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## Petrochemical Life Cycle Exploration and Production

The content in this phase of the Petrochemical Life Cycle (see pages 22-23) focuses on the numerous transfer applications in the oil and gas field. Featured are the Dixon® products used within the Exploration/Production segment.

Please refer to the Dixon Product List or [dixonvalve.com](http://dixonvalve.com) for specific part numbers and various other products used in the transfer and control of liquids, gases and dry materials.

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### Safety

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling, and retention device, and the proper application of the coupling to the hose are of utmost importance.

Users must consider the size, temperature, application, media, pressure, and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Association for Rubber Products Manufacturers (ARPM) recommendations and inspected regularly (before each use) to ensure they are not damaged or loose. Visit [ARPMINC.com](http://ARPMINC.com) for more information.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables are recommended.

If any problem is detected, couplings must be removed from service immediately.

Dixon is available to consult, train, and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon's testing and recommendation services. Call 877.963.4966 or click [dixonvalve.com](http://dixonvalve.com) to learn more.

# BOSS<sup>®</sup> LPS Products

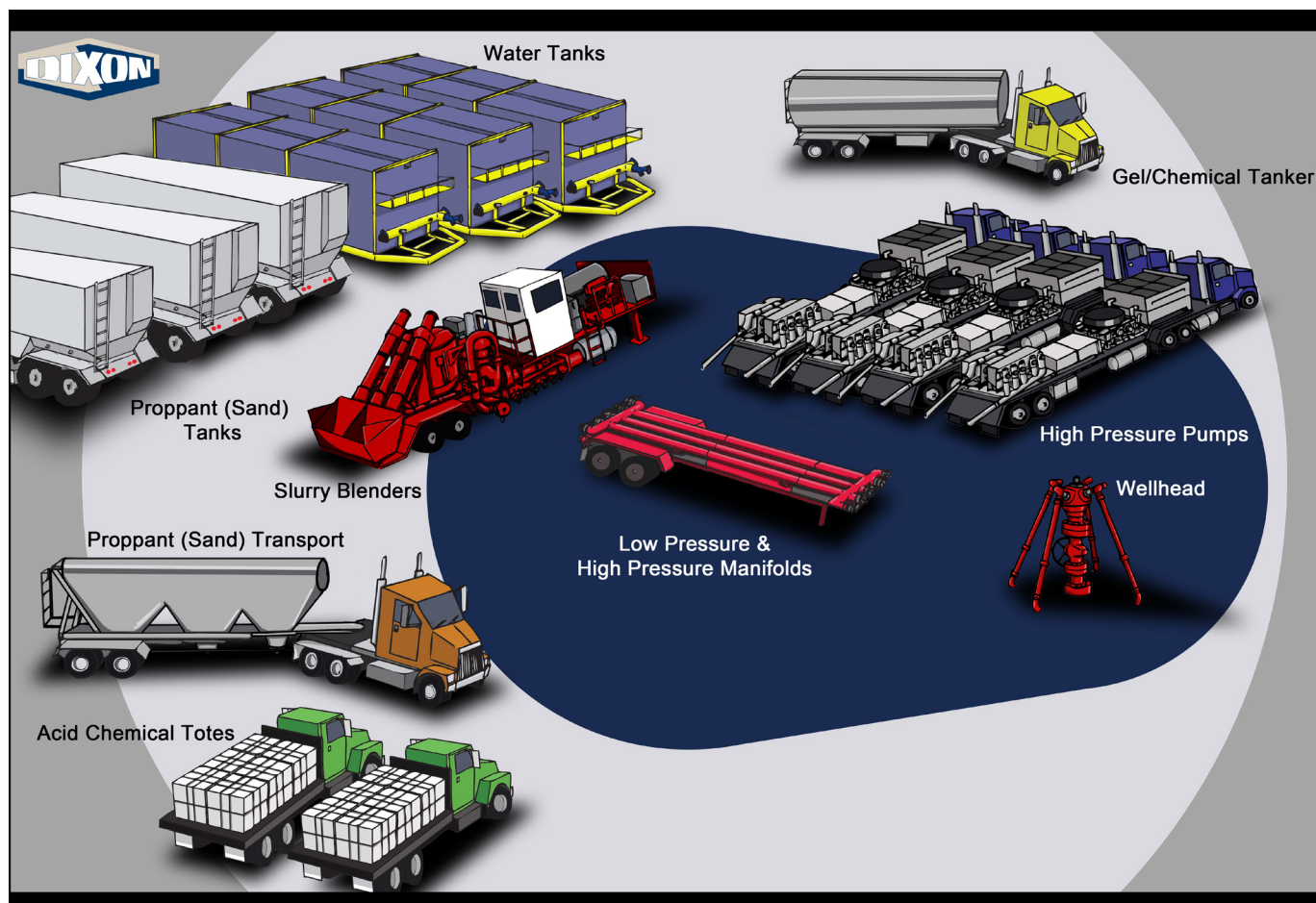
## Low Pressure Systems

Dixon is committed to understanding customer challenges and developing solutions. Key to achieving these objectives is Dixon's Innovation Center, an engineering, research, and training facility integral in the development of the Boss LPS products defined in this brochure.

Visit [dixonvalve.com/history](http://dixonvalve.com/history) to learn more.

### Hydraulic Fracturing Site

Boss LPS (Low Pressure System) products are used in many applications found at hydraulic fracturing sites from the water source up to high pressure pumps. Please refer to the following pages for detailed information on Dixon's expanding product line.



## King Crimp® Short Combination Nipples, Ferrules, and Sleeves



STC80CS  
S900X400X120CS  
CFS800-1CS

### Application

- Recommended for low-pressure discharge and suction service for compatible liquids

### Size

- 8"

### Features

- Short combination nipples, ferrules, and sleeves

### Material

- Schedule 40 plated carbon steel to ASTM standards

### Approval

- Materials meet ASTM standards

## Grooved and NPT Threaded End King Combination Nipples



STV100



STC120

### Application

- Recommended for low-pressure transfer and suction service for compatible liquids

### Sizes

- 1/2" through 12"

### Features

- Crimp sleeves are available and recommended for reliable assemblies
- Compatible sleeve recommendations are available, call 877.963.4966

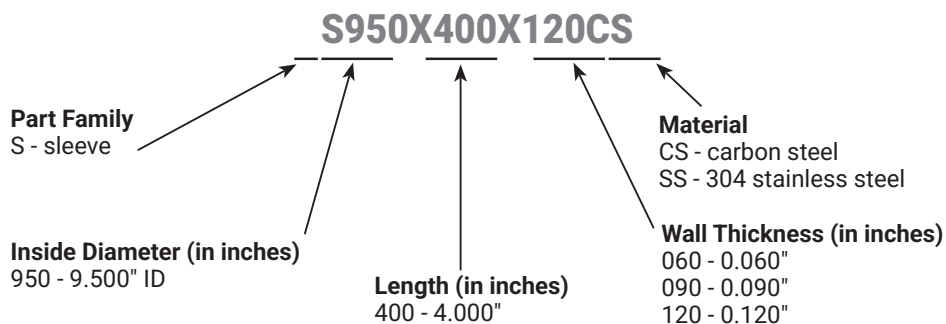
### Materials

- Unplated steel and plated steel

### Specification

- Grooved ends, NPT threaded end

## Special Sleeve and Ferrule Part Numbering System



## One-Piece Dixon<sup>®</sup> Frac Fittings


### Application

- Used in the transfer of water, chemicals, and sand slurry at hydraulic fracturing sites

### Sizes

- 2", 3", 4", 6", and 8"

### Features

- One-piece stem design eliminates leak path experienced with two-piece threaded systems
- Interchangeable with reliable brands
- Designed to work with Dixon King Crimp<sup>®</sup> sleeves or ferrules 

### Materials

- Frac fittings: machined iron to ASTM standards; all stems zinc plated
- O-rings nitrile

### Specifications

- 400 PSI (28 bar)** working pressure at **70°F (21°C)** for 2", 3", and 4" sizes; 4:1 safety factor (SF)<sup>1</sup>
- 230 PSI (15 bar)** working pressure at **70°F (21°C)** for 6" size; 4:1 safety factor (SF)
- 150 PSI (10 bar)** working pressure at **70°F (21°C)** for 8" size; 3:1 safety factor (SF)
- Nitrile rubber O-ring temperature rating **-40°F (-40°C)** to **250°F (121°C)**
- Figure 100, 200, and 206 female and male frac fittings, male NPT fittings

### Approvals

- All sizes meet ASTM standards

<sup>1</sup> **400 PSI (28 bar)** working pressure with a minimum 4:1 safety factor (*hose burst: hose working pressure*) is only achieved with:

- 3" size uses standard crimp ferrules
- 4" size requires heavy duty (HD) crimp ferrules, CF400-6CSHD through CF400-16CSHD

NOTE: Water and petroleum transfer hoses rated from **100 to 300 PSI (7 to 21 bar)** WP (4:1 SF) have excellent test results with the standard King Crimp<sup>®</sup> ferrules CF400-xxCS.



HUF206400CS



HUM206400CS

## Figure 206 Frac Fittings (316 stainless steel)

### Application

- Used in the transfer of water, chemicals, and sand slurry at hydraulic fracturing sites

### Sizes

- 1", 2", and 4"

### Features


- One-piece stem design eliminates leak path experienced with two-piece threaded systems
- Interchangeable with reliable brands

### Materials

- Frac fittings: 316 stainless steel
- O-rings: 1" and 2" with FKM; 4" with nitrile rubber

### Specifications

- 400 PSI (28 bar)** working pressure at **70°F (21°C)**; 4:1 safety factor (SF)<sup>1</sup>
- Figure 206 female and male

<sup>1</sup> **400 PSI (28 bar)** working pressure with a minimum 4:1 safety factor (*hose burst: hose working pressure*) is only achieved with: 4" size requires heavy duty (HD) crimp ferrules, CF400-6CSHD through CF400-16CSHD, heavy duty stainless steel is not available 



RHUM206100CS-1



RHUF206100CS

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## Suction Service Fittings



HUSF500SW



HUSM500SW1



beveled end  
STB50

### Application

- Used in the transfer of dry cement, and in mud system suction lines

### Size

- 5"

### Features

- Socket weld male and female unions for attaching to hose fittings or pipe
- Weld ready hose fittings available from Dixon®
- 2-piece nut is pinned and bolted for easy service and repair
- Figure 50 suction hose fittings

### Materials

- Unions and hose fittings: carbon steel
- Nuts: 2-piece forged steel, Figure 50 split nuts located on opposite page

### Specifications

- Available configurations: socket weld x suction male hammer union, socket weld x suction female hammer union, King combination nipple, Figure 50 suction hammer union split nut (includes bolts)

### Approval

- Nuts meet AISI standards

## Hammer Unions



HU100400



HU206200

### Application

- Used in the transfer of water, chemicals, and sand slurry at drilling and hydraulic fracturing sites

### Sizes

- 100-Series: 2", 2-1/2", 3", 4", 6", and 8"
- 200/206 series: 1", 1-1.2", 2", 2-1/2", 3", 4", 6", and 8"

### Features

- 100 series: threaded and buttweld ends available
- 200/206 series: nitrile O-ring mounted fitting body
- Visit [dixonvalve.com](http://dixonvalve.com) or contact Dixon® for availability of other HU series hammer unions

### Materials

- 100-Series: steel
- 200/206 series: forged steel

### Specifications

- 100-Series: used on low pressure manifolds and lines in applications running air, water, oil or gas up to **1,000 PSI (69 bar)** non-shock cold working pressure
- 200-Series: used in general service applications running air, water, oil or gas up to **2,000 PSI (138 bar)** non-shock cold working pressure

## One-Piece Hammer Union Nuts

### Application

- Used with any hammer union fittings requiring reliable nuts

### Sizes

- 1", 2", 3", 4", 5", 6", and 8"

### Features

- Long lasting and dependable nut
- All nuts are interchangeable with reliable brands

### Material

- Forged steel meeting AISI standards

### Specifications

- Cold working pressure: Figure 50, **500 PSI**; Figure 100, **1,000 PSI**; Figure 200/206, **2,000 PSI**

### Approval

- Nuts meet AISI standards



HU206400N



HU206800N

## Two-Piece Hammer Union Nuts

### Applications

- Replacement for damaged hammer union nuts
- Used with male one-piece flange adapters

### Sizes

- 4", 5", 6", and 8" (bolts included)

### Features

- Lug design provides enlarged surface area to hammer
- Repair nut is pinned and bolted for perfect alignment
- All split nuts have chamfer for welding
- Nut can be installed on pre-existing hammer union assembly
- 4" Figure 200/206 nut is interchangeable with reliable brands
- 5" Figure 50 nut is interchangeable with reliable brands
- 6" and 8" Figure 100/200/206 nuts are interchangeable with reliable brands

### Material

- Forged steel meeting AISI standards

### Specifications

- Cold working pressure: Figure 50, **500 PSI**; Figure 100, **1,000 PSI**; Figure 200/206, **2,000 PSI**

### Approval


- Nuts meet AISI standards



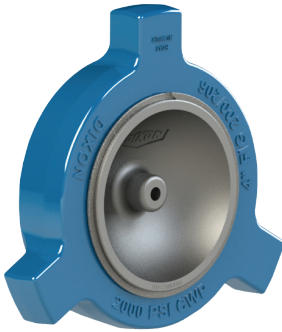
HU200800RN



HUS500RN

Dixon® recommends using Loctite® Threadlocker Red 271™ when bolting together two-piece hammer union nuts to ensure that bolts do not loosen when in service.  Option two is to weld the seams of the split nut. Bolt torque recommendation is 60 foot pounds.

## Figure 206 Low Profile Hammer Union Blanking Cap



### Application

- Prevents leakage of hydraulic fracturing fluids from hammer union connections used on manifolds and hose assemblies; equipment can be in pressurized service or in transit to an alternate location

### Sizes

- 2", 4", 6", and 8"
- 4" also available in Figure 100
- 5" Figure 50 (suction) threads

### Features

- Low profile design for tight applications
- Designed with reusable bull plug to rebuild cap
- Includes a threaded bolt hole for attaching chain or cable
- Optional chain made of welded grade 30 steel and zinc plated for longer life

### Materials

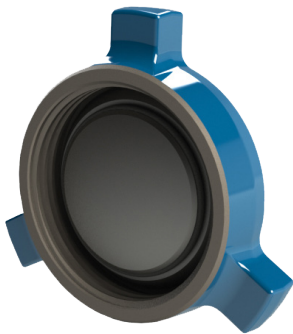
- Bull plug: iron to ASTM standards
- Nut: forged steel meeting AISI standards
- Bolt: Grade 8 carbon steel

### Specification

- Bull plug style cap assembly contains: figure 206 nut, bull plug body, and retaining ring

### Approvals

- Bull plug meets ASTM standards
- Nut meets AISI standards



HUC206400

## Figure 207 Caps and Plugs

### Application

- Prevents leakage of hydraulic fracturing fluids from hammer union connections used on manifolds and hose assemblies; the fracking equipment can be in pressurized service or in transit to an alternate location

### Size

- Cap: 4" with Figure 206 threads
- Plug: 4", 6", and 8" with Figure 206 threads; 5" with Figure 50 (suction) threads

### Features

- Caps and plugs are produced of forged steel to ensure longevity, reliability, and performance
- Cap is designed with larger lugs for easier installation and disassembling
- Cap design includes a threaded bolt hole for attaching chain or cable
- Plug is designed with larger handle for easier installation and disassembling
- O-ring clevis for plug is 316 stainless steel
- Plug design includes a handle hole to attach chain or cable
- Optional chain made of welded grade 30 steel and zinc plated for longer life

### Materials

- Caps and plugs: forged steel meeting AISI standards
- Bolt: grade 8 carbon steel

### Approvals

- Caps and plugs meet AISI standards



HUC207400



HUP207400

## One-Piece Flange Adapters

### Application

- Used in the transfer of water, brine, water-based chemicals, water-based acids, and gelatinous proppant (sand) slurry at hydraulic fracturing sites

### Sizes

- 4", 6", and 8" with 125 lb. flanges (150 lb. bolt hole pattern)
- 4" and 8" with butterfly valve flange dimensions
- 5" sizes in limited end configuration offerings

### Features

- No welds or pipe threads to deteriorate causing premature leakage
- Two-piece nut is pinned and bolted for perfect alignment
- Figure 206 threads are interchangeable with other reliable brands
- Flanges are compatible with other reliable brands with 150 lb. or butterfly flange bolt hole patterns

### Materials

- Adapters: iron meets ASTM standards
- Nuts: forged steel to AISI standards

### Specifications

- Flange x female or male hammer union straights (standard or short length)
- 45° flange adapter in female and male (flange x hammer union)
- 4" 45° and 90° elbows with two-piece nuts (male x female)
- 4" tees and spool adapters come in multiple end configurations

### Approvals

- Adapters meet ASTM standards
- Nuts meet AISI standards



HUF206400FLG

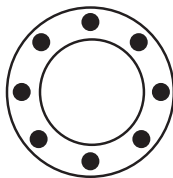


HUM206400FLG

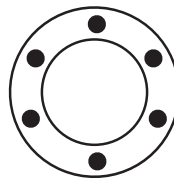


HUM206400FLG-1

### 150 lb. Flange



### Butterfly Valve Flange



HUHA-4



HUHA-5



HUF206400FLG-45



4FAMT

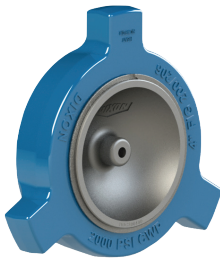


4HFAV  
flange x groove



HUMF20640090

## Figure 206 Female Port Adapters



HUC206200



HUF206200MT

### Application

- Adapter and cap used with 3-port and 5-port intake manifolds that feed proppant slurry to HHP pumps used in hydraulic fracturing

### Size

- 2"

### Features

- Low profile design for tight applications
- Designed with reusable bull plug to rebuild cap
- Female adapter with wrench flats for ease of installation
- Optional cable is galvanized carbon steel with aluminum ferrules for longer life

### Materials

- Nut: forged steel nut meeting AISI standards
- Female adapter: iron
- Bull plug: iron
- Bolt: Grade 2 carbon steel

### Approvals

- Steel adapters meet AISI standards
- Iron bull plug meets ASTM standards

## Dixon® Butterfly Valves

### Applications

- Low pressure transfer of water, acids, chemicals, slurries, and other liquids
- Designed for all low pressure hydraulic fracturing applications

### Size

- 2", 3", 4", 5", 6", and 8"

### Features

- Locators around the outer edge of the body allow the valve to easily line up at center
- Thicker stems compared to other brands delivers a more durable and reliable performance
- 10 position throttling handle for control accuracy
- For use between two butterfly valve or ANSI flanges

### Materials

- Body: ductile iron
- Disc options: NPDl, SS, Halar coated NPDl, and carburized 8620
- Seat options: cold nitrile rubber (CNBR), FKM, and red natural rubber (RNR)"
- Bushings: PTFE
- O-rings: nitrile rubber
- Stems: 416 stainless steel
- Retainer pins: 302 stainless steel

### Specification

- 2"-6" CNBR and FKM rated to **200 PSI**; 8" CNBR rated to **175 PSI**; 4" and 5" RNR rated to **50 PSI**
  - CNBR: **-20°F to 200°F (-28°C to 93°C)**
  - FKM: **0°F to 200°F (-17°C to 93°C)**
  - RNR: **-20°F to 150°F (-28°C to 65°C)**



4BF416DITF-CNBR

Part numbers, 2D drawings and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

## 3 and 5 Port Intake Manifolds and Manifold Assemblies

### Application

- Used in the transfer of water, brine, water-based chemicals, water-based acids, and gelatinous proppant (sand) slurry used at hydraulic fracturing sites

### Size

- 6" intake – threaded NPT, Figure 206 hammer union or grooved end connection
- Available in 3 port model with 12" port spacing, or 5 port model with 10", 10.5", or 12" port spacing

### Features (all models)

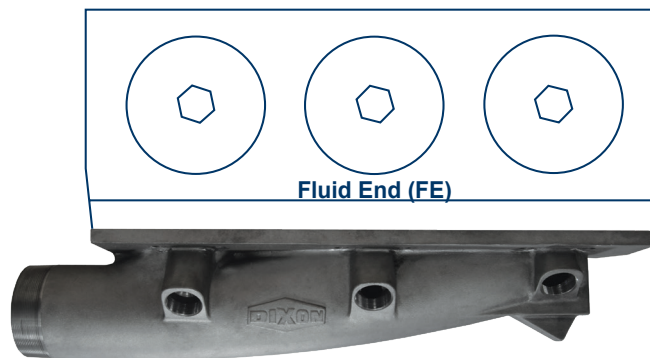
- Manifold designed for efficient fluid flow, reduced turbulence, and reduction of pump cavitation caused by sand fallout
- Single cast unit with no welds to deteriorate causing premature leakage/failure
- Cold pressure and impacted testing completed at **-62°F (-52°C)** with no leaks, cracks, or damage
- Rear ports designed for inspection and instrumentation
- Side ports designed for easy pump cylinder inspection
- Reduced height for ease of installation
- O-rings included with all configurations
- Dressed assembly components are available hand-tight or with two-part epoxy bond
- Assembly serial number and fabrication date recorded on attached identification plate

### Features (10.5" and 12" 5 Port models)

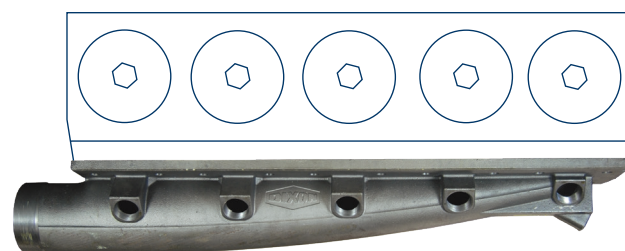
- Manifold allows for clean-out ports on either side, both sides, or with no clean-outs
- Forklift pockets provided for easy installation

### Materials

- Iron meeting ASTM standards
- O-rings: nitrile rubber



3PORTM-6T



5PORTM-6T

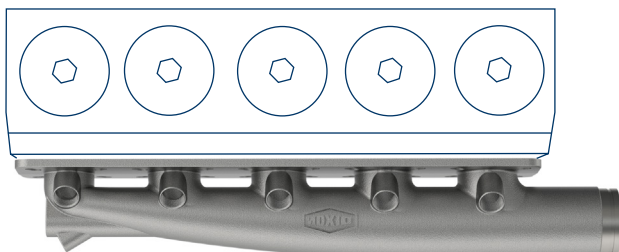
### Specifications

- Base plates configured for commonly used frac fluid ends (e.g., bolt hold pattern)
- Assemblies rated at **350 PSI WP**, pressure tested at **700 PSI**
- Manifold is configurable (e.g. fully dressed, partially dressed, undressed, etc.)
- Patented

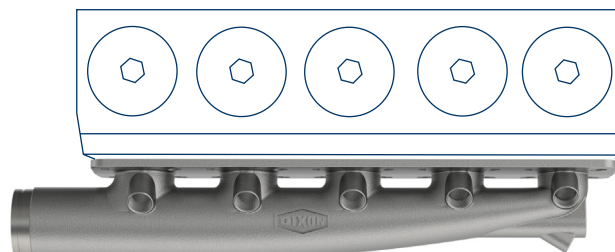
### Approval

- Iron meets ASTM standards

### 5 Port, 10-1/2" Spacing

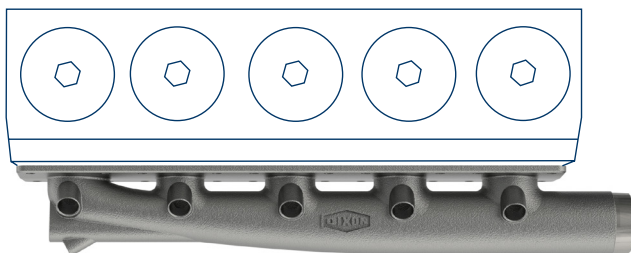


5SPORT105M-6TL

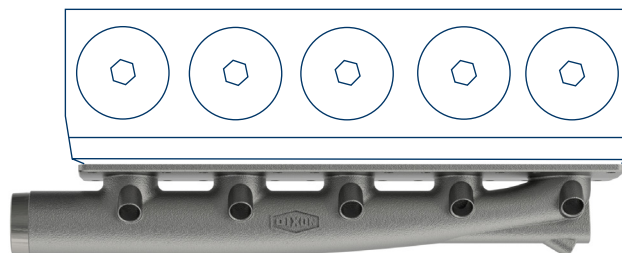


5SPORT105M-6TR

### 5 Port, 12" Spacing



5SPORT120M-6TL



5SPORT120M-6TR

Part numbers, 2D drawings and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

## 5 Port Intake Manifolds and Manifold Assemblies

(continued from page 11)



5PM6T-S7

## Positive Displacement Pumps

### Application

- Accurately transfer liquid additives to the blender that produces slurry used in hydraulic fracturing operations

### Features

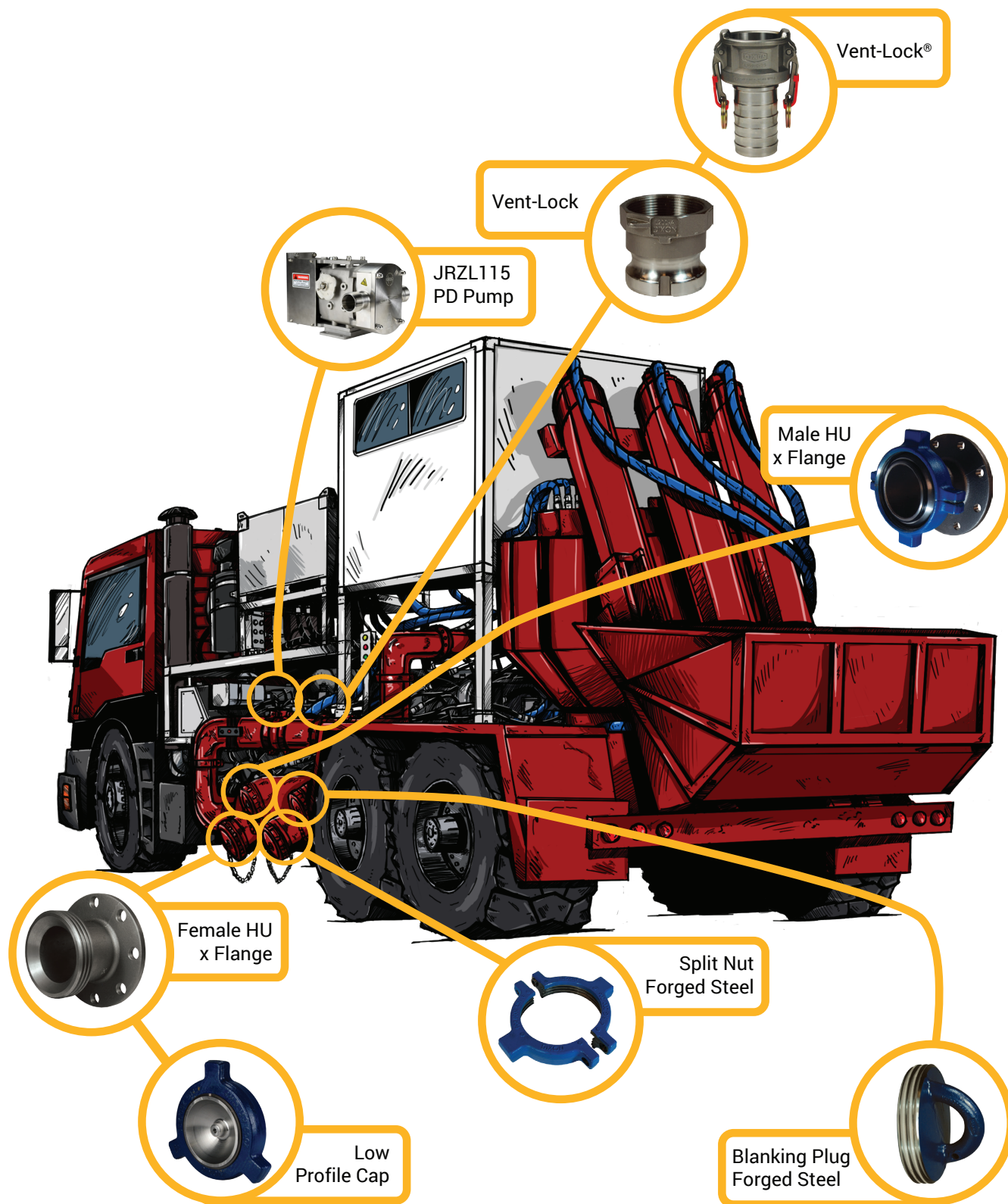
- Front loading seals allow for fast and easy maintenance
- Stainless steel gear box standard
- Male NPT port connections standard
- Base plate adapters available to mate with OEM pump footprint
- Hydraulic motor adapter housing that can be used multiple times when replacing pump
- Other adapter mounting plates available to fit unique applications
- One pump that handles various flow rates

### Materials

- All wetted parts: 316L stainless steel
- Elastomer seals: EPDM, nitrile, FKM



Size	Part #	Description
1-1/2"	RZL115-FRAC2-A	pump with adapter housing to connect with SAE-A hydraulic motors
	RZL115-FRAC2-B	pump with adapter housing to connect with SAE-B hydraulic motors



## Cam & Groove



400-C-MI

### Application

- Used as fittings for sand and ceramic proppants (material that keeps an induced hydraulic fracture open following a fracturing treatment)

### Sizes

- 1-1/2", 2", 3", 4", and 6"

### Materials

- Unplated, plated malleable iron, or ductile iron

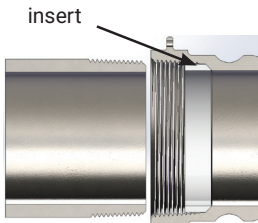
### Specification

- Adapters also available, visit [dixonvalve.com](http://dixonvalve.com) for more information



400-E-MI

## Abrasion Resistant Inserts



### Application

- Extends the life of adapters and couplers when transferring proppant to storage tanks

### Size:

- 4"

### Features

- Abrasion resistance extends service life
- Available for multiple adapter materials including aluminum, brass, malleable iron, and stainless steel
- Available for multiple coupler materials including aluminum and malleable iron

### Materials

- Insert: UHMW polyethylene
- Adapter: aluminum, brass, iron, and stainless steel
- Coupler: aluminum and malleable iron

### Specifications

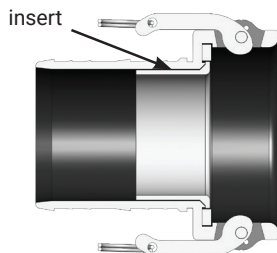
- Adapter x female NPT with insert, coupler x hose shank with insert



400-A-BRINSERT



400-C-MIINSERT



Part numbers, 2D drawings and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

## Vent-Lock<sup>®</sup> Safety Cam & Groove

### Application

- Transfer of fluids and solids, with a safer disconnection


### Sizes

- 1", 1-1/2", 2", and 3"

### Materials

- 316 stainless steel
- Other materials to be available, contact Dixon<sup>®</sup>

### Features

- Permits the release of static pressure when disconnecting hose assemblies
- Venting system protects operator from being sprayed with hazardous or non-hazardous fluids or solids
- Does not interchange with standard cam and groove products, use only with Dixon L-style fittings 
- Safety orange cam arms
- Attachment options: ferrules, sleeves, bands, and other reliable options

### Specifications

- Rated to **250 PSI**, recommendation based on the use of mating Dixon L-style fittings at ambient temperature **70°F (21°C)** with standard nitrile seal installed, for use at elevated temperature or other unusual operating conditions, consult Dixon
  - 1", 1-1/2", and 2" sizes have a maximum working pressure of **250 PSI**
  - 3" maximum working pressure **150 PSI** with King Crimp ferrules, crimp sleeves and bands at **125 PSI**
- Adapter x female NPT, coupler x hose shank, adapter x hose shank, dust cap, and dust plug



## EZ Boss-Lock Cam & Groove

### Applications

- Suitable for water, chemical, acid, and crude transfer as well as other petrochemical applications

### Sizes

- 1" - 6"



### Material

- 316 stainless steel

### Features

- Positive lock handles - prevent accidental uncoupling
- Handles lock automatically when closed

### Specifications

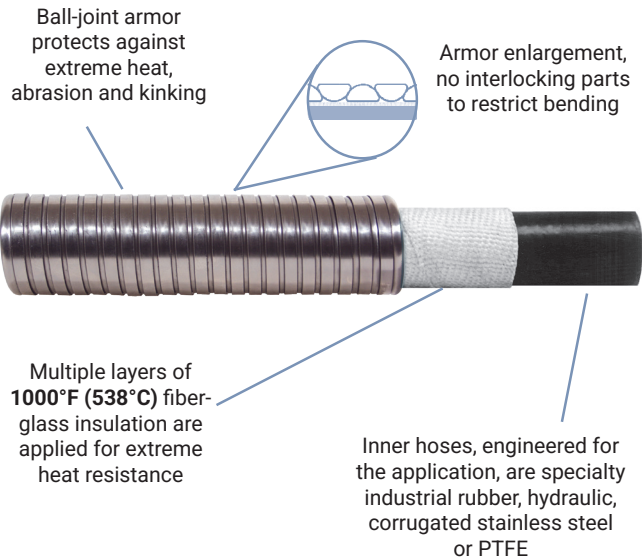
- Working pressures are available, call Dixon or visit [dixonvalve.com](http://dixonvalve.com) for information
- Coupler x male NPT, coupler x hose shank, coupler x female NPT, and dust cap
- Not recommended for compressed gas, air, or steam 
- Under no circumstances should the EZ Boss-Lock cam arms be used on any fitting not specifically designed for their use 



NOTE: Our complete line of cam and groove products can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com).

Part numbers, 2D drawings and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

## GSM Armored Hose



### Applications

- Fluid transfer and hydraulic hose assemblies on drilling platforms, blenders and mobile off-highway equipment for supporting oil and gas services in the field

### Sizes

- 1/4" through 16" bore with lengths to 120'

### Materials

- Armor: galvanized steel or stainless steel

### Features

- Extremely flexible armor protects from heat and harsh environments in applications for steam, water, gases, hydraulic fluids, grease and abrasives
- Wide selection of inner hoses specific to the demands of the application are industrial, hydraulic, stainless steel, or PTFE

### Specifications

- Heat resistant insulation to 1000°F (538°C)
- Temperature rating depends on specific applications, consult Dixon
- A variety of end connections are available

## King Safety Whipsocks

### Applications

- Ideally suited for applications where the media being transferred is under higher working pressures such as air, water, hydraulic, and slurry

### Sizes

- 3/8" through 6"

### Materials

- Wire rope: galvanized carbon steel
- Ferrules: aluminum



KSW40

### Features

- Keep the hose under control in the event of a high-pressure hose assembly failure
- Dual anchor points secured beyond the fittings eliminate hose whip
- Galvanized steel woven stockings extend down the hose to grip securely over a larger area preventing whip, abrasion, and wear
- Securing both eye-to-rigid or eye-to-eye anchor points reduce whip in the event of a hose connection failure



### Specifications

- Contact Dixon at 877.963.4966 with questions regarding working pressure, available options or custom configurations
- King safety shackles are available to anchor the Whipsocks
- Be sure the anchoring points are rated for the application

Part numbers, 2D drawings and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

## Dixon<sup>®</sup> MannTek Dry Disconnects and Dry Gas Couplings

### Application

- Dry Disconnect Couplings (DDC): Ensures a quick and spill-free connection in the bulk transfer of hazardous and non-hazardous fluids
- Dry Gas Couplings (DGC): Primarily used for the handling of LPG – Propane and Butane. Used in frac dual fuel operations.

### Features

- Coupler has built-in swivel
- Shaft journal in stainless steel embedded in PTFE eliminates seizure
- Riveted piston pin minimizes the risk for failure under extreme pressure conditions

### Sizes

- Dry Disconnect: 1" though 6"
- Dry Gas: 1" though 3"

### Materials

- Stainless steel (DDC and DGC) and aluminum (DDC)
- Rollers: aluminum-bronze on stainless steel shaft
- Ball bearings: stainless steel
- Protective ring is a specially formulated, weather resistant and electrically conductive rubber compound



2DDC200SS



2DGC200SS

## Bayloc<sup>®</sup> Dry Disconnects

### Sizes

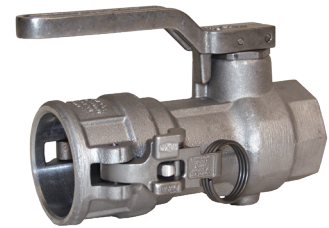
- 1-1/2", 2", and 3" couplers and adapters, additional sizes available

### Materials

- Stainless steel or aluminum
- For information on chemical compatibility and material selection call Dixon at 877.963.4966 or visit [dixonvalve.com](http://dixonvalve.com)

### Features

- Compatible with most cam and groove style dry disconnects, fully interchangeable with Kamvalok<sup>®</sup> style fittings
- Spring loaded sealing device "snaps" closed should the valve become disconnected with the poppet open
- Two-piece adapter design allows easy rebuilding of adapters
- EZ Boss-Lock cam arms provide security against accidental opening
- Automatic closing poppet assembly
- Stainless steel handle allows product exposure to corrosive chemicals or washdown service



DBC72-200



DBA72-200

## Safety Breakaway Couplings

### Application

- Used most commonly on tank trucks, railcars and barges to limit the possibility of environmental impact and loss of product resulting from a break in a connection

### Sizes

- 2", 3", 4", 5", 6", and 8"

### Materials

- Industrial version: 316 stainless steel or aluminum
- Marine version: 316 stainless steel
- Seal: FKM (FPM) standard

### Features

- Industrial version – fixed point to hose
- Marine version – hose to hose
- Coupling automatically senses an excessive load, closes the valves and disconnects
- High flow rate/low pressure drop

### Specifications

- Working pressure: stainless steel **360 PSI** and aluminum (industrial version) **230 PSI** at ambient temperature **70°F (21°C)**
- Available configurations: female NPT, male NPT and 150# flange



SBC200SS

Part numbers, 2D drawings and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

## VEP and VEP-BOP Series

### Thread To Connect Flush Face



VEP-Series



VEP-BOP-Series

#### Application

- Used in a variety of drilling rig applications and hydraulic power units where the ability to connect and disconnect under pressure is necessary

#### Sizes

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

#### Materials

- Coupler and nipple: steel
- Dust cap and plug: aluminum body with steel cable lanyard

#### Features

- Threaded, no spill design provides the ideal solution for high pressure, high impulse applications
- Connect and disconnect under pressure
- Patented valve retention system minimizes pressure drop and maximizes connection and pressure performance
- Zinc nickel plating provides superior corrosion resistance

#### Specification

- Interchanges with Stucchi VEP/VEP-HD, DNP PST4/FSI, Holmbury HFT, and Parker FET

#### Approval

- Blow-out preventer (BOP) version available, fire tested and Lloyd's certified in accordance with API 16D

## WS and WS-BOP Series

### Heavy Duty Thread To Connect



WS-Series



WS-BOP-Series

#### Application

- Extensively used in a variety of oilfield applications

#### Sizes

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

#### Materials

- Coupler and nipple: steel or 316 stainless
- Dust cap and plug: aluminum body with steel cable lanyard

#### Features

- Connect under residual pressure
- Durable sleeve is cast using a process that provides improved surface finishes, tighter tolerances, and excellent repeatability
- Heavy duty "spider" valve holder withstands surge flow and pressurized connections
- Seals are easily field replaceable

#### Specification

- Interchanges with Snap-Tite 75, Hydraulics Inc 5TV, Stucchi VOF, DNP VFF-HD, Faster OGV, and Eaton FD85

#### Approval

- Blow-out preventer (BOP) version available, fire tested and Lloyd's certified in accordance with API 16D

Part numbers, 2D drawings and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

## W-Series Wingstyle Interchange

### Application

- Used to connect hydraulic lines on oilfield equipment such as tongs, swivels, and other drill rig applications

### Sizes

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

### Materials

- Coupler and nipple: brass, steel wing nut
- Dust cap and plug: steel body with steel cable lanyard
- Nipple mounting flange: steel

### Features

- Threaded wing or hex sleeves enable easy connection and disconnection while under residual pressure
- O-ring connected marker is highly visible during connection and helps keep contaminants out of the threads while connected
- Coupler has a improved hybrid valve design to reduce pressure drop and turbulence while improving flow performance
- Bulkhead mounting kits available
- Flanged bonded seal prolongs coupling life and is integral in the reduction of spillage and air inclusion
- Couplers and nipples have a full hex body for easy installation



### Specifications

- Interchanges with Eaton 5100, Parker 6100, Snap-Tite 78, Safeway S51, and Stucchi W

## HT-Series ISO 16028 Flush Face Interchange

### Application

- No-spill coupling used to connect hydraulic lines on construction equipment, hydraulic tools, and other hydraulic systems

### Sizes

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

### Materials

- Coupler and nipple: steel or 316 stainless
- Dust cap and plug: nitrite

### Features

- Patented coupler retention system prevents valve stem ejection during surge flow and pressure spike conditions while maximizing flow performance
- High strength laser-cut valve guide in nipple improves valve stability while minimizing flow restriction
- Designed to exceed 1,000,000 impulse cycles both connected and disconnect
- Zinc nickel plating provides superior corrosion resistance
- Available with the Correct Connect color-coded band system



### Specifications

- Interchanges with Parker FEM, Eaton FD89, Stucchi FIRG/Series A, Faster FFH, and Safeway FF49

Part numbers and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

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## ST-Series

### Flush Face 71 Interchange



#### Application

- Use in hydraulic applications where a no-spill coupling with higher working pressures and rugged design is required

#### Sizes

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

#### Materials

- Coupler and nipple: steel or 316 stainless
- Dust cap & plug: aluminum body with steel cable lanyard

#### Features

- Flush face valve design minimizes air inclusion during connection and spillage during disconnection
- Heavy duty construction for abusive applications
- Bulkhead mountable grooved sleeve for breakaway, multi-plate or blindmate installations

#### Specification

- Interchanges with Snap-Tite 71-Series

## T-Series

### High Pressure Thread To Connect Interchange

#### Application

- Designed for high pressure applications such as hydraulic rams and pumps where pressure up to **10,000 PSI** is possible

#### Sizes

- 1/4" and 3/8"

#### Materials

- Coupler and nipple: steel or 316 stainless
- Dust cap: steel body with steel cable lanyard
- Dust plug: steel body with nitrile lanyard
- O-ring: nitrile with TPC-ET back up ring

#### Features

- Threaded sleeve allows connection and disconnection while coupler and/or nipple are under pressure
- Ball valve and poppet valve styles available

#### Specifications

- Interchanges with Parker/Pioneer 3000, Enerpac C604, Stucchi IVHP, and DNP PVM

NOTE: Enerpac® is a registered trademark of the Enerpac Company



Part numbers and additional information can be found at [canada.dixonvalve.com](http://canada.dixonvalve.com)

## TD-Series: 15K and 20K Pressure Couplings

### Application

- Commonly used on water-blast or wireline equipment and pump systems

### Sizes

- 1/2" body
- 1/2" FNPT or 9/16" MP threads

### Features

- Unvalved, high flow
- Thread to connect
- Dust caps and plugs available

### Materials

- Machined components are manufactured using 316 stainless steel bar stock
- Stainless steel retaining ring maximizes corrosion resistance and extends service life
- Couplers have a nitrile anti-extrusion ring, providing resistance to O-ring dynamic impulse pressure damage
- Nitrile rubber seals are standard

### Specifications

- Temperature range: **-40°F to 250°F (-40°C to 121°C)**
- **15,000 PSI** for NPTF threads; **20,000 PSI** for MP threads
- Interchangeable with SPIR STAR® CQD Series, DNP CRS Series, and Jetstream Screw Type



4TDF4-SS



TD4F4-SS



4TDPF4.5-SS



TD4PF4.5-SS

## CNG-Series Gas Couplings

### Applications

- Used to facilitate the large volume transfer of high-pressure compressed natural gas (CNG) for applications such as virtual CNG pipelines, mining, oil exploration, well site development, and remote location natural gas delivery

### Size

- 1"

### Material

- 303 stainless steel

### Specifications

- Designed to ISO7241-B Series profile
- **5,000 PSI** maximum working pressure

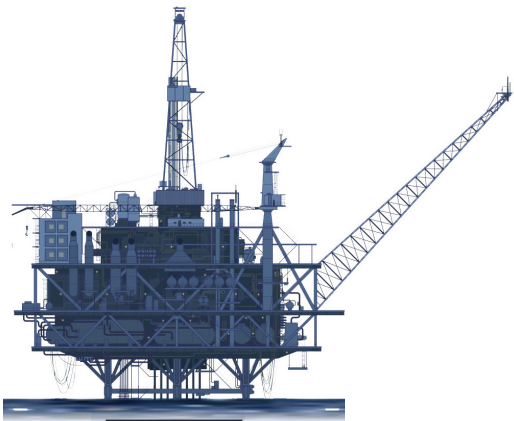
### Features

- Meets CNG service requirements
- Improved body and valve design provides a 30% increased flow performance over standard ISO-B designs
- Latch mechanism provides brinelling resistance
- Locking sleeve design prevents accidental disconnection
- Captured valve O-ring for reliability in high-flow conditions
- CNG plugs supplied with combination dust cap/plug
- Non-sparking material
- Full CRN approval

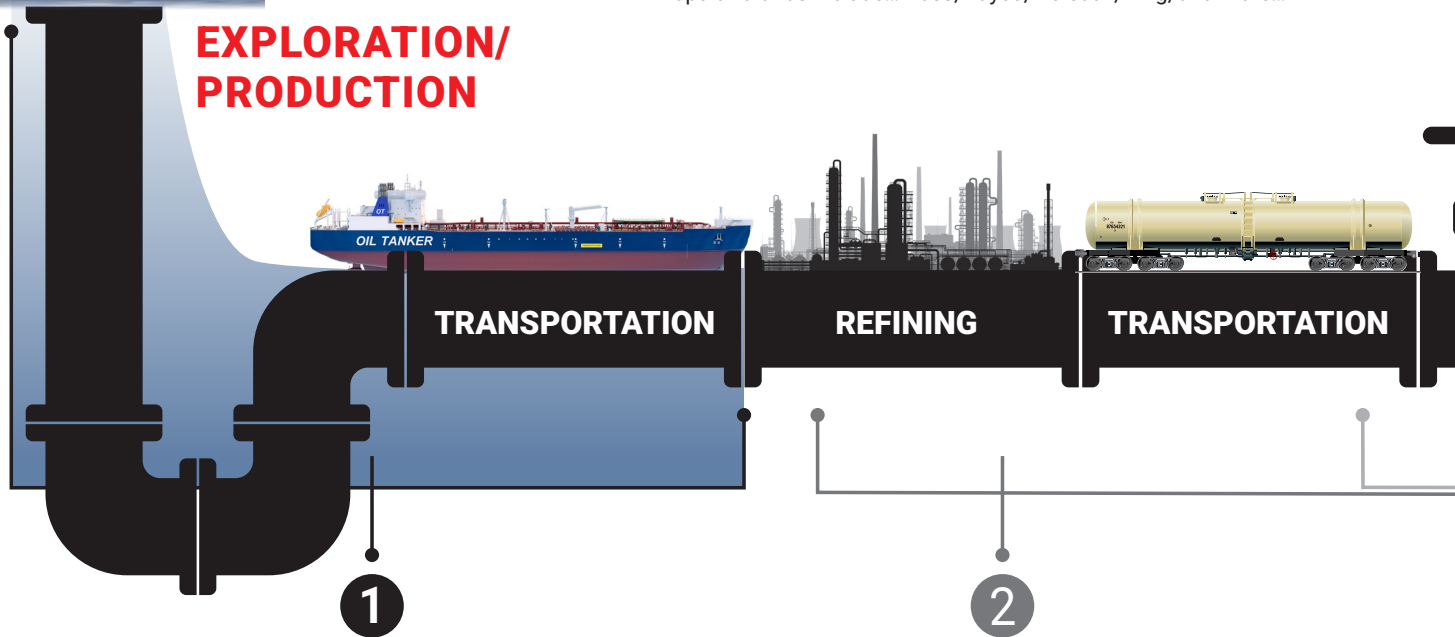
### Interchange Data

- Interchangeable with Oasis 300-Series
- Interchangeable with Eclipse VQ-Series





## EXPLORATION/ PRODUCTION



### Pet•ro•chem•i•cal

*noun*

Any chemical derived from petroleum or natural gas.

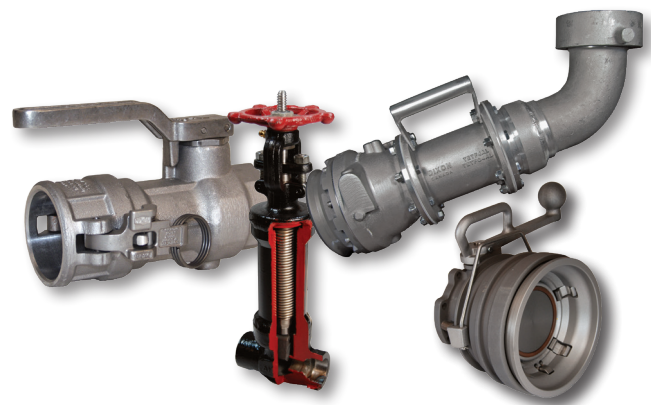
Many countries, many cultures, but the same Petrochemical Life Cycle applications using DIXON products for safe and reliable fluid transfer.

Popular brands include... Boss, Bayco, Holedall, King, and more...



### Exploration and Production

- Boss® Low Pressure System Products
- Frac Fittings
- King Crimp® System
- Hammer Unions
- Control Valves
- Holedall® Couplings
- Tank Truck and Rail Car/API Fittings and Assemblies



### Refining

- Dry Break Couplings
- Cam & Groove
- Dry Disconnects
- Ground Joint Systems
- Valves
- API Fittings

# The Petrochemical Life Cycle



3



**Terminal**

- Safety Breakaways
- Top Loading Valves
- Vapor Couplings
- TTMA Extensions
- Loading Arm Swivels
- Counterweight Loading Arms
- A-Frame Loading Arms







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NOTE: Because of the health hazards associated with contamination and lead content in drinking water systems, Dixon couplings, unless otherwise specifically approved, are not recommended for potable water service and should not be used in applications where drinking water will contact the wetted surfaces of the coupling.



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