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

Fire Rating UL94HB

See our website for further details.

Easy Fit Poly Fittings Quick & Easy Installation

- All pipe work must be adequately supported.
- Use either a thread sealing paste or tape on all threaded connections, we recommend Loctite 5331
- For further technical information including chemical & temperature specifications, please visit our website: www.hansenproducts.com



1 Cut the pipe with pipe cutters, a knife or saw. Ensure a square cut of pipe ends. Clean burs off pipe. When making a repair in a burst pipe make sure the length of the cut away matches the length of the replacement fitting between the screwed on nuts.



2 Ensure the nut is fully wound back onto the body of the fitting. Push the pipe onto the fitting and as far as possible into the nut.



3 Wind the nut onto the pipe a few turns. Tighten with spanner or pipe grips.

Easy Fit Poly Fittings Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong		X	
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel	X		
Automotive Lubricants	X		
Hydraulic Fluids	X		
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents		X	
Hydrocarbons	X		
Halogens			X
Alcohols		X	
Aldehydes			X
Amines			X
Esters	X		
Ethers	X		
Ketones		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide		X	
Phenols			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Easy Fit Poly Fittings Specifications

STANDARD NZS 7601:1978 (New Zealand) Polyethylene Pipe (Type 3) For Cold Water Service

Pipe Size	Inside Diameter		Outside Diameter		Wall Thickness		Working Pressure	
	Min	Max	Min	Max	Min	Max		
mm	mm	mm	mm	mm	mm	mm	MPa	psi
15	11.7	12.7	16.9	17.3	2.3	2.6	0.90	130.50
20	17.9	19.2	24.9	25.4	3.1	3.5	0.80	116.00
25	24.2	25.6	31.2	31.8	3.1	3.5	0.65	94.25
32	30.5	31.9	37.5	38.1	3.1	3.5	0.50	72.50
40	36.8	38.3	43.8	44.5	3.1	3.5	0.45	65.25
50	49.5	51.0	56.5	57.2	3.1	3.5	0.35	50.75

Easy Fit Poly Fittings Maximum Working Pressures

The pressure rating for the *Easy Fit* Poly Fittings is 16 Bar @ 20 degrees C

Easy Fit Poly Fittings Frequently Asked Questions

Q How tight should I tighten my fittings?

A Wind the nut by hand onto pipe as tight as possible. Use a spanner or pipe grips to tighten until nut is firm on pipe.

Q What type of pipe will Hansen *Easy Fit* Poly Fittings connect to?

A New Zealand LDPE (Low Density Polyethylene Pipe), EnduroFlex, Australian Rural Class B, Irish Imperial Polyethylene Pipes (including wash down hose and non toxic tube).

Q What is the best size of pipe for my needs?

A Refer to a qualified water reticulation installer for professional advice to suit your needs.

Q Can I use my Hansen *Easy Fit* Poly Fittings with my swimming pool/spa pool set up?

A No, as the high concentration of chlorine used in the water for pools will attack the material. The fitting material is only suitable for use with domestic water. Hansen products that are used in this application will not be covered by warranty.

Q What temperature can I use Hansen *Easy Fit* Poly Fittings at?

A Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

Q Can I use Hansen *Easy Fit* Poly Fittings in marine applications?

A Yes. While marine applications vary, Hansen *Easy Fit* Poly fittings are resistant to sea water. The fittings will not leach any substances that will be harmful to marine life. Hansen *Easy Fit* Poly fittings have provided excellent service in marine applications for many years without failure. If you require further information, please contact us by email with details regarding your application.

Easy Fit Poly Fittings Features

TIME TESTED AND TRUSTED FOR OVER 40 YEARS



MADE FROM HIGH QUALITY DURABLE MATERIALS

Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance



ONE PIECE FITTING
No parts to lose, rust or corrode.



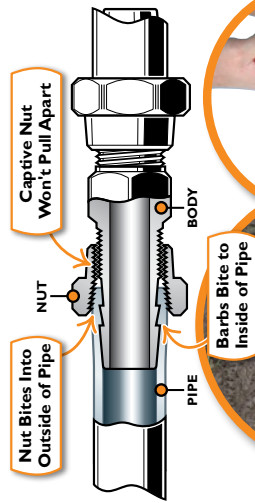
HIGH FLOW RATE
Fittings demonstrate excellent hydraulic flow characteristics



AS/NZS 4020

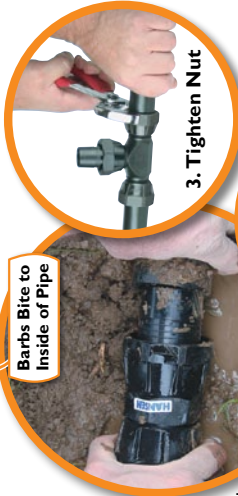
POTABLE WATER APPROVED

Material Approved for use with Potable (drinkable) Water



SUPERIOR GRIP AND FAST & EASY TO INSTALL

The superior double strength grip of the Hansen nut & barbs makes a fitting connection that when fitted correctly, won't blow off the pipe. No specialist site equipment or skilled labour required. Push the pipe onto the fitting and wind on the nut. No O-Ring, No Crimping, No Solvent Cement. A simple, reliable one piece connection.



3. Tighten Nut



2. Push onto Fitting



1. Cut Pipe



LARGE RANGE

Over 126 fittings in sizes 15mm to 50mm (1/2" to 2") provides more options & versatility in new and existing installations, saving time and money

HANSENTM

Easy Fit Poly Fittings

The Reliable and World Proven Pipe Connection

www.hansenproducts.co.nz

HDB154 1406

Easy Fit Compression Fittings



Best Installed Value

SECTION TEN (a)

TECHNICAL SPECIFICATIONS



Easy Fit Compression Fittings Features & Benefits

- Manufactured in New Zealand using Best Quality Materials to withstand the harshest weather conditions
- Largest Medium Density fitting range made in New Zealand
- Only Approved Medium Density range made in New Zealand
- One-piece fitting captive components when fitting assembled correctly
- O-Ring is pre-lubricated for easy pipe insertion and reliable leak free connections
- Manufactured from UV Stabilised High Quality Virgin Polypropylene giving weather, termite, fungi and bacterial resistance
- High Pressure Rating
- Sleek, Compact Design for easy installation
- Easy Grip Nuts for rapid winding onto pipe
- Dependable High Quality Threaded Components
- Potable (Drinking) water approved

Easy Fit Compression Fittings Materials

Nuts & Body: High quality Polypropylene (Virgin PP)

Grip Ring: High quality Acetal (Virgin POM)

Thrust Ring: High quality Polypropylene (PP)

O-Ring: High quality Nitrile Rubber (NBR)

Easy Fit Compression Fittings Standards and Approvals

WaterMark Certificate of Conformity – Level 1

Evaluated to: AS/NZS 4129:2008 - Fittings for Polyethylene (PE) pipes for pressure applications.

Certification No: WMKA21978

The WaterMark™ Certification Scheme is a certification scheme for plumbing and drainage products to ensure that plumbing and drainage materials and products are fit for purpose and appropriately authorized for use in plumbing installations. It also provides a uniform national approach to plumbing product approvals. The plumbing industry in Australia & New Zealand supports the use of the WaterMark™ which, when used properly, is an excellent way of helping consumers be confident about the quality of the plumbing product to which it is applied. Material and product failures in plumbing systems can cause contamination of the water system and be a public health concern. Under the Scheme, Hansen Easy Fit Compression Fittings carry the WaterMark approval and are accepted for use in all Australian states and territories & throughout New Zealand - subject to correct installation practices in accordance with AS/NZS 3500 and any local deviations.

The procedures and technical requirements of this scheme are identified in:

AS 5200.000-2006 Technical specification for plumbing and drainage products - Procedures for certification of plumbing and drainage products.

The Watermark Certification at Hansen is achieved through:

- Testing by a recognised testing laboratory;
- Comply with an approved specification (WaterMark Technical Specification);
- Is manufactured in accordance with an approved Quality Assurance Program
- Carries a warranty

Wellington Water: Hansen Easy Fit Compression Fittings are approved to be used in all municipal water supply construction and maintenance activities within the Lower Hutt and Upper Hutt Cities. Only approved products are allowed to be incorporated into works that are carried out on, or are intended to be vested to, the public water supply network.

AS/NZS 4020 HANSEN™: Easy Fit Compression Fittings from 16mm to 110mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

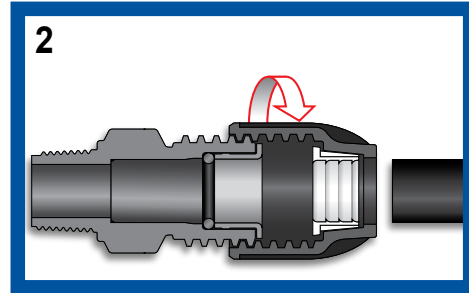
Easy Fit Compression Fittings Quick & Easy Installation

EASY TO INSTALL

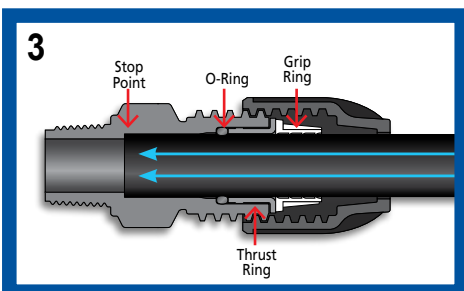
Reliable leak proof seals are the hallmark of any Hansen fitting and that's no exception when it comes to the *Easy Fit* Compression range, the simple steps make installation a breeze.



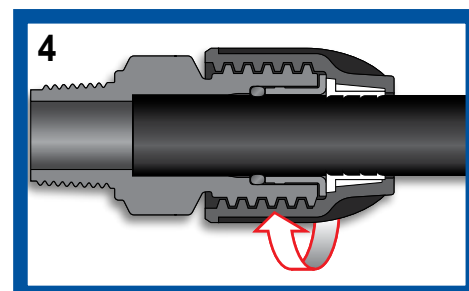
1. Cut the pipe with pipe cutters, knife or saw. Ensure a square cut of pipe ends. Clean burrs from pipe ends. Keep the pipe end clean and as free of scratches and imperfections as possible.



2. Undo the Nut to the last thread, do not remove Nut from the Body.



3. Insert the pipe into the fitting through the Nut, White Grip Ring & Thrust Ring until it meets resistance at the O-Ring. Give the pipe a firm push past the O-Ring all the way until it hits the final stop point.



4. Firmly hand tighten the Nut. Use a pair of Poly Grips for a further half turn past hand tight for final tightening on 40mm fittings and greater.

The hydraulic seal is created when the pipe passes the O-Ring. Tightening the Nut is to achieve pull out resistance of the pipe.



Easy Fit Compression Fittings Chemical Resistance Chart

CHEMICAL RESISTANCE DATA

These recommendations are based upon information from material suppliers and careful examination of available published information and are believed to be accurate. However, since the resistance of metals, plastics and elastomers can be affected by concentration, temperature, presence of other chemicals and other factors, this information should be considered as a general guide rather than an unqualified guarantee. Ultimately, the customer must determine the suitability of the fittings used in various solutions.

All recommendations assume ambient temperatures unless otherwise noted.

RATINGS - CHEMICAL EFFECT

A = No effect - Excellent
 B = Minor effect - Good
 C = Moderate effect - Fair
 D = Severe effect - Not Recommended

FOOTNOTES

1 - Polypropylene - Satisfactory to 22° C
 2 - Polypropylene - Satisfactory to 49° C
 3 - Buna-N - Satisfactory for "O" Rings
 4 - Polyacetal - Satisfactory to 22° C

Added consideration must be given to fitting selections when the chemical is Abrasive or Viscous in nature.

Acetaldehyde - Alcohols (Propyl)

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Acetaldehyde 4	A	A	B	B
Acetamide	-	B	-	A
Acetate Solv. 1	A	-	D	D
Acetic Acid, Glacia	-	D	B	D
Acetic Acid 20%	-	-	A	C
Acetic Acid 80%	-	-	B	C
Acetic Acid	-	D	A	C
Acetic Anhydride	B	D	A	A
Acetone	A	B	B	D
Acetyl Chloride	-	-	-	-
Acetylene 1	A	A	D	A
Acrylonitrile	A	B	B	D
Alcohols				
Amyl	A	A	B	A
Benzyl	-	A	A	D
Butyl	A	A	B	A
Diacetone 1	-	A	D	D
Ethyl	-	B	A	A
Hexyl	-	A	A	A
Isobutyl	-	A	A	C
Isopropyl	-	A	A	C
Methyl	-	C	A	B
Octyl	-	A	-	B
Propyl	-	A	A	A

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Aluminium Chloride - Barium Sulfate

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Aluminium Chloride 20%	-	C	A	A
Aluminium Chloride	C	-	A	A
Aluminium Fluoride	-	C	A	A
Aluminium Hydroxide	-	B	A	A
Alum Potassium Sulfate (Alum), 100%	-	C	A	A
Aluminium Sulfate	-	C	A	A
Amines	A	D	-	D
Ammonia 10%	-	-	A	D
Ammonia, Anhydrous	A	D	A	B
Ammonia, Liquids	-	D	A	B
Ammonia, Nitrate	-	C	A	A
Ammonium Bifluoride	-	D	A	A
Ammonium Carbonate	B	D	A	D
Ammonium Casenite	-	D	-	-
Ammonium Chloride	C	B	A	A
Ammonium Hydroxide	A	D	A	B
Ammonium Nitrate	A	C	A	A
Ammonium Oxalate	-	B	-	A
Ammonium Persulfate	-	D	A	A
Ammonium Phosphate, Dibasic	B	B	A	A
Ammonium Phosphate, Monobasic	-	B	A	A
Ammonium Phosphate, Tribasic	B	B	A	A
Ammonium Sulfate	C	B	A	A
Ammonium Thio-Sulfate	-	B	-	A
Amyl-Acetate	B	A	D	D
Amyl Alcohol	-	A	A	B
Amyl Chloride	-	A	D	D
Aniline	B	D	B	D
Anti-Freeze	-	A	A	A
Aqua Regia (80%, HCl, 20%, HNO)	-	D	C	D
Arochlor 1248	-	-	-	D
Aromatic Hydrocarbons	-	A	-	D
Arsenic Acid	B	D	A	A
Asphalt	-	A	A	B
Barium Carbonate	B	A	A	A
Barium Chloride	C	A	A	A
Barium Cyanide	-	B	-	C
Barium Hydroxide	B	D	A	A
Barium Nitrate	-	A	-	A
Barium Sulfate	B	A	A	A

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Beet Sugar Liquids - Chlorobenzene

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Beet Sugar Liquids	A	B	A	A
Benzaldehyde 2	A	A	D	D
Benzene 1	B	A	D	D
Benzoic Acid 1	B	B	D	D
Benzol	-	A	A	D
Borax (Sodium Borate)	-	A	A	B
Boric Acid	B	A	A	A
Brewery Slop	-	A	-	A
Bromine (wet) 1	D	D	D	D
Butadiene	A	A	-	A
Butane 1	A	A	D	A
Butter	-	A	-	A
Buttermilk	A	A	-	A
Butylene	A	A	-	B
Butyl Acetate	-	A	D	B
Butyric Acid	B	C	A	D
Calcium Bisulfate	C	-	-	A
Calcium Bisulfide	-	D	A	A
Calcium Bisulfite	-	-	A	A
Calcium Carbonate	B	A	A	A
Calcium Chloride	C	D	A	A
Calcium Hydroxide	B	B	A	A
Calcium Hypochlorite	D	D	A	B
Calcium Sulfate	B	A	A	A
Calgon	-	B	A	A
Cane Juice 1	-	A	D	A
Carbon Bisulfide 1	B	A	D	D
Carbon Disulfide 1	-	A	D	D
Carbon Monoxide	-	A	A	A
Carbon Tetrachloride 1	B	A	D	C
Carbonated Water	B	A	A	A
Carbonic Acid	B	A	A	B
Catsup	-	B	A	A
Chloracetic Acid 1	D	D	D	D
Chloric Acid	-	-	-	D
Chlorinated Glue	-	-	-	C
Chlorine, Anhydrous Liquid	-	D	D	D
Chlorine (dry)	B	-	-	-
Chlorine Water	D	-	D	D
Chlorobenzene (Mono)	A	A	D	D

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Chloroform - Ferrous Chloride

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Chloroform	A	A	D	D
Chlorosulfonic Acid	D	D	D	D
Chlorox (Bleach)	-	D	D	C
Chocolate Syrup	-	A	A	A
Chromic Acid 5%	-	D	A	D
Chromic Acid 10%	-	-	A	D
Chromic Acid 30%	-	-	A	D
Chromic Acid 50%	C	D	B	D
Cider - A A A B	-	B	-	A
Citric Acid	-	B	B	D
Citric Oils	-	B	A	A
Coffee	A	A	A	A
Copper Chloride	C	B	A	A
Copper Cyanide	-	B	A	B
Copper Floroborate	-	B	-	B
Copper Nitrate	B	B	A	A
Copper Sulfate (5% Sol)	-	B	A	A
Copper Sulfate	B	-	A	B
Cream	-	A	A	A
Cresols 1	-	D	C	D
Cresylic Acid	B	D	-	D
Cyclohexane	-	A	D	A
Cyanic Acid	-	D	-	C
Detergents	-	B	A	A
Diesel Fuel	A	A	D	A
Diethylamine	A	D	C	B
Diethylene Glycol	-	A	-	A
Diphenyl Oxide	-	A	-	D
Dyes	-	A	-	-
Epsom Salts (Magnesium Sulfate)	B	A	A	A
Ethane	A	A	-	A
Ethanolamine	-	D	-	B
Ether 2	A	A	-	D
Ethyl Acetate 1	-	A	C	D
Ethyl Chloride	-	A	D	D
Ethyl Sulfate	-	B	-	A
Ethylene Chloride 1	-	A	D	D
Ethylene Dichloride	-	A	A	D
Ethylene Glycol 3	-	A	A	A
Ethylene Oxide	-	A	-	D
Fatty Acids	-	A	A	C
Ferric Acid	-	B	A	D
Ferric Nitrate	-	B	A	A
Ferric Sulfate	-	B	A	B
Ferrous Chloride	-	B	A	B

Ferrous Sulfate - Hydrofluosilicic Acid

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Ferrous Sulfate	B	B	A	B
Fluoboric Acid	-	B	A	B
Fluorine	D	-	-	-
Fluosilicic Acid	-	B	A	A
Formaldehyde 40%	-	-	A	B
Formaldehyde	A	A	A	C
Formic Acid	C	D	A	D
Freon 111	A	A	-	C
Freon 12 (wet) 1	-	A	A	A
Freon 22	-	A	-	D
Freon 113	-	A	-	A
Freon T.F.4	-	A	D	A
Fruit Juice	A	B	A	A
Fuel Oils	A	A	B	A
Furan Resin	-	A	-	D
Furfural	A	B	D	D
Gallic Acid	B	-	-	A
Gasoline 3	A	A	C	A
Gelatin	A	A	A	A
Glucose	A	A	A	A
Glue P.V.A.	B	A	-	A
Glycerine	A	A	A	A
Glycolic Acid	-	C	A	A
Gold Monocyanide	-	A	-	A
Grape Juice	-	B	-	A
Grease 3	A	A	-	A
Heptane	A	A	D	A
Hexane	A	A	C	A
Honey	-	A	A	A
Hydraulic Oils (Petroleum)	A	A	D	A
Hydraulic Oils (Synthetic)	-	A	D	C
Hydrazine	-	D	-	B
Hydrobromic Acid 20%	-	-	A	D
Hydrobromic Acid 3	D	D	B	D
Hydrochloric Acid (Dry Gas)	D	-	-	-
Hydrochloric Acid 20% 3	-	D	A	C
Hydrochloric Acid 37% 3	-	D	A	C
Hydrochloric Acid 100%	-	-	-	D
Hydrocyanic Acid	A	B	A	C
Hydrofluoric Acid 20%	-	D	A	D
Hydrofluoric Acid 75% 1	-	D	B	D
Hydrofluoric Acid 100%	D	-	-	D
Hydrofluosilicic Acid 20%	-	D	A	B

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Hydrogen Gas - Methyl Acrylate

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Hydrogen Gas	A	-	-	-
Hydrogen Peroxide 10%	-	-	-	A
Hydrogen Peroxide 30%	-	-	A	D
Hydrogen Peroxide	-	D	A	D
Hydrogen Sulfide, Aqueous Solution	-	D	A	C
Hydrogen Sulfide (dry)	A	-	-	-
Hydroxyacetic Acid (70%)	-	D	-	A
Ink	A	A	-	A
Iodine	-	C	D	B
Iodine (in Alcohol)	-	-	B	D
Iodoform	B	-	-	-
Isotane 1	-	A	D	A
Isopropyl Acetate	-	A	-	D
Isopropyl Ether 1	A	A	D	B
Jet Fuel (JP#, JP4, JP5)	A	A	D	A
Kerosene 1	A	A	D	A
Ketones	A	B	D	D
Lacquers	A	A	A	D
Lacquer Thinners	-	-	B	D
Lactic Acid	A	B	A	B
Lard	B	A	A	A
Latex	-	A	-	A
Lead Acetate	B	A	A	B
Lead Sulfamate	-	A	A	B
Ligroin 2	-	A	D	A
Lime	-	D	-	A
Lubricants	-	A	A	A
Magnesium Carbonate	-	A	A	A
Magnesium Chloride	B	A	A	A
Magnesium Hydroxide	A	A	A	B
Magnesium Nitrate	-	A	A	A
Magnesium Oxide	-	A	-	A
Magnesium Sulfate	B	A	A	A
Maleic Acid	C	C	C	A
Maleic Anhydride	-	C	-	D
Malic Acid	B	-	-	D
Mash	-	A	-	-
Mayonnaise	A	A	A	A
Melamine	-	D	-	A
Mercuric Chloride (Dilute Solution)	D	A	A	C
Mercuric Cyanide	A	A	A	A
Mercury	A	A	A	A
Methanol (See Alcohol Methyl)				
Methyl Acetate	A	A	-	D
Methyl Acrylate	-	A	-	D

A= No effect - Excellent

B= Minor effect - Good

C= Moderate effect - Fair

D= Severe effect - Not Recommended

Methyl Acetone - Oils / Fuels

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Methyl Acetone	A	A	-	D
Methyl Alcohol 10%	A	-	-	B
Methyl Bromide	-	A	-	B
Methyl Butyl Ketone	-	B	-	D
Methyl Cellosolve	-	B	A	D
Methyl Chloride	-	A	D	D
Methyl Dichloride	-	A	-	D
Methyl Ethyl Ketone	-	B	A	D
Methyl Isobutyl Ketone 1	-	B	C	D
Methyl Isopropyl Ketone	-	B	-	D
Methyl Methacrylate	-	A	-	D
Methylamine	A	D	-	B
Methylene Chloride	A	A	D	D
Milk	A	A	A	A
Molasses	A	A	A	A
Mustard	A	B	A	B
Naptha	A	A	A	B
Napthalene	B	A	B	D
Nickel Chloride	-	B	A	A
Nickel Sulfate	B	B	A	A
Nitric Acid (10% Solution)	A	D	A	D
Nitric Acid (20% Solution)	-	D	A	D
Nitric Acid (50% Solution)	-	D	D	D
Nitric Acid (Concentrated Solution)	-	D	D	D
Nitrobenzene 1	B	B	C	D
Oils				
Aniline	-	D	A	D
Anise	-	A	-	-
Bay	-	A	-	-
Bone	-	A	-	A
Castor	-	A	-	A
Cinnamon	-	A	A	-
Citric	-	A	A	A
Clove	-	A	B	A
Coconut	-	A	A	A
Cod Liver	-	A	A	A
Corn	-	A	A	A
Cotton Seed	B	A	A	A
Cresote 1	-	D	D	A
Diesel Fuel (2D, 3D, 4D, 5D)	-	A	A	A
Fuel (1,2,3,5A, 5B, 6)	-	A	B	B

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Oils / Fuels (Cont'd) - Bronze Plating

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Ginger	-	A	-	A
Hydraulic (See Hydraulic Oils)				
Lemon	-	A	D	-
Linseed	-	A	A	A
Mineral	A	A	B	A
Olive	A	A	A	A
Orange	-	A	A	A
Palm	-	A	-	A
Peanut 2	-	A	D	A
Peppermint 1	-	A	D	D
Pine	A	A	-	A
Rape Seed	-	A	-	B
Rosin	-	A	A	A
Sesame Seed	-	A	-	A
Silicone	-	A	A	A
Soybean	-	A	A	A
Sperm	-	A	-	A
Tanning	-	A	-	A
Turbine	-	A	-	B
Oleic Acid	B	B	C	D
Oleum 25%	-	-	-	C
Oleum	B	D	D	B
Oxalic Acid (Cold)	C	C	A	A
Paraffin	A	A	A	A
Pentane	A	A	-	C
Perchloroethylene 1	B	A	D	A
Petrolatum	A	A	-	D
Phenol 10%	B	-	-	D
Phenol (Carbolic Acid)	B	D	B	D
Phosphoric Acid (to 40% Solution)	-	D	A	D
Phosphoric Acid (40-100% Solution)	-	D	A	D
Phosphoric Acid (Crude)	-	D	-	D
Phosphoric Anhydride (Dry or Moist)	-	-	-	D
Phosphoric Anhydride (Molten)	-	-	-	C
Photographic (Developer)	-	C	A	A
Phthalic Anhydride	B	-	-	C
Picric Acid	B	-	-	A
Plating Solutions				
Antimony Plating 54°C	-	-	A	A
Arsenic Plating 43°C	-	-	A	A
Brass Plating				
Regular Brass Bath 38°C	-	-	A	A
High Speed Brass Bath 43°C	-	-	A	A
Bronze Plating				
Copper-Cadmium Bronze Bath R.T.	-	-	A	A
Copper-Tin Bronze Bath 71°C	-	-	A	A

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Platings (Cont'd) - Zinc Plating

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Bronze Plating				
Copper-Zinc Bronze Bath 38°C	-	-	A	A
Cadmium Plating				
Cyanide Bath 32°C	-	-	A	A
Fluoborate Bath 38°C	-	-	A	B
Chromium Plating				
Chromic-Sulfuric Bath 54°C	-	-	A	D
Fluosilicate Bath 35°C	-	-	A	D
Fluoride Bath 54°C	-	-	A	D
Black Chrome Bath 46°C	-	-	A	D
Barrel Chrome Bath 35°C	-	-	A	D
Copper Plating (Cyanide)				
Copper Strike Bath 49°C	-	-	A	-
Rochelle Salt Bath 66°C	-	-	A	A
High Speed Bath 82°C	-	-	A	A
Copper Plating (Acid)				
Copper Sulfate Bath R.T.	-	-	A	A
Copper Fluoborate Bath 49°C	-	-	A	B
Copper (Misc.)				
Copper Pyrophosphate 60°C	-	-	A	A
Copper (Electroless) 60°C	-	-	A	D
Gold Plating				
Cyanide 66°C	-	-	A	A
Neutral 24°C	-	-	A	A
Acid 24°C	-	-	A	A
Indium Sulfamate Plating R.T.	-	-	A	A
Iron Plating				
Ferrous Chloride Bath 88°C	-	-	C	B
Ferrous Sulfate Bath 66°C	-	-	A	A
Ferrous Am. Sulfate Bath 66°C	-	-	A	A
Sulfate-Chloride Bath 71°C	-	-	A	B
Fluoborate Bath 63°C	-	-	A	B
Sulfamate 60°C	-	-	A	A
Lead Fluoborate Plating	-	-	A	B
Nickel Plating				
Watts Type 46-71°C	-	-	A	A
High Chloride 54-71°C	-	-	A	A
Fluoborate 38-77°C	-	-	A	B
Sulfamate 38-60°C	-	-	A	A
Electroless 93°C	-	-	D	D
Rhodium Plating 49°C	-	D	A	A
Silver Plating 27-49°C	-	-	A	A
Tin-Fluoborate Plating 38°C	-	-	A	B
Tine-Lead Plating 38°C	-	-	A	B
Zinc Plating				
Acid Chloride 60°C	-	-	A	A
Acid Sulfate Bath 66°C	-	-	A	A

Platings (Cont'd) - Sodium Hydrosulfite

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Acid Fluoborate Bath R.T.	-	-	A	B
Alkaline Cyanide Bath R.T.	-	-	A	A
Potash	-	B	A	A
Potassium Bicarbonate	-	C	A	A
Potassium Bromide	A	A	A	A
Potassium Carbonate	B	B	A	B
Potassium Chlorate	B	B	A	A
Potassium Chloride	C	A	A	A
Potassium Chromate	-	C	-	A
Potassium Cyanide Solutions	B	C	A	A
Potassium Dichromate	B	C	A	A
Potassium Ferrocyanide	B	-	-	D
Potassium Hydroxide (50%)	A	D	A	B
Potassium Nitrate	B	B	A	A
Potassium Permanganate	B	C	B	A
Potassium Sulfate	B	B	A	A
Potassium Sulfide	A	-	-	A
Propane (Liquified) 1	A	A	D	A
Propylene Glycol	B	B	-	A
Pyridine	-	D	B	D
Pyrogalllic Acid	B	D	-	A
Rosins	A	B	A	A
Rum	-	A	A	A
Rust Inhibitors	-	A	A	A
Salad Dressing	-	A	A	A
Sea Water	A	A	A	A
Shellac (Bleached)	A	A	A	A
Shellac (Orange)	A	A	A	A
Silicone	-	A	A	A
Silver Bromide	-	C	-	-
Silver Nitrate	B	C	A	C
Soap Solutions	A	A	A	A
Soda Ash (See Sodium Carbonate)				
Sodium Acetate	B	B	A	D
Sodium Aluminate	B	B	-	A
Sodium Bicarbonate	B	B	A	A
Sodium Bisulfate	A	B	A	A
Sodium Bisulfate	-	B	A	A
Sodium Borate	B	-	-	-
Sodium Carbonate	B	A	A	A
Sodium Chlorate	B	D	A	D
Sodium Chloride	B	A	A	A
Sodium Chromate	A	D	A	A
Sodium Cyanide	B	D	A	A
Sodium Fluoride	B	-	-	D
Sodium Hydrosulfite	-	-	-	-

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Sodium Hydroxide - Tartaric Acid

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Sodium Hydroxide (20%)	-	D	A	A
Sodium Hydroxide (50% Solution)	-	D	A	D
Sodium Hydroxide (80% Solution)	-	D	A	D
Sodium Hypochlorite (to 20%)	-	D	D	C
Sodium Hypochlorite	D	-	A	B
Sodium Metaphosphate 1	A	B	D	A
Sodium Metasilicate	A	D	-	A
Sodium Nitrate	B	B	A	C
Sodium Perborate	B	B	A	B
Sodium Peroxide	B	D	-	C
Sodium Polyphosphate (Mono, Di, Tribasic)	-	B	-	A
Sodium Silicate	B	C	A	A
Sodium Sulfate	B	B	A	A
Sodium Sulfite	B	B	A	C
Sodium Sulfide	-	-	-	A
Sodium Tetraborate	-	B	-	A
Sodium Thiosulphate ("Hypo")	A	C	A	B
Sorghum	-	A	-	A
Soy Sauce	-	A	-	A
Stannic Chloride	D	C	A	A
Stannic Fluoborate	-	C	-	A
Stannous Chloride	D	-	-	C
Starch	B	A	-	A
Stearic Acid 1	B	A	D	B
Stoddard Solvent	A	A	D	B
Styrene	A	A	-	D
Sugar (Liquids)	A	A	A	A
Sulfate Liquors	-	D	A	-
Sulfur Chloride	-	D	D	D
Sulfur Dioxide 1	-	B	D	D
Sulfur Dioxide (dry)	A	-	-	-
Sulfur Trioxide (dry)	A	D	-	D
Sulfuric Acid (to 10%)	-	D	A	C
Sulfuric Acid 10%-75% 1	-	D	A	D
Sulfuric Acid 75%-100%	-	-	B	D
Sulfurous Acid	C	D	A	C
Syrup	-	A	A	A
Tallow	-	A	-	A
Tannic Acid	B	B	A	D
Tanning Liquors	-	B	A	C
Tartaric Acid	B	B	A	D

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Tetrachlorethane - Zinc Sulfate

	302 Stainless Steel	Polyacetal	Polypropylene	Buna N (Nitrile)
Tetrachlorethane	-	A	A	D
Tetrahydrofuran	-	A	C	D
Toluene, Toluol 2	A	A	D	D
Tomato Juice	A	B	A	A
Trichlorethane	-	A	-	D
Trichlorethylene 1	B	A	D	D
Trichloropropane	-	A	-	A
Tricresylphosphate	-	C	-	D
Triethylamine	-	D	-	A
Turpentine 2	B	A	B	D
Urine	-	A	A	A
Vegetable Juice	-	A	-	A
Vinegar	A	B	-	C
Varnish (Use Viton for Aromatic)	A	A	A	B
Water, Acid, Mine	-	D	A	A
Water, Distilled, Lab Grade 7	-	A	A	A
Water, Fresh	A	A	A	A
Water, Salt	-	A	A	A
Weed Killers	-	A	-	B
Whey	-	A	-	A
Whiskey & Wines	A	A	A	A
White Liquor (Pulp Mill)	-	D	A	A
White Water (Paper Mill)	-	B	A	-
Xylene 1	A	A	D	D
Zinc Chloride	D	C	A	A
Zinc Hydrosulphite	-	C	-	A
Zinc Sulfate	B	C	A	A

A= No effect - Excellent B= Minor effect - Good C= Moderate effect - Fair D= Severe effect - Not Recommended

Easy Fit Compression Fittings Pipe Specifications

PE Pipe Dimensions AS/NZS 4130:2009 (Polyethylene pipes for pressure applications)

	Nominal Outside Diameter	Mean Outside Diameter		Wall Thickness		Working Pressure	
		Min	Max	Min	Max		
	mm	mm	mm	mm	mm	MPa	psi
PN6.3 - PE80	16	16.0	16.3	1.6*	1.9*	0.63	91.4
	20	20.0	20.3	1.6*	1.9*	0.63	91.4
	25	25.0	25.3	1.6*	1.9*	0.63	91.4
	32	32.0	32.3	1.6	1.9	0.63	91.4
	40	40.0	40.4	1.9	2.2	0.63	91.4
	50	50.0	50.5	2.4	2.8	0.63	91.4
	63	63.0	63.6	3.0	3.4	0.63	91.4
	75	75.0	75.7	3.6	4.1	0.63	91.4
	90	90.0	90.9	4.3	4.9	0.63	91.4
	110	110.0	111.0	5.3	6.0	0.63	91.4

PN9 - PE80	16	16.0	16.3	1.6*	1.9*	0.90	130.5
	20	20.0	20.3	1.6*	1.9*	0.90	130.5
	25	25.0	25.3	1.6*	1.9*	0.90	130.5
	32	32.0	32.3	1.9*	2.2*	0.90	130.5
	40	40.0	40.4	2.4*	2.8*	0.90	130.5
	50	50.0	50.5	3.0*	3.4*	0.90	130.5
	63	63.0	63.6	3.8*	4.3*	0.90	130.5
	75	75.0	75.7	4.5*	5.1*	0.90	130.5
	90	90.0	90.9	5.4*	6.1*	0.90	130.5
	110	110.0	111.0	6.6*	7.4*	0.90	130.5

PN 12.5 - PE80	16	16.0	16.3	1.6	1.9	1.25	181.3
	20	20.0	20.3	1.9	2.2	1.25	181.3
	25	25.0	25.3	2.3	2.7	1.25	181.3
	32	32.0	32.3	2.9	3.3	1.25	181.3
	40	40.0	40.4	3.7	4.2	1.25	181.3
	50	50.0	50.5	4.6	5.2	1.25	181.3
	63	63.0	63.6	5.8	6.5	1.25	181.3
	75	75.0	75.7	6.8	7.6	1.25	181.3
	90	90.0	90.9	8.2	9.2	1.25	181.3
	110	110.0	111.0	10.0	11.1	1.25	181.3

PN16 - PE100	16	16.0	16.3	1.6	1.9	1.60	232.1
	20	20.0	20.3	1.9	2.2	1.60	232.1
	25	25.0	25.3	2.3	2.7	1.60	232.1
	32	32.0	32.3	2.9	3.3	1.60	232.1
	40	40.0	40.4	3.7	4.2	1.60	232.1
	50	50.0	50.5	4.6	5.2	1.60	232.1
	63	63.0	63.6	5.8	6.5	1.60	232.1
	75	75.0	75.7	6.8	7.6	1.60	232.1
	90	90.0	90.9	8.2	9.2	1.60	232.1
	110	110.0	111.0	10.0	11.1	1.60	232.1

Pipe dimensions marked with an * are not included in AS/NZS for 4130: 2009 thus have been included based on industry documentation

Easy Fit Compression Fittings Maximum Working Pressure

16mm to 63mm: 16 bar @ 20 degrees Celsius

75mm to 110mm: 12.5 bar @ 20 degrees Celsius

Easy Fit Compression Fittings Frequently Asked Questions

Q. Can I use this fitting in my house water supply?

A. Yes, the Hansen *Easy Fit* Compression Fittings are potable water approved

Q. Will this fitting take over from the existing Hansen fitting?

A. No, the Hansen *Easy Fit* Compression Fittings are only for Medium Density poly pipe. This pipe is known as Metric or MDOD. It is a metric sized poly pipe, manufactured from a medium density material commonly known as PE80 and PE100. The Hansen *Easy Fit* Poly Fittings are for Low Density poly pipe or similar imperial ID pipe such as Australian Rural B poly pipe.

Q. Does this fitting carry Hansen's Life Time Warranty?

A. Yes, all Hansen manufactured products carry our Life Time Warranty

(visit our web site for details)

Q. Why would I use Hansen *Easy Fit* Compression Fittings on my property?

A. Your question should be 'why wouldn't I use Hansen *Easy Fit* Compression Fittings on my property?' They are manufactured in Whangarei, we have the complete range, it carries our Life Time Warranty and it also carries the Hansen brand, being the most used and trusted pipe fittings available in New Zealand for over 40 years.

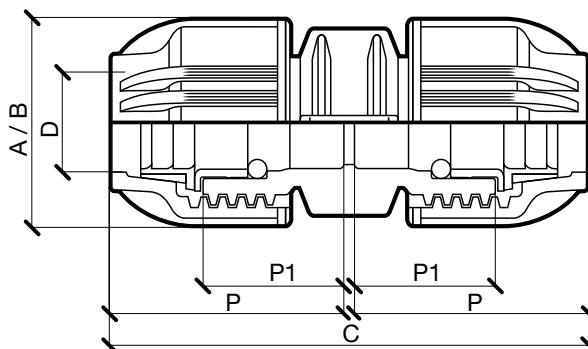
Q. How tight should I tighten my *Easy Fit* Compression fittings?

A. Up to 32mm just tighten hand tight and all sizes above use a spanner to tighten another 1/2 to 1 turns past hand tight. Remember you already have a seal once the pipe is past the O-Ring, all the Nut is doing is compressing the Grip Ring onto the pipe to hold the pipe in place.

Dimensions

Medium Density Straight Coupling Code: HMDC

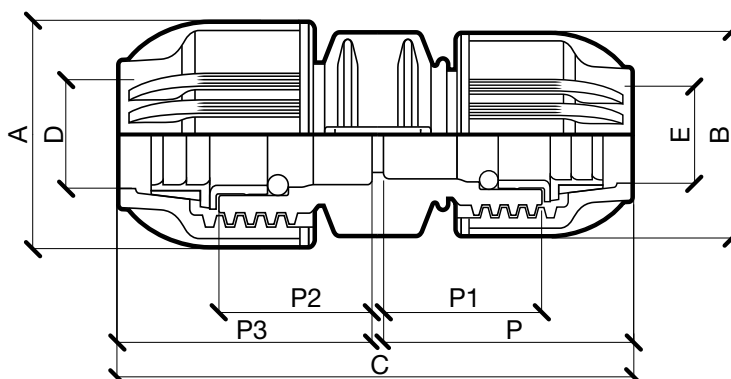
Hansen Code	A/B	C	D	P	P1
HMDC20	46.3	104.3	22.3	50.5	30.2
HMDC25	53.4	104.3	26.9	49.8	32.4
HMDC32	65.0	133.3	34.2	65.0	36.7
HMDC40	82.0	154.3	41.9	73.4	41.6
HMDC50	97.0	190.0	52.2	93.0	54.0
HMDC63	113.5	225.0	65.2	111.0	63.0
HMDC75	136.0	265.0	76.6	129.0	75.5
HMDC90	152.5	310.0	93.0	148.0	89.0
HMDC110	182.0	360.0	111.5	175.0	102.0



Dimensions

Medium Density Reducing Straight Coupling Code: HMDRC

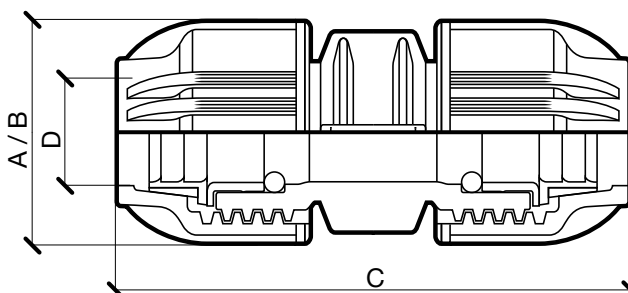
HANSEN CODE	A	B	C	D	E	P	P1	P2	P3
HMDRC2520	53.4	46.3	106.0	26.9	22.3	51.5	33.3	30.9	50.2
HMDRC3220	65.0	46.3	138.0	34.2	22.3	74.5	46.4	40.0	58.5
HMDRC3225	65.0	53.4	120.0	34.2	26.9	64.5	37.0	32.7	51.0
HMDRC4025	82.0	53.4	131.0	41.9	26.9	73.7	41.6	34.0	52.5
HMDRC4032	82.0	65.0	144.0	41.9	34.2	73.0	41.3	37.7	66.0
HMDRC5032	97.0	65.0	180.0	52.2	34.2	94.0	54.0	48.0	76.5
HMDRC5040	97.0	82.0	185.0	52.2	41.9	94.0	54.0	53.3	84.0
HMDRC6332	113.5	65.0	195.0	65.2	34.2	124.0	75.5	40.5	67.5
HMDRC6340	113.5	82.0	210.0	65.2	41.9	124.0	75.5	46.3	77.0
HMDRC6350	113.5	97.0	215.0	65.2	52.2	112.0	67.0	55.0	94.5
HMDRC7563	136.0	113.5	245.0	76.6	65.2	128.5	75.6	62.5	111.5
HMDRC9063	152.5	113.5	270.0	93.0	65.2	148.5	87.6	60.5	109.0
HMDRC9075	152.5	136.0	285.0	93.0	76.6	148.5	87.6	71.0	125.5
HMDRC11075	182.0	136.0	315.0	111.5	76.6	174.0	100.5	78.0	127.0
HMDRC11090	182.0	152.5	345.0	111.5	93.0	174.0	100.5	83.0	151.0



Specifications and sizes may change without prior notice

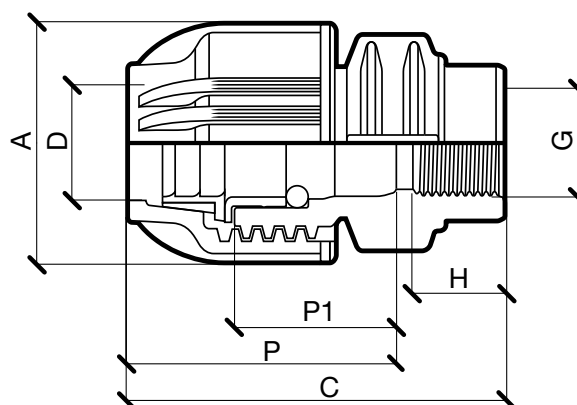
Dimensions : Medium Density Repair Slip Coupling Code: HMDRSC

Hansen Code	A/B	C	D
HMDRSC20	46.3	104.3	22.3
HMDRSC25	53.4	104.3	26.9
HMDRSC32	65.0	133.3	34.2
HMDRSC40	82.0	154.3	41.9
HMDRSC50	97.0	190.0	52.2
HMDRSC63	113.5	225.0	65.2
HMDRSC75	136.0	265.0	76.6
HMDRSC90	152.5	310.0	93.0
HMDRSC110	182.0	360.0	111.5



Dimensions: Medium Density Female Straight Coupling Code: HMDFC

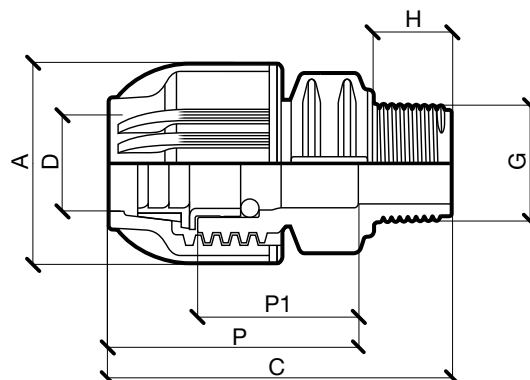
Hansen Code	A/B	C	D	G	H	P	P1
HMDFC2015	46.3	73.7	22.3	1/2	16.0	50.7	30.8
HMDFC2020	46.3	76.0	22.3	3/4	18.5	50.0	31.0
HMDFC2515	53.4	74.3	26.9	1/2	16.0	54.4	36.0
HMDFC2520	53.4	76.8	26.9	3/4	18.5	51.0	32.5
HMDFC2525	53.4	77.9	26.9	1	23.6	51.0	32.5
HMDFC3220	65.0	91.7	34.2	3/4	18.5	65.0	36.5
HMDFC3225	65.0	91.7	34.2	1	19.5	65.0	36.5
HMDFC3232	65.0	93.0	34.2	1-1/4	19.8	65.0	36.5
HMDFC4025	82.0	102.6	41.9	1	19.5	75.0	42.0
HMDFC4032	82.0	104.0	41.9	1-1/4	19.8	75.0	42.0
HMDFC4040	82.0	129.0	41.9	1-1/2	24.6	85.0	53.2
HMDFC5032	97.0	123.0	52.2	1-1/4	21.6	95.3	56.0
HMDFC5040	97.0	123.0	52.2	1-1/2	22.8	95.3	56.0
HMDFC5050	97.0	139.0	52.2	2	24.8	93.0	53.7
HMDFC6340	113.5	145.0	65.2	1-1/2	22.8	117.0	68.5
HMDFC6350	113.5	145.0	65.2	2	27.5	117.0	68.5
HMDFC6363	113.5	167.0	65.2	2-1/2	28.0	111.5	63.2
HMDFC7550	136.0	160.0	76.6	2	24.9	131.0	80.2
HMDFC7563	136.0	160.0	76.6	2-1/2	28.0	131.0	80.2
HMDFC7575	136.0	190.0	76.6	3	32.6	131.0	76.0
HMDFC9050	152.5	190.0	93.0	2	25.0	161.0	100.5
HMDFC9063	152.5	200.0	93.0	2-1/2	27.5	161.0	100.5
HMDFC9075	152.5	200.0	93.0	3	32.3	161.0	100.5
HMDFC90100	152.5	220.0	93.0	4	38.5	160.0	99.0
HMDFC11050	182.0	220.0	111.5	2	25.0	184.0	116.5
HMDFC11075	182.0	230.0	111.5	3	33.0	188.5	116.5
HMDFC110100	182.0	230.0	111.5	4	38.5	183.0	114.5



Specifications and sizes may change without prior notice

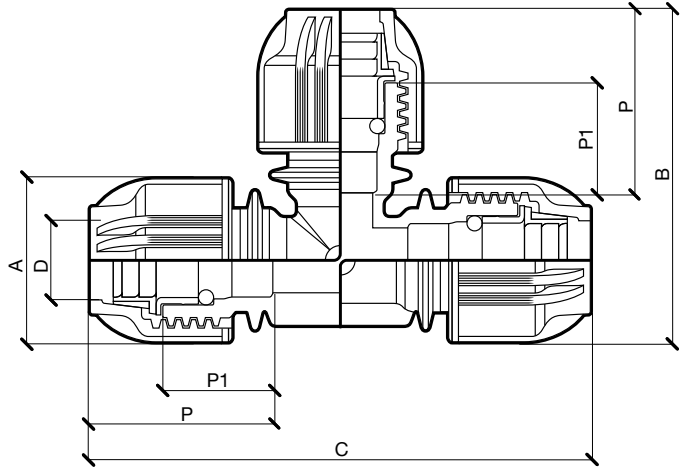
Dimensions: Medium Density Male Straight Coupling Code: HMDMC

Hansen Code	A/B	C	D	G	H	P	P1
HMDMC2015	46.3	77.0	22.3	1/2	14.6	58.2	38.0
HMDMC2020	46.3	79.6	22.3	3/4	16.9	58.2	38.0
HMDMC2520	53.4	79.3	26.9	3/4	16.9	58.2	39.7
HMDMC2525	53.4	82.5	26.9	1	20.4	58.2	39.7
HMDMC3215	65.0	106.0	34.2	1/2	14.6	86.5	54.0
HMDMC3220	65.0	93.8	34.2	3/4	16.8	72.0	43.8
HMDMC3225	65.0	96.1	34.2	1	19.9	71.8	44.0
HMDMC3232	65.0	112.4	34.2	1-1/4	21.8	86.0	58.2
HMDMC3240	65.0	112.0	34.2	1-1/2	22.3	73.4	45.9
HMDMC4025	82.0	108.5	41.9	1	20.0	82.3	49.7
HMDMC4032	82.0	110.0	41.9	1-1/4	22.0	81.5	49.3
HMDMC4040	82.0	126.5	41.9	1-1/2	22.7	95.6	63.9
HMDMC4050	82.0	132.5	41.9	2	27.4	96.0	63.7
HMDMC5032	97.0	135.0	52.2	1-1/4	22.2	102.2	63.6
HMDMC5040	97.0	135.0	52.2	1-1/2	21.8	102.6	63.3
HMDMC5050	97.0	140.0	52.2	2	27.4	105.8	64.8
HMDMC6332	97.0	160.0	65.2	1-1/4	22.0	125.0	77.0
HMDMC6340	113.5	160.0	65.2	1-1/2	21.7	125.0	77.0
HMDMC6350	113.5	160.0	65.2	2	26.4	125.0	76.5
HMDMC6363	113.5	165.0	65.2	2-1/2	30.2	123.0	74.5
HMDMC7550	136.0	180.0	76.6	2	27.0	140.5	89.0
HMDMC7563	136.0	180.0	76.6	2-1/2	30.0	140.5	89.0
HMDMC7575	136.0	190.0	76.6	3	34.0	142.0	88.0
HMDMC9050	152.5	210.0	93.0	2	29.0	161.0	100.0
HMDMC9063	152.5	210.0	93.0	2-1/2	30.8	159.0	100.0
HMDMC9075	152.5	215.0	93.0	3	33.0	159.0	100.0
HMDMC90100	182.0	220.0	93.0	4	39.0	159.0	100.0
HMDMC11050	182.0	230.0	111.5	2	29.0	189.0	116.5
HMDMC11075	182.0	235.0	111.5	3	33.0	185.5	116.5
HMDMC110100	182.0	240.0	111.5	4	39.0	185.5	116.5



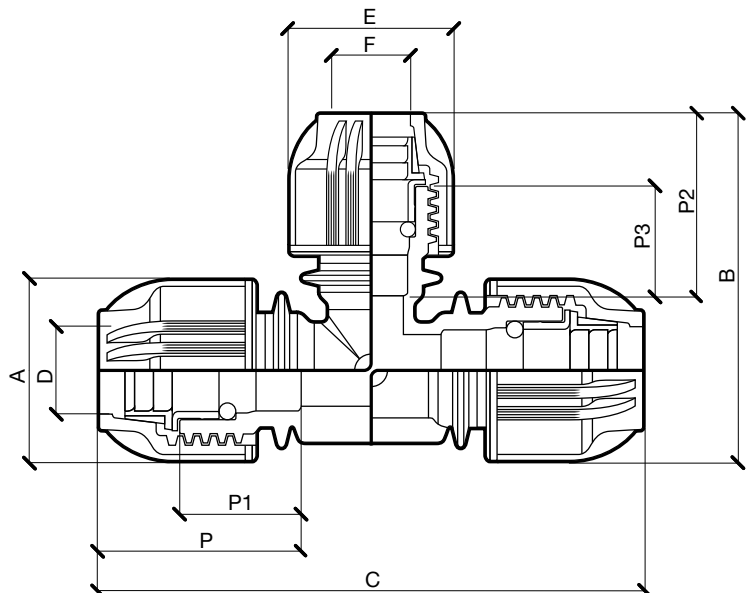
Dimensions: Medium Density Tee Connector Code: HMDT

Hansen Code	A	B	C	D	P	P1
HMDT20	46.3	94.0	144.2	22.3	55.0	35.6
HMDT25	53.4	105.0	149.3	26.9	55.8	37.5
HMDT32	65.0	125.0	183.1	34.2	67.8	39.5
HMDT40	82.0	150.0	220.0	41.9	75.2	45.0
HMDT50	97.0	180.0	245.0	52.2	91.2	51.7
HMDT63	113.5	215.0	295.0	65.2	110.5	61.6
HMDT75	136.0	255.0	350.0	76.6	129.2	77.4
HMDT90	152.5	315.0	430.0	93.0	161.0	100.0
HMDT110	182.0	350.0	500.0	111.5	190.0	118.5



Dimensions: Medium Density Reducing Tee Connector Code: HMDRT

Hansen Code	A	B	C	D	E	F	P	P1	P2	P3
HMDRT2520	53.4	99.2	147.9	26.9	46.3	22.3	54.7	37.1	54.7	35.5
HMDRT3225	65.0	110.9	181.2	34.2	53.4	26.9	67.0	39.9	55.5	36.8
HMDRT4032	82.0	133.4	220.0	41.9	65.0	34.2	76.0	45.1	69.0	42.4
HMDRT5040	97.0	160.0	250.0	52.2	82.0	41.9	91.0	51.5	76.4	44.5
HMDRT6350	113.5	183.0	300.0	65.2	97.0	52.2	110.0	61.0	91.2	51.6
HMDRT7563	136.0	215.0	350.0	76.6	113.5	65.2	125.6	76.0	110.0	61.0
HMDRT9075	152.5	260.0	425.0	93.0	136.0	76.6	158.0	97.0	127.8	72.0
HMDRT11063	182.0	285.0	500.0	111.5	113.5	65.2	189.0	118.3	128.0	79.3
HMDRT11090	182.0	310.0	500.0	111.5	152.5	93.0	189.0	118.3	163.0	99.0

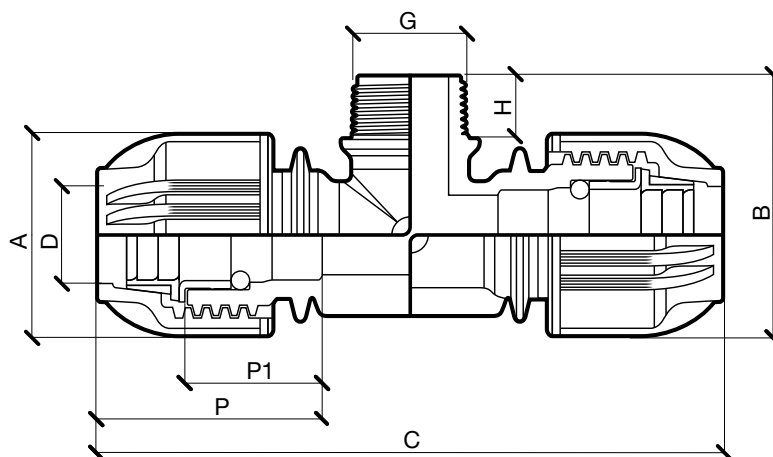


Specifications and sizes may change without prior notice

Dimensions:

Medium Density Male Threaded Tee Connector Code: HMDMT

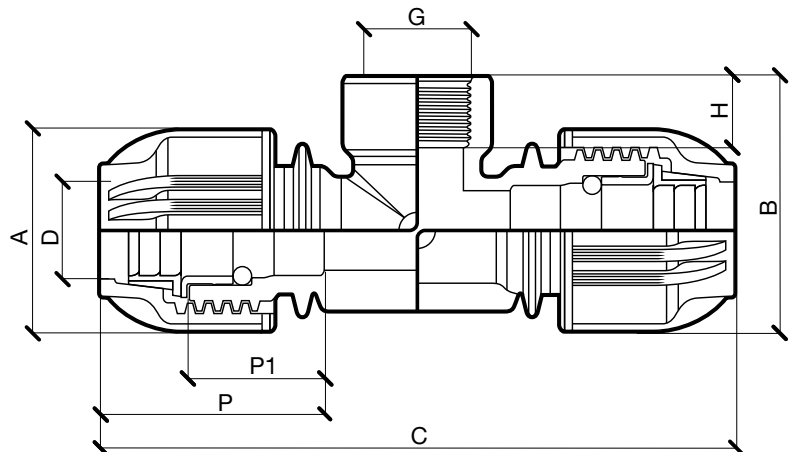
Hansen Code	A	B	C	D	G	H	P	P1
HMDMT2015	46.3	62.4	144.0	22.3	1/2	15.0	53.8	36.2
HMDMT2020	46.3	65.9	144.0	22.3	3/4	16.9	53.8	36.2
HMDMT2515	53.4	68.0	147.9	26.9	1/2	14.7	54.3	37.0
HMDMT2520	53.4	71.0	147.9	26.9	3/4	17.0	54.3	37.0
HMDMT2525	53.4	72.7	147.9	26.9	1	20.0	54.3	37.0
HMDMT3220	65.0	78.9	182.0	34.2	3/4	14.9	68.0	40.8
HMDMT3225	65.0	82.4	182.0	34.2	1	20.0	68.0	40.8
HMDMT3232	65.0	84.8	182.0	34.2	1-1/4	22.2	68.0	40.8
HMDMT4025	82.0	100.0	220.0	41.9	1	20.3	75.0	45.0
HMDMT4032	82.0	100.7	220.0	41.9	1-1/4	22.5	75.0	45.0
HMDMT4040	82.0	99.3	220.0	41.9	1-1/2	22.3	75.0	45.0
HMDMT5040	97.0	115.7	250.0	52.2	1-1/2	22.9	91.5	51.5
HMDMT5050	97.0	119.8	250.0	52.2	2	27.1	91.5	51.5
HMDMT6340	113.5	136.5	295.0	65.2	1-1/2	26	110.0	62.0
HMDMT6350	113.5	138.5	295.0	65.2	2	27.0	110.0	62.0
HMDMT7563	136.0	167.0	348.0	76.6	2-1/2	30.0	125.7	76.8
HMDMT7575	136.0	166.0	348.0	76.6	3	34.0	125.7	76.8
HMDMT9075	152.5	188.0	425.0	93.0	3	32.8	157.0	97.0
HMDMT110100	182.0	224.8	495.0	115.5	4	38.9	185.0	117.0



Dimensions

Medium Density Female Threaded Tee Connector Code: HMDFT

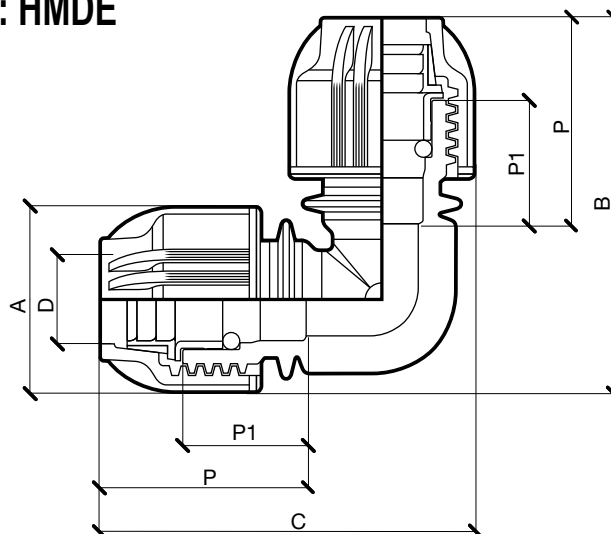
Hansen Code	A	B	C	D	G	H	P	P1
HMDFT2015	46.3	59.5	144.0	22.3	1/2	16.3	53.8	36.2
HMDFT2020	46.3	59.5	144.0	22.3	3/4	18.7	53.8	36.2
HMDFT2515	53.4	66.0	147.9	26.9	1/2	16.3	54.3	37.0
HMDFT2520	53.4	64.3	147.9	26.9	3/4	18.4	54.3	37.0
HMDFT2525	53.4	65.3	147.9	26.9	1	20.0	54.3	37.0
HMDFT3215	65.0	74.0	182.0	34.2	1/2	14.8	68.0	40.8
HMDFT3220	65.0	74.0	182.0	34.2	3/4	18.0	68.0	40.8
HMDFT3225	65.0	75.0	182.0	34.2	1	19.3	68.0	40.8
HMDFT3232	65.0	83.5	182.0	34.2	1-1/4	20.6	68.0	40.8
HMDFT4025	82.0	92.2	220.0	41.9	1	19.4	75.0	45.0
HMDFT4032	82.0	91.6	220.0	41.9	1-1/4	21.0	75.0	45.0
HMDFT4040	82.0	106.0	220.0	41.9	1-1/2	24.9	75.0	45.0
HMDFT5032	97.0	104.0	250.0	52.2	1-1/4	21.3	91.5	51.5
HMDFT5040	97.0	105.3	250.0	52.2	1-1/2	24.6	91.5	51.5
HMDFT5050	97.0	120.5	250.0	52.2	2	25.0	91.5	51.5
HMDFT6340	113.5	122.8	295.0	65.2	1-1/2	24.0	110.0	62.0
HMDFT6350	113.5	124.3	295.0	65.2	2	24.7	110.0	62.0
HMDFT6363	113.5	141.4	295.0	65.2	2-1/2	28.0	110.0	62.0
HMDFT7550	136.0	147.4	348.0	76.6	2	25.0	125.7	76.8
HMDFT7563	136.0	147.4	348.0	76.6	2-1/2	29.6	125.7	76.8
HMDFT7575	136.0	168.5	348.0	76.6	3	32.8	125.7	76.8
HMDFT9063	152.5	180.0	425.0	93.0	2-1/2	30.8	157.0	97.0
HMDFT9075	152.5	184.7	425.0	93.0	3	33.4	157.0	97.0
HMDFT110100	182.0	210.0	495.0	111.5	4	38.8	185.0	117.0



Specifications and sizes may change without prior notice

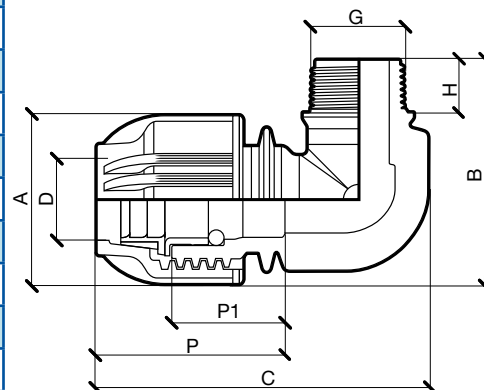
Dimensions: Medium Density Elbow Code: HMDE

Hansen Code	A	B	C	D	P	P1
HMDE20	46.3	100.0	100.0	22.3	56.0	36.0
HMDE25	53.4	110.0	110.0	26.9	55.0	37.0
HMDE32	65.0	140.0	140.0	34.2	69.0	40.0
HMDE40	82.0	160.0	160.0	41.9	79.0	47.0
HMDE50	97.0	190.0	190.0	52.2	92.0	52.0
HMDE63	113.5	215.0	215.0	65.2	110.0	61.5
HMDE75	136.0	245.0	245.0	76.6	129.0	78.0
HMDE90	152.5	290.0	290.0	93.0	160.0	99.5
HMDE110	182.0	340.0	340.0	111.5	187.0	117.0



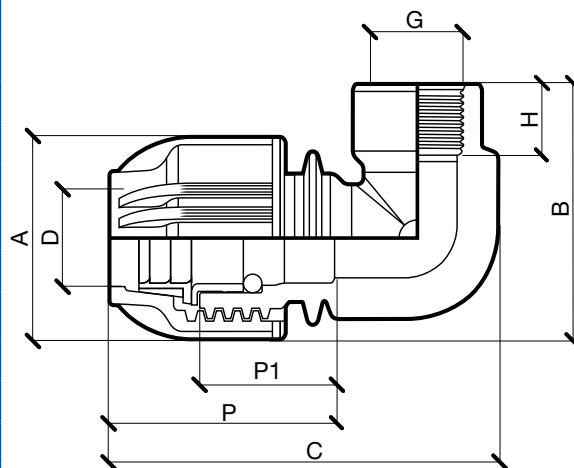
Dimensions: Medium Density Male Elbow Code: HMDME

Hansen Code	A	B	C	D	G	H	P	P1
HMDME2015	46.3	60.0	93.0	22.3	1/2	14.9	56.0	36.0
HMDME2020	46.3	60.0	93.0	22.3	3/4	17.2	56.0	36.0
HMDME2520	53.4	60.0	98.0	26.9	3/4	17.2	55.0	37.0
HMDME2525	53.4	65.0	98.0	26.9	1	19.7	55.0	37.0
HMDME3220	65.0	77.0	119.0	34.2	3/4	16.5	69.0	40.0
HMDME3225	65.0	81.0	119.0	34.2	1	20.0	69.0	40.0
HMDME3232	65.0	85.0	119.0	34.2	1-1/4	22.0	69.0	40.0
HMDME4025	82.0	108.0	145.0	41.9	1	20.0	79.0	47.0
HMDME4032	82.0	108.0	145.0	41.9	1-1/4	22.0	79.0	47.0
HMDME4040	82.0	108.0	145.0	41.9	1-1/2	22.2	79.0	47.0
HMDME5040	97.0	115.0	170.0	52.2	1-1/2	22.2	92.0	52.0
HMDME5050	97.0	120.0	170.0	52.2	2	27.0	92.0	52.0
HMDME6340	113.5	140.0	195.0	65.2	1-1/2	22.5	110.0	61.5
HMDME6350	113.5	140.0	195.0	65.2	2	27.0	110.0	61.5
HMDME6363	113.5	140.0	195.0	65.2	2-1/2	29.5	110.0	61.5
HMDME7563	136.0	170.0	230.0	76.6	2-1/2	30.0	129.0	78.0
HMDME7575	136.0	170.0	230.0	76.6	3	33.7	129.0	78.0
HMDME9075	152.5	190.0	285.0	93.0	3	33.0	160.0	99.5
HMDME90100	152.5	190.0	285.0	93.0	4	38.7	160.0	99.5
HMDME110100	182.0	220.0	325.0	111.5	4	38.0	187.0	117.0



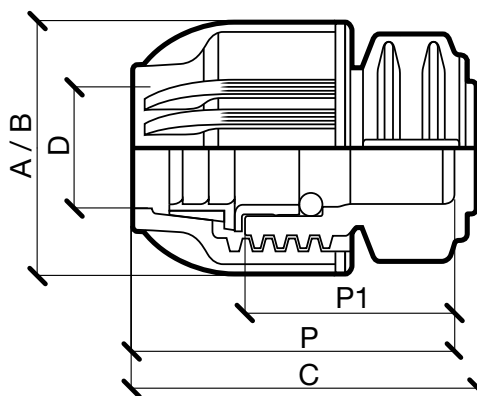
Dimensions: Medium Density Female Elbow Code: HMDFE

Hansen Code	A	B	C	D	G	H	P	P1
HMDFE2015	46.3	60.0	92.5	22.3	1/2	16.0	55.0	36.0
HMDFE2020	46.3	62.0	92.5	22.3	3/4	19.0	56.0	36.0
HMDFE2515	53.4	63.0	97.5	26.9	1/2	16.0	55.0	37.0
HMDFE2520	53.4	68.0	98.0	26.9	3/4	19.0	55.0	37.0
HMDFE2525	53.4	70.0	98.0	26.9	1	20.0	55.0	37.0
HMDFE3220	65.0	78.0	120.0	34.2	3/4	19.0	69.0	40.0
HMDFE3225	65.0	80.0	120.0	34.2	1	20.0	69.0	40.0
HMDFE3232	65.0	85.0	120.0	34.2	1-1/4	21.0	69.0	40.0
HMDFE4032	82.0	80.0	145.0	41.9	1-1/4	21.2	79.0	47.0
HMDFE4040	82.0	110.0	145.0	41.9	1-1/2	25.0	79.0	47.0
HMDFE5040	97.0	110.0	166.0	52.2	1-1/2	23.5	92.0	52.0
HMDFE5050	97.0	125.0	170.0	52.2	2	25.0	92.0	52.0
HMDFE6340	113.5	115.0	200.0	65.2	1-1/2	24.0	110.0	61.5
HMDFE6350	113.5	115.0	200.0	65.2	2	25.0	110.0	61.5
HMDFE7563	136.0	130.0	230.0	76.6	2-1/2	29.0	129.0	78.0
HMDFE7575	136.0	175.0	230.0	76.6	3	33.0	129.0	78.0
HMDFE9075	152.5	180.0	280.0	93.0	3	32.7	160.0	99.5
HMDFE90100	152.5	200.0	290.0	93.0	4	39.0	160.0	99.5
HMDFE110100	182.0	215.0	330.0	111.5	4	38.9	187.0	117.0



Dimensions: Medium Density End Cap Code: HMDEC

Hansen Code	A/B	C	D	P	P1
HMDEC20	46.3	65.0	22.3	59.0	41.1
HMDEC25	53.4	67.0	26.9	59.5	42.3
HMDEC32	65.0	79.0	34.2	74.0	45.6
HMDEC40	82.0	91.5	41.9	85.0	52.0
HMDEC50	97.0	115.0	52.2	104.0	64.0
HMDEC63	113.5	140.0	65.2	125.0	77.0
HMDEC75	136.0	160.0	76.6	144.0	88.0
HMDEC90	152.5	188.0	93.0	152.0	89.0
HMDEC110	182.0	220.0	111.5	175.0	102.0



Easy Fit Compression Fittings Features

HIGH QUALITY THREADS

for dependable high pressure connections

EASY GRIP NUTS

Make fast work for tightening fitting onto pipe

MADE FROM HIGH QUALITY DURABLE MATERIALS

Manufactured in NZ using Best Quality Materials to withstand NZ's harsh weather conditions

WATERMARK APPROVED

WaterMark Certificate of Conformity – Level 1 Evaluated to: AS/NZS 4129:2008 - Fittings for polyethylene (PE) pipes for pressure applications Certification No: WMKA21978



EASY TO INSTALL

Reliable leak proof seals are the hallmark of any Hansen fitting and that's no exceptions when it comes to the Easy Fit Compression range. The simple installation steps make a breeze

1. Cut the pipe with pipe cutters, knife or saw. Ensure a square cut of pipe ends. Clean burrs from pipe ends. Keep the pipe end clean and as free of scratches and imperfections as possible.

2. Undo the nut to the last thread, do not remove nut from the body.

3. Insert the pipe into the fitting through the Nut, White Grip Ring & Thrust Ring until it meets resistance at the O-Ring. Give the pipe a firm push past the O-Ring all the way until it hits the final stop point.

4. Firmly hand tighten the nut. Use a pair of poly grips for a further half turn past hand tight for final tightening on 40mm fittings and greater.

The hydraulic seal is created when the pipe passes the O-ring. Tightening the nut is to achieve pull out resistance of the pipe.

RELIABLE O-RING & POSITIVE GRIP RING

World proven combination for a reliable watertight seal.

HIGH PRESSURE RATED
 16bar/235psi for sizes 20mm to 63mm
 12.5bar/182psi for sizes 75mm to 110mm

LARGE RANGE

Over 200 fittings in sizes 20mm to 110mm provides more options & versatility in new and existing installations, saving time and money

HANSEN

The Reliable and World Proven Pipe Connection

Easy Fit Compression Fittings

www.hansenproducts.co.nz

HDB2161408





True Fit Threaded Fittings Features and Benefits

- Largest range of durable, high strength, commercial quality Threaded Pipe Fittings in the Southern Hemisphere
- Precision Heavy Duty Tapered Threads give a Strong Reliable Seal
- Manufactured from a Raw Material Approved For Use With Potable (drinkable) Water
- Manufactured from High Quality Glass Fibre Reinforced Nylon giving a Weather, Termite, Fungi & Bacteria Resistant
- Common Applications Include Horticultural, Agricultural, Irrigation, Marine & Plumbing
- Material strong enough to minimise potential cross threading
- WRAS - Approval for use with potable (drinkable) water as they will not leach contaminants into the water.
- Suitable for use above or below ground in varying operating pressures and temperatures
- Strong, Lightweight and Compact
- Available in a variety of thread combinations and connections.
- New Zealand Made

True Fit Threaded Fittings Approvals

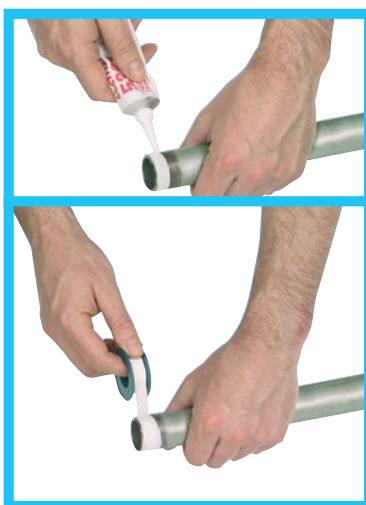
WRAS approval means that HANSEN[™] *True Fit* Threaded Fittings are approved for use with potable (drinkable) water, and that they will not leach contaminants into the water. The Water Research Council in the UK is the highest recognised water testing organisation in the world and we believe HANSEN[™] are the only plastic threaded pipe fitting in Australasia to achieve this standard. To see the range of Hansen *True Fit* Threaded Fittings that have been approved by WRAS please visit our website <http://www.hansenproducts.co.nz/approvals>

AS/NZS 4020 HANSEN[™] *True Fit* Threaded Fittings from 6mm to 100mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

See our website for further details.

True Fit Threaded Fittings Quick & Easy Installation

- All pipe work must be adequately supported.
- Use a thread sealant on all threaded connections. We recommend Loctite 5331.
- If you are using chemicals or have any special requirements that you wish to use your Threaded Pipe Fitting in, go to the Threaded Chemical resistance Page or don't hesitate to contact us.
- Please refer to the dimensions Pages for Minimum Recommended Hole Sizes.



1 (a) Use a thread paste sealant or

(b) a teflon tape sealant. The right sealant for threaded joints is non-hardening, compatible with plastic and doesn't add slipperiness to encourage over-torquing.

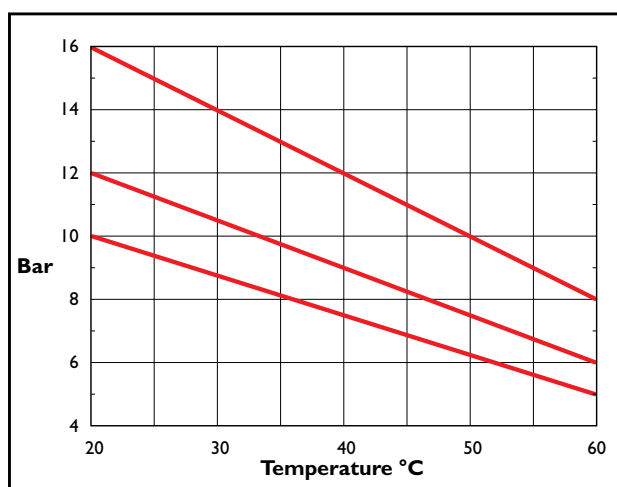


2 Screw pipe into fitting.



Do not over tighten. The recommended way to assemble a Threaded Pipe Fitting is hand tight. Tighten until firm with spanner or pipe grip. One to two turns should be all that is required.

True Fit Pipe Fittings Maximum Working Pressures



Graph indicates fittings used with WATER only and being installed to Hansens Specifications

Fitting Size	MAX PRESSURE @ 20 Degrees Celsius
15mm - 50mm	16 Bar (1600 kPa. 235 psi)
65mm	12 Bar (1200 kPa. 175 psi)
80mm	10 Bar (1000 kPa. 145 psi)
100mm	10 Bar (1000 kPa. 145 psi)

Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

True Fit Threaded Fittings Chemical Resistance Chart

For Nut & Hose Tail
 Chemical Resistance
 Information please refer
 to *True Fit* Tank Fittings
 Chemical Resistance
 Chart Section 12, Page 5

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong		X	
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel	X		
Automotive Lubricants	X		
Hydraulic Fluids		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents		X	
Hydrocarbons	X		
Halogens			X
Alcohols		X	
Aldehydes			X
Amines			X
Esters	X		
Ethers	X		
Ketones		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide		X	
Phenols			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

True Fit Threaded Fittings Frequently Asked Questions

Q How tight should I tighten my fittings?

A Do not over tighten. The right way to assemble a threaded fitting is hand tight plus one to two turns-no more! For more information on installation tips refer to the installation Page.

Q Do I need to support my fittings?

A Yes. All pipe work must be adequately supported.

Q What type of sealant should I use?

A Use a thread sealant on all threaded connections. We recommend Loctite 5331.

Q Can I use these fittings with metal fittings?

A Yes. For more information on installation tips refer to the installation Page.

Q Can I use my Hansen fittings with my swimming pool/spa pool set up?

A No, as the high concentration of chlorine used in the water for pools, will attack the material. The fitting material is only suitable for use with domestic water. Hansen products that are used in this application will not be covered by warranty.

Q What temperature can I use Hansen fittings at?

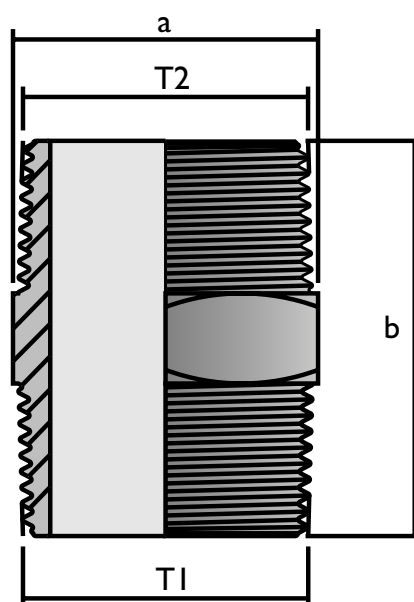
A Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

Dimensions

Hex Nipple Code: HSN

Product Guide	T1 BSPT	T2 BSPT	a (AF) mm	b mm
HSN06	1/8" (06mm)	1/8" (06mm)	11	26
HSN08	1/4" (08mm)	1/4" (08mm)	14	33
HSN10	3/8" (10mm)	3/8" (10mm)	18	34
HSN15	1/2" (15mm)	1/2" (15mm)	22	43
HSN20	3/4" (20mm)	3/4" (20mm)	28.5	46.5
HSN25	1" (25mm)	1" (25mm)	35	53
HSN32	1 1/4" (32mm)	1 1/4" (32mm)	44	59.5
HSN40	1 1/2" (40mm)	1 1/2" (40mm)	50	60.5
HSN50	2" (50mm)	2" (50mm)	62	70
HSN65	2 1/2" (65mm)	2 1/2" (65mm)	78.5	77
HSN80	3" (80mm)	3" (80mm)	91.6	84
HSN100	4" (100mm)	4" (100mm)	117	97

AF = Across Flats

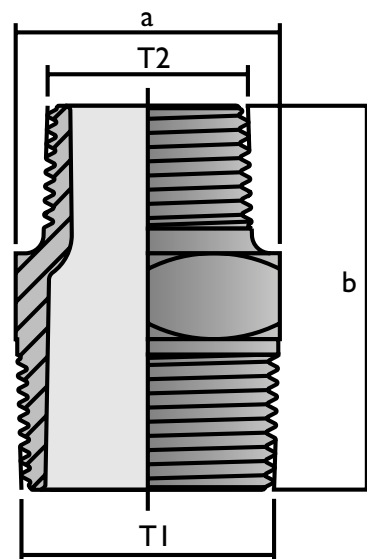


Specifications and sizes may change without prior notice

Dimensions

Reducing Hex Nipple Code: HRHN

Product Code	T1 BSPT	T2 BSPT	a (AF) mm	b mm
HRHN0806	1/4" (08mm)	1/8" (06mm)	14	31
HRHN1006	3/8" (10mm)	1/8" (06mm)	18	33
HRHN1008	3/8" (10mm)	1/4" (08mm)	18.5	34.5
HRHN1506	1/2" (15mm)	1/8" (06mm)	22.5	37.3
HRHN1508	1/2" (15mm)	1/4" (08mm)	22.5	39
HRHN1510	1/2" (15mm)	3/8" (10mm)	26	50.5
HRHN2010	3/4" (20mm)	3/8" (10mm)	31	55.5
HRHN2015	3/4" (20mm)	1/2" (15mm)	28.5	48
HRHN2515	1" (25mm)	1/2" (15mm)	35	51.5
HRHN2520	1" (25mm)	3/4" (20mm)	35.5	54
HRHN3220	1 1/4" (32mm)	3/4" (20mm)	45	66
HRHN3225	1 1/4" (32mm)	1" (25mm)	44	60
HRHN4020	1 1/2" (40mm)	3/4" (20mm)	51.5	68
HRHN4025	1 1/2" (40mm)	1" (25mm)	50	64.5
HRHN4032	1 1/2" (40mm)	1 1/4" (32mm)	50	62
HRHN5020	2" (50mm)	3/4" (20mm)	63.5	73
HRHN5025	2" (50mm)	1" (25mm)	63	74
HRHN5032	2" (50mm)	1 1/4" (32mm)	63	73
HRHN5040	2" (50mm)	1 1/2" (40mm)	62.5	70
HRHN6532	2 1/2" (65mm)	1 1/4" (32mm)	79	79.5
HRHN6540	2 1/2" (65mm)	1 1/2" (40mm)	79	77
HRHN6550	2 1/2" (65mm)	2" (50mm)	79	78
HRHN8040	3" (80mm)	1 1/2" (40mm)	91.5	86
HRHN8050	3" (80mm)	2" (50mm)	91.5	86
HRHN8065	3" (80mm)	2 1/2" (65mm)	92	85
HRHN10050	4" (100mm)	2" (50mm)	116.5	101.5
HRHN10065	4" (100mm)	2 1/2" (65mm)	117	100
HRHN10080	4" (100mm)	3" (80mm)	117	98.5

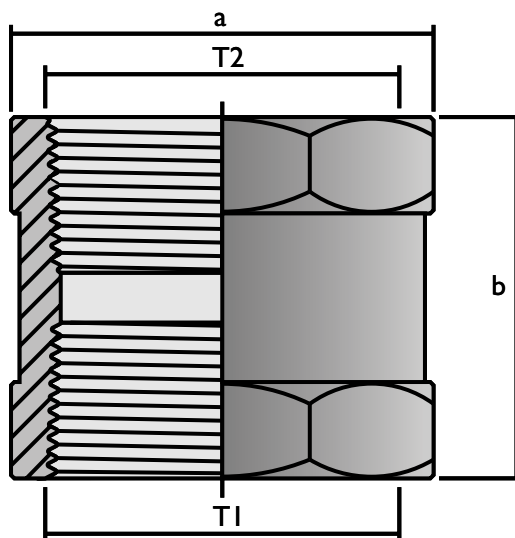


AF = Across Flats

Dimensions

Hex Socket Code: HSS

Product Code	T1 BSPT	T2 BSPT	a mm	b mm
HSS15	1/2" (15mm)	1/2" (15mm)	28	41.5
HSS20	3/4" (20mm)	3/4" (20mm)	34	43.5
HSS25	1" (25mm)	1" (25mm)	41	47.5
HSS32	1 1/4" (32mm)	1 1/4" (32mm)	51.5	51.5
HSS40	1 1/2" (40mm)	1 1/2" (40mm)	58	55
HSS50	2" (50mm)	2" (50mm)	72	61.5
HSS65	2 1/2" (65mm)	2 1/2" (65mm)	92.5	68
HSS80	3" (80mm)	3" (80mm)	110	74
HSS100	4" (100mm)	4" (100mm)	137.5	87.5



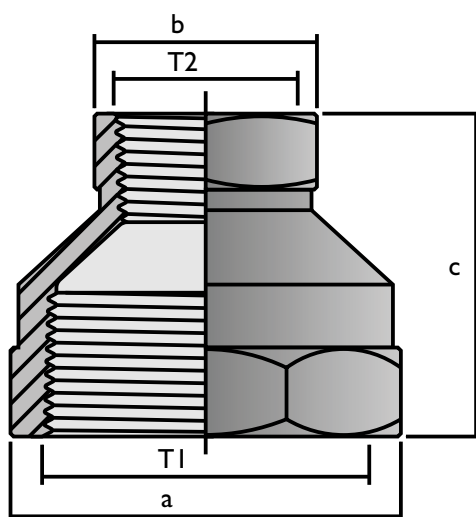
Specifications and sizes may change without prior notice

Dimensions

Reducing Hex Socket Code: HSRS

Product Code	T1 BSPT	T2 BSPT	a (AF) mm	b (AF) mm	c mm
HSRS2015	3/4" (20mm)	1/2" (15mm)	34	28	42.5
HSRS2515	1" (25mm)	1/2" (15mm)	41.5	28	47.5
HSRS2520	1" (25mm)	3/4" (20mm)	41.5	34	45.5
HSRS3220	1 1/4" (32mm)	3/4" (20mm)	51.5	34	52
HSRS3225	1 1/4" (32mm)	1" (25mm)	51	41.5	49
HSRS4020	1 1/2" (40mm)	3/4" (20mm)	58.5	34	52
HSRS4025	1 1/2" (40mm)	1" (25mm)	58	41	51.5
HSRS4032	1 1/2" (40mm)	1 1/4" (32mm)	58	51	53
HSRS5020	2" (50mm)	3/4" (20mm)	71.5	34.5	60.5
HSRS5025	2" (50mm)	1" (25mm)	71.5	41	59.5
HSRS5032	2" (50mm)	1 1/4" (32mm)	71.5	51	61.5
HSRS5040	2" (50mm)	1 1/2" (40mm)	71.5	58	58
HSRS6540	2 1/2" (65mm)	1 1/2" (40mm)	92.5	59	70
HSRS6550	2 1/2" (65mm)	2" (50mm)	92.5	72.5	69
HSRS8050	3" (80mm)	2" (50mm)	110	72.5	78.5
HSRS8065	3" (80mm)	2 1/2" (65mm)	110	92.5	73
HSRS10065	4" (100mm)	2 1/2" (65mm)	37	93	94.5
HSRS10080	4" (100mm)	3" (80mm)	137.5	110	90.5

AF = Across Flats

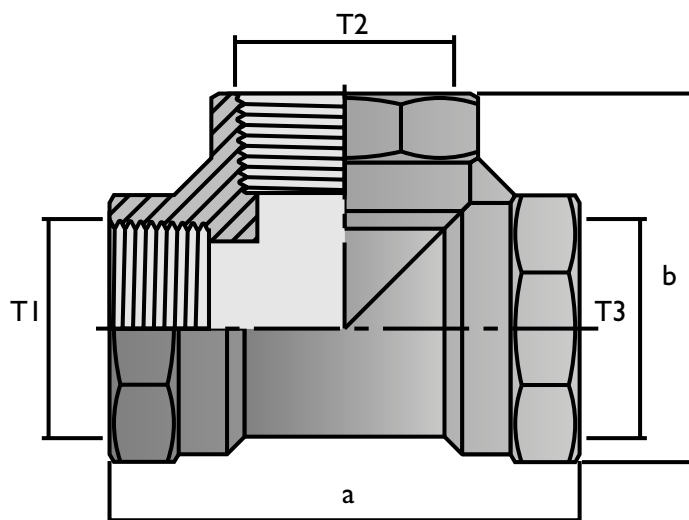


Specifications and sizes may change without prior notice

Dimensions

Female Threaded Tee Code: HTT

Product Code	T1 BSPT	T2 BSPT	T3 BSPT	a mm	b mm
HTT15	1/2" (15mm)	1/2" (15mm)	1/2" (15mm)	60	46
HTT20	3/4" (20mm)	3/4" (20mm)	3/4" (20mm)	67.5	53.5
HTT25	1" (25mm)	1" (25mm)	1" (25mm)	80	63.5
HTT32	1 1/4" (32mm)	1 1/4" (32mm)	1 1/4" (32mm)	93.5	76
HTT40	1 1/2" (40mm)	1 1/2" (40mm)	1 1/2" (40mm)	103	81
HTT50	2" (50mm)	2" (50mm)	2" (50mm)	119.5	95.5
HTT65	2 1/2" (65mm)	2 1/2" (65mm)	2 1/2" (65mm)	141	115.5
HTT80	3" (80mm)	3" (80mm)	3" (80mm)	160.5	133.5
HTT100	4" (100mm)	4" (100mm)	4" (100mm)	197.5	165.5

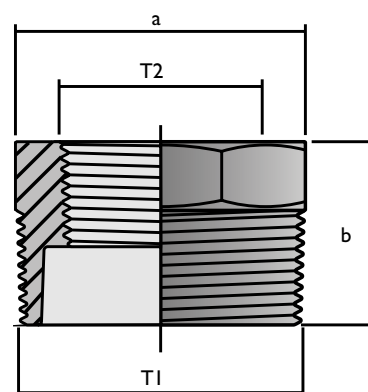


Specifications and sizes may change without prior notice

Dimensions

Reducing Bush Code: HRB

Product Code	T1 BSPT	T2 BSPT	a (AF) mm	b mm
HRB1506	1/2" (15mm)	1/8" (06mm)	22.0	23.5
HRB1508	1/2" (15mm)	1/4" (08mm)	22.0	23
HRB1510	1/2" (15mm)	3/8" (10mm)	22.0	23.5
HRB2008	3/4" (20mm)	1/4" (08mm)	29	25
HRB2010	3/4" (20mm)	3/8" (10mm)	29	25
HRB2015	3/4" (20mm)	1/2" (15mm)	29	25
HRB2508	1" (25mm)	1/4" (08mm)	35.5	27
HRB2510	1" (25mm)	3/8" (10mm)	35.5	27
HRB2515	1" (25mm)	1/2" (15mm)	35.5	27
HRB2520	1" (25mm)	3/4" (20mm)	35.5	27
HRB3215	1 1/4" (32mm)	1/2" (15mm)	43.5	31.5
HRB3220	1 1/4" (32mm)	3/4" (20mm)	43.5	31.5
HRB3225	1 1/4" (32mm)	1" (25mm)	43.5	31.2
HRB4015	1 1/2" (40mm)	1/2" (15mm)	50.0	33.5
HRB4020	1 1/2" (40mm)	3/4" (20mm)	50.5	33
HRB4025	1 1/2" (40mm)	1" (25mm)	50.5	33.5
HRB4032	1 1/2" (40mm)	1 1/4" (32mm)	50.5	33
HRB5015	2" (50mm)	1/2" (15mm)	61.5	38
HRB5020	2" (50mm)	3/4" (20mm)	61.5	38
HRB5025	2" (50mm)	1" (25mm)	61.5	38
HRB5032	2" (50mm)	1 1/4" (32mm)	61	38
HRB5040	2" (50mm)	1 1/2" (40mm)	61	38
HRB6532	2 1/2" (65mm)	1 1/4" (32mm)	79	42
HRB6540	2 1/2" (65mm)	1 1/2" (40mm)	78.5	42
HRB6550	2 1/2" (65mm)	2" (50mm)	78.5	42
HRB8040	3" (80mm)	1 1/2" (40mm)	92	45
HRB8050	3" (80mm)	2" (50mm)	92	45
HRB8065	3" (80mm)	2 1/2" (65mm)	92	45
HRB10050	4" (100mm)	2" (50mm)	117.5	51
HRB10065	4" (100mm)	2 1/2" (65mm)	117	51
HRB10080	4" (100mm)	3" (80mm)	117.5	51



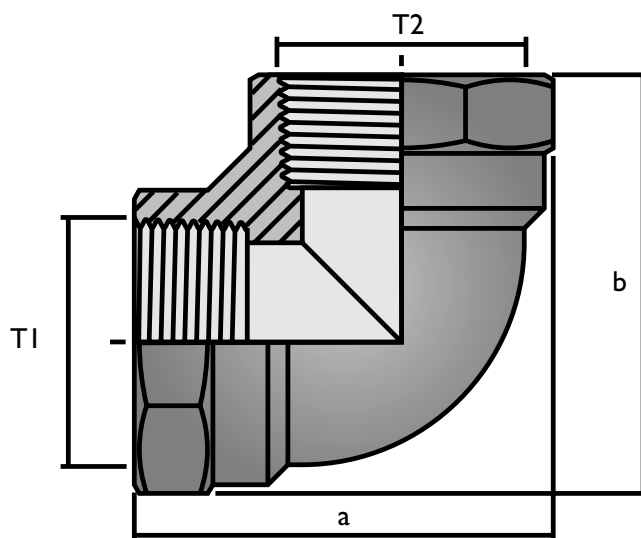
AF = Across Flats

Specifications and sizes may change without prior notice

Dimensions

Female Threaded Elbow Code: HTE

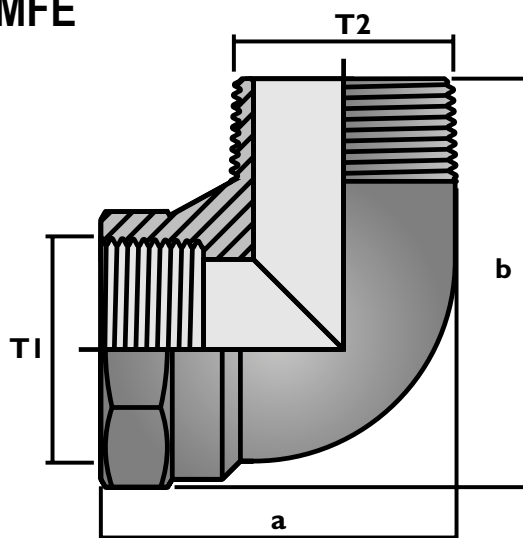
Product Code	T1 BSPT	T2 BSPT	a mm	b mm
HTE15	1/2" (15mm)	1/2" (15mm)	46.5	46.5
HTE20	3/4" (20mm)	3/4" (20mm)	53	53
HTE25	1" (25mm)	1" (25mm)	63.5	63.5
HTE32	1 1/4" (32mm)	1 1/4" (32mm)	76	76
HTE40	1 1/2" (40mm)	1 1/2" (40mm)	80.5	80.5
HTE50	2" (50mm)	2" (50mm)	95	95
HTE65	2 1/2" (65mm)	2 1/2" (65mm)	114.5	114.5
HTE80	3" (80mm)	3" (80mm)	133	133
HTE100	4" (100mm)	4" (100mm)	164.5	164.5



Dimensions

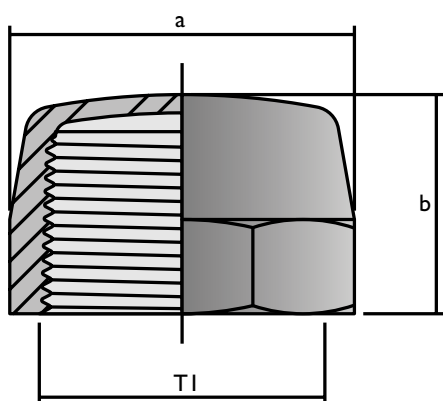
Male / Female Threaded Elbow Code: HTMFE

Product Code	T1 BSPT	T2 BSPT	a mm	b mm
HTMFE15	1/2" (15mm)	1/2" (15mm)	41	54.5
HTMFE20	3/4" (20mm)	3/4" (20mm)	48	63.5
HTMFE25	1" (25mm)	1" (25mm)	56	73
HTMFE32	1 1/4" (32mm)	1 1/4" (32mm)	67.5	84.5
HTMFE40	1 1/2" (40mm)	1 1/2" (40mm)	74.5	88
HTMFE50	2" (50mm)	2" (50mm)	88	106



Dimensions

Hex Screw Cap Code: HCP



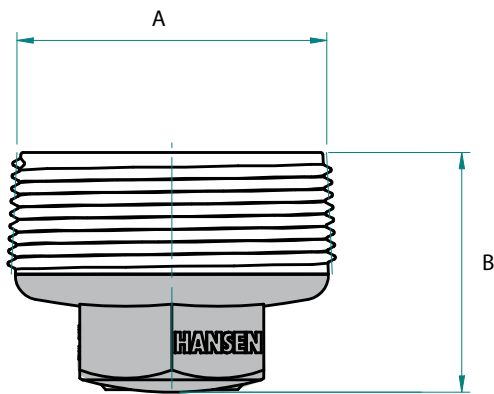
Product Code	T1 BSPT	a (AF) mm	b mm
HCP15	1/2" (15mm)	28.5	22
HCP20	3/4" (20mm)	34.5	23
HCP25	1" (25mm)	41.5	27
HCP32	1 1/4" (32mm)	52	31.5
HCP40	1 1/2" (40mm)	58.5	37
HCP50	2" (50mm)	71.5	38
HCP65	2 1/2" (65mm)	90.5	43.5
HCP80	3" (80mm)	106.5	47.5
HCP100	4" (100mm)	133.5	57

AF = Across Flats

Dimensions

Tank Plug Code: HTP

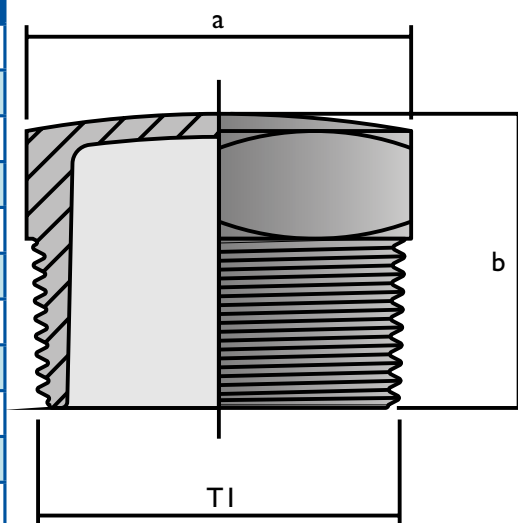
Product Code	T1 BSPF	a mm	b mm
HTP50	2" 50mm	55.8	44.3



Dimensions

Hex Screw Plug Code: HSP

Product Code	T1 BSPT	a (AF) mm	b mm
HSP06	1/8" (06mm)	11.0	16.5
HSP08	1/4" (08mm)	14	20.5
HSP10	3/8" (10mm)	18	21.5
HSP15	1/2" (15mm)	22	27.5
HSP20	3/4" (20mm)	28	29.5
HSP25	1" (25mm)	35	34
HSP32	1 1/4" (32mm)	43.5	36
HSP40	1 1/2" (40mm)	50	38
HSP50	2" (50mm)	61.5	45
HSP65	2 1/2" (65mm)	78	48.5
HSP80	3" (80mm)	91.5	51.5
HSP100	4" (100mm)	115.6	59.5

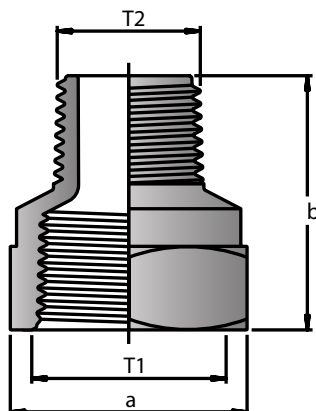


AF = Across Flats

Dimensions

Male / Female Adapter Code HMFA

Product Code	T1 BSPT	T2 BSPT	a mm	b mm
HMFA 1520	3/4" (20mm)	1/2" (15mm)	34.0	42.0

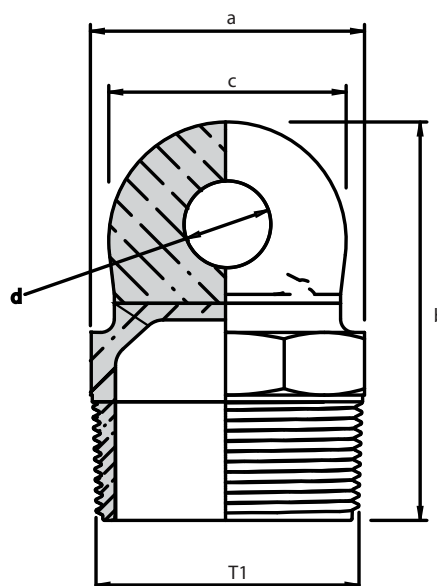


Specifications and sizes may change without prior notice

Dimensions

Tow Eye Code: PODTE45/50

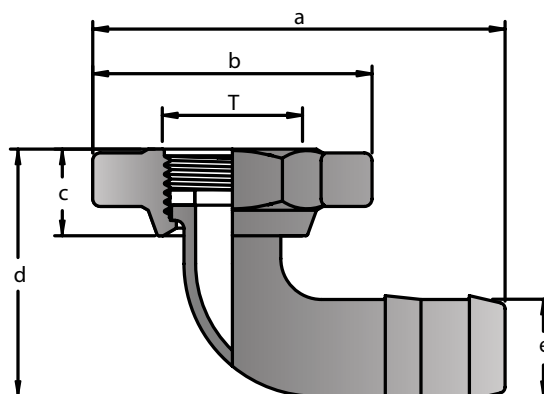
Product Code	T1	a mm	b mm	c mm	d mm
PODTE45/50	2" 50mm	61.5	89	52.5	19



Dimensions

Nut and Tail Elbow Code: HNTE

Product Code	T1 BSPT	a mm	b mm	c mm	d mm	e mm
HNTE20	3/4" (20mm)	82	55	17	49	20
HNTE25	1" (25mm)	96	64	22	63	25

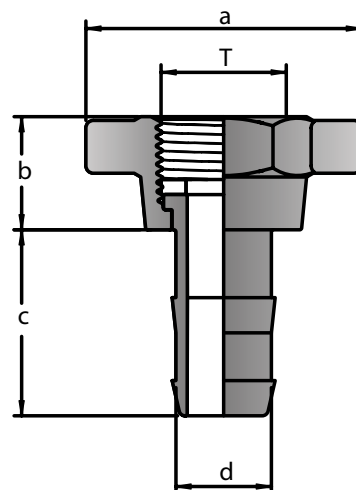


Specifications and sizes may change without prior notice

Dimensions

Nut and Hose Tail Code:HNT

Product Code	T1 BSPT	a (AF) mm	b mm	c mm	d mm
HNT15	1/2" (12mm)	48	21	32	12.5
HNT20	3/4" (20mm)	55	23	36	20
HNT2015	3/4" (20mm)	55	23	32	12.5
HNT25	1" (25mm)	64	25	41	25
HNT2515	1" (25mm)	64	25	32	12.5
HNT2520	1" (25mm)	64	25	37	20
HNT32	1 1/4" (32mm)	76	27	47	32
HNT40	1 1/2" (40mm)	82	30	55	40
HNT50	2" (50mm)	97	33	60	50
HNT80	3" (80mm)	125	33	82	76

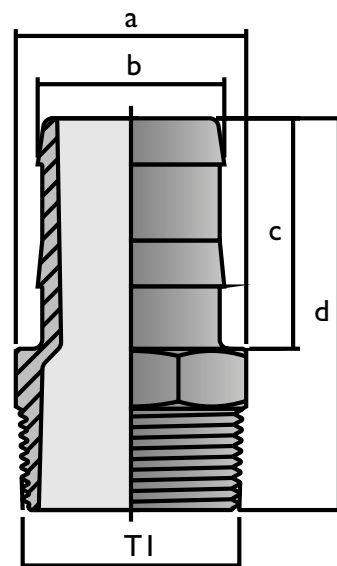


AF = Across Flats

Dimensions

Male Hose Tail Code:HHT

Product Code	T1 BSPT	a (AF) mm	b mm	c mm	d mm
HHT06	1/8" (06mm)	11	7.6	22.5	39.3
HHT08	1/4" (08mm)	14	9.5	23	44.5
HHT10	3/8" (10mm)	18	10.8	25.5	47
HHT15	1/2" (15mm)	22	14	29	55
HHT20	3/4" (20mm)	28	21.5	33	61.5
HHT25	1" (25mm)	35.5	27.8	37	67.5
HHT32	1 1/4" (32mm)	43	33.6	43	76
HHT40	1 1/2" (40mm)	50.5	41	50	85.5
HHT50	2" (50mm)	61.5	53	55	96
HHT80	3" (80mm)	90.5	78	74	125.5



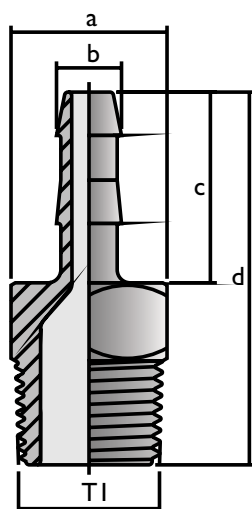
AF = Across Flats

Dimensions

Reducing Male Hose Tail Code:HRHT

Product Code	T1 BSPF	a (AF) mm	b mm	c mm	d mm
HRHT0806	1/4" (08mm)	13.9	7.5	21.5	42.7
HRHT0810	1/4" (08mm)	13.9	10.8	25.5	46.5
HRHT1006	3/8" (10mm)	17.9	7.6	22.2	43.2
HRHT1008	3/8" (10mm)	17.9	9.5	23	44.7

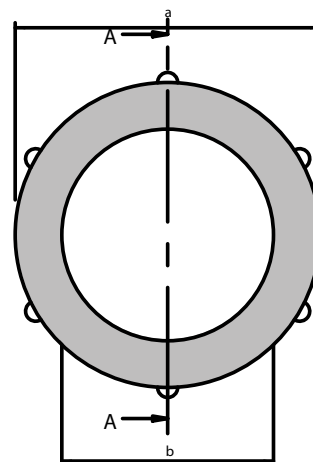
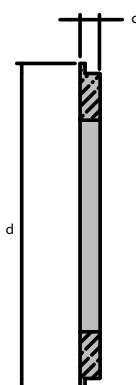
AF = Across Flats



Dimensions

Nut and Tail Washer Code: SNTW

Product Code	a mm	b mm	c mm	d mm
HNTW15	9	18.8	3	22
HNTW20	14.5	25	3	27.5
HNTW25	20	31	3	34
HNTW32	26	39.5	3	43
HNTW40	32	45	3	48
HNTW50	43.5	57.5	3	61
HNTW80	69	83	3	88

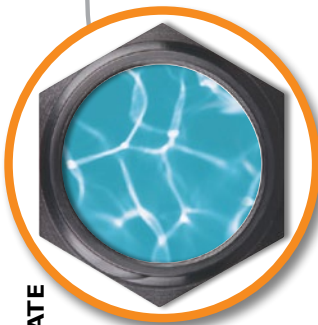


Specifications and sizes may change without prior notice

True-Fit Threaded Fittings Features

HIGH FLOW RATE

Fittings demonstrate excellent hydraulic flow characteristics



PRECISION HEAVY DUTY TAPERED THREADS

Gives a Strong Reliable Seal. Material is strong enough to minimise potential cross threading.



MADE FROM HIGH QUALITY DURABLE MATERIALS

Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance



AS/NZS 4020

WRAS
APPROVED

POTABLE WATER

APPROVED
Material Approved for use with Potable (drinkable) Water



FAST AND EASY TO INSTALL

No specialist skill required. Apply threaded sealant or tape, screw on pipe, tighten.*



1. Apply Thread Sealant or Thread Tape

2. Screw on pipe

3. Tighten

LARGE RANGE

of over 180 Durable, High Strength, Commercial Quality True Fit Pipe. Fittings available in sizes 6mm to 100mm (1/8" to 4")

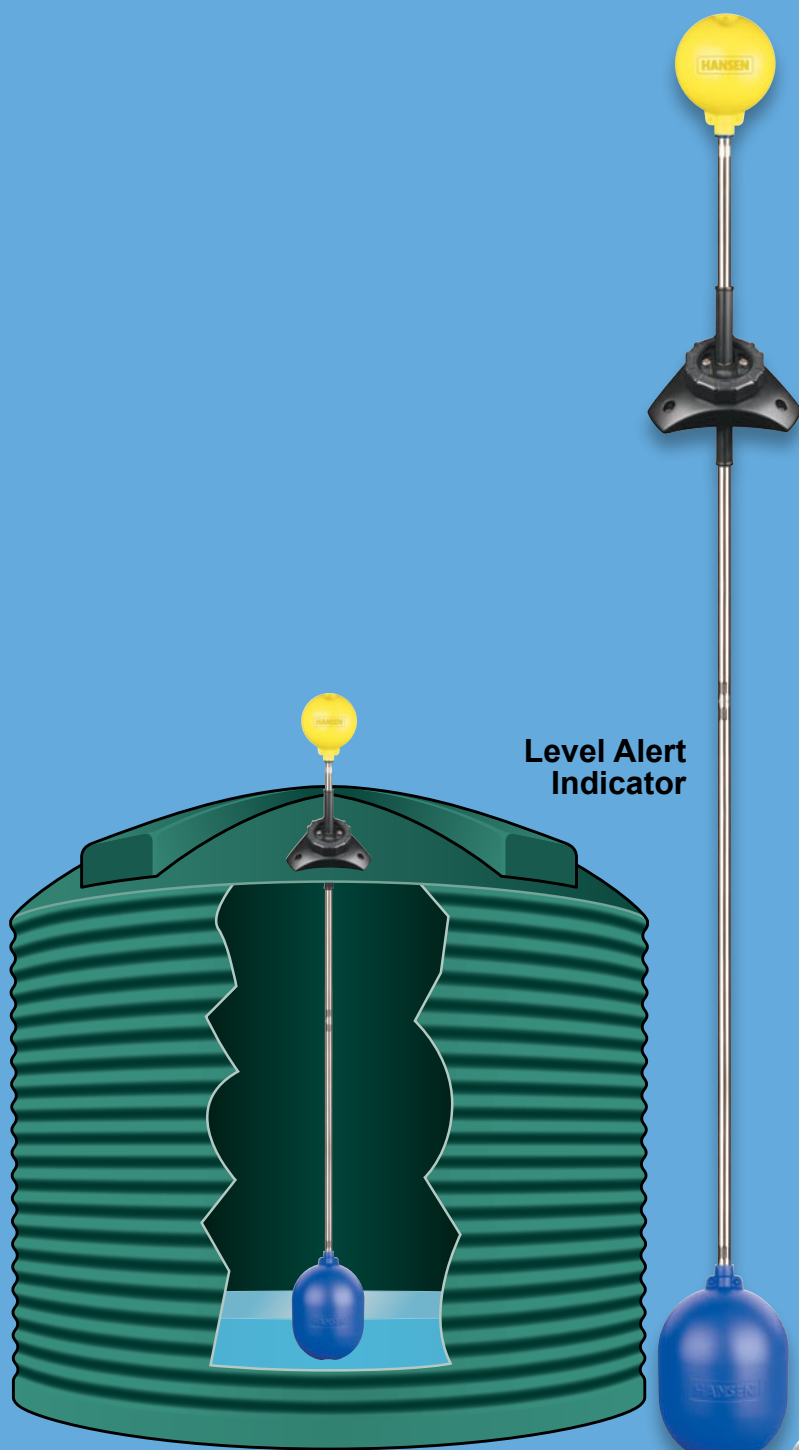


*We recommend Loctite 5331 thread sealant. All pipe work must be adequately supported.

HANSEN
True Fit Threaded Fittings

Reliable Commercial Quality Threaded Fittings

www.hansenproducts.co.nz



Female Tank Fitting

True Fit Tank Fittings Features and Benefits

- Designed for use in tanks, troughs and a wide variety of marine applications.
- Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance
- Material Approved for use with Potable (drinkable) Water making them ideally suited to a broad range of rural & domestic applications.
- An extensive range of fittings in sizes 15mm to 100mm (1/2" to 4")
- Precision Heavy Duty Tapered Threads give a Strong Reliable Seal
- Material is strong enough to minimise potential cross threading
- Fittings provide flexibility and versatility for new and existing installations, saving on time and money
- All materials are fully resistant to salt water making them ideally suited to marine applications.

True Fit Tank Fittings Approvals

AS/NZS 4020 HANSEN[™] *True Fit* Tank Fittings from 6mm to 100mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

See our website for further details.

True Fit Tank Fittings Quick & Easy Installation

- Prior to installation, refer to Tank manufacturers recommendations before drilling outlet in tank wall.
- All pipe work must be adequately supported.
- Use a thread sealant on all threaded connections. We recommend Loctite 5331.
- If you are using chemicals or have any special requirements that you wish to use your Tank Fittings in, go to the Tank Fitting Chemical Resistance Page or don't hesitate to contact us.
- Please refer opposite page for Minimum Recommended Hole Sizes.
- Check the sealing surface to ensure it is free from debris and/or scratches which could cause leakage.
- To obtain proper washer compression for fitting installation ensure the face of the washers fully contacts the tank wall.
- Tighten the nut to ensure a water tight seal. We recommend Loctite 5331.
- HANSEN™ *True Fit* Tank Fitting can be used in conjunction with metal fittings.

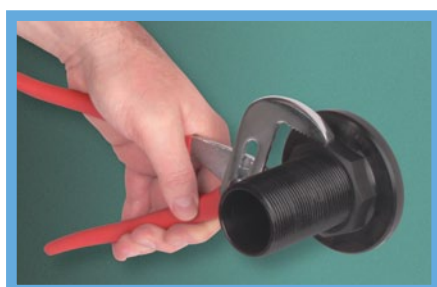
True Fit Tank Fittings Installation Steps



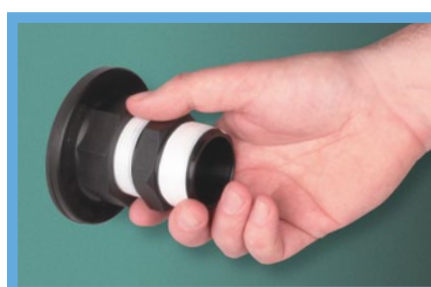
1. Remove the **Back Nut** and the **Low Density Poly Washer** (the firmer of the 2 washers) from the **Tank Fitting Body**. Slide the **Tank Fitting Body** through the hole in the tank. The **Rubber Washer** must be between the **Fitting Body Flange** and the **tank wall** (ensure the ribs on the **Rubber Washer** are sealing against the tank wall).



2. On the inside of the **tank wall**, slide the **Low Density Poly Washer** back onto the **Tank Fitting Body** and then wind on the **Back Nut**.

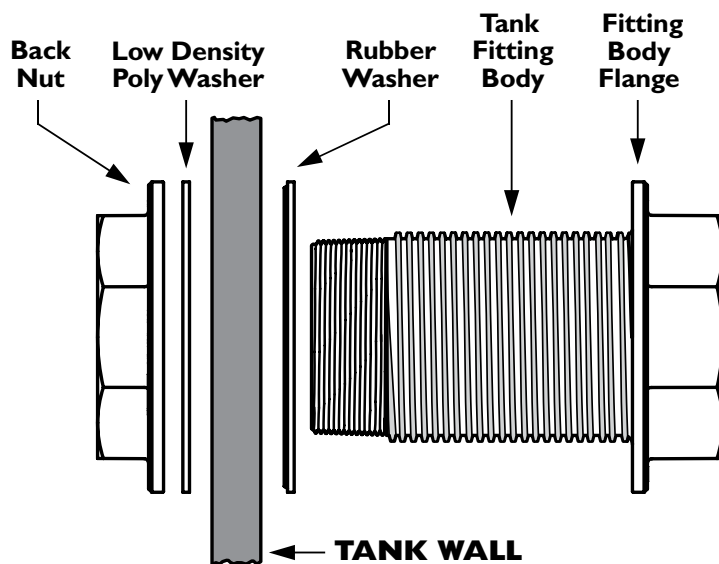


3. Tighten the **Back Nut** so that the face of both washers make full contact with the **tank wall** to obtain a water tight seal. Ensure that you comply with the tank manufacturers specifications.



4. When adding additional fittings it is recommended that either a thread sealing paste or thread sealing tape be used on all threaded connections. We recommend LOCTITE 5331

True Fit Tank Fittings Installation Steps



LARGE TANK FITTING

Tank Fitting Recommended Hole Saw Size:

15mm =	22mm	or 7/8"	Hole Saw
20mm =	27mm	or 1 1/16"	Hole Saw
25mm =	34mm	or 1 3/8"	Hole Saw
32mm =	42mm	or 1 5/8"	Hole Saw
40mm =	48mm	or 1 7/8"	Hole Saw
50mm =	60mm	or 2 3/8"	Hole Saw
80mm =	95mm	or 3 3/4"	Hole Saw
100mm =	121mm	or 4 3/4"	Hole Saw

Tank Fitting Minimum Recommended Hole Size:

Hole Size for 15mm =	22mm
Hole Size for 20mm =	27mm
Hole Size for 25mm =	34mm
Hole Size for 32mm =	42mm
Hole Size for 40mm =	48mm
Hole Size for 50mm =	60mm
Hole Size for 80mm =	95mm
Hole Size for 100mm =	121mm



True Fit Tank Fittings Pressure Rating

Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

Fitting Size	MAX PRESSURE @ 20 Degrees Celsius
15mm - 50mm	16 Bar (1600 kPa. 235 psi)
80mm	10Bar (1000kPa. 145 psi)
100mm	10 Bar (1000 kPa. 145 psi)

True Fit Tank Fittings Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong		X	
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents		X	
Hydrocarbons	X		
Halogens			X
Alcohols		X	
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide		X	
Phenols			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.



Tanks



Troughs



Boats



Homes & Pools



Camper Vans



Caravans

True Fit Tank Fittings Frequently Asked Questions

Q How tight should I tighten my fittings?

A Do not over tighten. The right way to assemble a tank fitting is hand tight plus one to two turns-no more! For more information on installation tips refer to Page 2.

Q What type of sealant should I use?

A Use a thread sealant on all tank connections. We recommend Loctite 5331.

Q Can I use these fittings with metal fittings?

A Yes. For more information on installation tips refer to Page 2.

Q Can I use my Hansen fittings with my swimming pool/spa pool set up?

A No, as the high concentration of chlorine used in the water for pools, will attack the material. The fitting material is only suitable for use with domestic water. Hansen products that are used in this application will not be covered by warranty.

Q What temperature can I use Hansen fittings at?

A Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

True-Fit Tank Fittings Features

MADE FROM HIGH QUALITY DURABLE MATERIALS
Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance

PRECISION HEAVY DUTY TAPERED THREADS
Gives a Strong Reliable Seal. Material is strong enough to minimise potential cross threading.

AS/NZS 4020 POTABLE WATER APPROVED
Material Approved for use with Potable (drinkable) Water

EASY TO INSTALL

Installing a Hansen Tank Fitting is a simple, straight forward procedure. Below is an outline of the steps. See our website for full info including hole sizes and tips.

1. Drill a hole in the tank. Remove the nut and first 'firmer' washer from fitting and insert the fitting in hole.

2. On the other side of the tank, reinsert the washer and wind the nut back on

3. Tighten the nut so that the face of both washers make full contact with the tank wall for a water tight seal. Your done!

4. When adding additional fittings, use a thread sealing paste or thread tape.

QUALITY WASHERS FOR A POSITIVE SEAL

High quality, durable Thermoplastic Elastomer Rubber & Low Density Polyethylene washers for a positive reliable seal.

COMPREHENSIVE RANGE

Female Tank Fittings available in sizes 15mm to 100mm. Male Tank Fittings available in Black or White & sizes 15mm to 50mm. Tank Plugs available in 50mm.

DEDICATED LARGE TANK FITTINGS

The Hansen 80 & 100mm Female Tank Fittings have been especially designed for larger installations with a reverse threading backnut for a stronger more positive seal.

HANSEN
True Fit Tank Fittings

Reliable Commercial Quality Tank Fittings

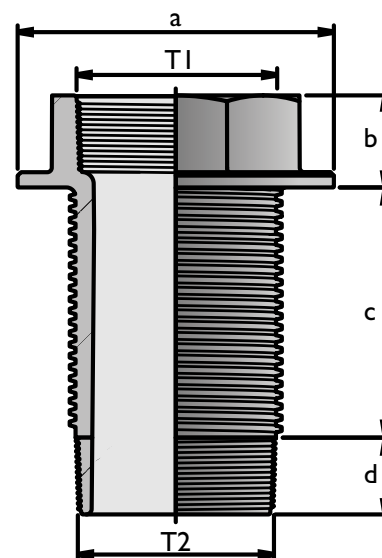
www.hansenproducts.co.nz

1051 1501

Dimensions

Female Tank Fitting Black Code: HTFFT

Product Code	T1 BSPT	T2 BSPF	a mm	b mm	c mm	d mm
HTFFT15	1/2" (15mm)	1/2" (15mm)	57	20	97	8
HTFFT20	3/4" (20mm)	3/4" (20mm)	63.5	21	96	9
HTFFT25	1" (25mm)	1" (25mm)	73	24	95	10.5
HTFFT32	1 1/4" (32mm)	1 1/4" (32mm)	83.5	25.5	93	12
HTFFT40	1 1/2" (40mm)	1 1/2" (40mm)	92	26.7	93	12
HTFFT50	2" (50mm)	2" (50mm)	105	31	90	15
HTFFT80	3" (80mm)	3" (80mm)	140	40	110	34
HTFFT100	4" (100mm)	4" (100mm)	166	47	112	41



Minimum Recommended Hole Sizes

Hole Size for HTFFT 15mm = 22mm diameter

Hole Size for HTFFT 20mm = 27mm diameter

Hole Size for HTFFT 32mm = 34mm diameter

Hole Size for HTFFT 40mm = 49mm diameter

Hole Size for HTFFT 50mm = 61mm diameter

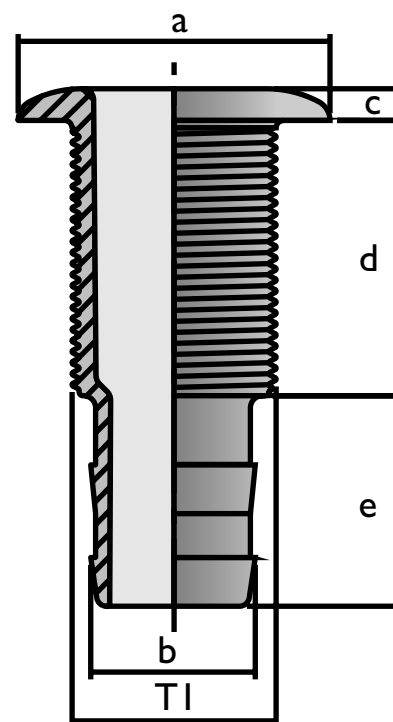
Hole Size for HTFFT 80mm = 95mm diameter

Hole Size for HTFFT 100mm = 121mm diameter

Dimensions

Male Tank Fitting Black Code: HTF

Product Code	T1 BSPF	a mm	b mm	c mm	d mm	e mm
HTF15	1/2" (15mm)	38.5	14	5.5	55	31
HTF20	3/4" (20mm)	45	21.5	6	55	35
HTF25	1" (25mm)	54	27.5	6.5	55	38
HTF32	1 1/4" (32mm)	64	33.5	7	55	43
HTF40	1 1/2" (40mm)	72	40.5	8	55	51
HTF50	2" (50mm)	84.6	52.6	8	55	55



Minimum Recommended Hole Sizes

Hole Size for HTF 15mm = 22mm diameter

Hole Size for HTF 20mm = 27mm diameter

Hole Size for HTF 32mm = 34mm diameter

Hole Size for HTF 40mm = 49mm diameter

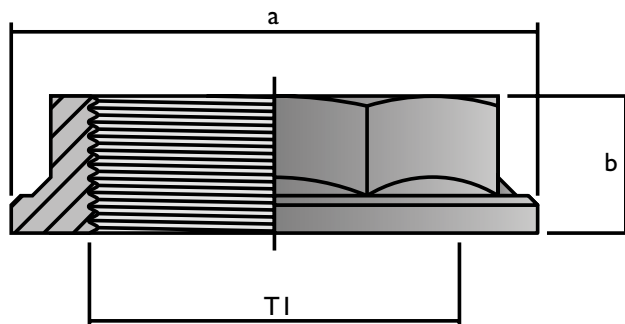
Hole Size for HTF 50mm = 61mm diameter

Specifications and sizes may change without prior notice

Dimensions

Back Nut Black and White Code: HBN and HBNW

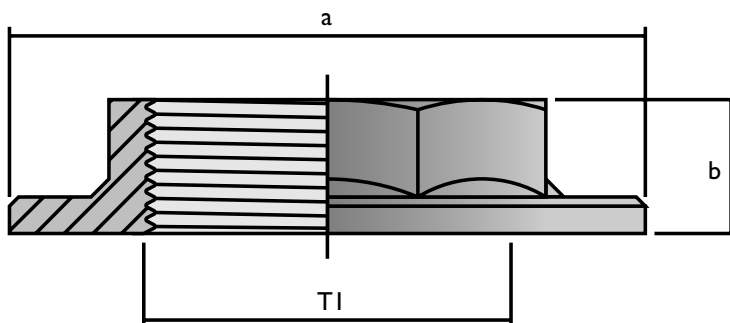
Product Code	T1 BSPF	a mm	b mm
HBN15	1/2" (15mm)	39	17
HBN20	3/4" (20mm)	46	18
HBN25	1" (25mm)	55	19
HBN32	1 1/4" (32mm)	65	20
HBN40	1 1/2" (40mm)	73	21
HBN50	2" (50mm)	86	22



Dimensions

Large Back Nut Black Code: HBNL

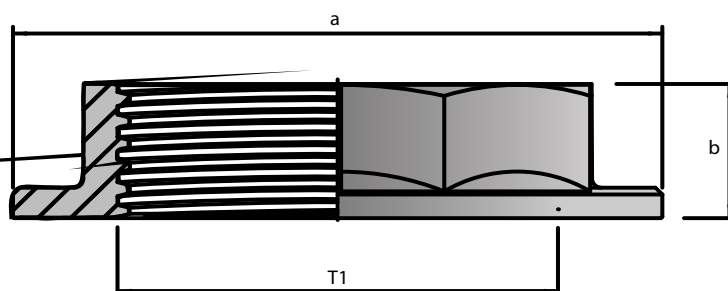
Product Code	T1 BSPF	a mm	b mm
HBNL15	1/2" (15mm)	57.5	17
HBNL20	3/4" (20mm)	64	18
HBNL25	1" (25mm)	73.5	19
HBNL32	1 1/4" (32mm)	84	20
HBNL40	1 1/2" (40mm)	93	21
HBNL50	2" (50mm)	106	22



Dimensions

Back Nut Left Hand Thread Code: HBN

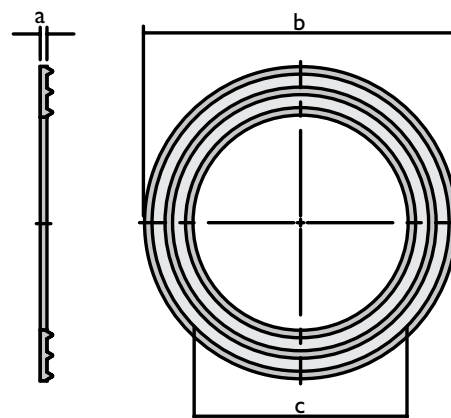
Product Code	T1 BSPF	a mm	b mm
HBN80	92mm	140.5	29
HBN100	116.5mm	166.5	31



Dimensions

Female Tank Fitting Rubber and LDPE Washer Black Code: HWL and HWL (P)

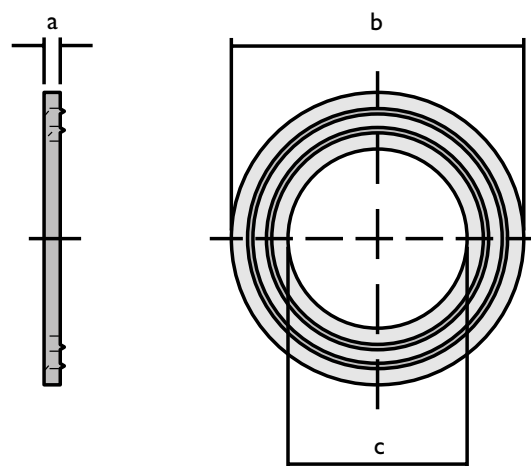
Product Code	a mm	b mm	c mm
HWL and HWL15 (P)	2.8	57.0	20.9
HWL and HWL20 (P)	2.8	63.5	26.4
HWL and HWL25 (P)	3.0	73.2	33.2
HWL and HWL32 (P)	3.0	83.5	42.6
HWL and HWL40 (P)	3.3	91.3	48.0
HWL and HWL50 (P)	3.3	104.2	59.8



Dimensions

Male Tank Fitting LDPE Washer Black and White Code: HW (PB) and PW

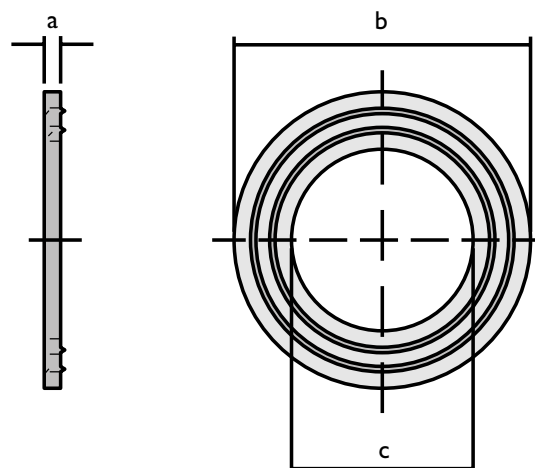
Product Code	a mm	b mm	c mm
HW (PB) and PW15	2.8	38.6	20.9
HW (PB) and PW20	2.8	45.4	26.4
HW (PB) and PW25	3.0	54.2	33.2
HW (PB) and PW32	3.0	64.3	42.6
HW (PB) and PW40	3.3	72.0	48.0
HW (PB) and PW50	3.3	84.6	59.8



Dimensions

Male Tank Fitting Rubber Washer Black and White Code: HW and HRWW

Product Code	a mm	b mm	c mm
HW and HRWW15	2.8	38.6	20.9
HW and HRWW20	2.8	45.4	26.4
HW and HRWW25	3.0	54.2	33.2
HW and HRWW32	3.0	64.3	42.6
HW and HRWW40	3.3	72.0	48.0
HW and HRWW50	3.3	84.6	59.8



Specifications and sizes may change without prior notice

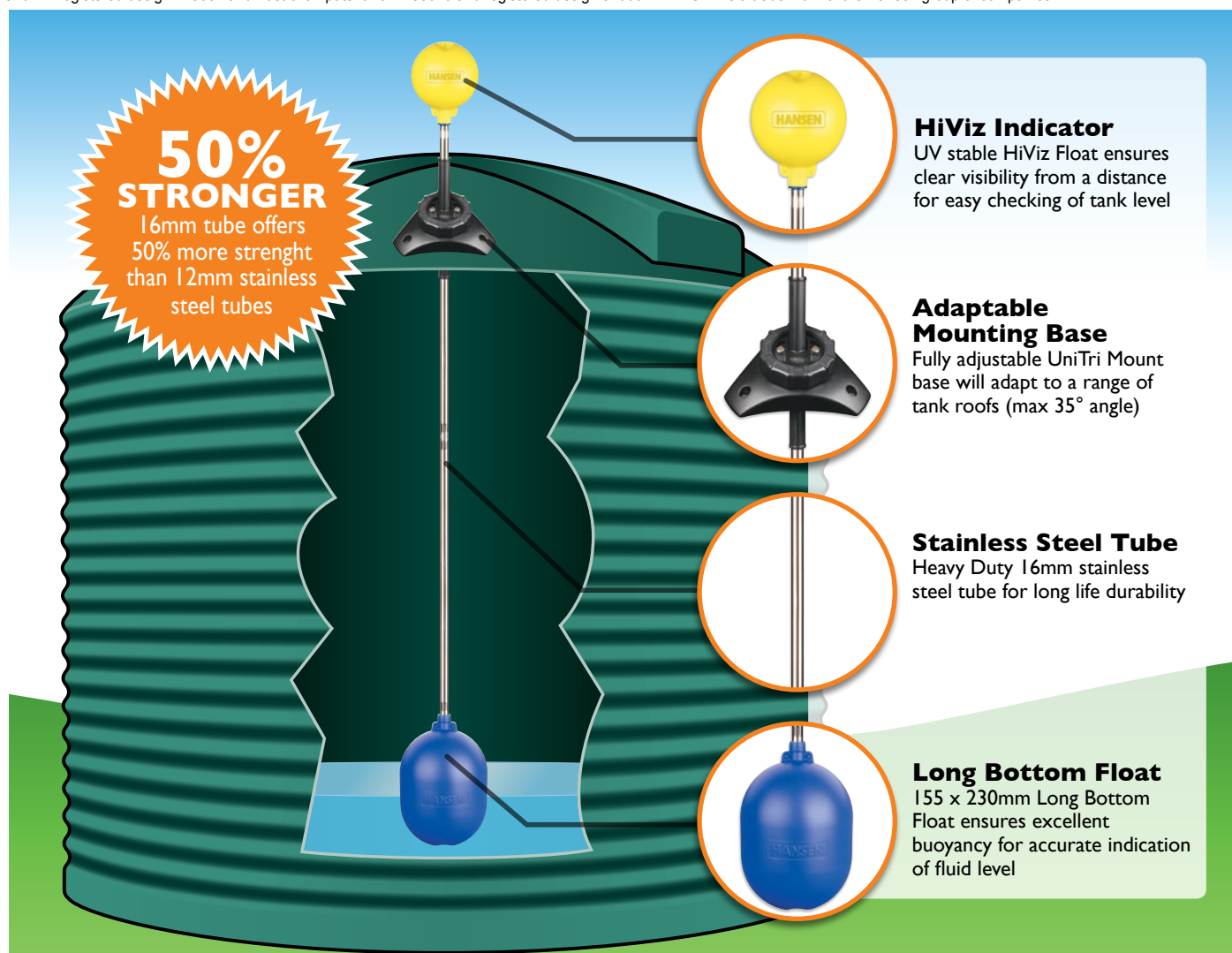
Level Alert Features and Benefits

Level Alert Technical Information

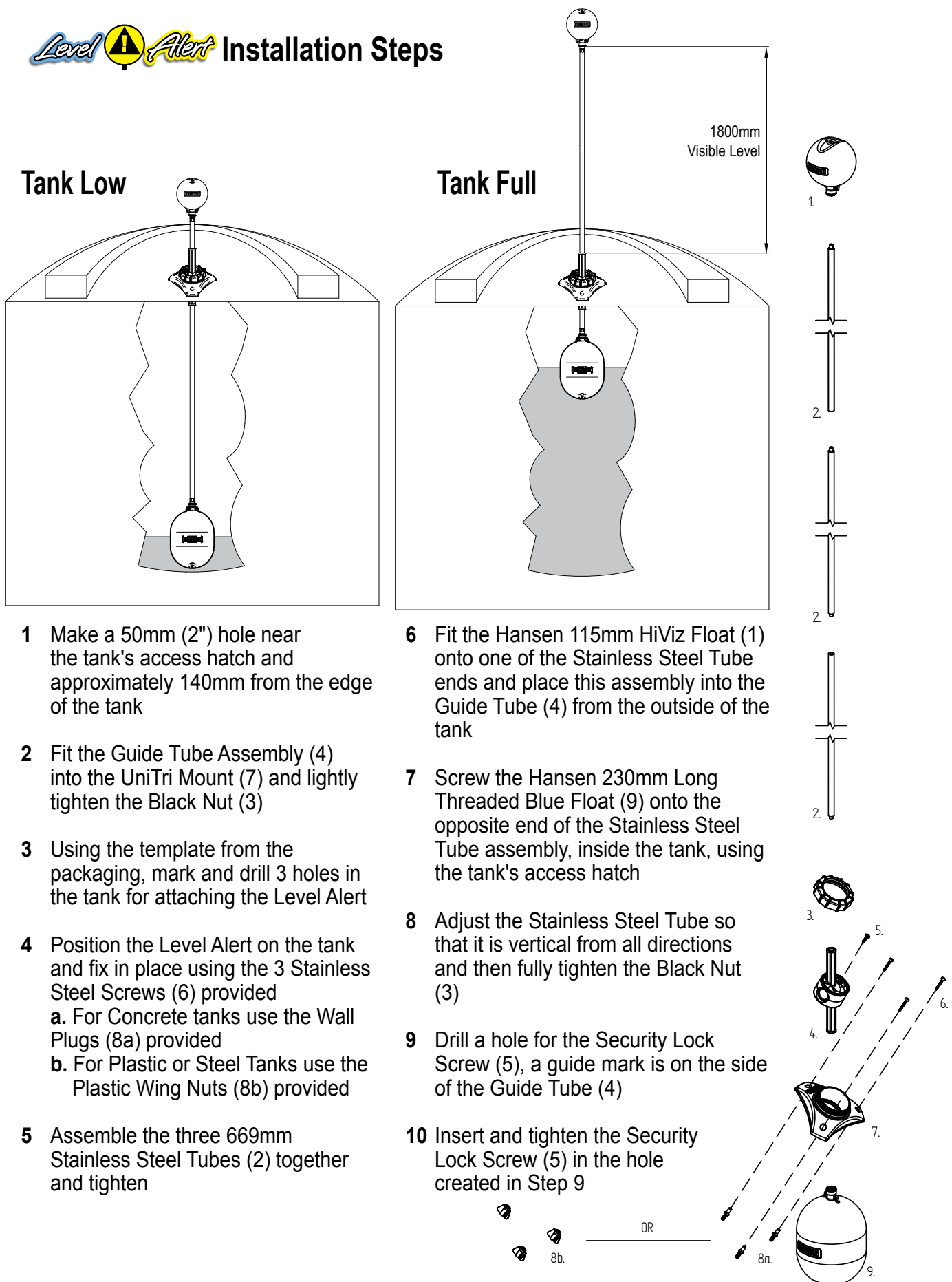
Monitor Water Levels

- ✓ Prevent Pump Burnout caused by Dry Tank Syndrome
- ✓ See at a glance your tank water level
- ✓ Suitable for any type or size tank
- ✓ Essential part of your water management
- Fully Adjustable UniTri mounting base
- UniTri mount will adapt to a range of tank roof angles (max 35° angle)
- Suitable for Plastic, Concrete and Steel Tanks
- Manufactured from UV resistant durable, Glass Fibre Reinforced Nylon with Stainless Steel Tubes (16mm diameter) and Stainless Steel Fastenings
- Complete with all mounting fastenings for all applications
- Optional Stainless Steel Extension tubes available (669mm)
- Supplied with 3 lengths of 669mm Heavy Duty Stainless Steel Tube (16mm diameter), Stainless Steel Fastenings, 115mm Threaded HiViz Float, 230mm Long Threaded Blue Float, UniTri Mounting Base

The Level Alert in this catalogue is protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia & other countries, including NZ patent 596360 and NZ registered design 415007 and Australian patent 2012203010 and registered design 340061. HANSEN is a trade mark of the Hansen group of companies.



Level Alert Installation Steps

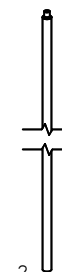


Level Alert Parts List

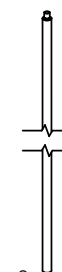
Level Alert Parts List			
No.	Product Code	Item Name	Qty
1	HFLOAT115HI	115mm HiViz Threaded Float	1
2	HLASSTUBE	669mm Stainless Steel Tube (16mm Diameter)	3
3	HLANUTB	Black Cap Nut	1
4	HLAGUIDE	Guide Tube Assembly	1
5	HLALSCREW	Security Lock Screw	1
6	HLAMSCREW	UniTri Mount Screw s	3
7	HLAUNIMOUNT	UniTri Mount	1
8a	HLAPLUGS	Wall Plugs	3
8b	HLANUTS	Plastic Wing Nuts	3
9	HFLOAT230L	155mm x 230mm Long Float Blue	1



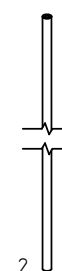
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2.



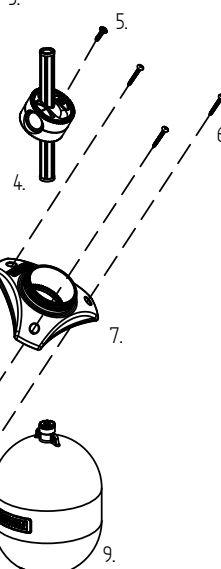
2.



2.



3.



OR

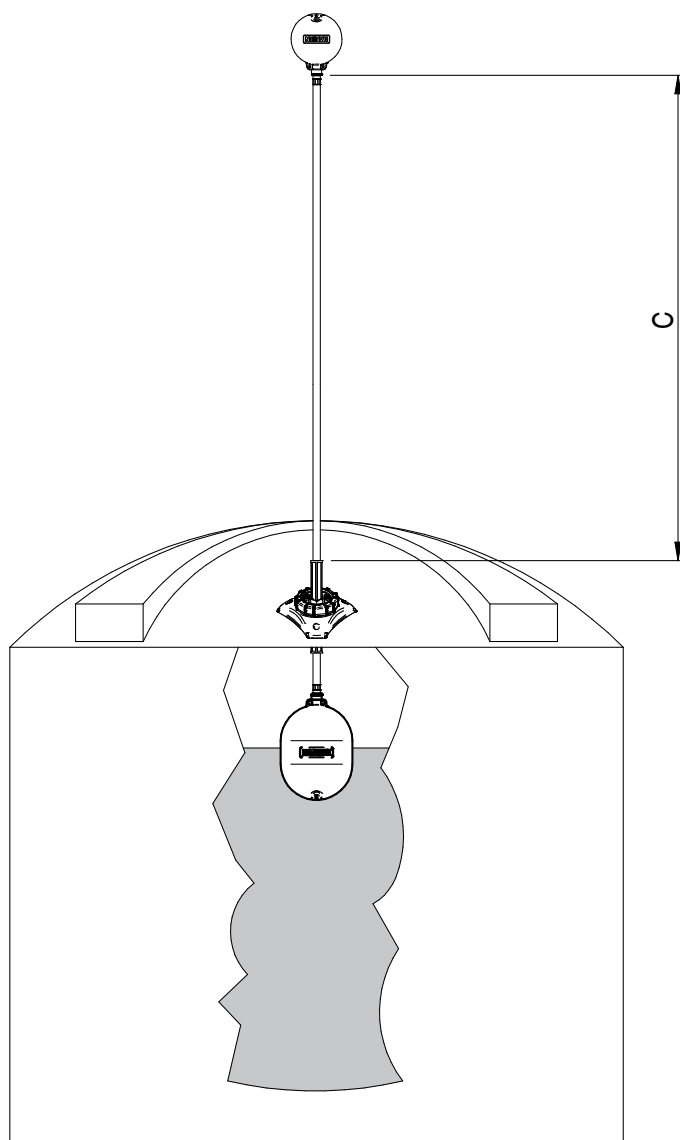
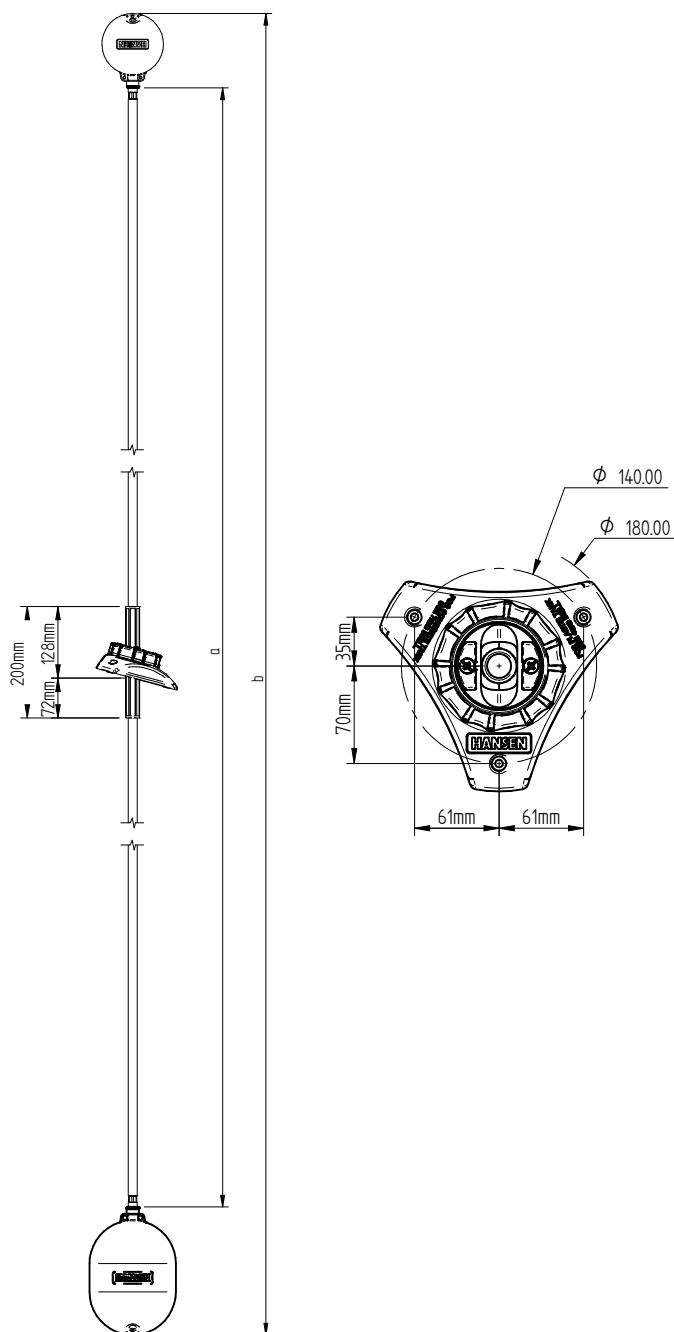
8b.

8a.



9.

Level Alert Dimensions



No. Of Tubes	Tube Length (a) mm	Overall Length Including Floats (b) mm
1	669	1034
2	1338	1703
3	2000	2365

No. Of Tubes	Full Tank Visible Level (c) mm
1	469
2	1138
3	1800

Specifications and sizes may change without prior notice

Level Alert Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Drinking Water	X		
Sea Water	X		
Bloat Remedies Diluted		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong			X
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents			X
Hydrocarbons			X
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide			X
Ozone			X
Phenols			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Calcium Chloride			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Level Alert Frequently asked Questions

Q My existing tank level indicator will stick in a position after windy days and I've had to replace it a number of times. Will the Hansen *Level Alert* reduce this problem?

A Yes, we have covered this issue in two ways, firstly by incorporating a HiViz UV stabilised low wind resistant float and secondly our Glass Fibre Reinforced Nylon Guide Tube and larger diameter Stainless Steel tube (16mm diameter) reduces the chances of it bending reducing this problem.

Q My tank has a very steep roof angle and I cannot find a level indicator that will attach vertically, will the Hansen *Level Alert* fit my tank?

A Yes, our fully adjustable UniTri mounting base will adapt to most tank roof angles, the adjustment is a full 35 degrees each way, so once installed you never need to readjust.

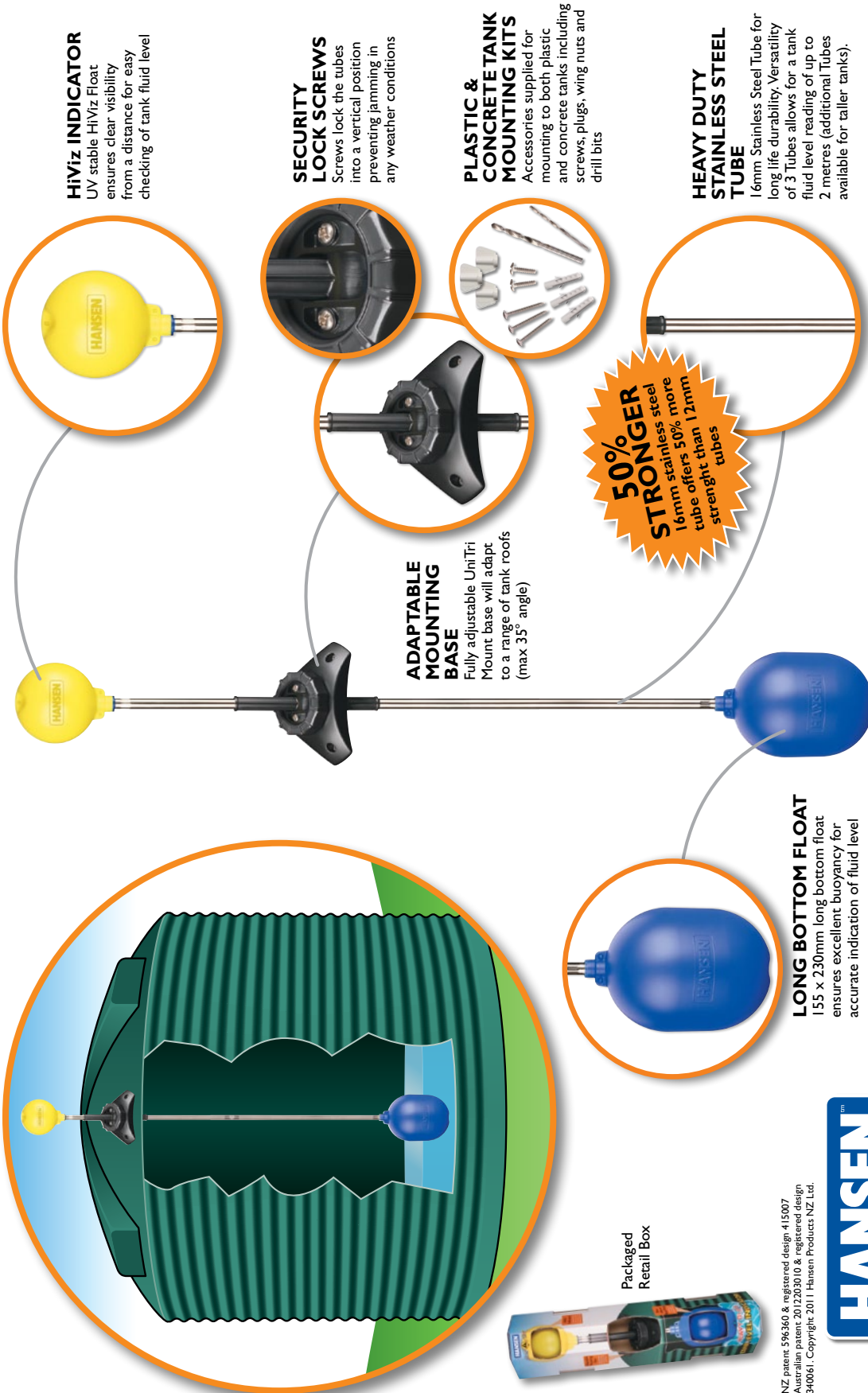
Q I have a number of steel, plastic and concrete tanks on my property, will the Hansen *Level Alert* mount on all three types?

A Yes, the Hansen *Level Alert* comes with stainless steel fasteners for installation on steel, plastic and concrete tanks.

Q I have a number of ropes and pulleys, shafts and mounts lying around that have cost me money over the years, why would I purchase another product when I'm resigned to spending time climbing a ladder?

A Great question, because Hansen understands the value of your time and with the Hansen *Level Alert* there are no ropes and pulleys, tubes or smoke and mirrors, only the time tested strength of Glass Fibre Reinforced Nylon and the proven ability of Hansen's innovative simple effective design. If you already use any of our product range you can answer the question yourself, if it can't be done we don't do it, if it can be done we do it simply but effectively.

Level Alert Features



NZ patent 596360 & registered design 415007
Australian patent 2012203010 & registered design 340061. Copyright 2011 Hansen Products NZ Ltd.

HANSENTM

Level Alert

Heavy Duty Tank Level Indicator

www.hansenproducts.co.nz

HDB157 1412



Features and Benefits

Check Valves

- High Performance, Cost Effective Check Valve with a Strong Compact Design that delivers high volumes of water quickly with unrestricted full flow
- Unique design gives you exceptional flow rates thus can move more water in less time and save on pumping costs
- Screw Cap allows for easy access for in-line servicing
- No Poppet Valve to wear or jam
- Diaphragm and spring are interchangeable with the same size Hansen Foot Valve
- Fast response when opening and closing
- Smooth operating valve for high efficiency with the valve opening at only 1psi
- All connecting threads are BSPT and NPT
- New Zealand Made
- Manufactured from strong, non-corrosive UV stabilised materials for a long life which are approved for use with Potable (drinkable) Water

Foot Valves

- High Performance, Cost Effective Foot Valve, Delivers high volumes of water quickly with unrestricted full flow
- Efficiency in excess of 95% compared to many other types of valves
- Operates via Pressure Differential and at any angle or position
- No Poppet Valve to wear or jam
- Easy access screw cap for servicing, Diaphragm and Spring are interchangeable with the same size Check Valve
- Blockages reduced due to low fluid velocity through slots
- All connecting threads are BSPT and NPT
- Smooth operating valve for high efficiency
- Unique design which incorporates a self cleaning diaphragm
- Manufactured from strong, non-corrosive UV stabilised materials
- Materials approved for use with Potable (drinkable) Water



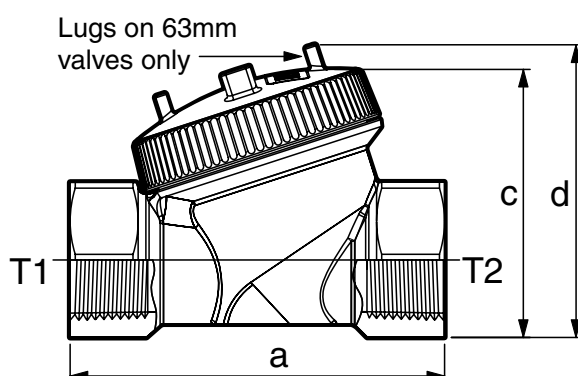
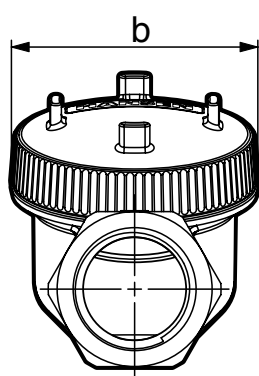
Approvals

AS/NZS 4020 – Hansen Check and Foot Valves have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

See our website for further details.

Check Valve Dimensions

Product Code	T1 BSPT	T2 BSPT	a mm	b mm	c mm	d mm
CV25	1" (25mm)	1" (25mm)	102	69	72	NA
CV32	1 1/4" (32mm)	1 1/4" (32mm)	122	87	92	NA
CV40	1 1/2" (40mm)	1 1/2" (40mm)	132	99	104	NA
CV50	2" (50mm)	2" (50mm)	164	123	132	NA
CV63	2 1/2" (63mm)	2 1/2" (63mm)	198	152	NA	178



Check Valve Parts and Materials

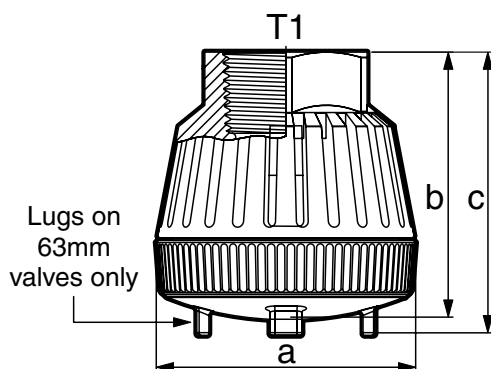
- Strong Non-Corrosive Materials
- **Body** - High Quality Glass Fibre Reinforced Nylon
- **Diaphragm** - Nitrile Rubber
- **Spring** - Stainless Steel.

All components of this valve are manufactured from materials approved for use with potable (drinkable) water.

The Check Valves in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia and other countries, including NZ patents 286543/299570 and 331955 and registered design 29440, Australian patent 708382 and registered design 138753. HANSEN is a trade mark of the Hansen group of companies.

Foot Valve Dimensions

Product Code	T1 BSPT	a mm	b mm	c mm
FV25	1" (25mm)	69	72	NA
FV32	1 1/4" (32mm)	87	88	NA
FV40	1 1/2" (40mm)	99	99	NA
FV50	2" (50mm)	123	120	NA
FV63	2 1/2" (63mm)	152	NA	156



Foot Valve Parts and Materials

- Strong Non-Corrosive Materials
- **Body** - High Quality Glass Fibre Reinforced Nylon
- **Diaphragm** - Nitrile Rubber
- **Spring** - Stainless Steel

All components of this valve are manufactured from materials approved for use with potable (drinkable) water

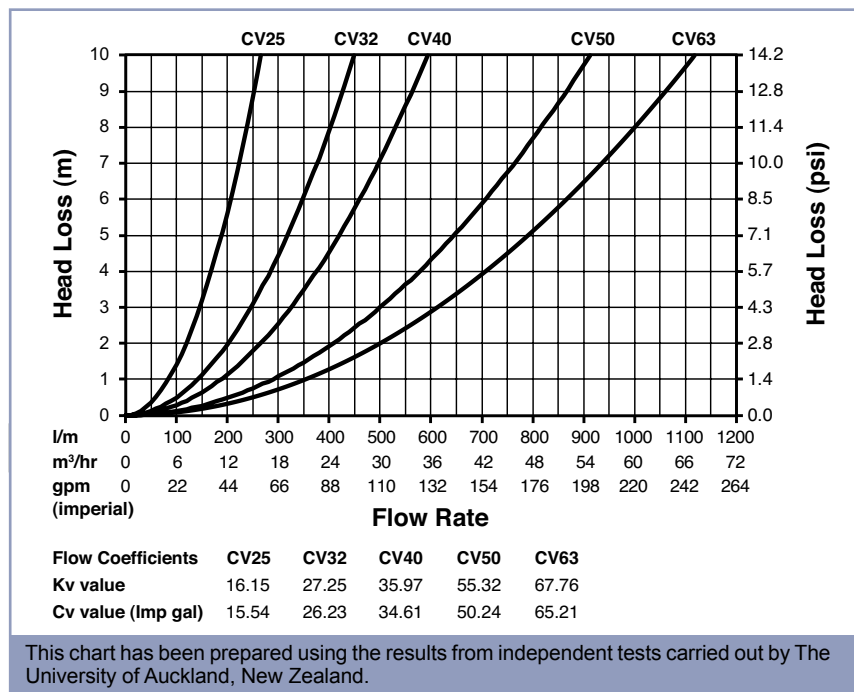
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Check and Foot Valve Chemical Resistance

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong		X	
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel	X		
Automotive Lubricants	X		
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents		X	
Hydrocarbons	X		
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide		X	
Phenols			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Choosing the Correct Check Valve



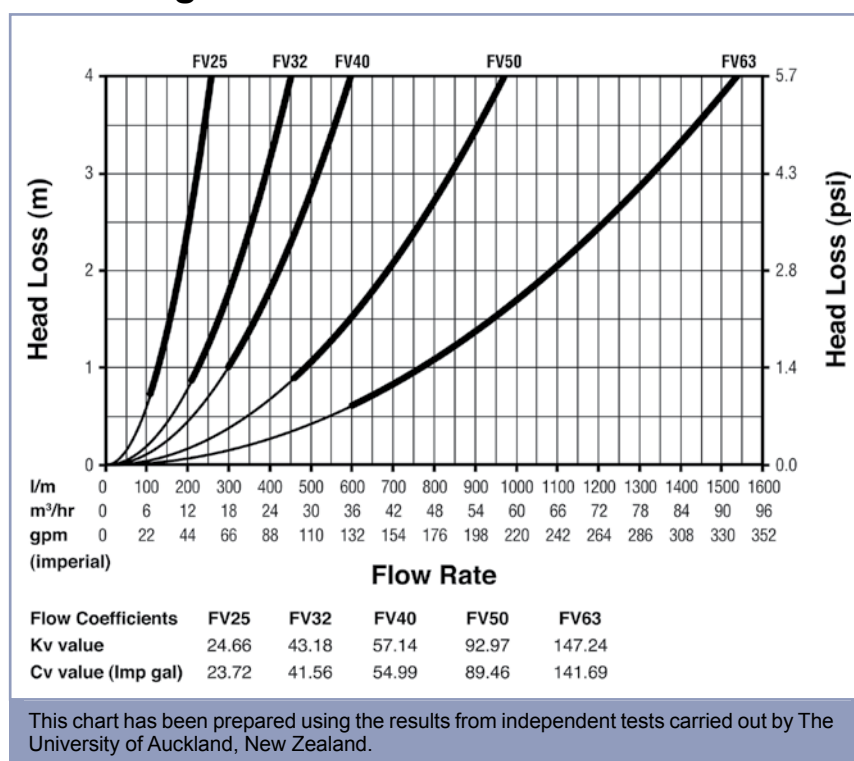
Use the following instructions and the flow chart to determine the correct Check Valve for your requirements.

Because of the unrestricted Full Flow design of the Hansen Check Valve you will often find you will be able to choose a smaller Hansen Check Valve than most other check valves on the market. As the Flow Chart is based on head loss across a fully opened diaphragm firstly go to the table on page 5 headed "Flow Required to Fully Open Diaphragm" and check which valves sizes will not be fully open with your system flow.

To Read the Check Valve Flow Chart, find your system flow across the bottom of the chart on this page and take a line vertically up the chart to size a valve with an acceptable head loss for your system.

Example: with a flow of 300lpm a CV50 will have a head loss of 1.1m and a CV32 will have a head loss of 4.4m. 300lpm will not fully open a CV63.

Choosing the Correct Foot Valve



Use the following flow chart and technical specifications to determine the correct Foot Valve for your requirements

Firstly find your system flow across the bottom of the chart and then take a line vertically up the chart to the size valve with an acceptable head loss for your system. For dirty water applications choose the smallest valve that will be operating in the area shown by the thicker line with an acceptable head loss.

Example: If your pumping capacity is 400lpm a FV40 head loss will be 2.8m and a FV32 head loss will be 3.3m

Check Valve Technical Specifications

Maximum Recommended Working Pressure @ 20°C					
Valve	CV25	CV32	CV40	CV50	CV63
psi	145	145	145	145	145
Bar	10	10	10	10	10
kPa	1000	1000	1000	1000	1000

Pressure Required for Initial Flow					
Valve	CV25	CV32	CV40	CV50	CV63
psi	0.5	0.5	0.5	0.5	0.5
kPa	3.5	3.5	3.5	3.5	3.5

Flow Required to Fully Open Diaphragm					
Valve	CV25	CV32	CV40	CV50	CV63
l/min	110	142	158	225	330

Connections Female BSPT					
Valve	CV25	CV32	CV40	CV50	CV63
Thread Size	1"	1 1/4"	1 1/2"	2"	2 1/2"

Dimensions (mm)					
Valve	CV25	CV32	CV40	CV50	CV63
Width	69	87	99	123	152
Length	102	122	132	164	198
Height	72	92	104	132	178

Installation: Valve will operate at any angle

Head Loss: See chart above

Maximum Operating Temperature: 60°C

Foot Valve Technical Specifications

Maximum Head Pressure @ 20°C					
Valve	FV25	FV32	FV40	FV50	FV63
psi	235	235	235	235	235
Bar	16	16	16	16	16
kPa	1600	1600	1600	1600	1600

Vacuum Required for Initial Flow					
Valve	FV25	FV32	FV40	FV50	FV63
psi	-0.5	-0.5	-0.5	-0.5	-0.5
kPa	-3.5	-3.5	-3.5	-3.5	-3.5

Vacuum Required to Fully Open Diaphragm					
Valve	FV25	FV32	FV40	FV50	FV63
psi	-1.5	-1.5	-1.5	-1.5	-1.5
kPa	-10.0	-10.0	-10.0	-10.0	-10.0

Minimum Flow for Self Cleaning Action					
Valve	FV25	FV32	FV40	FV50	FV63
l/min	110	210	300	460	600

Connection Female BSPT					
Valve	FV25	FV32	FV40	FV50	FV63
Thread size	1"	1 1/4"	1 1/2"	2"	2 1/2"

Dimensions (mm)					
Valve	CV25	CV32	CV40	CV50	CV63
Diameter	69	87	99	123	152
Length	72	88	99	120	156

The information given on this sheet is for guidance only. HANSEN PRODUCTS (NZ) LIMITED accepts no responsibility for the misuse or misapplication of this information

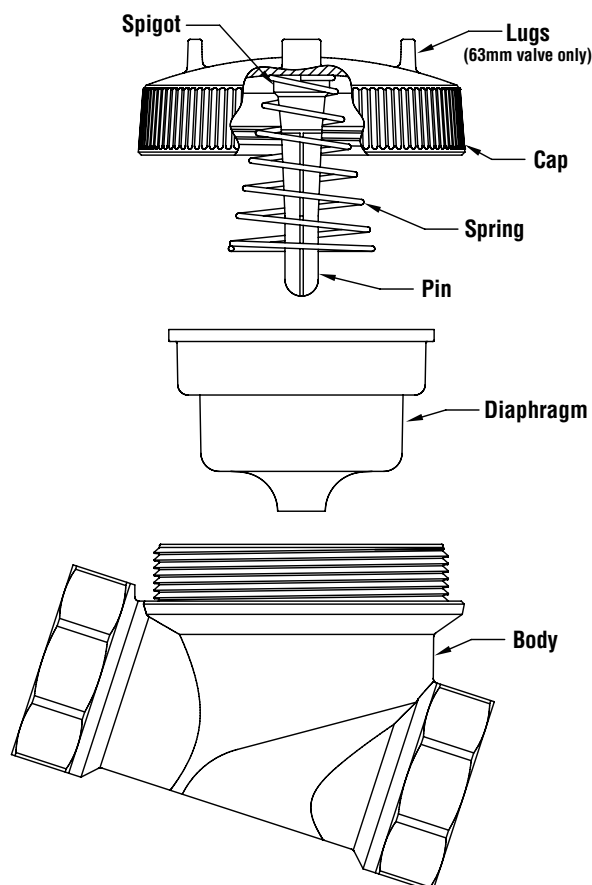
Check Valve Re-assembly Instructions

These Instructions are for those situations where you need to clean out the valve in the event that grit or debris has reduced its working efficiency.

Note: Before re-assembling make sure that all components are fully cleaned.

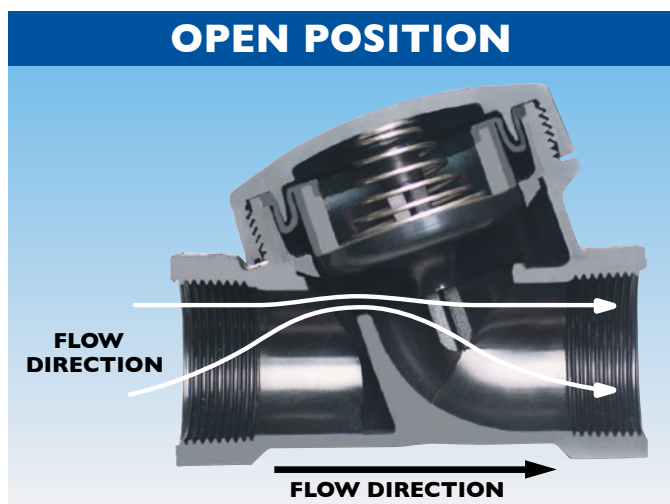
- Seat the diaphragm into the valve body.
- If spring is removed, place it over the pin and turn anti clockwise whilst pushing firmly to retain it on the spigot.
- Place the cap onto the valve body.
- Screw the cap fully onto the valve body and tighten down, hand tight only. For the 63mm valve, use the lugs to tighten the cap a further 1/4 to 1/3 turn until it stops.

The information given on this sheet is for guidance only. HANSEN PRODUCTS (NZ) LIMITED accepts no responsibility for the misuse or misapplication of this information.

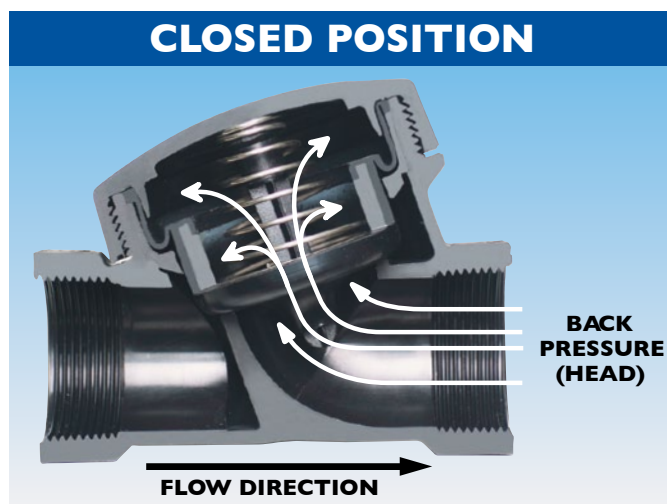


Dynamic Valve Operation

When fluid is required in the direction of flow, the diaphragm opens allowing exceptional flow. As the flow through the valve stops, the diaphragm closes preventing any return flow. The greater the back or head pressure, the better the diaphragm seals against the valve seat.



Cross section shows valve in fully opened position



Cross section shows valve in fully closed position

Foot Valve Steps to Quick and Easy Installation

- Use a thread sealing paste on female thread. We recommend Loctite 5331.
- Use graphs on Choosing the Correct Foot Valve Page to select the correct valve size.
- Keep your Foot Valve off the bottom of your water source to eliminate the valve sucking up rubbish/dirt.
- If you are using chemicals or have any special requirements that you wish to use your valve in, go to the Valve Chemical resistance Page or don't hesitate to contact us.

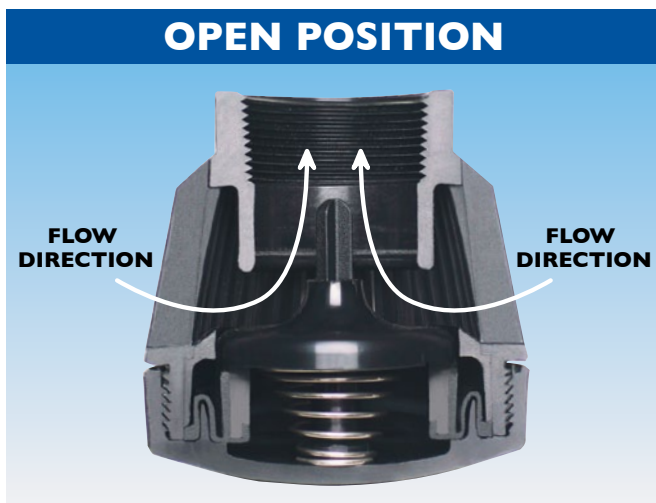
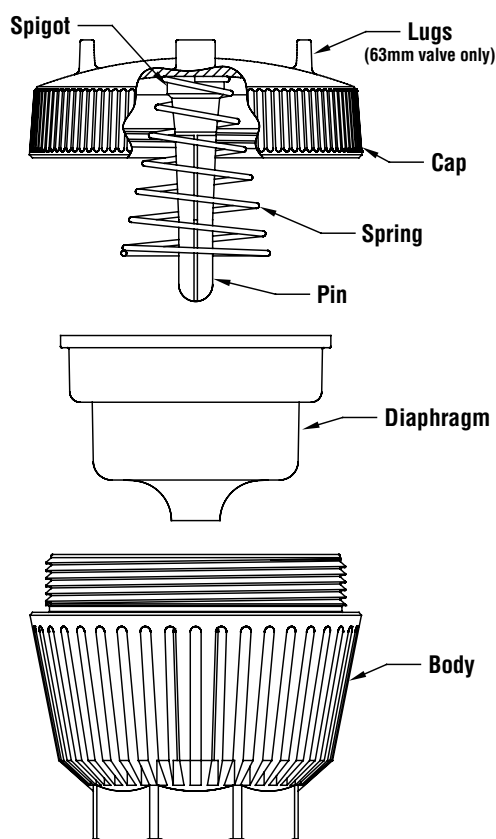
Foot Valve Re-assembly

These Instructions are for those situations where you need to clean out the valve in the event that grit or debris has reduced its working efficiency.

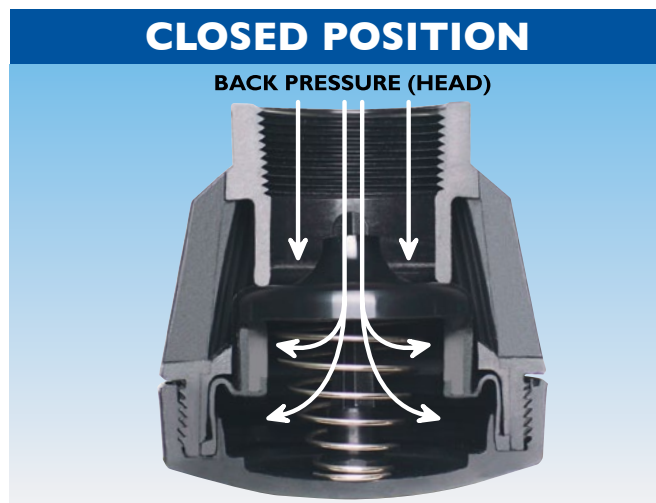
Note: Before re-assembling make sure that all components are fully cleaned.

- Turn Foot Valve body upside down (as per picture).
- Seat the diaphragm into the valve body.
- If spring is removed, place it over the pin and turn anti clockwise whilst pushing firmly to retain it on the spigot.
- Place the cap onto the valve body.
- Screw the cap fully onto the valve body and tighten down, hand tight only. For the 63mm valve, use the lugs to tighten the cap a further 1/4 to 1/3 turn until it stops.

The information given on this sheet is for guidance only. HANSEN PRODUCTS (NZ) LIMITED accepts no responsibility for the misuse or misapplication of this information.



Cross section shows valve in fully opened position



closed position

Foot and Check Valve Frequently Asked Questions

Q Why won't my Valve seal?

- A 1. There may be something sitting between the diaphragm and diaphragm seating area. Pull the valve apart and clean out (replace diaphragm if damaged) as per assembly instructions.
2. Check to ensure you are using the correct size valve for your situation (See Choosing the Correct Foot or Check Valve Page.)

Q What temperature can I use Hansen Foot or Check Valve at?

- A Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

Q Do I have to remove my valve from the line to service?

- A No. Your valve can be left in line for servicing. Refer to the Re-assembly Page for further instructions.

Q I have noticed the Hansen Check Valve has a screw top, does this mean it can be serviced inline?

- A Yes the Hansen Check Valve can be serviced inline and any parts replaced if required.

Q I have an existing water line with a 40mm valve on it and I want to replace the valve with a Hansen valve. Do I use the same size valve as my existing one?

- A You will need to refer to the Choosing the Correct Foot or Check Valve Page and use these charts to determine the valve size required. In some situations you may be able to use a smaller Hansen valve than your existing non Hansen valve.

Q Can the Hansen Foot Valves be used with salt water passing through them?

- A The spring in the valves is made of 302 grade stainless steel, and may eventually corrode in the salt water. The spring is available as a replacement part if required. All other parts of the valve are fully resistant to salt water.

Q The dam I'm pumping from can get quite dirty at times, including slime and weed, I find my existing foot valve requires constant cleaning. Will the Hansen Foot Valve solve this problem?

- A Yes the Hansen Foot Valve has been designed with the ability to work in dirty water situations and because of lower head losses of this valve you can select a smaller size than you normally would expect, thus with the higher velocities across the diaphragm the valve becomes self cleaning.

Q Can I use my Hansen Foot Valve with my swimming pool/spa pool set up?

- A No, as the high concentration of chlorine used in the water for pools, will attack the material. The fitting material is only suitable for use with domestic water. Hansen products that are used in this application will not be covered by warranty.

Q When choosing my Foot Valve do I select a valve size to match the suction pipe diameter?

- A No not necessarily, again because of the higher efficiencies of the Hansen Foot Valve you match your flow with the head loss your pump can afford, generally you will find the Hansen Foot Valve size will be less than the pipe diameter.

Q The river I pump from is fairly shallow so I do pump some sand at times and find my existing Foot Valves have to be replaced often. Is the Hansen Foot Valve also a throw away valve?

- A No, although pumping sand is inadvisable because of the damage to your pump. You will find with the screw cap service access to the Hansen Foot Valve you only need to replace the parts that wear in these circumstances. Another suggestion would be because the Hansen Foot Valve can be installed at any angle you may be able to install the Hansen Foot Valve vertically above your suction pipe and keep it above any sand.

Q I find my check valves too often not sealing, I've been told I should have a filter upstream of the valve, is this the same with the Hansen Check Valve?

- A All check valves should be screened upstream. The advantage of the Hansen Check Valve is that they can be serviced in line if your water is dirty.

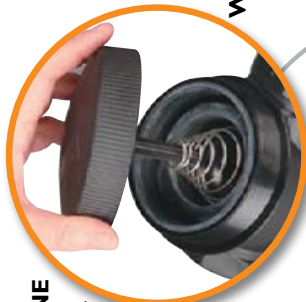
Q How do I know what size valve to use?

- A Work out the flow rate of your pump (your pump supplier / installer can help you here) then refer to Choosing the Correct Foot Valve Page.

Check Valve Features

EASY IN-LINE SERVICING

Easy access screw cap provides in-line servicing for all moving parts.



INTERCHANGABLE PARTS

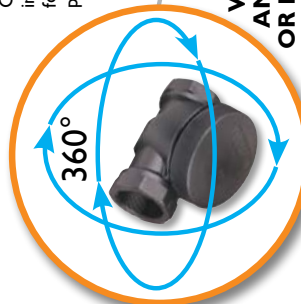
Diaphragm and spring are interchangeable with the same size Hansen Foot Valve



NO POPPET VALVE TO WEAR OR JAM

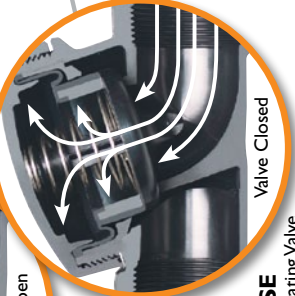
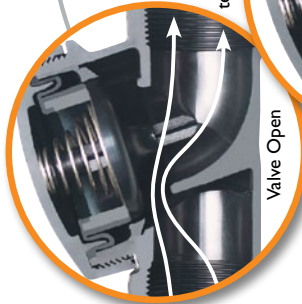
WORKS AT ANY ANGLE OR POSITION

up side down, on its side or straight up and down.



EXCEPTIONAL FLOW

Exceptional flow rate means shorter pumping times, reducing pumping costs & relieving long term system maintenance



FAST RESPONSE

Smooth Operating Valve for High Efficiency

Available in Sizes 25mm, 32mm, 40mm, 50mm, 63mm BSPT (1", 1 1/4", 1 1/2", 2", 2 1/2" BSPT)

HIGH QUALITY MATERIALS

Manufactured from strong, non-corrosive UV stabilised materials for a long life.

- Body - High Quality Glass Fibre Reinforced Nylon
- Diaphragms - Durable Long Life Nitrile Rubber
- Spring - High Grade Stainless Steel

FAST AND EASY TO INSTALL

A few simple steps and you're up and running with your new Hansen Check Valve!

- When connecting to pump, fittings, or pipe, ensure you use thread sealant or thread tape on all threaded connections. We recommend Loctite 5331



- Determine the flow direction of your system, then install the Check Valve so that the arrows on the valve face the SAME DIRECTION the system will be flowing.

- Visit our website to help determine which sized Check Valve to use:

<http://www.hansenproducts.com/products/valve/CV-flow.htm>

POTABLE WATER APPROVED

Materials approved for use with Potable (drinkable) Water

AS/NZS 4020



HANSEN

Best Installed Value

High Performance, Cost Effective Check Valve

HANSEN

Check Valves

www.hansenproducts.co.nz

Foot Valve Features

WORKS AT ANY ANGLE OR POSITION

up side down, on its side or straight up and down.



HIGH QUALITY MATERIALS

Manufactured from strong, non-corrosive UV stabilised materials for a long life.

- Body - High Quality Glass Fibre
- Reinforced Nylon
- Diaphragms - Durable Long Life Nitrile Rubber
- Spring - High Grade Stainless Steel

INTERCHANGABLE PARTS

Diaphragm and spring are interchangeable with the same size Hansen Check Valve



POTABLE WATER APPROVED

Materials approved for use with Potable (drinkable) Water

AS/NZS 4020

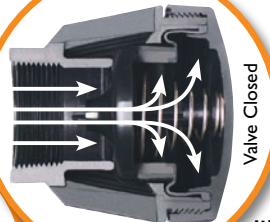


SELF CLEANING

The unique design provides self cleaning as part of the valve operation



Valve Open



Valve Closed

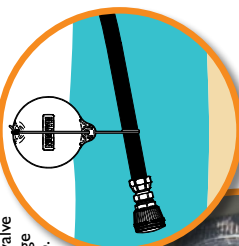
FAST RESPONSE

Smooth Operating Valve for High Efficiency

FAST AND EASY TO INSTALL

A few simple steps and you're up and running with your new Hansen Foot Valve!

3. Once installed, ensure the Foot Valve is raised off the surface of the water bed to help prevent debris entering the valve causing damage to your pump.



*We recommend Loctite 5331.



EASY IN-LINE SERVICING

Easy access Screw Cap provides in-line servicing for all moving parts.



FOOT VALVE SOCK

An accessory that helps filter and stop particles entering the Valve. It also discourages the build up of some menacing forms of marine life.



2. Your Hansen Foot Valve comes ready to install. Connect it directly to end of a threaded pipe, or use a Hansen Male Straight or Reducing Straight Coupling to connect to your pipe. Use thread sealant or thread tape on all threaded connections.*

1. Visit our website to help determine which sized Foot Valve to use:

<http://www.hansenproducts.com/products/valve/FV-flow.htm>



Available in Sizes 25mm, 32mm, 40mm, 50mm, 63mm BSPT (1", 1 1/4", 1 1/2", 2", 2 1/2" BSPT)

HANSEN[™]

Foot Valves

High Performance, Cost Effective Foot Valve

www.hansenproducts.co.nz

Full Flow Ball Valves

Technical Information

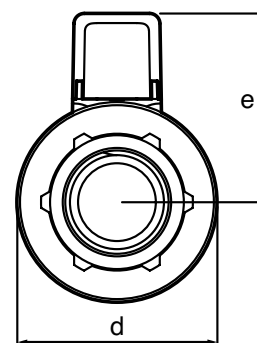
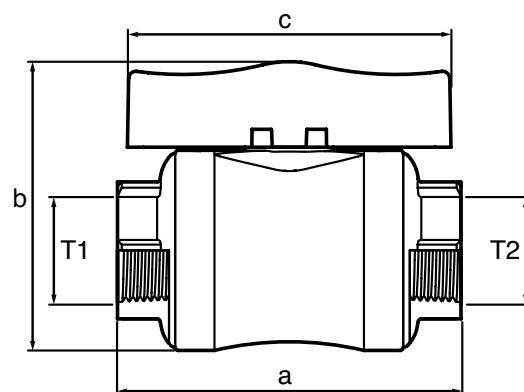
Ball Valve Features and Benefits

- Versatile Full Flow Ball Valve, Lightweight and Strong
- Frost Friendly - an undocumented feature of being able to stand up in cold climates well beyond any competitor valve we have ever seen
- Won't rust or corrode in general or salt water applications
- Individually Hand Tested using both Air and Water before it leaves the Hansen Factory
- Manufactured from non Corrosive, UV Stabilised Materials
- Potable Water Approved (AS/NZS 4020 drinking water test standard)
- New Zealand Made
- Available in BSP, NPT & ACME thread configurations
- Removable Handles for security and varying applications
- Positive "click" smooth open/close action
- High Pressure Rating: 16 Bar/235 PSI @ 20°C
- International colour coded handles; blue for general applications, lilac for grey water applications
- Lifetime Warranty
- Will function across a wide range of operating pressures and temperatures

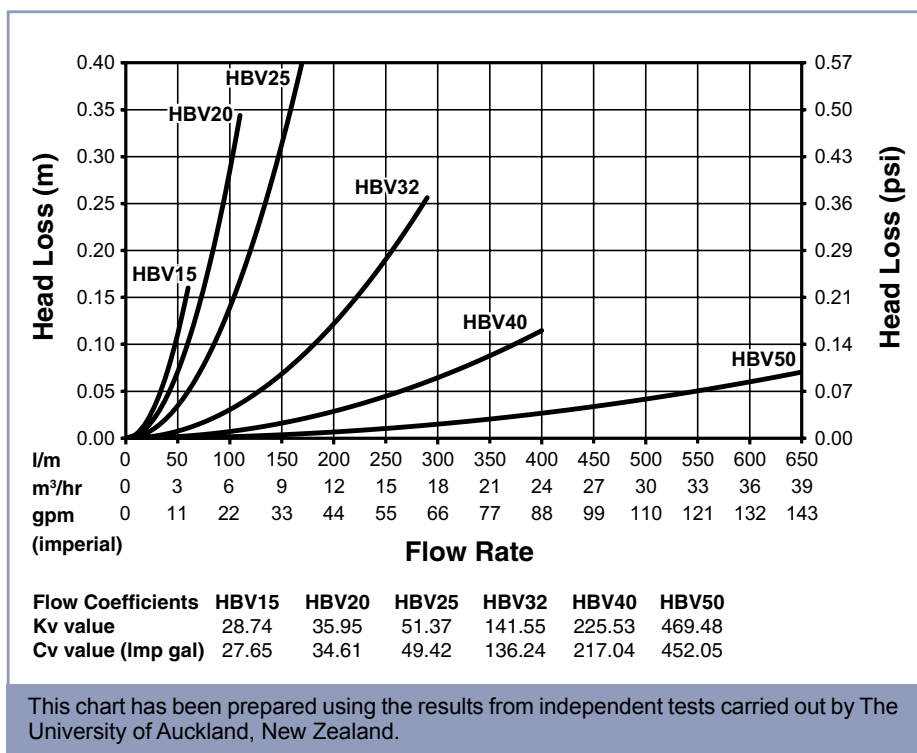
Ball Valve Dimensions

Product Code	T1 BSPT/NPT (DN*)	T2 BSPT/NPT (DN*)	a mm	b mm	c mm	d mm	e mm
HBV15	15mm (1/2")	15mm (1/2")	98	82	93	56	54
HBV20	20mm (3/4")	20mm (3/4")	98	82	93	56	54
HBV25	25mm (1")	25mm (1")	111	93	104	65	61
HBV32	32mm (1 1/4")	32mm (1 1/4")	122	107	112	76	69
HBV40	40mm (1 1/2")	40mm (1 1/2")	135	124	123	90	79
HBV50	50mm (2")	50mm (2")	146	140	131	106	89

*DN = Normal Bore Size



Ball Valve Flow Chart



Full Flow Ball Valve Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Drinking Water	X		
Sea Water	X		
Bloat Remedies Diluted		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong			X
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents			X
Hydrocarbons			X
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide			X
Ozone			X
Phenols			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Calcium Chloride			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Ball Valve Parts & Materials

- **Body & End Caps** - Glass Fibre Reinforced Nylon
- **Handle** - Glass Fibre Reinforced Nylon
- **Ball** - Polypropylene
- **Ball Seats & Stem** - Acetal (POM)
- **O-Rings** - Nitrile Rubber

Full Flow Ball Valves Installation Steps

- All pipe work must be adequately supported.
- Use a thread sealant on all threaded connections. We recommend Loctite 5331.
- If you are using chemicals or have any special requirements that you wish to use your Ball Valves for, please don't hesitate to contact us or refer to Chemical Resistance chart on previous page



1 (a) Use a teflon tape sealant or



1 (b) thread paste sealant. The right sealant for threaded joints is non-hardening, compatible with plastic and doesn't add slipperiness to encourage over-torquing.



2. Screw pipe or fitting into Ball Valve.



3. Do not over tighten. The recommended way to assemble a Ball Valve is finger tight. Tighten until firm with spanner or pipe grip. One to two turns should be all that is required.

Full Flow Ball Valve Handle Removal Steps



1 Turn handle clockwise slightly.



2 Put fingers under handle and pull whilst pushing with thumbs on body of valve.

Full Flow Ball Valve - Determining if your Valve Open or Closed



Valve is identified as OPEN when centre notch is not parallel with the valve body.



Valve is identified as CLOSED when centre notch is parallel with the valve body.

Ball Valve Maximum Working Pressures

Fitting Size	MAX PRESSURE @ 20 Degrees Celsius
15mm - 50mm	16 Bar (1600 kPa. 235 psi)

Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

Ball Valve Approvals

IMCI – Hansen Ball Valves have been approved by the International Marine Certification Institute to ISO standard 9093-2 and meets the requirements of the Recreational Craft Directive 94/25/EC meaning that it is safe to use in salt water environments.

AS/NZS 4020 – HANSEN[™] Ball Valves have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

See our website for further details.

Ball Valve Frequently Asked Questions

Q How tight should I tighten my valves?

A Do not over tighten. The right way to tighten a Ball Valve is hand tight plus one to two turns - no more!

Q Do I need to support my Ball Valve?

A Yes. All pipe work must be adequately supported.

Q What type of sealant should I use?

A Use a thread sealant on all threaded connections. We recommend Loctite 5331.

Q Can I use my Hansen Ball Valve with my swimming pool/spa pool set up?

A No, as the high concentration of chlorine used in the water for pools, will attack the material. The fitting material is only suitable for use with domestic water. Hansen products that are used in this application will not be covered by warranty.

Q Can I use these Ball Valves with metal fittings?

A Yes.

Q Are Hansen Ball Valves Frost Friendly?

A Hansen Ball Valves are Frost Friendly and have been tested in frost conditions. Results may vary in freezing conditions.

Q What temperature can I use Hansen fittings at?

A Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

The Ball Valves in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia and other countries, including NZ registered design 410758, Australian registered design 317355. HANSEN is a trade mark of the Hansen group of companies.

Ball Valve Features



FULL FLOW BORE

Unrestricted Full Flow Ball Valve gets the job done faster. Less system strain, lower maintenance costs. High Pressure 16 Bar Rated.



POSITIVE "CLICK" SMOOTH OPEN/CLOSE ACTION

Smooth action open and close helps reduce surge which can cause damage to your system. Positive 'click' gives the assurance the valve is either on or off.



REMOVABLE HANDLES

Removable Handles for Security and Varying Applications



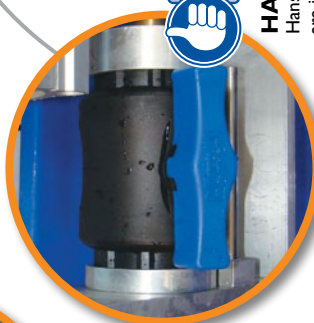
DIFFERENT HANDLES FOR VARYING APPLICATIONS

Available as separate accessories.
• BLUE Handles for general applications
• LILAC Handles for grey water applications
• GREEN Handles for increased visibility and to differentiate



HIGH QUALITY MATERIALS

- Body & End Caps - Glass Fibre Reinforced Nylon
- Handle - Glass Fibre Reinforced Nylon
- Ball - Polypropylene



HAND TESTED

Hansen Full Flow Ball Valves are individually hand tested using both Air and Water



AS/NZS 4020

CORROSION PROOF

Manufactured from Non Corrosive, UV Stabilised Materials. Potable Water Approved and Salt Water Friendly.



Frost Friendly

FROST FRIENDLY

Hansen Ball Valves are Frost Friendly and have been tested in frost conditions. Frost Friendly Results may vary in freezing conditions.

HDB163 1401



HANSEN™

Full Flow Ball Valves

Full Flow Reliable High Performance Ball Valve

www.hansenproducts.co.nz

Fast-Flo Compact Trough / Tank Valve Technical Information

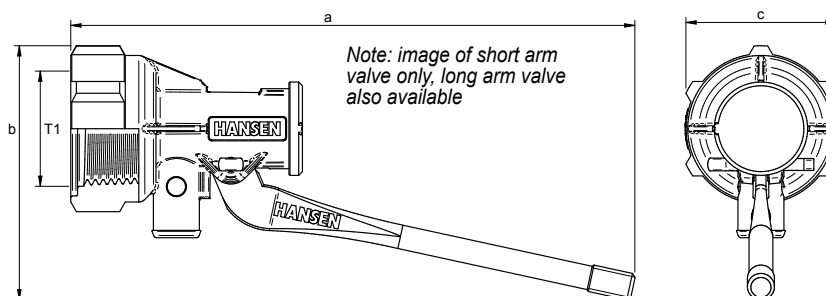
Fast-Flo Features and Benefits

- For automatic filling & maintaining water levels in animal drinking troughs, water storage tanks & water cisterns etc
- Small compact design suited to confined spaces ie small feeder bowls, troughs & header tanks
- High performance, cost effective trough/tank valve - 29 psi, 34 l/min
- The Fast-Flo Short Arm Valve has the highest flow of any valve of its size at 500 kPa (73 psi) it will deliver 56 l/min
- Ability to attach a diffuser hose to reduce water turbulence & noise in top entry installations & Anti-Syphon Holes to prevent back flow.
- Designed with an Ezi Bend brass arm to make water level adjustment a breeze
- Will fit multiple thread & connection combinations 15 - 50mm
- Reliable with high and low pressure applications from 0.2 - 12 bar
- Durable urethane seat, which is reversible
- Suitable for top or side entry
- Manufactured from strong non corrosive UV stabilised materials

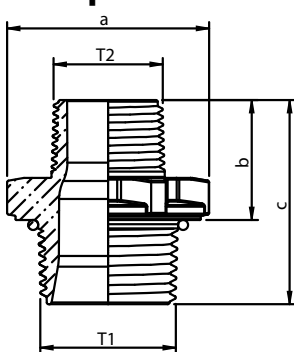
This product is protected by intellectual property rights owned by the Hansen group of companies in NZ and Australia including NZ patent application 626771; NZ design application registered design 418914. © 2014 Hansen Developments Ltd. Patent and design applications pending in other countries.

Fast-Flo Dimensions

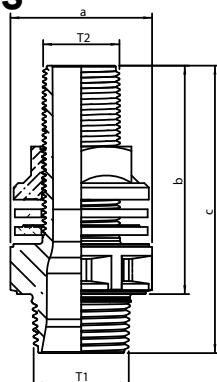
T1 BSPT (DN)	a mm Short Arm	a mm Long Arm	b mm	c mm
1" (25mm)	166	266	75	44



Adaptor Dimensions



STANDARD ADAPTOR

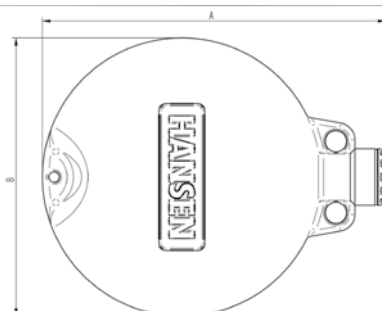


LONG TAIL ADAPTOR

Product	T1 BSPT	T2 BSPT	a mm	b mm	c mm
STANDARD ADAPTORS					
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	34	54
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	35	55
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	48	38	58
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	48	32	52
40mm Adaptor BSPT	1" (25mm)	1 1/2" (40mm)	49	39	59
50mm Adaptor BSPT	1" (25mm)	2" (50mm)	61	44	64
LONG TAIL ADAPTORS					
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	73	93
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	78	98
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	54	78	98
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	64	86	106

Float Dimensions

115mm Threaded Float	
a mm	b mm
133	108
140mm Threaded Float	
164	140



* Applies to both Blue and Hi Viz Floats

Specifications and sizes may change without prior notice

Fast-Flo Parts and Materials

The *Fast-Flo* Trough / Tank Valve is manufactured from Potable Water approved materials

- **Fast-Flo Valve Body** – Acetal
- **Sleeve Valve Plunger** – Acetal
- **Valve Body Cap** – Polypropylene
- **Sleeve Valve Plunger Seal** – Polyurethane Elastomer
- **Arm** – Brass
- **Split Pin** – Stainless Steel
- **Cord Nut** – Glass Fibre Reinforced Nylon
- **Cord** – Polyester

Adaptors – BSPT

- **Adaptor** – Glass Fibre Reinforced Nylon
- **Adaptor O-Ring** – EPDM (Ethylene Propylene)

Float

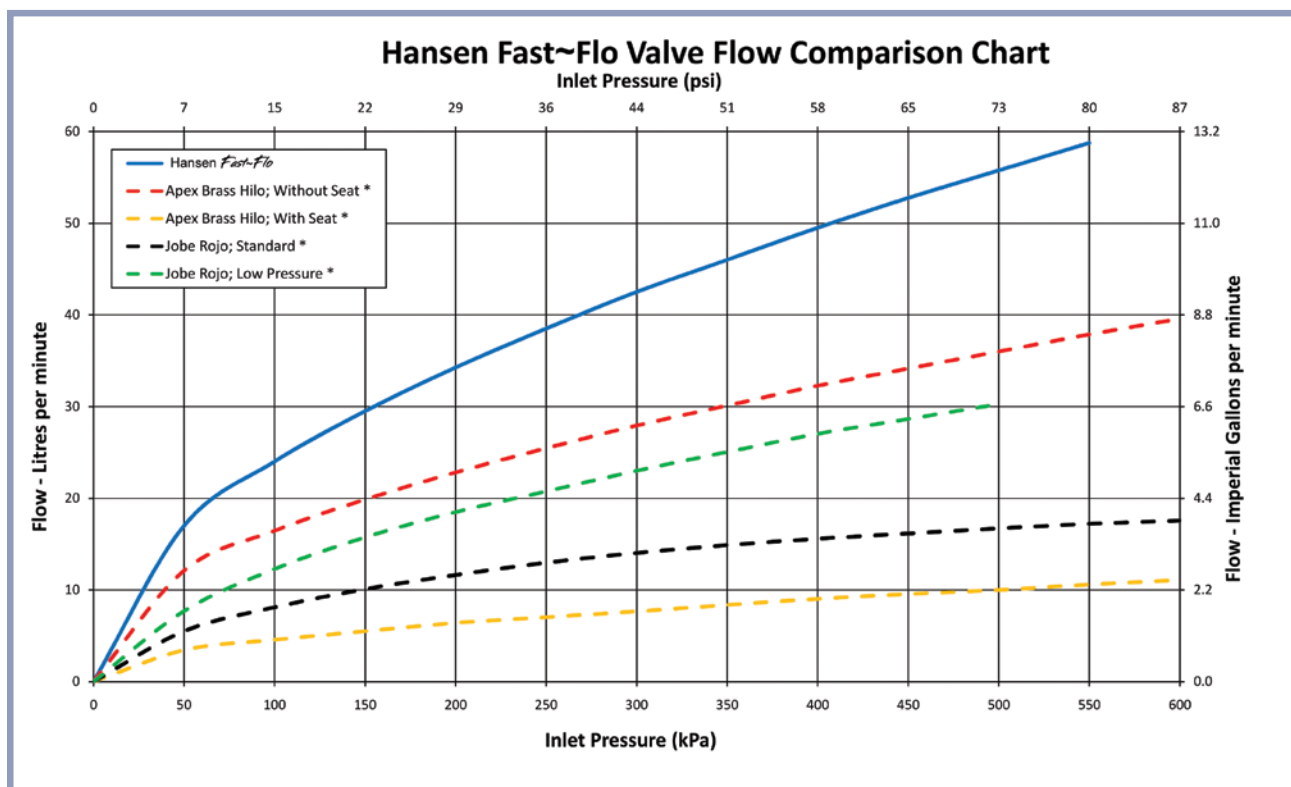
- **Float** – High Density Polyethylene
- **Thread Insert** – Glass Fibre Reinforced Nylon

Fast-Flo Working Pressures

The Hansen *Fast-Flo* Valve will operate from 0.2 to 12 Bar / 2.9 - 174 PSI

Max Pressure @ 20°C = 12 Bar / 174 PSI

Fast-Flo Valve Flow Chart



Hansen results based on In-house testing

*Results based on each valve manufacturers test literature

Fast-Flo Valve Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Drinking Water	X		
Sea Water	X		
Bloat Remedies Diluted		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak		X	
Bases Strong			X
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents			X
Hydrocarbons			X
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents			X
Oxidising Agents			X
Weak Hydrogen Peroxide			X
Ozone			X
Phenols			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Calcium Chloride			X

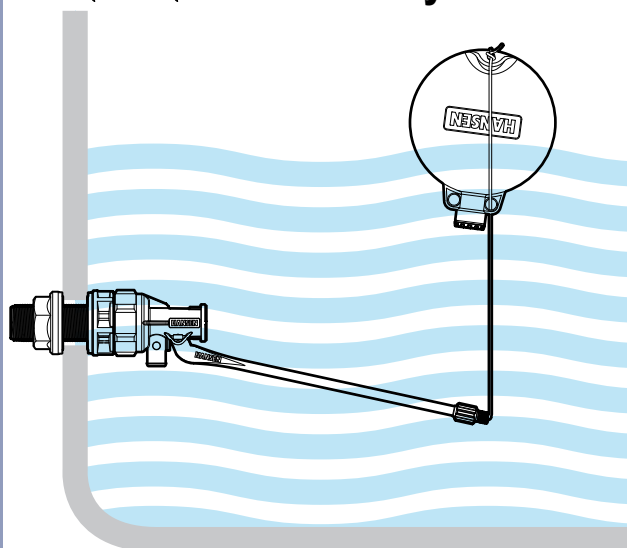
PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Fast-Flo Installation Guide

Trough / Tank Installation:

- Flush pipe lines into water tank or troughs before installing *Fast-Flo* Valve into new system.
- Isolate the water going to the trough or tank to replace valve in an existing system.
- Thread O-Ring end of correct size Long Tail Adaptor into *Fast-Flo* Valve Body and tighten firmly enough that the O-Ring creates a seal against the *Fast-Flo* Valve Body face. Do not over tighten.

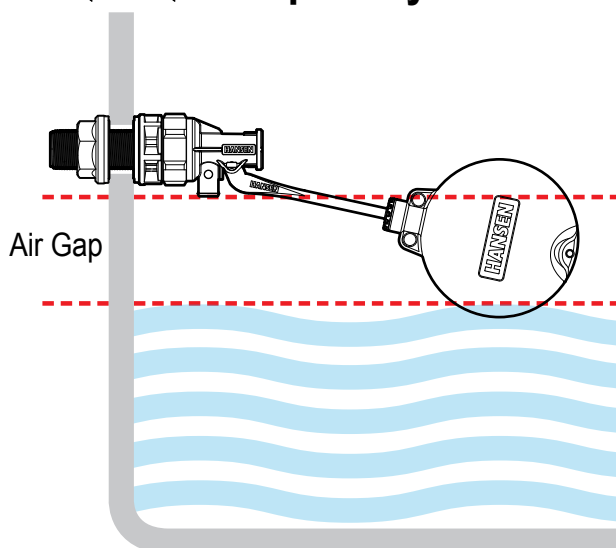
Fast-Flo Side Entry



TO CHANGE WATER LEVEL

Adjust length of cord at top of float. Use the nut and cord on Long Arm Valve only

Fast-Flo Top Entry



NOTE: If there is an existing or moulded threaded inlet in the trough or tank use a Hansen Standard Adaptor.

Side Entry Trough / Tank:

- Place the ribbed side of the Rubber (soft) Washer against the hole inside the trough/tank. Insert the Long Tail Adaptor through the washer & inlet hole in the trough/tank wall.
- On the outside, place the Poly (hard) Washer on the Long Tail Adaptor with the ribs facing the trough/tank wall. Thread on Adaptor Nut and tighten firmly. Do not over tighten.
- Screw the Cord Nut* onto the *Fast-Flo* Brass arm.
- Thread the Cord* through the *Fast-Flo* Float. Tie the Cord off to achieve the correct water level.

* Cord and Nuts only supplied with long arm version..

Top Entry Trough / Tank:

- Place the ribbed side of the Rubber (soft) Washer against the hole inside the trough/ tank. Insert the Long Tail Adaptor through the washer & inlet hole in the trough/tank wall.
- On the outside, place the Poly (hard) Washer on the Long Tail Adaptor with the ribs facing the trough/tank wall. Thread on Adaptor Nut and tighten firmly. Do not over tighten.
- Screw the *Fast-Flo* Float on to the Brass Arm, do not bend Brass Arm

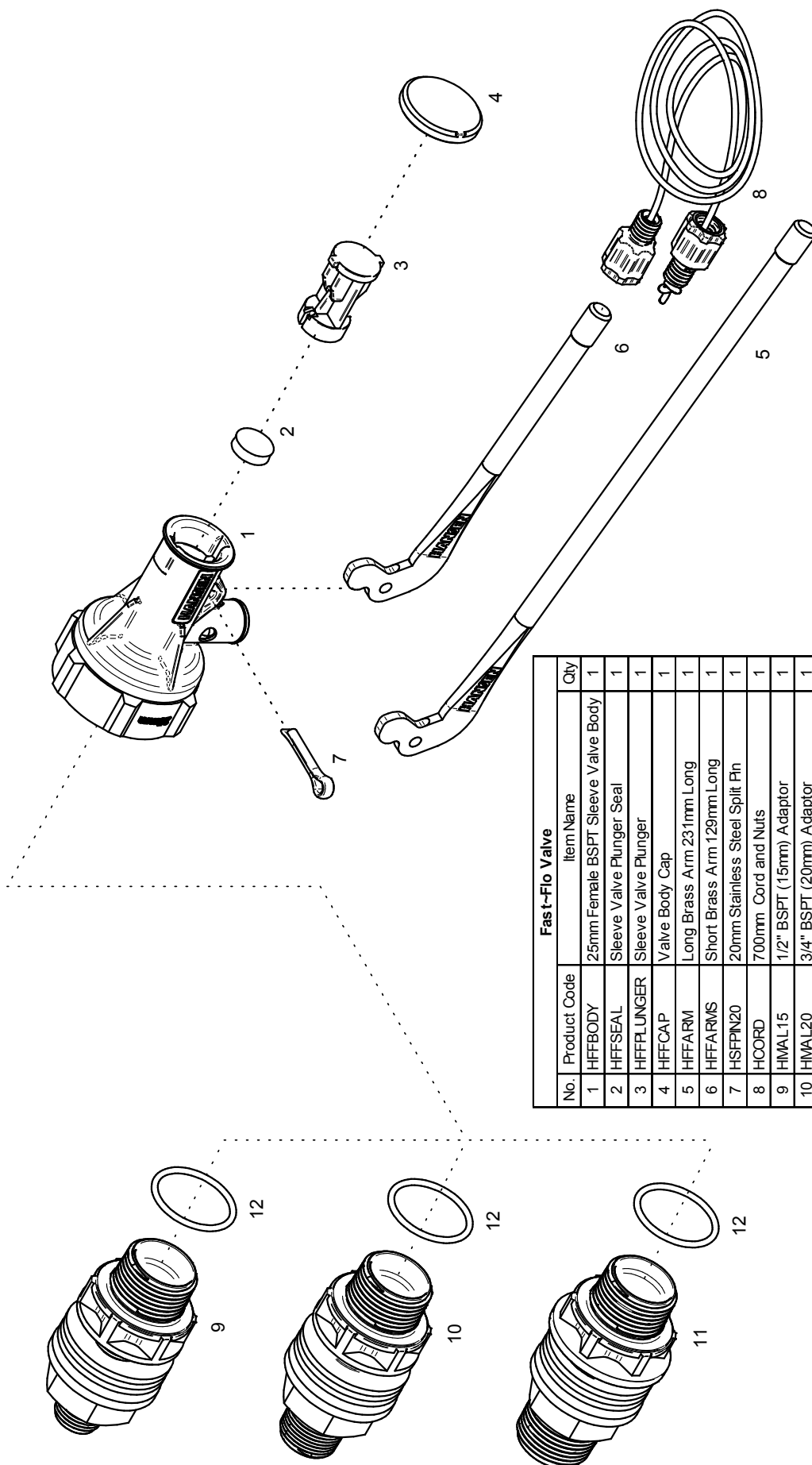
Wall Thickness Guide

Hansen Long Tail Adaptors
Maximum Wall Thickness for
Troughs when screwed into a
Hansen Female Bend

Long Tail Adaptor	Trough Wall
HMAL15	14mm
HMAL20	22mm
HMAL25	19mm
HMAL32	24mm

Fast-Flotm

Sleeve Valve Assembly Instructions



Fast-Flo Valve			
No.	Product Code	Item Name	Qty
1	HFFBODY	25mm Female BSPT Sleeve Valve Body	1
2	HFFSEAL	Sleeve Valve Plunger Seal	1
3	HFFPLUNGER	Sleeve Valve Plunger	1
4	HFFCAP	Valve Body Cap	1
5	HFFARM	Long Brass Arm 231mm Long	1
6	HFFARMS	Short Brass Arm 129mm Long	1
7	HSPIN20	20mm Stainless Steel Split Pin	1
8	HCORD	700mm Cord and Nuts	1
9	HMAL15	1/2" BSPT (15mm) Adaptor	1
10	HMAL20	3/4" BSPT (20mm) Adaptor	1
11	HMAL25	1" BSPT (25mm) Adaptor	1
12	Adaptor O-Ring - supplied with Adaptor		1

Fast-Flo Frequently Asked Questions

Q Will the Hansen *Fast-Flo* valve work in my calf shed bowl troughs?

A Yes the *Fast-Flo* valve was designed as a compact valve for use in small troughs and header tanks or any situation where the valve space is confined.

Q I have a compact float valve in a header tank, the flow is too low into the tank and won't keep up with our requirements. I can't fit a larger valve into this tank, if I replace it with a Hansen *Fast-Flo* valve will the flow be any better?

A Yes the *Fast-Flo* valve has the highest flow of any valve in its class/size. At 500 kPa (73 psi) it will deliver 56 l/min.

Q The pressure at my header tank is quite high and the compact float valves I have used either don't last very long or they don't shut off properly and I find the overflow running. Will the Hansen *Fast-Flo* valve work with high pressure??

A Yes the *Fast-Flo* valve has the arm pivot point positioned to allow closing at pressures up to 12 bar (174 psi) with a 115mm float attached.

Q I have found the rubber seats in the compact float valves I am using don't last very long, does the Hansen *Fast-Flo* valve use the same rubber seat?

A No the seat we use in Hansen float valves are urethane which is a very durable and hard material. The seal is also reversible if a foreign body should damage it.

Q I have a header tank in my house that is very noisy while filling, will the Hansen *Fast-Flo* valve be any quieter?

A The noise while the tank is filling is caused by the high velocity of the water from the valve outlet into the tank. The *Fast-Flo* valve outlet doubles as a spigot so you can attach a length of hose to allow the flow to be placed onto the bottom of the tank eliminating this noise.

Q What size tank inlet do I need to fit the Hansen *Fast-Flo* valve?

A All the Hansen float valves carry a 25mm (1") female thread on the valve inlet. This gives you a couple of benefits. The valve will fit inlets from 15mm to 50mm when using our range of adaptors. The additional material used at the inlet to form the female thread strengthens the valve at an area that has been identified as a weak point in other brands of valves.

MALE ADAPTORS
O-Ring seal short adaptors available in 15-50mm and long adaptors from 15-32mm. Manufactured from High Quality Glass Fibre Reinforced Nylon for a weather, termite, fungi & bacteria resistance.



COMPACT!
Ideal for confined spaces the Hansen Fast-Flo valve is well suited to trough/tank environments that demand a compact sized valve.



FEEDERS
Long Arm = 266mm
Short Arm = 166mm



SMALL BOWLS
Header Tanks
Compact Troughs



TOP ENTRY INSTALLATIONS
Insert the Long Tail Adaptor through the inlet hole in the trough wall, place Poly Washer on Long Tail Adaptor, thread on Adaptor Nut then tighten firmly. Do not over tighten. Screw the Fast-Flo Float on to the Brass Arm, do not bend Brass Arm



REVERSIBLE SEAL
Reversible seal effectively doubles the valves life.



STRONG LONG LIFE SEAL
Versatile, Tuff, Double Sided Urethane Seal.



EZI BEND LEVEL ADJUSTMENT
Hansen Fast-Flo Valves feature a patented Hansen Ezi Bend brass arm making level adjustment a breeze



SUITED TO TOP OR SIDE ENTRY



SIDE ENTRY INSTALLATIONS
Insert the Long Tail Adaptor through the inlet hole in the trough wall, place Poly Washer on Long Tail Adaptor, thread on Adaptor Nut then tighten firmly. Do not over tighten. Screw the Cord Nut* onto the Fast-Flo Brass arm. Thread the Cord* through the Fast-Flo Float. Tie the Cord off to achieve the correct water level.



HAND TESTED
All Hansen Fast-Flo Valves are rigorously hand tested using air.



ANTI-SYPHON HOLES
When the valve body outlet is submerged in water or has an extension outlet tube attached, the Anti-Syphon Holes have been designed to be knocked out to prevent the valve from back flowing as long as the Anti-Syphon Holes are above water level.



HOSE OUTLET BARB
Acts as a diffuser for quiet operation and controlling the outlets flow in confined spaces



FLOW RATE
29 PSI, 34L/PM



MATERIALS APPROVED FOR DRINKING WATER
All plastic parts used in the manufacturing of Fast-Flo valves have been approved for use with potable water.



NOTE: High pressure and or flow can cause water turbulence when used in top entry installations. To minimise use a short piece of pipe to act as a diffuser. To prevent back flow when using a diffuser punch out the Anti-Syphon Holes.



RETAIL PACKAGING
Long Arm Valve
Short Arm Valve



HANSEN
Fast-Flo Valves

A Reliable, Compact Trough/Tank Valve
www.hansenproducts.co.nz

Super-Flo Trough Valve Technical Information

Super-Flo Features and Benefits

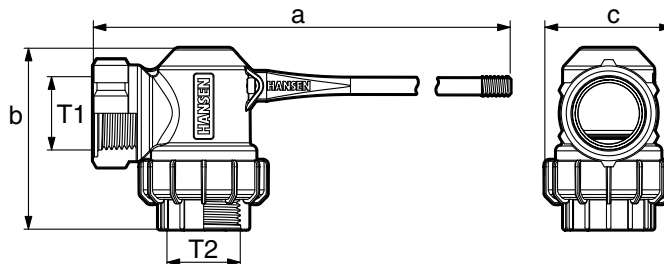
- High Performance and Cost Effective Trough Valve (29 psi, 188 l/min)
- Designed with a 25mm (1") female thread on the valve outlet
- Supplied with 15, 20 & 25mm adaptors to fit a range of inlets
- Ability to attach to any number of poly pipe fittings ie portable troughs, irrigation systems, animal/feeder/ vehicle washdowns, spray tanks
- Each valve will fit multiple thread and connection combinations
- Strong Compact Design
- Delivers high volumes of water quickly with unrestricted full flow
- "Slipper Fit Piston" design to reduce valve sticking
- Low operating pressure required reducing pumping costs and increasing flow
- Mini body design to enable easy installation
- Manufactured from strong, non corrosive UV Stabilised materials
- Available in Female and Male BSPT, NPT, ACME thread configurations
- Suitable for High/Low Pressure operations (from 0.2 Bar to 12 Bar)
- Variable open and close action preventing valve bounce and water hammer
- *Super-Flo* Piston Valve is supplied with: Plastic or Brass Valve Body, Threaded Adaptors, Brass Arm and Cord and Nuts*

*Cord and nuts only supplied with long arm
NB Adaptor configurations vary per pack

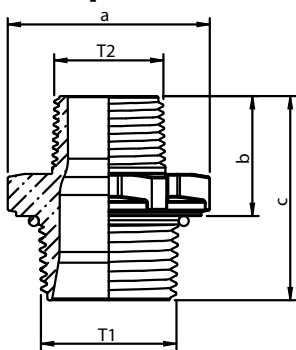
This product is protected by intellectual property rights owned by the Hansen group of companies in NZ and pending in other countries, including NZ patent applications 585472/585246 and NZ registered design 413594.

Super-Flo Dimensions

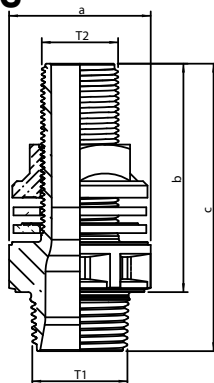
Long Brass Arm				
T1 & T2 BSPT (DN)	a mm Plastic Valve	a mm Brass Valve	b mm	c mm
1" (25mm)	376	371	83	58
Short Brass Arm				
1" (25mm)	250	245	83	58



Adaptor Dimensions



STANDARD ADAPTOR

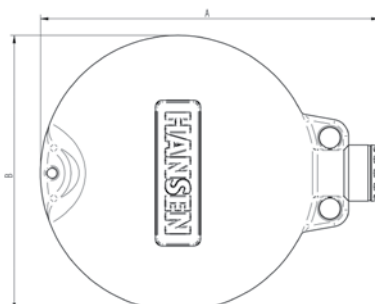


LONG TAIL ADAPTOR

Product	T1 BSPT	T2 BSPT	a mm	b mm	c mm
STANDARD ADAPTORS					
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	34	54
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	35	55
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	48	38	58
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	48	32	52
40mm Adaptor BSPT	1" (25mm)	1 1/2" (40mm)	49	39	59
50mm Adaptor BSPT	1" (25mm)	2" (50mm)	61	44	64
LONG TAIL ADAPTORS					
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	73	93
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	78	98
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	54	78	98
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	64	86	106

Float Dimensions

115mm Threaded Float	
a mm	b mm
133	108
140mm Threaded Float	
164	140



* Applies to both Blue and Hi Viz Floats

Specifications and sizes may change without prior notice

Super-Flo Parts and Materials

The *Super-Flo* Trough Valve is manufactured from Potable Water approved materials

- **Super-Flo Piston Valve Body** – Plastic or Brass
- **Split Pin** – Stainless Steel
- **Slipper Fit Piston** – Plastic
- **Piston O-Ring** – Potable Water Approved
- **Valve Body Washer Seal** – Thermoplastic Polyurethane Elastomer
- **Valve Body Cap Nut** – Glass Fibre Reinforced Nylon
- **Arm** – Brass
- **Cord Nuts** – Glass Fibre Reinforced Nylon
- **Cord** – Polyester

Adaptors

- **Adaptor** – Glass Fibre Reinforced Nylon
- **Adaptor O-Ring** – EPDM (Ethylene Propylene)

Float

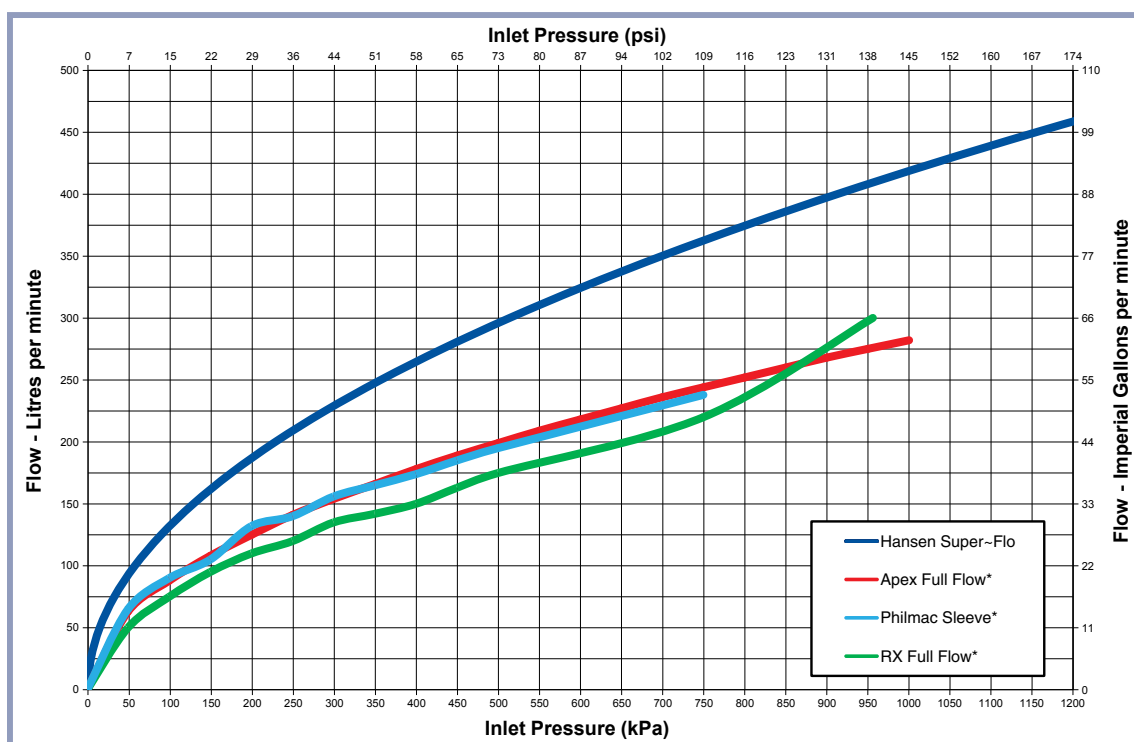
- **Float** – High Density Polyethylene
- **Thread Insert** – Glass Fibre Reinforced Nylon

Super-Flo Working Pressures

The Hansen *Super-Flo* Valve will operate from 0.2 to 12 Bar / 2.9 - 174 PSI

Max Pressure @ 20°C = 12 Bar / 174 PSI

Super-Flo Plastic Valve Flow Chart



Hansen results prepared using the results from independent tests carried out by The University of Auckland, New Zealand.

*Results based on each valve manufacturers test literature.

SuperFlo Plastic Valve Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Drinking Water	X		
Sea Water	X		
Bloat Remedies Diluted		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong			X
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents			X
Hydrocarbons			X
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide			X
Ozone			X
Phenols			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Calcium Chloride			X

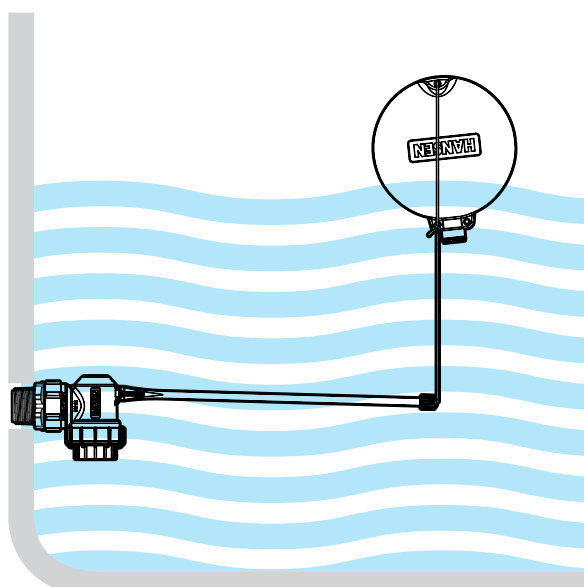
PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Super-Flo Installation Guide

Trough Installation:

- Flush pipe lines into water troughs before installing *Super-Flo* Valve into new system
- Isolate the water trough to replace valve in existing scheme
- Thread O-Ring end of correct size adaptor into valve body and tighten firmly enough that the O-Ring creates a seal against the face. Do not over tighten.

Super-Flo Side Entry



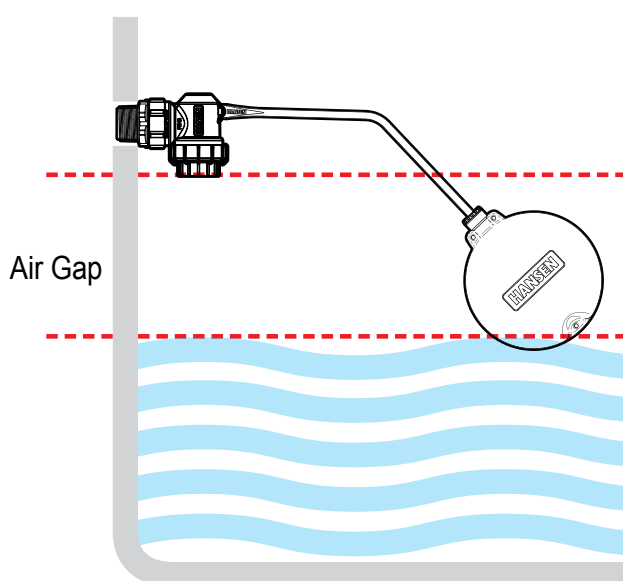
TO CHANGE WATER LEVEL
Adjust length of cord at top of float

Side Entry Trough:

- Thread *Super-Flo* Valve into existing trough fitting
- Screw the nut with cord onto the *Super-Flo* Brass arm
- Thread cord through the *Super-Flo* float. Tie the cord off to achieve the correct on/off and water level

*Cord and nuts only supplied with long arm

Super-Flo Top Entry



Top Entry Trough:

- Thread *Super-Flo* Valve into existing trough fitting
- Screw the float on to the brass arm
- Hold the body of the valve at arm entry point
- Bend brass arm to achieve the correct on/off and water level.

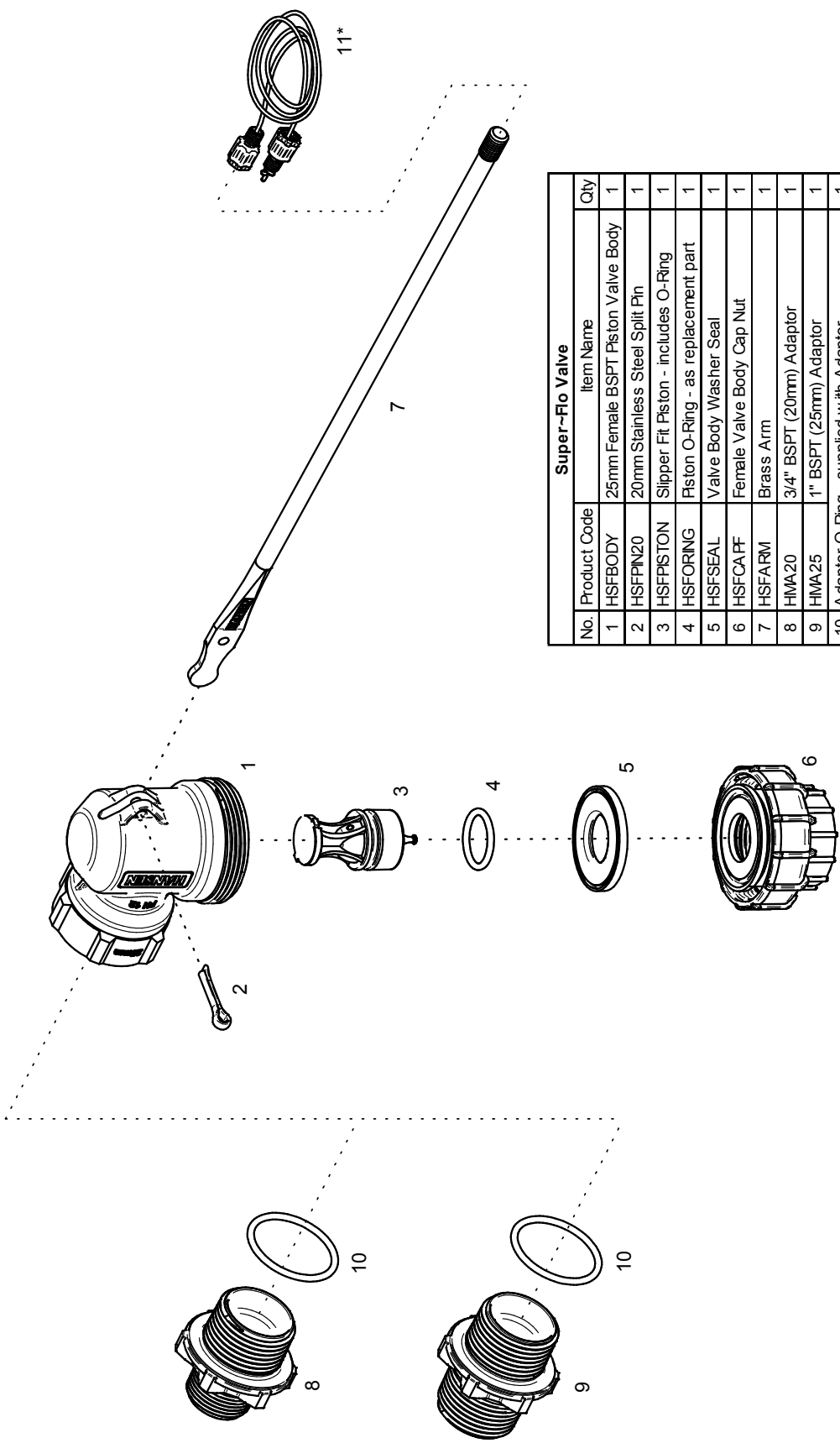
Wall Thickness Guide

Hansen Long Tail Adaptors
Maximum Wall Thickness for
Troughs when screwed into a
Hansen Female Bend

Long Tail Adaptor	Trough Wall
HMAL15	14mm
HMAL20	22mm
HMAL25	19mm
HMAL32	24mm

Super-Flo

Piston Valve Assembly Instructions



Super-Flo Valve		
No.	Product Code	Item Name
1	HSFBODY	25mm Female BSPT Piston Valve Body
2	HSFPIN20	20mm Stainless Steel Split Pin
3	HSFPISTON	Slipper Fit Piston - includes O-Ring
4	HSFORING	Piston O-Ring - as replacement part
5	HSFSEAL	Valve Body Washer Seal
6	HSFCAPF	Female Valve Body Cap Nut
7	HSFARM	Brass Arm
8	HMA20	3/4" BSPT (20mm) Adaptor
9	HMA25	1" BSPT (25mm) Adaptor
10	Adaptor O-Ring - supplied with Adaptor	
11*	HCORD	700mm Cord and Nuts

* Not supplied with short arm Superflo's.

SuperFlo Frequently Asked Questions

Q My troughs have both 20mm & 25mm threaded inlets, does your Hansen *SuperFlo* Valve come in both sizes?

A Yes the Hansen *SuperFlo* Valve comes with the required components to install in 20mm or 25mm threaded inlets. This of course means you only have to buy one valve for all sized inlets.

Q Will the higher flow cost me more to run my pump?

A No, because the Hansen *SuperFlo* Valve is more efficient than what you are used to. The reduced operating pressure required will equate to higher flows at lower pressures at your pump which in turn will reduce pumping time and cost.

Q At present I get valve bounce in my troughs, will your valve stop this?

A Yes, valve bounce is created from high flows at high pressures, because our Hansen *SuperFlo* Valve delivers higher flows than other valves it will effectively reduce line pressure which in return will reduce the incidences of this problem by also reducing water hammer.

Q I have problems with having to forever clean my valves as my water supply can get dirty at times, how will the Hansen *SuperFlo* Valve handle these conditions?

A We have designed the Hansen *SuperFlo* Valve to work in either clean or dirty water situations.

Q What pressure can I run my Hansen *SuperFlo* Valve at?

A The Hansen *SuperFlo* Valve will operate from 0.2Bar to 12Bar.

Q The valves I have at present have a tendency to jam open or closed costing me time and either a bog around my trough or no available water for my stock, will your valve stop this problem?

A Yes the Hansen *SuperFlo* Valve has a new patent pending "Slipper Fit Piston" design seal assembly to minimise this problem.

Q At certain times of the year I need to run portable troughs in my paddocks, is it possible to run these off my existing *SuperFlo* trough valve?

A Yes, the *SuperFlo* trough valve incorporates a 25mm (1") female thread on the valve outlet which you can utilise the spare adaptors that come with this valve to enable you to attach any number of poly pipe fittings to the *SuperFlo* trough valve. This off take can be used for any number of farm applications.

SuperFlo Features

QUALITY BRASS BODY MANUFACTURING

Brass body poured not forged & manufactured in New Zealand. Mini body design to enable easy installation.

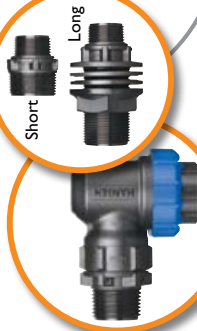
INTERCHANGEABLE SPARE PARTS

All spare parts can be used on either brass or plastic valves.



MALE ADAPTORS

O-Ring seal short adaptors available in 15-50mm and long adaptors from 15-32mm. Manufactured from High Quality Glass Fibre Reinforced Nylon for a weather, termite, fungi & bacteria resistance.



30% BIGGER BODY FOR GREATER FLOWS



HIGH FLOW RATE

29 PSI, 188L/PM



HELP ELIMINATE VALVE STICKING

Patent Pending Slipper Fit Piston designed to reduce valve sticking and tuned to eliminate turbulence, improving flow characteristics.



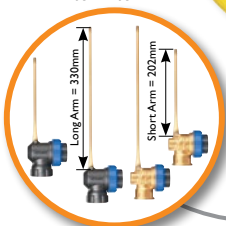
STRONG LONG LIFE SEAL

Versatile, Tuff, Double Sided Urethane Seals.



LONG & SHORT BRASS ARM OPTIONS

D2 Grade & held in with Stainless Steel split pin.
Long Arm = 330mm
Short Arm = 202mm



MATERIALS APPROVED FOR DRINKING WATER

All plastic parts used in the manufacturing of Super-Flo valves have been approved for use with potable water.



Blue Float



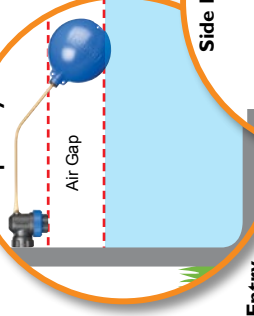
Note: Floats not included and available as a separate accessory



HAND TESTED

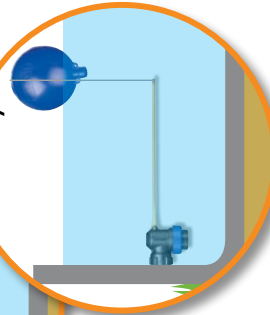
All Hansen Super-Flo Valves are rigorously hand tested using water.

Top Entry



SUITED TO TOP OR SIDE ENTRY

Side Entry



Top Entry Installations

Thread the Super-Flo Valve into existing trough fitting. Screw the float on to the brass arm. Hold the body of the valve at arm entry point. Bend brass arm to achieve the correct on/off and water level.

Side Entry Installations

Thread the Super-Flo Valve into existing trough fitting. Screw the nut with cord onto the Super-Flo Brass arm. Thread cord through the Super-Flo float. Tie the cord off to achieve the correction/off and water level. Note: Cord & Nuts for side entry installations are included with Long Brass Arm packs only.

HDB159 1407

Reliable High Performance Trough Valve

www.hansenproducts.co.nz

HANSEN[®]

SuperFlo Valves

Max~Flo Trough / Tank Valve Technical Information

Max~Flo Features and Benefits

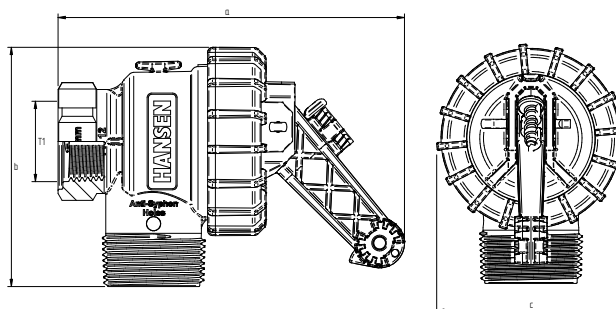
- High Performance, Cost Effective Trough/Tank Valve (29 psi, 570 l/min)
- Suitable for Side, Bottom and Top entry
- Strong Compact Design
- Delivers high volumes of water quickly with unrestricted full flow
- Patent pending* "Self Cleaning Pilot" for use in clean/dirty water
- Low operating pressure required reducing pumping costs and increasing flow
- Manufactured from strong, non corrosive UV stabilised materials
- Mini body design to enable easy installation
- Available in Female and Male BSPT, NPT and ACME thread configurations
- Suitable for High/Low Pressure operations - from 0.2 Bar to 12 Bar
- Variable open and close action preventing valve bounce and water hammer
- *Max~Flo* Diaphragm Valve is supplied with: Complete Valve Body, Adaptors, Adjustable Extension Arm, 100mm Blue Flanged Float and 650mm Cord.

*NB Adaptor Configurations vary per pack

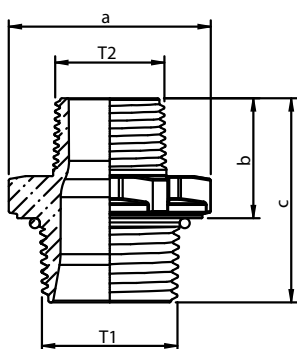
*This product is patent and registered design pending in NZ and other countries and is copyright. *Hi~Flo*, *Max~Flo*, and *Super~Flo* are trade marks of Hansen Products Ltd.

Max~Flo Dimensions

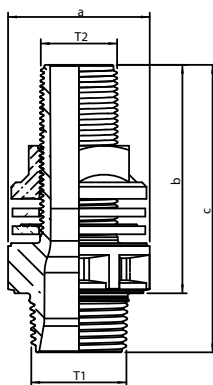
T1 BSPT (DN)	a mm	b mm	c mm
1" (25mm)	144	98	76



Adaptor Dimensions

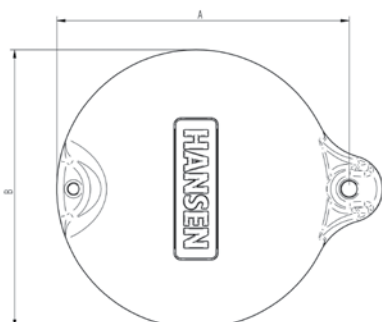


STANDARD ADAPTOR



LONG TAIL ADAPTOR

Product	T1 BSPT	T2 BSPT	a mm	b mm	c mm
STANDARD ADAPTORS					
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	34	54
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	35	55
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	48	38	58
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	48	32	52
40mm Adaptor BSPT	1" (25mm)	1 1/2" (40mm)	49	39	59
50mm Adaptor BSPT	1" (25mm)	2" (50mm)	61	44	64
LONG TAIL ADAPTORS					
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	73	93
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	78	98
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	54	78	98
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	64	86	106



Float Dimensions

100mm Flanged Float	
a mm	b mm
104	100

* Applies to both Blue and Hi Viz Floats

Specifications and sizes may change without prior notice

Max-Flo Parts and Materials

The *Max-Flo* Diaphragm Valve is manufactured from Potable Water approved materials

- **Diaphragm Valve Body** – Glass Fibre Reinforced Nylon
- **Diaphragm** – Nitrile Rubber
- **Guide Bush** – Glass Fibre Reinforced Nylon
- **Spring** – Stainless Steel
- **Split Pin** – Stainless Steel
- **Valve Body Cap** – Acetal
- **Guide Pin** – Stainless Steel
- **Valve Body Cap Nut** – Glass Fibre Reinforced Nylon
- **Arm Seal** – Thermoplastic Polyurethane Elastomer
- **Short Control Arm** – Glass Fibre Reinforced Nylon
- **Screws** – Stainless Steel
- **Adjustable Extension Arm** – Glass Fibre Reinforced Nylon
- **Cord** – Polyester

Adaptors

- **Adaptor** – Glass Fibre Reinforced Nylon
- **Adaptor O-Ring** – EPDM (Ethylene Propylene)

Float

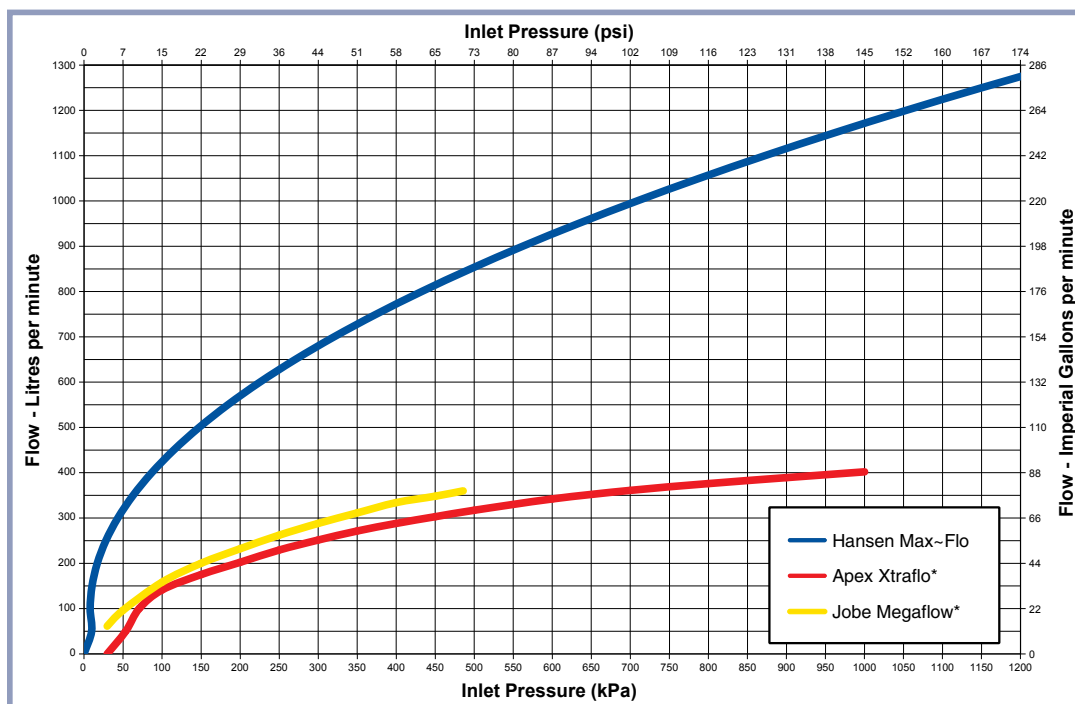
- **Float** – High Density Polyethylene
- **Thread Insert** – Glass Fibre Reinforced Nylon

Max-Flo Working Pressures

The Hansen *Max-Flo* Valve will operate from 0.2 to 12 Bar / 2.9 - 174 PSI

Max Pressure @ 20°C = 12 Bar / 174 PSI

Max-Flo Valve Flow Chart



Hansen results prepared using the results from independent tests carried out by The University of Auckland, New Zealand.

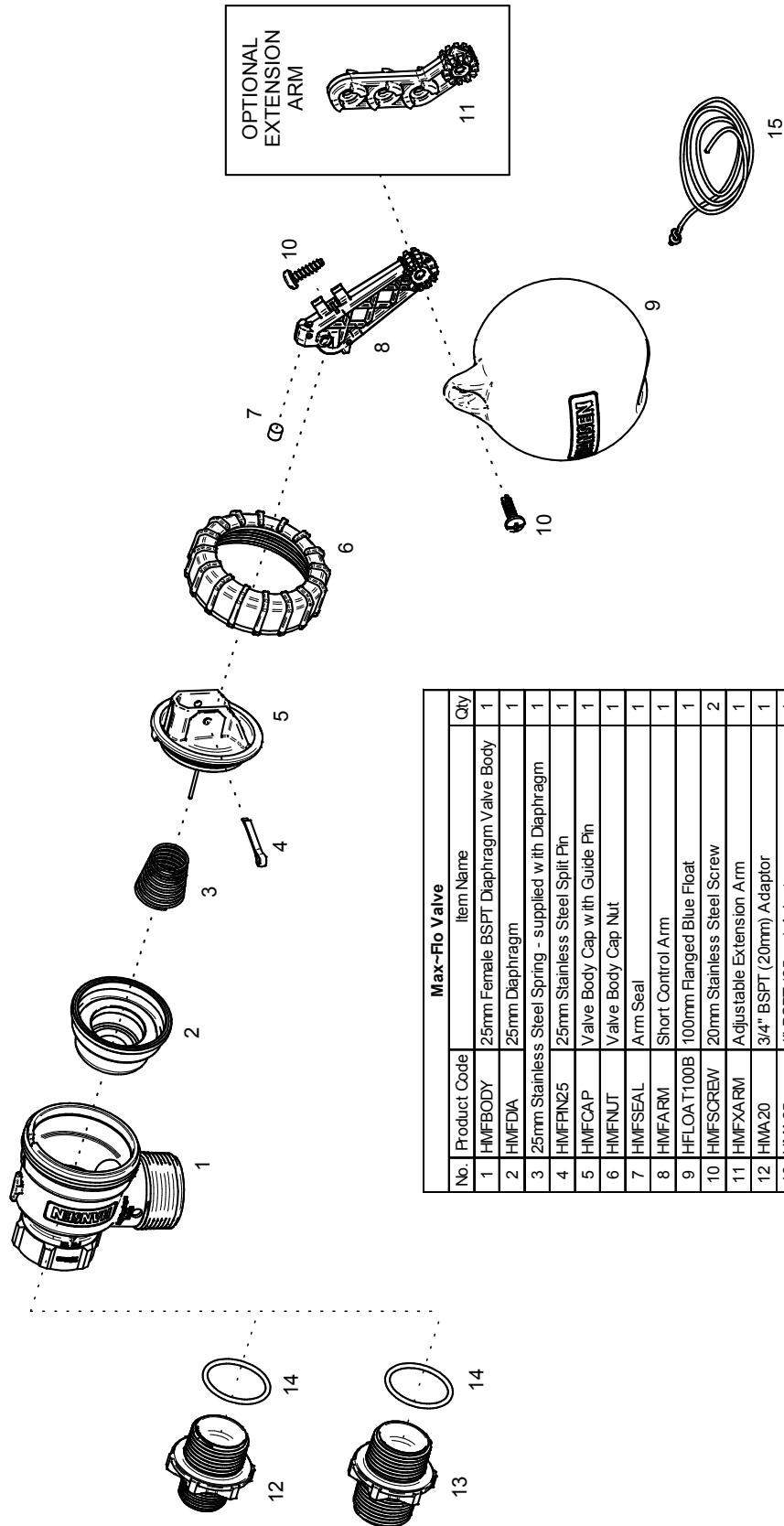
*Results based on each valve manufacturers test literature.

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Drinking Water	X		
Sea Water	X		
Bloat Remedies Diluted		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong			X
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents			X
Hydrocarbons			X
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide			X
Ozone			X
Phenols			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Calcium Chloride			X

Max-Flo Chemical Resistance Chart

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Max~Flo Diaphragm Valve Assembly Instructions



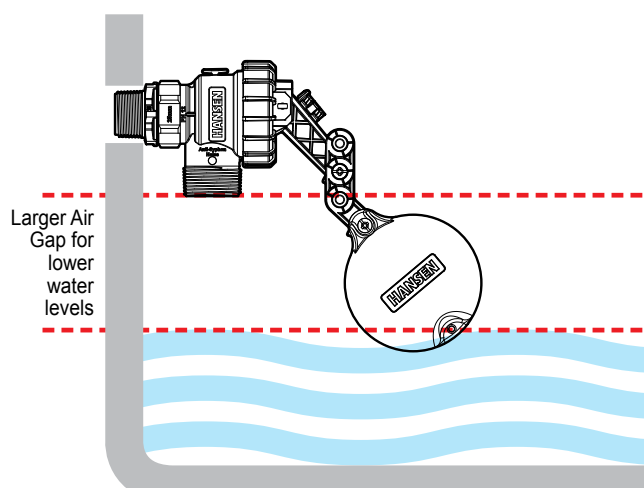
Max-Flo Valve			
No.	Product Code	Item Name	Qty
1	HMFBDY	25mm Female BSPT Diaphragm Valve Body	1
2	HMFDA	25mm Diaphragm	1
3	25mm Stainless Steel Spring - supplied with Diaphragm		1
4	HMFN25	25mm Stainless Steel Split Pin	1
5	HMFCAP	Valve Body Cap with Guide Pin	1
6	HMFNUT	Valve Body Cap Nut	1
7	HMFSEAL	Arm Seal	1
8	HMFARM	Short Control Arm	1
9	HFLOAT100B	100mm Flanged Blue Float	1
10	HMFSCREW	20mm Stainless Steel Screw	2
11	HMFARM	Adjustable Extension Arm	1
12	HMA20	3/4" BSPT (20mm) Adaptor	1
13	HMA25	1" BSPT (25mm) Adaptor	1
14	Adaptor O-Ring - supplied with Adaptor		1
15	HMFCORD	650mm Cord	1

Max-Flo Installation Guide

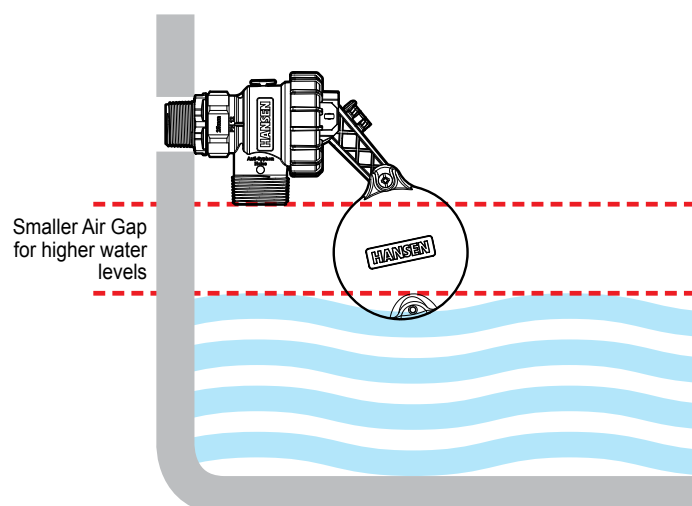
Trough Installation:

- Flush lines into water troughs before installing *Max-Flo* Valve into new system
- Isolate water trough to replace valve in existing scheme
- Thread O-Ring end of correct size adaptor into valve body and tighten firmly enough that the O-Ring creates a seal against the face. Do not over tighten

Max-Flo Top Entry



With extension arm for use with lower water levels



Top Entry Trough:

- Thread *Max-Flo* Valve into existing trough fitting
- Determine the on/off point and water level required
- Use supplied Adjustable Extension Arm when a larger air gap is required
- Adjust the float and arms to suit required angle

Wall Thickness Guide

Hansen Long Tail Adaptors
 Maximum Wall Thickness for
 Tanks when screwed into a
 Hansen Female Bend

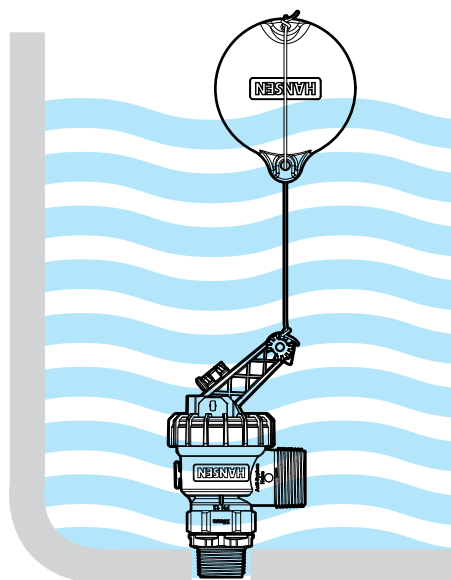
Long Tail Adaptor	Trough / Tank Wall
HMAL15	14mm
HMAL20	22mm
HMAL25	19mm
HMAL32	24mm

Max-Flo Installation Diagrams

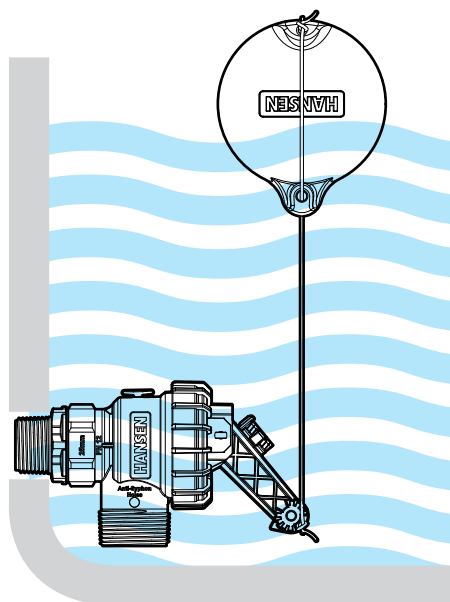
Trough Installation:

- Flush lines into water troughs before installing *Max-Flo* Valve into new system
- Isolate water trough to replace valve in existing scheme
- Thread O-Ring end of correct size adaptor into valve body

Max-Flo Bottom Entry



Max-Flo Side Entry



TO CHANGE ON/OFF & WATER LEVEL Adjust the length of the cord at the top of the float

Bottom or Side Entry Trough:

- Thread *Max-Flo* Valve into existing trough fitting
- Thread cord through the float, adjust cord to required on/off level then tie off

Tank Installation:

- Install tank fitting into water tank
- Flush lines into water tank before installing *Max-Flo* Valve into system
- Thread O-Ring end of correct size adaptor into valve body
- Thread *Max-Flo* Valve into Tank Fitting inside tank
- Thread cord through the float, adjust cord to required on/off level then tie off

Max-Flo Frequently Asked Questions

Q Can I use the Hansen *Max-Flo* Valve as a top entry valve with an air gap?

A Yes, the Hansen *Max-Flo* Valve can be installed at the top, side or bottom entry as all components come with each valve.

Q My troughs have both 20mm & 25mm threaded inlets. Does the Hansen *Max-Flo* Valve come in both sizes?

A Yes the Hansen *Max-Flo* Valve comes with the required components to install in 20mm or 25mm threaded inlets. This of course means you only have to buy one valve for all sized inlets.

Q Will the higher flow cost me more to run my pump?

A No, because the Hansen *Max-Flo* Valve is more efficient than what you are used to. The reduced operating pressure required will equate to higher flows at lower pressures at your pump which in turn will reduce pumping time and cost.

Q At present I get valve bounce in my troughs, will the Hansen *Max-Flo* Valve stop this?

A Yes, valve bounce is created from high flows at high pressures, the Hansen *Max-Flo* Valve opens and closes slower than other valves so will reduce incidences of this problem.

Q I have problems with having to constantly clean my valves as my water supply can get dirty at times, how will your valve handle these conditions?

A Our patent pending "Self Cleaning Pilot" will increase durability and suitability in dirty water situations.

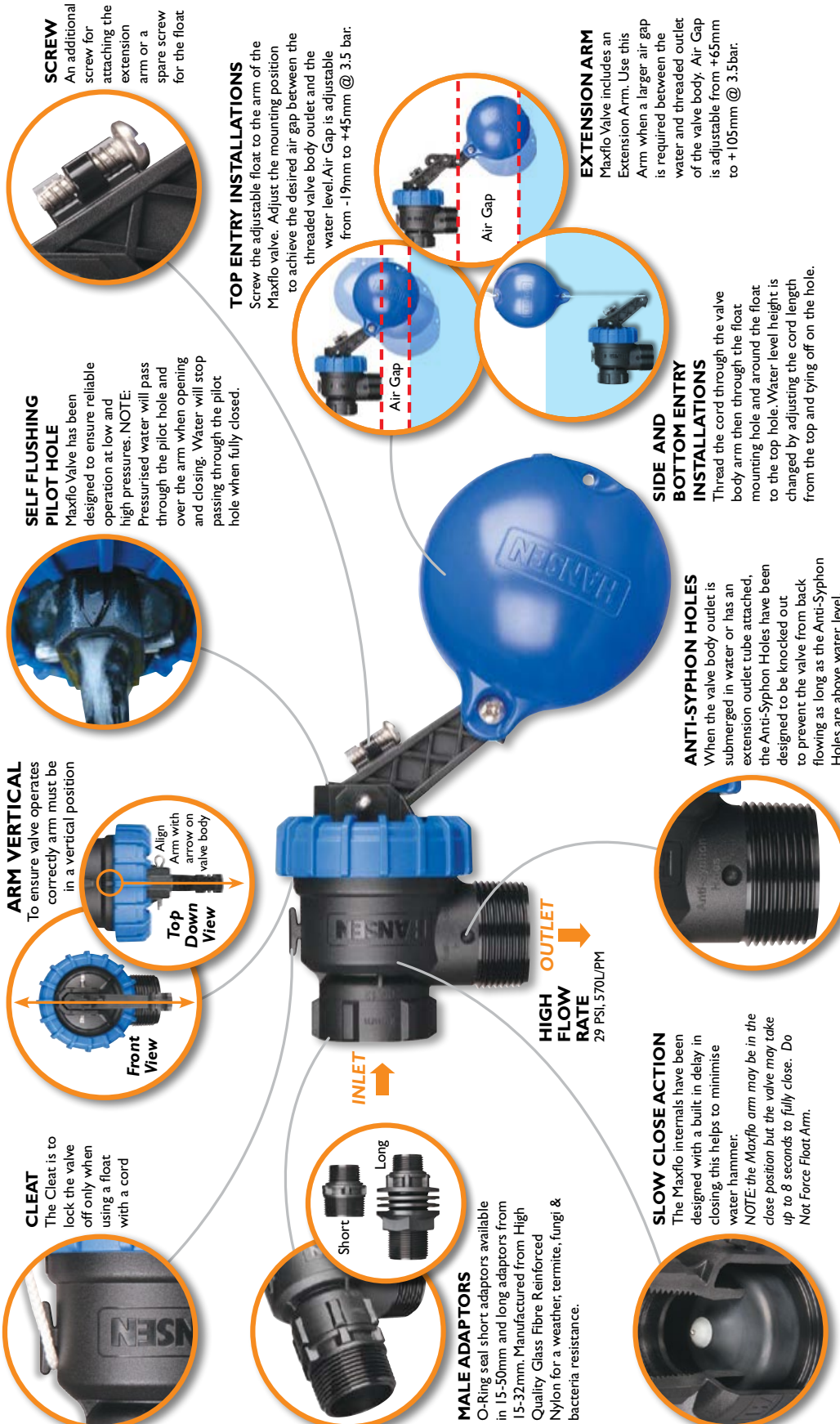
Q At present I have noticed some shuddering & noise in my pipelines when my pump starts & stops, will your valve stop this?

A Yes this is called water hammer, we have designed the Hansen *Max-Flo* Valve to open & close slower than other valves effectively varying the flows at these times to minimise the chance of water hammer.

Q What pressure can I run my Hansen *Max-Flo* Valve at?

A The Hansen *Max-Flo* Valve will operate from 0.2Bar to 12Bar.

Max-Flo Features



SELF FLUSHING PILOT HOLE

Maxflo Valve has been designed to ensure reliable operation at low and high pressures. NOTE: Pressurised water will pass through the pilot hole and over the arm when opening and closing. Water will stop passing through the pilot hole when fully closed.

SCREW

An additional screw for attaching the extension arm or a spare screw for the float

TOP ENTRY INSTALLATIONS

Screw the adjustable float to the arm of the Maxflo Valve. Adjust the mounting position to achieve the desired air gap between the threaded valve body outlet and the water level. Air Gap is adjustable from -19mm to +45mm @ 3.5 bar.

EXTENSION ARM

Maxflo Valve includes an Extension Arm. Use this Arm when a larger air gap is required between the water and threaded outlet of the valve body. Air Gap is adjustable from +65mm to +105mm @ 3.5bar.

SIDE AND BOTTOM ENTRY INSTALLATIONS

Thread the cord through the valve body arm then through the float mounting hole and around the float to the top hole. Water level height is changed by adjusting the cord length from the top and tying off on the hole.

ANTI-SYPHON HOLES

When the valve body outlet is submerged in water or has an extension outlet tube attached, the Anti-Siphon Holes have been designed to be knocked out to prevent the valve from back flowing as long as the Anti-Siphon Holes are above water level.

OUTLET
HIGH FLOW RATE
29 PSI, 570L/PM

INLET

MALE ADAPTORS

O-Ring seal short adaptors available in 15-50mm and long adaptors from 15-32mm. Manufactured from High Quality Glass Fibre Reinforced Nylon for a weather, termite, fungi & bacteria resistance.

SLOW CLOSE ACTION

The Maxflo internals have been designed with a built in delay in closing, this helps to minimise water hammer.

NOTE: the Maxflo arm may be in the close position but the valve may take up to 8 seconds to fully close. Do Not Force Float Arm.

NOTE: High performance can cause water turbulence when used in top entry installations. To minimise use a Hansen HFS32 with a short piece of poly pipe to act as a diffuser. To prevent back flow when using a diffuser use the Anti-Siphon Holes.

Reliable High Performance Trough/Tank Valve

www.hansenproducts.co.nz

HANSEN[™]

Max-Flo Valves

Leveller Valve

Reservoir / Tank Valve Technical Information

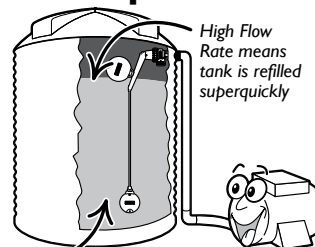
Leveller Valve Features and Benefits

- High performance cost effective Reservoir/Tank valve
- Adjustable Minimum and Maximum on off control (50mm - 2.5 metre)
- Suitable for High/Low pressures (0.2 Bar - 12 Bar)
- Delivers high volumes of water quickly with unrestrictive full flow (1275 l/min at 12 Bar)
- Patent pending "self cleaning pilot" for use in clean/dirty water conditions.
- Soft open and close action preventing valve bounce and water hammer
- Strong compact design
- Threaded outlet for use with a diffuser tube, ideal for high flows, eliminating turbulence
- Punch out anti-syphon holes for multi tank filling or diffuser installations
- Manufactured from strong, non corrosive UV stabilised materials
- Valve supplied with Glass Fibre Reinforced Nylon valve body and 32, 40, 50mm Standard Adaptors, Leveller Control, 115mm Weighted HiViz Threaded Ball, 140mm Blue Threaded Float, 2.5 Metre Cord.

Protect Your Pump

✓ Lengthen Your Pumps Life

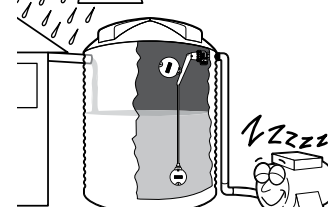
A well cared for pump is a happy pump! Adding the Hansen *Leveller Valve* to your System means the tank only refills when it gets low. No more on/off cycling of your pump equals less work, less pump maintenance and a more reliable system.



Pump only switches on when the tank is low

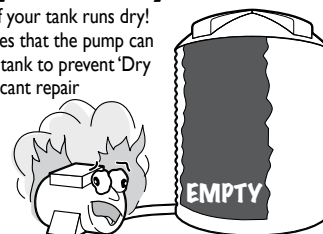
✓ Rain Harvest & Only Pump When You Need To

The Hansen *Leveller Valve* is the perfect choice for systems that combine Rain Harvesting with Supplementary Pumping from alternative sources. The Pump only ever needs to work when rain levels are low and the tank needs topping up.

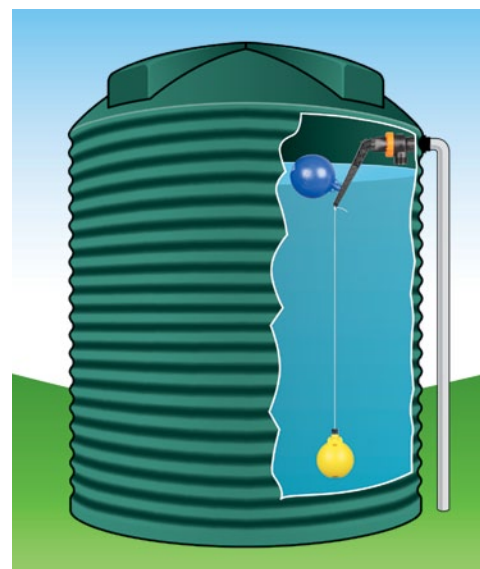
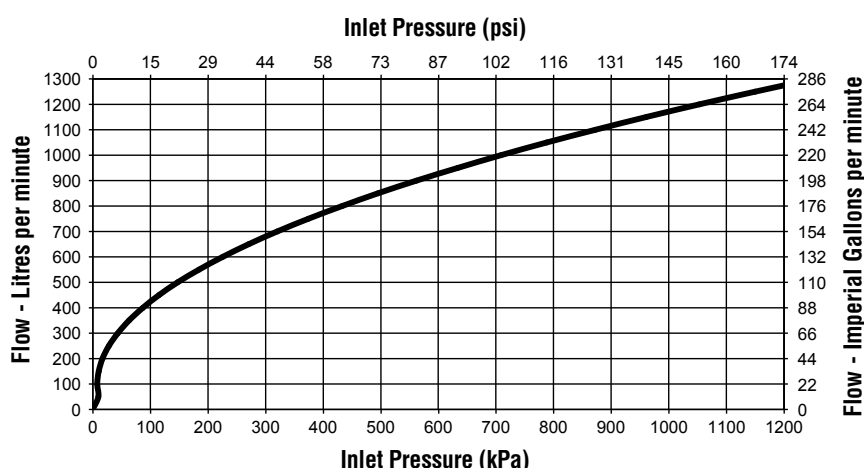


✓ Prevent Dry Tank Syndrome

Pumps can be severely damaged if your tank runs dry! The Hansen *Leveller Valve* ensures that the pump can always supply enough fluid to the tank to prevent 'Dry Tank Syndrome', preventing significant repair costs as a result of a lack of supply.



Leveller Valve Flow Chart



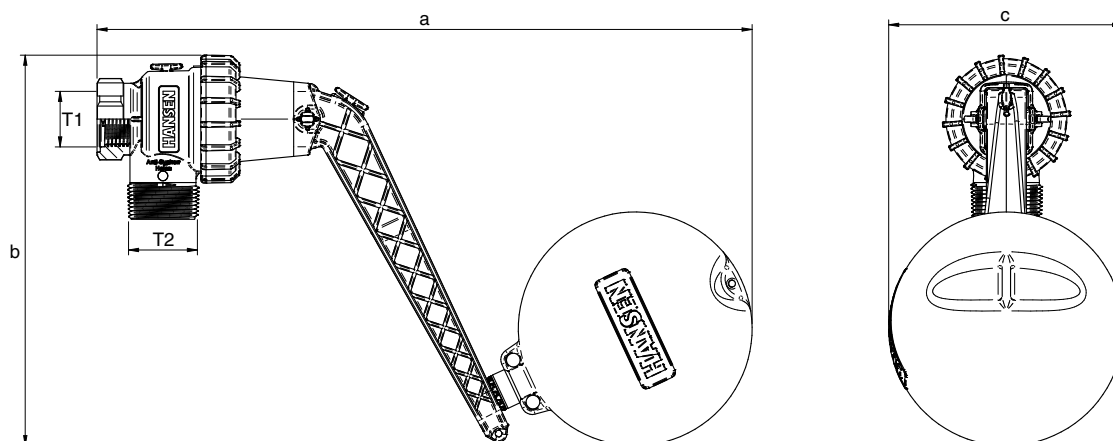
Leveller Valve Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Drinking Water	X		
Sea Water	X		
Bloat Remedies Diluted		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong			X
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents			X
Hydrocarbons			X
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide			X
Ozone			X
Phenols			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Calcium Chloride			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

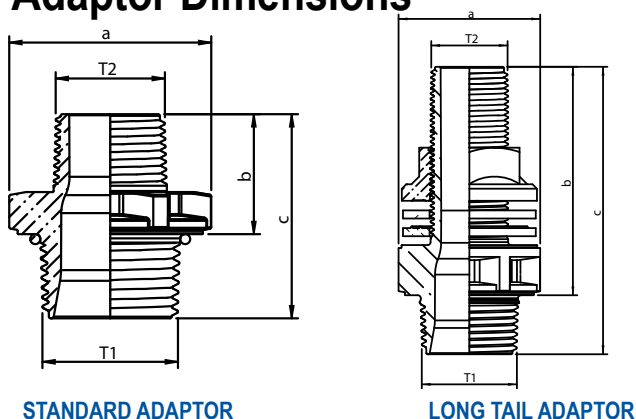
Leveller Valve Dimensions

T1 BSPT (DN)	T2 BSPT	a mm	b mm	c mm
1" (25mm)	1 1/4" (32mm)	393	232	140



The *Leveller* Valve is manufactured from Potable Water approved materials

Adaptor Dimensions



STANDARD ADAPTOR

LONG TAIL ADAPTOR

Product	T1 BSPT	T2 BSPT	a mm	b mm	c mm
STANDARD ADAPTORS					
15mm Adaptor BSPT	1" (25mm)	1/2" (15mm)	48	34	54
20mm Adaptor BSPT	1" (25mm)	3/4" (20mm)	48	35	55
25mm Adaptor BSPT	1" (25mm)	1" (25mm)	48	38	58
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	48	32	52
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25mm Adaptor BSPT	1" (25mm)	1" (25mm)	54	78	98
32mm Adaptor BSPT	1" (25mm)	1 1/4" (32mm)	64	86	106

Leveller Valve Materials

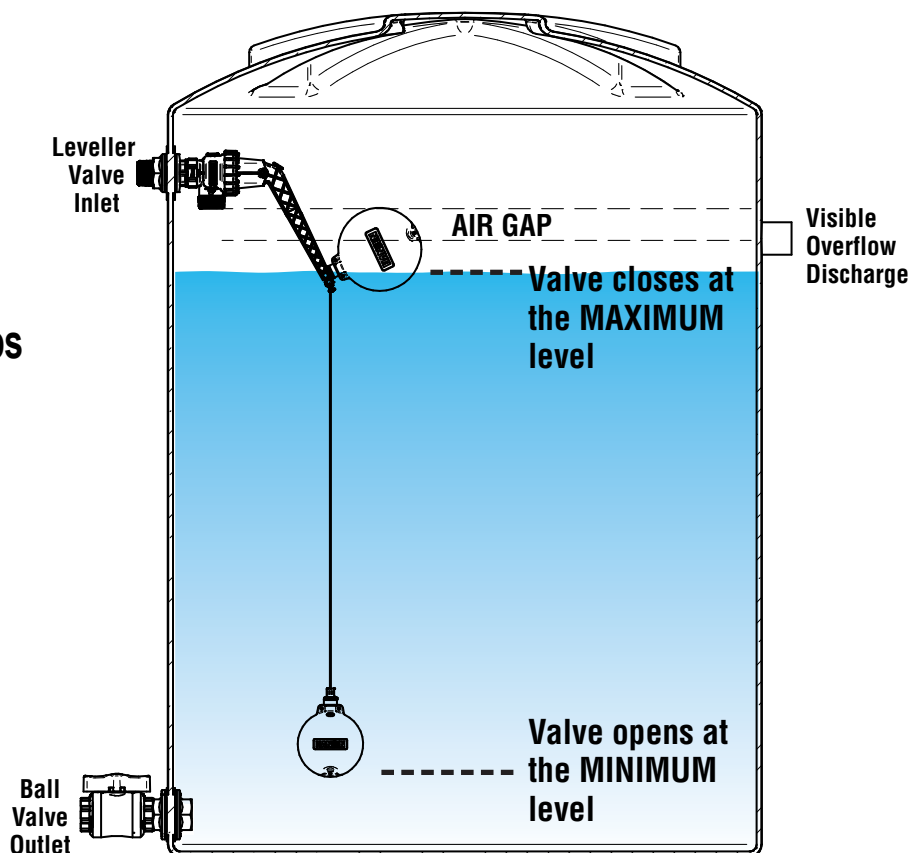
- **Diaphragm Valve Body** – Glass Fibre Reinforced Nylon
 - **Diaphragm** – Nitrile Rubber
 - **Guide Bush** – Glass Fibre Reinforced Nylon
 - **Guide Retainer** – Acetal
 - **Springs** – Stainless Steel
 - **Split Pin** – Stainless Steel
 - **Valve Body Cap** – Acetal
 - **Guide Pin** – Stainless Steel
 - **Valve Body Cap Nut** – Glass Fibre Reinforced Nylon
 - **Pilot Seal** – Nitrile Rubber
 - **Float Arm** – Glass Fibre Reinforced Nylon
 - **Housing** – Glass Fibre Reinforced Nylon
 - **Roller** – Acetal
 - **Plunger Housing** – Glass Fibre Reinforced Nylon
 - **Pivot Tube** – Acetal
 - **Clamp Block** – Glass Fibre Reinforced Nylon
 - **Clamp Bolt** – Stainless Steel
 - **Cord Nut** – Glass Fibre Reinforced Nylon
 - **Cord** – Polyester
- Adaptors**
- **Adaptor** – Glass Fibre Reinforced Nylon
 - **Adaptor O-Ring** – EPDM (Ethylene Propylene)
- Float**
- **Float** – High Density Polyethylene
 - **Thread Insert** – Glass Fibre Reinforced Nylon
- Weight**
- **Weight** – Stainless Steel

Specifications and sizes may change without prior notice

Leveller Valve Installation Steps

The maximum level is set by the position of the top float on the valve arm - allowing for maximum use of the tanks height.

The minimum water level is set by adjusting the length of the cord between the top float and bottom weighted Ball.



Leveller Valve Installation

- 1 Install tank fitting into water tank / reservoir as per Hansen tank fitting installations steps Section Twelve Page 2.
- 2 Flush lines into water tank / reservoir before installing Leveller Valve into system.
- 3 Thread O-Ring end of correct size adaptor into Leveller valve body.
- 4 Thread Leveller Valve into Tank Fitting inside tank.
- 5 Adjust position of float on Leveller Float Arm to set the upper water level allowing for air gap as required.
- 6 Screw the Cord Nut into the Weighted Ball.
- 7 Tie the cord to the bottom end of the Leveller Float Arm with the Weight at the required lower water level. Note: the lower water level must be above the tank outlet.
- 8 Fill the Weighted Ball with water through the holes.

Wall Thickness Guide

Hansen Long Tail Adaptors Maximum Wall Thickness for Tanks when screwed into a Hansen Female Bend

Long Tail Adaptor	Tank Wall
HMAL15	14mm
HMAL20	22mm
HMAL25	19mm
HMAL32	24mm

Leveller Valve Frequently Asked Questions

Q I have noticed my pump switching on and off rapidly at times, will your *Leveller Valve* stop this?

A Yes, this is called cycling and can drastically reduce the life of your pump. The Hansen *Leveller Valve* is designed to control your pump safely by eliminating pump cycling and providing an adjustable water differential depth in your tank.

Q I only irrigate from my tank at night and have a timer on my bore pump. It will only fill my tank at night when I'm irrigating but I still find my bore pump is cycling when I'm irrigating. Will the Hansen *Leveller Valve* help in this situation?

A Yes, you will find the reservoir valve you are using at the moment is only supplying a flow close to your irrigation demand, with the Hansen *Leveller Valve* the flow delivery will be much higher and will allow your bore pump to run for less time as well as setting a differential in the tank to enable your pump to shut off for sensible periods.

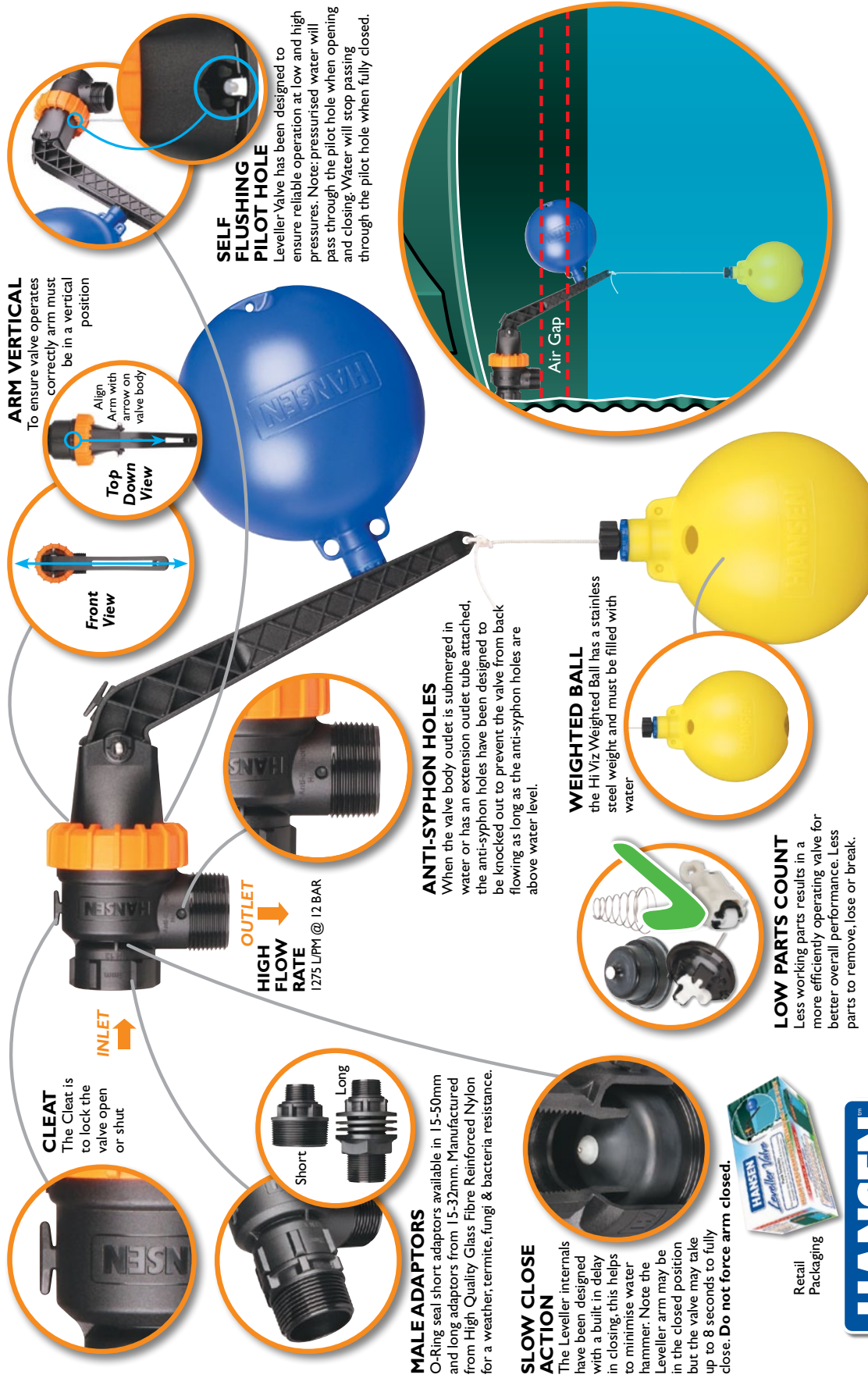
Q In my dairy shed at peak water demand times I find my pump is cycling. As demand increases they run continuously and often cannot keep up, resulting in no water in troughs and other areas in my shed. Will your *Leveller Valve* fix this issue?

A Yes, as long as your pumps are sized correctly to cover your peak demand the Hansen *Leveller Valve* will help by delivering a much higher flow at a much lower pressure e.g. 400kPa (58 psi) = 772 l/min (170 gpm)

Q For years now I have had problems with filling my tanks as my water supply can get very dirty at times. I believe I have purchased every valve on the market and all have let me down at some point, will the Hansen *Leveller Valve* finally fix my problem?

A Yes, our range of HiFlo Valves are designed to handle dirty water. With the Hansen *Leveller Valve* which is based on our diaphragm valves it is unique in that it has a pin that cleans the pilot hole in the diaphragm every time it opens and closes. In addition to that the gap between the diaphragm and the valve body when open is a huge 14mm further reducing potential blockages.

Leveller Features



708158 1407

Reliable HiFlo Reservoir/Tank Valve

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HANSENTM
Leveller Valve

Quick Connect Unions



Best Installed Value

SECTION FOURTEEN

TECHNICAL SPECIFICATIONS

Barrel Union



Knuckle Union



Quick Connect Unions Technical Specifications

Quick Connect Knuckle Unions Features and Benefits

- Used to connect and disconnect pipe work or valves quickly and easily from pumps and existing installations
- Ultimate flexibility around pumps
- Quick connect/disconnect solution around pumps or along the trunk of a pipe
- 9° 'Knuckle' movement providing greater flexibility at installation time, removing the necessity of the pipe work having to line up exactly with your pump
- Pump can easily be removed or installed from system for servicing by undoing common nut
- Pump can be misaligned from pipe work by a total of 9°
- Multiple configurations enables this fitting to meet the needs of just about any situation
- Ability to connect to poly pipe applications directly from the pump or in-line
- Fits onto the extensive range of Hansen *Easy Fit* & *True Fit* Pipe Fittings

Quick Connect Knuckle Unions Parts and Materials

- Body and Nuts Highest Quality Glass Fibre Reinforced Nylon
- O-Ring Nitrile Rubber
- Ring Stainless Steel

Quick Connect Knuckle Unions Working Pressure

Hansen *Quick Connect* Knuckle Union Maximum Working Pressure; 10 Bar (1000 kPa. 145 psi) @ 20°C

Quick Connect Knuckle Unions Approvals

AS/NZS 4020 – HANSEN[™] *Quick Connect* Unions from 15mm to 50mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

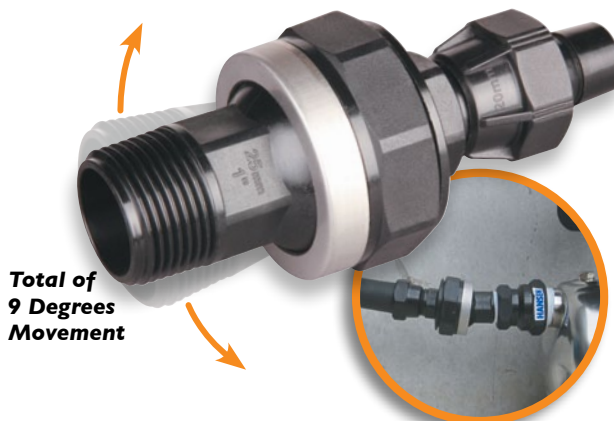
Fire Rating UL94HB

See our website for further details.

Hansen Knuckle Union - Ultimate Flexibility

Ultimate Flexibility Around Pumps

The Hansen *Quick Connect* Knuckle Union is the ultimate quick connect/disconnect solution around pumps. With a flexible 'knuckle' joint of up to 9 degrees movement, now you don't have to worry if your pipe work doesn't line up exactly with your pump, the flexible Hansen *Quick Connect* Knuckle Union takes care of that for you!

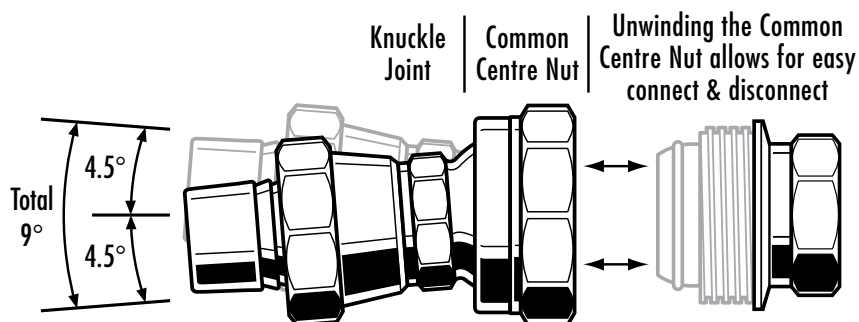
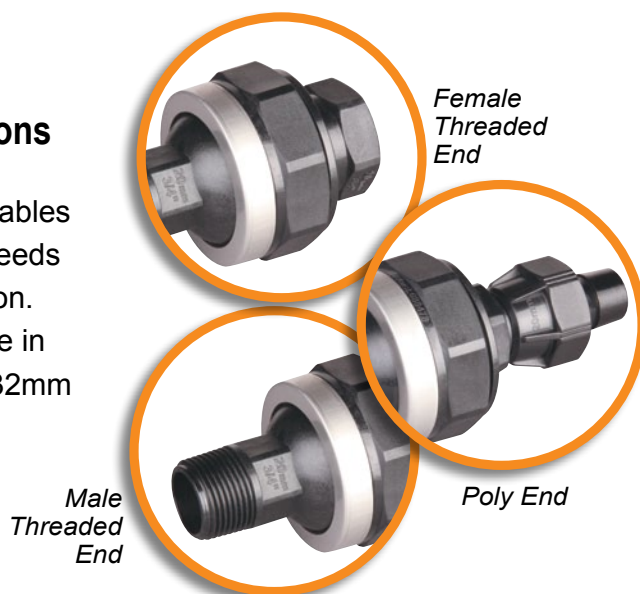


IDEAL FOR...

- Pump or pipe work off centre and needing flexibility
- Connecting to poly pipe applications directly from the pump or in-line
- Connect/disconnect from pump or along the trunk of a pipe

Multiple Configurations

Multiple connections enables this fitting to meet the needs of just about any situation. All connections available in sizes 20mm, 25mm or 32mm ($\frac{3}{4}$ ", 1", $1\frac{1}{4}$ " BSPT).



Quick Connect Knuckle Unions Installation Steps

Please refer to the *Easy Fit* Pipe Fitting installation instructions Section Ten, Page 2 and then follow steps below.

All pipe work must be adequately supported



1 Line up the two ends of the *Quick Connect* Knuckle Union



2 Join the two parts together by winding the Common Centre Nut on to the matching Male Thread



3 Insure the Common Centre Nut is firmly tightened. DO NOT OVER TIGHTEN



4 Finish connection, Poly Pipe connected with *Quick Connect* Knuckle Union

*Photos shown in Poly x Poly.
Many other configurations available.*

Quick Connect Barrel Unions Features and Benefits

- Designed to enable Quick Connect / Disconnect around pumps, tanks, dairy sheds and irrigation
- Flat face for easy uninstal makes uninstalling pumps & pipe work a breeze!
- Strong & Compact, perfect solution for tight spaces
- When the common nut is wound off, the pipe simply 'slips down'
- Great for tight spaces that have little room for connecting & disconnecting
- Ideal for connecting and disconnecting larger pump and pipes
- Perfect for off centred pipe work
- Ability to connect / disconnect from pump or along the trunk of a pipe
- Multiple configurations enables this fitting to meet the needs of just about any situation
- Ability to connect to poly pipe applications directly from the pump or in-line
- Fits onto the extensive range of Hansen *Easy Fit* & *True Fit* Pipe Fittings

Quick Connect Barrel Unions Parts and Materials

Body and Nuts Highest Quality Glass Fibre Reinforced Nylon

Quick Connect Barrel Unions Working Pressure

Hansen Quick Connect Barrel Union Maximum Working Pressure;
16 Bar (1600 kPa. 235 psi) @ 20°C

Quick Connect Barrel Unions Approvals

AS/NZS 4020 – HANSEN™ *Quick Connect* Unions from 15mm to 50mm have met the requirements of AS/NZS 4020 Australia & New Zealand drinking water test standard.

Fire Rating UL94HB

See our website for further details.

Hansen Barrel Union - Strong & Compact

Perfect Solution For Tight Spaces

Aside from being a great choice for your every day quick connect/disconnect union needs, the Hansen *Quick Connect* Barrel Union's compact design makes it the perfect choice for tight spaces with little movement to spare.

Available in sizes

15mm, 20mm, 25mm, 32mm, 40mm,
50mm, 25x20mm, 32x25mm.

(1/2" 3/4", 1", 1 1/4", 1 1/2",
2", 1"x 3/4", 1 1/4"x1"
BSP).



Easy Slip Down Action

The easy slip down action makes uninstalling pumps & pipe work a breeze! When the common nut is wound off, the pipe simply 'slips down' with virtually no extra forward or backward movement required to separate the connection.

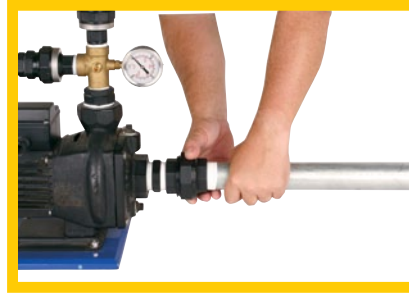
IDEAL FOR...

- Tight spaces that have little room for connecting & disconnecting
- Connecting and disconnecting larger pump and pipe sizes
- Where adjustment for off centred pipe work isn't a concern
- Connect/disconnect from pump or along the trunk of a pipe

Quick Connect Barrel Unions Quick & Easy Installation - Pump to Pipe

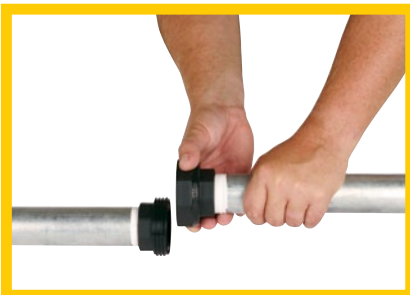


1 Disconnect current pipe from pump by unwinding the Common Centre Nut



2 Connect the new pipe to pump by winding the Common Centre Nut onto the matching male thread

Quick Connect Barrel Unions Quick & Easy Installation - Pipe to Pipe



1 Disconnect current pipe by unwinding the Common Centre Nut



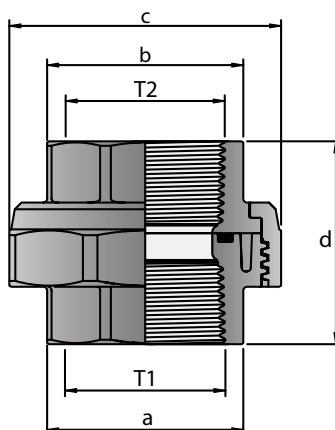
2 Connect new pipe to pipe by winding the Common Centre Nut onto the matching male thread

Dimensions

Barrel Union Code: HBU

Product Code	T1 BSPF	T2 BSPF	a (AF) mm	b (AF) mm	c AF) mm	d mm
HBU15	1/2" (15mm)	1/2" (15mm)	28	28	45	43
HBU20	3/4" (20mm)	3/4" (20mm)	34	34	51	46
HBU25	1" (25mm)	1" (25mm)	41	41	62	53
HBU2520	1" (25mm)	3/4" (20mm)	41	34	62	53
HBU32	1 1/4" (32mm)	1 1/4" (32mm)	51	51	71	55
HBU3225	1 1/4" (32mm)	1" (25mm)	51	41	71	55
HBU40	1 1/2" (40mm)	1 1/2" (40mm)	58	58	81	64
HBU50	2" (50mm)	2" (50mm)	71	71	96	67

AF = Across Flats



Barrel Union O Ring Sizes

Product Code	T1 BSPF	O Ring Sizes
HBU15	1/2" (15mm)	18 x 2.5 N70
HBU20	3/4" (20mm)	24 x 2.5 N70
HBU25	1" (25mm)	30 x 3.0 N70
HBU2520	1" x 3/4" (25mm x 20mm)	30 x 3.0 N70
HBU32	1 1/4" (32mm)	38 x 3.0 N70
HBU3225	1 1/4" x 1" (32mm x 25mm)	38 x 3.0 N70
HBU40	1 1/2" (40mm)	44 x 3.0 N70
HBU50	2" (50mm)	56 x 3.0 N70

N70= Nitrile Rubber
70 Shore Hardness

N = Nitrile Rubber, 70 = Shore Hardness

Specifications and sizes may change without prior notice

Quick Connect Knuckle & Barrel Unions Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong		X	
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel	X		
Automotive Lubricants	X		
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents		X	
Hydrocarbons	X		
Halogens			X
Alcohols			X
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide		X	
Phenols			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Quick Connect Knuckle and Barrel Unions Frequently Asked Questions

Q Can I use your Hansen *Quick Connect* Union for easy service of my pump?

A Yes, by installing an Hansen *Quick Connect* Union on both the inlet and outlet you effectively have a barrel union and poly joiner in one fitting which allows you to undo two common centre nuts and easily lift your pump out for service.

Q I have a situation where I would like to connect into an existing stock water line out the back of the farm for filling a spray tank to save travel time when spraying. Can I use a Hansen *Quick Connect* Union for this purpose?

A Yes, as long as there is an isolating valve nearby you can install a poly to poly Hansen *Quick Connect* Union and purchase a ball to poly pipe tail for your tank fill pipe length and quickly hook into this line when required.

Q I've had to replace my suction fitting on my pump as it snapped and now I can't align my pump back to the bolts it was held in place with. Will your Hansen *Quick Connect* Union help me here?

A Yes, the reason your fitting failed was the same reason you can't line up the bolt holes now, the suction line was never lined up with the pump intake. Try a male to poly Hansen *Quick Connect* Union in the size you require. This will also mean you can bolt down your pump first, attach both parts of the Hansen *Quick Connect* Union to the pump and poly pipe and then just connect the fitting with common centre nut.

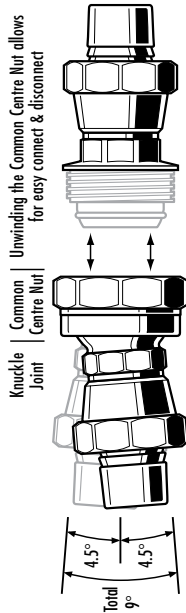
Knuckle Union Features

HIGH QUALITY DURABLE MATERIALS
Manufactured from Strong 304 grade stainless steel and UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance



ULTIMATE FLEXIBILITY AROUND PUMPS

The Hansen Knuckle Union is the ultimate quick connect/disconnect solution around pumps. With a flexible 'knuckle' joint of up to 9 degrees movement, now you don't have to worry if your pipe work doesn't line up exactly with your pump, the flexible Hansen Knuckle Union takes care of that for you!



POTABLE WATER APPROVED
Materials approved for use with Potable (drinkable) Water
AS/NZS 4020



EASY TO USE
As with all Hansen fittings, simplicity & ease of use remain at the core of the Hansen Quick Connect Knuckle Union.

3. Insure the Common Centre Nut is firmly tightened. Do not over tighten.



TIME TESTED CONNECTIONS

Uses the same time tested Hansen Easy Fit and True Fit connections as in other ranges.



2. Join the two parts together by winding the Common Centre Nut onto the matching Male Thread



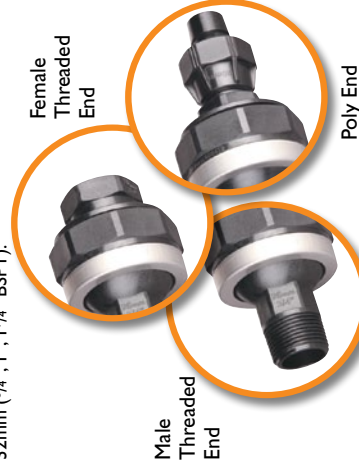
1. Line up the two ends of the Quick Connect Knuckle Union

Total of 9 Degrees Movement

MULTIPLE CONFIGURATIONS

Multiple connections enables this fitting to meet the needs of just about any situation. All connections available in sizes 20mm, 25mm or 32mm (3/4", 1", 1 1/4" BSP).

Female Threaded End



Male Threaded End

Poly End

Barrel Union Features

HIGH QUALITY

DURABLE MATERIALS

Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon and Nitrile Rubber O-Ring giving a weather, termite, fungi and bacterial resistance

O-RING SEAL

For a leak proof connection.

PRECISION HEAVY DUTY TAPERED THREADS

Gives a Strong Reliable Seal. Material is strong enough to minimise potential cross threading.

STRONG COMPACT DESIGN

The compact design of the Hansen Quick Connect Barrel Union makes it especially suited to tight spaces where there is very little room for movement when connecting and disconnecting pump or pipe.

POTABLE WATER APPROVED

Materials approved for use with Potable (drinkable) Water
AS/NZS 4020

PUMP TO PIPE

1. Disconnect current pipe from pump by unwinding the Common Centre Nut

2. Connect the new pipe to pump by winding the Common Centre Nut onto the matching male thread

PIPE TO PIPE

1. Disconnect current pipe by unwinding the Common Centre Nut

2. Connect new pipe to pipe by winding the Common Centre Nut onto the matching male thread

EASY TO USE

As with all Hansen fittings, simplicity & ease of use remain at the core of the Hansen Quick Connect Barrel Union.

EASY SLIP DOWN ACTION

The easy slip down action makes uninstalling pumps & pipe work a breeze! When the common nut is wound off, the pipe simply 'slips down' with virtually no extra forward or backward movement required to separate the connection.

Available in Sizes:

15mm, 20mm, 25mm, 32mm, 40mm, 50mm, 25x20mm, 32x25mm.

HANSEN

Quick Connect Unions

Strong, Compact and Easy to Use Unions

www.hansenproducts.co.nz

10P1691401

Quick Couplings



Best Installed Value

SECTION FIFTEEN

TECHNICAL SPECIFICATIONS



Quick Couplings Features and Benefits

- Manufactured for use with New Zealand Low Density Polyethylene Pipe
- Fits easily onto Hansen *Easy Fit* Pipe Fittings and *True Fit* Threaded Fittings
- Fast and easy to assemble and disconnect – push the pipe onto the fitting and fasten with pipe clip
- Manufactured from UV Stabilised High Quality Glass Fibre Reinforced Nylon giving a weather, termite, fungi and bacterial resistance
- Material Approved for use with Potable (drinkable) Water
- Fittings demonstrate excellent hydraulic flow characteristics
- Flexibility and Versatility - in new and existing installations, saving time and money
- Suitable for many types of fluid
- Low installation costs - no specialist site equipment or skilled labour required
- New Zealand Made

Quick Couplings Working Pressure

The pressure rating for the *Quick Coupling* Pipe Fittings is 16 Bar @ 20 degrees C

Quick Couplings Approvals

Fire Rating UL94HB

See our website for further details.

Quick Couplings Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong		X	
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel			X
Automotive Lubricants			X
Hydraulic Fluids			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents		X	
Hydrocarbons	X		
Halogens			X
Alcohols		X	
Aldehydes			X
Amines			X
Esters			X
Ethers			X
Ketones			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide		X	
Phenols			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

Quick Couplings Frequently Asked Questions

Q What temperature can I use Hansen fittings at?

A Hansen have tested all its products for use with cold water up to a maximum temperature of 60°C (140°F). We do not recommend the use of these products with temperatures higher than 60°C (140°F) as plastic expands due to temperature increases. Hansen cannot guarantee the products will perform when used with temperatures over 60°C (140°F). Hansen products that have failed in temperatures higher than 60°C (140°F) will not be covered by warranty.

Q Can I use Hansen fittings in marine applications?

A Yes. While marine applications vary, Hansen fittings are resistant to sea water. The fittings will not leach any substances that will be harmful to marine life. Hansen fittings have provided excellent service in marine applications for many years without failure. If you require further information, please contact us by email with details regarding your application.

Q Can I use Hansen Quick Couplings with different types of pipe?

A Yes, because it relies on the hose clip to fasten the pipe to the tail.



Fast Fit Tapping Saddles



Best Installed Value

SECTION SIXTEEN

TECHNICAL SPECIFICATIONS



Fast Fit Tapping Saddles
Technical Specifications

Fast Fit Tapping Saddle Features and Benefits



SPIGOT

The spigot helps locate and secure the Hansen Tapping Saddle onto the pipe, reducing loss of seal if the pipe or saddle move under load.



HINGE

The ability to open past 180° degrees makes it an excellent choice for tight spots. The hinge stays connected for a fast, easy one piece installation.



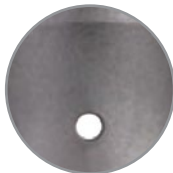
BOLTS

Only one bolt required which is fixed to the body ensuring no lost parts and the common Stainless Steel M8 bolt on all sizes means only one tool is required for installation - a major time saver. Larger sizes can have up to three bolts if preferred.



CUSTOM SEAL

Small spigots on the internal seal that are visible from the outside help locate it correctly and removes any second guessing if the seal has been installed or not.



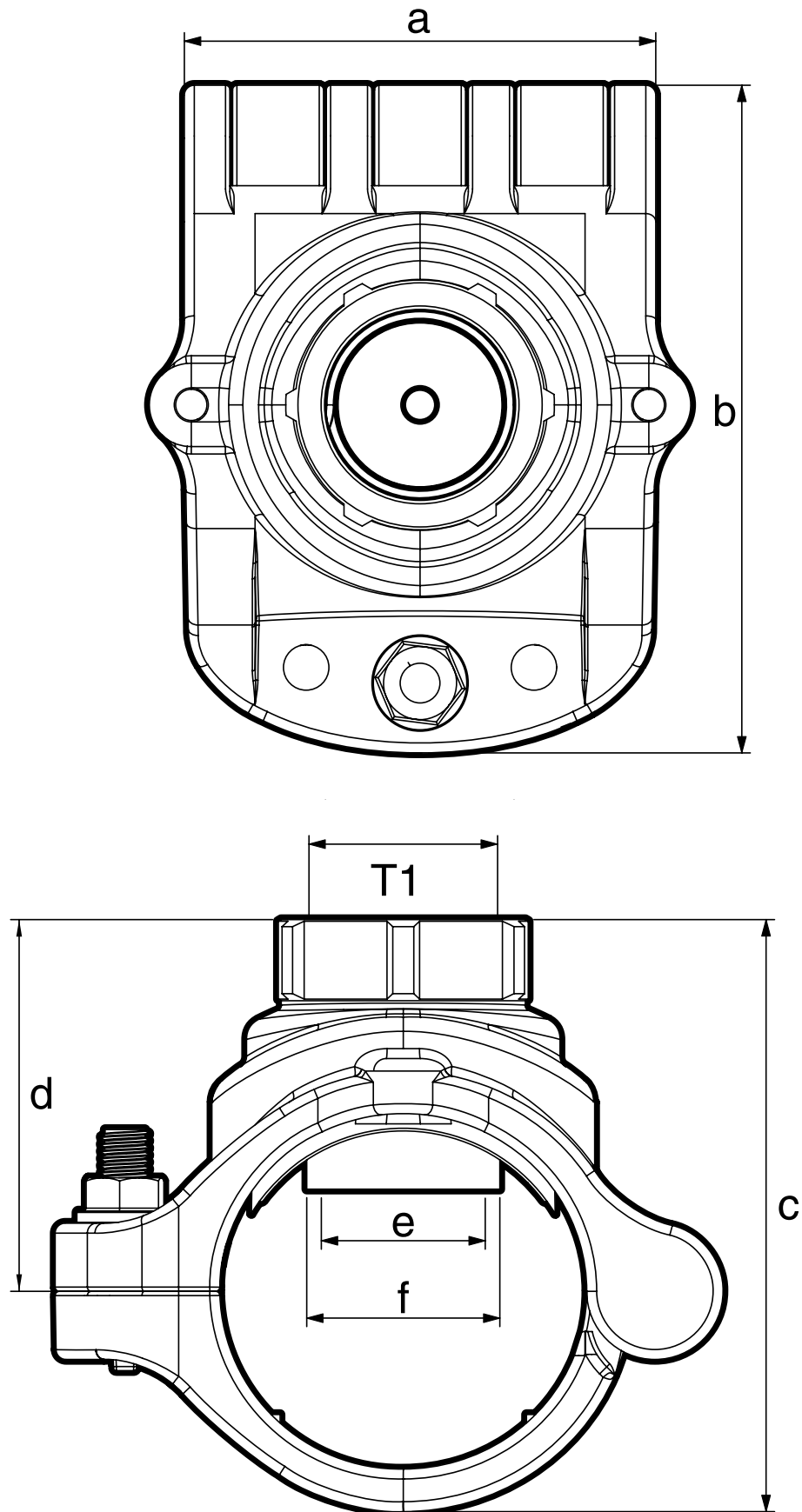
PILOT HOLE

A pilot hole located at the base of each saddle makes installation easy.

- The spigot guarantees correct placement onto the pipe and security of seal
- The hinge opens past 180° allowing fast and easy installation in any situation
- The hinge allows the saddle to remain as one piece which prevents loss of parts
- The custom seal with spigots guarantees correct seal placement, a visible check of correct installation
- The bolt fixed to the body ensuring quick, easy installation and no lost parts with extra bolt holes on the larger sized saddles for peace of mind
- M8 Stainless Steel bolt on all sizes means only one tool required
- The pilot hole in the base ensures correct hole placement
- Compact design, manufactured from strong, non-corrosive UV stabilised materials for a long life
- Packaging has all the information required for ease of purchase i.e. pipe size & type, thread DN, hole saw size etc

Fast-Fit Tapping Saddle Pressure Rating is 16 Bar @ 20 degrees C.

Fast Fit Tapping Saddle Dimensions



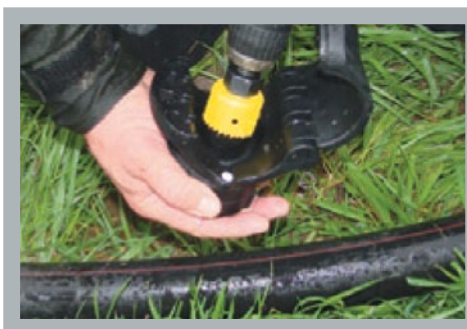
Fast Fit Tapping Saddle Dimensions

Product Code	Saddle	Pipe	T1 BSPT (DN*)	a mm	b mm	c mm	d mm	e mm	f mm	Recom- mended Spigot Hole Size
HTSMD6350	63 x 50	MD	50mm (2")	83	118	117	78	29	34	35
HTSMD6340	63 x 40	MD	40mm (1 1/2")	83	118	111	72	29	34	35
HTSMD6362	63 x 32	MD	32mm (1 1/4")	83	118	108	69	29	34	35
HTSMD6325	63 x 25	MD	25mm (1")	83	118	104	65	29	34	35
HTSMD6320	63 x 20	MD	20mm (3/4")	83	118	102	63	29	34	35
HTSLD5050	50 x 50	LD/Enduroflex/ Rural B	50mm (2")	83	113	110	75	29	34	35
HTSLD5040	50 x 40	LD/Enduroflex/ Rural B	40mm (1 1/2")	83	113	104	69	29	34	35
HTSLD5032	50 x 32	LD/Enduroflex/ Rural B	32mm (1 1/4")	83	113	102	67	29	34	35
HTSLD5025	50 x 25	LD/Enduroflex/ Rural B	25mm (1")	83	113	98	63	29	34	35
HTSMD5040	50 x 40	MD	40mm (1 1/2")	68	100	97	66	21	26	28
HTSMD5032	50 x 32	MD	32mm (1 1/4")	68	100	95	64	21	26	28
HTSMD5025	50 x 25	MD	25mm (1")	68	100	91	60	21	26	28
HTSLD4040	40 x 40	LD/Enduroflex/ Rural B	40mm (1 1/2")	68	96	90	63	21	26	28
HTSLD4032	40 x 32	LD/Enduroflex/ Rural B	32mm (1 1/4")	68	96	88	61	21	26	28
HTSLD4025	40 x 25	LD/Enduroflex/ Rural B	25mm (1")	68	96	84	57	21	26	28
HTSMD4032	40 x 32	MD	32mm (1 1/4")	61	88	85	60	16	21	22
HTSMD4025	40 x 25	MD	25mm (1")	61	88	81	56	16	21	22
HTSLD3232	32 x 32	LD	32mm (1 1/4")	61	86	83	59	16	21	22
HTSLD3225	32 x 25	LD	25mm (1")	61	86	78	54	16	21	22
HTSRB3232	32 x 32	Enduroflex/ Rural B	32mm (1 1/4")	61	86	81	58	16	21	22
HTSRB3225	32 x 25	Enduroflex/ Rural B	25mm (1")	61	86	76	53	16	21	22
HTSMD3225	32 x 25	MD	25mm (1")	50	78	71	51	13	18	19
HTSLD2525	25 x 25	LD	25mm (1")	50	78	71	51	13	18	19
HTSRB2525	25 x 25	Enduroflex/ Rural B	25mm (1")	50	78	67	48	13	18	19

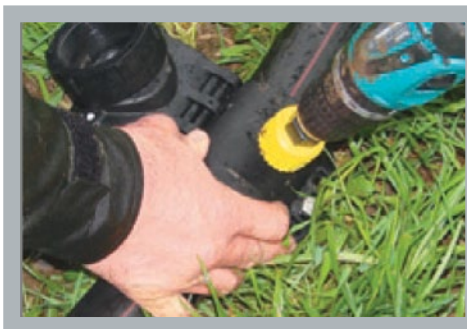
The Tapping Saddles in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia and other countries, including NZ patent application 595727 and registered design 412373, Australian patent application 2010202392 and registered design 329136 and European Community registered design 1182489. HANSEN is a trade mark of the Hansen group of companies.

Specifications and sizes may change without prior notice

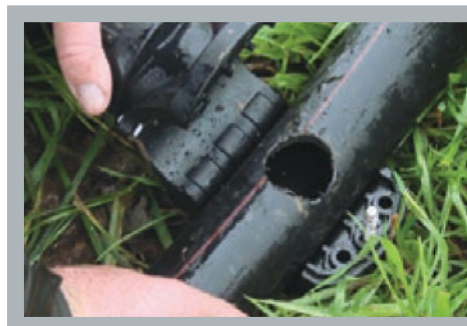
Fast Fit Tapping Saddle Installation Instructions



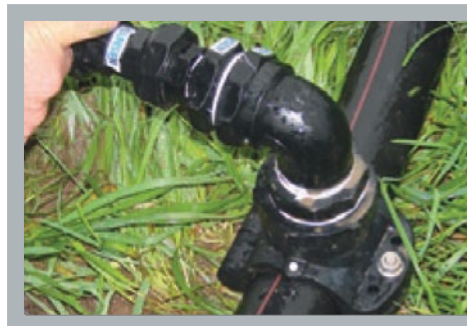
1. Select a hole saw to fit between the min. and max. as marked on the saddle body of your Hansen *Fast Fit* Tapping Saddle.



2. Use the pilot hole located on the base of the Hansen *Fast Fit* Tapping Saddle as a guide to start drilling, then remove the Hansen *Fast Fit* Tapping Saddle and complete the drilling. Clean off the burrs from the pipe.



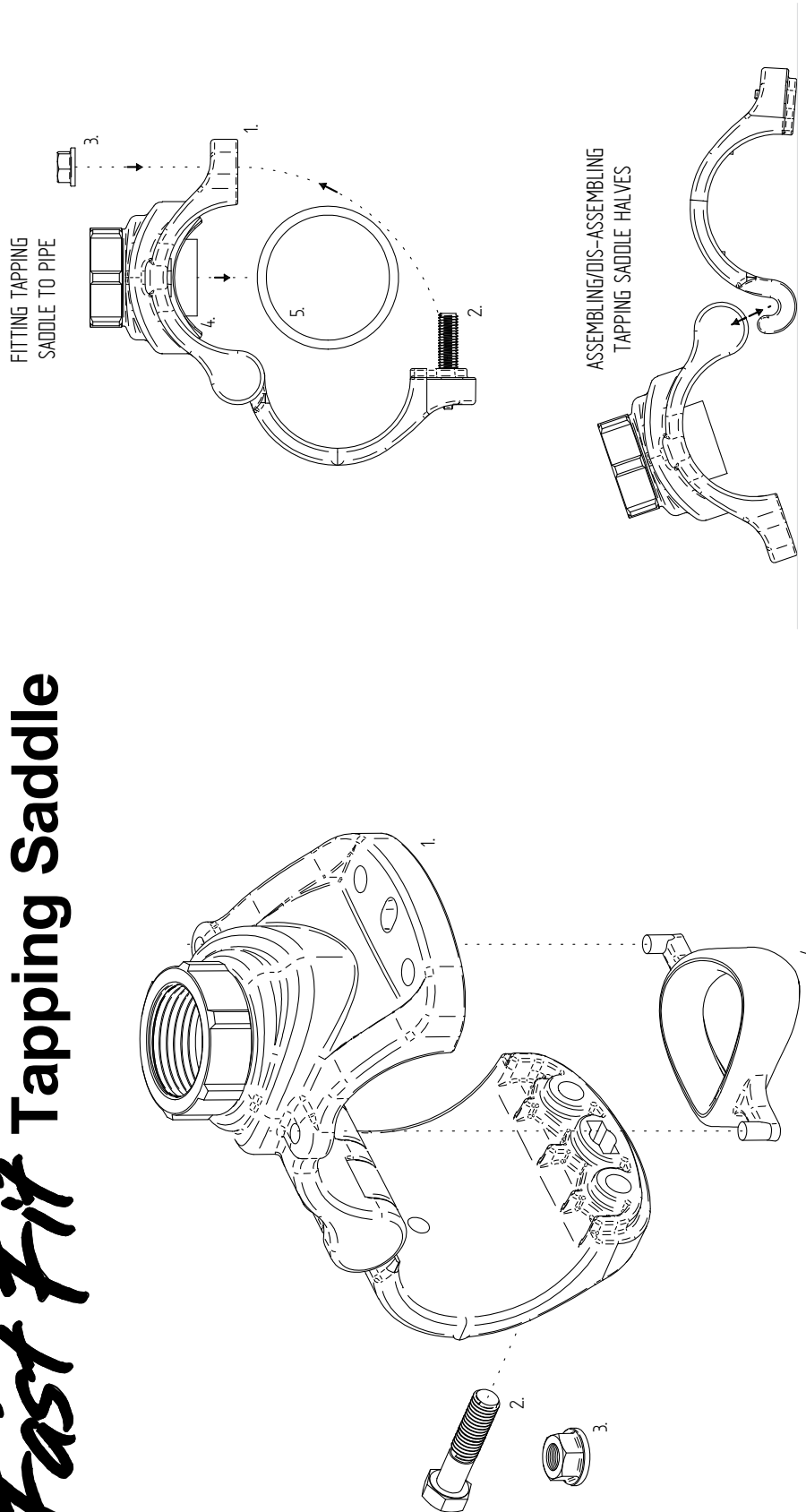
3. Ensure the internal seal is installed. Use the small white spigots to help locate it correctly. Place the Hansen *Fast Fit* Tapping Saddle around the pipe using the saddle spigot to help locate it in the drilled hole. Tighten bolt.



4. When adding additional fittings it is recommended that either a thread sealing paste or thread sealing tape be used on all threaded connections. We recommend LOCTITE 5331.

Fast Fit Tapping Saddle

Email: info@hansenproducts.com
Website: www.hansenproducts.com



Hansen Tapping Saddle		
No.	Product Code	Item Name
1	HTSLD/MD/RB	Hansen Tapping Saddle
2	-	Stainless Steel M8 Bolt
3	-	Stainless Steel Flange Nut
4	HTSSEAL	Hansen Tapping Saddle Seal
5	-	Pipe

Fast-Fit Tapping Saddle Frequently Asked Questions

Q Often it is hard to know if the seal is in place or if the saddle has moved on the pipe making it impossible to seal. Will the Hansen *Fast Fit* Tapping Saddle fix this problem?

A The Hansen *Fast Fit* Tapping Saddle covers this in two ways, firstly the spigot stops the possibility of the saddle moving past the hole in the pipe and secondly with the easy to view custom seal spigots you can see at a glance that the seal is in place.

Q The biggest problem installing saddles is losing parts when working in a trench, especially without much room to move, will the Hansen *Fast Fit* Tapping Saddle fix this problem?

A Yes because the Hansen *Fast Fit* Tapping Saddle has a hinge and the bolt is fixed, which means you only need two hands to install the Hansen *Fast Fit* Tapping Saddle.

Q Is one bolt enough to hold the Hansen *Fast Fit* Tapping Saddle securely?

A Yes, under normal circumstances one bolt is sufficient but in the larger sized saddles there is an additional two holes you can bolt for peace of mind.

Q What sized hole saw will I need to use when installing the Hansen *Fast Fit* Tapping Saddle?

A The hole saw size information is marked on the Hansen *Fast Fit* Tapping Saddle body. One easy way to check the size is to test that the hole saw fits over the spigot but inside the seal area.

Q Will the hinge allow the Hansen *Fast Fit* Tapping Saddle to open wide enough to place around the pipe when working in confined spaces?

A Yes you will find the Hansen *Fast Fit* Tapping Saddle easy to install in confined spaces because the hinge opens past 180° without losing the hinged connection.

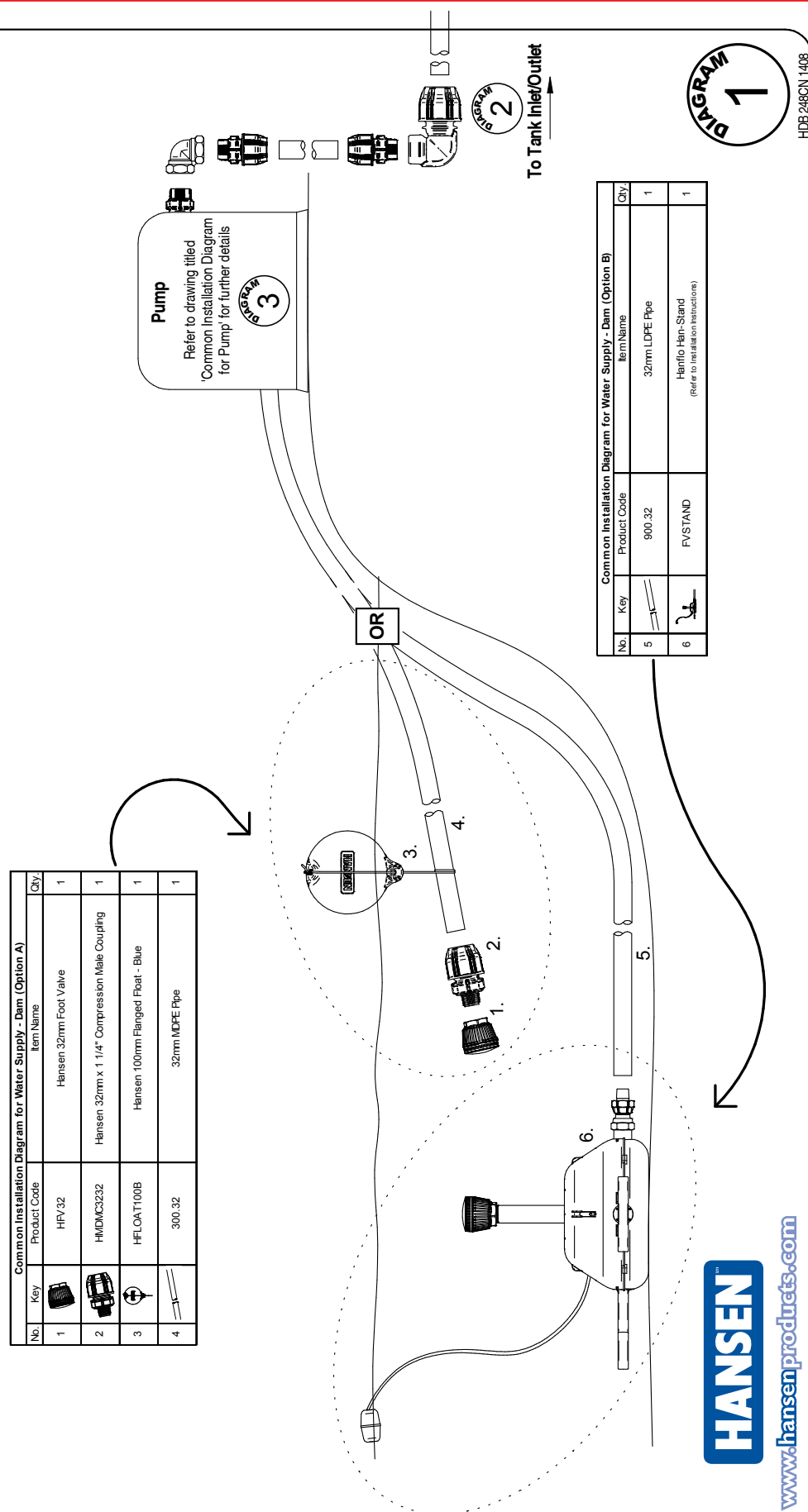


Best Installed Value










SECTION SEVENTEEN

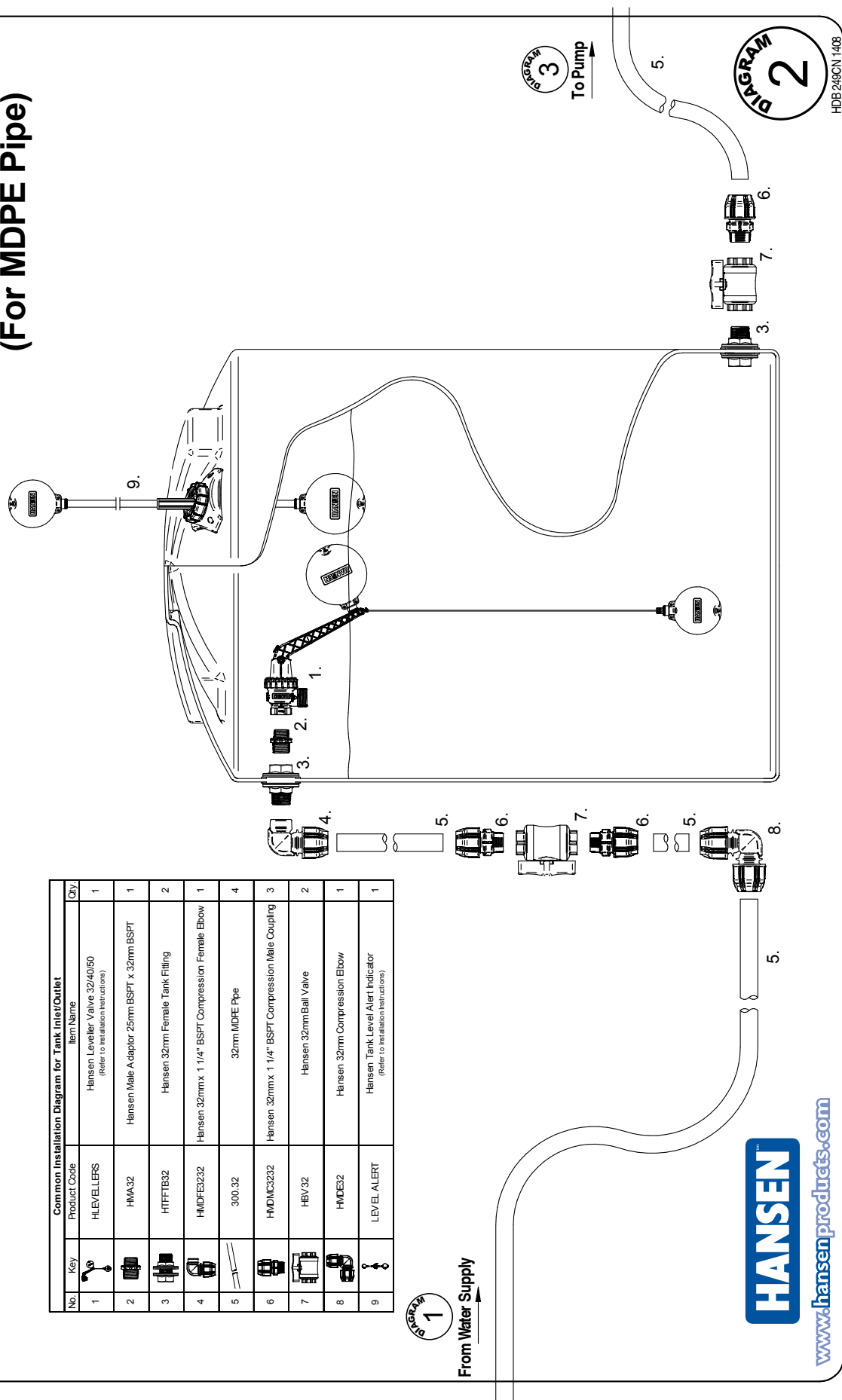
INSTALLATION DRAWINGS

Common Installation Diagram for Water Supply - Dam (For MDPE Pipe)



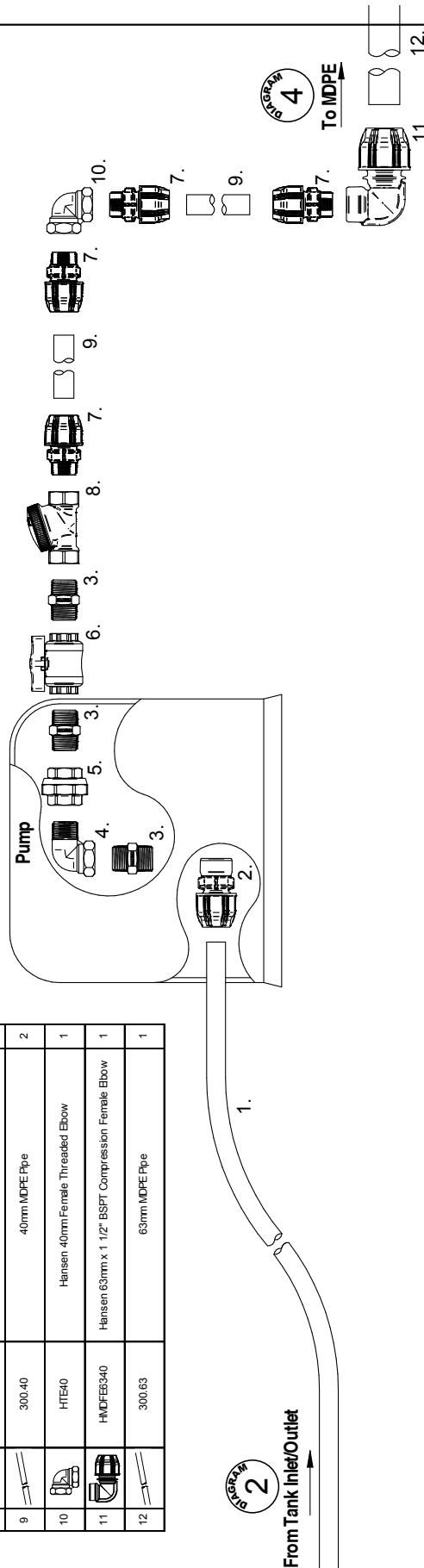
Common Installation Diagram for Tank Inlet/Outlet (For MDPE Pipe)

Common Installation Diagram for Tank Inlet/Outlet				
No.	Key	Product Code	Item Name	Qty.
1		HLEVELLERS	Hansen Leveler Valve 32/40/50 (Refer to installation instructions)	1
2		HMA32	Hansen Male Adaptor 25mm BSPT x 32mm BSPT	1
3		HTFTB32	Hansen 32mm Female Tank Fitting	2
4		HMD3232	Hansen 32mm x 1 1/4" BSPT Compression Female Elbow	1
5		300.32	32mm MDPE Pipe	4
6		HMDM3232	Hansen 32mm x 1 1/4" BSPT Compression Male Coupling	3
7		HBV 32	Hansen 32mm Ball Valve	2
8		HMD32	Hansen 32mm Compression Elbow	1
9		LEVEL ALERT	Hansen Tank Level Alert Indicator (Refer to installation instructions)	1










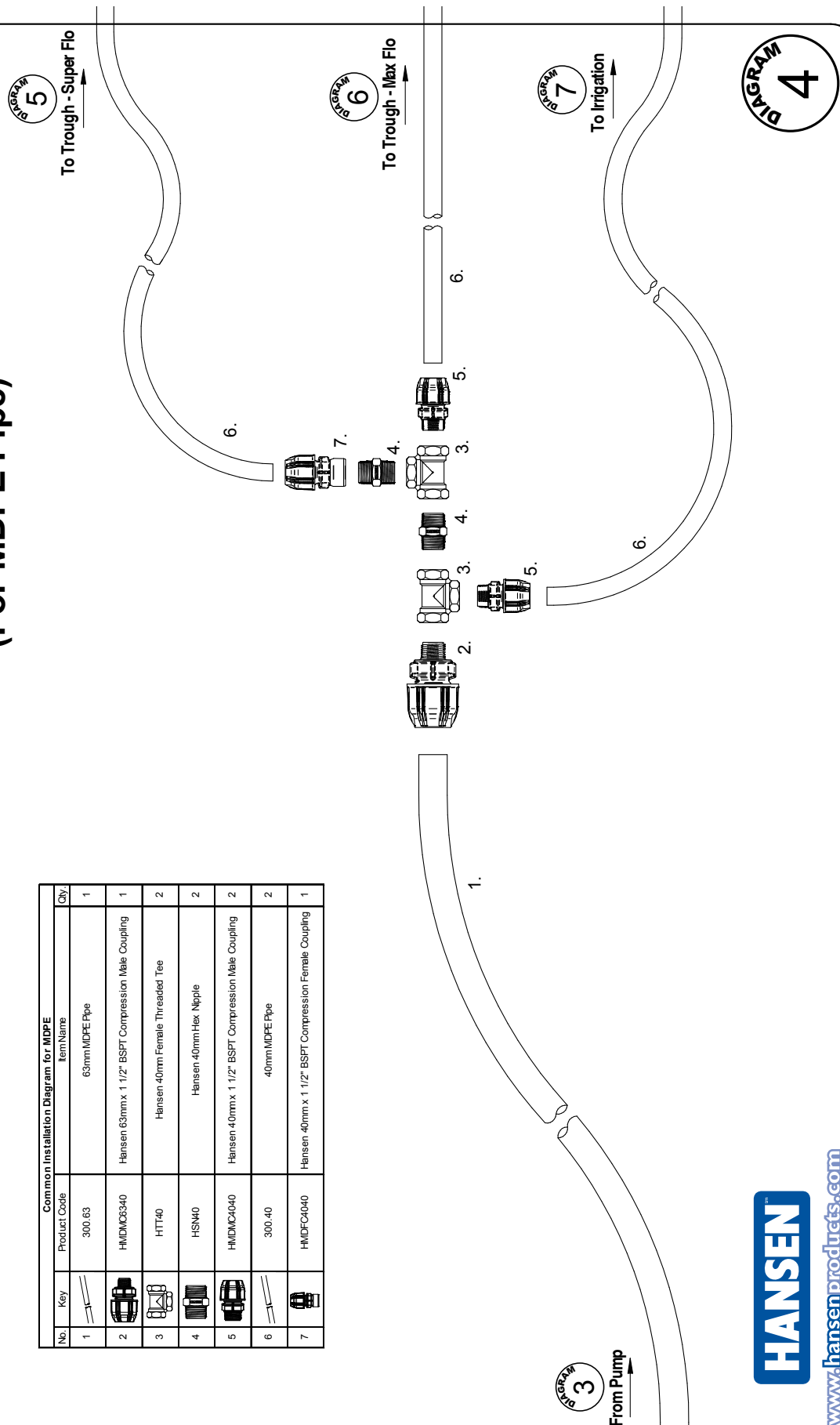
Common Installation Diagram for Pump (For MDPE Pipe)

Common Installation Diagram for Pump			
No.	Key	Product Code Item Name	Qty
1		300.32 32mm MDPE Pipe	1
2		HMDFC3232 Hansen 32mm x 1 1/4" BSPT Compression Female Coupling	1
3		HSN40 Hansen 40mm Hex Nipple	3
4		HTMFE40 Hansen 40mm Male/Female Threaded Elbow	1
5		HBU40 Hansen 40mm Barrel Union	1
6		HBV40 Hansen 40mm Ball Valve	1
7		HMDMCH040 Hansen 40mm x 1 1/2" BSPT Compression Male Coupling	4
8		HCV40 Hansen 40mm Check Valve	1
9		300.40 40mm MDPE Pipe	2
10		HTE40 Hansen 40mm Female Threaded Elbow	1
11		HMDFE340 Hansen 63mm x 1 1/2" BSPT Compression Female Elbow	1
12		300.63 63mm MDPE Pipe	1



Common Installation Diagram for MDPE (For MDPE Pipe)

Common Installation Diagram for MDPE			
No.	Key	Product Code	Item Name
1		300.63	63mm MDPE Pipe
2		HMDMC3940	Hansen 63mm x 1 1/2" BSPT Compression Male Coupling
3		HTT40	Hansen 40mm Female Threaded Tee
4		HSN40	Hansen 40mm Hex Nipple
5		HMDMC4040	Hansen 40mm x 1 1/2" BSPT Compression Male Coupling
6		300.40	40mm MDPE Pipe
7		HMDFC4040	Hansen 40mm x 1 1/2" BSPT Compression Female Coupling

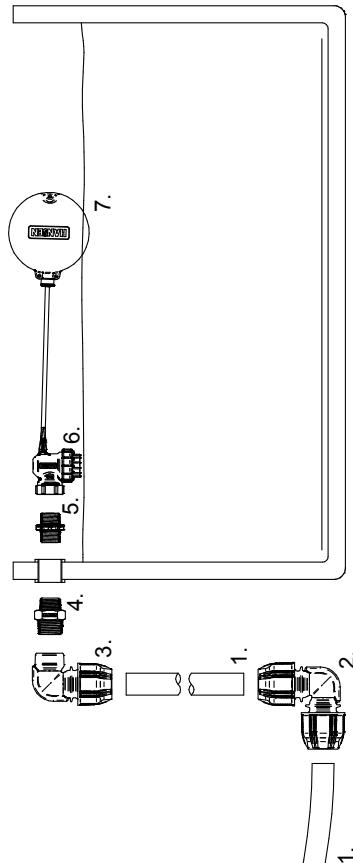


Common Installation Diagram for Trough - Super Flo (For MDPE Pipe)

DIAGRAM
4

From MDPE

No.	Key	Common Installation Diagram for Trough - Super Flo	Item Name	Qty
1		300.40	40mm MDPE Pipe	2
2		HMDIE40	Hansen 40mm Compression Elbow	1
3		HMDFE4032	Hansen 40mm x 1 1/4" BSPT Compression Female Elbow	1
4		HHN8225	Hansen 32mm x 25mm Reducing Hex Nipple	1
5		HMA25	Hansen Male A adaptor 25mm BSPT x 25mm BSPT	1
6		HSFV/2520	Hansen Superflo 25/20 Piston Valve (Refer to installation instructions)	1
7		HFOA T140B	Hansen 140mm Threaded Float - Blue	1








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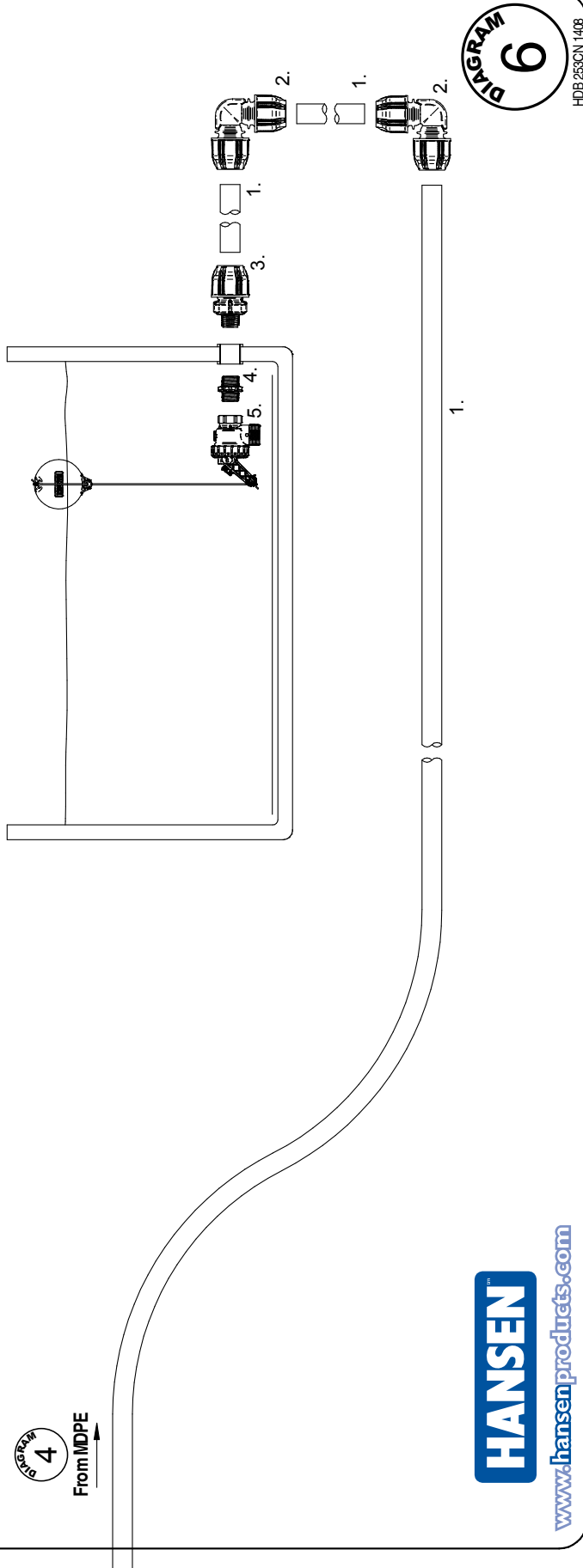
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DIAGRAM
5










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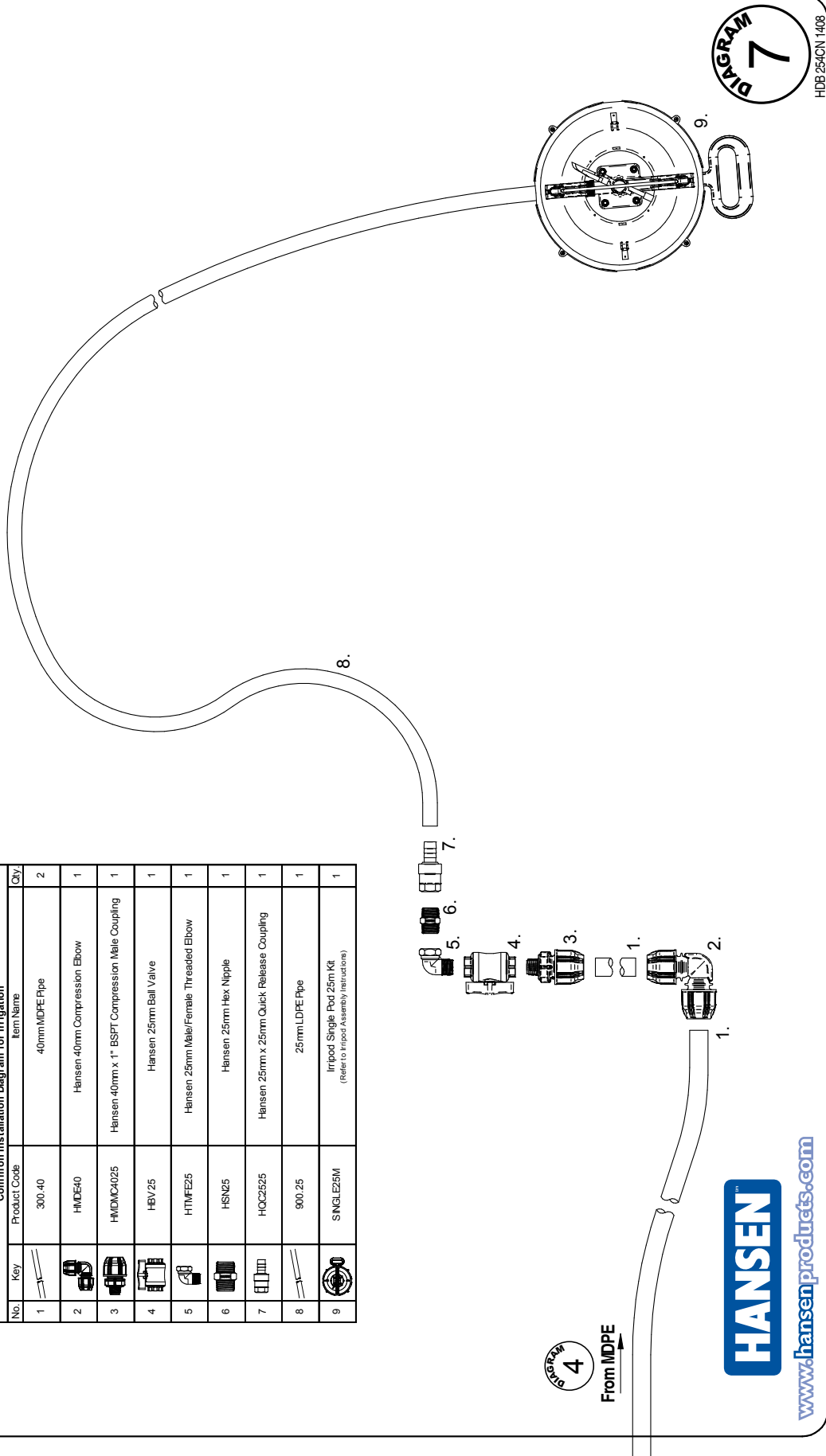
Common Installation Diagram for Trough - Max Flo (For MDPE Pipe)

Common Installation Diagram for Trough - Max Flo				
No.	Key	Product Code	Item Name	Qty.
1		300 40	40mm MDPE Pipe	3
2		HMD40	Hansen 40mm Compression Elbow	2
3		HMDM4025	Hansen 40mm x 1" BSPT Compression Male Coupling	1
4		HMA25	Hansen Male Adaptor 25mm BSPT x 25mm BSPT	1
5		HMFV2520	Hansen Max Flo 25/20 Diaphragm Valve (Refer to installation instructions)	1

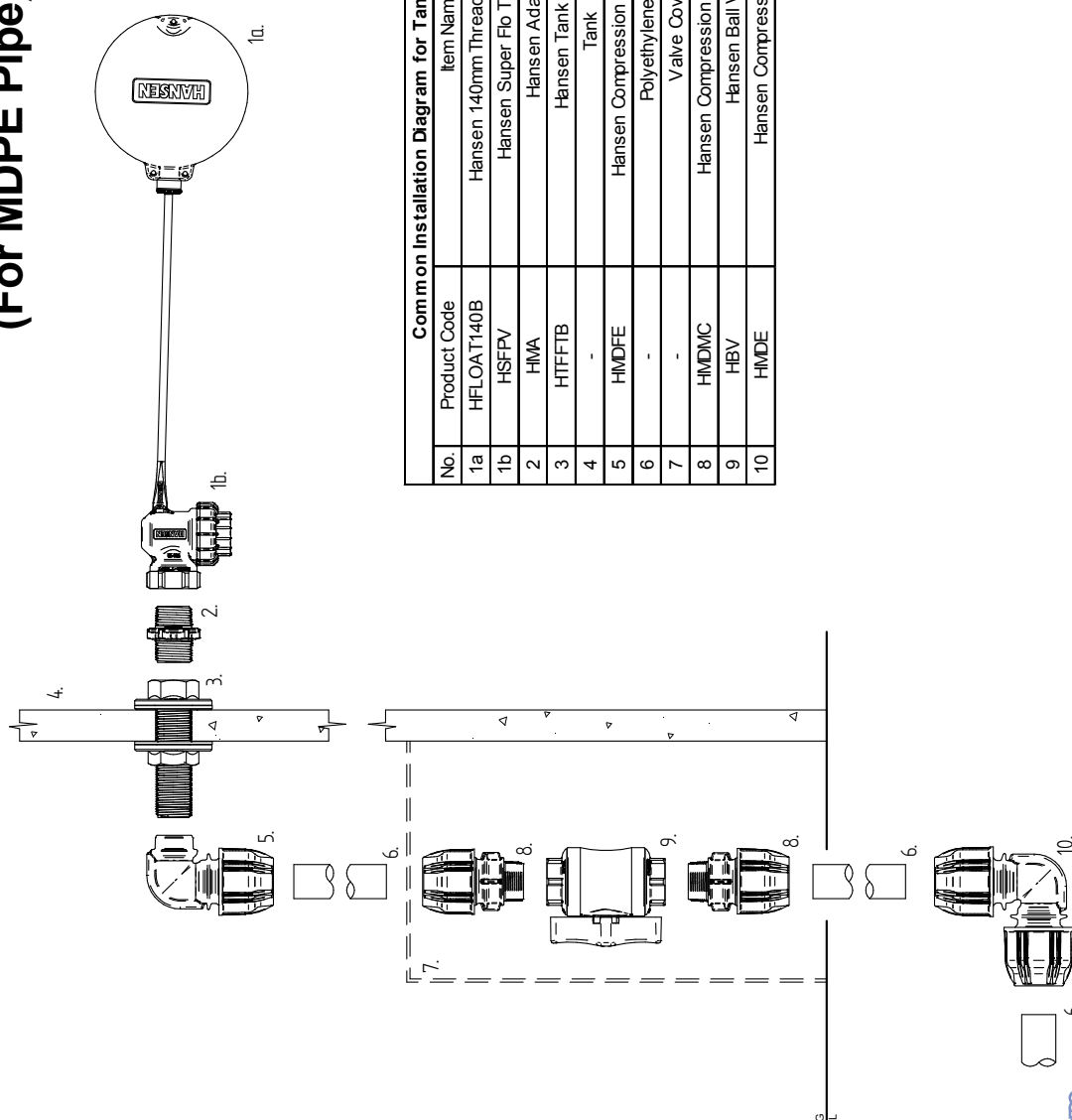


Common Installation Diagram for Irrigation (For MDPE Pipe)

Common Installation Diagram for Irrigation			
No.	Key	Product Code	Item Name
1		300.40	40mm MDPE Pipe
2		HMD40	Hansen 40mm Compression Elbow
3		HMDM4025	Hansen 40mm x 1" BSPT Compression Male Coupling
4		HBV25	Hansen 25mm Ball Valve
5		HTMFE25	Hansen 25mm Male/Female Threaded Elbow
6		HSN25	Hansen 25mm Hex Nipple
7		HQC2525	Hansen 25mm x 25mm Quick Release Coupling
8		900.25	25mm LDPE Pipe
9		SINGLE25M	Irripod Single Pod 25m Kit (Refer to Irripod Assembly Instructions)



Common Installation Diagram for Tank Inlet (For MDPE Pipe)

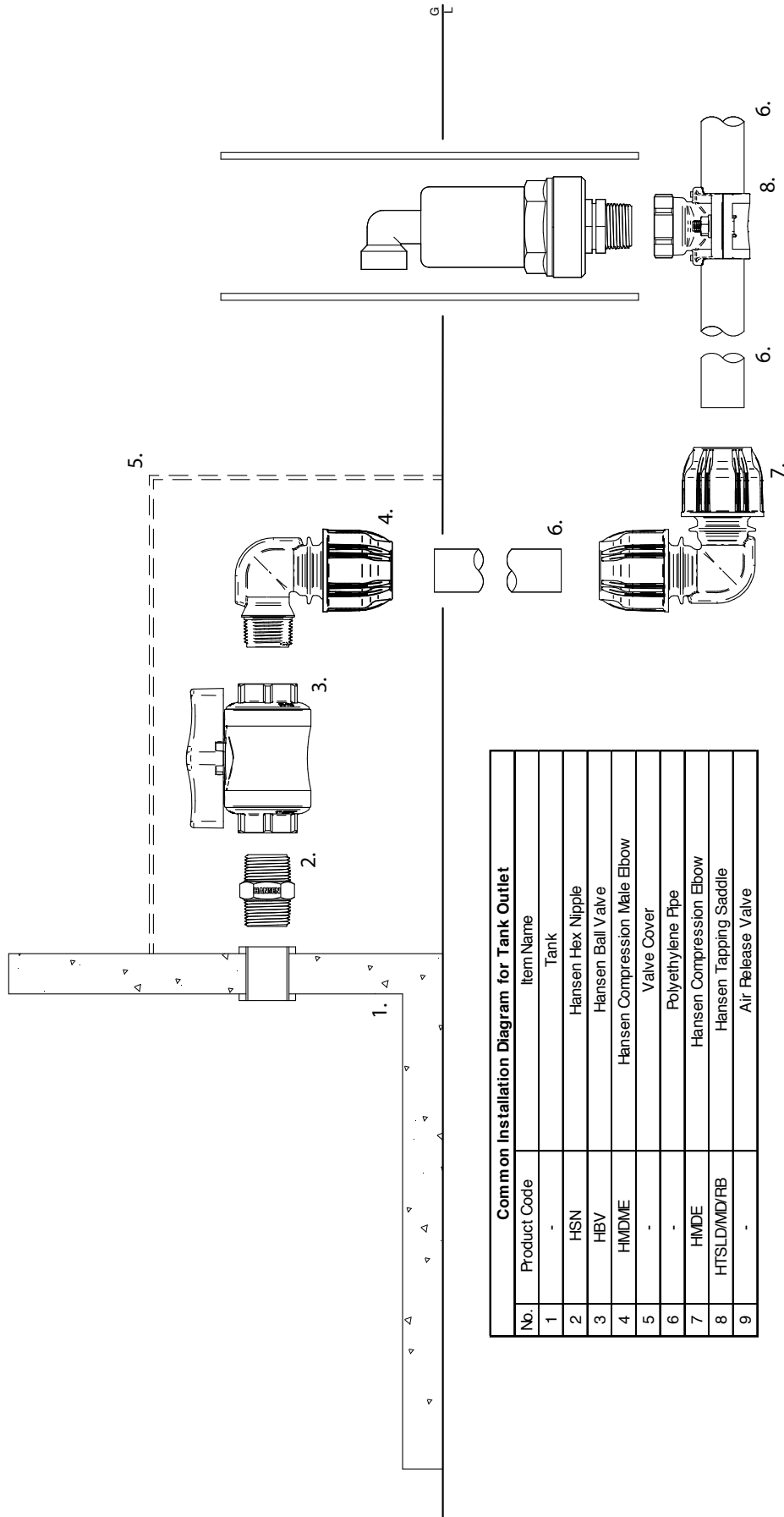


Common Installation Diagram for Tank Inlet

Common Installation Diagram for Tank Inlet		
No.	Product Code	Item Name
1a	HFL0AT140B	Hansen 140mm Threaded Float - Blue
1b	HSPV	Hansen Super Flo Trough Valve
2	HMA	Hansen Adaptor
3	HTFFTB	Hansen Tank Fitting
4	-	Tank
5	HMDFE	Hansen Compression Female Elbow
6	-	Polyethylene Pipe
7	-	Valve Cover
8	HMDMC	Hansen Compression Male Coupling
9	HBV	Hansen Ball Valve
10	HMDE	Hansen Compression Elbow

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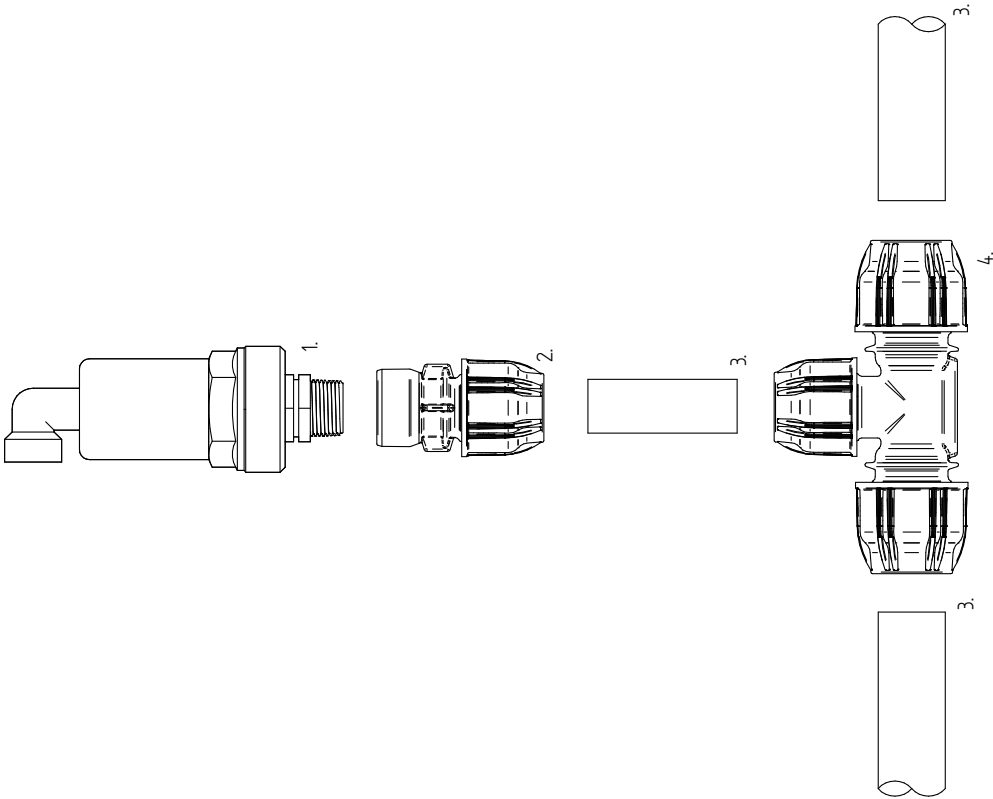
Common Installation Diagram for Tank Outlet (For MDPE Pipe)



Common Installation Diagram for Tank Outlet	
No.	Product Code
1	-
2	HSN
3	HBV
4	HMDME
5	-
6	-
7	HMDE
8	HTSLD/MD/RB
9	-

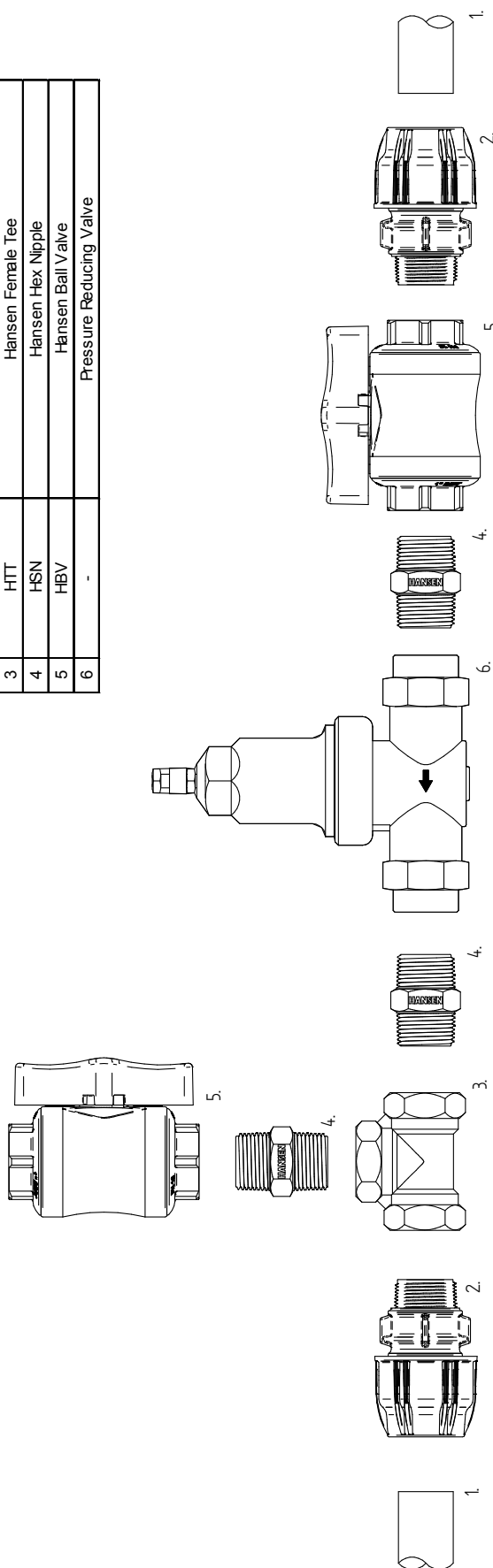
Common Installation Diagram for Air Release Valve (For MDPE Pipe)

Common Installation Diagram for Air Release Valve	
No.	Item Name
1	Air Release Valve
2	Hansen Compression Female Coupling
3	Polyethylene Pipe
4	Hansen Compression Reducing Tee



Common Installation Diagram for Pressure Reducing Valve Valve (For MDPE Pipe)

Common Installation Diagram for Pressure Reducing Valve	
No.	Item Name
1	Polyethylene Pipe
2	Hansen Compression Male Coupling
3	Hansen Female Tee
4	Hansen Hex Nipple
5	Hansen Ball Valve
6	Pressure Reducing Valve

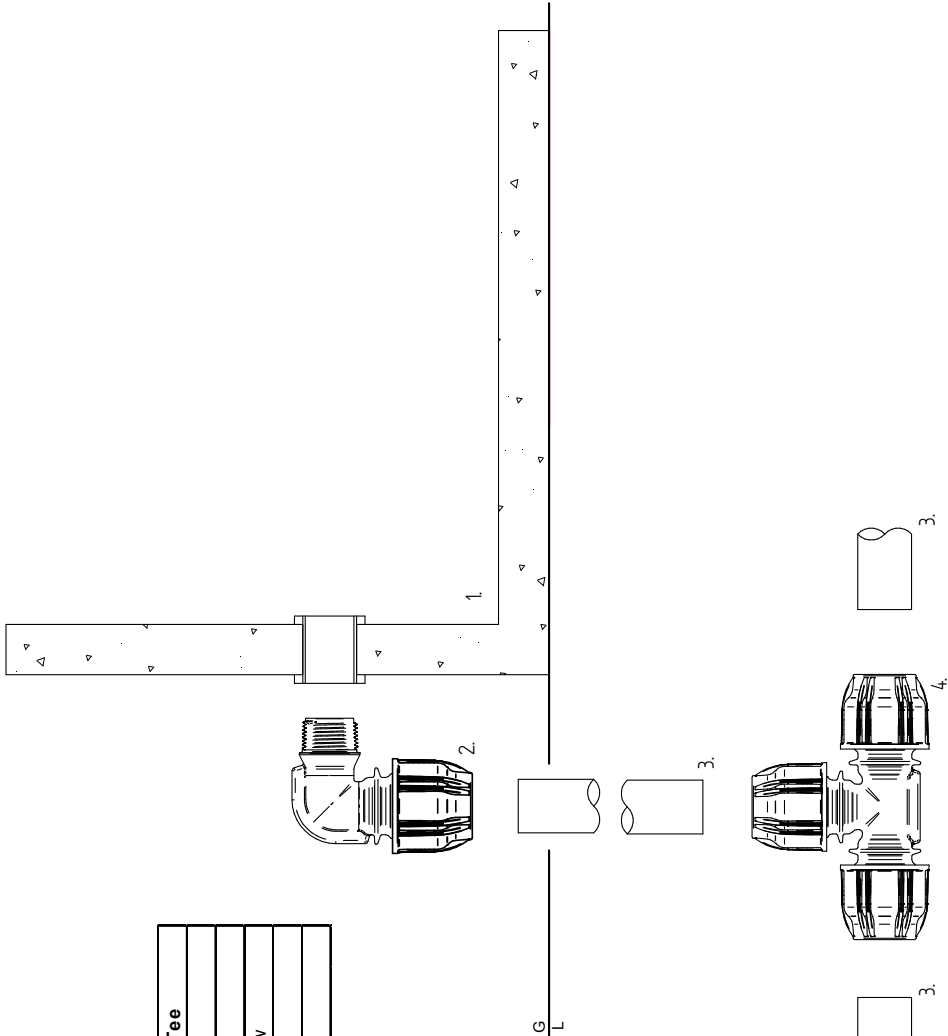


Common Installation Diagram for Trough Side Entry - Tee

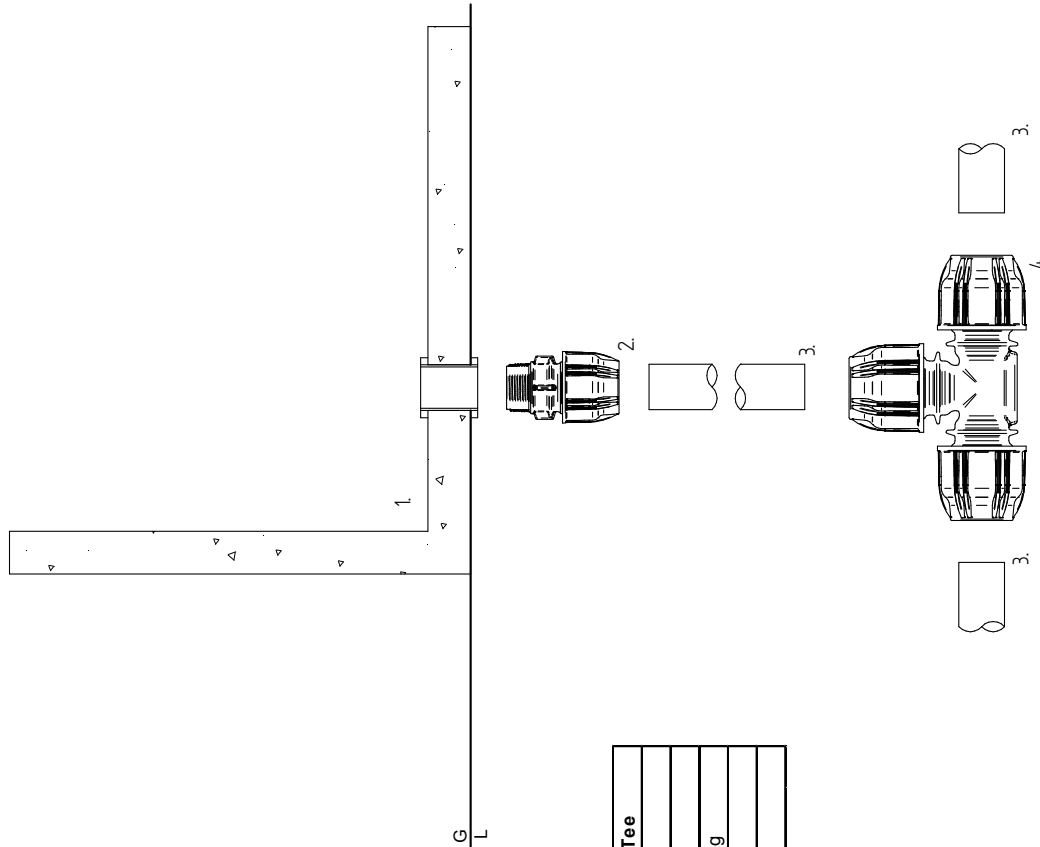
Entry - Tee

(For MDPE Pipe)

Common Installation Diagram for Trough Side Entry - Tee		
No.	Product Code	Item Name
1	-	Side Entry Trough
2	HMDME	Hansen Compression Male Elbow
3	-	Polyethylene Pipe
4	HMDT	Hansen Compression Tee



Common Installation Diagram for Trough Bottom Entry - Tee (For MDPE Pipe)



Common Installation Diagram for Trough Bottom Entry - Tee	
No.	Item Name
1	Bottom Entry Trough
2	Hansen Compression Male Coupling
3	Polyethylene Pipe
4	Hansen Compression Tee

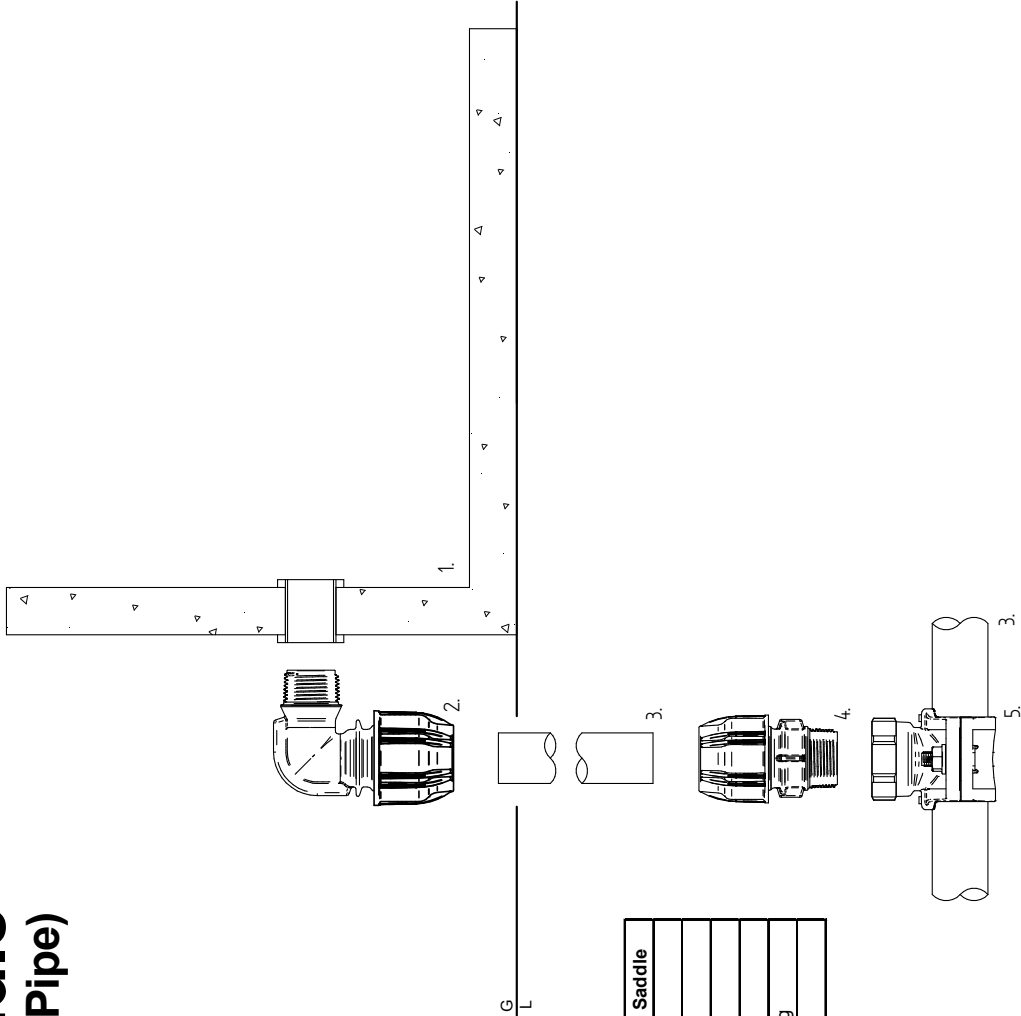
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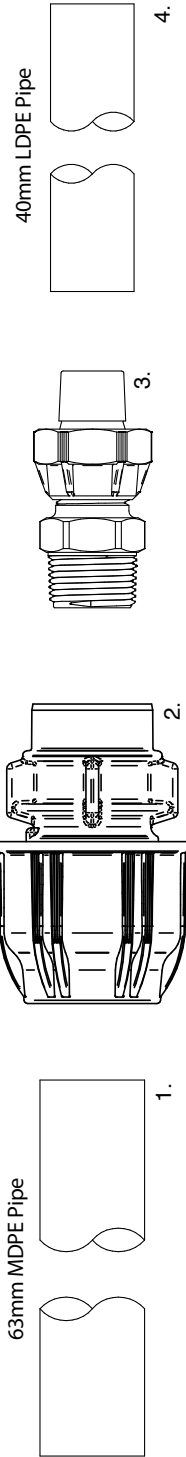
Common Installation Diagram for Trough Side Entry - Tapping Saddle




(For MDPE Pipe)







Common Installation Diagram for Trough Side Entry - Tapping Saddle	
No.	Item Name
1	Side Entry Trough
2	Hansen Compression Male Elbow
3	Polyethylene Pipe
4	Hansen Compression Male Coupling
5	Hansen Tapping Saddle

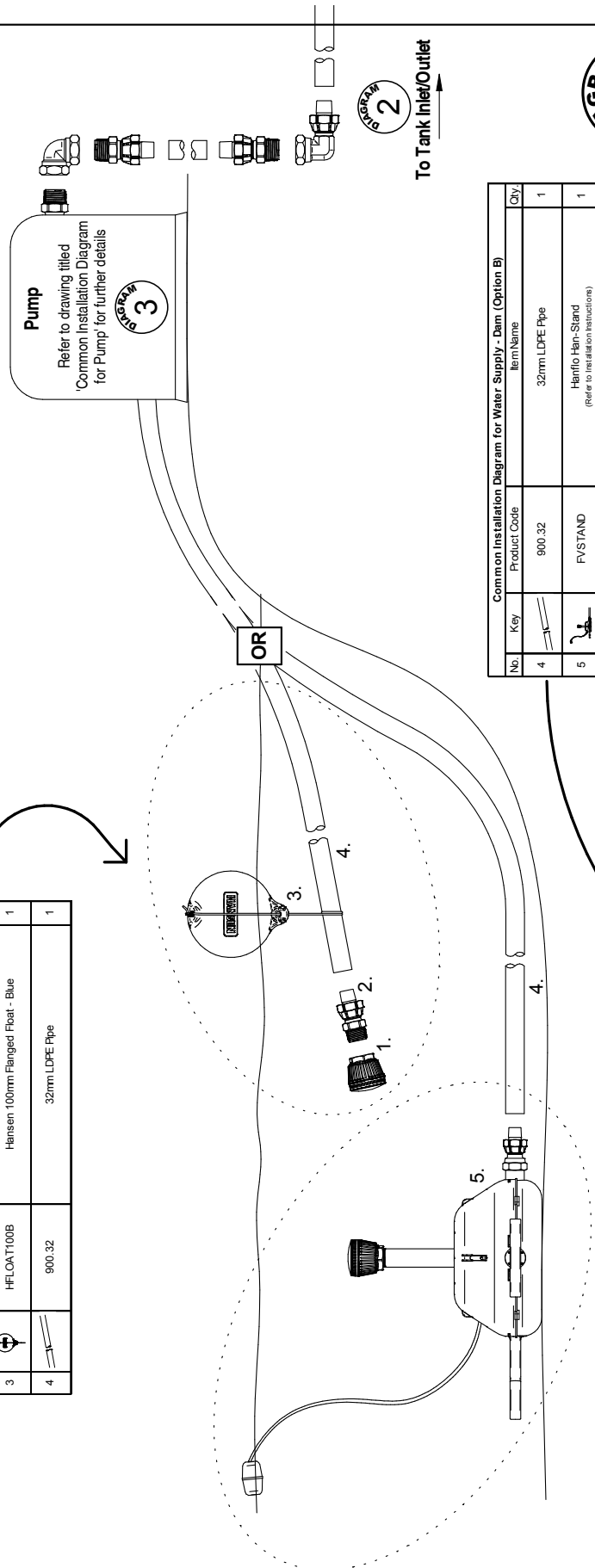
Common Conversion Diagram for MDPE to LDPE



Common Conversion Diagram for MDPE to LDPE				
No.	Key	Product Code	Item Name	Qty.
1		300.63	63mm MDPE Pipe	1
2		HMDFO3340	Hansen 63mm x 1 1/2" BSPT Compression Female Coupling	1
3		HMS40	Hansen 40mm Male Straight Coupling	1
4		900.40	40mm LDPE Pipe	1

Common Installation Diagram for Water Supply - Dam (For LDPE Pipe)

Common Installation Diagram for Water Supply - Dam (Option A)			
No.	Key	Product Code	Item Name
1		HFV 32	Hansen 32mm Foot Valve
2		HMS32	Hansen 32mm Male Straight Coupling
3		HFLOAT100B	Hansen 100mm Flanged Float - Blue
4		900.32	32mm LDPE Pipe



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Common Installation Diagram for Tank Inlet/Outlet (For LDPE Pipe)

No.	Key	Product Code	Item Name	Qty.
1		HLEVLERS	Hansen Leveler Valve 32/40/50 (Refer to installation instructions)	1
2		HMA32	Hansen Male A adaptor 25mm BSPT x 32mm BSPT	1
3		HTFTB32	Hansen 32mm Female Tank Filling	2
4		HFB32	Hansen 32mm Female Bend	1
5		900.32	32mm LDPE Pipe	4
6		HMS32	Hansen 32mm Male Straight Coupling	3
7		HBV 32	Hansen 32mm Ball Valve	2
8		HB32	Hansen 32mm Bend	1
9		LEVEL ALERT	Hansen Tank Level Alert Indicator (Refer to installation instructions)	1

1
DIAGRAM

From Water Supply

3
DIAGRAM

To Pump

2
DIAGRAM

HDE 249N 1408

Common Installation Diagram for Pump (For LDPE Pipe)

No.	Key	Product Code	Common Installation Diagram for Pump Item Name	Qty.
1		900.32	32mm LDPE Pipe	1
2		HFS32	Hansen 32mm Female Straight Coupling	1
3		HSN40	Hansen 40mm Hex Nipple	3
4		HTWFE40	Hansen 40mm Male/Female Threaded Elbow	1
5		HBU40	Hansen 40mm Barrel Union	1
6		HBV40	Hansen 40mm Ball Valve	1
7		HMS40	Hansen 40mm Male Straight Coupling	4
8		HCV40	Hansen 40mm Check Valve	1
9		900.40	40mm LDPE Pipe	2
10		HTE40	Hansen 40mm Female Threaded Elbow	1
11		HWDPE340	Hansen 63mm x 1 1/2" BSPT Compression Female Elbow	1
12		300.63	63mm MDPE Pipe	1

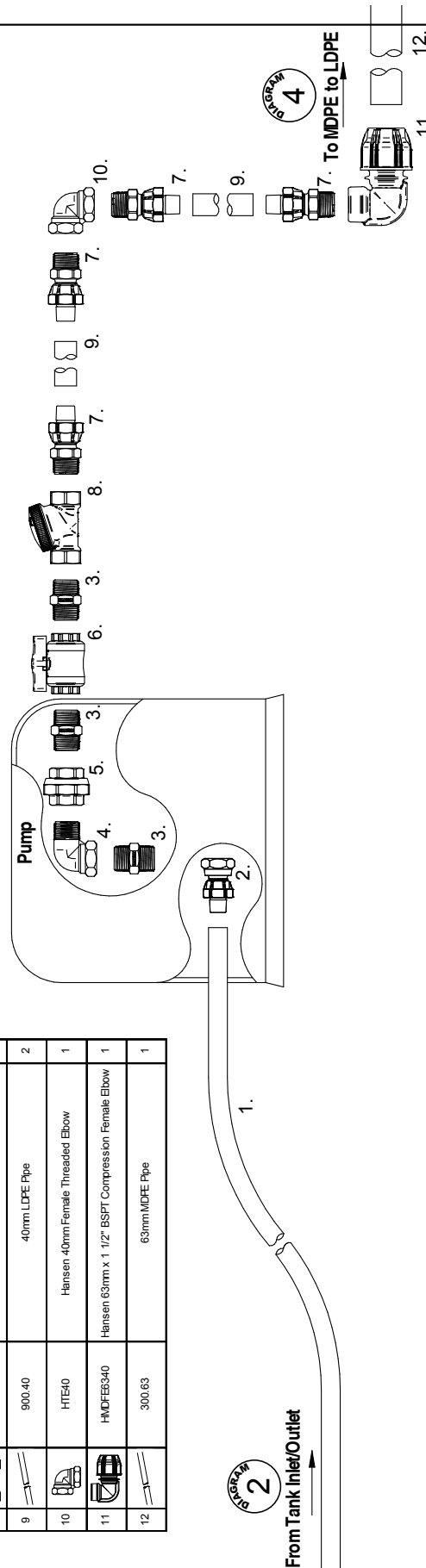


DIAGRAM 2

From Tank Inlet/Outlet

DIAGRAM 4

To MDPE to LDPE









DIAGRAM 3

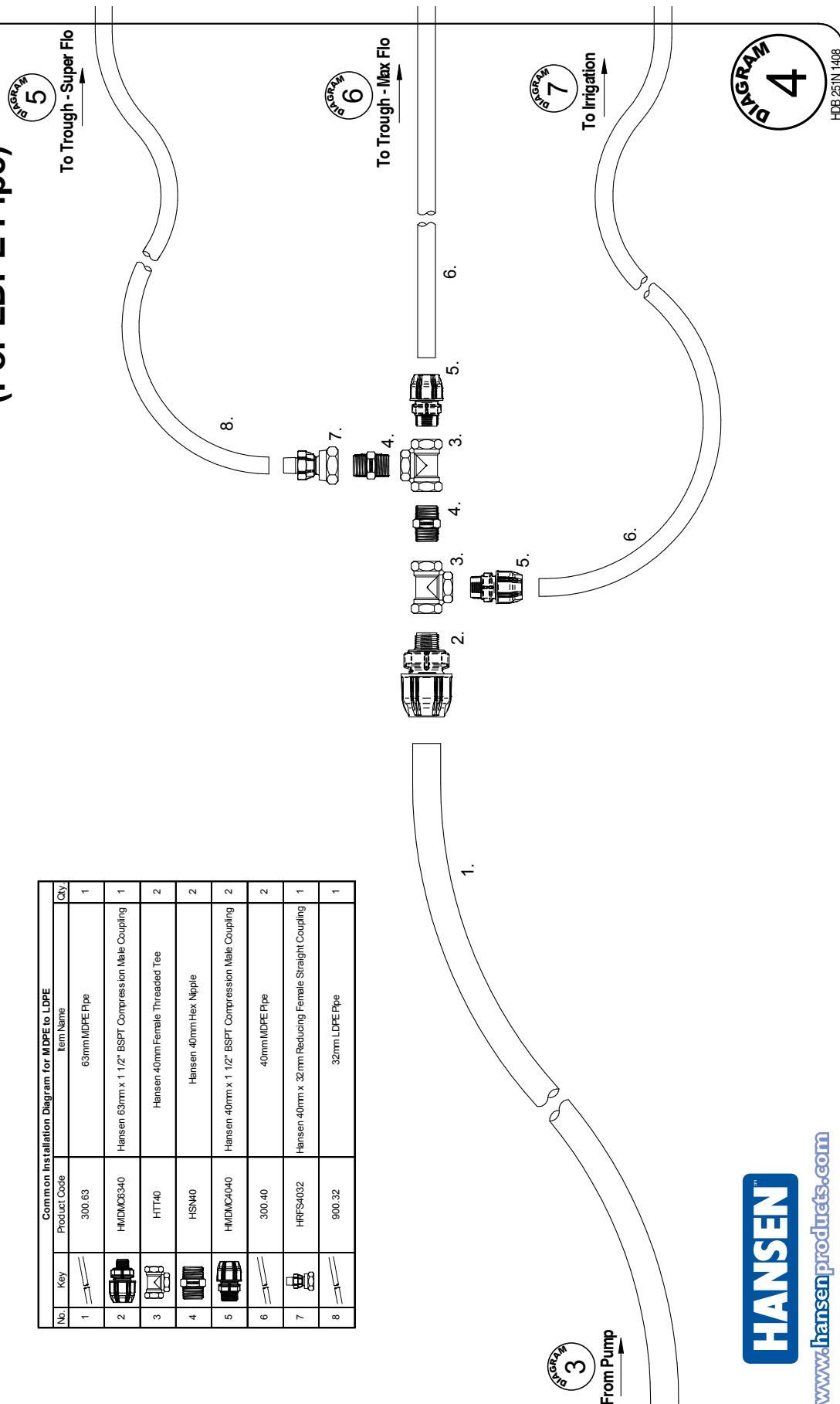
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Common Installation Diagram for MDPE to LDPE (For LDPE Pipe)








Common Installation Diagram for MDPE to LDPE			
No.	Key	Product Code	Item Name
1		300.63	63mm MDPE Pipe
2		HMDMC3940	Hansen 63mm x 1 1/2 inch BSPT Compression Male Coupling
3		HTT40	Hansen 40mm Female Threaded Tee
4		HSN40	Hansen 40mm Hex Nipple
5		HMDMC4040	Hansen 40mm x 1 1/2 inch BSPT Compression Male Coupling
6		300.40	40mm MDPE Pipe
7		HRFS4032	Hansen 40mm x 32mm Reducing Female Straight Coupling
8		900.32	32mm LDPE Pipe

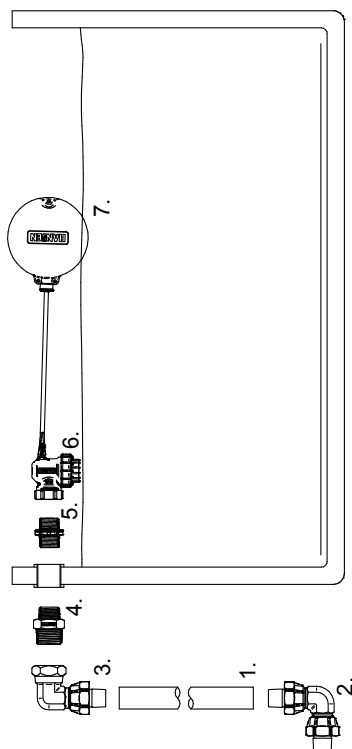


Common Installation Diagram for Trough - Super Flo (For LDPE Pipe)



From MDPE to LDPE

Common Installation Diagram for Trough - Super Flo				
No.	Key	Product Code	Item Name	Qty.
1		900.32	32mm LDPE Pipe	2
2		HB32	Hansen 32mm Bend	1
3		HFB32	Hansen 32mm Female Bend	1
4		HRINR225	Hansen 32mm x 25mm Reducing Hex Nipple	1
5		HMA25	Hansen Male Adaptor 25mm BSPT x 25mm BSPT	1
6		HSFPV/2520	Hansen Superflo 25/20 Piston Valve (Refer to installation instructions)	1
7		HFLOAT140B	Hansen 140mm Threaded Float - Blue	1



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Common Installation Diagram for Trough - Max Flo (For LDPE Pipe)






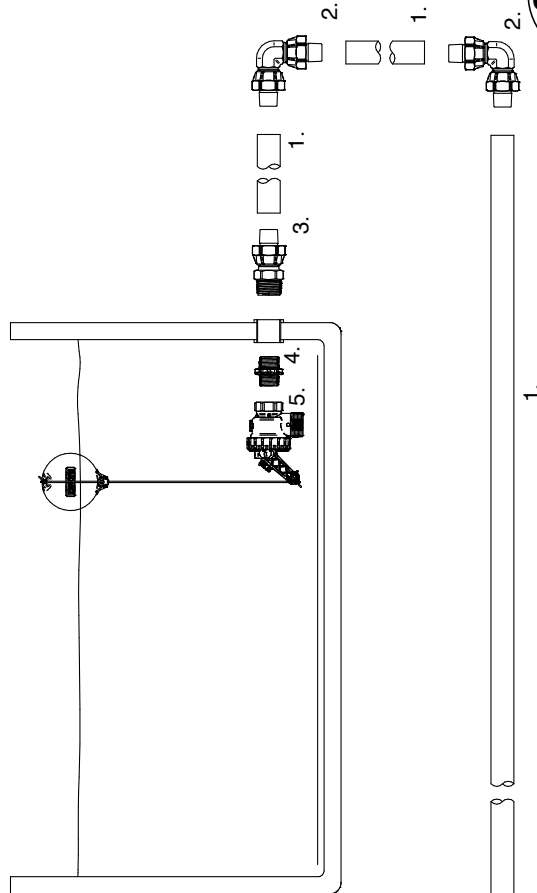
Common Installation Diagram for Trough - Max Flo				
No.	Key	Product Code	Item Name	Qty
1		900-32	32mm LDPE Pipe	3
2		HB32	Hansen 32mm Bend	2
3		HMS32	Hansen 32mm Male Straight Coupling	1
4		HMA25	Hansen Male Adaptor 25mm BSPT x 25mm BSPT	1
5		HMF25/20	Hansen MaxFlo 25/20 Diaphragm Valve (Refer to installation instructions)	1

DIAGRAM
4

From MDPE to LDPE



1.

1.

2.

2.

1.

2.

1.

2.

1.

2.










DIAGRAM
6

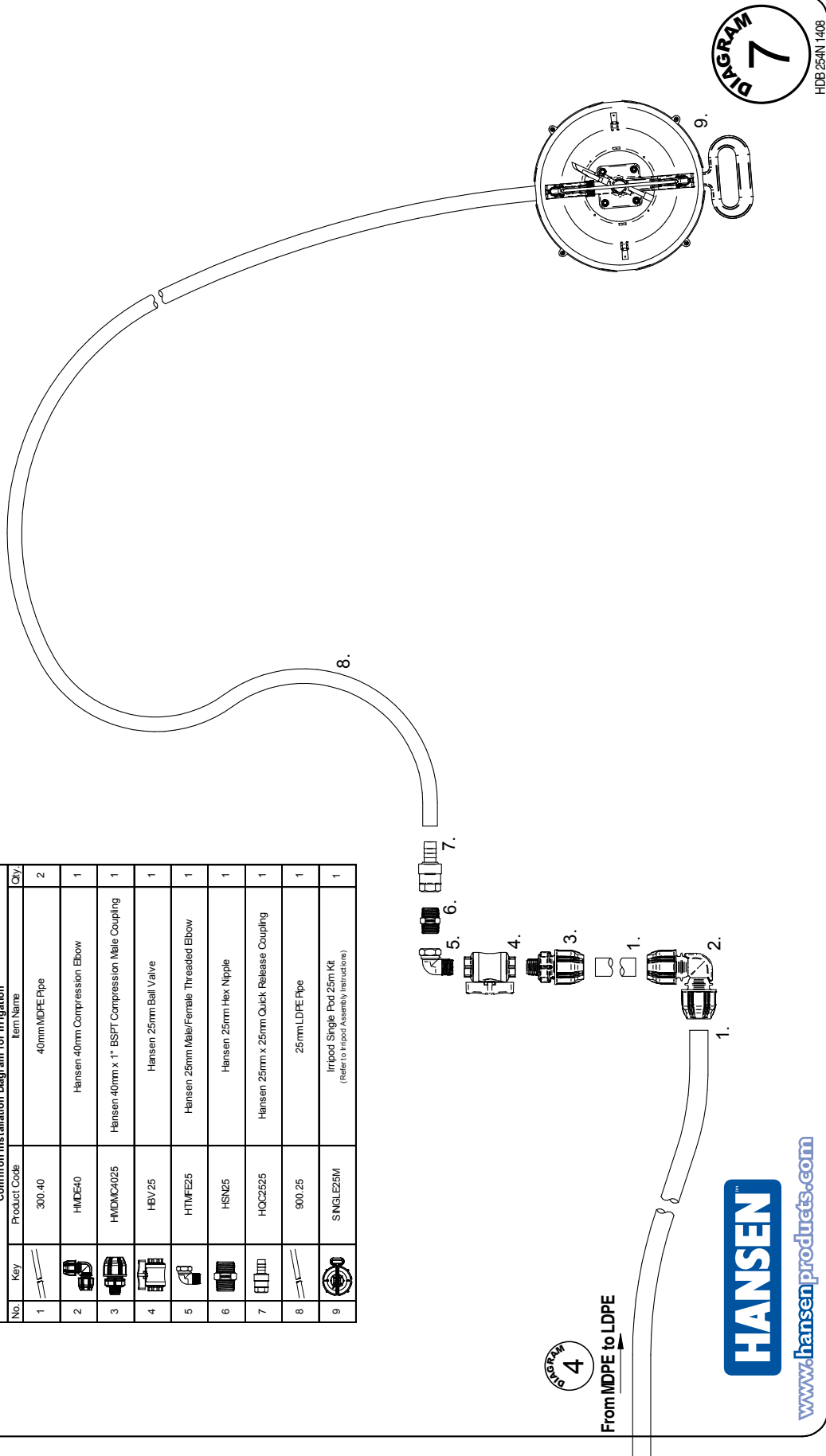
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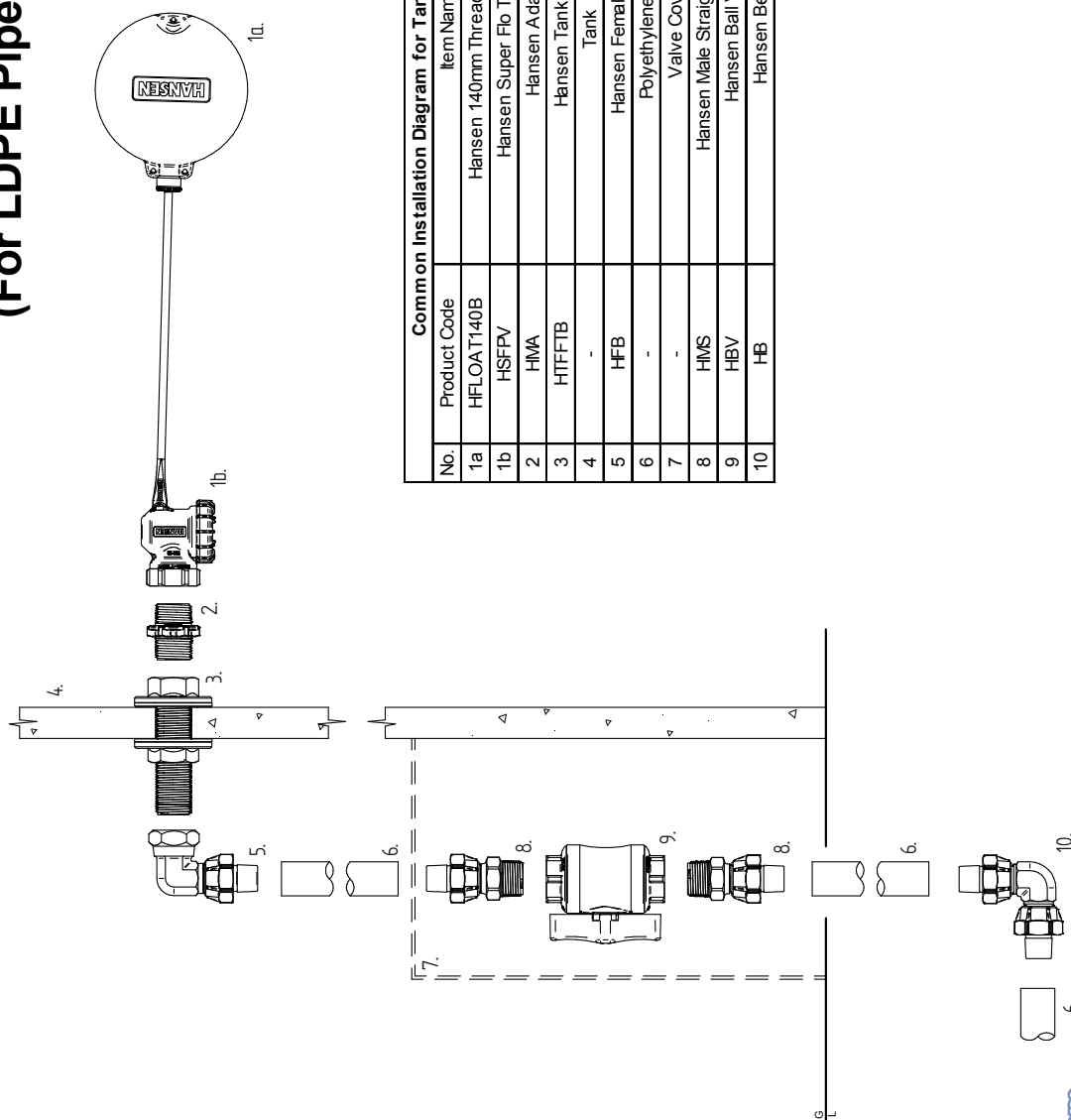
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Common Installation Diagram for Irrigation (For LDPE Pipe)

Common Installation Diagram for Irrigation			
No.	Key	Product Code	Item Name
1		300.40	40mm MDPE Pipe
2		HMD40	Hansen 40mm Compression Elbow
3		HMDMC025	Hansen 40mm x 1" BSPT Compression Male Coupling
4		HBV25	Hansen 25mm Ball Valve
5		HTMF25	Hansen 25mm Male/Female Threaded Elbow
6		HSN25	Hansen 25mm Hex Nipple
7		HQC2525	Hansen 25mm x 25mm Quick Release Coupling
8		900.25	25mm LDPE Pipe
9		SINGLE25M	Irripod Single Pod 25m Kit (Refer to Irripod Assembly Instructions)



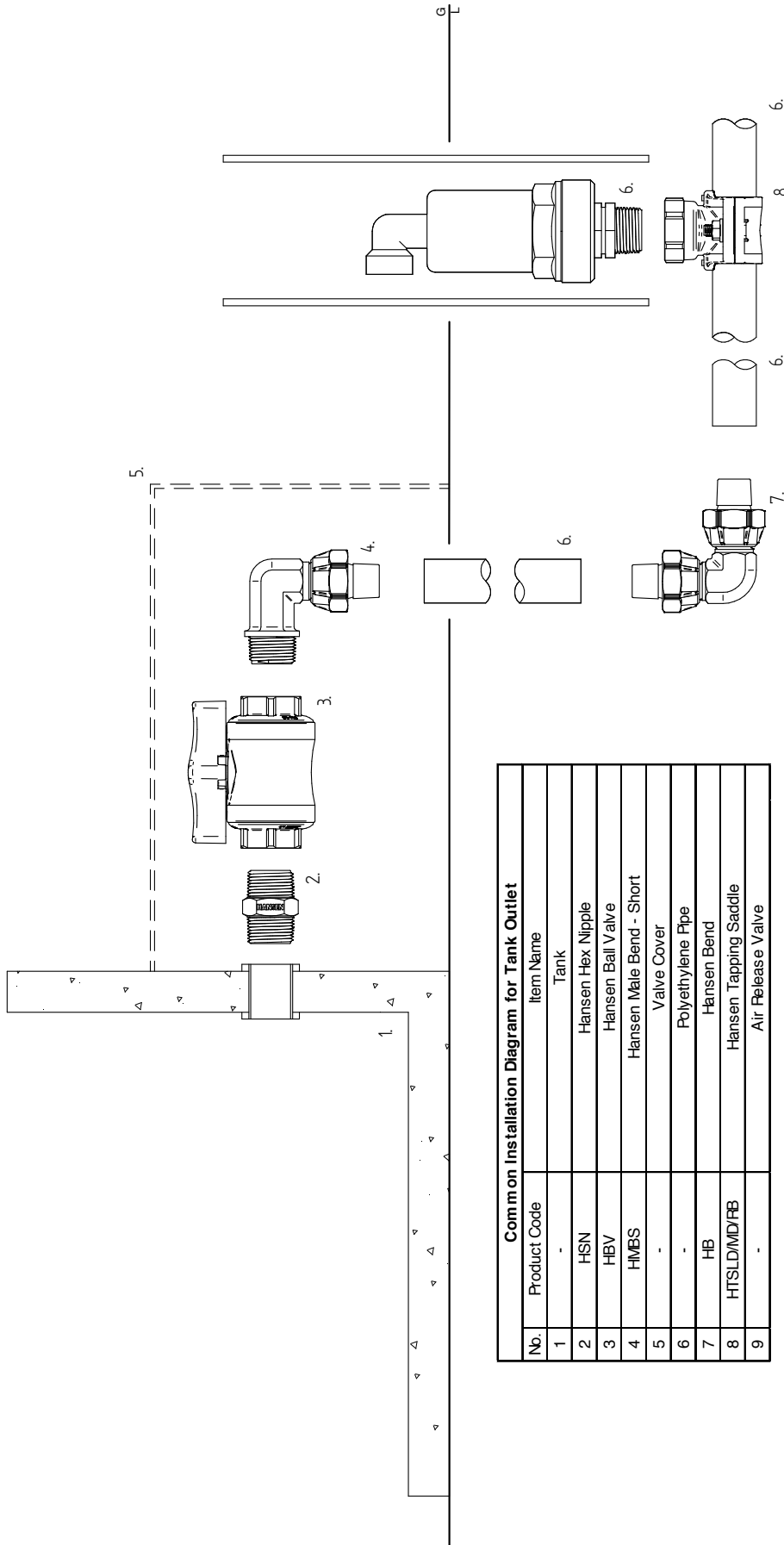
Common Installation Diagram for Tank Inlet (For LDPE Pipe)



Common Installation Diagram for Tank Inlet		
No.	Product Code	Item Name
1a	HFL0AT140B	Hansen 140mm Threaded Float - Blue
1b	HSPV	Hansen Super Flo Trough Valve
2	HMA	Hansen Adaptor
3	HTFFTB	Hansen Tank Fitting
4	-	Tank
5	HFB	Hansen Female Bend
6	-	Polyethylene Pipe
7	-	Valve Cover
8	HMS	Hansen Male Straight Coupling
9	HBV	Hansen Ball Valve
10	HB	Hansen Bend

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Common Installation Diagram for Tank Outlet (For LDPE Pipe)



Common Installation Diagram for Tank Outlet		
No.	Product Code	Item Name
1	-	Tank
2	HSN	Hansen Hex Nipple
3	HBV	Hansen Ball Valve
4	HMB-S	Hansen Male Bend - Short
5	-	Valve Cover
6	-	Polyethylene Pipe
7	HB	Hansen Bend
8	HTSLD/MD/RB	Hansen Tapping Saddle
9	-	Air Release Valve

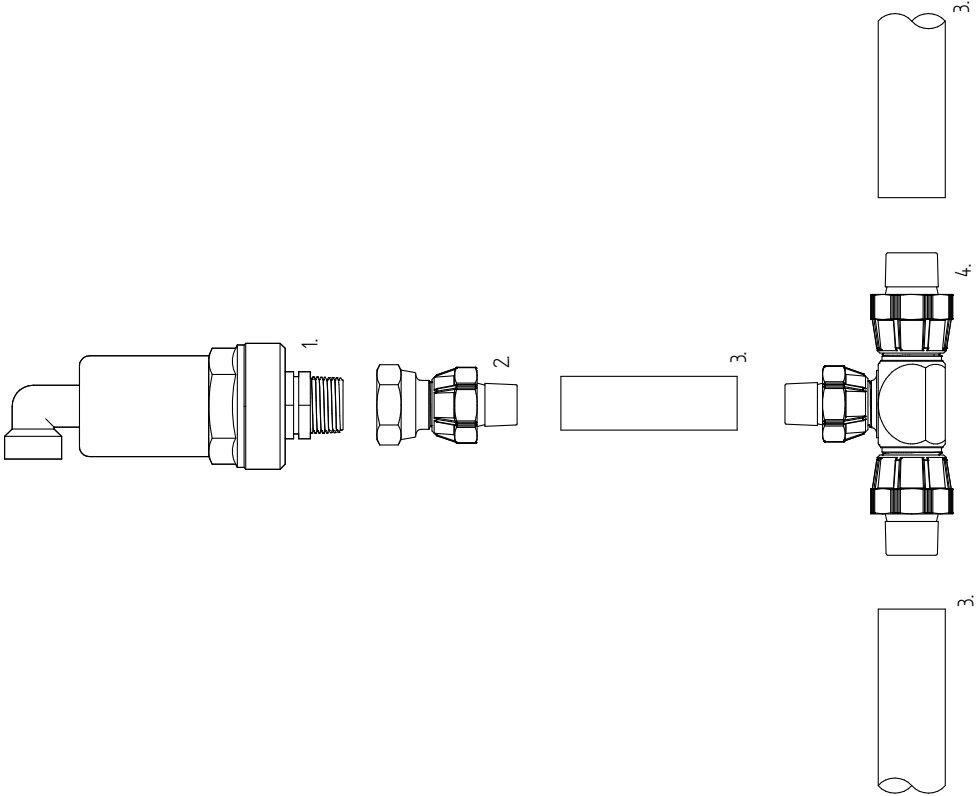
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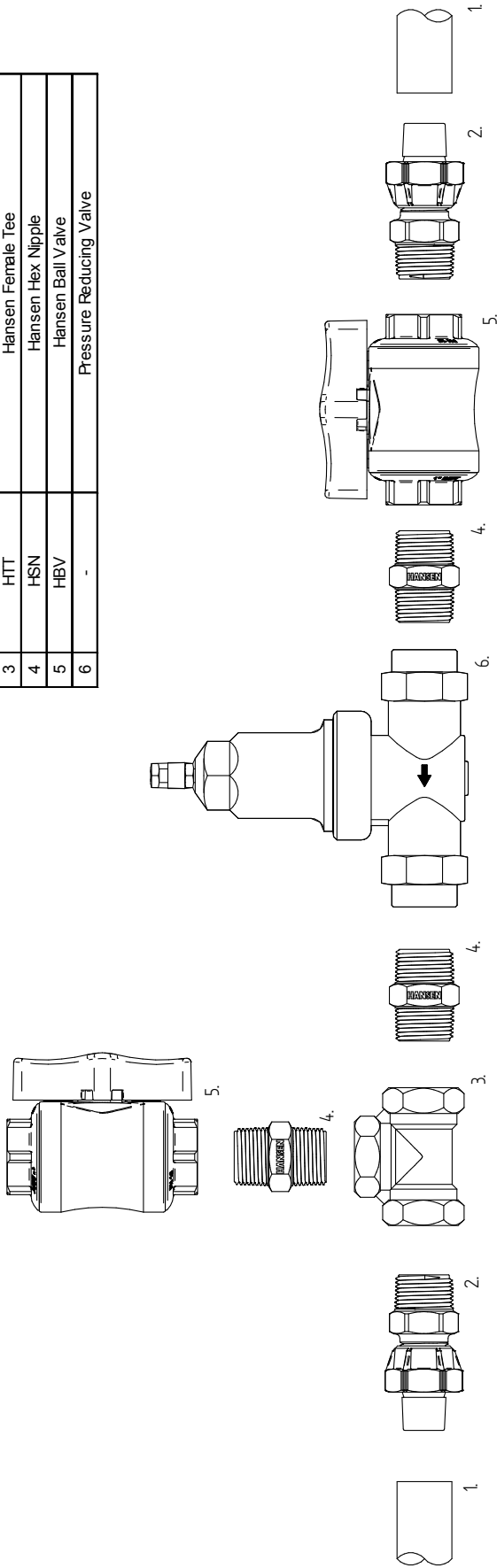
Common Installation Diagram for Air Release Valve (For LDPE Pipe)

Common Installation Diagram for Air Release Valve	
No.	Item Name
1	Air Release Valve
2	Hansen Female Straight Coupling
3	Polyethylene Pipe
4	Hansen Reducing Tee Connector



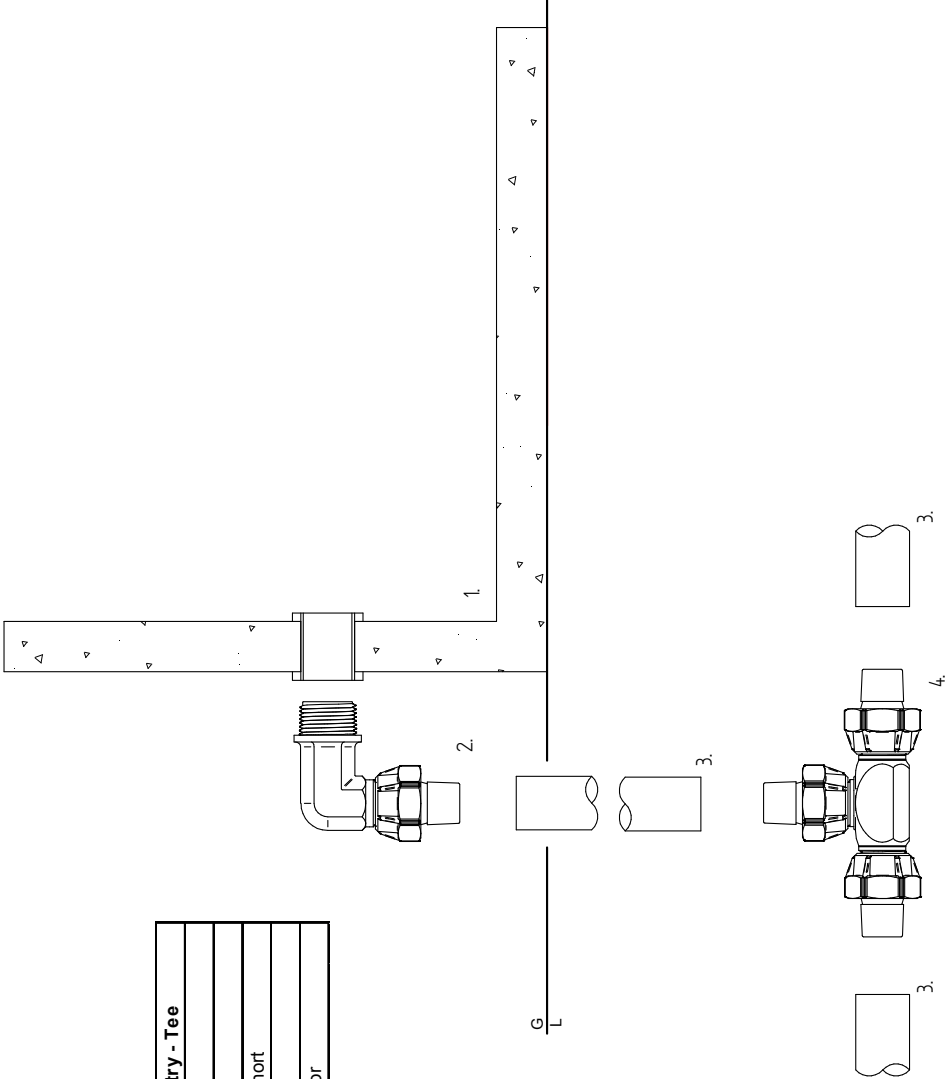
Common Installation Diagram for Pressure Reducing Valve Valve (For LDPE Pipe)

Common Installation Diagram for Pressure Reducing Valve	
No.	Item Name
1	Polyethylene Pipe
2	Hansen Male Straight Coupling
3	Hansen Female Tee
4	Hansen Hex Nipple
5	Hansen Ball Valve
6	Pressure Reducing Valve

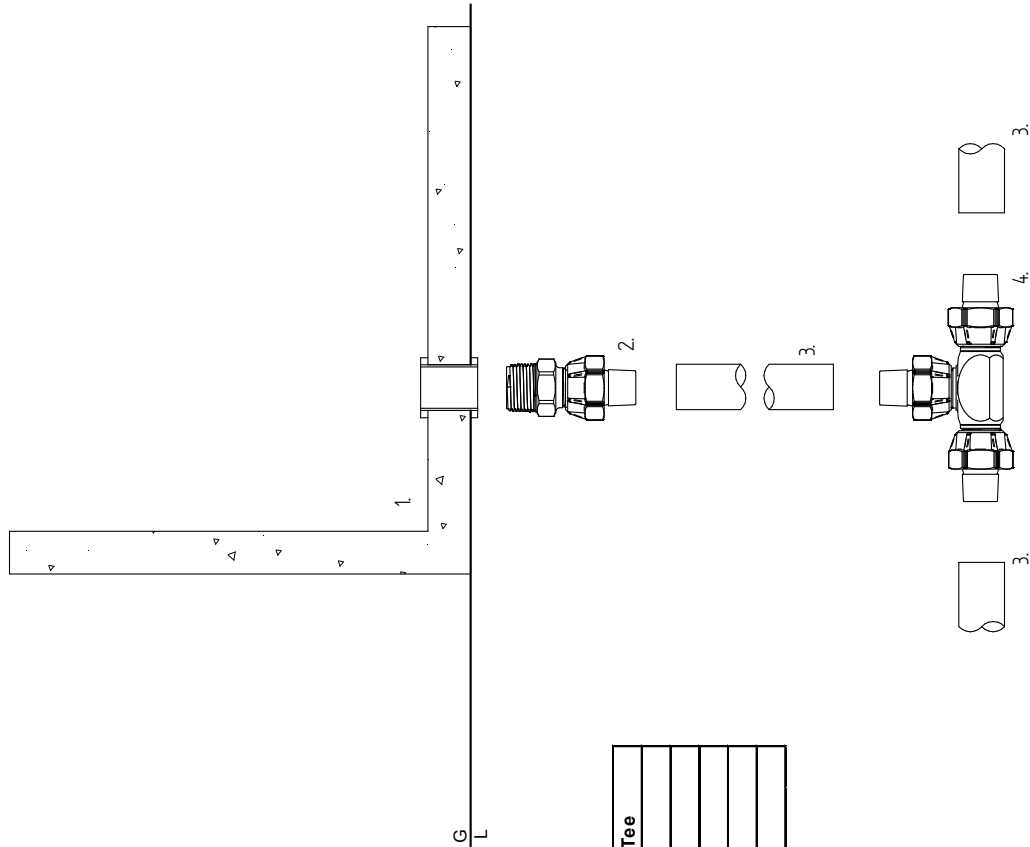


Common Installation Diagram for Trough Side Entry - Tee (For LDPE Pipe)

Common Installation Diagram for Trough Side Entry - Tee		
No.	Product Code	Item Name
1	-	Side Entry Trough
2	HMBS	Hansen Male Bend - Short
3	-	Polyethylene Pipe
4	HT	Hansen Tee Connector

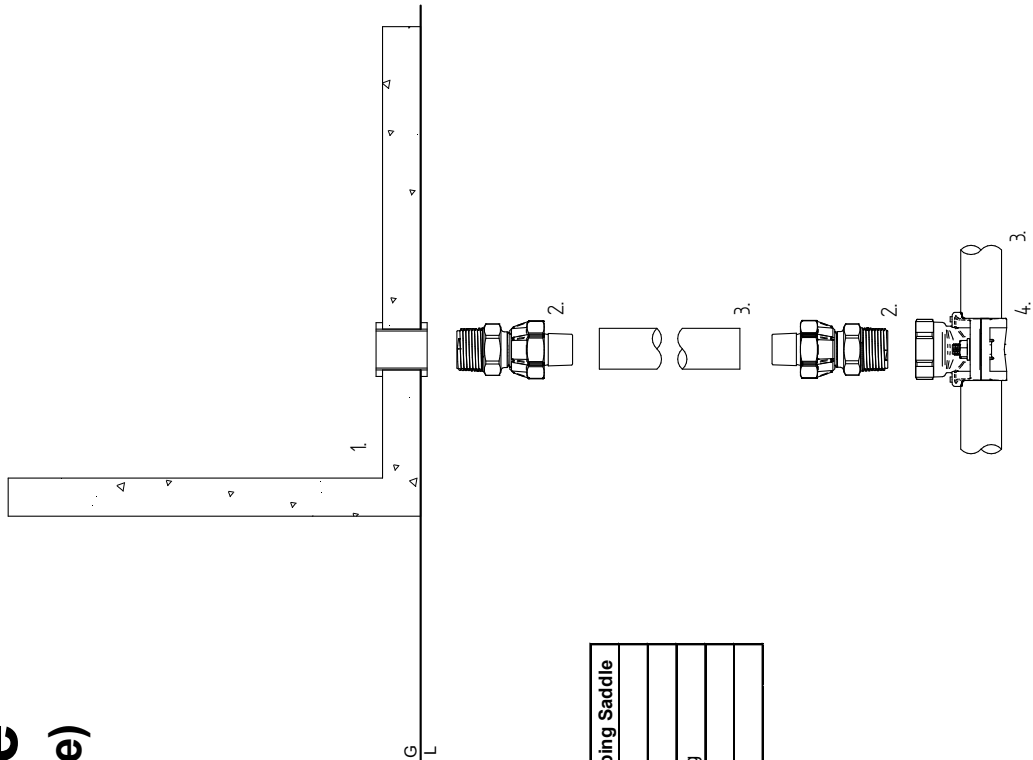


Common Installation Diagram for Trough Bottom Entry - Tee (For LDPE Pipe)



Common Installation Diagram for Trough Bottom Entry - Tee	
No.	Item Name
1	Bottom Entry Trough
2	Hansen Male Straight Coupling
3	Polyethylene Pipe
4	Hansen Tee Connector

Common Installation Diagram for Trough Bottom Entry - Tapping Saddle (For LDPE Pipe)



Common Installation Diagram for Trough Bottom Entry - Tapping Saddle	
No.	Product Code
1	-
2	HMS
3	-
4	HTSLD/MD/RB

Item Name	
Bottom Entry Trough	
Hansen Male Straight Coupling	
Polyethylene Pipe	
Hansen Tapping Saddle	

Irripod



Best Installed Value

SECTION EIGHTEEN

TECHNICAL SPECIFICATIONS





Irrigation System

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queries please either phone or email
our Irripod Market Manager

Barry Wallace
Mobile: 021 963 125
Email: Barry.wallace@irripod.com

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What is Irripod Irrigation?

Irripod Plus is a flexible, cost effective pipeline sprinkler irrigation system for pasture and forage crops.

Designed to operate at low pressure Irripod Plus distributes water on a slow absorption rate over a 12-24 hour period. This allows for effective absorption into the soil whilst eliminating pooling and run off. The system only requires movement once per 12-24 hour period.

Irripod Plus is a component system that is simple to install and manage. The system utilises protective Pod Skid covers over sprinklers that are attached to an irrigation pipeline. Irripod Plus can be configured to suit individual requirements dependant on application rates, the distance to be irrigated and

the rotation intervals appropriate for the situation. Each Irripod irrigation line can be customised to suit varying paddock sizes and shapes while also accommodating existing obstructions.

Irripod irrigation lines are strong, lightweight, flexible and easily moved while the system is operating by attaching the lines to an ATV or farm vehicle.

The flexibility of Irripod Plus means the system can be configured for many different end uses in addition to traditional pasture and forage crop irrigation; these include orchards, golf courses, sports fields, race tracks, dust suppression in developing housing subdivisions and bush fire protection.

Multiple Configuration Options



Irripod Pop-Up Pod



Irripod Lilac Effluent System



Irripod Plus High Visibility Pod



Irripod DIY Black Pod

Advantages of Irripod Plus Systems

Lower Cost of Ownership

- Allows irrigation of more marginal land
- Simple to add to irrigation scheme as funding allows
- Low pressure system translates into lower running costs
- Only requires one person to shift the lines

Simple Technology

- Easy to understand and manage
- Does not require specialist skills or tools

Efficient Water Application

- Low sprinkler height means less wind drift and effective water distribution pattern
- Mimics natural rainfall allowing for efficient soil water absorption and less runoff
- Smaller droplet size means less soil compaction

Versatile

- Able to be used on flat or rolling country and with odd shaped fields
- Able to be turned on and off without waiting for the irrigation cycle to be completed
- The system can be left on while livestock are in the field



Reasons to Specify Irripod Plus

Innovative Robust Design

- Fittings prevent the Pod unit from slipping or twisting on the pipe
- Wire protection Bar across the top of the Pod provides sprinkler protection against mechanical damage when shifting lines as well as damage from stock.

In Line and Single Pod Component System

- Assembly of the sprinkler to the Pod Skid Base prior to the Pod cover being attached saves on installation time
- The two piece Irripod can be replaced without cutting or rethreading the pipeline

Multiple Configuration Options

- Irripod accommodates multiple sprinkler sizes and 32mm (1 1/4"), 40mm (1 1/2") or 45mm (1 3/4") irrigation pipe sizing

'Pop-Up' Sprinkler Option for 40mm (1 1/2")

- Prevents hoof and leg injury in young stock and sprinkler damage from inquisitive stock
- Incorporates Nelson R2000 sprinkler with options to regulate

45mm System

- Designed to operate on High Volume 45mm (1 3/4") Irrigation pipe
- Incorporates 20mm (3/4") sprinklers, allowing for greater coverage and higher water volumes

Effluent System

- Irripod Effluent Systems distribute liquid effluent on a slow absorption rate
- Irripod Effluent Systems incorporates 45mm (1 3/4") design technology
- Internationally recognised Lilac colouring depicting effluent dispersal

Quality Materials

- High impact UV resistant plastic construction coupled with long life corrosion proof fastenings

Operating Guidelines

Irripod Plus System Management

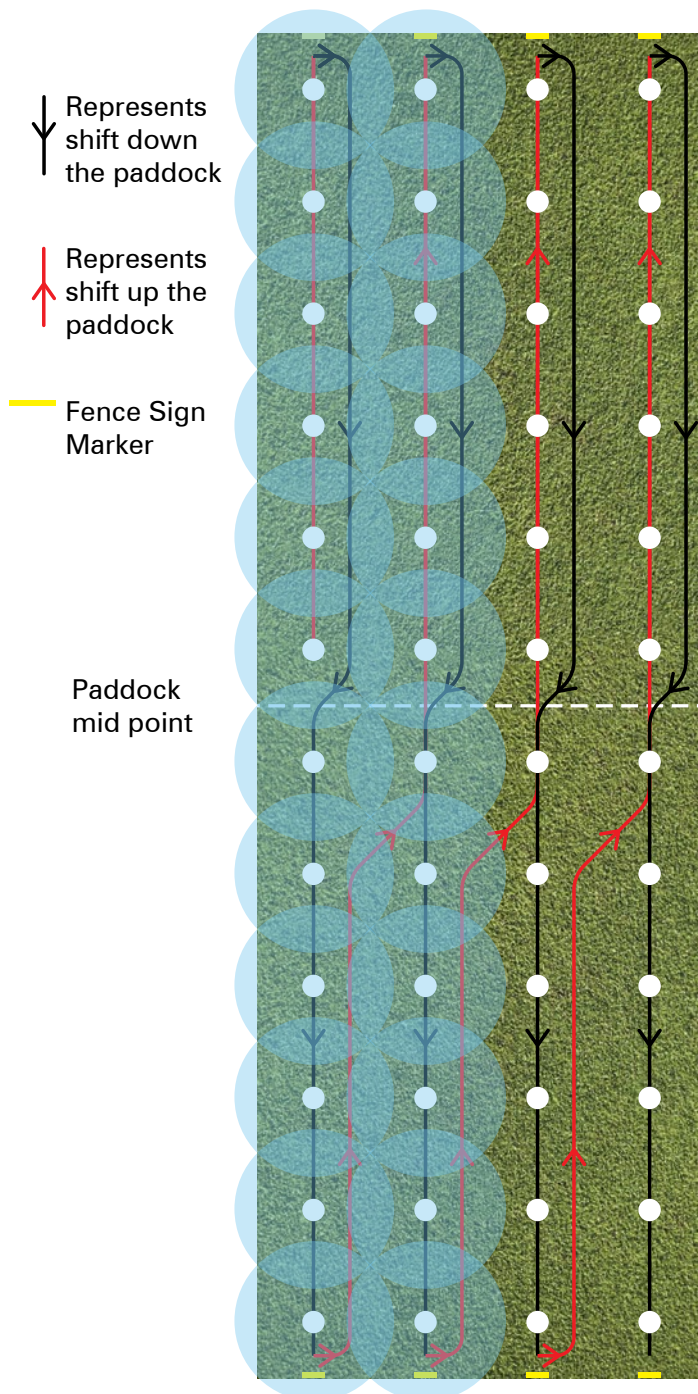
- Moving Times – 12 or 24 hours, dependant upon system design
- Return Times – Range from 8 to 14 days and are determined by soil structure, pasture/crop type, water availability and local climate conditions

Moving Irrigation Lines

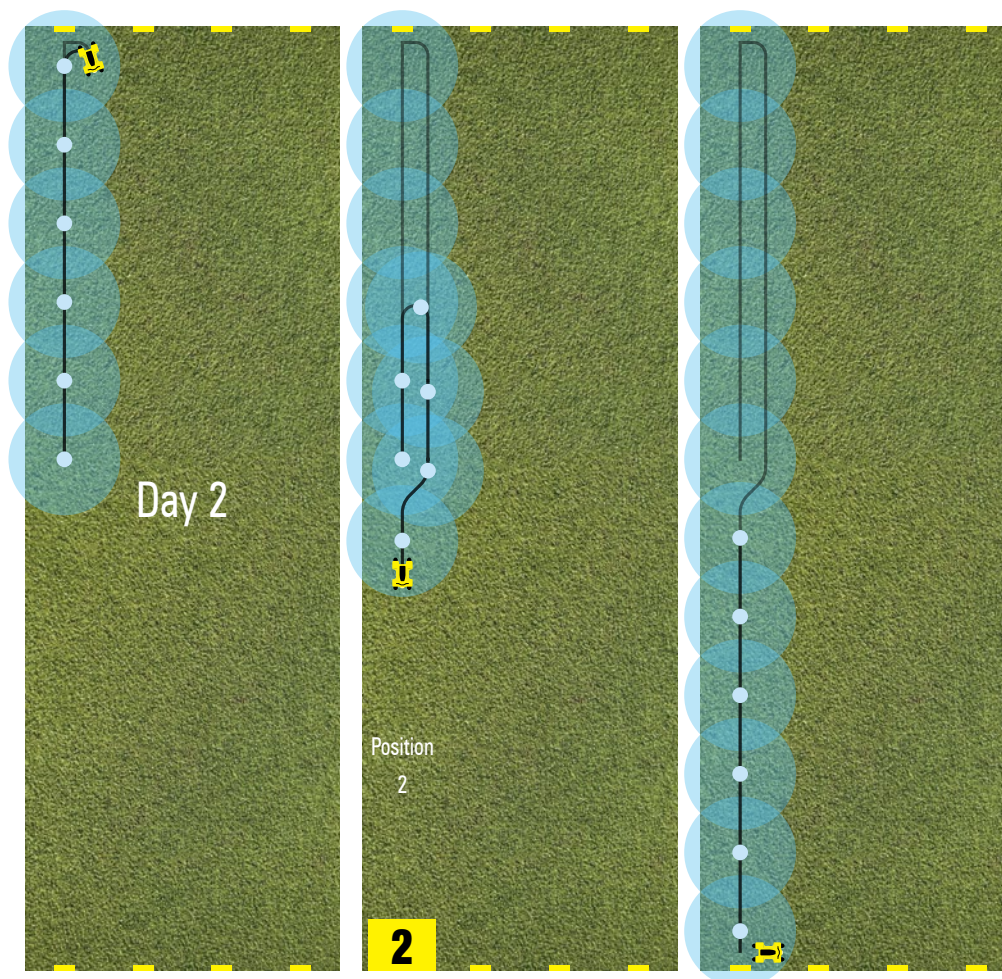
Irripod Plus lines have been designed to be moved whilst still operating. The system can be moved simply and safely with very little effort

- Movement is typically done by an ATV. Do not exceed ATV manufacturer's recommendations for maximum towing weight
- Use markers on the fence to align the irrigation line movements at required increments
- Picking up irrigation lines is done using the Hansen Tow Hook and Tow Rope which is secured to the ATV or other farm vehicle
- Ensure the ATV or farm vehicle is facing the direction the line is to be towed
- In one smooth movement proceed to skid the Feed/Sprinkler line towards the marker sign at the other end of the field, keeping the line within a couple of meters of its self for as long as possible to prevent pod rollover. Once line is in place unhook and proceed to next line

See example below of an Entire Movement Rotation of your Irripod System



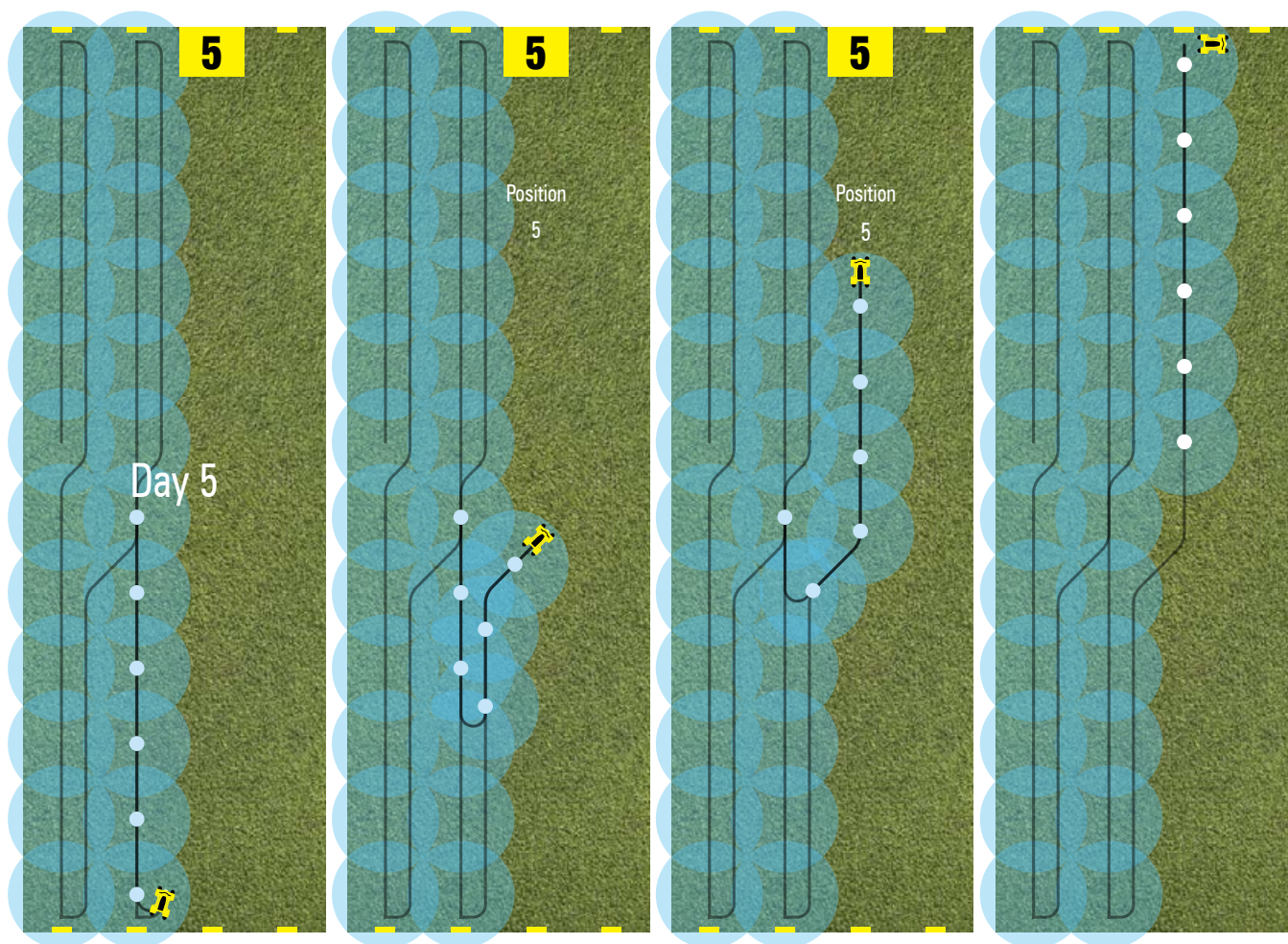
Example of Moving an Irripod System Steps 1 and 2



The aim when moving a sprayline to its next position in the rotation is to minimize the incidents of roll-over. Even though the sprinkler is protected from roll-over it can still be damaged. Also roll-over can cause twisting of the Pod pipe.

1. Approach the end of the sprayline at an angle that will allow you to move back down the sprayline at a distance of around 1-2 metres parallel to that sprayline.
Too close and the Pods will try to roll – Too far and the Pods will try to roll. (this will become apparent to the person moving the lines)
2. When placing spraylines in even day positions (i.e. 2nd shift – 4th shift etc) when reaching the end of the sprayline move across into correct position and proceed to the end of that system area.

Example of Moving an Irripod System Steps 3 and 4



3. When placing spraylines in odd day positions (i.e. 3rd shift – 5th shift etc) when reaching a point approximately 2/3rds of the length of that sprayline move out to next system spacing and proceed to the end of that system area.

Again this procedure will become apparent to the person shifting the spraylines, if they are not moving in or out at the correct point they will find the last 1 or 2 Pods will be out of line.

4. At the end of the system area rotation (return period) detach the sprayline from the dragline and tow the sprayline back into position 1. Detach the dragline from the hydrant and tow the length of the system area and then back into position and reattach to both hydrant and sprayline.

This will allow any twisting of the dragline that has occurred during rotation to be removed from pipe.

Irripod Pop Up Sprinkler Pods

Irripod 40mm Pop-Up Pod is a flexible, cost effective pipeline sprinkler irrigation system for pasture and forage crops, designed to operate at low pressure and distribute water on a slow absorption rate over a 12-24-hour period. This allows for effective absorption into the soil whilst eliminating pooling and run off. The system utilises protective Pod Skid covers over sprinklers that are attached to an irrigation pipeline. Irripod Pop-Up Pod can be configured to suit individual requirements dependant on application rates, the distance to be irrigated and the rotation intervals appropriate for the situation. Each Irripod irrigation line can be customised to suit varying paddock sizes and shapes while also accommodating existing obstructions.

Irripod In-Line Pop-Up Pod incorporates a Pop-Up protected sprinkler. The cover protecting the sprinkler also protects young and inquisitive stock from leg damage by allowing no access into the Pod body. The Irripod In-Line Pop-Up Pod is designed for use with Nelson R2000WF sprinkler series with the ability to incorporate the Nelson Mini Regulator.

Operating Guidelines

- Moving Times – 12 or 24 hours, dependent upon system design.
- Return Times – Range from 8 to 14 days and are determined by soil structure, pasture/crop type, water availability and local climate conditions



Pop Up Sprinkler down ie. Not in use



Pop Up Sprinkler up ie. In use



Pop Up Sprinklers in use while horses are in the paddock

Installing Irripod Pop Up Pods

Note: Pipe needs to be laid out at least 24 hours before installation of pods.

Step 1 Begin your installation at the far end of the pod line where the Tow Eye will be fitted (do not fit Tow Eye until line is flushed).

Step 2 Mark a position that is 1m from the end of the line. This is where you will install the first Pod Skid.

Step 3



Lay pipe over Skid Base and secure in position with Cross Tee Anchor.



Drill 15mm (9/16") hole at required spacing for the sprinkler type being used and remove all drilling swarf. Ensure the hole is drilled perpendicular to the Pod Base.



Screw either Nelson Mini Reg or Irripod ACME Male/Female High Riser onto ACME thread in base of Pop-up Piston and then place into Pop-up Tapping Saddle Top



Place Pop-up Screw Cap Seal on top of Pop-up Tapping Saddle Top and secure Pop-up Screw Cap into place.



Tip the Pop-up TST until Mini Reg or Riser protrude, hold with finger and screw on Nelson R2000WF. Note all threads should be hand tight, do not use a tool for tightening.



Fit O-ring seal to Pop-up Tapping Saddle Top, locate spigot into hole in pipe and fasten to Cross Tee Anchor, ensure fastening nuts are tightened evenly.



Locate body on skid base and push firmly down to engage grip lugs.



Secure top cover by screws around the base.



Fix wire clip into opposing holes on body sides.



Screw wire clip holders into the holes provided.



Locate Pop-up Pod Cover on top of Irripod Top Cover and ensuring the cutouts in the Pop-up Cover locate inline with the Pipe direction, fasten with screws.



Flush the irrigation line prior to fitting the pipeline Tow Eye to remove any drilling debris left in the pipe.

Step 4 Having completed the assembly of the first Pod Skid, measure along the pipe the sprinkler design spacing from the last Pod Skid. This is where you will place the next Pod Skid. You now need to assemble the Pod (repeat Step 3). When you have completed the assemblies of the Pod simply follow Step 4, and Step 3 until you have completed all Pod Skids required on the particular pod line.

Step 5 You should now have all the Pod Skids fitted to the Sprinkler line. It is best practice to camlock join the Pod line to the Feedline.

Note: Feedlines not to be less than distances from the Hydrant to boundary of spray line area.

Installing Inline Irrigation Pod Skids

Note: Pipe needs to be laid out at least 24 hours before installation of pods.

Step 1

Begin your installation at the far end of the pod line where the Tow Eye will be fitted (do not fit Tow Eye until line is flushed).

Step 2

Mark a position that is 1m from the end of the line. This is where you will install the first Pod Skid.

Step 3



Lay pipe over Skid Base and secure in position with Cross Tee Anchor.



Drill 15mm (9/16") hole at required spacing for the sprinkler type being used and remove all drilling swarf. Ensure the hole is drilled perpendicular to the Pod Base.



Select the Riser to suit your sprinkler size. Ensure fastening nuts are tightened evenly. Fit O-ring seal to sprinkler riser, locate riser spigot into hole in pipe and fasten the cross tee anchor.



Screw sprinkler into sprinkler riser.



Locate body on skid base and push firmly down to engage grip lugs.



Secure top body by screws around the base.



Fix wire clip into opposing holes on body sides.



Screw wire clip holders into the holes provided.



Flush the irrigation line prior to fitting the pipeline Tow Eye to remove any drilling debris left in the pipe.

Step 4

Having completed the assembly of the first Pod Skid, measure along the pipe the sprinkler design spacing from the last Pod Skid.

This is where you will place the next Pod Skid. You now need to assemble the Pod (repeat Step 3).

When you have completed the assemblies of the Pod simply follow Step 4, and Step 3 until you have completed all Pod Skids required on the particular pod line..

Step 5

You should now have all the Pod Skids fitted to the Sprinkler line. It is best practice to camlock join the Pod line to the Feedline.. **Note:** Feedlines not to be less than distances from Hydrant to boundary of spray line area.

Irripod In-line Multi Fit

Irripod In-line Multi Fit is a flexible, cost effective irrigation Pod Skid that can be used as a replacement Pod or on an extension to existing sprinkler irrigation systems. Designed to fit 32mm or 40mm LDPE pipe and to accommodate all LDPE fitting and sprinkler configurations. Irripod In-line Multi Fit offers a cost effective alternative for end users. Irripod Multi Fit is simple to install; just follow the step by step instructions.

Installing Pod Skids (Based on 15M Pod Spacings)



Lay pipe over Skid Base and secure in position with Cross Tee Anchor.



Drill 15mm (9/16") hole at required spacing for the sprinkler type being used and remove all drilling swarf. Ensure the hole is drilled perpendicular to the Pod Base.



Select the Riser to suit your sprinkler size. Ensure fastening nuts are tightened evenly. Fit O-ring seal to sprinkler riser, locate riser spigot into hole in pipe and fasten the cross tee anchor.



Screw sprinkler into sprinkler riser.



Locate body on skid base and push firmly down to engage grip lugs.



Secure top body by screws around the base.



Fix wire clip into opposing holes on body sides.



Screw wire clip holders into the holes provided.



Flush the irrigation line prior to fitting the pipeline end cap to remove any drilling debris left in the pipe.

Pack Includes:

Irripod Code	Description	Qty	Irripod Code	Description	Qty
CTA32-40LDPE	Cross Tee Anchor 32-40 LDPE	1	IP-BASE-BK	Irripod Black Base	1
TST32LDLAC	32mm LD Low Riser ACME	1	IP-COVER-BL	Irripod Black Top Cover	1
TST40LDLAC	40mm LD Low Riser ACME	1	IP-WIRE	Irripod Wire Protector	1
ACME-MF-HA	Acme Male-Female High Adaptor	1	IP-WIRECLIP	Irripod Wire Retainer Clips	2
ACME-F-MA	Acme-BSP Female Medium Adaptor	1	IP-BOLTS	Irripod Bolt Bag	1
			IP-SCREWS	Irripod Screw Bag	1
			IP-SEAL	Irripod Tapping Saddle Seal	1

Irripod Single Pod

Irripod Single Pod Sprinkler is your complete portable Irrigation solution. Features Include:

- Irripod Single Pod Sprinkler is designed to operate off a standard 19mm garden hose or 20mm to 25mm Polyethylene Pipe
- One Irripod Single Pod Sprinkler has a coverage area of 500sqm and an intensity rate of 2.6mm per hour
- The Single Pod Sprinkler is designed to operate at very low pressures (3 Bar)

Irripod Single Pod Sprinkler is a versatile, strong, portable Sprinkler Irrigation System. The Single Pod sprinkler is ideally suited to fit in small paddocks or irregular shaped areas where it is difficult to fit traditional irrigation systems. Irripod Single Pod sprinklers are manufactured from commercial grade materials to ensure long life durability and value.

Installing Single Pod Sprinklers

Prior to commissioning the irrigation line it is recommended that the Single Pod be disconnected and the line flushed to remove any debris.



Thread tape the end of the handle.



Screw on the Hansen Female Straight Coupler or the fitting to match your chosen hose/pipe to the end of the handle.



Attach the handle to the Pod Skid with the 2 u-bolts and screws.



Insert the Hansen Hex Nipple into the Pod Skid Base. Then screw on the Hansen 20mm Female Socket.



Screw the 20mm sprinkler into the socket.



Connect hose/pipe to attached fitting.



Locate the Pod cover onto Pod Skid base and push firmly down to engage grip lugs.



Secure top cover by screws around the base.



Fix wire clip into opposing holes on body sides. Screw wire clip holders into the holes provided.

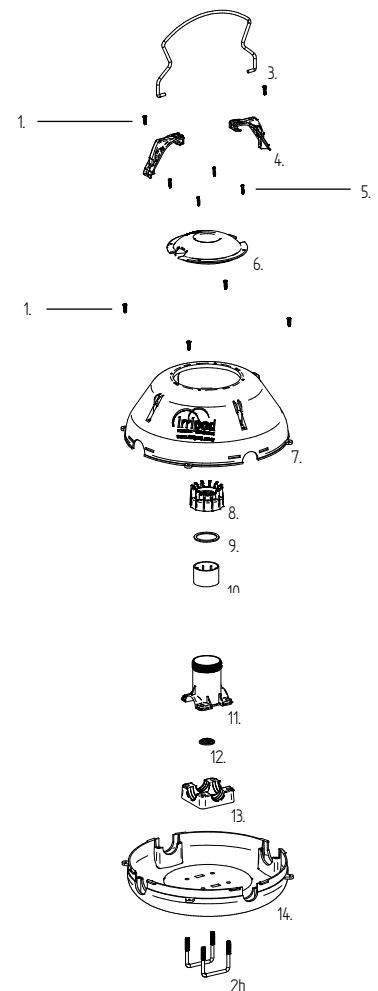
Pack Includes:

Irripod Code	Description	Qty	Irripod Code	Description	Qty
IP-BASE-BK	Irripod Black Base	1	HANDLE25	Handle 20mm Female x 25mm Male	1
IP-COVER-BL	Irripod Black Top Cover	1	HFS25	Hansen 25mm Female Straight	1
IP-WIRE	Irripod Wire Protector	1	HS20	Hansen 20mm Socket	1
IP-WIRECLIP	Irripod Wire Retainer Clips	2	SHN20	Hansen 20mm Hex Nipple	1
IP-UBOLTS	Irripod U Bolt Bag	1	N5035	Nann 5035 Sprinkler	1
IP-SCREWS	Irripod Screw Bag	1			

Irripod 40mm Pop Up Pod

No.	Product Code	Item Name	Qty
Screw Bag Contains			
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
Bolt Bag Contains			
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	IP-UBOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	A231	Small Self Tapper (6x3/4)	4
6	POPCOVER	Pop-up Pod Cover	1
7	IP-COVER-WH	Irripod White Top Cover	1
8	POPCAP	Pop-up Screw Cap	1
9	POPSEAL	Pop-up Screw Cap Seal	1
10	POPPISTON	Pop-up Piston	1
11	TST40LDPOP	40mm LDPE Pop-up Tapping Saddle Top	1
12	IP-SEAL	Seal	1
13	CTA32-40LD	Irripod Cross Tee Anchor 32-40 LDPE	1
14	IP-BASE-BLK	Irripod Black Base	1

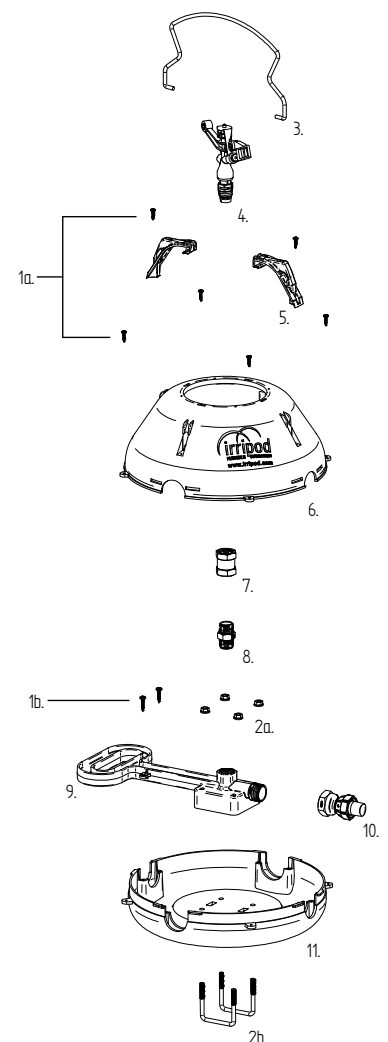
Items 5, 6, 8, 9, 10 and 11 are included in TST40POPKIT.



Irripod End of Line Pod

Irripod Single 25M Pod			
No.	Product Code	Item Name	Qty
Screw Bag Contains			
1a	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
1b	IP-SCREWS	Large Self Tapper (12 x 1)	2
Bolt Bag Contains			
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	M8U-BOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	A329	Senninger 4023 Sprinkler (Packed Separately)	1
5	IP-WIRECLIP	Irripod Wire Retainer Clips	2
6	IP-COVER-BL	Irripod Black Top Cover	1
7	SS20	20mm Hansen Socket	1
8	SHN20	20mm Hansen Nipple	1
9	HANDLE25	Handle 20mm Female x 25mm Male	1
10	HFS25	25mm Hansen Female Straight Coupling	1
11	IP-BASE-BLK	Irripod Black Base	1

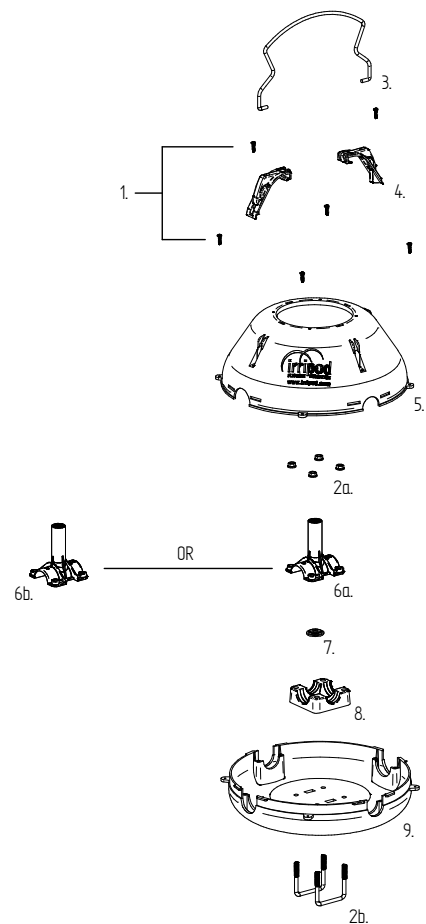
Items 1a-1b, 2a-2b, 3, 4, 6 and 8 are included in SINGLEKITU.



Irripod 32mm & 40mm fit 15mm Sprinkler Pod

No.	Product Code	Item Name	Qty
	Screw Bag Contains		
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
	Bolt Bag Contains		
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	IP-UBOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	IP-COVER-WH	Irripod White Top Cover	1
6a	TST32LDH15F	32mm LD High Riser	1
6b	TST40LDH15F	40mm LD High Riser	1
7	IP-SEAL	Seal	1
8	CTA32-40LD	Irripod Cross Tee Anchor 32-40 LDPE	1
9	IP-BASE-BLK	Irripod Black Base	1

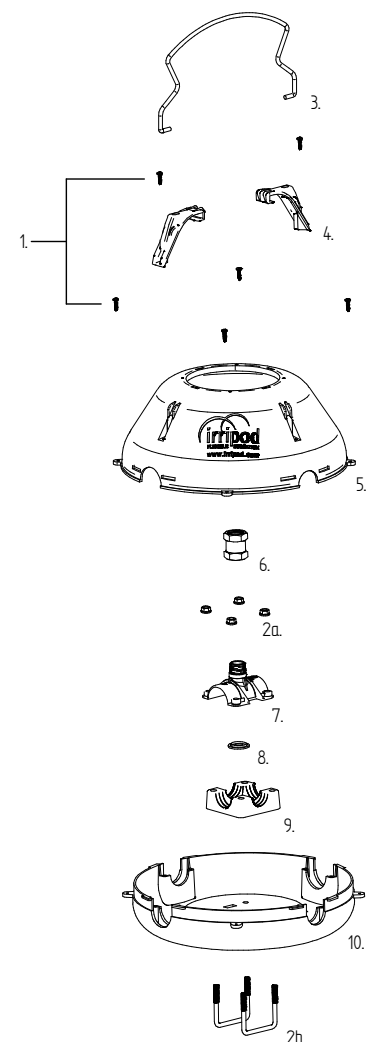
Items 1, 2a-2b, 3, 4, 7 and 8 are included in TSK32-40LDU.



Irripod 45mm fit 20mm Sprinkler Pod

No.	Product Code	Item Name	Qty
	Screw Bag Contains		
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
	Bolt Bag Contains		
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	IP-UBOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	IP-COVER-WH	Irripod White Top Cover	1
6	SS20	20mm Hansen Socket	1
7	TST45LDL20M	45mm LD Low Riser	1
8	IP-SEAL	Seal	1
9	CTA40-45LD	Irripod Cross Tee Anchor 40-45 LDPE	1
10	IP-BASE-BLK	Irripod Black Base	1

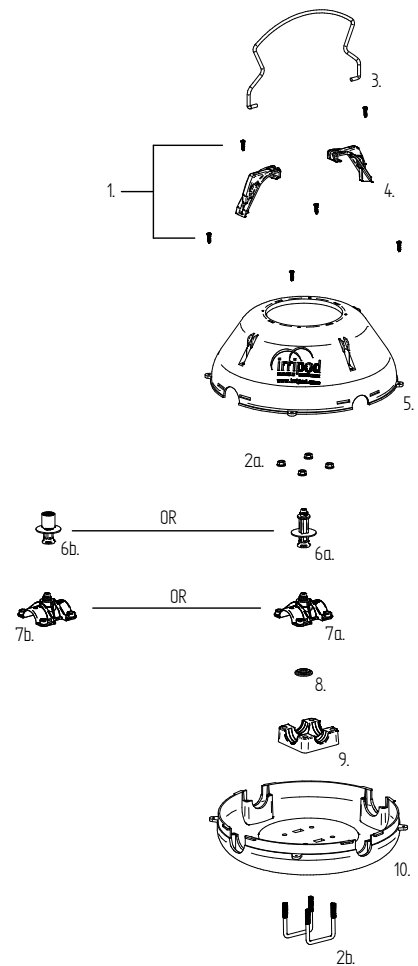
Items 1, 2a-2b, 3, 4, 8 and 9 are included in TSK40-45LDU.



Irripod Multi Fit

No.	Product Code	Item Name	Qty
	Screw Bag Contains		
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
	Bolt Bag Contains		
2a	IP-BOLTS	M8 Flanged Nuts	4
2b	IP-BOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	IP-COVER-BL	Irripod Black Top Cover	1
6a	ACME-MF-HA	ACME Male-Female High Adaptor	1
6b	ACME-F-MA	ACME-BSP Female Medium Adaptor	1
7a	TST32LDLAC	32mm LD Low Riser ACME	1
7b	TST40LDLAC	40mm LD Low Riser ACME	1
8	IP-SEAL	Seal	1
10	CTA32-40LD	Irripod Cross Tee Anchor 32-40 LDPE	1
11	IP-BASE-BLK	Irripod Black Base	1

Items 1, 2a-2b, 3, 4, 8 and 9 are included in TSK32-40LDU.



Tools Required

- Flexible Pipe Cutter or Hacksaw or Sharp Knife
- Cordless Drill - 1 preferably 2
- 9/16" Drill Bit (ideal size but 15mm is fine)
- Rubber Mallet
- Stillsons – 1 preferably 2
- Ratchet
- Socket 1/2" or 13mm Long Barrel
- Phillips/Pozi Screw Driver for Cordless Drill (long)
- 30m or 50m Measuring Tape
- Insulation Tape or White Paint Pen to mark hole locations
- Thread Seal Tape x 4 (kit comes with some but extra is generally required)
- Lubricant



Effluent Distribution System

For all Technical Irripod
Effluent Distribution queries
please either phone or email our
Irripod Market Manager

Barry Wallace
Mobile: 021 963 125
Email: Barry.wallace@irripod.com

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What is an Irripod Effluent System

- Irripod Effluent Systems are flexible cost effective Pod Pipeline Systems for Effluent Distribution
- Designed to operate at low pressure. The Irripod Effluent System distributes liquid effluent on a slow absorption rate over a 12-24 hour period. This allows for effective absorption into the soil whilst eliminating pooling and run off
- The Irripod Effluent System is a component system that is simple to install and manage
- The Irripod Effluent System utilises Protective Pod Skid covers over sprinklers that are attached to a 45mm Effluent Pipeline
- The Irripod Effluent System can be configured to suit individual requirements depending on the application rates, the distance to be irrigated and the rotation intervals appropriate for the situation
- Each Irripod Effluent System can be customized to suit varying paddock sizes and shapes while also accommodating existing obstructions
- Irripod Effluent Systems are strong, lightweight and flexible
- Easily moved by attaching the Hydrant or Pod lines to an ATV or farm vehicle
- The Irripod Effluent System is designed to Distribute Liquid Effluent. (solid materials separated via a Dual Pond System or Solid Separator - Not Included)

NOTE: The Irripod Effluent System has been designed to distribute liquid effluent only, it is important to remove solid materials



Advantages of an Irripod Effluent System

- Low cost of ownership and maintenance
- Low application rate, translates into slow absorption into soil whilst eliminating pooling and run off
- Low labour, the system only requires one person to shift the lines, and does not require specialist training or tools
- Low pressure system, (2-4Bar) translates into lower running cost
- Low sprinkler height means less wind drift and effective Effluent distribution
- Smaller droplet size means less soil compaction
- Suitable for flat and rolling ground
- Each Effluent Pod Line can be controlled independently off the system and can be tailored to suit paddock layouts
- High Flow 20mm Impact Sprinklers, eliminates Nozzle blockages
- High Volume 45mm Lilac Tri striped Irripod Effluent Mainlines
- System Specific Hansen™ 45mm Lilac Polythene Pipe Fittings
- Quick Release Portable Hydrant Kit
- The Lilac Pods are highly visible minimizing the chance of running over with farm machinery
- Wire Protector across the Pod provides protection to the Sprinkler, thus eliminating damage
- Irripod Effluent Systems distribute liquid effluent on a slow absorption rate
- Irripod Effluent Systems incorporates 45mm (1 3/4") design technology
- Internationally recognised Lilac colouring depicting effluent dispersal

**Irripod 45mm
Effluent Pods
in use**

System Layout

The Irripod Effluent System has been designed to be moved easily by one person, you will require an ATV or farm vehicle to drag the Sub Main Line and Pod Sprinkler Lines (See overleaf for steps).

Your Irripod Effluent System has been provided with the Hansen[™] 45mm Male Camlock Fittings for both ends of the 50 metre Sub Main Set and the 120 metre Pod Sprinkler Lines. This allows you to attach the Sub Main Set to the Adaptor Set via a 63mm Drag Hose, or the Pod Sprinkler Lines to the Pod Hydrants from either end.

System Specifications

Sub Main

Sub Main consists of 50 metres of High Volume 45mm Lilac Tri Striped Irripod Effluent Pipe, this pipe is rated at PN5 (71psi). The Pod Hydrants are attached to the Sub Main Pipe at 20 metre spacing's.

Pod Sprinkler Lines

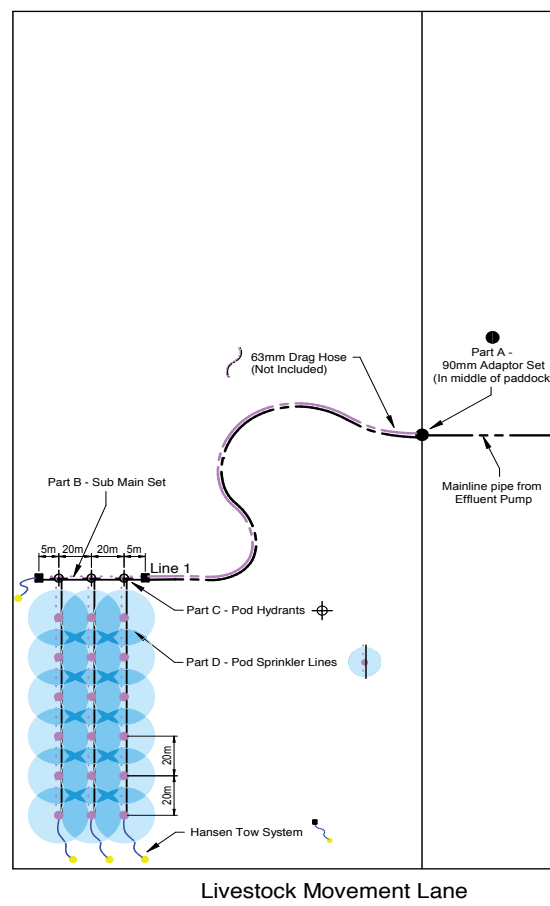
Pod Sprinkler Lines consist of 120 metres of High Volume 45mm Lilac Tri Striped Irripod Effluent Pipe, this pipe is rated at PN5 (71psi). The pipe is marked at 1 metre intervals. The Irripod Effluent Pods are attached to the Pod Lines at 20 metre spacing's. Each Pod Line is spaced at 20 metres by 20 metres and has a coverage of 2400 sqm (0.24h).

Sprinklers

Senninger 4023 Plastic 20mm Male, Full Circle, Impact Sprinklers.

Nozzles

Application rates vary with nozzle selection. Note: Irripod Effluent Kit contains 4.0mm nozzles.



Nozzle Size mm	Nozzle Colour Code	Flow Rate* l/min	Area (20x 20m) m ²	Intensity mm/hr	Intensity mm/24hr	Diameter m
4.0mm	Turquoise	15.6	400	2.34	56.16	27.50
4.4mm	Yellow	19.2	400	2.88	69.12	28.00
4.8mm	Red	22.8	400	3.42	82.08	29.00
5.2mm	White	27	400	4.05	97.20	30.00
5.6mm	Blue	31.2	400	4.68	112.32	30.50

* Senninger 4023-1-20mm. Sprinkler Pressure is @ 2.5 Bar

Operating Pressure

Minimum operating pressure required at each Pod is 2.5 Bar.

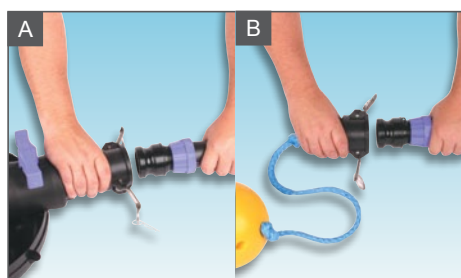
Moving Effluent Pod Sprinkler Lines

Step 1



- A.** Turn the Isolating Valve off, this is located on the 90mm Adaptor Set (Part A).
- B.** Turn all the Pod Sprinkler Valves off at the Pod Hydrants (Part B).

Step 3



- A.** Disconnect the Male Camlock at the Pod Hydrant end (Part C).
- B.** Connect the Hansen™ Tow System to the Male Camlock.

Step 5



Connect the Pod Sprinkler Line to the Pod Hydrant and turn the Pod Sprinkler Line to the on position.

Repeat steps 2 to 5 until all the Pod Sprinkler Lines have been relocated.

Turn the Isolating Valve on and begin irrigating.

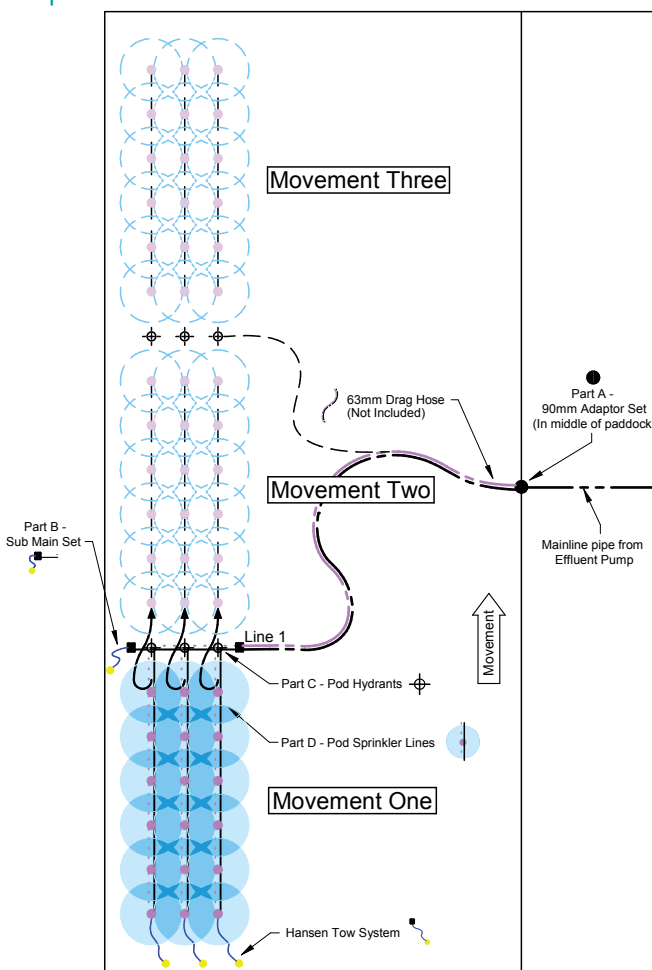
When the desired level of effluent has been applied to the paddock turn the Isolating Valve off; this is located on the 90mm Adaptor Set (Part A).

Step 2



Remove the Hansen™ Tow System from the Male Camlock at the opposite end of the Pod Sprinkler Line (Part D).

Step 4



Livestock Movement Lane

Attach the Pod Sprinkler line to an ATV and Proceed to drag the line across the sub main pipe in the opposite direction of the previous location of the line.

NOTE: Your Irripod Effluent system has been designed to be turned off when moving the Pod Sprinkler Lines.

Relocating your Effluent System



Step 1. Turn the 90mm Adaptor Set Isolating Valve to off.



Step 2. Proceed to turn all the Pod Sprinkler Lines Valves off at the Pod Hydrants.



Step 3a Disconnect the Sub Main from the Drag Hose.

Step 3b Disconnect each of the Pod Sprinkler Lines from the Pod Hydrants.



Step 4. Connect the Sub Main to the ATV via the Hansen™ Tow System; proceed to drag the Sub Main to the new location.



Step 5. Connect the Pod Sprinkler Lines to the ATV via the Hansen™ Tow System; proceed to drag the Pod Sprinkler Lines to the new location.



Step 6. Disconnect the Drag Hose from 90mm Adaptor Set and drag to new paddock.

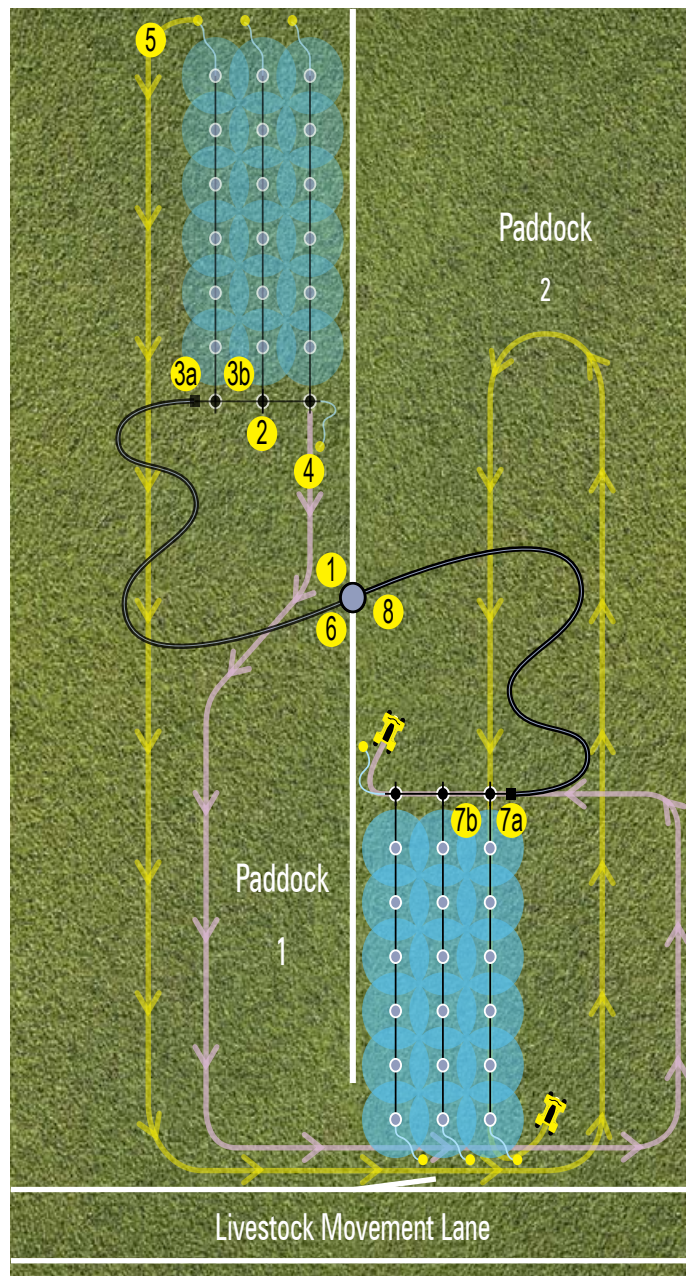


Step 7a. Re-connect Sub Main to the Drag Hose.

Step 7b. Re-connect Pod Sprinkler Lines to Pod Hydrants and turn on the three valves that are connected to the pod sprinkler lines.



Step 8. Re-connect the Drag Hose to the Adaptor Set and turn on the Isolating Valve to begin irrigating at the new location.



● 90mm Adaptor Set

ATV or Farm Vehicle

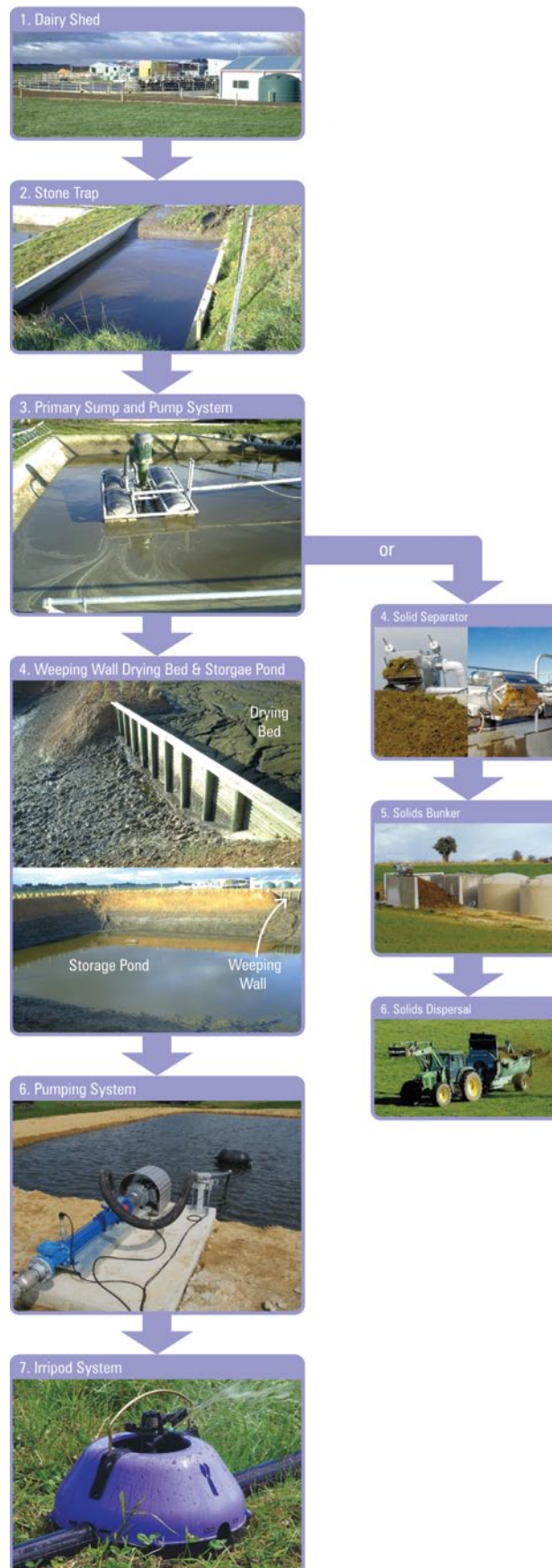
Sub Main Set (with Pod Hydrants)

Towing Movement Lines

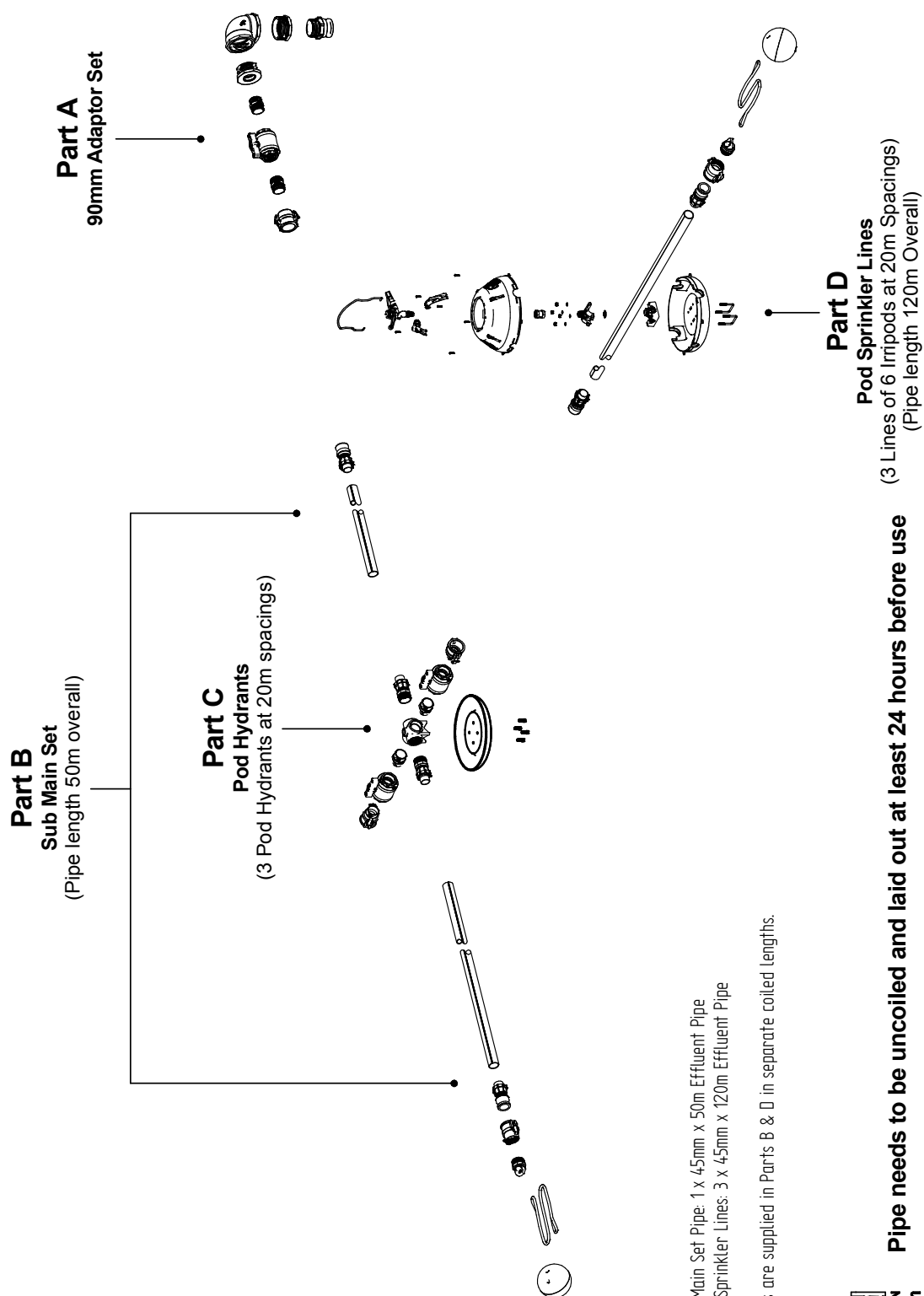
Pod Sprinkler Lines

Drag Hose

Typical Dairy Effluent Layout



Exploded View of Irripod Effluent System

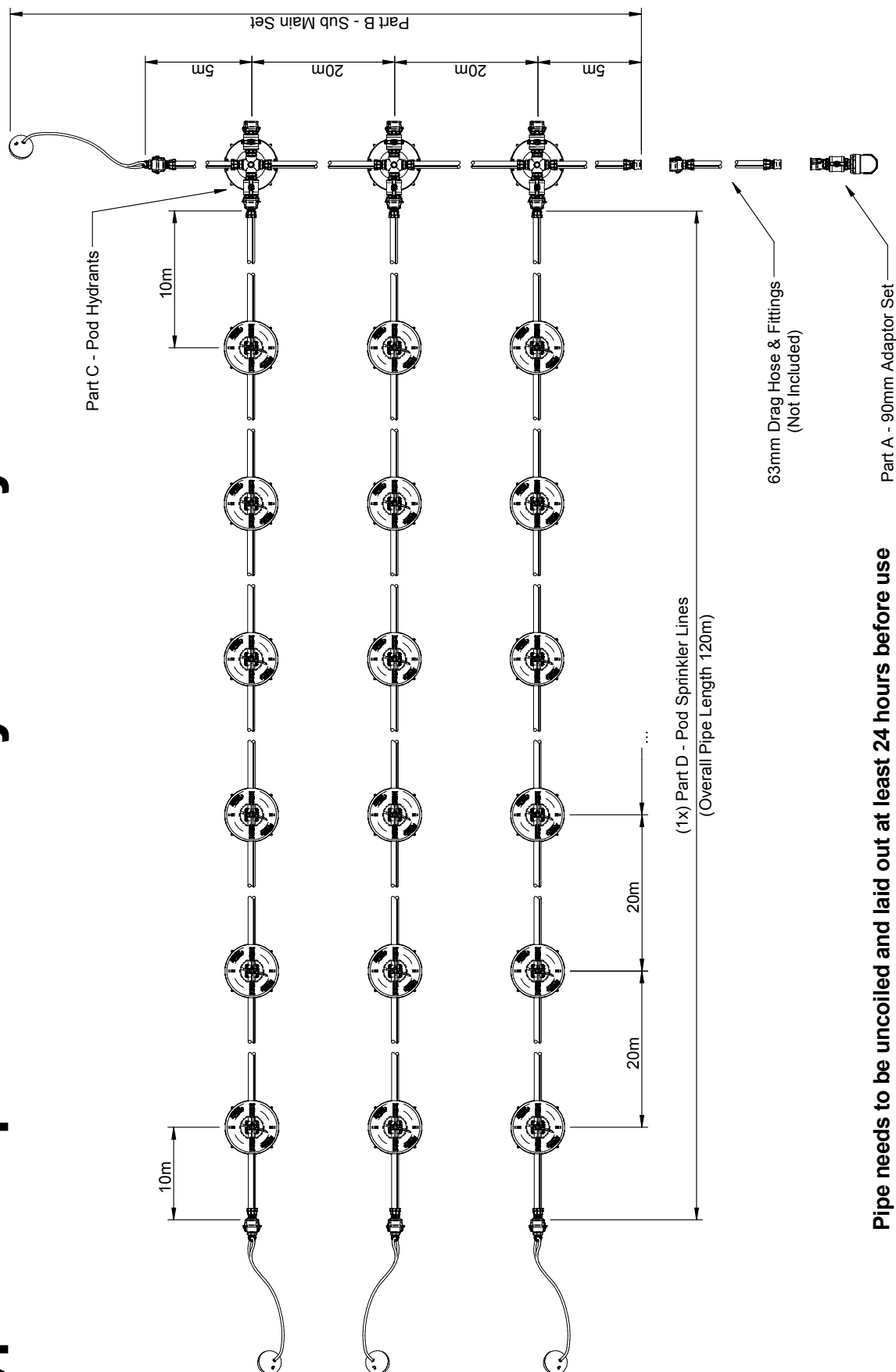


Pipe Details:
 Part B – Sub Main Set Pipe: 1 x 45mm x 50m Effluent Pipe
 Part D – Pod Sprinkler Lines: 3 x 45mm x 120m Effluent Pipe

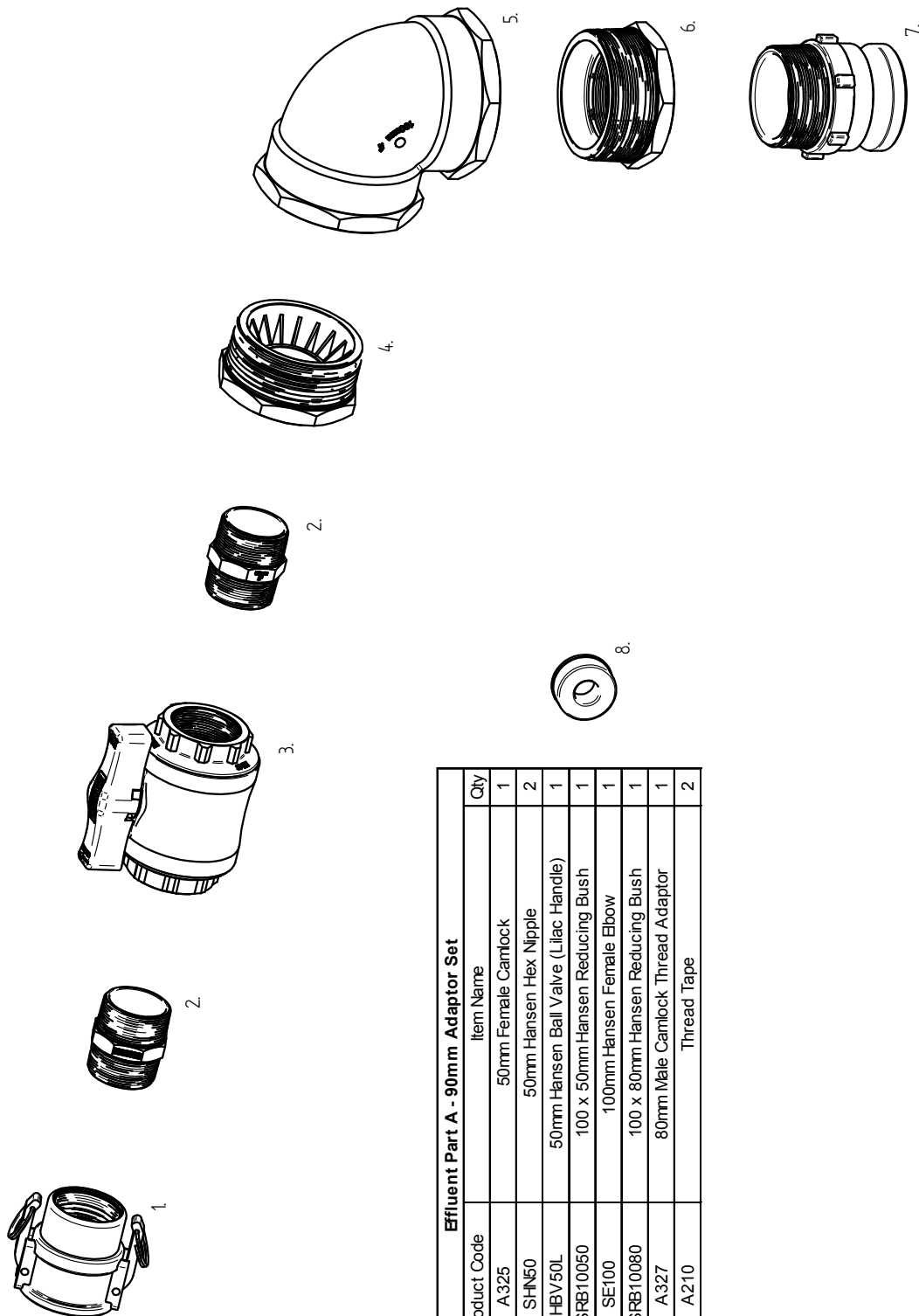
Note: All pipes are supplied in Parts B & D in separate coiled lengths.

Pipe needs to be uncoiled and laid out at least 24 hours before use

Typical Iripod Effluent System Layout

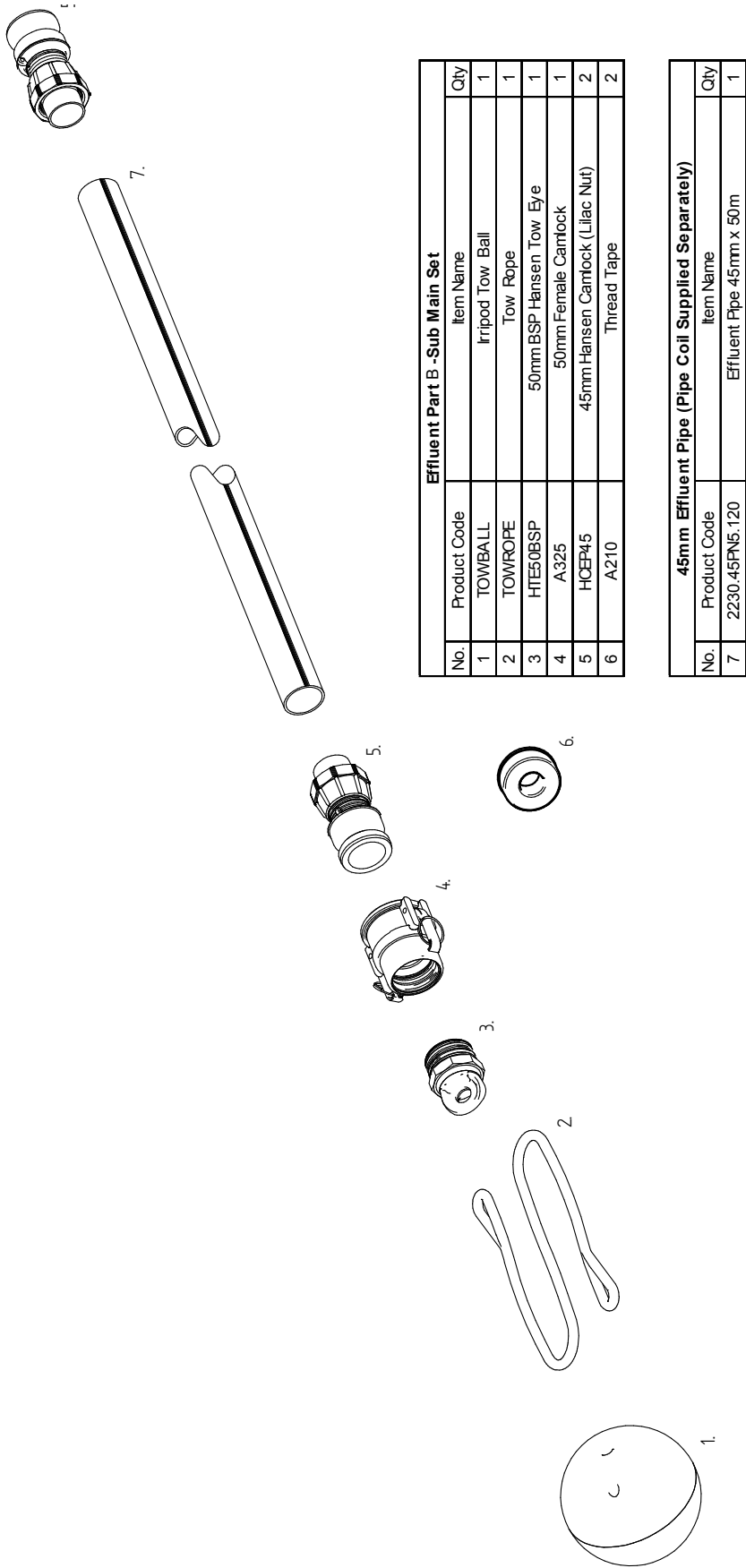


Effluent Part A - 90mm Adaptor Set



Effluent Part A - 90mm Adaptor Set			
No.	Product Code	Item Name	Qty
1	A325	50mm Female Camlock	1
2	SHN50	50mm Hansen Hex Nipple	2
3	HBV50L	50mm Hansen Ball Valve (Lilac Handle)	1
4	SRB10050	100 x 50mm Hansen Reducing Bush	1
5	SE100	100mm Hansen Female Elbow	1
6	SRB10080	100 x 80mm Hansen Reducing Bush	1
7	A327	80mm Male Camlock Thread Adaptor	1
8	A210	Thread Tape	2

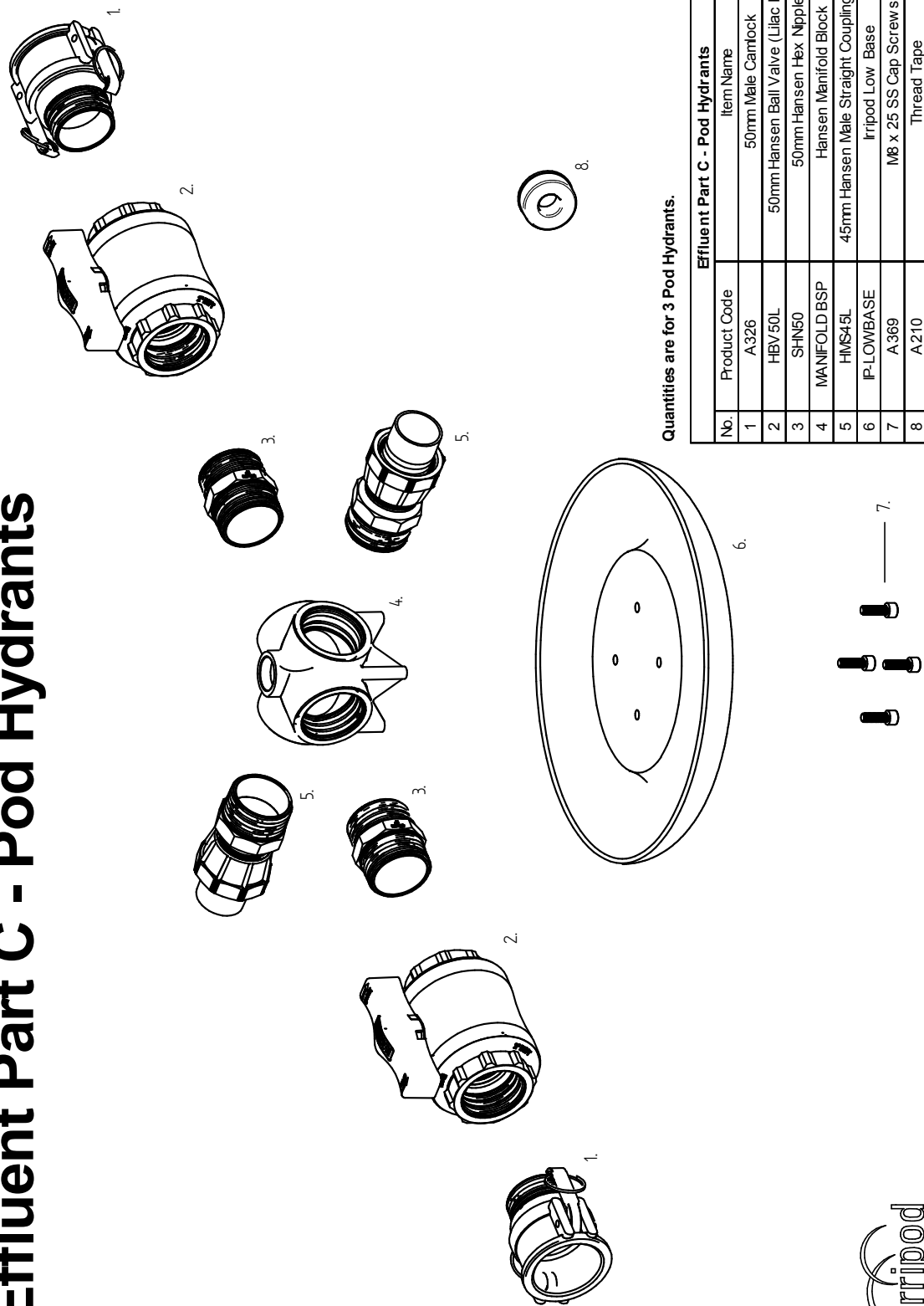
Effluent Part B - Sub Main Set



Pipe needs to be uncoiled and laid out at least 24 hours before use



Effluent Part C - Pod Hydrants



Quantities are for 3 Pod Hydrants.

Effluent Part C - Pod Hydrants			
No.	Product Code	Item Name	Qty
1	A326	50mm Male Camlock	6
2	HBV 50L	50mm Hansen Ball Valve (Lilac Handle)	6
3	SHN50	50mm Hansen Hex Nipple	6
4	MANIFOLD BSP	Hansen Manifold Block	3
5	HMS45L	45mm Hansen Male Straight Coupling (Lilac Nut)	6
6	IP-LOWBASE	Iripod Low Base	3
7	A369	M8 x 25 SS Cap Screws	12
8	A210	Thread Tape	3



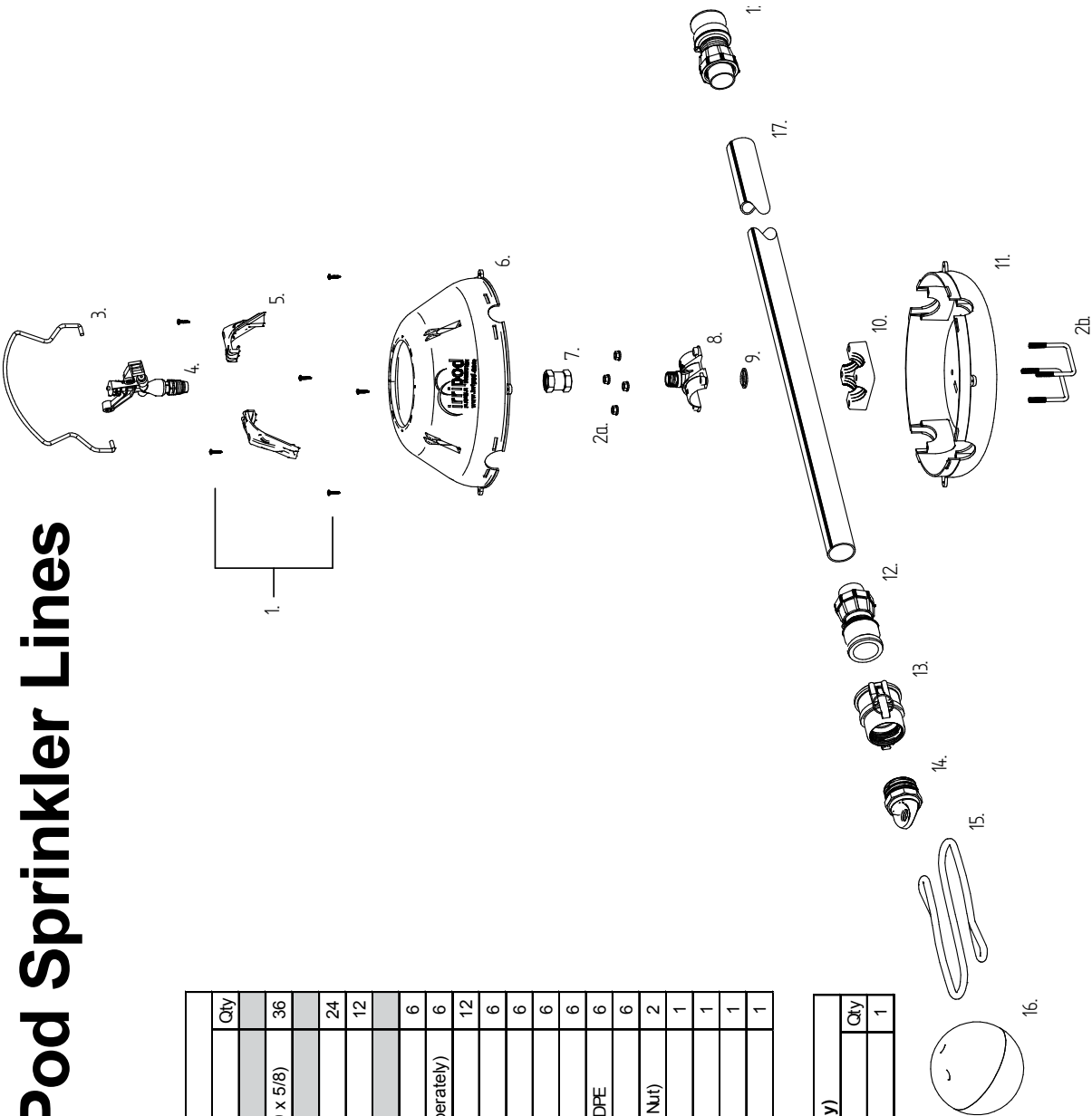
Effluent Part D - Pod Sprinkler Lines

Quantities are for 1 Pod Sprinkler Line (1 Carton).
PLEASE NOTE there are 3 cartons per Effluent System.

Effluent Part D - Pod Sprinkler Lines			
No.	Product Code	Item Name	Qty
	Screw Bag Contains		
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	36
	Bolt Bag Contains		
2a	IP-UBOLTS	M8 Flanged Nuts	24
2b	IP-UBOLTS	M8 U-Bolts	12
3	IP-WIRE	Iripod Wire Protector	6
4	A329	Senninger 4023 Sprinkler (Packed Separately)	6
5	IP-WIRECLIP	Iripod Wire Retainer Clips	12
6	IP-COVER-LI	Iripod Lilac Top Cover	6
7	SS20	20mm Hansen Socket	6
8	TST45LDL20M	45mm LD Low Riser	6
9	IP0701	IP-Seal	6
10	CTA40-45LD	Iripod Cross Tee Anchor 40-45 LDPE	6
11	IP-BASE-BLK	Iripod Black Base	6
12	HCEP45 (45)	45mm Hansen Camlock (with Lilac Nut)	2
13	A325	50mm Female Camlock	1
14	HTE50BSP	50mm BSP Hansen Tow Eye	1
15	TOWROPE	Tow Rope	1
16	TOWBALL	Iripod Tow Ball	1

Items 1, 2a-2b, 3, 5, 8 and 10 are included in TSK40-45LDU.

45m m Effluent Pipe (Pipe Coil Supplied Separately)		
No.	Product Code	Item Name
17	2230.45FN5.120	Effluent Pipe 45mm x 120m

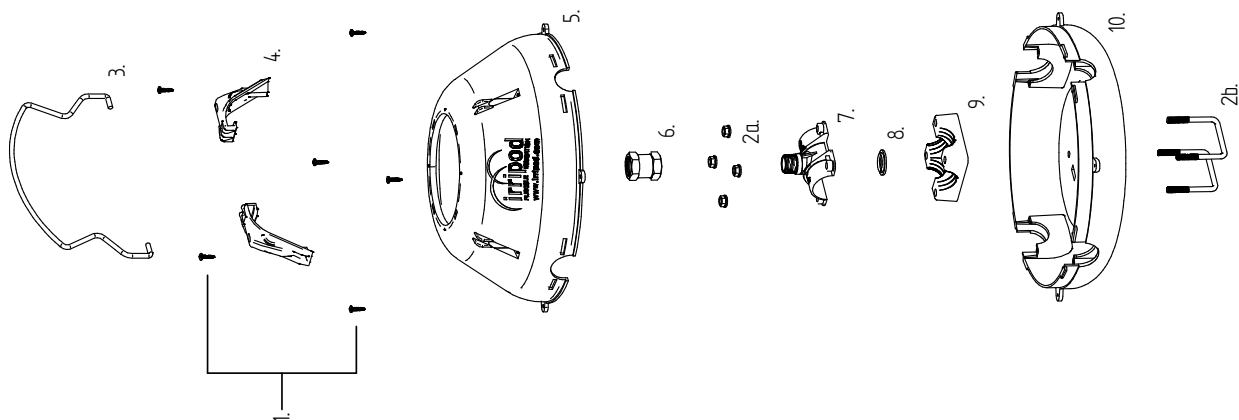


Pipe needs to be uncoiled and laid out at least 24 hours before use

Irripod 45mm Effluent Pod

Irripod 45mm Effluent Pod			
No.	Product Code	Item Name	Qty
1	IP-SCREWS	Medium Self Tapper (10 x 3/4) or (10 x 5/8)	6
		Bolt Bag Contains	
2a	IP-UBOLTS	M8 Flanged Nuts	4
2b	IP-UBOLTS	M8 U-Bolts	2
3	IP-WIRE	Irripod Wire Protector	1
4	IP-WIRECLIP	Irripod Wire Retainer Clips	2
5	IP-COVER-LI	Irripod LiIac Top Cover	1
6	SS20	20mm Hansen Socket	1
7	TST45LDL20M	45mm LD Low Riser	1
8	IP-SEAL	Seal	1
9	CTA40-45LD	Irripod Cross Tee Anchor 40-45 LDPE	1
10	IP-BA-SE-BLK	Irripod Black Base	1

Items 1, 2a-2b, 3, 4, 8 and 9 are included in TSK40-45LDU.



Irripod Features

HIGH QUALITY STRONG MATERIALS

High impact UV resistant polyethylene construction coupled with long life corrosion proof fastenings. Utilises a wide range of sprinklers to suit a variety of applications.

EASILY MOVED

Pod Lines are quickly & easily moved by ATV or farm vehicle.

STRONG WIRE PROTECTORS

help prevent pod rollover while shifting pods and protects the sprinkler.

MULTIPLE SPRINKLER OPTIONS

The Irripod system can adapt to a wide variety of 15mm (1/2") or 20mm (3/4") sprinkler types.

MULTIPLE CONFIGURATION OPTIONS

Irripod Irrigation systems produce a number of pod configurations to suit a variety of Irrigation & Effluent applications.

TOUGH 2 PIECE POD UNIT

For quick & easy assembly onto pipe. Pods do not need re-threading if one needs to be replaced.

O-RING SEAL AND SPIGOT

Tapping saddle O-Ring forms a leak proof bond with the pipe and the spigot holds the pod in place so it doesn't slip on the pipe.

4 BOLT TAPPING SADDLE

Creates extra strong mounting of sprinkler to base. Enables accurate positioning when mounting sprinkler.

STOCK FRIENDLY

Sprinklers can be run in the same field live stock are in.

Flexible Low Application Pod Irrigation System

Irrigation



Best Installed Value

SECTION NINETEEN

TECHNICAL SPECIFICATIONS



Irrigation
Mini Sprinklers

The HANSEN MINI SPRINKLER has great resistance to blocking as it has full volume right to the distribution jets. It will fit pots from 100mm (4 inches) to 600mm (2 feet) diameter, The unique angle of water spray is 30°, ensuring that once height is set with the sprinkler mounted on the stake, pressure variations will not cause water to spray out of the pots.

Using the HANSEN MINI SPRINKLER prevents water drops on flower blooms and liquid feed burns. Little if any water on leaves or in crown of plants overnight, reduces cause of bulb or new growth rot.

WATER LOSS MINIMISED

Plants can be watered very slowly with small volumes ensuring no runoff. This prevents accumulation of water on the floor which reduces humidity during flower season. As all water used is directed onto the plant, up to 30% savings could be achieved on water and nutrient usage.

TEMPERATURE CONTROL

The HANSEN MINI SPRINKLER can be used in the summer months to cool plant roots and help initiate spiking.

EASY CLEANING

The jets can be cleaned by loosening the cap, allowing water to flush across the face of the slots, while the sprinkler is operating.

APPLICATIONS

- Orchids & Flowers
- Glasshouse Crops
- Gardens
- Landscaping
- Offices & Commercial Buildings
- Display Pot Plants

FEATURES

- Unique Patented Design
- 2 Park Sprinkler
- Quick Cleaning
- Full circle Spray
- Volume delivered per plant by variation of pressure
- Will fit any size pot
- Very low volume - .15 litre/minute at 70 kPa/10 psi
- Operating pressure range - 50 kPa/7psi - 200 kPa/30 psi
- Optimum operating pressure - 100 kPa/15 psi - 170 kPa/25 psi



HPS 63
(6 Slot Blue)



HPS 83
(6 Slot Yellow)

Model (Colour)	kPa/psi	Litres / Min	Litres / Hour
HP63 Blue	70/10	0.15	9
	100/15	0.25	15
	170/25	0.30	18
HP83 Yellow	70/100	0.25	15
	100/15	0.35	21
	170/25	0.50	30

Lateral Tube Diameter	Number of Sprinklers per Lateral	Number of Sprinklers per Main
	Yellow Blue	
13mm 1/2"	20 25 50 kPa/7psi	40mm 1 1/2" 1200 Blue
19mm 3/4"	175 130 70 kPa/10psi	40mm 1 1/2" 1000 Yellow

NOTE: Low density polyethylene should be used for supply line and thin wall polyethylene used for lateral tubing

Irrigation Post Risers

APPLICATIONS

- Used in vegetable, orchard, pasture and domestic irrigation systems
- For any post top sprinkler application;
 1. Above canopy system
 2. Frost protection system
 3. Solid set system

FEATURES AND BENEFITS

- Easy and fast to install
- One piece post riser – no parts to add during installation
- The bottom post bracket is fixed, with the top post bracket being fully adjustable - allowing easy and controlled attachment to any post shape
- Captive post brackets only require two hands to install
- Fastest riser of its kind on the market to install
- Hansen Glass Fibre Reinforced Nylon quality
- U.V. resistant
- Very strong

INSTALLATION

1. Screw the bottom post bracket to the correct position on the post
2. Adjust the top post bracket to the best position on the post then attach screws
3. Connect the pipe to the Hansen poly end fitting (refer to Easy Fit PipeFitting instructions)
4. Attach sprinkler/Valve/Socket etc depending on thread configuration. Use a thread sealant on all threaded connections. We recommend Loctite 5331.

Attention – Step 4 may need to precede Step 1 depending on Valve/Sprinkler position to post top!!!

FREQUENTLY ASKED QUESTIONS

Q What pipe will it fit the Hansen Post Riser?

A The post riser has a Hansen Easy Fit fitting on the inlet in 20mm (3/4") to fit low density and lateral poly pipe.

Q Do I need a flat faced post to install?

A No, because the top screw bracket can move vertically and swivel horizontally it will fit any post face

Q Is the Hansen Post Riser U.V. resistant?

A Yes just the same as all Hansen fittings and valves they are U.V. stabilised

Q What top thread is on the Hansen Post Riser?

A The post riser carries a male 20mm (3/4") BSPT thread

Post Risers Chemical Resistance Chart

CHEMICAL TYPE	RESISTANCE LEVEL		
	Good	OK But Check Further	BAD Try to Avoid
Acids Weak			X
Acids Strong			X
Organic Acids Weak		X	
Organic Acids Strong			X
Bases Weak	X		
Bases Strong		X	
Bleach			X
CHEMICAL TYPE	RESISTANCE LEVEL		
Automotive Fuel	X		
Automotive Lubricants	X		
Hydraulic Fluids	X		
CHEMICAL TYPE	RESISTANCE LEVEL		
Solvents		X	
Hydrocarbons	X		
Halogens			X
Alcohols		X	
Aldehydes			X
Amines			X
Esters	X		
Ethers	X		
Ketones		X	
CHEMICAL TYPE	RESISTANCE LEVEL		
Detergents	X		
Oxidising Agents			X
Weak Hydrogen Peroxide		X	
Phenols			X

PLEASE NOTE: This chart is intended as a basic guide only. The resistance to a given chemical will vary with temperature & concentrations. Some chemicals within the group mentioned may result in different rating. For further information, please email us with your specific question.

LEGAL INFORMATION & APPROVALS

Warranty

Hansen Limited Lifetime Warranty

NOTICE: By installing this Hansen product, the Customer acknowledges its acceptance of the terms of this limited lifetime warranty in all respects. If for any reason the Customer does not accept the terms of this limited warranty, the Customer should return the Hansen product in its original packaging for a full refund.

Hansen Products Limited ("Hansen") warrants each Hansen product ("Product") to the original customer ("Customer") against defects in materials and workmanship. The warranty runs for the life of the Product.

This is a parts only warranty. The Customer is responsible for disassembling, reassembling and reinstalling the Product. Hansen shall not be responsible or liable for the cost of field labour or other charges incurred by the Customer in removing and/or reaffixing any Product, part or component thereof.

To make a warranty claim, the Customer should contact Hansen at the address below. Hansen may instruct the Customer to send the Product to an authorised Hansen agent. The Product should be securely packaged and sent free of any attachments (e.g. pipe, couplings, brackets and mounting fittings) unless otherwise instructed. Along with the Product returned, the Customer should include a detailed explanation of the defect along with proof of purchase (if requested).

The Customer shall bear the freight cost to ship the Product to Hansen or its authorised agent. Hansen shall bear the freight cost to ship the Product back to the Customer.

Hansen shall fairly evaluate a warranty claim. If Hansen accepts the claim, it will replace the Product. If for any reason Hansen does not wish to replace the Product, it shall refund the Purchase Price. Hansen's liability shall not exceed the purchase price of the Product.

Hansen's sole responsibility is to replace a Product that is the subject of a valid warranty claim or to refund the purchase price. Under no circumstance will Hansen be liable for direct, indirect, incidental, special or consequential losses, costs or damages, including dismantling and re-installation costs, damage to other property and equipment, water loss or water damage.

This warranty is void in any of the following circumstances: (a) The Product has been misused, mishandled, neglected or abused. (b) The Product is not suitable for the Customer's application. (c) The Product has been improperly installed, operated, repaired, adjusted, serviced or maintained. (d) The Product has been damaged other than by reason of a Product defect. (e) The Product has been modified. (f) The Product has been connected to other equipment with which it is not compatible. (g) The Product has been used outside its stated specifications, and operating parameters, including specifications and operating parameters relating to capacity, temperature and pressure. (h) The Product has been used for purposes other than for which it was designed.

If the Product is off-warranty or otherwise not subject to a valid warranty claim, Hansen will replace the Product at the Customer's cost.

Many factors can cause a Product not to function properly. Such factors may have nothing to do with the Product itself (e.g. pipe failure). Before making a warranty claim, the Customer should make sure that the Product is truly defective. That is to say, the Customer should have followed standard trouble shooting and fault finding procedures and attributed the problem to a defect in the Product. Refer to the technical documentation on the Hansen website. If necessary, contact Hansen for technical support. If Hansen determines that a returned Product was not defective, or that the

warranty claim was otherwise not valid, Hansen shall charge the Customer a service and handling fee as well as the freight cost.

This warranty applies to Hansen Products only. It does not apply to ancillary equipment over which Hansen has no control. Such ancillary equipment includes, without limitation, other plumbing equipment, pipes, hoses and fittings.

Hansen Products are capable of being used in many different types of applications and operating environments. Therefore, proper selection of a specific Product for a specific application and operating environment, and its compatibility with other equipment to which it is attached, is the Customer's responsibility. The Customer must assume the ultimate responsibility for the proper sizing, selection, compatibility, installation and operation of Hansen Products. Hansen does not warrant the performance of Hansen Products or their suitability for a particular purpose. It is the Customer's responsibility to determine the suitability of Hansen Products for the Customer's use.

Installation is entirely at the Customer's risk. The Customer is responsible for installing the Product in accordance with Hansen's installation instructions and applicable local codes, ordinances and good trade practices. Hansen accepts no liability for damages resulting from faulty installation.

Hansen accepts no liability for direct, indirect, incidental, special, or consequential damages resulting from the Customer's failure to follow Hansen's warnings, installation instructions and procedures or such other procedures generally applicable to products of the same type. The foregoing limitation extends to damages to person or property as well as the cost of alternative arrangements and the cost of trades people.

Hansen reserves the right to change or improve its Products or any component thereof without being obligated to provide such a change or improvement for Products sold and/or shipped prior to such change or improvement.

No warranties or representations at any time made by any representative of Hansen Products shall vary or expand the provisions hereof. Notwithstanding the foregoing, this warranty, being a generic warranty covering all Hansen Products, shall not apply in circumstances where Hansen or its authorised reseller gives a specific warranty for a specific Hansen Product.

This is an express warranty. Hansen disclaims any other express or implied warranties, including warranties of merchant ability or fitness for purpose, to the maximum extent permitted by law.

Some jurisdictions do not allow limitations or disclaimers of implied or statutory warranties. Some jurisdictions do not allow disclaimers or exclusions of consequential or incidental damages. Therefore, the above disclaimers, limitations and exclusions may not apply in all jurisdictions in which Hansen sells Hansen Products. As to any jurisdiction in which one or more clauses in this warranty are unenforceable, this warranty shall be deemed modified, and the offending clauses amended or removed, but only to the extent necessary to bring this warranty into conformity with the laws in such jurisdiction. The invalidity of any clause in this warranty shall not affect the validity of any other clause.

This warranty gives the Customer specific legal rights. The Customer may have other rights or remedies pursuant to the laws in its territory. Nothing in this limited warranty should be construed as limiting or restricting any other statutory right or remedy of the Customer, except for such limitations or restrictions herein as may be allowed by the law of the territory.

Hansen's has obtained the following approvals

ISO

Hansen Products (NZ) Limited are justifiably proud to be certified to ISO 9001:2008 by Telarc SAI Certifying Authority. ISO 9001:2008 is a Quality Management System which aids to increase the efficiency and effectiveness of any organisation, to manage the processes and activities used to eliminate risk to the customer and to ensure that its products and service conform to customer requirements, thus ensuring customer satisfaction. The ISO 9001 definition of "quality" refers to all the features of a suppliers product and service, which are required by the customer.

As part of ISO Certification, a fully documented quality system must be in place which is audited by an approved accreditation body at planned intervals (usually every 6 months). These audits ensure that the system is being implemented and followed. Every 3 years a recertification audit is conducted.

Internally our Process covers internal audits of the system. Inspections have been implemented at the following stages of manufacture; goods inwards, first off, in process, final, and customer return analysis. Non-conformances are checked to ensure corrective actions are taken and are the actions effective. The system covers training, that all processing is fully documented, that work instructions are available for all tasks, that all documentation is controlled, and customer requirements are clear.

We are certified for the design, manufacture, assembly, packaging, distribution and marketing of our products.

WRAS

WRAS formerly known to the industry as WRC. WRAS approval means that HANSEN™ Threaded Pipe Fittings are approved for use with potable (drinkable) water, and that they will not leach contaminants into the water. The Water Research Council in the UK is the highest recognised water testing organisation in the world and we believe HANSEN™ are the only plastic threaded pipe fitting in Australasia to achieve this standard.

The Product and Assessment Group of the Scheme finds that the use of these fittings or units, when correctly installed, will not contravene the

requirements of The Water Supply (Water Fittings) Regulations 1999, The Water Byelaws 2004 Scotland or the Water Regulations (Northern Ireland) 1991 and that a reference to the fittings or units will be included in the Scheme's Water Fittings and Material Directory.

To see the range of Hansen Fittings that have been approved by WRAS please go to our website www.hansenproducts.com/approvals

AS/NZS 4020

AS/NZS 4020 - Testing of products for use in contact with drinking water.

- Determines the methods used and the measure of compliance for the effects of a product on the taste and appearance of water.
- Determines the ability of a product to support the growth of micro-organisms and the quantity of toxic metallic and non metallic substances leached from the product when exposed to the test water.

HANSEN™ Easy Fit Poly Fittings in sizes 15mm to 50mm (1/2" to 2"), Easy Fit Compression Fittings in sizes 16mm to 110mm (1/2" to 4") True Fit Threaded Fittings in sizes 6mm to 100mm (1/8" to 4"), True Fit Tank Fittings in sizes 6mm to 100mm (1/8" to 4"), Quick Connect Unions in sizes 15mm to 50mm (1/2" to 2"), Quick Couplings in sizes 20mm to 32mm (3/4" to 1 1/4"), Full Flow Ball Valves, Foot Valves & Check Valves have been AS/NZS 4020 approved and meet the above standard as tested by an independent testing authority, the Australian Water Quality Centre.

WATERMARK APPROVAL

WaterMark Certificate of Conformity – Level 1 - Evaluated to: AS/NZS 4129:2008 - Fittings for polyethylene (PE) pipes for pressure applications
Certification No: WMKA21978

The WaterMark™ Certification Scheme is a certification scheme for plumbing and drainage products to ensure that plumbing and drainage materials and products are fit for purpose and appropriately authorized for use in plumbing installations. It also provides a uniform national approach to plumbing product approvals. The plumbing industry in

Australia & New Zealand supports the use of the WaterMark™ which, when used properly, is an excellent way of helping consumers be confident about the quality of the plumbing product to which it is applied. Material and product failures in plumbing systems can cause contamination of the water system and be a public health concern. Under the Scheme, Hansen Easy Fit Compression Fittings carry the WaterMark approval and are accepted for use in all Australian states and territories & throughout New Zealand - subject to correct installation practices in accordance with AS/NZS 3500 and any local deviations.

The procedures and technical requirements of this scheme are identified in:

AS 5200.000-2006 Technical specification for plumbing and drainage products - Procedures for certification of plumbing and drainage products.

The Watermark Certification at Hansen is achieved through:

- Testing by a recognised testing laboratory;
- Comply with an approved specification (WaterMark Technical Specification);
- Is manufactured in accordance with an approved Quality Assurance Program
- Carries a warranty

IMCI

Hansen Ball Valves have been approved by the International Marine Certification Institute to ISO standard 9093-2 and meets the requirements of the Recreational Craft Directive 94/25/EC meaning that it is safe to use in salt water environments.

See our website for further details.

Wellington Water

Hansen Easy Fit Compression Fittings are approved to be used in all municipal water supply construction and maintenance activities within the Lower Hutt and Upper Hutt Cities. Only approved products are allowed to be incorporated into works that are carried out on, or are intended to be vested to, the public water supply network.

Legal Information

The products in this catalogue are protected by intellectual property rights owned by Hansen group of companies in New Zealand, Australia and other countries, including patents, registered designs, copyright and other rights. HANSEN is a trademark of the Hansen group of companies.

COMPRESSION FITTINGS

The Compression Fittings in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand and Australia, including NZ patent 331851 and Australian patent 711022. HANSEN is a trade mark of the Hansen group of companies.

KNUCKLE UNION

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FAST-FLO TROUGH / TANK VALVE

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SUPER-FLO TROUGH VALVE

The Super-Flo Valves in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand and pending in other countries, including NZ patent 585246/585472/591800 and registered design 413594, and Australian patent application 2011202147 and registered design 334419. HANSEN is a trade mark of the Hansen group of companies.

MAX-FLO TROUGH/TANK VALVE

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CHECK VALVE

The Check Valves in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia and other countries, including NZ patents 286543/299570 and 331955 and registered design 29440, Australian patent 708382 and registered design 138753, United States patent 6,374,855 and registered design 42661, United Kingdom registered design 2079841, Malaysian patent MY-0119324-A, Israeli patent 126944 and Canadian patent 2253848. HANSEN is a trade mark of the Hansen group of companies.

HAN-TOOL

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NZ patent 609364 and registered design 417500 and Australian patent 2013204330 and registered design 351876. HANSEN is a trade mark of the Hansen group of companies.

BALL VALVE

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FOOT VALVE

The Foot Valves in this catalogue are protected by intellectual property rights owned by the Hansen group of companies in New Zealand, Australia and other countries, including NZ patents 286543/299570 and 331955, Australian patent 708382 and registered design 130517, United States patent 6,374,855 and registered design 40928, United Kingdom registered design 2060768, Israeli patent 126944 and registered design 27004, Malaysian patent MY-0119324-A, Canadian patent 2253848, Mexican registered design 10057, Argentinean registered design 64021, Spanish registered design 138.703/0, French registered design 96.63, Brazilian registered design 5601769-3, Italian registered design 00072187, German registered design 9609969.0 and Benelux Convention registered design 27793-00. HANSEN is a trade mark of the Hansen group of companies.

TAPPING SADDLE

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LEVEL ALERT

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LEVELLER VALVE

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Quick Connect Unions

HANSENtm

Best Installed Value

Threaded Fittings

www.hansenproducts.com