• CUSTOMER SERVICE • INNOVATION • MANUFACTURING • QUALITY • TECHNICAL EXPERTISE • EXCELLENCE • DESIGN •

DIXON

The Right Connection™

Oil & Petrochemical Products

Customer Service: **+44 (0)1772 323529**

Email: **sales@dixoneurope.co.uk**

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The Right Connection™

The Petrochemical Life Cycle

Dixon Products for Safe & Reliable Fluid Transfer

TERMINAL ROAD RETAIL

Transportation & Overfill Prevention - Dixon Bayco™

Fire Products - Dixon Powhatan

Permanently Attached Couplings - Holedall® System

A101AS-T3 Black Anti-Static Air/Water Hose 20 bar to BS ISO 2878:2011

Application:	Extruded construction all rubber anti-static hose meeting the requirements of BS ISO 2878:2011 which replaces BS 2050:1978, with conductivity between liner and cover. It is used widely in the offshore oil and gas industry where maintenance using compressors and air driven plant and equipment in a spark free environment is crucial. Pressure and general construction standards to BS EN ISO 2398:2008 and the old BS5118/2:1975.
Size range:	1/4" - 1" (6mm - 25mm).
Working pressure:	20 bar (300psi), safety factor 3:1.
Lining:	Black synthetic rubber, oil mist resistant.
Reinforcement:	High strength textile yarn.
Cover:	Black synthetic rubber, ozone and weather resistant.
Temperature range:	-20°C to +80°C.

A101HP Black Air/Water Hose 20 bar

Application:	General purpose extruded construction all rubber black air/water hose. Suited to a variety of air and water applications in agriculture, construction, plant hire, civil engineering, mining and quarrying. Pressure and general construction standards to BS EN ISO 2398:2008 and the old BS5118/2:1975.
Size Range:	1/4" - 1" (6mm - 25mm).
Working pressure:	20 bar (300psi), safety factor 3:1.
Lining:	Black SBR rubber, oil mist resistant.
Reinforcement:	High strength textile yarn.
Cover:	Black SBR rubber, ozone and weather resistant.
Temperature range:	-20°C to +80°C.

RUBBER HOSES AVAILABLE IN A RANGE OF COLOURS – CONTACT THE SALES OFFICE FOR MORE INFORMATION

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Telephone: **+44 (0)1772 323529** Email: **sales@dixoneurope.co.uk**

A102HP Yellow Air/Water Hose 20 bar

Application:	General purpose extruded construction all rubber yellow air/water hose. Suited to a variety of air and water applications in agriculture, construction, plant hire, civil engineering, mining and quarrying. Pressure and general construction standards to BS EN ISO 2398:2008 and the old BS5118/2:1975
Size Range:	1/2" - 1" (13mm - 25mm).
Working pressure:	20 bar (300psi), safety factor 3:1.
Lining:	Black SBR, oil mist resistant.
Reinforcement:	High strength textile yarn.
Cover:	Yellow SBR, ozone and weather resistant.
Temperature range:	-20°C to +80°C.

A190 Super Air/Water Hose 20 bar

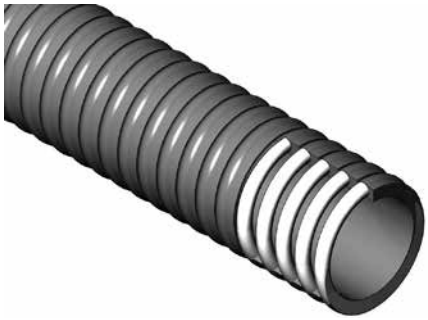
Application:	High quality black or yellow air/water hose, mandrel construction. Suited to a variety of air and water applications in construction, plant hire, civil engineering, mining and quarrying where a more robust, durable hose is required. Pressure and general construction standards to BS EN ISO 2398:2008 and the old BS5118/2:1975.
Size Range:	1/2" - 3" (13mm - 76mm).
Working pressure:	20 bar (300psi), safety factor 3:1.
Lining:	Black SBR, oil mist resistant.
Reinforcement:	High strength textile yarn.
Cover:	Black or yellow SBR, ozone and weather resistant.
Temperature range:	-35°C to +80°C.

A210 Water Suction and Delivery Hose 10 bar

Application:	General heavy-duty suction and discharge of water and mild water borne slurries. Commonly used on centrifugal and diaphragm pumps throughout a wide range of industries. Can be used with waste water with 5-10 pH.
Size Range:	1 1/2" - 6" (38mm - 152mm).
Working pressure:	10 bar (150psi), safety factor 3:1. Vacuum 1 bar.
Lining:	Black SBR.
Reinforcement:	High strength textile yarn and high tensile carbon steel helix.
Cover:	Black SBR, ozone and weather resistant.
Temperature range:	-35°C to +80°C.

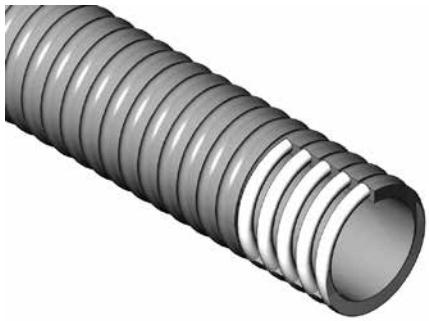
FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Irribulk M Green Spiral PVC Suction and Delivery Hose



Application:	Medium duty spiral pvc hose used in agriculture, construction, plant hire, and water utilities etc. for the suction and delivery of water, slurries, grain, animal feed and other solids whether on plant or tankers. Can also be used on diluted chemicals.
Size Range:	1” - 6” (25mm - 152mm).
Working pressure:	8 bar (116psi) to 3.3 bar (48psi). Safety factor 3:1 and vacuum 0.78 bar to 0.60 bar depending on bore size. Ratings @ 23°C, +/- 2°C.
Construction:	Olive green soft pvc with embedded shock resistant semi-rigid white pvc spiral helix.
Temperature range:	-15°C to + 60°C.

Delvac Green Tinted Spiral PVC Suction and Delivery Hose



Application:	This lighter duty spiral pvc hose is used in agriculture, construction, plant hire, and water utilities etc. for the light suction and delivery of water, slurries whether on plant or tankers. Can also be used on diluted chemicals.
Size Range:	3/4” - 6” (19mm - 152mm).
Working pressure:	9 bar (130psi) to 6 bar (87psi). Safety factor 3:1 and vacuum 0.70 bar. Ratings @ 23°C, +/- 2°C.
Construction:	Transparent green soft pvc with embedded shock resistant semi-rigid white pvc spiral helix.
Temperature range:	-15°C to + 60°C.

PREMflex Super Elastic Spiral PVC Suction and Delivery Hose

Application:	This premium quality medium duty super elastic (MDSE) spiral pvc hose is suitable for most suction and delivery applications in conveying chemical solutions, abrasive slurries and solids such as grain, animal feeds and small aggregate. Provides exceptional low temperature flexibility and low friction/abrasion when dragged across surfaces.
Size Range:	1 1/2” - 6” (38mm - 152mm).
Working pressure:	5.3 bar (77psi) to 3.3 bar (48psi). Safety factor 3:1 and vacuum 0.90 bar. Ratings @ 23°C, +/- 2°C.
Construction:	Grey specially compounded super elastic pvc with semi embedded rigid blue pvc spiral helix.
Temperature range:	-25°C to + 65°C.

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Telephone: **+44 (0)1772 323529** Email: **sales@dixoneurope.co.uk**

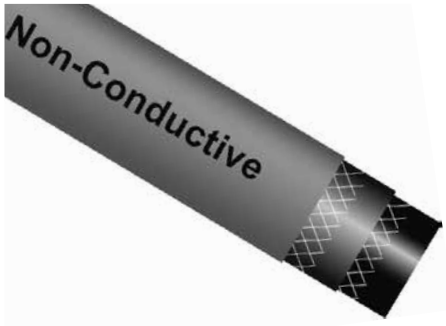
A430 - Oil Suction and Delivery Hose 10 bar

Application:	Designed for suction and discharge use on various petroleum products with upto 50% aromatic content, whether in plant or on tankers. Is suitable for handling unleaded fuels and hydraulic oils in return lines and wet diesel exhaust.
Size Range:	3/4" - 6" (19mm - 152mm).
Working pressure:	10 bar (150psi), safety factor 3:1. Vacuum I bar.
Lining:	Black NBR for 50% aromatics.
Reinforcement:	High strength textile yarn, high tensile carbon steel helix and copper anti-static wire.
Cover:	Black CR oil, ozone and weather resistant.
Temperature range: -	-30°C to +80°C.

Heavy Duty A400EU Heavy Duty Oil, Mud & Seawater Hose 20 Bar

Application:	Designed for suction and discharge use on various petroleum products with upto 50% aromatic content. Also suited to handling seawater, mud and general offshore applications and bunkering.
Size Range:	3" - 8" (76mm - 203mm).
Working pressure:	20 bar (300psi), safety factor 4:1. Vacuum 0.90 bar to 0.70 bar depending on bore size.
Lining:	Black NBR for 50% aromatics.
Reinforcement:	High strength textile yarn, high tensile carbon steel.
Cover:	Black CR oil, ozone and weather resistant.
Temperature range: -	-30°C to +80°C.

A104 Red Multi-Purpose Non-Conductive Hose



Application:	Multi-purpose hose suitable for use in steel works, foundries, auto plants, general engineering and construction for conveying and de-canting a broad range of oils, greases and solvents (OGS). **If in doubt on compatibility of solvents please refer to the Dixon sales office.**
Size Range:	1/4" - 2" (6mm - 51mm)
Working pressure:	20 bar (300psi) to 14 bar (200psi) depending on.
Lining:	Black NBR.
Reinforcement:	High strength textile yarn.
Cover:	Red nitrile blend, oil, solvent, abrasion and ozone resistant.
Temperature range:	-20°C to +100°C.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

A901 (GG) Composite Oil Hose 14 bar

Application:	This anti-static composite hose is designed for suction and discharge use on plant or road/rail tankers with a wide range of hydrocarbons where 100% aromatic resistance is required. The hose construction is exceptionally lightweight and flexible for ease of handling yet remains robust, hardwearing and cost effective. Hose and assembling specification in accordance with BS EN 13765: 2010. Electrically resistant to less than 10 ohms, as required by BS 5842: 1980 clause 6.2.
Size Range:	1” - 4” (25mm - 100mm).
Working pressure:	14 bar (203 psi), safety factor 4:1. Vacuum 0.90 bar.
Hose construction:	Polypropylene and Polyethylene films and fabrics with **black** weather-proof and abrasion resistant outer cover wrapped and tensioned between internal and external wire spirals. Inner and outer wire spiral, galvanised carbon steel (GG).
Temperature range:	-30°C to +80°C.

A906 (PG) Composite Chemical Hose 14 bar

Application:	This anti-static composite hose is designed for suction and discharge use on plant or road/rail tankers with a wide range of chemicals. The hose construction is exceptionally lightweight and flexible for ease of handling yet remains robust, hardwearing and cost effective. Hose and assembling specification in accordance with BS EN 13765: 2010. Electrically resistant to less than 10 ohms, as required by BS 5842: 1980 clause 6.2.
Size Range:	1” - 4” (25mm - 100mm).
Working pressure:	14 bar (203 psi), safety factor 4:1. Vacuum 0.90 bar.
Hose construction:	Polypropylene and polyethylene films and fabrics with **grey** weather-proof and abrasion resistant outer cover wrapped and tensioned between internal and external wire spirals. Inner wire spiral, polypropylene coated mild steel (P), outer wire spiral galvanised carbon steel (G). **Other wire combinations available are.** **A906PS (P = polypropylene coated carbon steel internal wire, S = stainless steel external wire with green marker stripe to denote stainless steel external wire.**
Temperature range:	-30°C to +80°C.

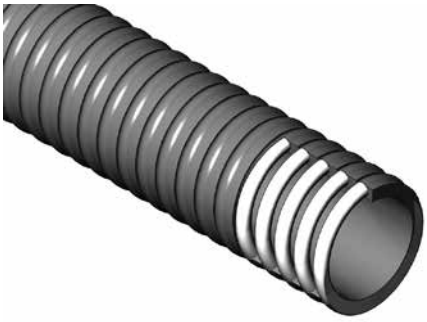
FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Telephone: **+44 (0)1772 323529** Email: **sales@dixoneurope.co.uk**

A911 (SG) Composite PTFE Chemical Hose 14 bar

Application:	This anti-static PTFE lined composite hose is designed for suction and discharge use on plant or road/rail tankers with a wide range of aggressive chemicals or foods. The hose construction is exceptionally lightweight and flexible for ease of handling yet remains robust, hardwearing and cost effective. Hose and assembling specification in accordance with BS EN 13765: 2010. Electrically resistant to less than 10 ohms, as required by BS 5842: 1980 clause 6.2.
Working pressure:	14 bar (203 psi), safety factor 4:1. Vacuum 0.90 bar.
Hose construction:	PTFE lined with polypropylene and polyethylene films and fabrics with red weather-proof and abrasion resistant outer cover wrapped and tensioned between internal and external wire spirals. Internal wire spiral, stainless steel (S), external wire spiral, galvanised carbon steel (G). **Other wire combinations available are.** **A911SS (S = stainless steel internal and external wires) with green marker stripe to denote stainless steel external wire.**
Temperature range:	-30°C to +115°C.

Baku Oil Blue Spiral PVC Suction and Delivery Hose



Application:	Suitable for light suction and delivery of fuel oils with a low aromatic whether used in applications on plant or tankers. These include lubricating oils, hydraulic oils, diesel, kerosene, white spirit and other petroleum derivatives.
Size Range:	1” - 6” (25mm -152mm).
Working pressure:	9.7 bar (140psi) to 2 bar (29psi). Safety factor 3:1. Vacuum 0.88 bar to 0.78 bar depending on bore size. Ratings @ 23°C, +/- 2°C.
Construction:	Blue soft nitrided pvc with embedded shock resistant semi-rigid white pvc spiral helix.
Temperature range:	-15°C to + 60°C.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

A410 UHMWPE Chemical Suction and Delivery Hose 10 bar

Application:	Designed for suction and discharge use on a wide range of chemicals and acids on plant or road/rail tanker.
Size Range:	3/4" - 4" (19mm -102mm).
Working pressure:	10 bar (150psi), safety factor 4:1. Vacuum 0.93 bar.
Lining:	Black ultra high molecular weight polyethylene (UHMWPE).
Reinforcement:	High strength textile yarn, high tensile carbon steel helix and copper anti-static wires.
Cover:	Blue EPDM chemical ozone and weather resistant.
Temperature range:	-35°C to +100°C. For short periods UHMWPE can also resist steam up to 130°C, **but please note it has a melting temperature of 135°C. IF IN DOUBT PLEASE CONSULT OUR SALES OFFICE.**

A230 - Red Steam Hose to BS5342:1986: A2 18 bar

Application:	Steam hose for handling SUPERHEATED STEAM and manufactured in accordance with BS5342:1986:A2. Widely used in petrochemical plants/refineries for maintenance and pipe insulation during freezing weather conditions. Avoid excessive contamination with oil
Size Range:	1/2" - 2" (13mm -51mm).
Working pressure:	18 bar (261 psi). Safety factor 10:1.
Lining:	Extruded black EPDM.
Reinforcement:	High tensile brass coated stranded steel wire.
Cover:	Red EPDM, pin pricked.
Temperature range:	-20°C to + 210°C and intermittent to 232°C.

STEAM IS DANGEROUS.

WE STRONGLY RECOMMEND THE USE OF GENUINE DIXON BOSS STEAM COUPLINGS & CLAMPS.

DO NOT COMPROMISE SAFETY.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

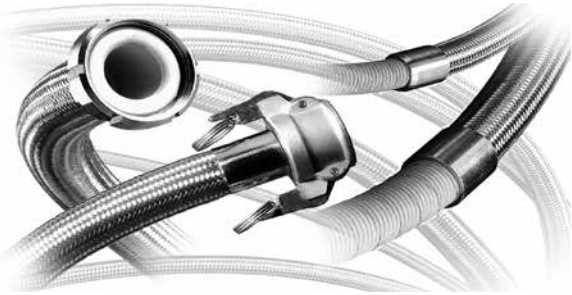
Telephone: **+44 (0)1772 323529** Email: **sales@dixoneurope.co.uk**

Flexible Convoluted & Smooth Bore PTFE

The Dixon range of smooth and convoluted PTFE hose and hose assemblies are available from 1/4 inch through to 1 inch and 3/8 inch to 4 inch respectively.

San-flon meets the FDA (the U.S. Federal Food & Drug Administration) regulations governing the use of articles, or components of articles, for use in contact with food. FDA regulation compliant parts are – 21 CFR 177.1550, 21 CFR 177.1520, 21 CFR 177.2600, 21 CFR 175.300, 21 CFR 175.105, 21 CFR 176.170, 21 CFR 176.180. It is also recognised by the standards as regulated by the U.S. Pharmacopeia Class VI and has material approval by WRAS (Water Regulations Advisory Scheme), meeting the requirements of BS 6920-1:2000. Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water.

San-flon Hose is available as virgin convoluted or smooth bore PTFE or with a covering. A range of outer coverings including metallic, glass fibre and polymer braid are available. Bounce Ring Protectors and Spiral Guards can be fitted.



All hoses are tested 150 p.s.i air under water and can be supplied with a wide range of certification if required.

We can also make your specialist requirements such as heat traced and duplex assemblies.

Antistatic liners are available for when electrically resistive fluids are being transferred at high flow rates.

San-flon - smooth bore	
Description	Smooth white virgin PTFE, with AISI 304S15 stainless steel wire overbraid.
Size range:	¼” to 1” (6mm to 25mm).
Pressure range:	¼”/6mm = 241 bar (3495 psi), 1”/25mm = 69 bar (1000 psi).
Temperature range:	-60°C to 260°C.

San-flon - convoluted bore	
Description:	Convoluted standard wall white virgin PTFE, with AISI 304S15 stainless steel wire overbraid.
Size range:	⅜” to 4” (9mm to 102mm).
Pressure range:	⅜”/9mm = 138 bar (2000 psi), 4”/102mm = 15 bar (217 psi).
Temperature range:	-60°C to 260°C.

Also available with :

- Polymer overbraid
- Secial glass fibre or rubber covers
- Grade 304 stainless steel reinforcing wire for improved flexibility and resistance to vacuum
- Carbon black antistatic liners to BS5958 Part 2, 1991, resistivity <108ohm when electrically resistive fluids are being transferred at high flow rates. Carbon black to FDA requirement 21.CFR 178.3297 and European Commission 2007/19/EC
- Specially flared or tafted ends can be manufactured so that wetted parts of the hose are not in contact with metal to avoid corrosion or contamination
- For protection, bounce rings and spiral guard can be applied
- Heat traced and duplex assemblies when viscous product has to be kept at a constant temperature

Standard End Connections

PTFE SWAGED MALE

PTFE LINED FLANGE

PTFE LINED CAM & GROOVE

PTFE SWAGED FEMALE

PTFE HYGIENIC FITTINGS

All hoses are tested 150 p.s.i air under water and can be supplied with a wide range of certification if required. Assemblies are available with a wide range of end fittings.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Metallic Hose

The Dixon range of stainless steel flexible corrugated metallic hose meets the requirements of class 1 of the EN ISO 10380 standard. Assemblies are manufactured in-house and under pinned by a traceable Quality System in accordance with BSEN ISO 9001:2008 and compliant with PED/97/23/EC.

These hoses are capable of performing under exacting working conditions and in harsh environments, at extremes of temperature -273°C to + 600 deg C, conveying abroad range of liquids or gasses. Typical features are high physical strength, resistance to penetration or damage, good resistance to corrosion, fire resistance, great flexibility, high pressures and long life when correctly installed.

Adflex

Description:	Corrugated flexible metal hose which meets the requirements of class 1 of the EN ISO 10380 standard. Manufactured into assemblies using a wide range of fittings.
Corrugated hose:	AISI: 321 DIN: 1.4541 EN: X6 Cr Ni Ti 18-10, AISI: 316L DIN: 1.4404 EN: X2 Cr Ni Mo 17-12-2.
Braid:	AISI: 304 DIN: 1.4031 EN: X5 Cr Ni 18-10.
Size range:	¼" to 12" (6mm to 300mm).
Pressure range:	¼"/6mm = 100 bar (1450 psi), 12"/300mm = 5 bar (72 psi). Based on one braid.
Temperature range:	-273°C to 600°C.

De-rating factors may apply for elevated temperature applications.

Also available without overbraid as flexible tube only, but working pressures are significantly reduced.

Suparflex

Description:	Corrugated highly flexible metal hose with close pitch annular corrugations, obtained by hydro-forming flexible hose, meeting the requirement of the class 1 of the EN ISO 10380 standard. Manufactured into assemblies using a wide range of fittings.
Corrugated hose:	AISI: 316L DIN: 1.4404 EN: X2 Cr Ni Mo 17-12-2. AISI: 321 DIN: 1.4541 EN: X6 Cr Ni Ti 18-10.
Braid:	AISI: 304 DIN: 1.4031 EN: X5 Cr Ni 18-10.
Size range:	¼" to 6" (6mm to 150mm).
Pressure range:	¼"/6mm = 140 bar (2030 psi), 6"/150mm = 11 bar (160 psi). Based on one braid.
Temperature range:	-273°C to 600°C.

De-rating factors may apply for elevated temperature applications.

Also available without overbraid as flexible tube only, but working pressures are significantly reduced.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Hyparflex

Description:	Exceptionally flexible corrugated metal hose with close pitch annular corrugations, obtained by hydroforming flexible hose meeting the requirement of the class 1 of the EN ISO 10380 standard. Manufactured into assemblies using a wide range of fittings.
Corrugated hose:	AISI: 316L DIN: 1.4404 EN: X2 Cr Ni Mo 17-12-2. AISI: 321 DIN: 1.4541 EN: X6 Cr Ni Ti 18-10.
Braid:	AISI: 304 DIN: 1.4301 EN: X5 Cr Ni 18-10.
Size range:	¼" to 6" (6mm to 150mm).
Pressure range:	¼"/6mm = 150 bar (2175 psi), 6"/150mm = 11 bar (160 psi). Based on one braid.
Temperature range:	-273°C to 600°C.

De-rating factors may apply for elevated temperature applications.

Also available without overbraid as flexible tube only, but working pressures are significantly reduced.

HP/THP

Description:	Corrugated flexible hose assembly, high pressure (HP-1 Braid) and very high pressure (THP-2 Braids) with close pitch annular corrugations, obtained by hydroforming. Meets the requirement of the class 1 of the EN ISO 10380 standard.
Corrugated hose:	AISI: 316L DIN: 1.4404 EN: X2 Cr Ni Mo 17-12-2. AISI: 321 DIN: 1.4541 EN: X6 Cr Ni Ti 18-10.
Braid:	AISI: 304 DIN: 1.4031 EN: X5 Cr Ni 18-10.
Size range:	¼" to 4" (6mm to 100mm).
Pressure range:	¼"/6mm = 255 bar (3698 psi), 4"/100mm = 45 bar (653 psi). Based on one braid.
Temperature range:	-273°C to 600°C.

De-rating factors may apply for elevated temperature applications.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Dixon BulkStream™ Large Bore Suction & Delivery Hose

Custom built, specially made to order rubber hose and assemblies.

This special range of what are often referred to as hand-built hoses generally facilitates features or specifications to a hose that is unique to a customers application or duty, providing reliability of service, longevity of life, cost effectiveness and adds to a safer working environment.

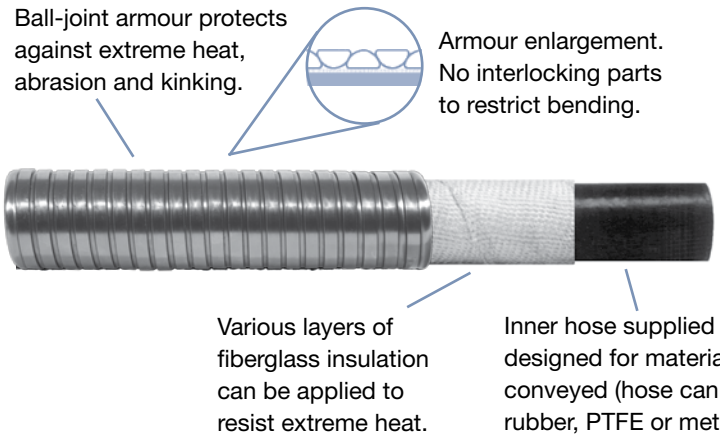
Typical applications and duties are conveying edible and non-edible liquids and abrasive media whether in a dry or water borne. These include fuels, oils, diesel, sea water, drill water, water, mud pump, chemicals, dry powders, sand, animal feed, grain, flour, cement, gravel, barytes etc.

Hoses used at dockside or ship to ship often are often specified to BS EN1765: 2004 for the transfer of all grades of petroleum products including crude oils and other liquid petroleum products with a maximum aromatics content of 40%. For higher aromatic content up to 100% Viton® is available.

A wide range of rubber compounds, hose constructions, cover types/finishes terminations, couplings and hose & coupling security is available.

GSM Ball-Joint Armoured Hose

Applications:	A combination of insulation and GSM exclusive ball-joint armour protects hose from extreme heat, flame, abrasion, molten splash and kinking.
Features:	• GSM armour is applied directly over two wraps of insulation, leaving no gap between the armour and the hose • The insulation and armour are applied under controlled tension resulting in an integrated union of armour to the hose OD • The armour can be placed around an existing hose or a hose supplied by Dixon Specialty Products
Materials:	Galvanised steel or stainless steel.
Sizes:	Available in ¼" - 12".



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Air King™ Universal Couplings

AIR HOSE COUPLINGS – This form of energy can be one of the most dangerous because it is used in so many applications and when mishandled, can have more serious results than fluids. Air, as a gas, is compressible (fluids press only against hose or vessel walls and lose little volume under pressure). When pressurised air releases suddenly, it does so with explosive force and can cause rapid hose whip, which can do serious physical harmto personnel or damage to nearby objects. This is why the selection of proper hose and couplings for air-lines is so important, along with their proper installation and maintenance. Never take for granted that a coupling is installed properly or a clamp fully tightened on an air hose – check it regularly and use safety devices (see King Cable Hose Restraint Section).

Air King™ universal couplings can be recommended for 10 bar (150psi) working pressure at ambient temperature (21°C / 70°F). It is recommended that an Air King™ safety clip or wire restrainer is used to avoid accidental disconnection. Also a King cable should be standard practice on the supply end of the hose. Boss or Air King™ interlocking type bolt clamps should be used and both components of an Air King™ assembly should be Dixon products standard Air King™ fittings are fitted with AWR4 washers. Air King™ is also available to meet MIL spec. WWC-633D.

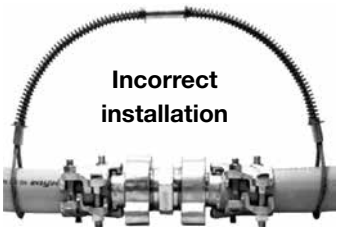
4-lug King quick-acting couplings may only be used in conjunction with an Air King™ Safety Clip.

Note: Air King™ is for Air and Water service only. NEVER use any "Air King™" for STEAM SERVICE.

King Safety Cable Hose Restraint

When hose, couplings or clamps fail, or there is an accidental separation of the assembly, Dixon King Cable Hose Restraints minimise damage to equipment and injuries to personnel. Dixon King Cable Hose Restraints reaches across the hose fittings to provide standby safety for hose.

Spring-loaded loops in the cable ends open easily to pass over the couplings for a firm grip on the hose. Thoroughly tested with years of service. A positive safeguard for air hose connections – helps you to meet today's safety standards.



Incorrect installation

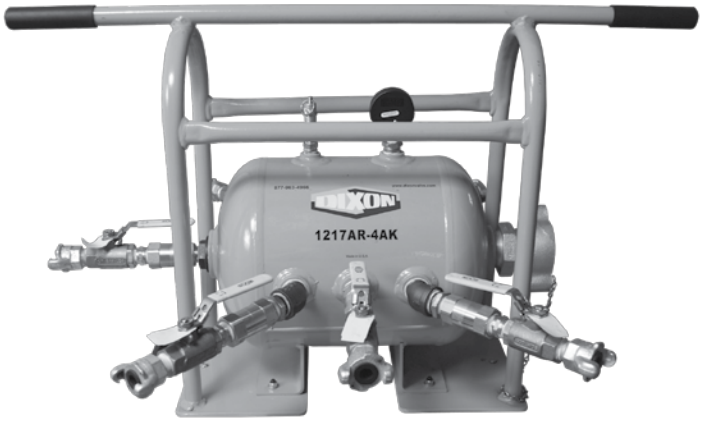
Correct Installation

Features:	• hose-to-hose or hose-to-rigid outlet • King cable is the low cost answer to eliminate injuries caused by broken air • hose connections • highly resistant to rust and corrosion • no tools needed - easy to install and remove • maximum working pressure: 200 PSI

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

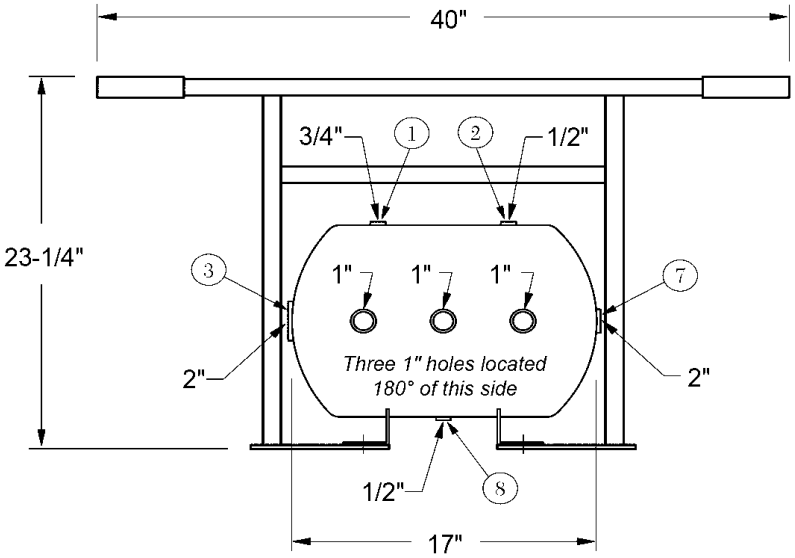
ASME Air Receiver Manifold

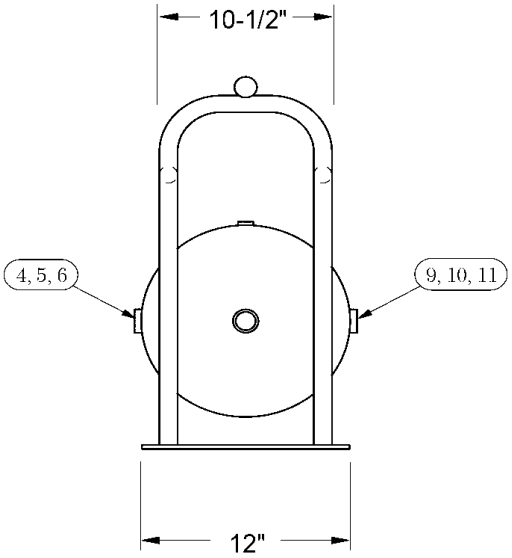
Features:	• Built to ASME Code, National Board registered • 7 gallon capacity • All openings are female NPT thread • Conforms to OSHA standards 1910.169 and 1926.306 • Painted safety orange • 200 PSI working pressure



1217AR-4AK

1217AR-4FR





FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Hand Hydrotest Pump

Features:	
	• stainless steel piston, aluminium body • designed for use in testing pipe lines, pressure tanks and pressure vessels • uses efficient and long lasting check valves • cylinder displacement: 1.37 cubic inches • 0-1000 PSI pressure gauge, 10' pressure hose and quick disconnect coupler included • piston: 7/8" with 2" stroke

INLET NPT	OUTLET NPT	WORKING PRESSURE PSI
½"	½"	1000

Hydrostatic Test Pumps

A safe, cost effective pump to test hose before putting it into service.

Features:	
	• 1.3 GPM fill rate • test pressure: 200 to 2000 PSI • suction strainer keeps dirt out of pump • high pressure test gauge • 115v motor • 2 ft. power cord • easy to use, portable

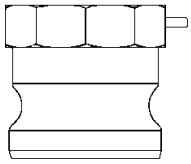
ELECTRIC
DESCRIPTION
Electric test pump

Features:	
	• 5.5 GPM fill rate • test pressure: 0 to 1500 PSI • stainless interior • air gauge for quick, easy adjustment of maximum test pressure • high pressure test gauge • filter/regulator for clean, dry air to ensure long life of unit • on - off valve for air input • 15 ft. of hose included • easy to use, portable • Use of coalescing filter and water filter recommended for prolonged life.

PNEUMATIC
DESCRIPTION
Pneumatic test pump

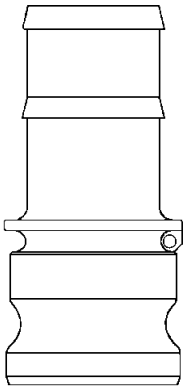
FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Cam & Groove Type Line Drawings



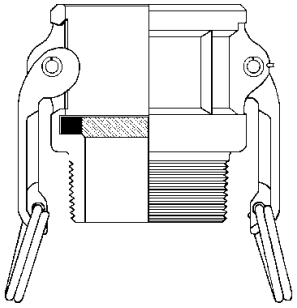
Type A

(male adapter x female NPT/BSP)



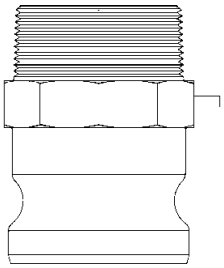
Type E

(male adapter x hose shank)



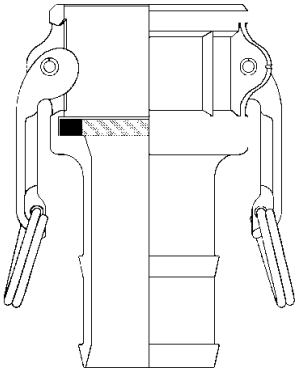
Type B

(female adapter x male NPT/BSP)



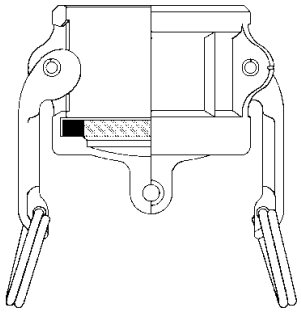
Type F

(male adapter x male NPT/BSP)



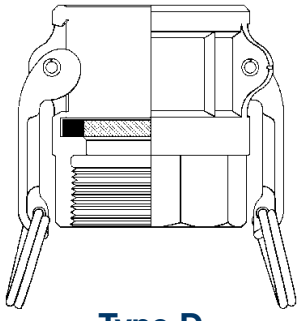
Type C

(female coupler x hose shank)



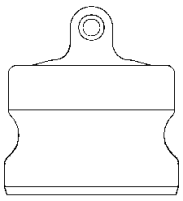
Type DC*

(dust cap)



Type D

(female coupler x female NPT/BSP)



Type DP*

(dust plug)

Note: Line drawings are representative of the Dixon line of cam and groove.

* Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.

WARNING:
Under no circumstances should cam and groove couplings be used for compressed air or steam service!

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

All “Dixon”, “Andrews”, “Boss-Lock” and “EZ Boss-Lock” Cam & Groove couplers and adapters are produced to interchange with all product produced to A-A-59326B.

No standard exists for 1/2”, 5” and 8” fittings, and generally these sizes do not interchange with other manufacturers.

“Andrews” and “Boss-Lock” Cam and Groove Couplings do not interchange in the 8” size. (8” “Andrews” design has 4 cam arms).

DIN Standard Cam & Groove Couplers are produced in accordance with BS EN 14420-7:2004 (formally DIN2828).

Dixon High Pressure couplings will interchange dimensionally with both A-A-59326B and BS EN 14420-7:2004. Couplings for Rubber Hose are available to special order.

Dust Caps and Dust Plugs are **NOT** to be used in pressure applications for safety and environmental reasons.

Threads:
Male threads are either BSPT in accordance with BS21/DIN 2999 or NPT in accordance with ANSI/ASME B1.20.1

Female threads are either BSP PL. in accordance with BS2779/DIN ISO 228 or NPT in accordance with ANSI/ASME B1.20.1

PRESSURE RATINGS FOR A-A-59326B COUPLINGS							
SIZE	**0.5in DN15**	**0.75in-2in DN20-DN50**	**2.5in DN65**	**3in DN80**	**4in DN100**	**5in and 6in DN125-DN150**	**8in DN200**
A-A-59326B BSEN14420	150 psi	250 psi 10 Bar	150 psi 10 Bar	125 psi 10 Bar	100 psi 9.6 Bar	75 psi	50 psi

Pressure Ratings for Dixon High Pressure Cam & Groove Couplings – 60 Bar all sizes with the exception of 2.5” x 2” Coupler (HPCG65BSPF) which is 100 bar/1450 psi.

Pressure Ratings for Polypropylene Cam & Groove – 100 psi/7 Bar.

Note: All pressure recommendations are based on mating couplings at ambient temperature 21°C (70°F).

Types:

Andrews / Dixon

Boss Lock

EZ Boss Lock

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

King Crimp EZ Boss-Lock Type C Couplers

RC300EZCR

⚠ **Not recommended for compressed gas, air or steam**

Applications:	A premium fitting suitable for chemical and slurry transfer, bottom unloading rail cars and the transfer of crude oil and by products among other petrochemical applications.
Features:	• When used with King crimp sleeves and ferrules, creates assembly reliability • Positive lock handles - prevent accidental uncoupling • Handles lock automatically when closed • Handles available in forged brass or investment cast stainless steel to meet chemical requirements
Material:	316 stainless steel.
Sizes:	Available in 1"- 6".

King Crimp Type C Couplers and Adapters

300-C-EC-AL

300-E-EC-SS

⚠ **Not recommended for compressed gas, air or steam**

Applications:	A premium fitting suitable for chemical and slurry transfer, bottom unloading rail cars and the transfer of crude oil and by products among other petrochemical applications.
Features:	• When used with king crimp sleeves and ferrules, creates assembly reliability • Handles offered in forged brass or investment cast stainless steel to meet chemical requirements • Global King crimp fittings are made in the USA
Materials:	Aluminium, brass or 316 stainless steel.
Sizes:	Available in 1"- 6".

King Crimp King Combination Nipples

RSTV10CS

RSTB20CS

RST10CS

Applications:	A premium fitting suitable for chemical and slurry transfer, bottom unloading rail cars and the transfer of crude oil and by products among other petrochemical applications.
Features:	• Recommended for low-pressure discharge and suction service • Working pressure varies with size consult the factory for recommendations • Available in combinations including male NPT, beveled and grooved
Materials:	Plated carbon steel or 316 stainless steel.
Sizes:	Available in 1"- 6".

SAFETY ALERT

Only use the crimp style shanks with the crimp style sleeves and ferrules.

Due to differences in dimensions and tolerances for safety reasons, DO NOT interchange other manufacturer's products with Dixon products.

King Crimp Sleeves

Features:	• For use with the King crimp system. • Short sleeves for standard cam & groove are available • **Only use the crimp style shanks with the crimp style sleeves and ferrules** ⚠ • Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products
Material:	Carbon steel or 304 stainless steel.
Sizes:	Available from 2" - 12"

Hose Ranges	
Hose ID:	**Hose OD (mm):**
1"	30.56 to 31.75
1½"	41.67 to 60.33
2"	55.96 to 74.61
3"	81.36 to 106.36
4"	106.76 to 131.76
6"	160.73 to 188.91
8"	222.25 to 247.65

Crimp Style Ferrules

Features:	• For use with the King crimp system • Short sleeves for standard cam & groove are available • **Only use the crimp style shanks with the crimp style sleeves and ferrules** ⚠ • Due to differences in dimensions and tolerances for safety reasons, do not interchange other manufacturer's products with Dixon products
Material:	Carbon steel or 304 stainless steel.
Sizes:	Available from 2" - 12"

Hose Ranges	
Hose ID:	**Hose OD (mm):**
1"	30.56 to 31.75
1½"	41.67 to 60.33
2"	55.96 to 74.61
3"	81.36 to 106.36
4"	106.76 to 131.76
6"	160.73 to 188.91

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Agri-lock Quick Connect Fittings

male x hose shank

female x hose shank

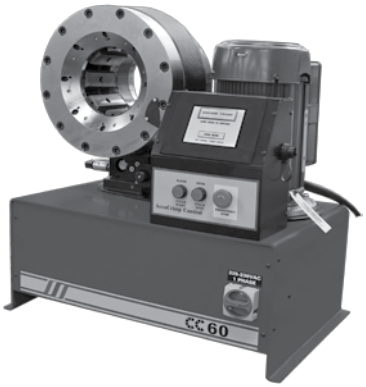
male x female 45° with gasket

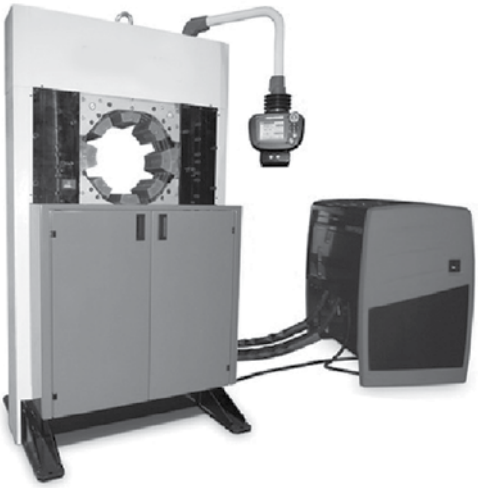
Applications:	Used in the transfer of crude oil, drilling mud, brine water and other liquids used in various oilfield applications
Features:	• Hot dipped galvanised quick connect fittings have a double pin locking lever for smooth closing action • Each coupler is equipped with a safety pin to prevent accidental openings • Available configurations include 45° and 90° elbows, ASA flange, hose shank, NPT, butt-weld, plugs and gaskets. Also available in extra long • **These fittings are not recommended for chemicals or any hazardous type materials where the possibility of leakage would result in health or environmental concerns consult the factory for recommendations**
Material:	Galvanised steel.
Sizes:	Available from 2" - 12" .

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Crimp & Swage Machines

4” – 10” Crimp machines available





20 – 350 ton swaging machines available

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Quick Release Couplings

WS Series (High Pressure Wingstyle)

Applications:	Extensively used in oilfield and off shore oil rig applications where higher pressures may be present.
Features:	• Sleeve is cast using a unique process that provides improved surface finishes, tighter tolerance control and excellent repeatability • Heavy duty hammer lugs are designed to provide optimum durability during connection and disconnection • Seals are easily field replaceable, including the valve seal, which can be replaced without replacing the whole valve • Comply with applicable Det Norske Veritas North Sea standards for coupling applications
Materials:	Coupler and nipple: steel, 316 stainless. Dust plug and cap: Aluminium body with stainless steel bead chain.
Sizes:	Available in ¾", 1", 1¼", 1½" and 2".

WS Series (High Pressure Wingstyle - Blowout Prevention Model (BOP))

Applications:	Designed for Oil Platforms - hydraulic supply lines, pipe spinners, top drivers. Construction and offshore - supply reels, platform jacks, hydraulic hammers.
Features:	• 5000psi working pressure for steel, 3000 psi working pressure for 316 stainless • Blowout prevention safety coupling for oil platform BOP systems • Truncated threads to avoid drop damage • One piece shell cast sleeve with heavy duty wings • Housed main valve to improve seal integrity during pressure connection and disconnection
Materials:	High Tensile steel and 316 Stainless Steel. Seal material options - FKM,EPDM,Silicone, Kalrez and Nitrile.
Sizes:	Thread sizes available, ¾ to 2”.
Standards:	Det Norske Vertias (DNV) Compliance for coupling applications. Lloyds Certificate NAO 0601041/1 API 16D BOP service (700 degC flame for 5 minutes).

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

K Series (ISO7241 Series A Interchange)

Application:	One of the most popular hydraulic coupling styles worldwide, a general purpose double shut-off used to connect hydraulic tools.
Features:	• Couplers and nipples comply with ISO7241 Series A • Couplers have a high concentration of locking balls to reduce incidents of brinelling during operation • Heavy duty knurled sleeves are designed to resist brinelling (to create round indentations in a metal surface) and maximise performance under impulse conditions • Wide variety of thread configurations maximise compatibility in a variety of applications
Materials:	Coupler and nipple: steel Dust plug and cap: elastomer body and lanyard.
Sizes:	Available in ¼", ⅜", ½", ¾", 1", 1¼", 1½" and 2"

H Series (ISO7241 Series B Interchange)

Application:	Double shut-off coupling used in a wide variety of hydraulic applications where fluid transfer lines need to be connected and disconnected with minimal fluid loss.
Features:	• Couplers and nipples comply with ISO7241, Series B • Wide variety of body and seal materials and thread configurations maximise compatibility in a variety of applications • Large diameter heavy duty knurled sleeves are designed to resist brinelling and maximise performance under impulse conditions • **Not recommended for BOP (blow out prevention) systems** ⚠
Material:	Coupler and nipple: steel, brass, 303 stainless, 316 stainless.
Sizes:	Available in ⅛", ¼", ⅜", ½", ¾", 1", 1¼" and 1½"

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

HT Series (ISO16028 Flushface Interchange)

Application:	No-spill flush face design eliminates air inclusion during connection on various hydraulic tools and other hydraulic systems.
Features:	• Patented coupler-stem retention system provides optimum performance during surge flow, burst and impulse pressure • Couplers have a high concentration of locking balls to reduce incidents of brinelling during operation. • Couplings designed to exceed 1,000,000 cycles during impulse testing, making them ideal for hammers • Heavy duty grooved sleeves are versatile, rugged and ideal for bulkhead mounting • Wide selection of seal and body materials provides optimum versatility in a variety of applications
Materials:	Coupler and nipple: steel, 316 stainless. Dust cap: elastomer body and lanyard.
Sizes:	Available in ⅜", ½", ⅝", ¾" and 1".

VEP Series (High Pressure Threaded Flushface)

Application:	Used in a variety of drilling rig applications and hydraulic power units where the ability to connect and disconnect under pressure is necessary.
Features:	• No spill, threaded, flush face design • Connectable under pressure • Patented valve retention system minimised pressure drop and maximises disconnected pressure performance • Interchangeable with Stucchi VEP-Series • Corrosion resistant
Material:	ROHS compliant Trivalent chrome plated steel.
Sizes:	Available in ¼", ⅜", ½", ¾", 1", 1¼, 1½" and 2".

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

ST Series (Snap-tite® 71 Interchange)

Application:	Use in hydraulic applications where a no-spill coupling with higher working pressures and toughness is required.
Features:	• Heavy duty grooved sleeves provide bulkhead mounting options and reduce instances of brinelling • Designed to exceed 1,000,000 cycles during impulse pressure conditions • Couplings comply with applicable Det Norske Veritas North Sea standards for coupling applications • Available in a wide variety of materials, including high pressure stainless steel configurations upon request
Materials:	Coupler and nipple: steel, 316 stainless. Dust cap: aluminium body with stainless steel bead chain.
Sizes:	Available in ¼", ⅜", ½", ¾", 1" and 2".

Snap-tite® is a registered trademark of the Parker Hannifin Corporation.

W Series (Wing Style Interchange)

Application:	Widely used to connect hydraulic lines on oilfield equipment such as tongs, swivels, and other drill rig applications.
Features:	• Threaded wing or hex sleeves enable easy connection and disconnection while under pressure • O-ring connected marker is highly visible during connection, and helps keep contaminants out of the threads while connected • Coupler has a high flow tubular valve designed to reduce pressure drop and turbulence while improving flow performance bulkhead mounting kits available to secure nipples for simplified connection and disconnection • Flanged bonded seal prolongs coupling life and is integral in the reduction of spillage and air inclusion
Materials:	Coupler and nipple: brass, steel wing nut. Dust plug and cap: brass body with stainless steel bead chain. Nipple mounting flange: steel.
Sizes:	Available in ¾", 1", 1¼" and 1½".

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

V / VH-Series (Snap-tite® H / IH Interchange)

Application:	Used for hydraulic as well as pneumatic oil and gas applications where there is a high rate of impulse, such as pneumatic tools.
Features:	• Couplers have a high concentration of locking balls to reduce incidents of brinelling during operation • Couplers and nipples comply with MIL-C-51234 • Large diameter heavy duty knurled sleeves are designed to maximise performance under impulse conditions • Available in single shut-off, double shut-off, or straight through configurations with a wide selection of end connections
Materials:	Coupler and nipple: steel, brass, 316 stainless. Rigid dust plug and cap: aluminium body with stainless steel bead chain.
Sizes:	Available in ¼", ⅜", ½", ¾", 1", 1¼", 1½" and 2".

Snap-tite® is a registered trademark of the Parker Hannifin Corporation.

T Series (High Pressure Screw-Together Interchange)

Application:	Designed for extreme high pressure applications such as hydraulic rams and pumps where PSI up to 10,000 is possible.
Features:	• Threaded sleeve allows connection and disconnection while coupler and/or nipple are under pressure • Urethane seal resists extrusion under high pressure during connection and disconnection
Materials:	Coupler and nipple: steel, 316 stainless. Dust plug and cap: steel body with steel chain lanyard.
Sizes:	Available in ¼" and ⅜".

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

N Series (Bowes 51000 and MacDonald Interchange)

Application:	Designed for applications such as compressed air or inert gas. Application's include Oil Refineries, Chemical Plants for Nitrogen Service. Other application usages are Pneumatic tools and fire hose service.
Features:	• Smooth collar connection and disconnection • Pneumatically energised seal provides an airtight seal at all working pressures • 'Push-Twist and Click' sleeve action • Optional safety lock-ring for accidential disconnection • Hose Barb and Staked Ferrule options available
Materials:	Coupler and nipple: steel, 316 stainless, brass. Dust plug and cap: steel body with steel chain lanyard.
Sizes:	Body Sizes: ⅜" and ½" . Thread Sizes: ⅜", ½", ¾", 1", 1½".

P Series (Thor Finger Lock Interchange)

Application:	Designed for applications such as compressed air systems. Application's include Oil Refineries and chemical plants. Other application usages are Pneumatic tools and fire hose service.
Features:	• Interlocking connection with single or dual locking sleeves for security • 'Push-Twist' connection provides positive locking • Optional safety-lock clip protects against accidental disconnection
Materials:	Coupler and nipple: steel, 316 stainless, brass. Dust plug and cap: steel body with steel chain lanyard.
Sizes:	Body Size: ½" . Thread Sizes: ⅜", ½", ¾", 1", 1½". Hose barb and Staked Ferrules are optional. Sleeve option for Sleeve Flange.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Clamps

Heavy Duty T-Bolt Clamps

Heavy Duty Double Bolt Clamps

Spiral Clamps

Boss Clamps

Worm Gear Clamps

Hi -Torque Clamps

Single Bolt Superclamps

Aero Clamps

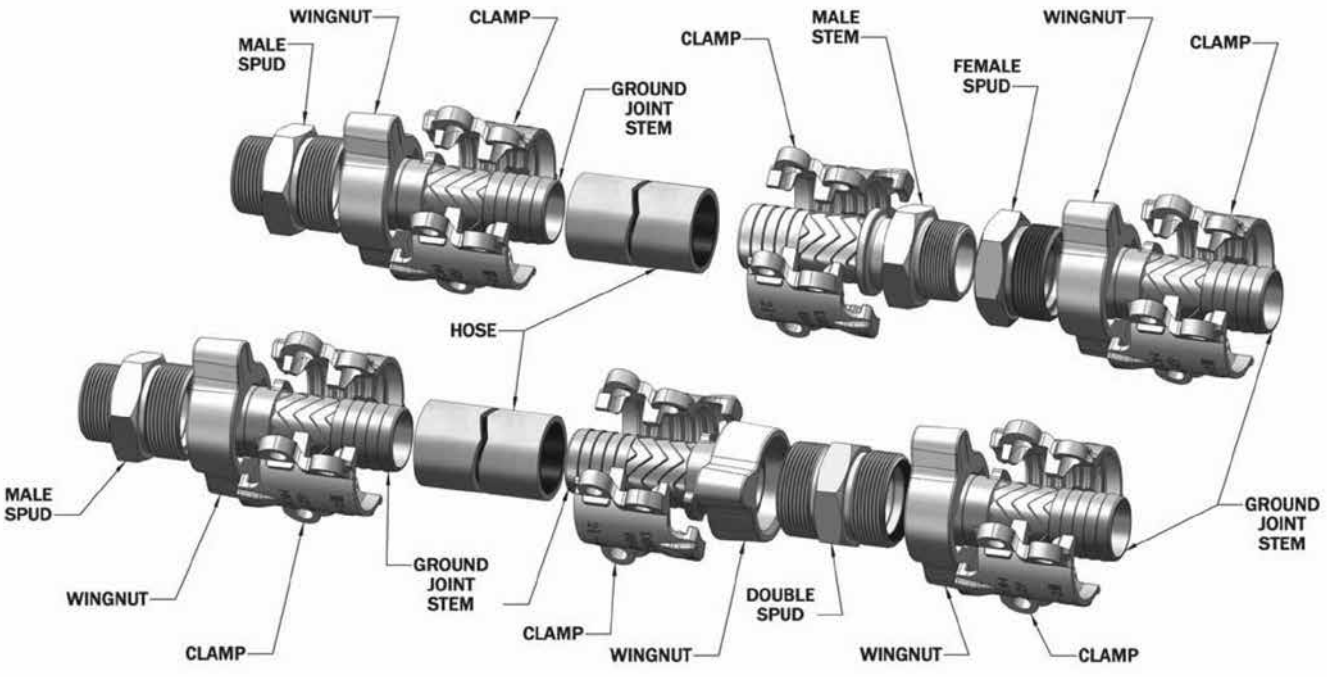
Preformed Band Clamps

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Telephone: **+44 (0)1772 323529** Email: **sales@dixoneurope.co.uk**

Boss Coupling System

Features:	The spud part of the coupling serves as one half of the connection and is usually fixed to the equipment. The stem part that is clamped to the hose is the other half. The two halves are connected or disconnected by rotating the wing nut onto the spud. When connected they achieve a mechanical, as well as, a pressure seal.
Services:	Boss couplings are all-purpose hose couplings, universally recommended for steam hose connections. They are also widely used for air, water, fluid petroleum, chemicals and liquid petroleum gas up to 1" ID. Boss couplings can be applied to many types of rubber, synthetic, plastic, metallic or semi-metallic hose. Consult the factory for specific media capabilities.
Purpose:	Boss couplings supply a convenient threaded fitting to connect two lengths of hose, or a single length to a male or female threaded (NPT) outlet.
Material:	Stem: ¼" - 1" plated steel, 1¼" - 4" plated iron, 6" tubular steel. Spud: ¼" - 1" plated steel, 1¼" - 6" plated iron. Wing nut: ¼" - 1" plated steel, 1¼" - 6" plated iron (stainless steel and brass also available).
Seal Types:	Ground joint: copper or polymer seats. Washer: Klingersil® C-4401.



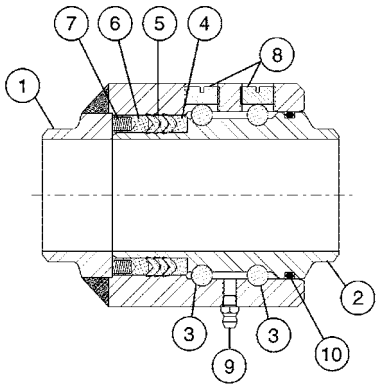
SAFETY ALERT

Worn-out hose couplings can be dangerous. They should be checked regularly and replaced when necessary. Each coupling user should review applications and add safety devices where indicated.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

V-Ring Swivel Joints

1. Body
2. Sleeve
3. Ball bearings
4. Seal retainer
5. V-Ring (pressure) seal
6. Spring retainer
7. Spring
8. Ball retainer screw
9. Grease fitting
10. O-Ring (dust) seal

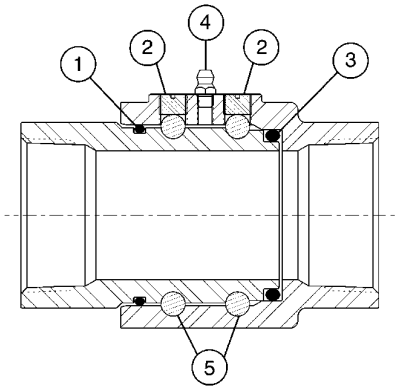


V-Ring Features

- The spring-loaded triple V-ring sealing system ensures a leak proof seal at either high or low pressure and an extended seal life compared to the conventional single O-ring design
- The 3” - 8” carbon steel swivels are manufactured from a special grade of carbon steel with flame hardened dual raceways for greater load bearing capacity and longer life
- The stainless steel swivels are manufactured in 316 grade stainless steel for superior corrosion resistance
- Available with pressure ratings to 1,000 psi
- Available in carbon steel, stainless steel and aluminium

O-Ring Swivel Joints

1. O-Ring (dust) seal
2. Ball retainer screw
3. O-Ring (pressure) seal
4. Grease fitting
5. Ball bearings



O-Ring Features

- The O-ring pressure seal ensures a leak-proof seal at either high or low pressure and smoother rotation at lower torque than multiple seal designs
- Spring-loaded PTFE pressure seals are available up through 3”
- Carbon steel and stainless steel O-ring type swivels provide greater strength and corrosion resistance when needed for lower torque applications
- Available in carbon steel, stainless steel, aluminium, brass and iron

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Telephone: **+44 (0)1772 323529** Email: **sales@dixoneurope.co.uk**

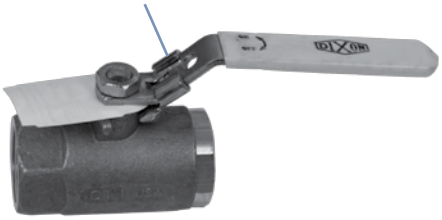
Brass Ball Valves

female NPT x female NPT

Application:	To control the flow of crude oil and natural gas in various applications, from injection systems to blow out prevention in wells.
Features:	• Rated to 600 PSI WOG: 150 PSI saturated steam • Blow-out proof stems • Glass-filled reinforced PTFE seats and stuffing box ring; stem seals and washers • Meets WW-V 35C, Type II Composition • Ball valve handle replacements available
Materials:	Brass valve bodies, balls and stems. Plated steel handles and nuts with vinyl sleeves, both styles repairable.
Sizes:	¼", ⅜" and ½" available in full port design. ¾", 1", 1¼", 1½" and 2" available in standard port design.

Locking Handle Brass Ball Valves

sliding lock mechanism



female NPT x female NPT

Application:	To control the flow of crude oil and natural gas in various applications, from injection systems to blow out prevention in wells.
Features:	• Rated to 600 PSI WOG: 150 PSI saturated steam • Blow-out proof RPTFE stem • Stainless steel sliding lock mechanism secures handle in • Open or closed position; can be padlocked opened or closed
Materials:	Brass valve bodies and stems. Chrome-plated brass ball.
Sizes:	¼", ⅜" and ½" available in full port design. ¾", 1", 1¼", 1½" and 2" available in standard port design.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

3-Way Diverting Ball Valves

T flow pattern
female NPT x female NPT x female NPT

Application:	To control or divert the flow of media in various applications, from injection systems to blow out prevention in wells.
Features:	• Rated to 400 PSI WOG: 100 PSI saturated steam • Blow-out proof stem • PTFE seats, seals, and thrust washer • Adjustable stem packing • Temperature range to 160°C (320°F)
Materials:	Brass valve body. Chrome-plated brass ball.
Sizes:	½", ¾", 1", 1¼", 1½" and 2" available in standard port design.

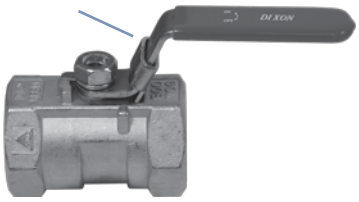
Locking Handle Stainless Steel Ball Valves

sliding lock mechanism

full port with locking handle
female NPT x female NPT

Application:	To control the flow of caustic and corrosive fluid in various oil field applications.
Features:	• Full port rated to 1000 PSI WOG: 100 PSI. saturated steam • Reduced port rated to 800 PSI WOG: 100 PSI saturated steam • Blow-out proof stem design • Temperature range -51°C to 232°C (-60°F to 450°F)
Materials:	316 stainless steel body, ball and stem PTFE seat, joint gasket and thrust washer.
Sizes:	¼", ⅜", ½", ¾", 1", 1¼", 1½" and 2" available in reduced port and full port design.

sliding lock mechanism



reduced port with locking handle
female NPT x female NPT

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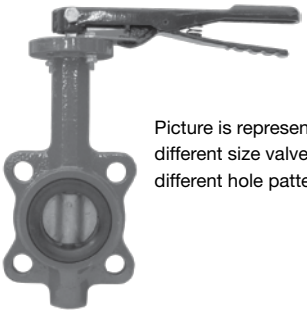
Ductile Iron Butterfly Valves



Picture is representative, different size valves have different hole patterns.

⚠ **Not recommended for steam service**

Applications:	For control of crude oil and oil by-products in pipe lines.
Features:	• Rated to 200 PSI • Will lock "open" or "closed" • For use between two 150 lb. flanges
Materials:	Ductile iron body, ASTM A126, class B. Aluminium bronze disc, ASTM B148, ALY.954. Stainless steel top and bottom stems. Buna-N seal and stem seals; PTFE bushing.
Sizes:	Available in 2", 3", 4" and 6".

Gate Valves

Applications:	Used for steam service in pipe lines or where ever there is a need for higher temperatures or pressures.
Features:	• Bolted bonnet • Female threaded ends • ASTM A105, ANSI B120.1; class 800 • Rated to 1975 PSI • Maximum temperature: 426°C (800°F)
Materials:	Forged steel body.
Sizes:	Available in ½", ¾", 1", 1¼", 1½" and 2".

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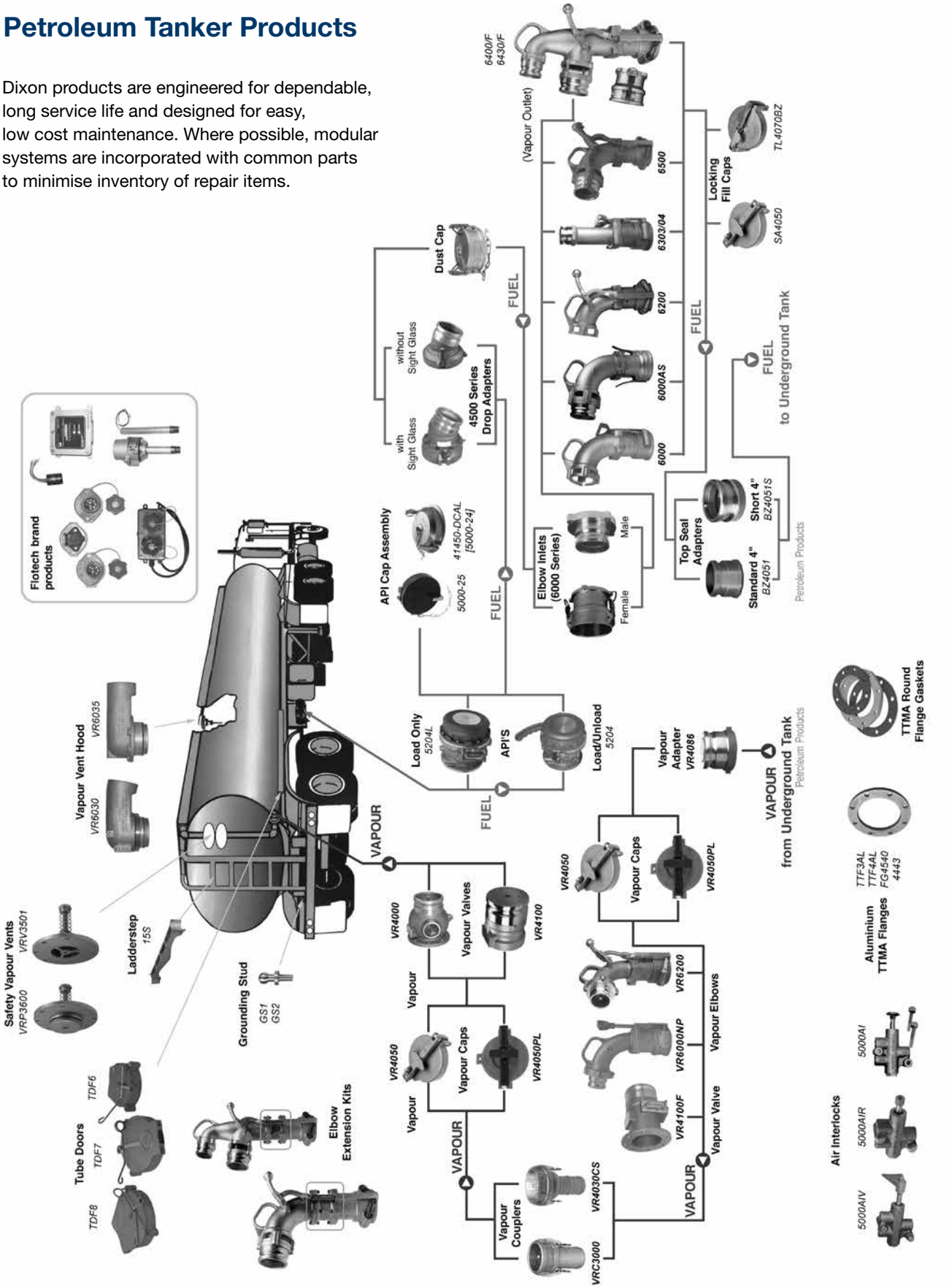
Petroleum Tanker Products

Dixon products are engineered for dependable, long service life and designed for easy, low cost maintenance. Where possible, modular systems are incorporated with common parts to minimise inventory of repair items.



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API Fittings 5300/5400 Series Couplers

5300 series

Applications:	Combined with valves, suitable for applications such as rail car and tank truck loading.
Features:	• Couplers are completely modular so they can be built with various face seal combinations to be compatible with different alternative fuels, performance levels and applications • 5 cam design for easy alignment and tight connection • Ball-end handle for easy, comfortable operation • No special tools needed for maintenance • Shaft seals can be changed without removing coupler from loading arm • Fully interlocked collar can not be opened when connected and can not be disconnected when opened • Fully compliant with API RP1004:2003 specifications • 5300 series has a bonded nose seal while the 5400 series has a replaceable nose seal to accept multiple types
Materials:	Body: hard coated anodized AL 356 T6. Shroud: hard coated anodized AL 356 T6 with stainless steel insert. Link, shaft, pin and crank: hardened 17-4PH stainless steel. Cam: CF8M stainless steel. Poppet and bearing: ZA-12. Seals: Buna, Viton-B®, Viton® GFLT.
Sizes:	4” TTMA inlet mounting flange.

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API Fittings 5204 Load/Unload Valves

5204L load only valve

5204NG load/unload valve

Applications:	Combined with valves, suitable for applications such as rail car and tank truck loading or unloading.
Features:	• Couplers are completely modular so they can be built with various face seal combinations to be compatible with different alternative fuels, performance levels and applications • When used with an API coupler (above) can be used as a high volume dry-disconnect connection • Unique level and sight glass • Chemical resistant crank seals • Standard Viton® poppet seal • Rotate nose for a new cam surface • Reliable and user-friendly
Materials:	Body: hard coated anodized AL 356 T6. Shroud: hard coated anodized AL 356 T6 with stainless steel insert. Link, shaft, pin and crank: hardened 17-4PH stainless steel. Cam: CF8M stainless steel. Poppet and bearing: ZA-12. Seals: Buna, Viton-B®, Viton® GFLT.
Sizes:	4” TTMA inlet mounting flange.

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Dry Disconnect Couplings

When your product is:

- Expensive
- Expensive to clean up
- Expensive to reprocess or dispose
- Hazardous to workers or the environment
- Prone to accidental spillage and product loss

Dry Disconnect Couplings are designed for quick and spill free connection and disconnection of hoses and pipelines. They are used by producers of ink, adhesives, fatty acids, pharmaceuticals, liquid soaps, petroleum, chemicals, agricultural and a wide variety of common caustic and specialty acids.

- **Easy to handle -**
  Push and turn - free flow, turn and pull - closed
- **Time saving-**
  No need to drain hoses or pipe systems
- **Economical-**
  No loss or spillage of liquids at connection or disconnection
- **Safety-**
  The valve cannot be opened until the unit is coupled
- **Environment friendly-**
  Accidental spillage eliminated
- **Safe and reliable-**
  Due to rugged construction
- **Selectivity-**
  Optional selectivity for preventing contamination due to incorrect and cross-coupling
- **Product life-**
  Uncomplicated design and high quality materials ensures longer product life
- **Working Pressure -**

Aluminium:	260 psi / 18 bar
Brass/ Gunmetal:	360 psi / 25 bar
Stainless Steel:	360 psi / 25 bar

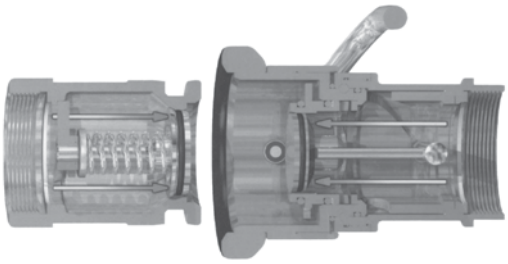
- **Optional Seals-**

EPDM	BR - nitrile
Kalrez®	Chemraz®
Perlast®	

Interchanges with Avery Hardoll and Todo-matic®

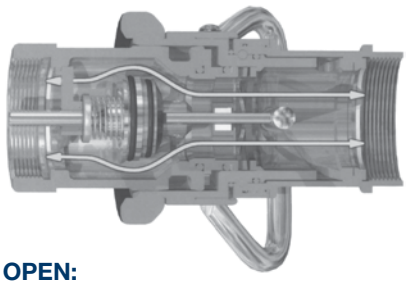
How it works

The principle of operation is identical for all sizes of couplings.



CLOSED:

- Turn and pull
  It's released - no spillage



OPEN:

- Push and turn
  It's coupled - full flow

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Dry Disconnect Cam & Groove Couplings

Application:

For the bulk transfer of petroleum and gas, while ensuring a quick and spill-free connection.

General Features:

- Compatible with most cam and groove style dry disconnects
- Spring loaded sealing device designed to "snap" closed should the valve become disconnected with the poppet open
- Contact the factory for chemical compatibility, size, and material selection
- Special configurations can be designed for your application

Adapter Features:

- Two-piece adapter design for easy rebuilding of adapters
- Fully interchangeable with Kamvalok® style fittings
- Aluminium fittings have aluminium nose piece and brass piston

Coupler Features:

- Dixon EZ Boss-Lock cam arms provide security from accidental opening due to vibration or snagging
- Heavy duty stainless steel crank and link provides long service life
- Dry disconnect coupler has automatic closing poppet assembly
- Stainless steel handle allows product exposure to corrosive chemicals or wash down service
- Strong handle attachment prevents sheared pins and misaligned crank assemblies
- Fully interchangeable with Kamvalok® style fittings
- Aluminium fittings have stainless steel (corrosion resistance comparable to 304 stainless) internals

A DBA style adapter (sold separately) is required for the coupler to operate ⚠

Sizes:

Available in 1½", 2" and 3" female NPT x coupler 2", 2½" and 4".

Available in 1½", 2" and 3" female NPT x adapter 2", 2½" and 4".

Materials:

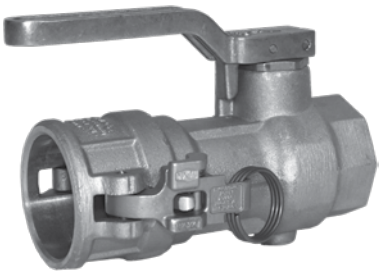
Stainless steel, aluminium.

Adapter seals- Buna, Viton®, PTFE Encapsulated Silicone, EPT, Kalrez®, PTFE Encapsulated Viton®.

Coupler seals- Buna, Viton®, EPT, PTFE Encapsulated Silicone and Kalrez®, PTFE Encapsulated Silicone and Chemraz®, PTFE Encapsulated Viton® and Chemraz®, Kalrez® and PTFE.

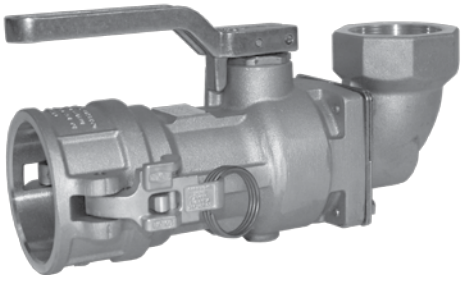
1½" and 2" DBA adapter

3" DBA adapter



1½" and 2" straight coupler

3" straight coupler



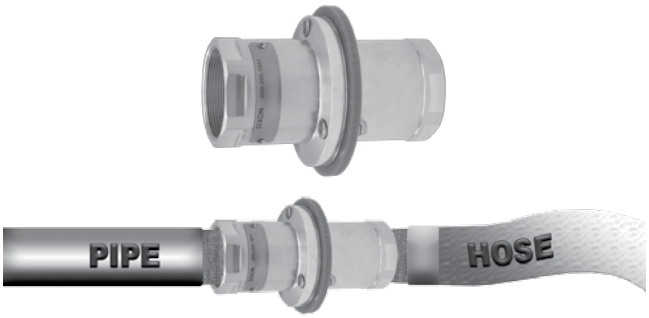
90° swivel

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Safety Breakaway Couplings

Applications:	Coupling is designed to break a connection when accidental force is applied, used most commonly on tank trucks, railcars and barges to limit the possibility of environmental impact and loss of product that a break can create.
Features:	• Coupling automatically senses an excessive load, closes the valves and disconnects • High flow rate / low pressure drop • Female NPT is standard, optional ANSI / DIN flanges or male NPT are available • Working pressure: Stainless steel 360 PSI and Aluminium 230 PSI at ambient temperature 21°C (70°F)
Materials:	Industrial version is available in stainless steel or aluminium. Marine version is available in stainless steel only. Viton® is standard seal.
Sizes:	Available in 2”, 3”, 4”, 5”, 6” and 8”.

INDUSTRIAL VERSION



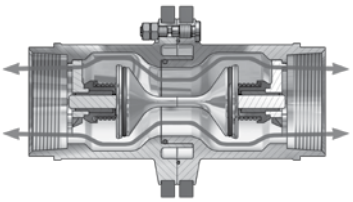
Designed to be installed between a fixed point (pipe, pump, manifold) and a hose.

MARINE VERSION

Designed to be installed between two hoses.

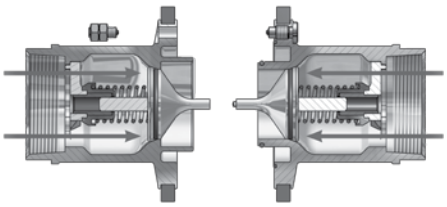
HOW IT WORKS

Safety break-away couplings have three external break bolts. In the case of axial tension all of the bolts take up the force corresponding to the break force on the hose with a safety margin. Non-axial forces concentrate the tension forces more strongly on one bolt, so that the safety break-away coupling reacts in a natural way to the reduction of the hose break forces.



BEFORE emergency disconnect

The safety break-away valve consists of two halves, each with a valve that has an O-ring seal.



AFTER emergency disconnect

When the safety break-away couplings separate, it allows the valves to close. The two valves close rapidly, minimising exposure to personnel and the environment.

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Fluid Management System

Applications:	Nozzles and receivers are used together to make refueling and adding maintenance liquids to vehicles easier and safer; essential when production cannot be stopped to add fluids.
Features:	• Color coding is used for engine oil, diesel fuel, coolant, transmission and hydraulic oils • Fully compatible and interchangeable with industry standards • Standard and high flow series available • Service box housing also available
Materials:	Anodized aircraft grade aluminium.
Sizes:	Engine oil- ¾”. Coolant- ½”. Hydraulic oil- ¾”. Transmission fluid- ½”. Diesel fuel- 1½”.

service box for tank trucks

Standard Series

High Flow Series also available.

diesel fuel nozzle

diesel fuel nozzle

engine oil nozzle

engine oil receiver

hydraulic oil nozzle

hydraulic oil receiver

Other components available for transmission fluid and coolant.

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FloTech™ Overfill Prevention Products

Overfill detection for road tankers is a secondary emergency shut-off system used to prevent overfilling of tanker compartments during the terminal loading process. When an overfill situation is detected, the system will override and shut down the terminal pump/metering equipment filling the tanker compartment(s).

FloTech™ products specifications for bottom loading and are approved by FM and CSA. Products are manufactured in accordance with EN13922.

Features:	
	• Several systems, configurations and complete kits available
	• Monitors feature easy installation and programming
	• 2-wire and 5-wire available
	• Monitor can be programmed up to 100,00 times without sending back to factory
	• Auxiliary input for Hobb type switches
	• Fully compatible with competitors products
	• Monitors include advanced diagnostic capabilities as well as signal translation abilities for all socket types (optic, thermistor or float)
	• System offers true load at any rack compatibility
	• Stainless steel terminal blocks resist rusting of contacts
	• Plug & Play version also available to reduce connection times and user error

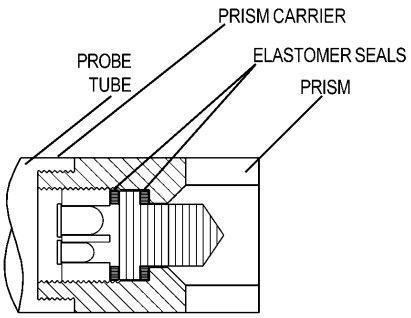
Principals of Operation

Trouble Free Probes and Sensors:

FloTech™ brand probes/sensors do not use epoxy bonded prisms as a means to seal the prism. Therefore, they are not subject to malfunction due to epoxy/prism interface separation. FloTech™ brand probes/sensors incorporate a double elastomer design which seals and secures the sensitive optic prism tip. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and petroleum chemical attack.

FloTech™ brand components are manufactured to be installed easily, even on other systems. They have been designed to be drop-in compatible with API systems being used around the world.

FloTech™ brand products are covered by a three year limited warranty.



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Optic System Tester

Applications:	Used to trouble shoot overfill system circuits.
Features:	• Will work with any optic overfill system • The optic test kit includes a Go, No/Go tester and test lead sets to test 5-wire optic probes, 2-wire optic probes and on-board monitor socket outputs • Uses same permissive signal verification as an optic rack monitor • Multiple accessories and options available
Materials:	Durable plastic case, heavy duty cable connectors and test leads.

API Compatible Rack Cords

Applications:	Used to connect the loading rack monitor to the socket on a fuel tanker.
Features:	• Cords available in coiled or straight lengths • Plug body is coded optic blue or thermistor green • Wiring is compatible with competitor colour codes and wiring configurations • Cord features heavy duty, highly visible orange jacket to meet trip hazard requirements
Materials:	Button contacts are 316 stainless steel. Reinforced nylon plugs with stainless contact pins.

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Valves

Manufacturer and distributor of fire protection valves

- Hose valves
- Pressure reducing
- Pressure regulating
- Globe valves
- Gate valves
- Ball valves
- Angle valves
- Pressure restricting angle valves
- Wharf hydrants
- UL and FM approved

Fire Department Connections

- Single, double, and triple clappers
- Angled and straight bodies
- Polished and/or chromed
- Concealed and reversible
- Sidewalk connections (2, 3, and 4 way)
- Roof connections
- Special threads in stock
- UL and FM approved where required

Hose

- Mill hose, single and double jacket, coupled, uncoupled
- 300#, 400#, 500#, 800# available
- Single and double jackets
- Rack hose
- Booster hose
- Speciality hoses in stock: forestry, UL labeled, MSHA, potable water, urethane covered

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Hydrant Adapters

- Brass and aluminium
- Caps and plugs
- Reducers
- Hex, pin and rocker lug, swivels and long handle
- Most threads in stock others available
- Polished and/or chromed
- Spanners for Storz, pin and rocker lug

Hydrant Nozzles

- Brass fog
- Heavy duty
- Electrical
- Pow-R-Fog
- Plain tips
- Play pipes
- Rack nozzles
- Garden hose twist
- Thermoplastic
- Monitors
- Aluminium constant and adjustable fog

Hose Couplings

- Brass and aluminium expansion rings
- Forestry rocker lug and forged 1/4 turn forestry
- Booster hose fitting and installation kit
- Storz
- Instantaneous Couplings & adapters
- Suction Hose Couplings

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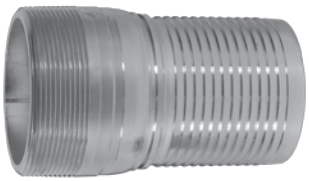
Frac Fittings

4" female fitting
HUF206400CS

4" male fitting
HUM206400CS



4" male NPT fitting
STC40CSHD

4" wing nut
HU206400N

4" forged two-piece
hammer nut

Applications:	Used in the fast paced transfer of water and sand slurry to a hydraulic fracturing site.
Features:	• One-piece design • Hammer nut forged to ASTM 105N standards • 400 PSI working pressure at 21°C (70°F) * • Offers no leak path as typically experienced with two-piece threaded systems • Long lasting and dependable • Interchangeable with hammer union parts already in service • Durable and safe with reliable hose retention • 4:1 safety factor (SF) *
Materials:	Machined malleable iron stems to ASTM A47.
Sizes:	4”.

* 400 PSI working pressure with a minimum 4:1 safety factor (hose burst:hose working pressure) is achieved with Dixon carbon steel ferrule part numbers CF400-6CSHD through CF400-16CSHD. When assembling hose with abrasion resistant covers, such as UHMW polyethylene, you will need to use Dixon's heavy duty (HD) carbon steel ferrule part numbers CF400-6CSHD through CF400-16CSHD. Other size HD ferrules are available upon request.

Note: Water and petroleum transfer hoses rated from 100 to 300 PSI WP (4:1 SF) have excellent test results with the standard King Crimp ferrules CF400-xxCS.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Hammer Unions

Applications:	Color coded connectors for temporary pipe and flow line installation. * note: Socket weld configurations and other materials are available *** mismatching components of one series with another (i.e. 602 series with 1502 series) can lead to destruction of property, serious bodily injury or death** ⚠

100 Series

Features:	• Used on low pressure manifolds and lines and in applications running air, water, oil or gas up to 1,000 PSI NSCWP (non-shock cold working pressure) • Yellow fitting body, black nut
Materials:	Forged steel.
Sizes:	Available in 2”, 2½”, 3”, 4”, 6” and 8”.

200/206 Series

Features:	• Used in general service applications running air, water, oil or gas up to 2,000 PSI NSCWP (non-shock cold working pressure) • Grey fitting body, blue nut • Features an O-ring mounted fitting body
Materials:	Forged steel.
Sizes:	Available in 1”, 1½”, 2”, 2½”, 3”, 4”,6” and 8”.

1502 Series

Features:	• Lip type seal ring minimises fluid flow turbulence while creating a pressure seal • For use in extreme high pressure applications running air, water, oil, gas or mud up to 15,000 PSI NSCWP (non-shock cold working pressure) • Red fitting body, blue nut
Materials:	Forged steel.
Sizes:	Available in 2”.

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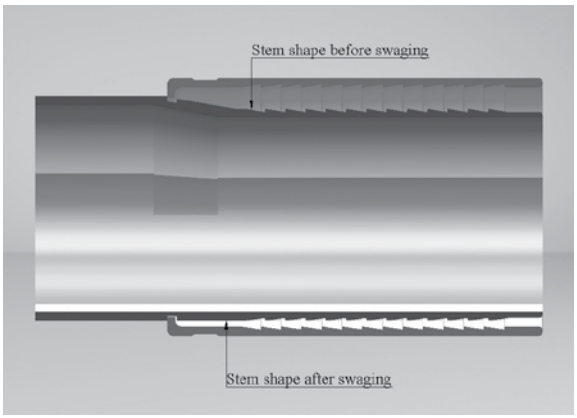
Holedall® Internal/External Swage Couplings and Ferrules

Internal Expansion (IX)

Internal expansion or swaging, is the process by which the stem is internally expanded to compress the hose material against the serrated internal ferrule wall to provide retention. Internal expansion also provides full flow through the bore of the stem significantly reducing turbulence and making cleaning significantly easier.

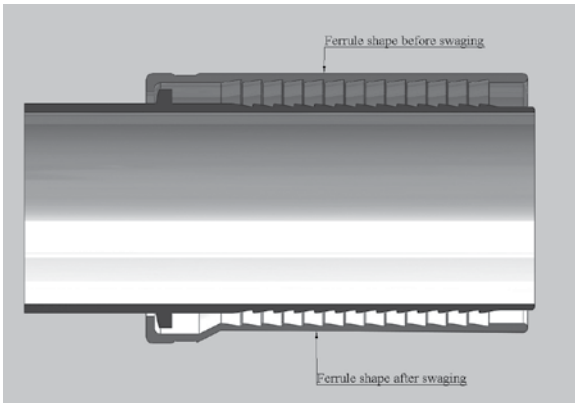
Internal expansion is achieved by pulling a hardened tool of the same size as the hose bore, called a dolly or plug down the inside of the stem in order to expand it. The compressive force exerted on the hose wall by the stem causes the hose material to flow into the serrated cavities of both stem and ferrule, providing a permanently attached secure mechanical bond.



External Swaging (ES)

External Swaging is the opposite process to internal expansion, in that it is the process of reducing the ferrule onto the hose outside diameter and subsequently compressing the hose material into the serrated cavities of both the stem and ferrule, providing a safe and secure method of attachment.

External swaging is achieved by pushing the hose and end coupling assembly through a hardened steel split-die. The internal diameter of the die is smaller than the external diameter of the ferrule. Similar in process to internal expansion, the external diameter of the ferrule is permanently reduced which results in compressive force exerted onto the hose wall causing it to flow into the serrated cavities of both stem and ferrule, providing a permanently attached secure mechanical bond.



Applications:	Used in higher pressure applications such as oil suction and discharge, as well as barge and dock loading and unloading.
Features:	• This multi-purpose, high pressure coupling system requires no bolts and results in a clean coupling with no protrusions. The swaging operation is fast and hose of various lengths and different styles can be coupled. Ease of operation, flexibility and economy make the Holedall® method an unequalled assembly system • Couplings are furnished with pipe thread, plain, grooved or flanged ends • 300-600 PSI working pressure depending on size, contact the factory for more information • **Dixon Holedall® stems and ferrules are specifically designed to be used together as a coupling system. Due to differences in dimensions and tolerances, for safety reasons, do not use other manufacturer's stems or ferrules with Dixon Holedall® product** ⚠
Materials:	Stainless steel or carbon steel.
Sizes:	1½" - 10" hose ID.

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External Swage High Pressure Couplings

Applications:	For services requiring extremely high pressure (up to 3,000 PSI) applications such as on small and medium size drilling rigs: used for slim hole, core drill, workover, seismograph, water well, blast or shot holes, etc.
Features:	• Long, rugged fittings machined from seamless pipe and tubing with specially designed serrations mating ferrules machined from heavy wall material with matching serrations to ensure better coupling retention • Couplings are shipped with matching ferrules. To ensure receipt of a properly sized ferrule please provide hose OD when ordering. Make sure both ends of the hose are measured for OD • Must be swaged with a 50 Ton, 100 Ton or 350 Ton Ram • API and NPT sizes are interchangeable
Materials:	Zinc plated steel.
Sizes:	Available in 2", 2½" and 3".

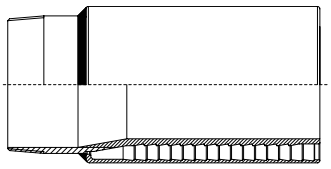
Rotary Hose Couplings

Applications:	Couplings are used for both land-based and offshore drilling operations involving down linking, directional drilling, negative pressure pulses and other applications.
Features:	• Complies with API 7K specifications • Working pressure: 5,000 PSI • Test pressure: 10,000 PSI • Independent, elevated temperature tested to 82°C (180°F) • 47.5 tons end pull test • 15,000 cycle test at full working pressure
Materials:	Stainless steel or carbon steel.
Sizes:	Available in 2½", 3" and 3½" ID.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

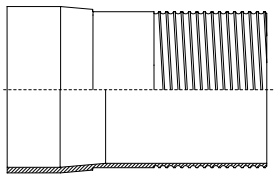
Holedall® High Pressure & Custom Made Couplings

Dixon Group Europe Ltd, whilst being the manufacturer and distributor of the standard range of Holedall® High Performance Hose Couplings are also able to supply a variety of custom designed couplings with a wide range of end configurations and service applications. Design variables of coupling length, materials, wall thickness and serration detail provide for installations ranging from lightweight industrial hose to high pressure hoses used in hazardous environments offshore.



Holedall® High Pressure Coupling Assembly

The Holedall® High Pressure Coupling Assembly can be supplied for either Internal Expansion or External Swage for working pressures of up to 2,500 psi (170 bar) in size 2” through 10”. The assembly is supplied as a one-piece unit with the ferrule being welded to the stem. The assembly can be supplied in various materials including: Stainless Steel and Carbon Steels with Charpy Impact Testing conforming to NACE STD MR-01-75 for both Sour and Non-Sour services.



End terminations include: Welding Neck Flange, API/NPT Thread and Hammer Lug Union.

Holedall® Composite Hose Scroll Tails

Composite Hose Tails are produced for leading Composite Hose Manufacturers in both Carbon and Stainless Steels with fixed and swivel flanged, grooved and threaded end terminations for External Crimping and Swaging in nominal bore sizes up to 10”.

Holedall® Hammer Lug Union End Termination

Holedall® IX stem with integral 4” fig 206 hammer lug union end termination. Holedall® EC stem with integral 4” fig 206 hammer lug union end termination for UHMWPE, XLPE and chemical hose.

- Male sub and Dixon branded nut
- Female sub

Whatever your application, the Holedall® brand of high integrity hose couplings are engineered for the exacting service that is demanded by industry today.

Leak-free sealing, coupling retention and maximum end-load capability is achieved with this permanently attached interlocking coupling system.

The Holedall® design is simple…the performance impressive.

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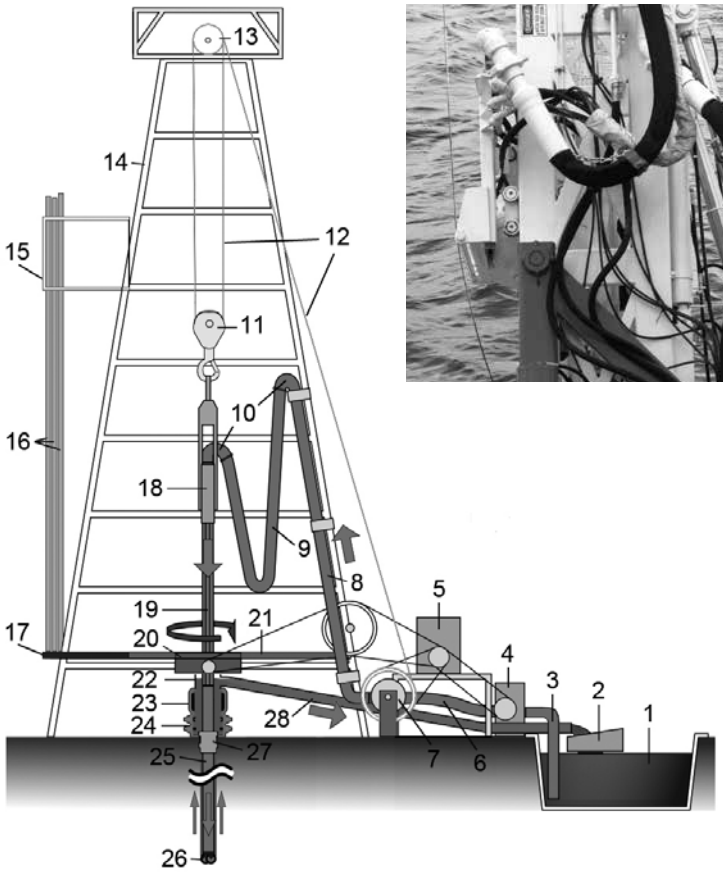
Holedall® Swaged Rotary Drilling Hose Coupling System

In conjunction with the World's leading Rotary/Vibrator Drilling Hose manufacturers, Dixon have developed the Holedall® Swaged Rotary Hose Coupling Assembly System. This technology enables both Hose manufacturers and distributors alike to produce safe and secure High Pressure Mud/Rotary Hose Assemblies, in a fraction of the time it traditionally takes using built-in couplings.

These couplings are used for both land-based and offshore drilling operations involving down linking, directional drilling, negative pressure pulses etc. which occur in today's advanced drilling technologies

Typical Drilling Rig Components.

1 Mud tank
2 Shale shakers
3 Suction line (mud pump)
4 Mud pump
5 Motor or power source
6 Vibrating hose
7 Draw-works (winch)
8 Standpipe
9 Rotary/Kelly hose
10 Goose-neck
11 Traveling block
12 Drill line
13 Crown block
14 Derrick
15 Monkey board
16 Stand (of drill pipe)
17 Pipe rack (floor)
18 Swivel (On modern rigs this may be replaced by a top drive)
19 Kelly drive
20 Rotary table
21 Drill floor
22 Bell nipple
23 Blowout preventer (BOP) Annular
24 Blowout preventers (BOPs) pipe ram & shear ram
25 Drill string
26 Drill bit
27 Casing head
28 Flow lin



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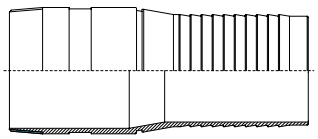
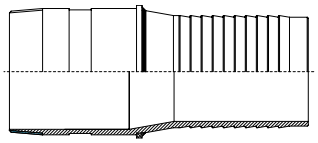
Holedall® Hookie – Hook Stem & Ferrules





Hookie – Hook Stems & Ferrules are predominantly used for Bulk Loading/Rig Supply Hose operations on Offshore applications.

Stems are supplied Yellow Zinc Plated in accordance with BS1706: 1990 as standard, with threads to API Standard 5B: 1988. (NPT)

HOOKIE HOOK STEM		
INTERNAL EXPANSION STEM CARBON STEEL - PART NO.	**EXTERNAL SWAGE STEM CARBON STEEL - PART NO.**	**NOMINAL BORE / DN**
HA0141ZP **HA0142ZP** **HA0143ZP**	**HA0197ZP** **HA0198ZP** **HA0199ZP**	3” / 80 4” / 100 5” / 125

Internal Swage Ferrules can be supplied in either, natural, Yellow Zinc Plated or Powder Coat Painted finishes in accordance with Oil & Gas UK colour coding scheme or to suit specific requirements.

Ferrule Colour Coding

FERRULE COLOUR CODING	
FERRULE COLOUR CODE	**HOSE APPLICATION**
Yellow	Dry Cement
Orange	Dry Baryte
Blue	Potable Water
Brown	Diesel Oil / Fuel
Red	Base Oil / Brine
Green	Drill Water
Black	Oil Based Mud
Purple	Glycol
Pink (Black/ Brown Strip)	Base Oil / Fuel Oil
No Colour	Scale Inhibitor

External Swage or Crimp Ferrules are usually supplied in Yellow Zinc Plated finish.

Hookie - Hook Hose Lifter

Dixon are able to supply hose lifters specifically designed for use with Bulk Loading Hose/ Hookie Hook Stems.

Manufactured in forged carbon steel. All Hoselifters are supplied with proof load test and material (3.1) certificates and are available in bore sizes 3”, 4” and 5”. Safe working load is 4 Tons, with a proof load test of 8 Tons. Hose Lifters are supplied complete with retaining clamp.

HOOKIE - HOOK HOSE LIFTER	
PART NO.	**SIZE**
HA0900-3	3”
HA0900-4	4”
HA0900-5	5”

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S.T.A.M.P.E.D.

When fabricating and specifying hose assemblies ask the following questions:

Size:	What is the I.D. (Inside Diameter) of the hose? What is the O.D. (Outside Diameter) of both ends of the hose? What is the overall length of the assembly required?
Temperature:	What is the temperature range of the media (product) that is flowing through the hose assembly? What is the temperature range of the environment that surrounds the outside of the hose assembly?
Application:	How is the hose assembly actually being used? Is it a pressure application? Is it a vacuum (suction) application? Is it a gravity flow application? Are there any special requirements that the hose assembly is expected to perform? Is the hose being used in a horizontal or vertical position? Are there any pulsations or vibrations acting on the hose assembly?
Media:	What is the media/material that is flowing through the hose assembly? Being specific is critical. Check for: Abrasive materials, chemical compatibility, etc..
Pressure:	What is the maximum pressure including surges (or, maximum vacuum) that this hose assembly will be subjected to? Always rate the maximum working pressure of your hose assembly by the lowest rated component in the system.
Ends:	What couplings have been requested by the user? Are they the proper fittings for the application and hose selected?
Dixon:	Dixon recommends that, based on the hose, fittings and attachment method used, all assemblies be permanently marked with the designed working pressure and intended media. Do not use other manufacture's fittings or ferrules with Dixon products due to the differences in dimensions and tolerances. We also recommend that all hose assemblies be tested frequently.

Be Safe: Any questions on application, use or assembly please call Dixon.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Telephone: **+44 (0)1772 323529** Email: **sales@dixoneurope.co.uk**

B.E.S.A.F.E.

We encourage you to share this information with anyone who may be effected by the selection, installation, maintenance or use of any hose assembly. Always use quality products to B.E.S.A.F.E.

Hose assemblies must be inspected prior to each use. Worn out fittings, attachment devices, hose and accessory items must be replaced. Retaining devices (safety devices) such as clips, cables or chains must be used. Clamps must be checked regularly to the specified torque found in the Dixon literature. Under no circumstance should any coupling be disconnected while under pressure unless the coupling is specifically designed to do so. Disconnecting couplings under pressure could result in serious injury or death, and destruction to property and equipment.

For all hose assemblies in use:

Beware	hose assemblies when used improperly or in the wrong application can be dangerous. The maximum working pressure shown on the hose is not an indication of the working pressure of the assembly. Based on the hose, fittings and attachment method used all assemblies should be permanently marked with the designed working pressure and the intended media. The assembly working pressure should be permanently displayed. Hose assemblies must be used for the intended service only. Never alter manufactured product or substitute component parts.
Eliminate	hazardous conditions by inspecting, maintaining and testing hose assemblies. Dixon recommends that all hose assemblies are tested in accordance with the hose manufacturer's specifications. The application determines the regularity of the re-testing schedule.
Secure	and inspect hose, fittings, clamping devices and safety accessories before each use. Never take for granted that the coupling or attachment devices are properly installed.
Always	inspect and re-tighten the bolts of any bolt style clamping device to the manufacturer's torque specifications.
Fittings	hose and clamping devices that are worn out or damaged must be removed from service.
Educate	your employees about the proper use, care and potential hazards of hose assemblies. Take advantage of Dixon's free Hose Assembly Safety Programme and the follow up Training Seminar to aid you in setting up your own inspection programme. Any questions on applications, use or assembly call our technical support team.

FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

Dixon Hose Assembling

To provide a complete service to it's customers Dixon has made considerable investment in its extensive in-house hose assembling capabilities, under pinned by a traceable Quality System in accordance with BSEN ISO 9001:2008 and compliance with PED 97/23/EC. The capability is supported by a huge inventory of couplings to produce hose assemblies utilising the following methods:

Rubber, PTFE* and Composite**

- Internal Expansion (IX) 25mm to 305mm nominal bore
- External Crimp (EC) 6mm to 102mm nominal bore
- External Swage (ES) 25mm to 102mm nominal bore

* EC only, **EC & ES only

Rubber and PVC

- Heavy Duty Double Bolt Clamps
- Band & Pre-formed Band Clamps
- Heavy Duty T-Bolt Clamps
- Hi-Torque Clamps
- Compression Rings
- BSEN 14420-3:2004 Safety Clamps (formerly DIN 2817 etc)

Metal

- Welding procedures are in accordance with ASME IX, and BSEN 288
- Welders Qualifications to ASME IX and BSEN 287

Test procedures and additional services

Our pressure testing facilities include:

- Pneumatic Leak Test (Air under Water)
- Hydrostatic Proof and Burst tests up to 380 bar (5510 psig)
- Hydrostatic Proof and Burst test certification can be supplied with a Chart Recorder read-out if requested at time of order placement
- Assemblies can also be Hydrostatically tested using de-mineralised water (Maximum Chloride content of 30mg/l) when requested
- Liquid Penetrant Inspection to ASME V Article 6 & ASME B31.3 Table 341.3.2
- Liquid Penetrant Technicians qualified to PCN Level 2
- Sub-Contract X-Ray in accordance with ASME V Article 6 with acceptance level to ASME B31.3 Table 341.3.2
- Endoscope

Registered supplier to the UK Ministry of Defence.

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Pressure Equipment Directive 97/23/EC

The Pressure Equipment Directive 97/23/EC was embraced by the European Parliament and the Council of Ministers on 29 May 1997, enforced a further 2 years later on 29 November 1999 but with a 3 year grace, whereby compliance to its requirements were elective until 29 May 2002.

Failure to comply could result in prosecution by way of a fine, prison sentence or both.

On the whole the PED is legislation across the European Environment Agency (EEA), which requires that all pressure equipment must be fully compliant with regards to particular aspects such as material selection, design, manufacturing techniques, personnel qualification, testing requirements, product marking and user liability.

The Directive covers pressure equipment and assemblies with a maximum allowable pressure PS greater than 0.5 bar and includes such equipment as reaction vessels, industrial pipe-work, pressurised storage containers, heat exchangers, pressure accessories and safety devices. The PED's interpretation of an assembly being several pieces of pressure equipment assembled to form an integrated system.

PED accreditation, where applicable, allows for the active placing of the CE mark on pressure equipment and is a given passport to free trade within the EEA, without the need for statutory inspection by current Member States.

As a result, Dixon Group Europe have revised their manufacturing methodology and integrated an already efficient ISO 9001 quality management system with the Essential Safety Requirements of the PED, accredited by Lloyds Register, Notified Body Number 0038.

For further information on how this can benefit your business, please contact us on 01772 323529

Trademarks

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Limited Warranty

Dixon Group Europe Ltd (herein called "Dixon") warrants the products described herein, and manufactured by Dixon to be free from defects in material and workmanship for a period of one (1) year from date of shipment by Dixon under normal use and service. It's sole obligation under this warranty being limited to repairing or replacing, as hereinafter provided, at its option any product found to Dixon's satisfaction to be defective upon examination by it, provided that such product shall be returned for inspection to Dixon's factory within three (3) months after discovery of the defect. The repair or replacement of defective products will be made without charge for parts or labour. This warranty shall not apply to: (a) parts or products not manufactured by Dixon, the warranty of such items being limited to the actual warranty extended to Dixon by its supplier; (b) any product that has been subject to abuse, negligence, accident, or misapplication; (c) any product altered or repaired by others than Dixon; and (d) to normal maintenance services and the replacement of service items (such as washers, gaskets and lubricants) made in connection with such services. To the extent permitted by United Kingdom law, this limited warranty shall extend only to the buyer and any other person reasonably expected to use or consume the goods who is injured in person by any breach of the warranty. No action may be brought against Dixon for an alleged breach of warranty unless such action is instituted within one (1) year from the date the cause of action accrues. This limited warranty shall be construed and enforced to the fullest extent allowable by applicable United Kingdom law.

OTHER THAN THE OBLIGATION OF DIXON SET FORTH HEREIN, DIXON DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND ANY OTHER OBLIGATION OR LIABILITY. THE FOREGOING CONSTITUTES DIXON'S SOLE OBLIGATION WITH RESPECT TO DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL, RESULTING FROM THE USE OR PERFORMANCE OF THE PRODUCT.

Some products and sizes may be discontinued when stock is depleted, or may require a minimum quantity for ordering.

Dixon Group Europe Ltd is committed to a policy of continuous development, and as such, the above detailed specification and may be subject to change without notice. Dixon Group Europe Ltd reserves the right to change and modify designs and specification without notice.

Pricing

Dixon will always try to maintain pricing, however, with the fluctuation of material cost we may be forced to change prices. Please be aware pricing is subject to change without notice.

Freight/Postage & Carriage Charges

Postage & carriage charges are at the customer's expense and will be charged at current appropriate rates.

Returns

Dixon will allow its customers to return any product for any reason within 30 days of shipment, provided it is received in a saleable condition. The customer must call to receive a CCR number prior to returning goods to Dixon and shipping will be at the customer's expense, unless it is determined Dixon created the reason for the return.

A re-stocking charge of 25% applies to all returns.

Limits of Liability

This catalogue is intended as a product offering. It is not intended to be a user or technical manual. Information in this catalogue is subject to change without notice. All users and distributors of products sold through this catalogue should contact Dixon with questions of use, compatibility's, coupling procedures and life of product. Dixon's full time engineering and test staff is always available to recommend uses and to assist distributors and users with questions.

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FOR INSTALLATION AND SAFETY GUIDELINES REFER TO THE TECHNICAL SECTION OF THE DIXON HOSE AND COUPLING DIRECTORY

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