Dixon Bayco Petroleum and Overfill Catalog

DIXON

The Right Connection®

2024

877.963.4966
dixonvalve.com

Locations, Terms and Conditions

North American Manufacturing and Warehouse Locations

- ● Distribution Center
- ● Factory
- ◉ Distribution Center / Factory
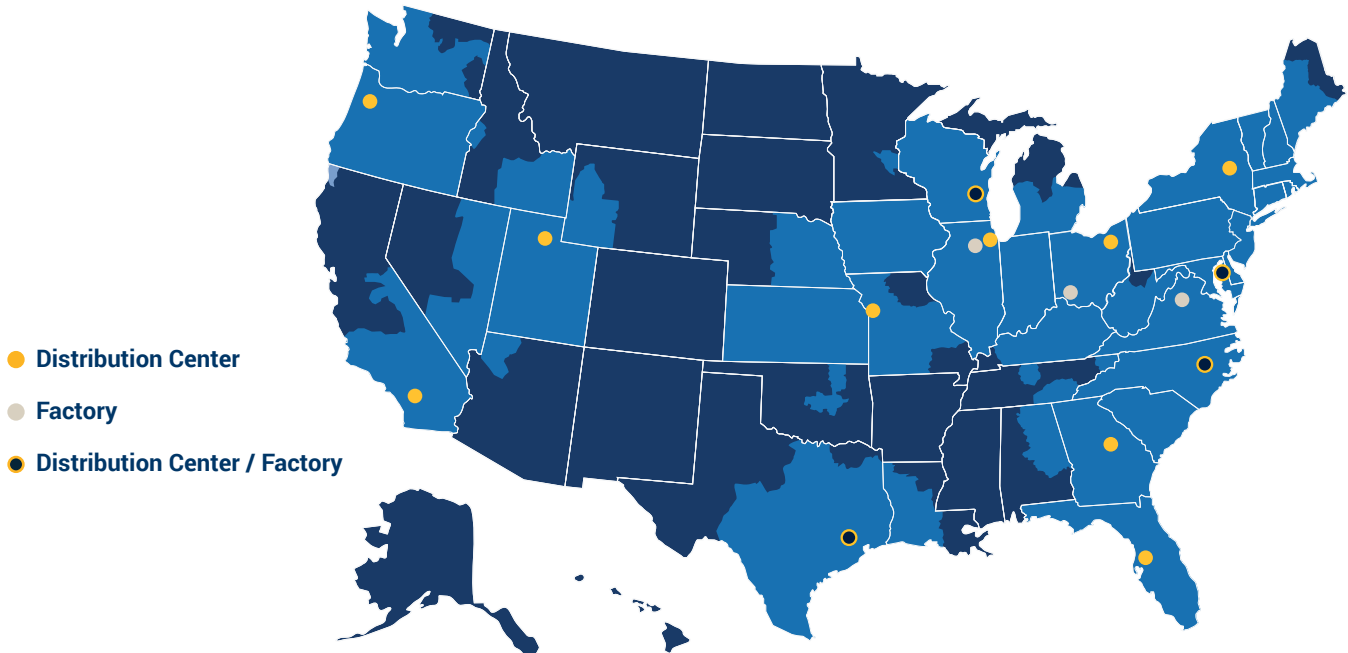
Factories:
Chestertown, MD • Cincinnati, OH • Dallas, NC • Houston, TX • Pewaukee, WI • Westmont, IL • Winchester, VA

Distribution Centers:
Chestertown, MD • Dallas, NC • Gloversville, NY • Houston, TX • Itasca, IL • Kansas City, MO • Peachtree City, GA • Pewaukee, WI • Portland, OR • Rancho Cucamonga, CA • Salt Lake City, UT • Tampa, FL • Twinsburg, OH

Terms
Net 30 Days

Cash Discounts
Invoices dated 1st to the 14th of the month are subject to a 1% discount if paid by the 25th of the month. Invoices dated the 15th to the end of the month are subject to a 1% discount if paid by the 10th of the following month.

Claims
All claims must be made within 10 days of receipt of merchandise.

Drop Ship Fees
Dixon will charge a flat fee of $5.00 on all drop shipments less than $100.

Minimum Order and Invoice
All orders for less than $35.00 Net Value will be subject to a Minimum Net Charge of $35.00 plus transportation.

Prepaid Freight Allowance
All shipments are FOB factory or branch and shipped collect unless otherwise specified. Orders totaling $1,500.00 net value or more for immediate shipment to a single location within the continental United States will be shipped freight free. Any items back ordered against the same order will also be shipped prepaid as they become available. Method of shipment will be the most economical means available to Dixon and does not include priority shipments such as air freight.

Returns
Material shipped as ordered may be returned only with Dixon's permission. A Credit Memo will be issued subject to a minimum 15% handling charge (using the distributor's net price in effect at the time of purchase). Total returns in 1 year cannot exceed 5% of the previous year's purchases. Certain products are excluded from this general return policy; contact Dixon for information on specific products.

Prompt Payment
Orders receive preferred treatment when the account is paid promptly. Orders may be temporarily held if any unpaid invoice is over 30 days. We reserve the right to take out of the shipping and production schedules orders from accounts with unpaid invoices of 60 days or more.

We Commit

- To ensure that internal and external customer needs are identified and that our products and services meet these needs
- To fully meet and exceed the requirements of the ISO 9001 Quality Program
- To strive for quality in each and every phase of our business
- To exceed competitor's quality
- To provide systems and training for all Dixon employees
- To create an environment that will allow each employee to do it right the first time, and accept the responsibility for quality in each and every task they perform
- That no employee will ever be called on to do anything morally, legally or ethically wrong
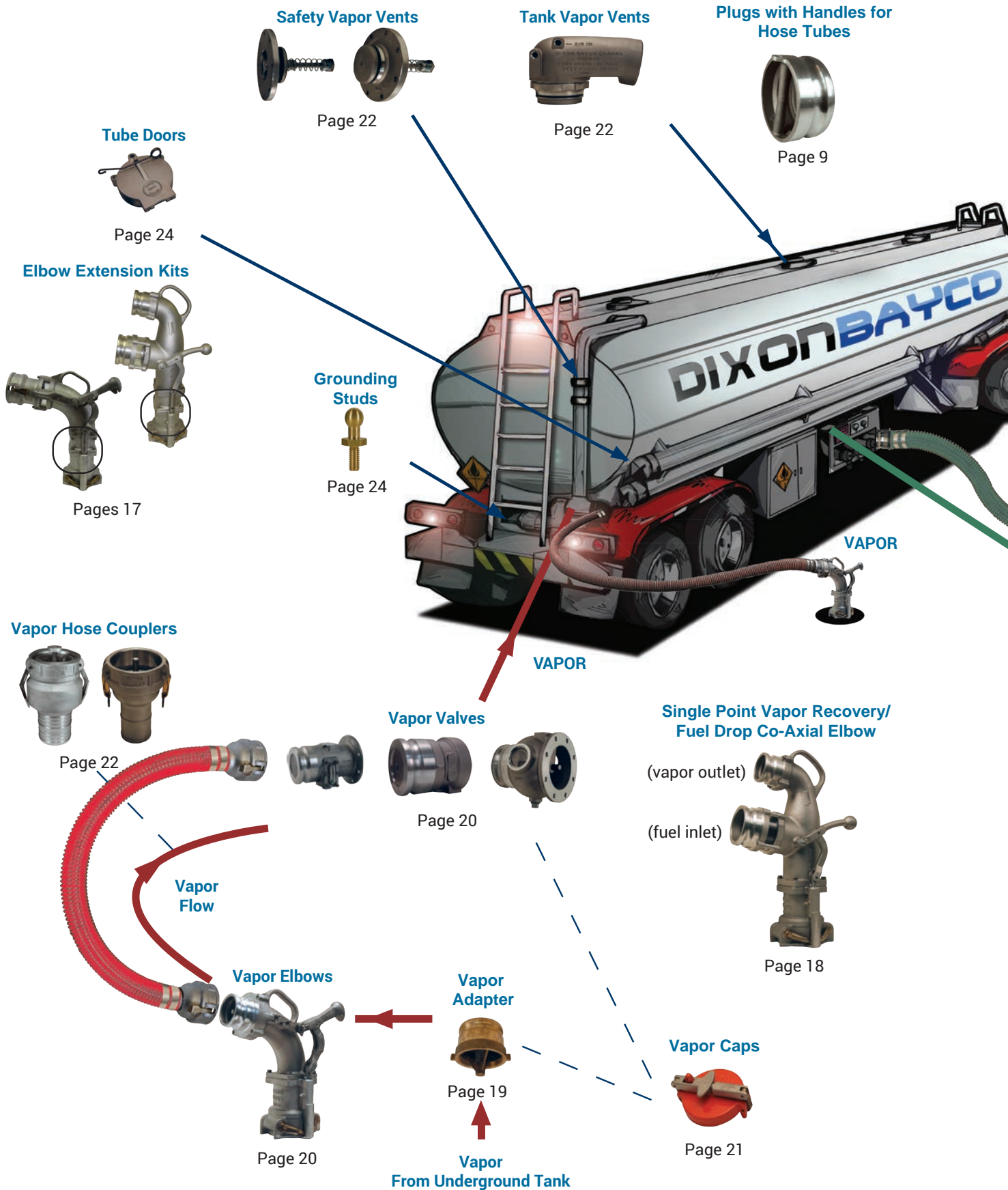
Biofuel Compatible 🌿

Fuel Product 1

Dixon Bayco Product	Page	Description	Gasoline	Diesel	ULSD	Crude Oil	E10	E20	E85	E100	B2	B20	B100
4500-Series	8	two piece API drop adapter with sight glass, Baylast™ seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4500V-Series	8	two piece API drop adapter with sight glass, FKM seals	✓	✓	✓	✓	NR	NR	NR	NR	✓	✓	✓
4530 & 4540	8	API drop adapter without sight glass, Baylast seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4530V & 4540V	8	API drop adapter without sight glass, FKM seals	✓	✓	✓	✓	NR	NR	NR	NR	✓	✓	✓
4530SG & 4540SG	8	one piece API drop adapter with sight glass, nitrile rubber seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	NR
4530SGV & 4540SGV	8	one piece API drop adapter with sight glass, FKM seals	✓	✓	✓	✓	NR	NR	NR	NR	✓	✓	✓
5200SFI & 5200SFI-3	7	TTMA flanged sight glass with Baylast seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5200SFIV & 5200SFIV-3	7	TTMA flanged sight glass with FKM seals	✓	✓	✓	NR2	NR	NR	NR	NR	✓	✓	✓
5204	7	API valve with sight glass, Baylast seals	✓	✓	✓	NR2	✓	✓	NR	NR	✓	✓	✓
5204C	7	API valve with sight glass and removable handle, Baylast seals	✓	✓	✓	NR2	✓	✓	NR	NR	✓	✓	✓
5204L	7	API load only valve with sight glass, Baylast seals	✓	✓	✓	NR2	✓	✓	NR	NR	✓	✓	✓
5204LNG	7	API load only valve without sight glass, Baylast seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5204NG	7	API valve without sight glass, Baylast seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5204NGC	7	API valve without sight glass, removable handle, Baylast seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5204NGV	7	API valve without sight glass, FKM seals	✓	✓	✓	NR2	NR	NR	NR	NR	✓	✓	✓
5204SFI	7	API valve with inline tube sight glass, Baylast seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5204SNG	7	API valve without sight glass, Baylast seals, stainless spring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5204TNG	7	API valve without sight glass, PTFE seals	NR1	NR1	NR1	NR1	NR1	NR1	NR1	NR1	NR1	NR1	✓
5500BL	32	API rack coupling Baylast seals	✓	✓	✓	NR	✓	✓	✓	✓	✓	✓	NR
5500B	32	API rack coupling FKM-B seals	✓	✓	✓	NR	✓	✓	✓	✓	✓	✓	✓
5500G	32	API rack coupling FKM gflt seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
6000, 6200, 6500 & 6600 Series Drop Elbows	14-17	petroleum drop elbows and inlets, nitrile rubber seals	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	NR
Vapor or Product Hose Couplings	22	petroleum vapor hose couplings, nitrile rubber seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	NR
Vapor or Product Hose Couplings	22	petroleum vapor hose couplings, FKM seals	✓	✓	✓	✓	NR	NR	NR	NR	✓	✓	✓
VR4000 & VR4100 Series Vapor Valves	21	petroleum vapor valves	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VR6100, VR6200 & VR6500 Vapor Elbows	20	petroleum vapor elbows and inlets	✓	✓	✓	NA	✓	✓	✓	NA	✓	✓	NA
VR6030SQ & VR6035SQ	22	sequential vapor vent valves, Baylast seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
300GTTFCB & 400GTTFCB	13	cork nitrile rubber TTMA gasket	✓	✓	✓	✓	✓	NR	NR	NR	✓	NR	NR
300GTTFBL & 400GTTFBL	13	TTMA Baylast gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
400GTTFK	13	Klinger® style TTMA gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40321TF, 40322TF & 40323TF	13	PTFE soft core TTMA gaskets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40364BL & 40323BL	13	Baylast sump gaskets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FT151, FT202, FT101	50, 53, 59	FloTech™ sensors	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FT150S, FT100S	60	FloTech stainless steel sensors	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Notes
NA   Not Applicable (this product is not used in this application)
NR   Not Recommended
NR1   Not Recommended cost and tendency for PTFE to become damaged from particulate material is not justified for this application
NR2   Not Recommended crude oil contains acids that are corrosive to steel parts
ULSD   Ultra low sulfur diesel (ULSD) is a term used to describe a standard for defining diesel fuel with substantially lowered sulfur contents As of 2006, almost all of the petroleum based diesel fuel available in Europe and North America is of a ULSD type
Crude Oil Oil in its natural state, as it comes from the ground. Crude oil can contain various other chemicals and gases, many of which can be corrosive.
E10   10% Ethanol, 90% Gasoline
E20   20% Ethanol, 80% Gasoline
E85   85% Ethanol, 15% Gasoline
E100   100% Ethanol
B2   2% Bio diesel, 98% diesel (normally ULSD as above)
B20   20% Bio diesel, 80% diesel (normally ULSD as above)
B100   100% Bio diesel

[1] Petroleum companies often put additives in fuels, additives can affect Compatibility with fittings and seals, Please contact Dixon® for more information. FKM GFLT is compatible with all liquids listed above and available from Dixon by special quotation. Baylast is a proprietary seal compound from Dixon

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VAPOR

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VAPOR

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(fuel inlet)

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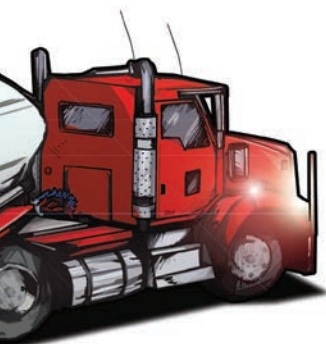
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FUEL
To Underground Tank

Petroleum Tanker Products

Bayco® and FloTech brand 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 minimize inventory of repair items.

Dixon Bayco® Bottom Loading, Gasket and Seal
Recommendations For Alternative Fuels

Dixon® has completed several years of testing and engineering evaluation to ensure our products are compatible with all modern motor fuels in use today.

Dixon uses a proprietary seal compound that we refer to by the trade name Baylast™. Baylast has been tested both in the lab and field with excellent results. Baylast was developed so we could offer a single seal material compatible with the wide range of alternative fuels used today. Many Dixon Bayco products have been using Baylast seals to ensure compatibility with alternate fuels including E100 Ethanol, E85 Ethanol, B2 Biodiesel, B100 Biodiesel, Ultra Low Sulfur Diesel, and standard refined gasoline and diesel products with excellent results. Our tests indicate that Baylast performs well down to **-40°F (-40°C)**.

There are mechanical and temperature considerations that must be understood to determine which seal material is suitable for a specific application. A good example is PTFE, it has a very wide chemical compatibility range but is a poor seal material for mechanical reasons. Using FKM-B, or FKM GF is one solution to ensure compatibility, but FKM has limitations regarding mechanical suitability for seal applications with moving joints. One critical and well known limitation to FKM is cold temperatures. FKM will become hard at low temperatures and seals with moving parts tend to weep liquid.

On the opposing page is our fuel compatibility chart which outlines our recommendation for each Dixon Bayco product and type of fuel.

Should you have any questions or need additional technical support, please call Dixon at 877.963.4966

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API Valves

Application
- Used for bottom loading and unloading of petroleum tankers, API valves are typically mounted to the piping below each tank compartment, using the built-in 4" TTMA flange connection

Two styles are available:
- 1) Load only (without handle) which permits terminal loading only. Tanker unloading would be achieved through another tank connection
- 2) Load/unload (with a handle) which permits both terminal loading, and fuel unloading through the valve

Features
- Unique fluid flow sight level [1]
- Ergonomically curved handle operates on a short 62 degree stroke (removable on some models [1])
- Any required maintenance is simplified, Dixon Bayco® API Valves can be completely rebuilt without the need to remove the valve from the tanker [1].
- Nose ring is anodized hard coat aluminum for years of trouble free service. Nose ring can be rotated to provide a fresh connection surface
- Biofuel compatible, up to E100 (100% ethanol) [1] and B100 (100% biodiesel)
- For detailed fuel compatibility, please refer to the chart shown on page 3
- Maximum working pressure: **75 PSI**
- Units with sight glass maximum: **140°F (60°C)**

Materials
- Aluminum body, and handle, [1] anodized hard coat aluminum nose ring, stainless steel hardware, Baylast™ [1], FKM [1] and PTFE seals, [1] nylon sight glass, [1] acrylic full body sight glass

Approvals
- Manufactured to American Petroleum Institute standard API RP-1004, which allows for positive connection to drop adapters and rack couplers such as the Dixon Bayco 5300/5400-Series rack coupler

[1] Dependent upon part #, see part number list below for more details

Load/Unload Valves

Part #	Description	Temperature Range	Fuel Compatibility
5204NG	fixed handle with Baylast seals (no sight glass)	-40°F to 140°F (-40°C to 60°C)	gasoline and diesel, up to E100 and B100 biofuels
5204NGC	Canadian API with Baylast seals (no sight glass)		
5204	fixed handle, Baylast seals and sight glass		gasoline and diesel, up to E20 and B100 biofuels
5204P	fixed handle, Baylast seals and sight glass, drilled/tapped boss		
5204C	Canadian API with Baylast seals and sight glass		
5204SNG	fixed handle, Baylast seals and stainless steel spring (no sight glass)	-40°F to 200°F (-40°C to 93°C)	crude oil, gasoline and diesel, up to E20 and B100 biofuels
5204TNG	fixed handle with PTFE seals (no sight glass)		B100 biodiesel
5204NGV	fixed handle with FKM seals (no sight glass)		gasoline and diesel, up to B100 biodiesel
5204SFI	fixed handle, Baylast seals and inline full body sight glass	-40°F to 140°F (-40°C to 60°C)	gasoline and diesel, up to E100 and B100 biofuels
5204SFI-P	fixed handle, Baylast seals and inline full body sight glass, drilled/tapped		

5204

5204SFI

Load Only Valves

Part #	Description	Temperature Range	Fuel Compatibility
5204LNG	Baylast seals (no sight glass)	-40°F to 200°F (-40°C to 93°C)	gasoline and diesel, up to E100 and B100 biofuels
5204LSNG	Baylast seals (no sight glass) with stainless spring		crude oil, gasoline and diesel, up to E20 and B100 biofuels
5204L	Baylast seals and sight glass	-40°F to 140°F (-40°C to 60°C)	gasoline and diesel, up to E20 and B100 biofuels

5204L

NOTE: See page 13 for TTMA flange gaskets. See pages 84-85 for bill of materials and repair kits

Biofuel compatible, see fuel compatibility chart on page 3 for more information

API Dust Caps

| 5205 | 5000-24 | 5000-25 | 5000-24L |

Part #	Description
5205	aluminum API cap with flat nitrile rubber gasket, with nylon quick release lever
5000-24 [1]	aluminum API cap with O-ring Baylast™ seal, with brass cam arms
5000-25	nylon API cap with flat nitrile rubber seal, with plated steel padlockable roller lever
5000-24L [1]	aluminum API cap with O-ring Baylast seal, with brass locking cam arms

[1] FKM seal available
NOTE: See pages 86-87 for repair parts

API Drop Adapters

Specification
• Maximum allowable operating pressure: **75 PSI**

| 4540 | 4540SG | 4502 | 4540F | 4504ASSM |

Part #	Description	Temperature Range	Fuel Compatibility
4530	API to 3" drop adapter, Baylast O-ring seal	-40°F to 200°F (-40°C to 93°C)	gasoline and diesel, up to E100 and B100 biofuels
4530G	API to 3" drop adapter no sight glass, nitrile rubber flat gasket		
4530SG	API to 3" drop adapter, Baylast flat gasket, inline sight glass		
4540	API to 4" drop adapter, Baylast O-ring seal		
4540G	API to 4" drop adapter no sight glass, nitrile rubber flat gasket		
4540V	API to 4" drop adapter, FKM O-ring seal		gasoline and diesel, up to B100 biodiesel
4540SG	API to 4" drop adapter, Baylast flat gasket, one piece, inline sight glass	-40°F to 140°F (-40°C to 60°C)	gasoline and diesel, up to E100 and B100 biofuels
4502	API to 4" drop adapter, nitrile rubber seals, two piece design with sight glass		
4540SGV	API to 4" drop adapter, FKM flat gasket, inline sight glass		gasoline and diesel, up to B100 biodiesel
4540F	API to 4" drop coupler, nitrile rubber gasket		gasoline and diesel, up to E100 and B100 biofuels
4502ASSM	API to 4" drop adapter, Baylast O-ring with sight glass, two piece design		
4504ASSM	API to 4" drop coupler, nitrile rubber gasket with sight glass, two piece design		
112054	4" replacement flat gasket	---	---

Heavy Duty Chain for API Gravity Drop Adapter

40447ST

Part #	Description
40447ST	17" heavy duty chain

Gravity Drop Adapter Dust Caps

4540DC

4540DC-1200

Part #	Description
4540DC	4" nylon lightweight cap
4540DC-1200	4" nylon lightweight cap with chain
VR4050PLRK1	replacement gasket

NOTE: Not intended to be pressurized ⚠

Dust Plugs with Handle

Part #	Size	Description
300-DP-ALPH	3"	aluminum dust plug
400-DP-ALPH	4"	

300-DP-ALPH   400-DP-ALPH

TTMA Flanged Sight Flow Indicators

Features
- Due to the proprietary blending of petroleum products, Dixon® recommends that the thermoplastic tubing and the gaskets be immersion tested in the product to be handled to ensure compatibility (not compatible with crude oil)
- Durable cast aluminum housing replaces competitions all acrylic sight glass commonly found on tank trucks
- Larger I.D. 4-3/8" flow indicator allows tank truck flanged butterfly valves to connect to either end of the indicator
- Allows for visual identification of the fuel grade prior to opening the valve
- Works with tank truck flanged butterfly valves found on gasoline trucks
- Low cost sight glass tube can be easily replaced

Specifications
- Maximum working pressure: **150 PSI**, TTMA flanges: **100 PSI**

5200-SFI shown mounted on petroleum tank   5200-SFI   5200-SPC

Part #	Description	Temperature Range	Fuel Compatibility
5200-SFI-3	3" TTMA flange sight flow, 1-3/4" width, 3-1/2" I.D.		gasoline and diesel, up to E100 and B100 biofuels
5200C-SFI-3 [1]	3" TTMA flange sight flow, 1-3/4" width, 3-1/2" I.D., stainless retain ring		gasoline and diesel, up to E100 and B100 biofuels, crude oil
5200-SFI	4" TTMA flange sight flow, 1-3/4" width, 4-3/8" I.D.	**-40°F to 140°F (-40°C to 60°C)**	gasoline and diesel, up to E100 and B100 biofuels
5200-SFIV	4" TTMA flange sight flow, 1-3/4" width, 4-3/8" I.D., FKM seals		
5200C-SFI [1]	4" TTMA flange sight flow, 1-3/4" width, 4-3/8" I.D., stainless retain ring		gasoline and diesel up to E100 and B100 biofuels, crude oil
5200-SPC	4" aluminum TTMA pattern solid flanged spacer (no sight glass)		all fuels

[1] Compatible with crude oil
NOTE: Maximum flange bolt torque is 200 in-lbs (inch pounds)

5201-SFI

Part #	Description	Fuel Compatibility
5201-SFI	4" TTMA flange sight flow, 3-1/4" width, 4-3/8" I.D.	gasoline and diesel, up to E100 and B100 biofuels
5201-SFI-3	3" TTMA flange sight flow, 3-1/4" width, 3-1/2" I.D.	

5201-CA

Part #	Description	Fuel Compatibility
5201CA	4" hose inline sight glass with 4" cam & groove adapter x coupler	gasoline and diesel, up to E100 and B100 biofuels
5201CA-3	3" sight flow indicator 3" coupler x 3" adapter	
5201CC	sight flow indicator 4" coupler x 4" coupler	

NOTE: See page 90 for sight glass repair kits

Product Indicators

Features
- Weight: 1-1/2 lbs
- Dimensions: 8" x 3" x 2-1/2" (L x W x H)
- Capable of displaying 8 user selectable product identification labels
- Can be mounted in typical locations near API with standard bolt hole pattern
- Customizable label sheets are sold in packs of 10

Material
- Polished cast aluminum

DBPI080   DBPI080-MINI

Part #	Description
DBPI080	petroleum product indicator (includes empty, ethanol, diesel, U.L.S.D., reg. unleaded, plus unleaded, premium unleaded, jet fuel)
40544AL	product indicator mounting bracket for DBPI080
40462VY	product indicator base label
DBPI080-MINI	mini petroleum product indicator, 4.5" x 2.125" x 2.25", weight 10 oz

TTMA Flanges

| TTF4AL-4MT | TTF4AL-4EMT | TTF4AL-4FT | TTF4AL | TTF400SP |
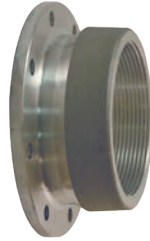
Part #	Description
TTF3AL-3MT	3" TTMA flange x 3" male NPT, 2-1/2" overall length
TTF4AL-3MT	4" TTMA flange x 3" male NPT, 2-1/2" overall length
TTF4ALHC-3MT	4" TTMA flange x 3" male NPT, 2-1/2" overall length, hardcoated
TTF4AL-3EMT	4" TTMA flange x 3" male NPT, 5-1/2" overall length
TTF4AL-3FT	4" TTMA flange x 3" female NPT, 2-1/2" overall length
TTF4AL-4MT	4" TTMA flange x 4" male NPT, 2-1/2" overall length
TTF4ALHC-4MT	4" TTMA flange x 4" male NPT, 2-1/2" overall length, hardcoated
TTF4AL-4EMT	4" TTMA flange x 4" male NPT, 5-1/2" overall length
TTF3AL-3FT	3" TTMA flange x 3" female NPT, 2-1/2" overall length
TTF4AL-4FT	4" TTMA flange x 4" female NPT, 2-1/2" overall length
TTF3AL	3" TTMA butt weld on flange
TTF4AL	4" TTMA butt weld on flange
TTF300SP	3" TTMA socket weld on flange
TTF400SP	4" TTMA socket weld on flange

Cam & Groove x TTMA Flanges

| 400-ALT-AL | 4022ALTAL | 400-DLT-AL | 4022DLTAL |

Part #	Description
300-ALT-AL	3" cam & groove adapter (straight) x 3" TTMA flange
3040ALTAL	3" cam & groove adapter (straight) x 4" TTMA flange
400-ALT-AL	4" cam & groove adapter (straight) x 4" TTMA flange
40022ALTAL	4" cam & groove adapter (22-1/2°) x 4" TTMA flange
600-ALT-AL	6" cam & groove adapter (straight) x 6" TTMA flange
300-DLT-AL	3" cam & groove coupler (straight) x 3" TTMA flange
3040DLTAL	3" cam & groove coupler x 4" round tank truck flange
400-DLT-AL	4" cam & groove coupler (straight) x 4" TTMA flange
40022DLTAL	4" cam & groove coupler (22-1/2°) x 4" TTMA flange
600-DLT-AL	6" cam & groove coupler (straight) x 6" TTMA flange

Dimensions of Tank Truck Flanges (TTMA Drilling)

Nominal Pipe Size	Flange O.D.	Thickness [1]	Diameter of Bolt Circle	Number of Bolts	Diameter of Bolt Holes	Diameter of Bolts
3"	5-5/8"		4-7/8"	8		
4"	6-5/8"	3/8"	5-7/8"	8	7/16"	3/8"
6"	8-7/8"		8-1/8"	12		

[1] Listed thickness is for aluminum flanges

TTMA Flange Reducer

4443
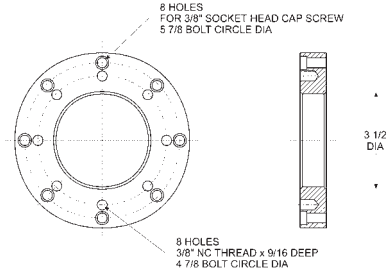
Part #	Description
4443	4" TTMA x 3" TTMA reducer flange

TTMA Butterfly Valve Spacer

FG4540
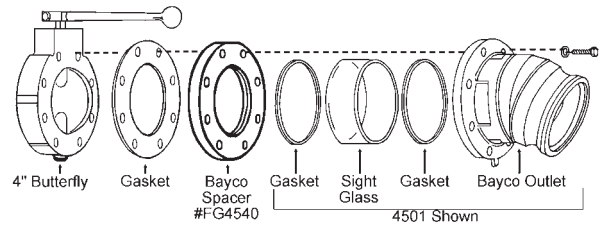
Part #	Description
FG4540	4" TTMA flange spacer

API and TTMA Flange Gaskets

Part #	Size	Description	O.D.	I.D.	Thickness	Bolt Circle	Fuel Compatibility
200GTTFBL	2"	TTMA-Baylast™	4-1/2"	2-5/8"	1/8"	3-3/4"	gasoline and diesel, up to E10 and B2 biofuels
300GTTFCB	3"	TTMA-cork/nitrile rubber	5-5/8"	3-1/2"	1/8"	4-7/8"	gasoline and diesel, up to E10 and B2 biofuels
300GTTFBL		TTMA-Baylast		3-5/8"			
300GTTFK		TTMA Klinger nylon		3-1/2"			
40321TF		TTMA-PTFE with soft fiber core	5-29/32"	3-1/2"	3/32"		gasoline and diesel, up to E100 and B100 biofuels
40364TF		API sump-PTFE with soft fiber core	7-1/4"	5"	5/32"	6-1/4"	
40364BL		API sump-Baylast			1/8"		
400GTTFCB	4"	TTMA-cork/nitrile rubber	6-5/8"	4-9/16"	1/8"	5-7/8"	gasoline and diesel, up to E10 and B2 biofuels
400GTTFBL		TTMA-Baylast		4-5/8"			
400GTTFK		TTMA Klinger nylon		4-9/16"			
40322TF		TTMA-PTFE with soft fiber core	6-7/8"	4-5/8"	3/32"		gasoline and diesel, up to E100 and B100 biofuels
40323TF		API sump-PTFE with soft fiber core	8-3/8"	5-7/8"	5/32"	7-1/4"	
40323BL		API sump-Baylast	8-1/4"	6-1/8"	1/8"		gasoline and diesel, up to E10 and B2 biofuels

6200 and 6500-Series - Fuel Delivery Elbows

Features

6200-Series
- Available in standard or tall heights to accommodate deep fill boxes
- Rugged modular cast aluminum construction
- Most parts are common throughout the Bayco® elbow line, making any necessary maintenance a breeze
- Grease nipple enables the greasing of the lever stem, and acetal bushings help keep everything moving smoothly, even in the harshest of conditions
- Bolt on inlets allow the inlet to be changed without having to worry about galling of threaded inlets
- Ball handle lever enables the operator to easily and positively engage the solid bronze locking arms, onto the underground adapter
- Biofuel compatible up to E100 (100% ethanol) and B20 (20% biodiesel). For detailed fuel compatibility, please refer to the chart shown on page 3

6500-Series
- Heavy-duty bolt on arm attachment plate increases the strength of the lever pivot. There are no impact susceptible pivot bolts, or casting bosses to break
- Arm hinge points use a double yoke design, which increases the arm strength
- Built in heavy-duty, locking mechanism prevents accidental elbow disconnections while the elbow is in service. No need for the operator to engage the locking mechanism, just move the handle to the closed position and the lock automatically engages. Releasing the lock is equally as easy, just grip the handle and lift. The locking mechanism has lots of free clearance so it will not be affected by dirt, ice or snow. (Elbow disconnections can occur on other elbow designs, from either operators bumping the release mechanism, or from a hydraulic surge when the underground storage tank overfill valve slams shut)
- Ergonomic handle can be mounted on either side of the elbow
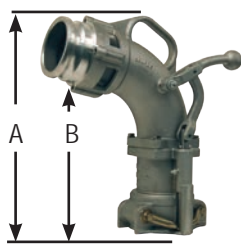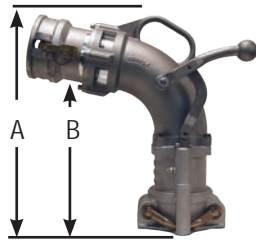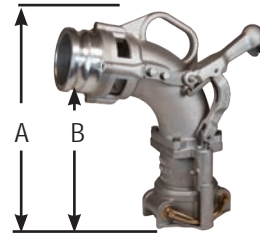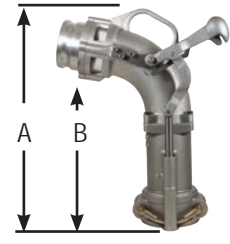
A B	A B	A B	A B
6200A	6200D	6500A	6500XA

Part #	Description	A Overall Height	B Ground Clearance	Fuel Compatibility
6200	standard height elbow only, without inlet connection			
6200C	standard height elbow with 3" adapter inlet			
6200A	standard height elbow with 4" adapter inlet			
6200B	standard height elbow with 3" coupler inlet	17-3/4"	10-7/8"	
6200D	standard height elbow with 4" coupler inlet			
6200T	elbow with anti-spill sleeve without inlet connection			
6200AT	elbow with 4" adapter inlet and anti-spill sleeve			
6200X	tall height elbow only, without inlet connection			
6200XC	tall height elbow with 3" adapter inlet			
6200XA	tall height elbow with 4" adapter inlet			
6200XB	tall height elbow with 3" coupler inlet	21"	13-3/4"	
6200XD	tall height elbow with 4" coupler inlet			
6200XT	tall elbow with anti-spill sleeve without inlet connection			gasoline and diesel, up to E100 and B20 biofuels
6200XAT	tall elbow with 4" adapter inlet and anti-spill sleeve			
6500	standard height full feature elbow only, without inlet connection			
6500C	standard height full feature elbow with 3" adapter inlet			
6500A	standard height full feature elbow with 4" adapter inlet			
6500B	standard height full feature elbow with 3" coupler inlet	17-3/4"	10-7/8"	
6500D	standard height full feature elbow with 4" coupler inlet			
6500T	elbow with locking handle and anti-spill sleeve without inlet connection			
6500AT	elbow with locking handle, 4" adapter inlet and anti-spill sleeve			
6500X	tall height full feature elbow only, without inlet connection			
6500XC	tall height full feature elbow with 3" adapter inlet			
6500XA	tall height full feature elbow with 4" adapter inlet			
6500XB	tall height full feature elbow with 3" coupler inlet	21"	13-3/4"	
6500XD	tall height full feature elbow with 4" coupler inlet			
6500XT	tall height full feature elbow with locking handle, no inlet, with anti-spill sleeve			
6500XAT	tall elbow with locking handle, 4" adapter inlet and anti-spill sleeve			

NOTE: See page 92-93 for repair kits and replacement parts
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

6600-Series - Auto Shut Off Elbow Release

Applications
- Most underground storage tanks (UST) have an automatic overfill prevention device located in the standpipe under the fill adapter. This automatic overfill device has an internal valve that is tripped closed when the UST fuel level reaches a high level. When this overfill valve is tripped the internal valve can slam shut causing a pressure surge. If the drive neglects to properly lock the elbow on the fill adapter and a an overfill occurred this can in turn cause the elbow to pop off the fuel inlet.

Features
- Rugged modular cast aluminum construction, with internal automatic shut off valve
- Many parts are common throughout the Bayco elbow line, making any necessary maintenance a breeze
- Grease nipple enables the greasing of the lever stem, and acetal bushings help keep everything moving smoothly, even in the harshest of conditions
- Inlet probes are standard, and are available with or without outlet poppet valves
- Bolt on outlets allow the outlet to be changed without having to worry about galling of threads. See below for replacement outlets
- Same rugged design as out 6200 and 6500-Series elbows
- Biofuel vapor compatible, up to E85 (85% Ethanol) and B20 (20% bio diesel). For detailed fuel compatibility, please refer to the chart shown on page 3

Materials
- Aluminum body and handle, bronze locking arms, stainless steel hardware, Baylast™ and nitrile rubber seals, and acetal bushings

Specification
- Manufactured to connect to in ground fuel station vapor adapters and cam & groove vapor hose connections

Part #	Description
6600LA	shut off elbow, 4" adapter inlet left hand, with flapper
6600LB	shut off elbow, 3" coupler inlet left hand, with flapper
6600LC	shut off elbow, 3" adapter inlet left hand, with flapper
6600LD	shut off elbow, 4" coupler inlet left hand, with flapper
6600RA	shut off elbow, 4" adapter inlet right hand, with flapper
6600RB	shut off elbow, 3" coupler inlet right hand, with flapper
6600RC	shut off elbow, 3" adapter inlet, right hand with flapper
6600RD	shut off elbow, 4" coupler inlet, right hand, with flapper
6610LA	shut off elbow, 4" adapter inlet left hand, with no flapper
6610LB	shut off elbow, 3" coupler inlet left hand, with no flapper
6610LC	shut off elbow, 3" adapter inlet left hand, with no flapper
6610LD	shut off elbow, 4" coupler inlet left hand, with no flapper
6610RA	shut off elbow, 4" adapter inlet right hand, with no flapper
6610RB	shut off elbow, 3" coupler inlet right hand, with no flapper
6610RC	shut off elbow, 3" adapter inlet, right hand with no flapper
6610RD	shut off elbow, 4" coupler inlet, right hand, with no flapper

NOTE: To prevent a possible spill Bayco 6600-Series elbow has an internal valve that will prevent a spill. Should the elbow pop off the fill adapter an internal valve will automatically close preventing the contents of the hose from spilling.

Fuel Delivery

Fuel Delivery Elbows
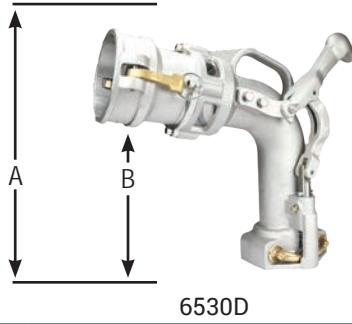
6530D

6530LA

Part #	Description	A	B	Fuel Compatibility
6530A	3" tightfill elbow with 4" inlet adapter			
6530B	3" tightfill elbow with 3" coupler inlet			
6530C	3" tightfill elbow with 3" inlet adapter	15"	9-1/2"	gasoline and diesel, up to E100 and B20 biofuels
6530D	3" tightfill elbow with 4" coupler inlet			
6530LA	3" tightfill elbow with 4" inlet adapter and locking handle			

Fuel Delivery Connectors

Straight Drop Fuel Delivery Connectors

Part #	Description	Overall Height
6303	4" top seal with 3" adapter inlet	17-5/8"
6304	4" top seal with 4" adapter inlet	16-3/16"
6303NPT	4" top seal with 3" male NPT inlet	19-3/4"
6304NPT	4" top seal with 4" male NPT inlet	19-3/16"

NOTE: See page 93 for repair kits and replacement parts

6304NPT

Fuel Delivery Elbow Inlets

Part #	Description	Fuel Compatibility
6000-9	fuel delivery gasket repair kit	
6000-16	3" adapter inlet	
6000-17	4" adapter inlet	gasoline and diesel, up to E100 and B20 biofuels
6000-15	3" coupler inlet	
6000-14	4" coupler inlet	
6000-20	4" female NPT inlet	

NOTE: These inlets are for 6000, 6200, and 6500-Series fuel delivery elbows only, for the 6400-Series coaxial elbow inlets, refer to the inlets shown on page 17

6000-17

6000-14

6000-20

Side Seal Fuel Delivery Elbows

Part #	Description
6000AS	side seal elbow without inlet connection
6000ASC	side seal elbow with 3" adapter inlet
6000ASA	side seal elbow with 4" adapter inlet
6000ASB	side seal elbow with 3" coupler inlet
6000ASD	side seal elbow with 4" coupler inlet
6000AST	side seal elbow without inlet connection, with anti-spill sleeve
6000ASAT	side seal elbow with 4" adapter inlet, with anti-spill sleeve
6000ASAL	side seal elbow with 4" adapter inlet, with locking ring
6000ASR	optional add on locking ring, prevents levers from moving

NOTE: See page 96 for repair kits and replacement parts

6000ASC

Side Seal to Top Seal Adapter

Part #	Description	Fuel Compatibility
6000-SSA	side seal to top seal connection adapter	gasoline and diesel, up to E100 and B20 biofuels

6000SSA

Elbow Height Extensions

6000EXT

spacer kits shown assembled to elbows

Part #	Description
6000EXT	3" height extension kit for 6200, 6500, VR6000 and VR6500 elbows. Kit includes: body and stem extensions, 4 stainless steel nuts and bolts, and stem pin
6400EXT	3" height extension kit for 6400 coaxial elbows. Kit includes: body and stem extensions, 4 stainless steel nuts and bolts, stem pin and replacement vapor tube

Tank Cabinet "Dummy" Weld-on Adapters

Part #	Description
AL4051-BORE	4" fuel delivery: cabinet weld-on adapter blank
400AWSPAL	4" vapor recovery: cabinet weld-on adapter blank

AL4051-BORE　　　400AWSPAL

Coaxial Elbow - Replacement Fuel Inlets and Vapor Outlets

6000-17C　　　6000-26C　　　6000-14C

Part #	Description
6000-16C	3" adapter fuel inlet
6000-17C	4" adapter fuel inlet
6000-15C	3" coupler fuel inlet
6000-14C	4" coupler fuel inlet
6400-4	3" adapter vapor outlet
6000-26C	3" male NPT vapor outlet

NOTE: These inlets are for 6400-Series coaxial elbows only, for 6000, 6200, and 6500-Series delivery elbows, refer to the inlets shown on page 16

Single Point Coaxial - Delivery/Vapor Recovery Elbows

Features
- Available in standard or tall heights to accommodate deep fill boxes
- Rugged modular cast aluminum construction
- Many parts are common throughout the Bayco® elbow line, making any necessary maintenance a breeze
- Grease nipple enables the greasing of the lever stem, and acetal bushings help keep everything moving smoothly, even in the harshest of conditions
- Bolt-on inlets allow the inlet to be changed without having to worry about galling of threaded inlets. See below for replacement inlets
- Ball handle lever enables the operator to easily and positively engage the solid bronze locking arms, onto the underground adapter
- Top connection is the vapor outlet; lower connection is the fuel delivery inlet
- Biofuel compatible up to E100 (100% ethanol) and B20 (20% biodiesel). For detailed fuel compatibility, please refer to the chart shown on page 3

NOTE: Coaxial inlets are not interchangeable with other Bayco elbow inlets

6400

6400X
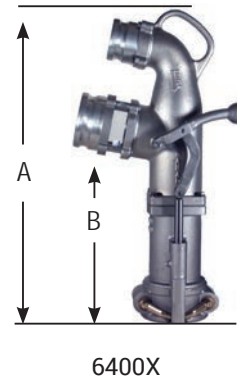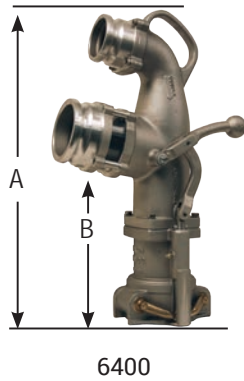
Part #	Description	A Overall Height	B Ground Clearance	Fuel Compatibility
6430	standard height elbow with 3" adapter fuel inlet, 3" adapter vapor outlet	23-3/4"	11-3/4"	gasoline and diesel, up to E100 and B20 biofuels
6430F	standard height elbow with 3" coupler fuel inlet, 3" adapter vapor outlet			
6400	standard height elbow with 4" adapter fuel inlet, 3" adapter vapor outlet			
6400F	standard height elbow with 4" coupler fuel inlet, 3" adapter vapor outlet			
6400FNPT	standard height elbow with 4" coupler fuel inlet, 3" male NPT vapor outlet			
6430X	tall height elbow with 3" adapter fuel inlet, 3" adapter vapor outlet	26-3/4"	14-3/4"	
6430XF	tall height elbow with 3" coupler fuel inlet, 3" adapter vapor outlet			
6400X	tall height elbow with 4" adapter fuel inlet, 3" adapter vapor outlet			
6400XF	tall height elbow with 4" coupler fuel inlet, 3" adapter vapor outlet			
6400XFNPT	tall height elbow with 4" coupler fuel inlet, 3" male NPT vapor outlet			

NOTE: Elbow options are shown on page 17. See page 94 for repair kits and replacement parts

Biofuel compatible, see fuel compatibility chart on page 3 for more information

Fuel Station, In-Ground Tank Adapters and Caps

Application
- When fuel is delivered to the fuel station, the fuel delivery and vapor recovery elbows, are connected to the in-ground tank adapters. There are two types that do not interchange, 1) is for fuel delivery using either standard or coaxial delivery elbows. 2) Is for the vapor recovery elbows. The delivery adapter is threaded onto the in-ground tank fuel inlet, and the vapor adapter is threaded to the in-ground tank vapor outlet connection. To prevent contamination and fuel evaporation, the tank adapters are capped with T-handle caps when not in use.

Features
- Manufactured with 4" pipe threads to connect to in-ground fuel station tanks, and then provide an interface to connect the top seal fuel drop or vapor recovery elbows

Delivery Adapters (top seal)
- Available with 4" NPS or 4" NPT threads, with 3-1/2" or 2-3/8" heights
- Rugged bronze or Bayloy cast construction

Delivery Adapter Caps
- Designed to fit fuel delivery adapters only
- Rugged durable construction aluminum or bronze bodies, with bronze push-pull T-handle
- Protect the delivery adapter, and prevent fuel contamination evaporation and tampering
- Padlockable

Features (cont.)
Vapor Adapters
- Rugged bronze or Bayloy cast construction
- With outlet poppet valves to prevent fuel vapors from escaping. Poppet opens when vapor elbow is connected
- Can be used as vapor valve on a fuel tanker (does not have mount for air interlock)

Vapor Adapter Caps
- Designed to fit fuel vapor adapters and truck mounted vapor valves
- Colored orange to signify vapor connection
- Durable and lightweight construction aluminum or nylon bodies, with push-pull T-handle
- Protect the vapor adapter, and prevent fuel contamination and tampering
- Biofuel compatible, up to E100 (100% ethanol) and B20 (20% biodiesel). For detailed fuel compatibility, please refer to the chart shown on page 3
- Padlockable

Materials
- Adapters are either produced from bronze [1] or Bayloy [1]. Caps are produced in aluminum [1], bronze [1] or nylon [1], nitrile rubber seals.

[1] Dependent upon part #, see part number list below for more details

Fuel Delivery

BZ4051	BZ4051S	BSS4051	SA4050AL

Part #	Description
BSS4051	bronze fuel delivery tank adapter, 4" female NPT, 1-21/32" height, side seal
BZ4051	bronze fuel delivery tank adapter, 4" female NPT, 3-1/2" height, top seal
BY4051	Bayloy fuel delivery tank adapter, 4" female NPT, 3-1/2" height, top seal
BZ4051S	bronze fuel delivery tank adapter, 4" female NPS, 2-3/8" height, top seal
SA4050AL	aluminum fuel delivery adapter cap, bronze push-pull T-handle, nitrile rubber gasket
SA4050BZ	bronze fuel delivery adapter cap, bronze push-pull T-handle, nitrile rubber gasket
TL4070BZ	bronze fuel delivery adapter cap, bronze twin lever handle

Vapor Recovery

VR4086	VR4050AL	VR4050PL

Part #	Description
VR4086	bronze vapor recovery tank adapter, 4" FNPT, 3-5/8" height, with vapor poppet
VR4086-BY	Bayloy vapor recovery tank adapter, 4" FNPT, 3-5/8" height, with vapor poppet
VR4050AL	aluminum vapor recovery cap, colored vapor orange, push-pull T-handle, nitrile rubber gasket
VR4050PL	nylon vapor recovery cap, colored vapor orange, push-pull T-handle, nitrile rubber gasket
VR4050ALC	aluminum vapor recovery cap, colored vapor orange, push-pull T-handle, nitrile rubber gasket, with chain
VR4050PL-1200	nylon vapor recovery cap, colored vapor orange, push-pull T-handle, nitrile rubber gasket, with chain

NOTE: See page 101 for repair kits and replacement parts
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com
Biofuel vapor compatible

Dual Point - Vapor Recovery Elbows

Application
- In many areas fuel stations are equipped with dual point tank connections, one connection is for the fuel delivery, and the other connection is for the vapor recovery connection. The vapor elbow bottom connection is connected to the fuel station on a ground tank vapor adapter and the top connection to the vapor hose, which returns the fuel vapors back to the tanker

Features
- Rugged modular cast aluminum construction
- Many parts are common throughout the Bayco® elbow line, making any necessary maintenance a breeze
- Grease nipple enables the greasing of the lever stem, and acetal bushings help keep everything moving smoothly, even in the harshest of conditions
- Inlet probes are standard, and are available with or without outlet poppet valves
- Bolt on outlets allow the outlet to be changed without having to worry about galling of threads. See below for replacement outlets
- VR6100-Series features a simple to connect push-on style connection
- VR6200 and VR6500-Series features an ergonomic ball handle lever, which on the 6500-Series can be mounted either on the left or right side
- VR6500-Series features heavy duty bolt on arm attachment plate increases the strength of the lever pivot. There are no impact susceptible pivot bolts, or casting bosses to break
- VR6500-Series features, arm hinge points use a double yoke design which increases the arm strength
- Biofuel vapor compatible, up to E85 (85% ethanol) and B20 (20% biodiesel). For detailed fuel compatibility, please refer to the chart shown on page 3

Materials
- Aluminum body and handle, bronze locking arms [1], stainless steel hardware, Baylast™ and nitrile rubber seals, and acetal bushings

Specifications
- Manufactured to connect to in ground fuel station vapor adapters and cam & groove vapor hose connections

[1] Dependent upon part #, see part number list below for more details
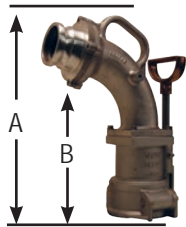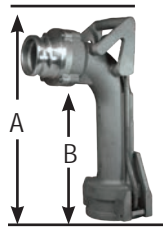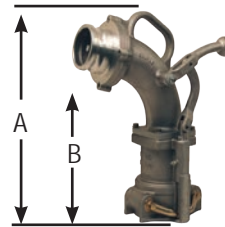
VR6000NP   VR6100NP   VR6200   VR6500
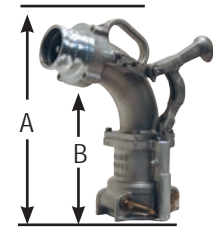
Part #	Description	Outlet Poppet Valve	A Overall Height	B Ground Clearance	Vapor Compatibility
VR6000NP	D-handle, 3" adapter outlet	No	17-1/4"	10-3/4"	gasoline and diesel, up to E85 and B20 biofuels
VR6100NP	push-on style, 3" adapter outlet	No	18-3/4"	12-1/2"	
VR6200NPBU	ball lever handle, without adapter outlet	No	17-1/4"	10-3/4"	
VR6200	ball lever handle, 3" adapter outlet	Yes	17-1/4"	10-3/4"	
VR6200NP	ball lever handle, 3" adapter outlet	No	17-1/4"	10-3/4"	
VR6200PNP	ball lever handle, 3" adapter outlet with height extension, see page 13 for more info	No	20-1/4"	13-3/4"	
VR6200ANP	ball lever handle, 4" adapter outlet	No	17-1/4"	10-3/4"	
VR6200NPB	ball lever handle, 3" coupler outlet	No	17-1/4"	10-3/4"	
VR6200NPBP	ball lever handle, 3" coupler outlet with height extension, see page 13 for more info	No	20-1/4"	13-3/4"	
VR6200NPDP	ball lever handle, 4" coupler outlet with height extension, see page 13 for more info	No	20-1/4"	13-3/4"	
VR6500	heavy duty ball lever handle, 3" adapter outlet	Yes	17-1/4"	11-1/4"	
VR6500NP	heavy duty ball lever handle, 3" adapter outlet	No	17-1/4"	11-1/4"	
VR6500LPNP	heavy duty ball lever locking handle, 3" adapter outlet	No	20-1/4"	13-3/4"	
VR6000-6	replacement 3" adapter outlet, for elbows with or without poppets	---	---	---	gasoline and diesel, up to E100 and B20 biofuels
6000-17	replacement 4" adapter outlet, for elbows without poppets, requires liquid sealant to seal to elbow body	---	---	---	
6000-15	replacement 3" coupler outlet, for elbows without poppets, requires liquid sealant to seal to elbow body	---	---	---	
6000-14	replacement 4" coupler outlet, for elbows without poppets, requires liquid sealant to seal to elbow body	---	---	---	

NOTE: See page 97-100 for repair kits and replacement parts

Biofuel compatible, see fuel compatibility chart on page 3 for more information

Vapor Return Valves

Features
- Rugged cast aluminum construction
- Variety of tank connections to suit any application, including 4" TTMA flange, 3" and 4" female NPT and 4" female NPS
- Air interlock mounting pad (VR4000 requires 5000AIV, other models can use the 5000AI, 5000AIS or 5000AIST interlock valves)
- VR4000 is a bulb design which allows for maximum vapor flow, also features 2 large acrylic sight glasses and a drain plug
- Available with or without poppets. Poppeted versions prevent vapor from escaping from the tanker
- Easy seal replacement while still on the tanker
- Biofuel vapor compatible, up to E100 (100% ethanol) and B20 (20% biodiesel). For detailed fuel compatibility, please refer to the chart shown on page 3

Materials
- Aluminum body and nitrile rubber seals, nylon [1] or acrylic [1] sight glass if equipped

Specifications
- Manufactured to connect to vapor hose couplings

[1] Dependent upon part #, see part number list below for more details

| VR3100 | VR4000 | VR4100 | VR4100F | VR4100F-SFI |

Part #	Adapter Size	Tanker Connection	Inlet Poppet Valve	Sight Glass	Description	Vapor Compatibility
VR3100	4"	3" female NPT	Yes	No	vapor valve, low profile design	gasoline and diesel, up to E100 and B20 biofuels
VR3100NP			No	No		
VR4100	4"	4" female NPT	Yes	No		
VR4100NP			No	No		
VR4100S	4"	4" female NPS	Yes	No		
VR4100NPS			No	No		
VR4100F	4"	4" TTMA flange	Yes	Yes		
VR4100FNG			Yes	No		
VR4100F-SFI			Yes	Yes		
VR4100F-NGNP			No	No		
VR4100FNP			No	Yes		
VR4000			Yes	Yes	bulb design for maximum flow (if required use 5000AIV interlock valve)	

NOTE: See page 102-103 for repair kits and replacement parts

Orange Vapor Caps

| VR4050PL | VR4050PL-1200 | VR4050AL |

Part #	Description	Vapor Compatibility
VR4050AL	aluminum vapor recovery adapter cap, color orange, push-pull T-handle, nitrile rubber gasket	gasoline and diesel, up to E100 and B20 biofuels
VR4050PL	nylon vapor recovery adapter cap, color orange, push-pull T-handle, nitrile rubber gasket	
VR4050ALC	aluminum vapor recovery adapter cap, color orange, push-pull T-handle, nitrile rubber gasket, with chain	
VR4050PL-1200	nylon vapor recovery adapter cap, color orange, push-pull T-handle, nitrile rubber gasket, with chain	

NOTE: See page 101 for repair kits and replacement parts

Vapor Hose Couplings

Part #	Coupler Size	Connection Type and Size	Poppet Valve	Probe	Vapor Compatibility
VRC3000AL	3"	3" hose	No	Yes	
VR4030CS-AL [1]	4"	3" hose	Yes	Yes	
VR4040CS-AL	4"	4" hose	Yes	Yes	
VR4030CS-AL45	4"	3" 45° hose	Yes	Yes	
VR4040CS-AL45	4"	4" 45° hose	Yes	Yes	
VR4040CS-ALS45	4"	4" 45° hose swivel	---	---	
VR4040CS-4MNPT	4"	4" male NPT	Yes	Yes	
4020-CVR-AL	4"	2" hose	No	Yes	gasoline and diesel, up to E100 and B20 biofuels
4030-CVR-AL	4"	3" hose	No	Yes	
400-CVR-AL	4"	4" hose	No	Yes	
4030-DVR-AL	4"	3" female NPT	No	Yes	
400-DVR-AL	4"	4" female NPT	No	Yes	
4030-DAVR-AL	4"	3" cam & groove adapter	No	Yes	
400-DDVR-AL	4"	4" cam & groove coupler	No	Yes	
VR4030CS-NP	4"	3" hose	No	Yes	
VR4030CS-SH	4"	3" hose	Yes	Yes	
VR4040CSRK1	---	seal repair kit	---	---	
VR4040CSRK2	---	cam arm repair kit	---	---	
VRHK [1]	---	handle kit	---	---	
VRHK-C [1]	---	compact handle kit	---	---	

VR4030CS-AL

VR4040CS-AL

VR4030CS-AL45

NOTE: See page 104-106 for repair kits and replacement parts
[1] VR4030CS-AL will not work with Civacon 633LVH vapor valve and requires poppet style vapor valve on tank truck to open

Sequential Vapor Vents

Features
- Can be installed to open in sequence with another pneumatically controlled device such as the emergency valve, or open independently by simply plugging the lower of the 2 ports (use a 1/4" male NPT plug)
- Flange adapter available to adapt 3" TTMA (VR6035SQ) version to a Parker style vent
- Any necessary maintenance is easy to perform

Material
- Rugged cast aluminum construction

Specefication
- Temperature range: **-40°F** to **160°F** (**-40°C** to **71°C**)

VR6030SQ

VR6035SQ

Part #	Description	Vapor Compatibility
VR6030SQ	for 16" manhole, with threaded mounting ring	gasoline and diesel, up to E100 and B100 biofuels
VR6035SQ	for 20" manhole, with 3" TTMA flange	
40193AL	VR6035SQ adapter flange for Parker style vents	

40193AL

NOTE: See page 107-108 for repair kits and replacement parts

Outbreathing and Inbreathing Vents

Part #	Description	Vapor Compatibility
VRP3500	outbreathing, opens at no greater than **1 PSI** (MC306)	gasoline and diesel, up to E100 and B100 biofuels
VRP3600	outbreathing, opens at no less than **0 PSI** (DOT406)	
VRV3501	inbreathing, opens at 1-1/2" Hg (vacuum)	

VRP3500
VRP3600

VRV3501

NOTE: See page 109 repair kits and replacement parts

Air Interlock Valves

Specifications
- Temperature range: **-40°F** to **158°F** (**-40°C** to **70°C**)
- Maximum working pressure: **150 PSI**

Standard Air Interlock Valves

| 5000AI | 5000AIR | 5000AIHD | 5000AIV | 5000AIRHD | 5000AIVHD |
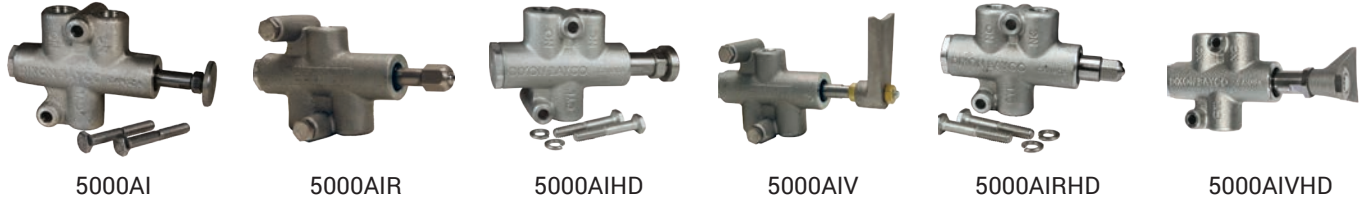
Part #	Description
5000AI	1" button plunger pneumatic interlock, Baylast™ seals
5000AIST	1-1/2" button plunger pneumatic interlock, Baylast seals
5000AIR	roller ball plunger pneumatic interlock, ideal for use on cabinet doors, Baylast seals
5000AIS	1" button plunger pneumatic/electronic interlock, ideal for connecting to lights or the overfill detection system, Baylast seals
5000AIV	paddle plunger pneumatic interlock, for use on VR4000 vapor valve, Baylast seals
5000AIHD	heavy duty, high flow air ports, same foot print as 5000AI, Baylast seals
5000AIRHD	roller end for various angles, large air ports, Baylast seals
5000AIVHD	heavy duty air interlock with paddle plunger, Baylast seals

NOTE: See page 110-112 for repair kits and replacement parts

Heavy Duty 6-Port Air Interlock Valves

Specification
- Temperature range: **-40°F** to **158°F** (**-40°C** to **70°C**)

| 5006AIHD | 5006AIRHD | 5006AIVHD |

Part #	Description
5006AIHD	heavy duty, high flow air ports, Baylast seals
5006AIRHD	roller end for various angles, large air ports, Baylast seals
5006AIVHD	heavy duty air interlock with paddle plunger, Baylast seals

Air Interlock Valve Accessories

| DB300PMB | 5000S |

Part #	Description
DB300PMB	mount 5000AI air interlock on 3" pipe
DB400PMB	mount 5000AI air interlock on 4" pipe
5000S	air interlock limit switch kit
5000AIVS	air interlock with limit switch and cable
5000AISHD	air interlock limit switch heavy duty and cable
5000AISTHD	heavy duty air interlock with 1-1/2"
40048WI	cable, air interlock switch

Hose Tube Doors

Application
- When not in use fuel delivery hoses are often stored in tubes that run the length of the tanker, to keep the hoses in the storage tubes they have a welded cap on one end and a hinged tube door welded on the other end

Features
- Keeps fuel delivery hoses neatly and safely stored in the designated storage tubes
- Helps to protect the expensive delivery hoses and fittings from road dirt, salt and other environmental factors
- Padlockable

Materials
- Aluminum body, nitrile rubber seals, stainless steel door closure spring and hardware, nylon bushings

Specification
- Manufactured to weld to 6", 7" or 8" hose tubes

Part #	Description
TDF6	6" hose tube door
TDF7	7" hose tube door
TDF8	8" hose tube door

NOTE: See page 110 for repair kits and replacement parts

TDF6   TDF7   TDF8

Static Grounding Balls

Application
- To help prevent static electric sparking when loading or unloading tankers containing flammable products, the tanker is grounded using a grounding cable with spring clip attached to a tank mounted static grounding ball

Feature
- Helps eliminate static electricity sparking

Materials
- Brass or stainless steel

Specification
- Manufactured with 3/8"-16UN-3A thread

Part #	Description
GS1	brass grounding ball
GS1-2	brass grounding ball with lock washer and stainless steel nut
GS2	416 SS grounding ball

GS1   GS1-2   GS2

Tanker Pipe Caps

Features
- Includes 12" heavy duty chain with S hook
- Pin lugs allow easy tightening
- Working pressure of up to **150 PSI**

Part #	Description
PC30	3" female NPSL pipe threaded aluminum cap
L2286	nitrile rubber gasket

PC30

One Way Full Flow Ball Valves

Application
- One way full flow ball valves are often used to control the flow of products from tanker compartments

Features
- High flow with low pressure drop
- Working pressure of **150 PSI** at **70°F** (**21°C**)
- Valve spindle can be disassembled with valve installed

Materials
- Aluminum body, aluminum and stainless steel wetted parts, FPM (FKM and PTFE seals)

Specifications
- Manufactured with 2", 3" or 4" female NPT, socket weld to Schedule 40 or grooved ends

Part #	Size	Description
1WAYBV200	2"	
1WAYBV300	3"	female NPT
1WAYBV400	4"	
1WAYBV200SW	2"	
1WAYBV300SW	3"	schedule 40 socket weld
1WAYBV200VIC	2"	
1WAYBV300VIC	3"	grooved connections

1WAYBV300   1WAYBV300SW   1WAYBV300VIC

Two Way 3 Port Diverting Ball Valves

Application
- Two way diverting ball valves are often used to divert or mix products between tanker compartments

Features
- 3 ports allow easy flow diversion between tanker compartments
- High flow with low pressure drop
- Working pressure of **150 PSI** at **70°F** (**21°C**)
- Valve spindle can be disassembled with valve installed

Materials
- Aluminum body, aluminum and stainless steel wetted parts, FPM (FKM and PTFE seals)

Specifications
- Manufactured with 2", 3" or 4" female NPT, socket weld to Schedule 40 or grooved ends

Part #	Size	Description
2WAYBV200	2"	
2WAYBV300	3"	female NPT
2WAYBV400	4"	
2WAYBV200SW	2"	
2WAYBV300SW	3"	schedule 40 socket weld
2WAYBV200VIC3	2"	
2WAYBV300VIC3	3"	grooved connections

2WAYBV200   2WAYBV300SW   2WAYBV300VIC3

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Cam & Groove Style Dry Disconnect Couplings

Application
- Dry disconnects help prevent spillage from normal or accidental disconnection of the connection. A spring loaded sealing device is designed to snap closed should the valve become disconnected with the poppet open, significantly limiting liquid loss

Features
- Helps eliminate the possibility of costly spills
- Compatible with most other brands of cam & groove style dry disconnects
- Special configurations can be designed for your application
- Female NPT or 150# flanged connections

DBA Adapters
- Two-piece adapter design for easy rebuilding of adapters
- Stainless steel parts have a stainless steel piston
- Adapters below are used with the DBC or D2C couplers shown on pages 28 and 29
- Use standard cam & groove dust caps sized one size larger than the dry disconnect size, see chart below for dust cap size selection

DBC Couplers
- Large paddle type locking cam arms standard on 3" fittings, allow for an easy grip
- DBC series have automatic closing poppet assembly
- Heavy duty stainless steel crank and link provide long service life
- Stainless steel handle assembly allows exposure to corrosive chemicals or wash down service
- Strong handle attachment prevents bending of crank assembly
- Aluminum couplers have stainless steel internal parts
- EZ Boss-Lock™ cam arms standard on all 1-1/2" and 2" fittings, provide high security from accidental opening due to vibration or snagging. Very easy to use, just close the arms and they lock, to open simply lift the lever (possible even with gloves on)

Materials
- Zinc, aluminum or stainless steel bodies with nitrile rubber [1], FKM [1], FKM-B [1], PTFE encapsulated silicone [1], EPT (EPDM)[1], FFKM, PTFE encapsulated FKM and PTFE seals, see part number chart for full seal selection. Stainless steel corrosion resistance is equivalent to 304 stainless steel

Specifications
- Manufactured to interchange with other cam & groove type dry disconnect couplings
- Contact Dixon® at 877.963.4966 for working pressures at temperatures other than **70°F** (**21°C**) and for chemical compatibility, size and material selection

Approvals
- Canadian registration number CRN #OH14044 all provinces, 3" size rated to **80 PSI** for CRN required applications

[1] Dependent upon part #, see part number list below for more details

DBA71-200

DBA11-300

Female NPT Adapters

Female NPT Size	Adapter Size	Seal Material	Max PSI @ 70°F (21°C)	Aluminum Part #	Zinc/Aluminum Part #	Competitor Part #	Stainless Steel Part # [2]	Competitor Part #
1-1/2"	2"	nitrile rubber	210	---	DBA11-150	1611AN-AL15	DBA71-150	1671AN-SS15
2"	2-1/2"		150	DBA61-200	DBA11-200	1611AN-AL20	DBA71-200	1671AN-SS20
3"	4"		120	---	DBA11-300	1611AN-AL30	DBA71-300	1671AN-SS30
1-1/2"	2"	FKM	210	---	DBA12-150	1612AN-AL15	DBA72-150	1672AN-SS15
2"	2-1/2"		150	DBA62-200	DBA12-200	1612AN-AL20	DBA72-200	1672AN-SS20
3"	4"		120	---	DBA12-300	1612AN-AL30	DBA72-300	1672AN-SS30
1-1/2"	2"	PTFE encapsulated silicone	210	DBA63-150	---	1613AN-AL15	DBA73-150	1673AN-SS15
2"	2-1/2"		150	DBA63-200	---	1613AN-AL20	DBA73-200	1673AN-SS20
3"	4"		120	DBA63-300	---	1613AN-AL30	DBA73-300	1673AN-SS30
1-1/2"	2"	EPDM	210	DBA64-150	---	1614AN-AL15	DBA74-150	1674AN-SS15
2"	2-1/2"		150	DBA64-200	---	1614AN-AL20	DBA74-200	1674AN-SS20
3"	4"		120	DBA64-300	---	1614AN-AL30	DBA74-300	1674AN-SS30
1-1/2"	2"	FFKM	210	DBA66-150	---	1616AN-AL15	DBA76-150	1676AN-SS15
2"	2-1/2"		150	DBA66-200	---	1616AN-AL20	DBA76-200	1676AN-SS20
3"	4"		120	DBA66-300	---	1616AN-AL30	DBA76-300	1676AN-SS30
1-1/2"	2"	PTFE encapsulated FKM	210	DBA67-150	---	1617AN-AL15	DBA77-150	1677AN-SS15
2"	2-1/2"		150	DBA67-200	---	1617AN-AL20	DBA77-200	1677AN-SS20
3"	4"		120	DBA67-300	---	1617AN-AL30	DBA77-300	1677AN-SS30
2"	2-1/2"	FKM-GFLT	150	---	---	---	DBA78-200	---
3"	4"	FKM-B	120	DBA69-300	---	1619AN-AL30	DBA79-300	1679AN-SS30

NOTE: See pages 115-117 for repair kits and replacement parts

[2] Stainless steel corrosion resistance is comparable to 304 stainless steel

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Jump Size Female NPT Adapters

DBA12-1520

Female NPT Size	Adapter Size	Dry Disconnect Body Size	Seal Material	Max PSI @ 70°F (21°C)	Zinc/Aluminum Part #	Competitor Part #
2"	2"	1-1/2"	nitrile rubber	150	DBA11-1520	---
			FKM		DBA12-1520	---

NOTE: See pages 115 for replacement parts

Female NPS Vapor Adapter

DBAV73-2030

Female NPSM Size	Adapter Size	Dry Disconnect Body Size	Seal Material	Max PSI @ 70°F (21°C)	Stainless Steel Part #[1]	Competitor Part #
3"	2-1/2"	2"	PTFE	150	DBAV73-2030	2173AVN

NOTE: See page 118 for replacement parts

150# Flange Adapters

DBAF72-200

Flange Size	Adapter Size	Dry Disconnect Body Size	Seal Material	Max PSI @ 70°F (21°C)	Stainless Steel Part #[1]	Competitor Part #
2"	2"	1-1/2"	nitrile rubber	150	DBAF71-1520	1671ANF-SS15
	2-1/2"	2"			DBAF71-200	1671ANF-SS20
3"	4"	3"		120	DBAF71-300	1671ANF-SS30
2"	2"	1-1/2"	FKM	150	DBAF72-1520	1672ANF-SS15
	2-1/2"	2"			DBAF72-200	1672ANF-SS20
3"	4"	3"		120	DBAF72-300	1672ANF-SS30
2"	2"	1-1/2"	PTFE encapsulated silicone	150	DBAF73-1520	1673ANF-SS15
	2-1/2"	2"			DBAF73-200	1673ANF-SS20
3"	4"	3"		120	DBAF73-300	1673ANF-SS30
2"	2"	1-1/2"	EPDM	150	DBAF74-1520	1674ANF-SS15
	2-1/2"	2"			DBAF74-200	1674ANF-SS20
3"	4"	3"		120	DBAF74-300	1674ANF-SS30
2"	2"	1-1/2"	FFKM	150	DBAF76-1520	1676ANF-SS15
	2-1/2"	2"			DBAF76-200	1676ANF-SS20
3"	4"	3"		120	DBAF76-300	1676ANF-SS30
2"	2-1/2"	2"	FKM-GFLT	150	DBAF78-200	---

NOTE: See page 119 for replacement parts
[1] Stainless steel corrosion resistance is comparable to 304 stainless steel

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC61-150

DBC61-300

Cam & Groove Style Dry Disconnect Couplings

Female NPT Couplers

Female NPT Size	Coupler Size	Seal Material	Max PSI @ 70°F (21°C)	Aluminum Part #	Competitor Part # (New and Old)	Stainless Steel Part # [1]	Competitor Part # (New and Old)
1-1/2"	1-1/2"	nitrile rubber	210	DBC61-150	1711DL-AL15/1761D-AL15	DBC71-150	1771DL-SS15/1771D-SS15
2"	2-1/2"		150	DBC61-200	1711DL-AL20/1761D-AL20	DBC71-200	1771DL-SS20/1771D-SS20
3"	4"		120	DBC61-300	1711DL-AL30/1761D-AL30	DBC71-300	1771DL-SS30/1771D-SS30
1-1/2"	2"	FKM	210	DBC62-150	1712DL-AL15/1762D-AL15	DBC72-150	1772DL-SS15/1772D-SS15
2"	2-1/2"		150	DBC62-200	1712DL-AL20/1762D-AL20	DBC72-200	1772DL-SS20/1772D-SS20
3"	4"		120	DBC62-300	1712DL-AL30/1762D-AL30	DBC72-300	1772DL-SS30/1772D-SS30
3"	3"		120	DBC62LVPR-300	---	---	---
1-1/2"	2"	PTFE encapsulated silicone	210	DBC63-150	1713DL-AL15/1763D-AL15	DBC73-150	1773DL-SS15/1773D-SS15
2"	2-1/2"		150	DBC63-200	1713DL-AL20/1763D-AL20	DBC73-200	1773DL-SS20/1773D-SS20
3"	4"		120	DBC63-300	1713DL-AL30/1763D-AL30	DBC73-300	1773DL-SS30/1773D-SS30
1-1/2"	2"	EPDM	210	DBC64-150	1714DL-AL15/1764D-AL15	DBC74-150	1774DL-SS15/1774D-SS15
2"	2-1/2"		150	DBC64-200	1714DL-AL20/1764D-AL20	DBC74-200	1774DL-SS20/1774D-SS20
3"	4"		120	DBC64-300	1714DL-AL30/1764D-AL30	DBC74-300	1774DL-SS30/1774D-SS30
1-1/2"	2"	FFKM	210	DBC66-150	1716DL-AL15/1766D-AL15	DBC76-150	1776DL-SS15/1776D-SS15
2"	2-1/2"		150	DBC66-200	1716DL-AL20/1766D-AL20	DBC76-200	1776DL-SS20/1776D-SS20
3"	4"		120	DBC66-300	1716DL-AL30/1766D-AL30	DBC76-300	1776DL-SS30/1776D-SS30
1-1/2"	2"	PTFE encapsulated FKM	210	DBC67-150	1717DL-AL15/1767D-AL15	DBC77-150	1777DL-SS15/1777D-SS15
2"	2-1/2"		150	DBC67-200	1717DL-AL20/1767D-AL20	DBC77-200	1777DL-SS20/1777D-SS20
3"	4"		120	DBC67-300	1717DL-AL30/1767D-AL30	DBC77-300	1777DL-SS30/1777D-SS30
2"	2-1/2"	FKM-GFLT	150	---	---	DBC78-200	---
3"	4"	FKM-B	120	DBC69-300	1719DL-AL30/1769D-AL30	DBC79-300	1779DL-SS30/1779D-SS30

DB C 6 1 L - 150 - GL

Type
A - Adapter
C - Coupler

Body Material
6 - Aluminum
7 - Stainless Steel

Seal Material
1 - Nitrile rubber
2 - FKM
3 - PTFE Encapsulated Silicone
4 - EPDM
6 - FFKM
7 - PTFE Encapsulated FKM
8 - FKM-GFLT
9 - FKM-B

Handle
Blank - Standard
L - Locking

Female NPT Size
150 - 1-1/2"
200 - 2"
300 - 3"

Grease
Blank - Standard
L - Greaseless

Seal Temperature
Nitrile rubber **-30°F to 200°F (-34°C to 93°C)**
FKM **-15°F to 400°F (-26°C to 204°C)**
EPDM **-40°F to 200°F (-40°C to 93°C)**
FFKM **-4°F to 500°F (-20°C to 260°C)**
PTFE **-50°F to 500°F (-46°C to 260°C)**

Greaseless Female NPT Couplers

Female NPT Size	Coupler Size	Seal Material	Max PSI @ 70°F (21°C)	Stainless Steel Part # [1]	Competitor Part # (New and Old)
1-1/2"	2"	PTFE encapsulated FKM	210	DBC77-150-GL	1777DL-SS15-GL/177D-SS15-GL
2"	2-1/2"		150	DBC77-200-GL	1777DL-SS20-GL/177D-SS20-GL

[1] Stainless steel corrosion resistance is comparable to 304 stainless steel

Female NPT Swivel Couplers

DBS61-200

Female NPT Size	Coupler Size	Seal Material	Max PSI @ 70°F (21°C)	Aluminum Part #	Competitor Part # (New and Old)
2"	2-1/2"	nitrile rubber	150	DBS61-200	1711ESL-AL20/1711ES-0200
		FKM		DBS62-200	1712ESL-AL20/1712ES-0200
		PTFE encapsulated silicone		DBS63-200	---

NOTE: See pages 120-136 for repair kits and replacement parts
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Valve Handle Locking Kits

Part #	Description
DBCL-200	valve handle locking kit for 1-1/2" and 2" couplers
DBCL-300	valve handle locking kit for 3" couplers

DBCL-200

Cam & Groove Style Dry Disconnect D2C Couplings

Application
- Dry disconnects help prevent spillage from normal or accidental disconnection of the connection. D2C-Series couplings are similar to the DBC-Series as shown on page 28, except the D2C do not have an internal seal cylinder, therefore the couplings do not automatically close. The D2C couplers are suited to vapor recovery, suction pump and applications where it is necessary to easily drain the hose or piping for cleaning. They can also be used when product retention in hose or pipe is desired, but environmental damage from an open coupling is not a threat

Features
- Helps eliminate the possibility of costly spills
- Compatible with most other brands of cam & groove style dry disconnects
- Special configurations can be designed for your application
- Female NPT
- Couplers below are used with the DBA adapters shown on pages 26 and 27
- Use standard cam & groove dust plugs, sized one size larger than the dry disconnect size, see chart below for dust plug size selection
- Stainless steel valve handle locking kit included on valve handle
- EZ Boss-lock™ automatic locking cam arms provide added security from accidental opening due to cam arms getting snagged or vibration. Very easy to use, just close the arms and they lock, to open simply lift the lever (possible even with gloves on)

Materials
- 316 stainless steel bodies with nitrile rubber [1], FKM [1], FKM-B [1], PTFE encapsulated silicone [1], EPT (EPDM) [1], FFKM, PTFE encapsulated FKM seals, see part number chart for full seal selection

Specifications
- Contact Dixon® at 877.963.4966 for working pressures at temperatures other than **70°F** (**21°C**) and for chemical compatibility, size, and material selection
- Use with Dixon Bayco® DBA-Series adapters. Manufactured to interchange with other cam & groove type dry disconnect couplings

[1] Dependent upon part #, see part number list below for more details

Female NPT Couplers

D2C71-150

D2C71-200

Female NPT Size	Coupler Size	Seal Material	Max PSI @ 70°F (21°C)	Stainless Steel Part #	Competitor Part #
1-1/2"	2"	nitrile rubber	210	D2C71-150	2271D-SS15
2"	2-1/2"	nitrile rubber	150	D2C71-200	2271D-SS20
1-1/2"	2"	FKM	210	D2C72-150	2272D-SS15
2"	2-1/2"	FKM	150	D2C72-200	2272D-SS20
1-1/2"	2"	PTFE encapsulated silicone	210	D2C73-150	2273D-SS15
2"	2-1/2"	PTFE encapsulated silicone	150	D2C73-200	2273D-SS20
1-1/2"	2"	EPDM	210	D2C74-150	2274D-SS15
2"	2-1/2"	EPDM	150	D2C74-200	2274D-SS20

NOTE: See page 137 for repair kits and replacement parts

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Bayonet Style Dry Disconnect Couplings

Application
- Bayonet dry disconnect fittings are ideally suited for the spill-less transfer of petroleum products such as fuel oil, lube oil blending, and tank truck delivery. The design of the Bayco® bayonet dry disconnect system ensures a spill free connection, fluid cannot flow until couplings are connected together and the valve is opened. The coupling can then not be disconnected until the valve handle is closed

Features
- Helps eliminate the possibility of costly spills
- Compatible with most other brands of bayonet style dry disconnects
- Female NPT
- Rubber dust caps and plugs with stainless steel chains are available to protect the adapters and couplers from contamination and damage
- Maximum operating pressure: **85 PSI** at **75°F (24°C)**, for pressure ratings at other temperatures contact Dixon®

Materials
- Adapters have anodized aluminum [1], brass [1] or stainless steel [1] bodies with either anodized aluminum [1] or brass [1] poppet valves. Couplers are aluminum. Adapters and couplers are available with either nitrile rubber or FKM seals [1]

Specifications
- Manufactured to interchange with other brands of bayonet type dry disconnect couplings
- Canadian registration number CRN #OH14055 all provinces

[1] Dependent upon part #, see part number list below for more details

| BA32-100 | BA32-200 | BA62-300 |

Female NPT Adapters

Female NPT Size	Seal Material	Description	Part #	Competitor Part #	Rubber Dust Cap Part #
1"	nitrile rubber	brass body and poppet valve	BA31-100	J71-ABBN0-A	BA31-100
	FKM		BA32-100	J71-ABVN0-A	BA32-100
2"	nitrile rubber	stainless steel body with brass poppet valve	BA31-200	J72A-BBN0-B/J72A-ABN0-B	BAC-200
	FKM		BA32-200	J72A-BVN0-B/J72A-AVN0-B	BAC-200
3"	nitrile rubber	brass body and poppet valve	BA31-300	J73A-BBN0-B	BAC-300
	FKM		BA32-300	J73A-BVN0-B	BAC-300
3"	nitrile rubber	anodized aluminum body and poppet valve	BA61-300	J73A-ABN0-B	BAC-300
	FKM		BA62-300	J73A-AVN0-B	BAC-300

NOTE: See page 138 for replacement parts

| BSS62-100 | BSS61-300 | BS61-300 |

Female NPT Couplers

Female NPT Size	Seal Material	Description	Part #	Competitor Part #	Rubber Dust Plug Part #
1"	nitrile rubber	anodized aluminum body with straight swiveling NPT connection	BSS61-100	J71C-ABN1E004	BSS61-100
	FKM		BSS62-100	J71C-AVN1E004	BSS62-100
2"	nitrile rubber	anodized aluminum body with straight non-swiveling NPT connection	BC61-200	J72C-ABN0-B	BCP-200
	FKM		BC62-200	J72C-AVN0-B	BCP-200
2"	nitrile rubber	aluminum body with straight swiveling NPT connection	BSS61-200	J72C-ABN1-B	BCP-200
	FKM		BSS62-200	J72C-AVN1-B	BCP-200
2"	nitrile rubber	aluminum body with 90° swiveling NPT connection	BS61-200	J72C-ABN2-B	BCP-200
	FKM		BS62-200	J72C-AVN2-B	BCP-200
3"	nitrile rubber	aluminum body with straight swiveling NPT connection	BSS61-300	J73C-ABN1-B	BCP-300
	FKM		BSS62-300	J73C-AVN1-B	BCP-300
3"	nitrile rubber	aluminum body with 90° swiveling NPT connection	BS61-300	J73C-ABN2-B	BCP-300
	FKM		BS62-300	J73C-AVN2-B	BCP-300

NOTE: See pages 139-142 for repair kits and replacement parts

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Bayonet Style Dry Disconnect Caps and Plugs

Application
- Bayonet dry disconnect caps and plugs keep dirt, debris and water out of couplers preventing build up on the sealing surface that will cause seals to fail prematurely

Features
- Simple to use
- Low cost
- Durable and flexible rubber
- Prevents contamination of product

Materials
- The caps have a stainless steel chain to secure them to the adapter chain lug. The plugs have a stainless steel chain to secure them to the coupler

BAC-300   BCP-300

Size	Description	Part #
2"	coupler plug	BCP-200
3"		BCP-300
2"	adapter cap	BAC-200
3"		BAC-300

5900-Series Safety Breakaway Coupling

Application
- Designed to protect loading arms and hoses used in petroleum loading applications

Features
- Designed to shear and separate protecting the loading arm or hose and preventing spillage of liquid product
- Shear bolts are replaceable allowing the fitting to be reassembled and put back in service
- Poppet design holds open permitting low pressure drop flow through the coupling, should the coupling shear as a result of a drive away, the internal poppets will snap shut preventing spillage and loss of product
- Compact, fits behind any API loading coupler
- PTFE seal option is typically used in fuel applications to resist long term exposure to fuel additives
- Break force varies with line pressure, refer to the maintenance & operating instructions for 5900-Series breakaway couplings

Materials
- Seal material options include nitrile rubber, FKM-GFLT, and PTFE
- Aluminum A356T6

Size	Seal Material	Part #
4"	nitrile rubber	5900ALBN400A
	FKM encapsulated PTFE	5900ALTV400A
	FKM-GFLT	5900ALVG400A

5500-Series API Couplers

Application
- Combined with API adapters, these couplers are suitable for railcar and tank truck loading or unloading

Features
- Locking five-cam design provides easy alignment and tight connection
- Modular design allows various face seal combinations to be compatible with different alternative fuels, performance levels, and applications
- Shaft seals can be changed without removing coupler from the loading arm
- Fully interlocked collar cannot be opened when connected and cannot be disconnected when opened
- Replaceable seal design while coupler is on loading arm
- 4" TTMA inlet mounting flange connection
- Ball-end handle for easy and comfortable operation
- No special tools needed for maintenance
- Reference dixonvalve.com for bill of materials and a complete list of repair kits

Materials
- Body: hard coated anodized 356T6 aluminum
- Shroud: hard coated anodized 356T6 aluminum with stainless steel insert
- Link, shaft, pin, and crank: hardened 17-4PH stainless steel
- Cam: CF8M stainless steel
- Poppet and bearing: Bayloy
- Seals: Baylast™, EPDM, FFKM, FKM-B, FKM-GFLT, fluorosilicone, and Hifluor

Specifications
- Seal operating temperature:
  - Baylast: **-20°F** to **250°F** (**-28°C** to **121°C**)
  - EPDM: **-40°F** to **250°F** (**-40°C** to **120°C**)
  - FFKM: **0°F** to **400°F** (**-18°C** to **204°C**)
  - FKM-B: **-10°F** to **400°F** (**-23°C** to **204°C**)
  - FKM-GFLT: **-20°F** to **400°F** (**-28°C** to **204°C**)
  - Fluorosilicone: **-50°F** to **300°F** (**-40°C** to **149°C**)
  - Hifluor: **23°F** to **350°F** (**-5°C** to **176°C**)
- Flow rate: **600 GPM** at **3 PSI** pressure drop, maximum flow rate: **1,000 GPM**
- Fully compliant with API RP1004:2003 specifications
- Burst tested: **450 PSI**

Description	Seal Material	Part #	Complete Repair Kit [1] Part #	Replaceable Nose Seal Part #
	Baylast	5500BL	5500RK2	5500RK8
	EPDM	5500E	5500RK3	5500RK9
	FFKM	5500K	5500RK6	5500RK12
4" API coupler	FKM-B	5500B	5500RK1	5500RK7
	FKM-GFLT	5500G	5500RK5	5500RK11
	Fluorosilicone	5500F	5500RK4	5500RK10
	Hifluor	5500H	5500RK19	5500RK20

[1] Complete repair kit contains all the seals, pins, and cotter keys to replace all the seals

NOTE: Stainless steel handles and locking handle kit options are available please contact Dixon for a quote

API Coupler Repair Kits

Description	Part #
small parts kit for 5500-Series rack coupler	5500RK21
aluminum replacement handle kit with bolt and nut	5500RK22
stainless steel replacement handle kit with bolt and nut	5500RK23
locking handle kit	5500RK24
aluminum short handle replacement kit with bolt and nut	5500RK25
replacement poppet kit with links, pins, and cotter pin	5500RK26
replacement seal cylinder-no seal	5500RK27
replacement FKM-GFLT bearing kit for 5500	5500RK51
hanger for API rack coupler	5204H

5-YEAR MECHANICAL WARRANTY1

Normal wear and tear items (including seals) not covered[1]

New

5500-Series

Replaceable nose seal: Replace without removal from the loading arm

5500RK24

Aluminum Groove Clamps

Features
- Lightweight yet rugged. Unlike steel groove clamps that secure the pipe ends with high clamping force against the tubing/piping walls, the Dixon® aluminum bolted clamp takes the full bolt force and locks into the groove of the tube/pipe, preventing distortion of the tube/pipe diameter
- Precision forged to provide an exact fit and great appearance
- Lock nuts prevent loosening in applications with vibration

Specifications
- Temperature ratings FKM-B: **20°F** to **300°F** (**-7°C** to **149°C**), Baylast™ and nitrile rubber: **-20°F** to **180°F** (**-29°C** to **82°C**)

Size	Seal	Part #	Max. PSI	Approx. Weight Lbs.	Bolt Torque [1]	Fuel Compatibility
2"	nitrile rubber	DBV-BN200	**400**	0.8		gasoline and diesel only
	FKM-B	DBV-VB200				gasoline and diesel, up to E100 and B100 biofuels
	Baylast	DBV-BL200				
3"	nitrile rubber	DBV-BN300	**170**	1.1		gasoline and diesel only
	FKM-B	DBV-VB300				gasoline and diesel, up to E100 and B100 biofuels
	Baylast	DBV-BL300			20 ft lbs	
4"	nitrile rubber	DBV-BN400	**120**	1.5		gasoline and diesel only
	FKM-B	DBV-VB400				gasoline and diesel, up to E100 and B100 biofuels
	Baylast	DBV-BL400				
5"	nitrile rubber	DBV-BN500	**75**	2		gasoline and diesel only
	FKM-B	DBV-VB500				gasoline and diesel, up to E100 and B100 biofuels
	Baylast	DBV-WB500				

DBV-BN400

⚠ [1] Bolts must be tightened evenly to prevent gasket pinching and clamp breaking. DO NOT tighten one side then the other. Over-torquing will not improve sealing and may result in failure of the clamps. DO NOT torque bolts over 30 ft-lbs.

Groove x Groove Painted Iron Clamps with Baylast Gasket

Features
- Painted red
- Baylast rated for biodiesel, ethanol, diesel, gas, and ULSD
- Groove x groove

Size	Seal	Maximum PSI	Part #
2"	Baylast	**500**	L02BL
	FKM-B		L02VB
3"	Baylast	**300**	L03BL
	FKM-B		L03VB
4"	Baylast	**300**	L04BL
	FKM-B		L04VB

L02BL

Replacement Clamp Gaskets

Clamp Size	Part #	Seal	Fuel Compatibility
2"	G200T		
3"	G300T	nitrile rubber (1 orange stripe)	gasoline and diesel only
4"	G400T		
2"	G200VB		
3"	G300VB	FKM-B (2 red stripe)	
4"	G400VB		gasoline and diesel, up to E100 and B100 biofuels
2"	G200BL		
3"	G300BL	Baylast (2 orange stripes)	
4"	G400BL		

G400T

Biofuel compatible 🌱

Big Mouth™ Diesel Nozzles

Features
- This nozzle is not to be used with gravity flow tanks
- Lightweight but strong
- Micro-touch valve provides smooth operation and exceptional flow control
- Roto-matic latch pin provides positive auto shut-off
- Pure PTFE packing eliminates stem leaks
- Super tough nylon hand guard

Features (cont.)
- Snap-on handle cover makes changing scuff guards easy
- With trigger hold-open clip

Approval
- Non Underwriters Listed nozzle

Female NPT Inlet	Spout Size	Intended Service	Approximate Flow Rate @ 20 PSI (GPM)	Approximate Weight Lbs.	Scuff Guard Color	Part #
1"	1-1/8"	diesel	**27**	3	yellow	DFN100

Fuel Master™ Diesel Nozzles

Features
- High flow capacity
- Micro-touch valve provides smooth operation and exceptional flow control
- Roto-matic latch pin provides positive auto shut-off
- Pure PTFE packing eliminates stem leaks
- Super tough nylon hand guard

Features (cont.)
- Easy to change 'locknut style' spout assembly
- With trigger hold-open clip

Approval
- Non Underwriters Listed nozzle

Female NPT Inlet	Spout Size	Intended Service	Approximate Flow Rate @ 20 PSI (GPM)	Approximate Weight Lbs.	Scuff Guard Color	Part #
1"	1-3/16"	diesel	**35**	3-1/2	green	DFN100HF
			45			DFN100SF

DFN100HF

DFN100SF

DEF Automatic Shutoff Nozzles

Application
- Designed for diesel exhaust fluid, aluminum body double coated inside and out with PTFE baked on at **500°F** (**260°C**)

Materials
- Spout: stainless steel
- Wetted parts: stainless, acetal, PTFE
- Seals are FKM-A

BSPP Inlet	Spout Size	Intended Service	Approximate Flow Rate @ 20 PSI (GPM)	Approximate Weight Lbs.	Scuff Guard Color	Part #
3/4"	13/16"	diesel	**30**	3-1/2	blue	DEFN075

Fueler 100™ Automatic Diesel Nozzles

Application
- Tough, reliable and easy to operate automatic nozzle for fueling trucks, buses, off-road equipment and fuel oil delivery

Material
- Lightweight Tenzaloy aluminum casting

Specification
- Good flow rating of **75 GPM** at **30 PSI**
- Replaces 1124D and 1144D

Female NPT Inlet	Spout Size	Intended Service	Approximate Flow Rate @ 30 PSI (GPM)	Approximate Weight Lbs.	Part #
1-1/4"	1-3/8"	diesel	75	6-7/8	DNOG5-NL [1]
					DNOG5
1-1/2"					DNOG6

[1] The DNOG5-NL is a 1-1/4" nozzle without the locking handle

Replacement Nozzles

Replacement for	Description	Part #
DNOG6	spout assembly with O-ring for fueler; nut not included	SF1N
	nut for DNOG6	NUT-106

Pressure Nozzles for Bulk Delivery

112D

Features
- Easy opening dash pot design with shock-less closing
- Available with or without an aluminum spout (brass spouts optional)
- Detachable and replaceable trigger ratchet

Specifications
- High flow design, 1-1/2" nozzle (112D) provides **100 GPM** flow at approx **10 PSI**

Female NPT Inlet	Outlet Type	Part #
1-1/4"	1-1/4" aluminum spout	114D
	1-1/4" female NPT	114DNS
1-1/2"	1-1/2" aluminum spout	112D
	1-1/2" female NPT	112DNS

112DNS

Replacement Spouts

Male NPT Size	Description	Part #
1-1/4"	replacement aluminum spout	1143A
	optional brass spout	1143B
1-1/2"	replacement aluminum spout	1125A
Female NPT inlet: 1-1/2", outlet type: 1-1/4"	1-1/2" spout crimped to 1-1/4"	1125A-125NPT
1-1/2"	optional brass spout	1125B

NOTE: See page 144-145 for repair kits and replacement parts
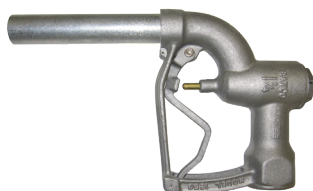
Large Capacity Low Pressure Gravity Nozzle

Female NPT Inlet	Outlet Type	Part #
1-1/4"	1-1/4" aluminum spout	1250-94

NOTE: See page 146 for repair kits and replacement parts

Ball Nozzles for Bulk Delivery

Application
- Ball nozzles have a very high flow rate and low pressure drop and are ideal for bulk oil and fuel deliveries, they are basically a full port ball valve with an inlet swivel and outlet spout

Features
- Full 1" flow path through the ball is computer designed and higher than any known competitors, which results with very low pressure drop permitting higher flow rates at lower pressure, reducing foaming or product backups
- Unique swivel design permits leak-free service, even at temperatures as low as **-40°F (-40°C)** at **100 PSI**
- Comes standard with **3 PSI** check valve, helps ensure residual fuels within the delivery hose and nozzle are contained (optional **5 PSI** check valve kit is available, order field replaceable kit BL-RK11 for 1-1/4" and 1-1/2" ball nozzles, and kit BL-RK112 for 2" super ball nozzles)
- Available with field replaceable outlet spout or quick fill swivel nut

Materials
- Black anodized aluminum main body, with aluminum spout, polished stainless steel handle and latch, Bayloy inlet swivel, hardened carbon steel swivel ball race, through hardened chrome steel ball bearings, nitrile rubber and PTFE seals, acetal valve seat and stainless steel valve ball

Specification
- Manufactured to connect to NPT threaded hose connections

NOTE: All fuels contain additives, which vary by fuel brand and season. Please contact Dixon® with a list of all additives and we will advise of any known compatibility issues

BL072	BL072NS	BL062/BL064	BL920
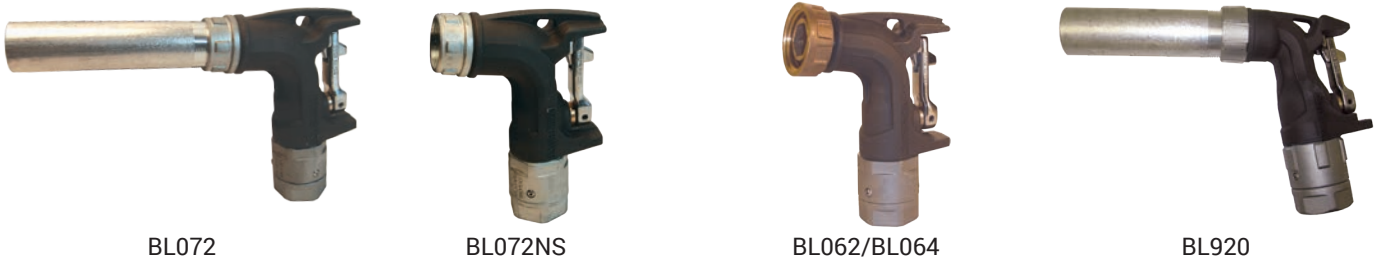
Female NPT Swivel Inlet	Outlet Type	Part #
1-1/4"	quick fill nut	BL062
	1-1/4" aluminum spout	BL066
	1-1/4" female NPT	BL066NS
1-1/2"	1-1/4" aluminum spout	BL068
	1-1/4" female NPT	BL068NS
	quick fill nut	BL064
	1-1/2" aluminum spout	BL072
	1-1/2" female NPT	BL072NS
	2" aluminum spout	BL918
2"	1-1/2" aluminum spout	BL919
	2" aluminum spout	BL920

Replacement Spouts and Quick Fill Swivel Nuts

Male NPT Size	Description	Part #
1-1/4"	replacement aluminum spout	1143A
	replacement brass spout	BLS125
	bronze quick fill nut adapter for BL066NS and BL068NS	BL002
1-1/2"	replacement aluminum spout	1125A
	replacement brass spout	BLS150
	bronze quick fill nut adapter for BL072NS	BL001
2"	replacement aluminum spout	391137
	replacement bronze quick fill nut adapter for BL062 and BL064	BL005

BL002

NOTE: See pages 149-152 for repair kits and replacement parts

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Standard Low Pressure Gravity Utility Nozzles

Application
- These delivery nozzles are manual operation (do not have an automatic flow shut off) ideally suited for low pressures (maximum **25 PSI**) such as agricultural and 12 volt truck utility pumps, or gravity flow applications

Features
- Rugged design
- Good flow rating, provides **95 GPM** flow at approximately **20 PSI**
- Choice of 3/4" or 1" inlets, and a variety of outlets and spouts

Materials
- Die cast zinc body, plated steel trigger and aluminum spout, nitrile rubber seals

Specifications
- Manufactured to connect to NPT threaded hose connections

NOTE: All fuels contain additives which can vary by fuel brand and season. Please contact Dixon® with a list of all additives and we will advise of any known compatibility issues
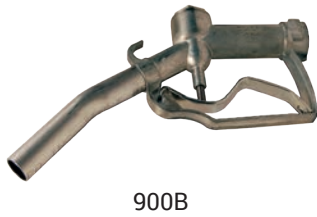
900B

Female NPT Inlet	Outlet Type	Part #
3/4" [1]	3/4" straight spout	900S34
	3/4" bent spout	900B34
1"	1" UNS female thread (nozzle body only)	900
	3/4" straight spout	900W34S
	3/4" bent spout	900W34B
	1" straight spout	900S
	1" bent spout	900B

[1] Nozzles with 3/4" female NPT inlet, use a steel bushing to achieve 3/4" female NPT inlet

Replacement Spouts

875-5

Description	Part #
3/4" replacement straight spout	234-80-4
3/4" replacement bent spout	234-80-5
1" replacement straight spout	875-4
1" replacement bent spout	875-5

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Male x Female NPT Nozzle Swivels

Sizes
- 3/4" and 1"
- 1-1/4" to 2"

Materials
- Aluminum body, brass hex nut, FKM/nitrile rubber seals, nylon cord retainer
- Bayloy body, hardened carbon steel swivel ball race, through hardened chrome steel ball bearings, nitrile rubber and PTFE seals

Specifications
- **150 PSI** maximum rating
- Manufactured to connect to NPT threaded hose and nozzle connections

Size	Description	Part #
3/4"		DAWS34
1"		DAWS10
1-1/4"	male NPT x female NPT	SWMF125
1-1/2"		SWMF150
2"		SWMF200

SWMF150

NOTE: All fuels contain additives which can vary by fuel brand and season. Please contact Dixon® with a list of all additives and we will advise of any known compatibility issues

Male NPT x Hose Shank Swivel

Size	Description	Part #
1-1/2"	male NPT x hose shank, nitrile rubber seal	1565U

1565U

NOTE: See page 148 for repair kits and replacement parts

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Breakaways

Application
- Provides breakaway protection for high capacity fueling operations such as truck and bus terminals, mining, off-road fueling and fuel oil delivery

Features
- Nitrile rubber seals
- Unique ball valves seal both ends when separated
- Design provides consistent and reliable performance
- Lightweight
- Easy to repair
- 3/4" is Underwriter's Listed

Material
- Aluminum body

DAB34

Size	Number of Brass Break Rings	Separation Force (lbs)	Part #
3/4"	2	325	DAB34
1"			DAB1

Application
- Provides breakaway protection for high capacity fueling operations such as truck and bus terminals, mining, off-road fueling and fuel oil delivery

Features
- FKM/nitrile rubber seals
- Check valve, PTFE ball seals both ends when separated

Material
- Nickel plated aluminum body

DAB15

Size	Number of Brass Break Rings	Separation Force (lbs)	Part #
1-1/4"	4	600	DAB14
1-1/2"			DAB15
2"	6	800	DAB2

Automatic Pressure/Vacuum Relief Caps for Stationary Tanks

Application
- These caps are threaded into the top of stationary (non-mobile) above ground fuel storage tanks, where they serve two purposes: a) They can be used as a thread in and lockable fuel filler cap. b) They protect the tank from expansion or implosion, the internal relief valve is normally closed, but opens to relieve internal pressure or vacuum

Features
- Normally closed vent stops fuel evaporation and airborne contaminants
- Protects tank from pressure or vacuum build-up. Relieves pressure at **2 PSI** and vacuum at 0.7 HG at a rate of 20 SCFM
- Can be used as a fuel filler cap
- Padlockable to prevent fuel theft and tampering

Materials
- Die cast zinc body, brass screen

Specifications
- Manufactured to thread into both NPS and NPT tank openings

Male NPT	Part #
2"	2000L
2-1/2"	2500L

NOTE: Not intended for use on mobile tanks. To ensure that the cap can properly vent, the vent cap must be kept free of any debris i.e. dirt, snow, ice, rags etc.

2500L

Standard Vent Caps for Stationary Tanks

Features
- Always open vent
- Protects tank from pressure or vacuum build-up
- Can be used as a fuel filler cap

Male NPS	Part #
2-1/2"	2500SFV

NOTE: Not intended for use on mobile tanks. To ensure that the cap can properly vent, the vent cap must be kept free of any debris i.e. dirt, snow, ice, rags etc.

2500SFV

Automatic Pressure/Vacuum Relief Caps for Mobile Tanks

Features
- Normally closed vent, stops fuel evaporation and airborne contaminants
- Protects tank from pressure or vacuum build-up. Relieves pressure at **7.5-9 PSI** and vacuum at .33 HG
- Can be used as a fuel filler cap
- Padlockable to prevent fuel theft and tampering

Male NPS	Part #
2"	200-PV-9

NOTE: To ensure that the cap can properly vent, the vent cap must be kept free of any debris i.e. dirt, snow, ice, rags etc.

200-PV-9

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Dixon® Cam & Groove Styles

Dixon

Features
- Precision machined to rigid tolerances
- Durable stainless steel cam arm pins will not rust or bind, providing greater strength and safety
- Recess holds gasket firmly in place - ensures proper placement
- Long shank design allows proper banding, thus eliminating the major cause of hose damage

Dixon Global

Features
- Interchanges with all products produced to A-A-59326D
- All couplers include locking safety clip
- Aluminum couplers available with brass or stainless steel cam arms
- Brass fittings are produced by forging process providing greater structural integrity and mechanical strength

Boss-Lock

Features
- The cast-in lugs allow safety clips to be attached once the lugs are passed through slots in the special cam lever arms, providing a patented safety feature. The clips prevent the coupler from being unlocked until they are removed, providing a *positive locking action*.
- Boss-Lock investment stainless steel cam arms are guaranteed! Should you break a Boss-Lock investment stainless steel cam arm, return it to the nearest warehouse for a free replacement.
- The pull ring safety clip simplifies the locking action on Boss-Lock couplers. No more inserting clips or dangling lanyards, just a twist and it's locked, giving you a low-profile positive locking action.

EZ Boss-Lock

Features
- No more fumbling with clamps, wire, clips, or pins, just close the handles and the locking mechanism is engaged
- Extremely easy to open, the release lever is under your thumb when you want to open the fitting; ergonomic
- Can be supplied with custom shanks; also available with swaged and PF shanks for hard-to-couple chemical hoses
- EZ Boss-Lock investment stainless steel cam arms are guaranteed! Should you break one, return it to the nearest warehouse for a free replacement.

Dixon® Cam & Groove Styles

Vent-Lock® Safety

Features
- Safety release cam & groove couplings permit 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 & groove products; use only with Vent-Lock L-style fittings

Venting EZ Boss-Lock

Features
- Unique Dixon system for safely venting systems under pressure
- Utilizes EZ Boss-Lock cam arms in addition to EZLink® tabs that create a secondary positive locking mechanism
- Connects to standard cam & groove adapters
- Design allows for a more ergonomic and safe experience for user

EZLink® Armless

Features
- Automatic couplers push-to-connect, providing a reliable connection
- Coupler tabs cannot be pushed to disconnect when pressurized to **20 PSI** or over
- Low profile allows easy connection and disconnection in tight applications
- Coupler push tabs can be locked with safety pins and/or zip tie

Cam & Groove Configurations

Configurations are representative of the Dixon® line of cam & groove.

Type A
adapter x female NPT
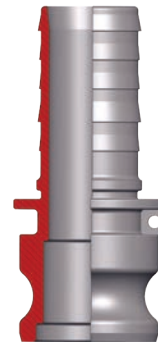
Type E
adapter x hose shank
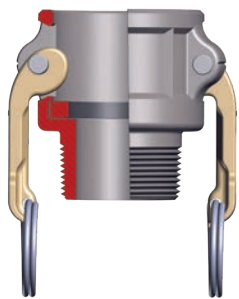
Type B
coupler x male NPT
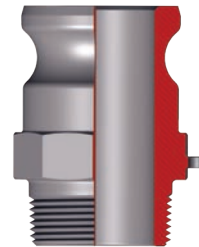
Type F
adapter x male NPT
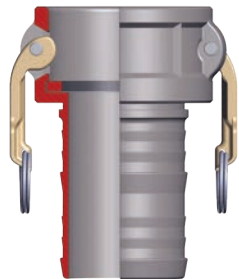
Type C
coupler x hose shank
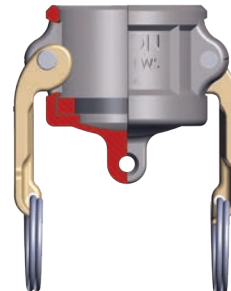
Type DC[1]
dust cap
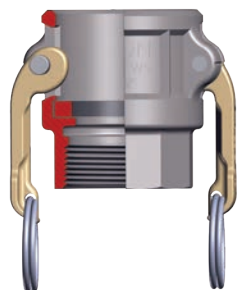
Type D
coupler x female NPT

Type DP[1]
dust plug

⚠ [1] Dust caps and dust plugs are not to be used in pressure applications for safety and environmental reasons.

⚠ **WARNING**

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

Ordering System

200 - A - AL   RB200EZ

→ material ←

→ style ←
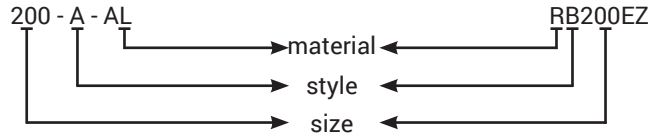
→ size ←

Size represents the coupler or adapter and hose or pipe end (i.e. 200 = 2"). If the coupling is a jump size, the coupler or adapter is the first size (i.e. 4030-C is 4" coupler to 3" hose shank).

Operation of Cam & Groove

1. To make connection, slide the adapter into the coupler and, with normal hand pressure, press the cam levers down.

2. Uncoupling is as quick and simple as coupling. Just lift the cam arms and remove the adapter.

Specifications on Dixon® Cam & Groove

Specifications

- Dixon, Boss-Lock, and EZ Boss-Lock cam & groove couplers and adapters are produced to interchange with all product produced to Commercial Item Description A-A-59326D.
- No standard exists for the 1/2", 5", and 8" fittings, and generally these sizes do not interchange with other manufacturers' products.
- Dust caps and dust plugs are **not** to be used in pressure applications for safety and environmental reasons.
- *Designed for use with liquids*; consult Dixon for specific recommendations.

Pressure Ratings

Recommendations based on the use of mating Dixon fittings at ambient temperature **70°F (21°C)** with standard nitrile rubber seal installed. For use at elevated temperature or other unusual operating conditions, consult Dixon. Dixon, Boss-Lock, and EZ Boss-Lock couplers' and adapters' maximum working pressures are as follows:

Size	1/2"	3/4" thru 2"	2-1/2"	3"	4"	5" and 6"	8"
PSI	150	250	150	125	100	75	50
PSI (working pressure with King Crimp® ferrule system)	150	250	150	150	150	75	50

Cam & Groove Nominal Take-Up Lengths
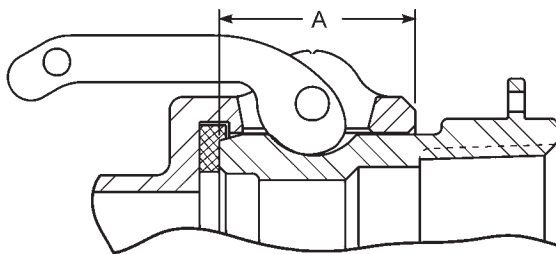
Coupling Size	Dimension A
1/2"	0.97"
3/4"	0.97"
1"	1.20"
1-1/4"	1.44"
1-1/2"	1.50"
2"	1.81"
2-1/2"	1.82"
3"	1.78"
4"	1.84"
5"	2.00"
6"	2.13"
8"	2.06"
8"	3.22"

NOTE: For more information on sizes and styles see Dixon Product List 2022

FloTech® Overfill Detection System

**All FloTech electronics manufactured after
January 1, 2015 are covered by our 5 year warranty.**

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FloTech® Overfill Detection Products

Application
- The overfill detection system used on petroleum cargo tanks typically consists of a sensor mounted in each tank compartment, an onboard monitor located near the bottom loading valves and an API compatible socket. The overfill system is intended to detect a pending overfill condition inside the cargo tank compartment and signal the loading rack to close the fuel supply control valve, to prevent a spill of product. These systems are required by law as part of the bottom loading system and considered a secondary emergency shut off device. The overfill system is typically triggered when the primary metering system fails to load the cargo tank compartment with the correct volume of product

Features
- Knowledge and experienced design: Dixon® electronic staff are seasoned veterans when it comes to overfill systems. Our employees have years of experience in electronics, manufacturing and most important, with in-the-field trouble shooting of overfill terminal and tanker installations. That is why we have focused on easy, drop-in replacement features with improved probe life, and why we have included heavy duty hardware made from premium, corrosion resistant materials

- 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

Prism Carrier
Elastomer Seals
Probe Tube
Prism
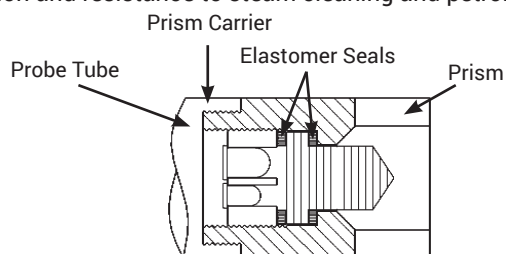
- "Best in Class" technical support: Our goal is to provide the most reliable overfill components and system available on the market today. Over the years the FloTech brand has earned a reputation for reliable overfill components compatible with other common systems. Don't take our word on this; ask one of our many customers!

- Easy Installation: FloTech brand items are shipped with easy to follow installation instructions and manuals (also available online at dixonvalve.com under the Resources menu, select Petroleum and Dry bulk products). If you need a little extra help call our North American toll free technical service hot line at 877.582.3569 (or from other parts of the world, dial 001-513-874-8499). In fact, call us with any overfill system questions (regardless of the brand) and we will work with you to help solve the problem. FloTech brand components are manufactured to be installed easily, even on other systems. We designed them to be drop-in compatible with API systems being used around the world

- Products in stock, delivered on time: FloTech brand products are stocked at Dixon locations throughout the world. Most orders can be processed and delivered within 24 hours. We know that downtime costs you money so we do everything we can to ensure you receive your parts when you need them

- A great product with an unparalleled warranty: FloTech brand products are covered by a five year limited warranty. The warranty is part of the total system that makes FloTech overfill detection the best choice for your operation. See limited warranty on the inside back cover for details

- Biofuel compatible: up to E100 (100% ethanol) and B100 (100% biodiesel). For detailed fuel compatibility, please refer to the chart shown on page 3

- Probes are rated to 36 PSIG per 49 CFR 178.345-5 temperature range **-40°F (-40°C)** to **160°F (71°C)** refractive index range 1.37 to 1.60 viscosity less than 1000 SSU

Materials
- Dependent upon the component, see each product section for materials

Specifications
- Manufactured to American Petroleum Institute standard API RP-1004, which allows for drop in interchange ability with other brands

Biofuel compatible, see fuel compatibility chart on page 3 for more information

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FloTech® Checkmate Overfill/Retain Plug-n-Play System
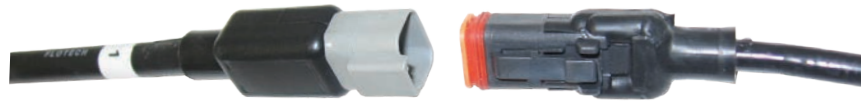
Application
- The reason for many overfill system breakdowns is failed or poor wiring connections. The required amperage within the overfill system is so low that any poorly wired or corroded wiring connections tend to fail (the low current cannot pass through corrosion or poor connections). To remove the possibility of wiring system problems, Dixon® has introduced the FloTech Plug-n-Play system, all the wire connections are prewired and tested at the factory using high quality weather proof cables and plugs. Plug-n-Play system installation takes a fraction of the time to install when compared to conventional systems, just mount all the components and simply plug them all together

Features
- Prewired cables and plugs on sensors, wiring harnesses, onboard monitor and sockets, make it simple to install our Plug-n-Play system in much less time than conventional systems
- Secure and weather tight connections all the time remove the possibility of poor wiring connections. Sealed connectors pass IP67 and DIN40050 salt spray tests
- Easy installation: literally Plug-n-Play, just mount the components and plug them all together
- Biofuel compatible up to E100 (100% ethanol) and B100 (100% biodiesel)

Materials
- Dependent upon the component, see each product section for materials

Specification
- Manufactured to American Petroleum Institute standard API RP-1004, which allows for interchangeability

Monitors with Integrated Dual Sockets

Features
- Integrated optic and thermistor dual sockets with onboard monitor all in one aluminum case
- Takes less space than utilizing separate sockets and monitor
- Prewired and factory tested with Plug-n-Play cabling and plugs, eliminates hours of manual crimped wire connections and removes the problems and worries associated with connection problems
- Includes water-tight integrated fuse holder, all stainless steel hardware and terminal blocks prevent corrosion
- Built-in configurable high current relay output for pump or signal control
- Color coded display shows well on trailers
- Sockets come standard with Flotech unique guaranteed for life stainless steel wear rings

Available Integrated Options:
- Top (overfill) only monitoring, or both top (overfill) and bottom (retain) monitoring
- Pre-wired ground bolt
- Pre-wired pressure sensor which can be used to interlock brakes or vapor vents
- Pre-wired Trailer Identification Module
- Pre-wired dual male pin power cord

Part #	Plug-n-Play Connections		Available Accessories Installed					Sockets	
	Top Overfill Detection	Bottom Retain Detection	Ground Bolt	Pressure Sensor Switch	Trailer ID Module	Dual Male Pin-Power Cord	Stainless Steel 'Guaranteed for Life' Wear Rings	Optic	Thermistor
FT208-390	---	---	---	---	---	---	✓	5 contact pins, 3 J-slots	10 contact pins, 4 J-slots
FT208-390G	---	---	✓	---	---	---	✓		
FT208-390GS	---	---	✓	✓	---	---	✓		
FT208-390GST	---	---	✓	✓	✓	---	✓		
FT208-390GT	---	---	✓	---	✓	---	✓		

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® Checkmate Overfill/Retain Plug-n-Play System Monitors with Integrated Dual Sockets (continued)

Part #	Plug-n-Play Connections		Available Accessories Installed					Sockets	
	Top Overfill Detection	Bottom Retain Detection	Ground Bolt	Pressure Sensor Switch	Trailer ID Module	Dual Male Pin-Power Cord	Stainless Steel 'Guaranteed for Life' Wear Rings	Optic	Thermistor
FT208-390P	✓	---	---	---	---	---	✓	5 contact pins, 3 J-slots	10 contact pins, 4 J-slots
FT208-390PG	✓	---	✓	---	---	---	✓		
FT208-390PGS	✓	---	✓	✓	---	---	✓		
FT208-390PGST	✓	---	✓	✓	✓	---	✓		
FT208-390PGT	✓	---	✓	---	✓	---	✓		
FT208-390PGSO	✓	---	✓	✓	---	✓	✓		
FT208-390PGSTO	✓	---	✓	✓	✓	✓	✓		
FT208-390PP	✓	✓	---	---	---	---	✓		
FT208-390PPG	✓	✓	✓	---	---	---	✓		
FT208-390PPGS	✓	✓	✓	✓	---	---	✓		
FT208-390PPGST	✓	✓	✓	✓	✓	---	✓		
FT208-390PPGT	✓	✓	✓	---	✓	---	✓		
FT208-390PPGSO	✓	✓	✓	✓	---	✓	✓		
FT208-390PPGSTO	✓	✓	✓	✓	✓	✓	✓		
FT208-391P	✓	---	---	---	---	---	✓	5 contact pins, 4 J-slots	10 contact pins, 4 J-slots
FT208-391PG	✓	---	✓	---	---	---	✓		
FT208-391PGS	✓	---	✓	✓	---	---	✓		
FT208-391PGST	✓	---	✓	✓	✓	---	✓		
FT208-391PGT	✓	---	✓	---	✓	---	✓		
FT208-391PP	✓	✓	---	---	---	---	✓		
FT208-391PPG	✓	✓	✓	---	---	---	✓		
FT208-391PPGS	✓	✓	✓	✓	---	---	✓		
FT208-391PPGST	✓	✓	✓	✓	✓	---	✓		
FT208-391PPGT	✓	✓	✓	---	✓	---	✓		

NOTE: See pages 153-155 for repair kits and replacement parts

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® Checkmate Overfill/Retain Plug-n-Play System Stand Alone Monitors

monitor

FT295

Features
- Prewired and factory tested with Plug-n-Play cabling and plugs, eliminates hours of manual crimped wire connections, and removes the problems and worries associated with connection problems
- Includes water-tight integrated fuse holder, all stainless steel hardware and terminal block within the aluminum housing
- High tech color-coded display shows well on trailers
- Monitors include advanced diagnostic capabilities as well as signal translation abilities for all socket types (optic, thermistor or float). The system offers true load at any rack compatibility

Available Integrated Options:
- Top (overfill) only monitoring, or both top (overfill) and bottom (retain) monitoring

Part #	Checkmate Monitor with Plug-N-Play Connectors
FT208P	top overfill protection only
FT208PP	top overfill and bottom retain detection
FT208PPC	top overfill and bottom retain detection, for Canadian 'b' trains
FT208PSS	dual pressure switches
FT208LCM	checkmate load control monitor
FT295	alarm interface module assembly

NOTE: See page 155 for repair kits and replacement parts

Stand Alone Socket Assemblies

FT390PG-20

Features
- Pre-wired and factory tested with Plug-n-Play cables and plugs, eliminates hours of manual crimping, and removes the problems and worries associated with connection problems
- Aluminum housings, with either aluminum hardcoat or stainless steel wear rings, stainless steel contact pins
- Dual and triple socket assemblies take less space than multiple single sockets

Available Integrated Options:
- Pre-wired internal ground wire (dual or triple socket assemblies)
- Pre-wired Trailer Identification Module (dual or triple socket assemblies)
- FT300P and FT301P sockets are available with Flotech unique guaranteed for life stainless steel wear rings as options. Plug-n-Play dual and triple sockets come standard with guaranteed for life stainless steel wear rings

Part #	Socket	API Optic	Thermistor	Optic J560	Internal Ground Wire
FT300P	single socket	5 contact pins and 3 J-slot	---	---	---
FT300PG	single socket	5 contact pins and 3 J-slot	---	---	✓
FT300GT	API optic socket with cap, ground wire and TIM to the single sockets with aluminum hardcoat J-slot section				
FT301P	single socket	---	8 contact pins and 4 J-slot	---	---
FT306P	single socket	---	---	✓	---
FT390PG-20 [1]	dual socket, 20' cable	5 contact pins and 3 J-slot	10 contact pins and 4 J-slot	---	✓
FT390PGT-20	dual socket, 20' cable	---	---	---	✓
FT394P [1]	triple socket	5 contact pins and 3 J-slot	10 contact pins and 4 J-slot	✓	---
FT394PG [1]	triple socket	5 contact pins and 3 J-slot	10 contact pins and 4 J-slot	✓	✓
FT394VP [1]	triple socket vertical arrangement	5 contact pins and 3 J-slot	10 contact pins and 4 J-slot	✓	---
FT394VPG [1]	triple socket vertical arrangement	5 contact pins and 3 J-slot	10 contact pins and 4 J-slot	✓	✓
FT395P-20 [2]	triple socket, 20' cable	5 contact pins and 4 J-slot	10 contact pins and 4 J-slot	✓	---
FT395PG-20 [2]	triple socket, 20' cable	5 contact pins and 4 J-slot	10 contact pins and 4 J-slot	✓	✓
FT391P-20	dual socket, 20' of Plug-n-Play cable, 4 J-slot				
FT391PG-20	dual socket, 20' of Plug-n-Play cable, 4 J-slot, internal ground wire				

NOTE: See pages 156-161 for repair kits and replacement parts
[1], [2] Guaranteed for life stainless steel wear rings included (U.S. [1], Canada [2])

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® Checkmate Overfill/Retain Plug-n-Play System Overfill Sensors

Features

- Overfill detection sensors are intended to detect a pending overfill condition inside the fuel tank compartment. When they are wetted (come in contact with the fuel) they signal the fuel loading rack to close the fuel supply control valve, to prevent a spill of product
- Prewired and factory tested with Plug-n-Play cabling and plugs, eliminates hours of manual crimped wire connections, and removes the problems and worries associated with connection problems. Easy to install, just mount the housing into the tank and plug the cables together
- Trouble free probes: FloTech brand probes incorporate a double elastomer design which seals and secures the sensitive glass optic prism tip. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and petroleum chemical attack
- Custom lengths available upon request
- The FT151P-Series sensor housing contains a Plug-n-Play probe in a cast aluminum housing. The sensor housing has a 2" NPT mounting thread, heavy duty stainless steel hardware, and FKM probe seal. Install into either a 2" NPT threaded port or a 2-3/8" diameter tank opening using the gasket and locking nut provided. All screws and rings are heavy duty stainless steel for easy assembly and long life

Part #	Description	Replacement Probes
FT151P	housing with 7" Plug-n-Play overfill detection probe, with Plug-n-Play harness connector	FT150P
FT151P-12	housing with 12" Plug-n-Play overfill detection probe, with Plug-n-Play harness connector	FT150P-12
FT151P-18	housing with 18" Plug-n-Play overfill detection probe, with Plug-n-Play harness connector	FT150P-18

NOTE: See page 162 for repair kits and replacement parts

Retain Sensors

Features

- Retain sensors inform the loading terminal if the tank compartments are empty, or if there is product left in the tank prior to re-loading the tank (product has been retained)
- Prewired and factory tested with Plug-n-Play cabling and plugs, eliminates hours of manual crimped wire connections, and removes the problems and worries associated with connection problems. Easy to install, just mount the housing into the tank and plug the cables together
- Trouble Free Probes: 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
- The FT152 sensor is a bottom retain detection sensor. Sensor is shipped with a 1/2" NPT weld-on aluminum half coupling for mounting. The main sensor portion is stainless steel to prevent galling in the tank. The wiring box is plastic to prevent corrosion

Part #	Description
FT152P	housing with Plug-n-Play retain probe, with Plug-n-Play harness connector

NOTE: See page 163 for repair kits and replacement parts

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® Checkmate Overfill/Retain Plug-n-Play System Wiring Harnesses

Features
- Pre-wired and factory tested with Plug-n-Play cabling and plugs, eliminates hours of manual crimped wire connections, and removes the problems and worries associated with connection problems. Easy to install, just mount all the components (sensors, sockets, monitors) onto the tank and plug them into the pre-configured harness
- Plug-n-Play cable harnesses come pre-configured for the type of tank (truck mounted tanks or for full length tank trailers) the number of tank compartments, standard harnesses have been designed to fit most standard tank configurations
- Custom length harnesses are available
- Secure and weather tight connections all the time, remove the possibility of poor wiring connections. Sealed connectors pass IP67 and DIN40050 salt spray tests

Overfill Detection Plug-n-Play Cable Harnesses for Full Length Tank Trailers

Part #	Description
FT20801	one compartment tank trailer. Overfill detection (top) cable harness with Plug-n-Play connections
FT20802	two compartment tank trailer. Overfill detection (top) cable harness with Plug-n-Play connections
FT20803	three compartment tank trailer. Overfill detection (top) cable harness with Plug-n-Play connections
FT20804	four compartment tank trailer. Overfill detection (top) cable harness with Plug-n-Play connections
FT20805	five compartment tank trailer. Overfill detection (top) cable harness with Plug-n-Play connections
FT20806	six compartment tank trailer. Overfill detection (top) cable harness with Plug-n-Play connections

Retain Detection Plug-n-Play Cable Harnesses for Full Length Tank Trailers

Part #	Description
FT20801S	one compartment tank trailer. Retain (bottom) cable harness with Plug-n-Play connections
FT20802S	two compartment tank trailer. Retain (bottom) cable harness with Plug-n-Play connections
FT20803S	three compartment tank trailer. Retain (bottom) cable harness with Plug-n-Play connections
FT20804S	four compartment tank trailer. Retain (bottom) cable harness with Plug-n-Play connections
FT20805S	five compartment tank trailer. Retain (bottom) cable harness with Plug-n-Play connections
FT20806S	six compartment tank trailer. Retain (bottom) cable harness with Plug-n-Play connections

Overfill Detection Plug-n-Play Cable Harnesses for Truck Mounted Tanks

Part #	Description
FT20801TWS	one compartment truck mounted tank. Overfill detection (top) cable harness with Plug-n-Play connections
FT20802TWS	two compartment truck mounted tank. Overfill detection (top) cable harness with Plug-n-Play connections
FT20803TWS	three compartment truck mounted tank. Overfill detection (top) cable harness with Plug-n-Play connections
FT20804TWS	four compartment truck mounted tank. Overfill detection (top) cable harness with Plug-n-Play connections
FT20805TWS	five compartment truck mounted tank. Overfill detection (top) cable harness with Plug-n-Play connections
FT20806TWS	six compartment truck mounted tank. Overfill detection (top) cable harness with Plug-n-Play connections

Monitor to Harness Extensions

Part #	Description
FT20800-EXT-2FT	2' monitor to harness extension
FT20800-EXT-8	8' monitor to harness extension
FT20800-EXT-25	25' monitor to harness extension
FT20800-EXT-36	36' monitor to harness extension

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® Checkmate Overfill Detection (Black and White 2 Wire) Systems (Top Detection Only)

Features
- FloTech brand overfill system kits provide everything needed to install a new overfill system on your tank. One to eight compartment kits are available from our inventory. Systems include: 1 FT208 monitor, 1 FT151 overfill sensor per compartment, FT404 cable and FT402 strain reliefs (cable glands)
- Other probe lengths are available

Part #	Description
FT2801	checkmate, 1 compartment system (top only)-7" probes
FT2802	checkmate, 2 compartment system (top only)-7" probes
FT2803	checkmate, 3 compartment system (top only)-7" probes
FT2804	checkmate, 4 compartment system (top only)-7" probes
FT2805	checkmate, 5 compartment system (top only)-7" probes
FT2806	checkmate, 6 compartment system (top only)-7" probes
FT2807	checkmate, 7 compartment system (top only)-7" probes
FT2808	checkmate, 8 compartment system (top only)-7" probes
FT2801-12	checkmate, 1 compartment system (top only)-12" probes
FT2802-12	checkmate, 2 compartment system (top only)-12" probes
FT2803-12	checkmate, 3 compartment system (top only)-12" probes
FT2804-12	checkmate, 4 compartment system (top only)-12" probes
FT2805-12	checkmate, 5 compartment system (top only)-12" probes
FT2806-12	checkmate, 6 compartment system (top only)-12" probes
FT2807-12	checkmate, 7 compartment system (top only)-12" probes
FT2808-12	checkmate, 8 compartment system (top only)-12" probes

NOTE: Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

FloTech Checkmate Overfill Detection (Black and White 2 Wire) Systems (Top and Bottom)

Features
- FloTech brand overfill system kits provide everything needed to install a new overfill system on your tank. One to eight compartment kits are available from our inventory. Systems include: (1) FT208 monitor, (1) FT151 overfill sensor and (1) FT152 retain sensor per compartment, FT404-150 cable and FT403 strain reliefs (cable glands)
- Other probe lengths are available

Part #	Description
FT2811	checkmate, 1 compartment system (overfill and retain)-7" probes
FT2812	checkmate, 2 compartment system (overfill and retain)-7" probes
FT2813	checkmate, 3 compartment system (overfill and retain)-7" probes
FT2814	checkmate, 4 compartment system (overfill and retain)-7" probes
FT2815	checkmate, 5 compartment system (overfill and retain)-7" probes
FT2816	checkmate, 6 compartment system (overfill and retain)-7" probes
FT2817	checkmate, 7 compartment system (overfill and retain)-7" probes
FT2818	checkmate, 8 compartment system (overfill and retain)-7" probes
FT2811-12	checkmate, 1 compartment system (overfill and retain)-12" probes
FT2812-12	checkmate, 2 compartment system (overfill and retain)-12" probes
FT2813-12	checkmate, 3 compartment system (overfill and retain)-12" probes
FT2814-12	checkmate, 4 compartment system (overfill and retain)-12" probes
FT2815-12	checkmate, 5 compartment system (overfill and retain)-12" probes
FT2816-12	checkmate, 6 compartment system (overfill and retain)-12" probes
FT2817-12	checkmate, 7 compartment system (overfill and retain)-12" probes
FT2818-12	checkmate, 8 compartment system (overfill and retain)-12" probes

NOTE: Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

FloTech® Checkmate Overfill/Retain (Black and White 2 Wire) System Replacement Parts

Checkmate Onboard Monitors

Features
- Easy to follow programming guide for up to eight compartments top only or top and bottom service with the same monitor
- Monitor can be programmed up to 100,000 times without sending it back to the factory
- Stainless steel terminal blocks resist rusting of contacts
- Stainless steel hardware is used on all products
- Powder coated color matched components for exceptional appearance
- Auxiliary input for Hobbs type switches
- Power control relay output
- Drop-in compatibility with competitors products, see compatibility chart on pages 76-79
- Wide input power 12-24 VDC
- Monitors include advanced diagnostic capabilities as well as signal translation abilities for all socket types (optic, thermistor or float). The system offers true load at any rack compatibility

Available integrated options
- Optional FloTech feature (patent pending) is only available on checkmate model onboard monitors. Data Link™ gives maintenance staff the ability to download the performance and diagnostic history of the overfill system. Plug the FloTech hand-held diagnostic terminal, into the checkmate monitor and download to your PC. A time and date stamped report is generated, showing the history of every wetted or failed sensor, rack connection, auxiliary input and load/unload data

Part #	Description
FT208	checkmate programable monitor and housing
FT207	checkmate programable replacement monitor only (no housing)

FT208

NOTE: See page 168 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Overfill Detection Sensors

Features
- The FloTech thermo-optic 2 wire probe is electronically and mechanically compatible for drop-in replacement of other commonly used 2-wire probes with black and white wires. Providing the fast response and reliability of optic technology in a thermistor application
- Custom probe lengths available upon request
- The sensor housing contains a black and white 2 wire probe in a cast aluminum housing. The sensor housing has a 2" NPT mounting thread, heavy duty stainless steel hardware, and FKM probe seal. Install into either a 2" NPT threaded port or 2-3/8" diameter tank opening using the gasket and locking nut provided
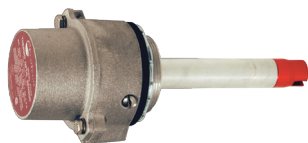
Part #	Description	Replacement Probes
FT151	housing with 7" black and white 2 wire overfill detection probe	FT150
FT151-12	housing with 12" black and white 2 wire overfill detection probe	FT150-12
FT151-18	housing with 18" black and white 2 wire overfill detection probe	FT150-18

FT151

Retain Sensors

Features
- Retain sensors inform the loading terminal if the tank compartments are empty, or if there is product left in the tank prior to re-loading the tank (product has been retained)
- Sensor is shipped with a 1/2" NPT weld-on aluminum half coupling for mounting. The main sensor portion is stainless steel to prevent galling in the tank. The wiring box is nylon to prevent corrosion and is removable to facilitate installation. Our three port housing design is compatible with previous in-line and parallel dual port housing

Part #	Description
FT152	housing with black and white 2 wire retain probe

FT152

NOTE: See page 165 for repair kits and replacement parts

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® ROM Type Overfill Detection (Red and Black 2 Wire) Systems (Top Detection Only)

Features
- FloTech brand overfill system kits provide everything needed to install a new overfill system on your tank. One to six compartment kits are available from our inventory. Systems include: 1 FT204P monitor, 1 FT202 overfill sensor per compartment, FT401 (100') cable and FT402 (20 pieces) strain reliefs (cable glands). Sockets, inline fuse, and instruction booklet sold separately
- Other probe lengths are available

Part #	Description
FT2101	ROM type, 1 compartment system (top only)-7" probes
FT2102	ROM type, 2 compartment system (top only)-7" probes
FT2103	ROM type, 3 compartment system (top only)-7" probes
FT2104	ROM type, 4 compartment system (top only)-7" probes
FT2105	ROM type, 5 compartment system (top only)-7" probes
FT2106	ROM type, 6 compartment system (top only)-7" probes
FT2101-12	ROM type, 1 compartment system (top only)-12" probes
FT2102-12	ROM type, 2 compartment system (top only)-12" probes
FT2103-12	ROM type, 3 compartment system (top only)-12" probes
FT2104-12	ROM type, 4 compartment system (top only)-12" probes
FT2105-12	ROM type, 5 compartment system (top only)-12" probes
FT2106-12	ROM type, 6 compartment system (top only)-12" probes

FloTech ROM Type Overfill/Retain Detection (Red and Black 2 Wire) Systems (Top and Bottom)

Features
- FloTech brand overfill system kits provide everything needed to install a new overfill system on your tank. One to six compartment kits are available from our inventory. Systems include: 1 FT204P monitor, 1 FT202 overfill sensor, and 1 FT206 retain sensor per compartment, FT401 (100') cable and FT403 (30 pieces) strain reliefs (cable glands). Sockets, inline fuse, and instruction booklet sold separately
- Other probe lengths are available

Part #	Description
FT2001	ROM type, 1 compartment system (overfill and retain)-7" probes
FT2002	ROM type, 2 compartment system (overfill and retain)-7" probes
FT2003	ROM type, 3 compartment system (overfill and retain)-7" probes
FT2004	ROM type, 4 compartment system (overfill and retain)-7" probes
FT2005	ROM type, 5 compartment system (overfill and retain)-7" probes
FT2006	ROM type, 6 compartment system (overfill and retain)-7" probes
FT2001-12	ROM type, 1 compartment system (overfill and retain)-12" probes
FT2002-12	ROM type, 2 compartment system (overfill and retain)-12" probes
FT2003-12	ROM type, 3 compartment system (overfill and retain)-12" probes
FT2004-12	ROM type, 4 compartment system (overfill and retain)-12" probes
FT2005-12	ROM type, 5 compartment system (overfill and retain)-12" probes
FT2006-12	ROM type, 6 compartment system (overfill and retain)-12" probes

FloTech® ROM Type Overfill/Retain (Red and Black 2 Wire) System Replacement Parts

ROM Type Onboard Monitors

Features
- Easy to follow programming guide for up to six compartments top only or top and bottom service with the same monitor
- Monitor can be programmed up to 100,000 times without sending it back to the factory
- As the monitor is programmed for the number of compartments, terminators are not required
- Stainless steel terminal blocks resist rusting of contacts
- Stainless steel hardware is used on all products
- Powder coated color matched components for exceptional appearance
- Auxiliary input
- Wide input power 12-24 VDC
- Drop-in compatibility with competitors products, see compatibility chart on pages 76-79
- Monitors include advanced diagnostic capabilities as well as signal translation abilities for all socket types (optic, thermistor or float). The system offers true load at any rack compatibility
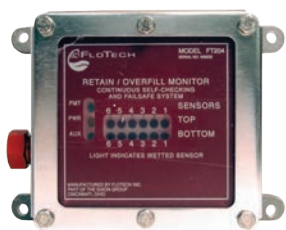
FT204P

Part #	Description
FT204P	FloTech ROM type programmable monitor and housing
FT203P	FloTech ROM type programmable replacement monitor only (no housing)
FT203P-SPEC	FloTech ROM type programmable replacement monitor with 8-hole cover (no housing or frame)

NOTE: See page 167 for repair kits and replacement parts

Overfill Detection Sensors

Features
- Overfill detection sensors are intended to detect a pending overfill condition inside the fuel tank compartment. When they are wetted (come in contact with the fuel) they signal the fuel loading rack to close the fuel supply control valve, to prevent a spill of product
- The FloTech optic 2 wire probe is electronically and mechanically compatible for drop-in replacement of other commonly used 2-wire probes with red and black wires, such as the Civacon ROM system
- All FloTech brand probes are trouble-free probes they come with a unique dual elastomer seal for the glass optic prisms. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and temperature changes, along with resistance to petroleum chemical attack. The replacement probes have a smooth tapered tip design for easy replacement installation into the sensor housing without gasket damage
- Custom probe lengths available upon request
- The sensor housing contains a red and black 2 wire probe, in a cast aluminum housing. The sensor housing has a 2" NPT mounting thread, heavy duty stainless steel hardware, and FKM probe seal. Install into either a 2" NPT threaded port or 2-3/8" diameter tank opening using the gasket and locking nut provided. All screws and rings are heavy duty stainless steel for easy assembly and long life

FT202

Part #	Description	Replacement Probes
FT202	housing with 7" red and black 2 wire overfill detection probe	FT201
FT202-12	housing with 12" red and black 2 wire overfill detection probe	FT201-12
FT202-18	housing with 18" red and black 2 wire overfill detection probe	FT201-18

NOTE: See page 164 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

FloTech® ROM Type Overfill/Retain (Red and Black 2 Wire) System Replacement Parts

Retain Sensors

Features

- The FT206 is a retain detection sensor shipped with a 1/2" NPT weld-on aluminum half coupling for mounting. The main portion is stainless steel to prevent galling in the tank. The wiring box is plastic to prevent corrosion and is removable to facilitate installation. The side ports come out of the same side (like the overfill sensors) to make wiring easier. The FT206 is compatible with Civacon model 1000 and the Civacon ROM System. Our three port housing design is compatible with previous inline and parallel dual port housings
- Trouble free probes: 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

Part #	Description
FT206	housing with red and black 2 wire retain probe

NOTE: See page 165 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® FT151RL ROM Link™
Replacement Parts

Application
- The FT151RL is designed to replace the complete ROM Link sensor assembly. Simply remove the Civacon sensor housing from the manhole lid and install the FloTech FT151RL or FT151RL-12. Plug the FT151RL into the wiring harness using our connector adapter and the change out is complete

Features
- Trouble free probes: FloTech brand probes incorporate a double elastomer design which seals and secures the sensitive glass optic prism tip. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and petroleum chemical attack
- Unlike our competitors, FloTech probes do not use internal coil cord connectors which consistently fail in moisture. All FloTech Plug-n-Play probes are prewired to our harness connector, which has proven itself in moisture
- FloTech sensor housings have a sturdy bolt on cap to better seal out water
- The FT151RL includes an adapter connector to permit interchange between Civacon's ROM Link system and the FloTech FT150RL sensor
- Custom lengths available upon request
- The FT151RL sensor housing contains a Plug-n-Play probe. The sensor housing has a 2" NPT mounting thread, heavy duty stainless steel hardware, and FKM probe seal. Install into either a 2" NPT threaded port or a 2-3/8" diameter tank opening using the gasket and locking nut provided. All screws and rings are heavy duty stainless steel for easy assembly and long life

Materials
- Aluminum housing with stainless steel hardware

Specification
- Drop in replacement for the Civacon ROM Link sensors 1554-007 and 1554-0012

FT151RL   FT152RL

Part #	Description
FT151RL	housing with 7" Plug-n-Play overfill detection probe, with Plug-n-Play harness and ROM link jumper cable connector
FT151RL-12	housing with 12" Plug-n-Play overfill detection probe, with Plug-n-Play harness and ROM link jumper cable connector
FT152RL	retain sensor with Plug-n-Play harness and ROM link jumper cable

Part #	Replacement Probes
FT150P	replacement 7" Plug-n-Play probe for FT151RL only
FT150P-12	replacement 12" Plug-n-Play probe for FT151RL-12 only
10688-KIT	female x female adapter
10605PL	Plug-n-Play harness to monitor connector clip
10688-002	male x male adapter

NOTE: Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® API Optic Overfill Detection (5 Wire) Systems

Application
- The FloTech API Optic 5 wire system is perfectly suited for both new and existing tank installations. The components have a long list of features which make them more reliable than competitor products; the result is years of trouble free service.The FloTech API Optic 5 wire system is a conventionally wired system, which requires wiring connections to be made using crimp connectors. If a simple plug together system is desired, please see our Checkmate Plug-n-Play system as shown on pages 47-51

Features
- See the features and benefits of each of the system components
- Biofuel compatible up to E100 (100% ethanol) and B100 (100% biodiesel)

Materials
- Dependent upon the component, see each product section for materials

FloTech API Optic Overfill Detection (5 Wire) Systems
(Top Detection Only)

Features
- FloTech brand overfill system kits provide everything needed to install a new overfill system on your tank. One to six compartment kits are available from our inventory. System includes: 1 FT103 monitor, 1 FT101 overfill sensor per compartment, FT400 cable, and FT402 strain reliefs (cable glands)
- Other probe lengths are available

Part #	Description
FT1001	API optic 5 wire, 1 compartment overfill detection system (top only)-7" probes
FT1002	API optic 5 wire, 2 compartment overfill detection system (top only)-7" probes
FT1003	API optic 5 wire, 3 compartment overfill detection system (top only)-7" probes
FT1004	API optic 5 wire, 4 compartment overfill detection system (top only)-7" probes
FT1005	API optic 5 wire, 5 compartment overfill detection system (top only)-7" probes
FT1006	API optic 5 wire, 6 compartment overfill detection system (top only)-7" probes
FT1001-12	API optic 5 wire, 1 compartment overfill detection system (top only)-12" probes
FT1002-12	API optic 5 wire, 2 compartment overfill detection system (top only)-12" probes
FT1003-12	API optic 5 wire, 3 compartment overfill detection system (top only)-12" probes
FT1004-12	API optic 5 wire, 4 compartment overfill detection system (top only)-12" probes
FT1005-12	API optic 5 wire, 5 compartment overfill detection system (top only)-12" probes
FT1006-12	API optic 5 wire, 6 compartment overfill detection system (top only)-12" probes

Straight Systems Without Monitor - Wire Directly to Socket

Part #	Description
FT901	API optic 5 wire straight, 1 compartment overfill detection system (top only)-7" probes
FT902	API optic 5 wire straight, 2 compartment overfill detection system (top only)-7" probes
FT903	API optic 5 wire straight, 3 compartment overfill detection system (top only)-7" probes
FT904	API optic 5 wire straight, 4 compartment overfill detection system (top only)-7" probes
FT905	API optic 5 wire straight, 5 compartment overfill detection system (top only)-7" probes

NOTE: Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® API Optic Overfill Detection (5 Wire) Systems
Replacement Parts
Onboard Monitors

FT103

Features
- Stainless steel terminal blocks resist rusting of contacts
- Stainless steel hardware is used on all products
- Powder coated color matched components for exceptional appearance
- Drop-in compatibility with competitors products, see compatibility chart on pages 76-79
- Signal translation ability, allows the connection all socket types (optic, thermistor or float) the system offers true load at any rack compatibility

Part #	Description
FT102	FloTech API optic 5 wire replacement monitor only (no housing)
FT103	FloTech API optic 5 wire monitor and housing

NOTE: See page 166 for repair kits and replacement parts

Overfill Detection Sensors

FT101

Features
- The FloTech API optic 5 wire probe is electronically and mechanically compatible for drop-in replacement of other commonly used 5 wire probes
- Custom probe lengths available upon request
- The sensor housing contains a 5 wire probe, in a cast aluminum housing. The sensor housing has a 2" NPT mounting thread, heavy duty stainless steel hardware, and FKM probe seal. Install into either a 2" NPT threaded port or 2-3/8" diameter tank opening using the gasket and locking nut provided

Part #	Description	Replacement Probes
FT101	housing with 7" - 5 wire overfill detection probe	FT100
FT101-12	housing with 12" - 5 wire overfill detection probe	FT100-12
FT101-18	housing with 18" - 5 wire overfill detection probe	FT100-18

NOTE: See page 164 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

Stainless Steel Probe and Sensor Housings

Black and White 2 Wire

Features
- The FloTech® stainless steel probes and sensor housings are designed to be used with chemicals. All wetted services are 316 stainless steel or PTFE. These probes are designed to thread onto a DOT 407 tank 3" clean out nipple
- All FloTech brand probes are trouble free probes, they come with a unique dual elastomer seal for the glass optic prisms. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and temperature changes, along with resistance to petroleum chemical attack. The replacement probes have a smooth tapered tip design for easy replacement installation into the sensor housing without gasket damage
- Custom probe lengths can be available by using 3/4" pipe nipples upon request

Specification
- Maximum working pressure **900 PSI** at **70°F (21°C)**

FT150S

Part #	Description
FT150S	7" 316 stainless steel, black and white 2 wire, overfill detection probe only (no housing)
FT191S	stainless steel probe housing, 3" female NPS thread (housing only, order probe separately)
FT150SP	7" 316 stainless steel, black and white 2 wire probe, plug and play connection

NOTE: See page 165 for repair kits and replacement parts

5 Wire

Features
- The FloTech stainless steel probes and sensor housings are designed to be used with chemicals. All wetted services are 316 stainless steel or PTFE. These probes are designed to thread onto a DOT 407 tank 3" clean out nipple. Sensor length can be adjusted using 3/4" NPT pipe nipples
- All FloTech brand probes are trouble free probes: they come with a unique dual elastomer seal for the glass optic prisms. The elastomer seals are flexible allowing thermal expansion and resistance to steam cleaning and temperature changes, along with resistance to petroleum chemical attack. The replacement probes have a smooth tapered tip design for easy replacement installation into the sensor housing without gasket damage
- Custom probe lengths available upon request

Specification
- Maximum working pressure **900 PSI** at **70°F (21°C)**

FT191S and FT100S

Part #	Description
FT100S	7" 316 stainless steel 5 wire overfill detection probe only (no housing)
FT191S	stainless steel probe housing, 3" female NPS thread (housing only, order probe separately)

NOTE: See page 165 for repair kits and replacement parts

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

Single Sockets with Aluminum Hardcoat J-slot

| FT300 | FT300GW | FT301 | FT302 |

Features
- Single face plate sockets have hard coated aluminum alloy J-slot wear rings, these ensure a long service life. Single sockets with "guaranteed for life" stainless steel wear rings are also available
- Stainless steel hardware and contact pins prevent corrosion
- Sockets and caps are color coded with industry standardized colors which allows for easy identification of socket type (optic sockets are blue, thermistor sockets are green, and float sockets are red, colored caps are included for optic and thermistor models only)

Part #	Description
FT300	optic socket API/WOGA, 6 pin and 3 J-slot (US)
FT300GW	optic socket API/WOGA, 6 pin and 3 J-slot with ground wire
FT300GT	API optic socket with cap, ground wire and TIM
FT307	optic socket, 6 pin and 4 J-slot (Canada)
FT306	optic socket, J560 pin type
FT301	thermistor socket, API, 8 pin and 4 J-slot (US)
FT301GW	thermistor socket, API, 8 pin and 4 J-slot with ground wire
FT301GT	API compatible thermistor socket with cap, ground wire and TIM
FT304	thermistor socket, 10 pin and 4 J-slot (Canada/Europe)
FT305	thermistor socket, J560 pin type
FT302	float, API, J560 pin type socket

Replacement Face Plates and Dust Caps

Part #	Description
FT310	API optic face plate assembly, 6 pin, 3 J-slot (US) with dust cap
FT317	optic pattern face plate assembly, 6 pin, 4 J-slot (Canada) with dust cap
FT316	optic replacement face plate, J560 type with dust cap
FT311	API thermistor face plate assembly, 8 pin, 4 J-slot (US) with dust cap
FT314	thermistor face plate assembly, 10 pin 4 J-slot (Canada/Europe) with dust cap
FT315	thermistor replacement face plate, J560 type with dust cap
FT320	replacement blue optic dust cap
FT321	replacement green thermistor dust cap
FT322	replacement black dust cap

NOTE: See pages 170-171 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

Single Sockets with GFL (Guaranteed for Life)
Stainless Steel J-slot Wear Rings

FT300SSGW

FT301SS

Features
- Available on any configuration J-slot socket
- Tougher and more corrosion resistant than any other on the market
- Guaranteed for life against wear
- US patent 6,824,423

Part #	Description
FT300SSGW	optic socket API/WOGA, 6 pin and 3 J-slot, GFL stainless J-slot wear ring with ground wire
FT307SS	optic socket, 6 pin and 4 J-slot, GFL stainless J-slot wear ring (Canada)
FT301SS	thermistor socket, API, 8 pin and 4 J-slot, GFL stainless J-slot wear ring (US)
FT300SS	optic socket API/WOGA, 6 pin and 3 J-slot, GFL stainless J-slot wear ring (US)
FT301SSGW	thermistor socket, API, 8 pin and 4 J-slot, GFL stainless J-slot wear ring with ground wire
FT304SS	thermistor socket, 10 pin and 4 J-slot, GFL stainless J-slot wear ring (Canada/Europe)

Replacement Face Plates and Dust Caps

Part #	Description
FT310SS	API optic face plate assembly, 6 pin, 3 J-slot, GFL stainless J-slot wear ring (US) with dust cap
FT317SS	optic pattern face plate assembly, 6 pin, 4 J-slot, GFL stainless J-slot wear ring (Canada) with dust cap
FT311SS	API thermistor face plate assembly, 8 pin, 4 J-slot, GFL stainless J-slot wear ring (US) with dust cap
FT314SS	thermistor face plate assembly 10 pin, 4 J-slot, GFL stainless J-slot wear ring (Canada/Europe) with dust cap
FT320	replacement blue optic dust cap
FT321	replacement green thermistor dust cap

NOTE: See pages 170-171 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

EZ-Cept Double Sockets

FT390

Features
- Stainless steel hardware and contact pins prevent corrosion
- Sockets are color coded with industry standardized colors allowing for easy identification of socket type (optic sockets are blue, thermistor sockets are green, and float sockets are red, colored caps are included for optic and thermistor models only)
- Guaranteed for Life J-slot: Our unique stainless steel alloy J-slot ring will probably outlast your trailer
- Prewired ready for tank installation, no more long hours wiring and troubleshooting your socket connections. Simply bolt to the trailer and connect to the terminal block in the on board monitor
- Internal ground wire and ID chip ready: Both internal ground wire and ID chip are normally mounted inside the EZ-Cept housing to protect from the corrosive elements. Or if desired, the bolt can be mounted to the trailer frame and the wire connected to the EZ-Cept internal wire terminal
- Corrosion resistant hard powder coated housing, stainless steel hardware and contacts and our unique keep dry enclosure design keeps your trailer in service and corrosion at bay
- The EZ-Cept has so many innovative features it is covered by US patent 6,824,423

Part #	Description
FT390	optic 5 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings (US)
FT390V	optic 5 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, vertical mount, GFL stainless J-slot wear rings (US)
FT390G	optic 5 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings, internal ground wire (US)
FT390GT	optic 5 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings, internal ground wire Trailer Identification Module chip (US)
FT390T	optic 5 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings, Trailer Identification Module chip (US)
FT390-20	optic 5 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings, 20' of cable (US)
FT390G-20	optic 5 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings, internal ground wire, 20' of cable (US)
FT391	optic 5 pin, 4 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings (Canada)
FT391V	optic 5 pin, 4 J-slot, and thermistor 10 pin, 4 J-slot, vertical mount, GFL stainless J-slot wear rings (Canada)

NOTE: See pages 172-173 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

EZ-Cept Triple Sockets
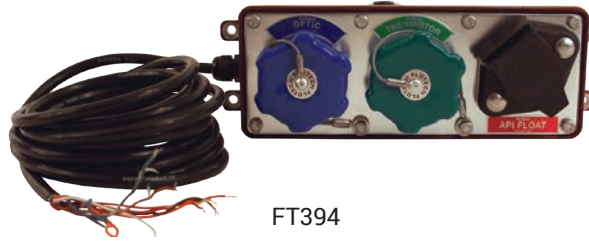
FT394

Features
- Stainless steel hardware and contact pins prevent corrosion
- Sockets are color coded with industry standardized colors allowing for easy identification of socket type (optic sockets are blue, thermistor sockets are green, and float sockets are red, colored caps are included for optic and thermistor models only)
- Unique stainless steel alloy J-slot ring is guaranteed for life
- Pre-wired ready for tank installation, simply bolt to the trailer and connect to the terminal block in the on board monitor
- Internal ground wire and ID chip ready: Both internal ground wire and ID chip are normally mounted inside the EZ-Cept housing to protect from the corrosive elements. Can also be mounted to the trailer frame and the wire connected to the EZ-Cept internal wire terminal
- Corrosion resistant hard powder coated housing, stainless steel hardware and contacts and our unique keep dry enclosure design keeps your trailer in service and corrosion at bay
- The EZ-Cept has so many innovative features it is covered by US patent 6,824,423

Part #	Description
FT393	optic 5 pin, 3 J-slot, thermistor 10 pin, 4 J-slot, and float J560, horizontal mount, GFL stainless J-slot wear rings (US)
FT394	optic 5 pin, 3 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, horizontal mount, GFL stainless J-slot wear rings (US)
FT394G	optic 5 pin, 3 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, horizontal mount, internal ground wire, GFL stainless J-slot wear rings (US)
FT394V-G	optic 5 pin, 3 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, vertical mount, internal ground wire, GFL stainless J-slot wear rings (US)
FT395	optic 5 pin, 4 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, horizontal mount, GFL stainless J-slot wear rings (Canada)
FT395G	optic 5 pin, 4 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, horizontal mount, internal ground wire, GFL stainless J-slot wear rings (Canada)
FT395V	optic 5 pin, 4 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, vertical mount, internal ground wire, GFL stainless J-slot wear rings (Canada)
FT395VG	optic 5 pin, 4 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, vertical mount, internal ground wire, GFL stainless J-slot wear rings (Canada)

NOTE: See pages 174-175 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Socket Cleaner

Application
- Used to clean dirty or corroded overfill socket contact blocks

Features
- Improves electrical connection and reduces drop out of permit signal
- Simple handheld contact cleaner
- 3M Scotch-Brite™ pad

Part #	Description
FT406	socket cleaner

Multi-Wrench

Application
- Used for threading, and unthreading lock nuts

Features
- Hard coated for corrosion resistance
- Laser etched

Part #	Description
40530AL	multi-sided wrench for installing FT9000/VR6030SQ

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

Grounding Ball and Bolt

| FT450 | FT451 | FT452 | FT452-002 |

Part #	Description
FT450	ground verification bolt
FT451	ground verification ball
FT452	ground wire for single sockets
FT452-002	ground wire for dual sockets

NOTE: See page 176 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

FloTech® Checkmate Overfill/Retain (Black and White 2 Wire)
System Sensor Dummy

Part #	Description
FT155	thermistor sensor dummy (each dummy adds up to 5 compartments)
11030PS	hobb switch, vent/brake interlock

Biofuel compatible

FloTech® Trailer Identification Modules

Application
- Designed as a drop in replacement for the Trailer Identification Module, providing you with longer life and reduced costs

Part #	Description
FT470	Trailer Identification Module

Cables and Strain Reliefs

Features
- FloTech cable is specially produced with tin plated wire, which when connected correctly using crimp connections, will provide years of trouble-free service

FT400   FT402

Part #	Description	System Type
FT400	100' of 5 conductor cable, 18 AWG	
FT400-500	500' of 5 conductor cable, 18 AWG	5 wire API optic
FT400-1000	1000' of 5 conductor cable, 18 AWG	
FT401	100' of 7 conductor cable, 20 AWG	
FT401-150	150' of 7 conductor cable, 20 AWG	red and black 2 wire ROM type
FT401-1000	1000' of 7 conductor cable, 20 AWG	
FT404	100' of 11 conductor cable, 20 AWG	
FT404-150	150' of 11 conductor cable, 20 AWG	black and white 2 wire checkmate/thermistor type
FT404-1000	1000' of 11 conductor cable, 20 AWG	

Cable Strain Reliefs (Glands)

Part #	Description
FT402	20 piece pack of strain relief fittings, 1/2" NPT
FT403	30 piece pack of strain relief fittings, 1/2" NPT
FT405-500	500 piece pack of strain relief fittings, 1/2" NPT

Cable Tools and Supplies

Part #	Description
FT9023	professional cable stripping tool
FT9024	professional cable crimping tool
FT9021	100 piece pack of crimp connectors
FT9022	2.8 oz tube of GE RTV103 silcone for sealing crimped wired connections
FT9025	terminal pins, 14-16 AWG, 100 pieces

NOTE: Due to the very low current used in overfill systems it's extremely important to use the correct type of cable. The use of other types of cabling often leads to failed overfill systems due mostly to corroded connections

Biofuel compatible

Optic System Testers

Application
- Used to trouble shoot overfill system circuits

Features
- Will work with any optic overfill system
- The FT520 optic test kit includes a tester and test lead set to test 5 wire optic pulse, 5 wire optic probes, 2 wire optic probes, Plug-n-Play optic probes as well as onboard monitor and socket outputs. It uses the same permissive signal verification as an optic rack monitor. Optional FT521, FT522, FT523 optic test plugs are available for an entire trailer Go, No/Go test, 2 9-volt batteries (included)

Materials
- Durable plastic case, heavy duty cable connectors and test leads

FT520

FT520WOGA

Part #	Description
FT520	optic system tester, 5 piece set of test leads, batteries and instructions
FT520CASE	optional storage case for FT520
FT520WOGA	optic system tester, with FT521 API optic 6 pin and 3 J-slot plug, batteries and instructions
FT520WOGACASE	optional storage case for FT520WOGA
FT521	API optic test plug, 6 pin and 3 J-slot
FT522	optic test plug, 6 pins and 2 or 4 J-slot (plug fits both 2 and 4 J-slot sockets)
FT523	optic test plug J560 type
10622	Plug-n-Play test lead set
FT9037	replacement test lead set for FT520

Trailer Identification Module Chip Readers

Application
- Designed to read and test Trailer Identification Modules mounted inside API compatible overfill sockets

Features
- Designed to read Trailer Identification Module chips
- Solid aluminum construction
- Backlit LCD display
- Interchangeable optic or thermistor J-slot screws
- Provides long battery life

Part #	Description
FT530	Trailer Identification Module chip reader

Biofuel compatible

FloTech® Truck Testers

Application
- Allows complete testing of ground bolt grounding systems. Tests ground bolt in forward and reverse just like the rack monitor

Features
- Reads Trailer Identification Modules and displays the serial number on the screen
- Automatic mode allows all four tests, or any combination, to run for a complete test of the trailer
- LCD screen displays the final test results and a pass/fail indication for easy rapid testing of the overfill system
- One man "Wet Test" feature FT555 signals an audible alarm sounding a number of beeps that match the wetted sensor
- Microprocessor controlled with designed in flexibility to expand into a number of applications
- Requires two D cell flashlight batteries that can be changed through a side battery access door

Part #	Description
FT555	truck tester
FT555PA	truck tester with handle and test leads (US)
FT555PW	truck tester with handle and test leads (EU)
FT555CNVT	convert FT555 to FT555PA

FT555

FT555PA

FloTech FT590-Series Rack Monitor Testers

Application
- Simulates single component overfill system. Used to test rack monitor operation

Part #	Description
FT590TG	2 wire themistor rack tester with grounding bolt
FT590TGT	2 wire themistor rack tester thermistor TIM and grounding bolt
FT590OG	5 wire optic rack tester with ground bolt
FT590OGT	5 wire optic rack tester with ground bolt and TIM

FT590TG

Biofuel compatible

API Compatible Loading Rack Cords

Application
- API loading rack cords are used to connect the loading rack monitor to the socket on the fuel tanker

Features
- FT600 and FT620 are compatible with API thermistor and optic configurations
- Cords available in coiled or straight lengths
- Cord features a heavy highly visible safety orange jacket to meet trip hazard requirements
- Cord is bonded mechanically and has superior abrasion and oil resistance
- Plug body is color coded optic blue or thermistor green
- Button contacts are made from 316 stainless steel to prevent corrosion or galling
- Cord sets are interchangeable with Civacon

Materials
- Reinforced nylon plugs with stainless steel contact pins and hardware. Heavy duty and highly visible safety orange cord

API Optic Cord Assemblies

FT620

| Part #	Description
FT620	blue plug with 6 contact pins and 3 J-slot, on a 30' coiled blue cable
FT620S	blue plug with 6 contact pins and 3 J-slot, on a 20' straight blue cable
FT620P	blue plug with 6 contact pins and 3 J-slot on a 30' blue coiled cord and 7 pin connector aluminum J560 plug
FT620SP	API optic plug, aluminum J560 plug with 30' straight cable
FT620X620	optic dual plug cord
FT621	replacement blue plug assembly with 6 contact pins and 3 J-slot
FT622	replacement 30' blue coiled cord, optic 6 conductor
FT623	optic plug storage hanger
FT624	replacement 20' blue straight cord, optic 6 conductor

NOTE: See pages 177 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

API Thermistor Cord Assemblies

FT600

Part #	Description
FT600	green plug with 8 contact pins and 4 J-slot, on a 30' coiled orange cable
FT600P	green plug with 8 contact pins and 4 J-slot, on a 30' orange coiled cord and 13 pin connector nylon J560 plug
FT600S	green plug with 8 contact pins and 4 J-slot, on a 20' straight orange cable
FT600C	green plug with 10 contact pins and 4 J-slot, on a 30' coiled orange cable
FT600CP	green plug with 10 contact pins and 4 J-slot, on a 30' coiled orange cord and 13 pin connector nylon
FT600SC	green plug with 10 contact pins and 4 J-slot, on a 20' straight orange cable
FT601	replacement green plug assembly with 8 contact pins and 4 J-slot
FT601-10	replacement green plug assembly with 10 contact pins and 4 J-slot
FT602	replacement 30' orange coiled cord, thermistor 10 conductor
FT603	thermistor plug storage hanger
FT604	replacement 20' orange straight cord, thermistor 10 conductor
FT606	thermistor 30' coiled replacement cord 8 pin
FT607	thermistor 20' straight replacement cord 8 pin
FT680CNO	deadman switch assembly with coiled cord

NOTE: See page 178 for repair kits and replacement parts
Please refer to chart on pages 76-79 for cross references to other manufacturer part numbers

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® Junction Boxes

Application
- FT7500-Series junction boxes are designed to provide a convenient, safe, and protected point of service for rack cord accessories. When installed correctly, the junction box will protect rack cords from excessive wear and tear, and cord connections from water and corrosion while in harsh environments

Features
- Water-tight construction helps prevent condensation and moisture from causing corrosion on the with rack connections
- Twelve position terminal block for quick replacement of various cord types including optic, thermistor, ground, and deadman cables
- Large internal volume allows ample room for wiring and easy installation
- Mesh cord grip reduces cable strain and prevent cable pull-out
- Integrated cord hook holds the cable while not in use

Material
- Powder coated weather-resistant aluminum

FT7501

FT7500

FT7502

Part #	Description
FT7500	single cord junction box
FT7501	dual cord junction box
FT7502	junction box with yellow 13 pin socket

Junction Box and Cord Assembly Accessories

Part #	Junction Box	Rack Cord	Termination	Length	Cord Color	Cord Type	Conductors	API Plug Color	J-Slots
FT7600	FT7500	FT600	flying leads	30'	orange	coiled	8	green	4
FT7600C	FT7500	FT600C	flying leads	30'		coiled	10		4
FT7600CP	FT7502	FT600CP	yellow 13 pin plug	30'		coiled	10		4
FT7600P	FT7502	FT600P	yellow 13 pin plug	30'		coiled	8		4
FT7600S	FT7500	FT600S	flying leads	20'		straight	8		4
FT7600SC	FT7500	FT600SC	flying leads	20'		straight	10		4
FT7600SP	FT7502	FT600SP	yellow 13 pin plug	20'		straight	8		4
FT7605C	FT7500	FT605C	flying leads	30'		coiled	6		4
FT7620	FT7500	FT620	flying leads	30'	blue	coiled	6	blue	3
FT7620P	FT7502	FT620P	metal J560	30'		coiled	6		3
FT7620S	FT7500	FT620S	flying leads	20'		straight	6		3
FT7620SP	FT7502	FT620SP	metal J560	20'		straight	6		3
FT7630	FT7500	FT630	flying leads	30'		coiled	10	black	4
FT7630D	FT7503	FT630D	D connector	30'		coiled	10		4
FT7640-3	FT7500	FT640-3	flying leads	30'		coiled	10		3
FT7640-4	FT7500	FT640-4	flying leads	30'		coiled	10		4

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Biofuel compatible

FloTech® FT7000-Series Rack Control Monitor
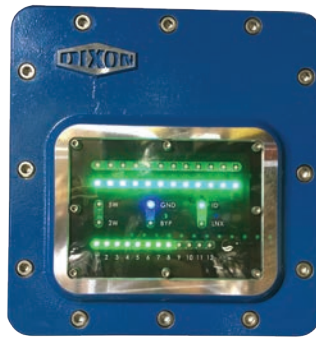
FT7000

Applications
- Overfill prevention, ground verification, trailer identification, data communication
- Automatic, continuous and self-checking micro based control
- Per NPFA rules, FT7000 FloTech RCM provides secondary overfill protection for loading of petroleum or chemical liquids into cargo or rail tanks. It is designed for hazardous locations using EXd explosion proof enclosure and intrinsically safe electronics. FT7000 RCM holds US and international safety approvals and certifications
- FloTech FT7000 RCM was designed for high reliability with redundant test circuits and output relays. Relay operation is monitored to determine proper operation. FT7000 RCM has the ability for redundant communication of monitor status independent of relay status. Permits can be verified via a digital communication path not dependent on relay status

Features
- FT7000 RCM provides robust communication of monitor overfill status, ground verification, trailer identification data and events via RS-485 and Modbus compliant. All function in one unit with ability to connect through existing TAS
- Overfill, ground, and trailer identification in one enclosure
- Auto switching between optic and thermistor (2 wire or 5 wire) sensors
- Compatible with all analog and digital sensors
- Monitor up to (8) 2 wire or (12) 5 wire sensors
- Various plug cord and junction box assemblies compatible with worldwide standards
- Visual display of all functions

Material
- Explosion proof IP54 weathertight aluminum powder coated housing

Approvals
Certified to the following standards:
- CSA C22.2 No. 61010-1-12, No. 30-M1986, No. 157-92, No. 60079-0:11, No. 60079-1:11, No. 60079-11:14
- UL 61010-1, UL 1203, UL 913, UL 60079-0, UL 60079-1, UL 60079-11
- IEC 60079-0, IEC 60079-1, IEC 60079-11, IEC 60529
- EN 60079-0, EN 60079-1, EN 60079-11

Compatible with

Sensors	Identification	Earthing/Ground Devices
• 5 wire optic sensors; 1-12 sensors • 2 wire black and white thermistor sensors; 1-8 sensors • 2 wire grey-grey universal thermistor sensors; 1-8 sensors • 2 wire analog thermistor sensors; 1-8 sensors • onboard monitors	• Trailer Identification Modules	• ground bolt/bolt/wire • ground loop/restive bond

NOTE: Not compatible with float type sensors, or 3 wire analog thermistor sensors

API Rack Cord Assemblies

FloTech® Part #	Civacon Part #	Scully Part #	API		Cord		J-Slot		Pin			Breakaway Plug	
			Thermistor	Optic	20' Straight	30' Coiled	3	4	6	8	10	Optic J560 Aluminum	Thermistor 13 Pin Plastic
FT600	7300SR-7300	21818	✓	---	---	✓	---	✓	---	✓	---	---	---
FT600C	7300CSR-7300	31090	✓	---	---	✓	---	✓	---	---	✓	---	---
FT600P	7320SR-7320	---	✓	---	---	✓	---	✓	---	✓	---	---	✓
FT600S	7300-STRAIGHT	20830	✓	---	✓	---	---	✓	---	✓	---	---	---
FT600SC	7300C-STRAIGHT	---	✓	---	✓	---	---	✓	---	---	✓	---	---
FT620	7100SR-7100	21831	---	✓	---	---	✓	---	✓	---	---	---	---
FT620P	7100-J560	---	---	✓	---	---	✓	---	✓	---	---	✓	---
FT620S	7100-STRAIGHT	21764	---	✓	✓	---	✓	---	✓	---	---	---	---

API Rack Cord Parts

FloTech Part #	Civacon Part #	Scully Part #	API		Cord		J-Slot		Pin		
			Thermistor	Optic	20' Straight	30' Coiled	3	4	6	8	10
FT601	7310SR-7310	---	✓	---	---	---	---	✓	---	✓	---
FT603	7350-7350	---	✓	---	---	---	---	✓	---	---	---
FT621	7110SR-7110	21766	---	✓	---	---	✓	---	✓	---	---
FT622	7220-7220	31099	---	✓	---	✓	✓	---	---	---	---
FT623	7150-7150	---	---	✓	---	---	✓	---	---	---	---

Reelcraft® Static Discharge Reels

Application
Used to ground equipment in hazardous atmospheres, such as fuel trucks or carts transferring flammable materials. When properly clamped to ground, the static discharge reel dissipates static electrical buildup, reduces chances of sparking and the potential for explosion

Features
- Supplied with a 3/32" O.D. steel aircraft cable
- DC resistance is approximately one ohm per 50' of steel cable

Part #	Description
G3050	single 7 x 7 stranded steel grounding wire

FloTech® Replacement Parts

Part #	Previous Part #	Description	Refer to Page
FT9000	---	sensor housing 2" NPT with parallel ports, complete with all hardware	164
FT9000P	---	Plug-n-Play sensor housing 2" NPT with parallel ports, complete with all hardware	162
FT9001	---	complete sensor housing gasket and O-ring kit	162, 164
FT9002	---	complete sensor housing gasket, O-ring and hardware kit	164
FT9003	---	replacement on-board monitor housing	166, 167
FT9004	---	replacement on-board monitor hardware kit	166, 167
10142	FT9005	replacement on-board bezel 5 wire (FT103)	166
10143	FT9006	replacement on-board bezel 2 wire (FT204)	167
10031	FT9007	replacement socket rear housing	157, 158, 169, 171
FT9008	---	replacement socket contact block with pins FT300 optic series	156, 171
FT9009	---	replacement socket contact block with pins FT301 thermistor series	156, 171
FT9010	---	replacement socket contact block with 10 pins FT304 thermistor series	171
FT9011	---	replacement sensor housing cap with screws and lock washers	162, 164
10128	---	replacement 2" NPT sensor housing lock nut	162, 164
FT9013	---	replacement socket faceplate 4 J-slot, no contact block or hardware	156, 171
FT9020	---	socket pin, screw and crimp lug	156, 171
FT9021	---	crimp connector 100 pieces per bag	66
FT9022	---	GE RTV 103 silicone rubber sealant 2.8 oz. tube	66
FT9023	---	stripping tool for cable jacket	66
FT9024	---	crimp tool for splice connections	66
FT9025	---	terminal pin, 14-16 AWG 100 pieces	66
250-G-BU	FT9026, 40090BN	sensor flat gasket for 2" NPT through punched hole in man lid	162, 164
10125	FT9027	sensor housing probe, FKM O-ring	162, 164
10119	FT9029	J560 contact block, 7 way	158, 161, 169, 175
FT9030	---	fuse holder with 1/4" amp fuse	166
FT9031	---	fuse holder with 1/2" amp fuse	167, 168
10038	FT9032	socket face plate gasket	157, 158, 169, 171

FloTech® Replacement Parts (continued)

Part #	Previous Part #	Description	Refer to Page
10183	FT9033	sensor housing, lower no hardware	164
FT9034	---	replacement socket face plate 3 J-slot, no contact block or hardware	156, 171
10459	FT9035	program module for FT204P and FT208	154, 155, 167, 168
FT9036	---	FT208 replacement bezel kit	155, 168
FT9037	---	FT520 test lead set	67
10357	FT9038	fuse 1/4" Amp - for FT103	166
10358	FT9039	fuse 1/2" Amp - for FT208 and FT204	155, 167, 168
FT9040	---	checkmate housing with lid	155, 168
10366HC-002	FT9041	replacement 3 J-slot, aluminum socket nose ring	157, 171
10366HC-001	FT9042	replacement 4 J-slot, aluminum socket nose ring	157, 171
10366SS-002	FT9043	replacement 3 J-slot, stainless socket nose ring	154, 157, 159, 161, 171, 173, 175
10366SS-001	FT9044	replacement 4 J-slot, stainless socket nose ring	154, 157, 159, 161, 171, 173, 175
10432NP	FT9045	replacement gasket for the FT208-Series checkmate lid	154, 155, 168
FT9046	---	bag of 10 replacement socket pins	156, 171
10126	FT9049	sensor cap O-ring	162, 164
10347	FT9050	threaded half coupling 1/2" for retain probe	163, 165
FT9051	---	replacement short contact block for FT390/393 optic, 6 pin	154, 159, 160
FT9052	---	replacement short contact block for FT390/393 thermistor, 10 pin	154, 159, 160
10131	FT9053	replacement gasket for bezel on monitors FT103/204P	166, 167
10470AL	FT9054	replacement lid frame for monitors FT103/204P	166, 167
FT9059	---	replacement face plate and bezel assembly for FT204P	167
10368SS	FT9061	replacement contact pin for FT390/393-Series socket	154, 157, 159, 161, 173, 175
FT9062	---	nose ring assembly, thermistor, 4 J-slot, 10 pin contact block, pin, and hardware for FT390 and FT393	154, 159, 160, 173
FT9063	---	nose ring assembly, optic, 3 J-slot, 6 pin contact block, pin, and hardware for FT390 and FT393	154, 159, 160, 173
FT9064	---	bezel for FT203P-SPEC	167
FT9065	---	bezel gasket for FT203P-SPEC	167
FT9068	---	replacement contact block attachment screws and washers (4 each)	154, 156, 159, 160, 163, 165, 171, 173, 175

Competitor Cross Reference Chart
Liquid Level Sensors

FloTech® Part #	Civacon Part #	Scully Part #	Description
FT100	5300N-7	09209	replacement probe, optic, 5-wire, 7" long
FT100-12	5300N-12	09214	replacement probe, optic, 5-wire, 12" long
FT100-18	5300N-18	09217	replacement probe, optic, 5-wire, 18" long
FT100S	1410RS-0060	---	replacement stainless steel probe, optic, 5-wire, 7" long
FT101	5310N-7	09208	sensor, optic, 5-wire, 2" NPT housing, 7" probe
FT101-12	5310N-12	09213	sensor, optic, 5-wire, 2" NPT housing with 12" probe
FT101-18	5300N-18	09216	sensor, optic, 5-wire, 2" NPT housing with 18" probe
FT150	5650-7	09409	replacement probe, thermo-optic, 7" long, 2-wire (black and white)
FT150-12	5650-12	09414	replacement probe, thermo-optic, 12" long, 2-wire (black and white)
FT150-18	5650-18	09417	replacement probe, thermo-optic, 18" long, 2-wire (black and white)
FT151	5610-7	09408	sensor, thermo-optic, 2" NPT housing, 7" probe, 2-wire (black and white)
FT151-12	5610-12	09413	sensor, thermo-optic, 2" NPT housing, 12" probe, 2-wire (black and white)
FT151-18	5610-18	09416	sensor, thermo-optic, 2" NPT housing, 18" probe, 2-wire (black and white)
FT151RL	1554-007	---	sensor, ROM Link™ replacement thermo-optic, 2" NPT housing, 7" probe, 2-wire (black and white)
FT151RL-12	1554-012	---	sensor, ROM Link replacement thermo-optic, 2" NPT housing, 12" probe, 2-wire (black and white)
FT152	---	08819	thermo optic retain sensor (black and white)
FT155	1920-5	08298, 08542	thermistor dummy, 5 compartment
FT201	5350-7	---	replacement ROM type, 7" top probe, 2-wire (red and black)
FT201-12	5350-12	---	replacement ROM type, 12" top probe, 2-wire (red and black)
FT201-18	5350-18	---	replacement ROM type, 18" top probe, 2-wire (red and black)
FT202	5610RB-7	---	top sensor ROM type, 2" NPT housing, 7" probe, 2-wire (red and black)
FT202-12	5610RB-12	---	top sensor ROM type, 2" NPT housing, 12" probe, 2-wire (red and black)
FT202-18	5610RB-18	---	top sensor ROM type, 2" NPT housing, 18" probe, 2-wire (red and black)
FT206	1000R, 1001R	---	retain sensor ROM type, 1/2" NPT sensor (red and black)
FT9000	---	---	probe housing

Onboard Monitors

FloTech Part #	Civacon Part #	Scully Part #	Description
FT102	3150-3150	08563	replacement module API compatible
FT103	3100-3100	08687	API compatible on-board monitor, with housing
FT203P	3252-3252	---	replacement module, ROM type on-board monitor
FT203PSPEC	3250, 3252	---	replacement module, ROM type on-board monitor with 8 hole cover and frame
FT204P	3202-3202, 3202R-3202	---	ROM type on-board monitor, with housing
FT207	---	09100, 09111, 09584, 09585	replacement module, checkmate on-board monitor
FT208	---	09109, 09107, 09562, 09566	checkmate programmable monitor for top, or top and bottom sensors

Civacon and ROM Link are registered trademarks of Civacon/Dover Corporation

Competitor Cross Reference Chart (continued)
Sockets

FloTech® Part #	Civacon Part #	Scully Part #	Description
FT300	4103-4103	7974	API compatible optic socket with cap (6 pin, 3 J-slot)
FT301	4400-4400	7720	API compatible thermistor socket with cap (8 pin, 2/4 J-slot)
FT302	4600-4600	8116	API compatible float socket
FT303	4201-4201	7976	optic pattern with thermistor J-slot, and cap (6 pin, 2/4 J-slot) (U.S.)
FT304	4403-4403	7716	Canadian/European thermistor socket with cap (10 pin, 4 J-slot)
FT305	4500-4500	7681	thermistor socket, J560 type
FT306	4300-4300	8199	optic socket, J560 type
FT307	4201-4201	7976	optic pattern with thermistor J-slot and cap (6 pin, 2/4 J-slot) (Canada)
FT310	4110-4110	21790	API optic face plate assembly with cap
FT311	4111-4111	20770	API thermistor face plate assembly with cap
FT314	---	20768	Canadian/European thermistor replacement face plate with cap
FT320	4150-4150	8575	blue optic dust cap
FT321	4450-4450	8474	green thermistor dust cap
FT390	4820L and 4820R	9060	EZ-Cept dual socket assembly
FT390G	4822L and 4822R	---	EZ-Cept dual socket assembly with ground bolt

Hardware and System Testers

FloTech Part #	Civacon Part #	Scully Part #	Description
FT400	2100-2100	22056	5 conductor cable 100'
FT400-500	2200-2200	---	5 conductor cable 500'
FT401	2310-2310	27382	7 conductor cable 100'
FT401-1000	2401-2401	---	7 conductor cable 1000'
FT401-150	2300-2300	---	7 conductor cable 150'
FT402	2510-2510	---	20 strain relief fittings, 1/2" NPT
FT403	2530-2530	---	30 strain relief fittings, 1/2" NPT
FT450	GS1000	8560	stainless steel grounding bolt
FT451	---	8274	stainless steel grounding ball
FT470	---	08836	trailer indentification module
FT520	1391-1391	---	optic system tester
FT521	1396-1396	---	API optic test plug, 6 pins and 3 J-slot
FT522	1395-1395	---	optic test plug, 6 pins and 2 or 4 J-slot (plug fits both 2 and 4 J-slot sockets)
FT523	1397-1397	---	optic test plug J560 type
FT555	---	08938	truck tester

API Rack Cords

FloTech Part #	Civacon Part #	Scully Part #	Description
			API Optic Cord Assemblies
FT620	7100SR-7100	21831	blue plug with 6 contact pins and 3 J-slot, on a 30' coiled orange cable
FT620S	7100-STRAIGHT	21764	blue plug with 6 contact pins and 3 J-slot, on a 20' straight orange cable
FT620P	7100-J560	---	blue plug with 6 contact pins and 3 J-slot on a 30' orange coiled cord and J560 plug
FT621	7110SR-7110	21766	replacement blue plug assembly with 6 contact pins and 3 J-slot
FT622	7220-7220	31099	replacement 30' orange coiled cord, optic 6 conductor
FT623	7150-7150	---	optic plug storage hanger
FT624	---	31098	replacement 20' orange straight cord, optic 6 conductor
			API Thermistor Cord Assemblies
FT600	7300SR-7300	21818	green plug with 8 contact pins and 4 J-slot, on a 30' coiled orange cable
FT600P	7320SR-7320	---	green plug with 8 contact pins and 4 J-slot on a 30' orange coiled cord and 13 pin connector
FT600S	7300-STRAIGHT	20830	green plug with 8 contact pins and 4 J-slot, on a 20' straight orange cable
FT600C	7300CSR-7300	31092	green plug with 10 contact pins and 4 J-slot, on a 30' coiled orange cable
FT600SC	7300C-STRAIGHT	---	green plug with 10 contact pins and 4 J-slot, on a 20' straight orange cable
FT601	7310SR-7310	20769	replacement green plug assembly with 8 contact pins and 4 J-slot
FT601-10	---	8959	replacement green plug assembly with 10 contact pins and 4 J-slot
FT602	---	31097	replacement 30' orange coiled cord, thermistor 10 conductor
FT603	7350-7350	---	thermistor plug storage hanger
FT604	---	20834	replacement 20' orange straight cord, thermistor 10 conductor

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Competitor Cross Reference Chart (continued)

Onboard Systems

FloTech® Part #	Civacon Part #	Scully Part #	Description
FT1001	2001-2001	08328L1	API compatible 1 compartment system 7" probes
FT1001-12	2001S-0012	---	API compatible 1 compartment system 12" probes
FT1002	2002-2002	---	API compatible 2 compartment system 7" probes
FT1002-12	2002S-0012	---	API compatible 2 compartment system 12" probes
FT1003	2003-2003	---	API compatible 3 compartment system 7" probes
FT1003-12	2003S-0012	---	API compatible 3 compartment system 12" probes
FT1004	2004-2004	8305	API compatible 4 compartment system 7" probes
FT1004-12	2004S-0012	---	API compatible 4 compartment system 12" probes
FT1005	2005-2005	8306	API compatible 5 compartment system 7" probes
FT1005-12	2005S-0012	---	API compatible 5 compartment system 12" probes
FT1006	2006-2006	---	API compatible 6 compartment system 7" probes
FT1006-12	2006S-0012	---	API compatible 6 compartment system 12" probes
FT2001	3021-3021	---	ROM type, 1 compartment system, overfill and retain, 7" probes
FT2001-12	3021S-0012	---	ROM type, 1 compartment system, overfill and retain, 12" probes
FT2002	3022-3022	---	ROM type, 2 compartment system, overfill and retain, 7" probes
FT2002-12	3022S-0012	---	ROM type, 2 compartment system, overfill and retain, 12" probes
FT2003	3023-3023	---	ROM type, 3 compartment system, overfill and retain, 7" probes
FT2003-12	3023S-0012	---	ROM type, 3 compartment system, overfill and retain, 12" probes
FT2004	3024-3024	---	ROM type, 4 compartment system, overfill and retain, 7" probes
FT2004-12	3024S-0012	---	ROM type, 4 compartment system, overfill and retain, 12" probes
FT2005	3025-3025	---	ROM type, 5 compartment system, overfill and retain, 7" probes
FT2005-12	3025S-0012	---	ROM type, 5 compartment system, overfill and retain, 12" probes
FT2006	3026-3026	---	ROM type, 6 compartment system, overfill and retain, 7" probes
FT2006-12	3026S-0011	---	ROM type, 6 compartment system, overfill and retain, 12" probes
FT2101	3031-3031	---	ROM type, 1 compartment system, overfill only, 7" probes
FT2101-12	3031S-0012	---	ROM type, 1 compartment system, overfill only, 12" probes
FT2102	3032-3032	---	ROM type, 2 compartment system, overfill only, 7" probes
FT2102-12	3032S-0012	---	ROM type, 2 compartment system, overfill only, 12" probes
FT2103	3033-3033	---	ROM type, 3 compartment system, overfill only, 7" probes
FT2103-12	3033S-0012	---	ROM type, 3 compartment system, overfill only, 12" probes
FT2104	3034-3034	---	ROM type, 4 compartment system, overfill only, 7" probes
FT2104-12	3034S-0012	---	ROM type, 4 compartment system, overfill only, 12" probes
FT2105	3035-3035	---	ROM type, 5 compartment system, overfill only, 7" probes
FT2105-12	3035S-0012	---	ROM type, 5 compartment system, overfill only, 12" probes
FT2106	3036-3036	---	ROM type, 6 compartment system, overfill only, 7" probes
FT2106-12	3036S-0012	---	ROM type, 6 compartment system, overfill only, 12" probes

Civacon is a registered trademark of Civacon/Dover Corporation

Competitor Cross Reference Chart (continued)
Onboard Systems

FloTech® Part #	Civacon Part #	Scully Part #	Description
FT2801	---	08251, 09640	checkmate system, 1 compartment system, overfill only, 7" probes
FT2802	---	08352, 09641	checkmate system, 2 compartment system, overfill only, 7" probes
FT2803	---	08352,09642	checkmate system, 3 compartment system, overfill only, 7" probes
FT2804	---	08354, 09643	checkmate system, 4 compartment system, overfill only, 7" probes
FT2805	---	08355, 09644	checkmate system, 5 compartment system, overfill only, 7" probes
FT2806	---	08356	checkmate system, 6 compartment system, overfill only, 7" probes
FT2807	---	08380	checkmate system, 7 compartment system, overfill only, 7" probes
FT2808	---	08381	checkmate system, 8 compartment system, overfill only, 7" probes
FT2811	---	08361	checkmate system, 1 compartment system, overfill and retain, 7" probes
FT2812	---	08362	checkmate system, 2 compartment system, overfill and retain, 7" probes
FT2813	---	03363	checkmate system, 3 compartment system, overfill and retain, 7" probes
FT2814	---	08364	checkmate system, 4 compartment system, overfill and retain, 7" probes
FT2815	---	08365	checkmate system, 5 compartment system, overfill and retain, 7" probes
FT2816	---	08366	checkmate system, 6 compartment system, overfill and retain, 7" probes
FT2817	---	08382	checkmate system, 7 compartment system, overfill and retain, 7" probes
FT2818	---	08383	checkmate system, 8 compartment system, overfill and retain, 7" probes

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Socket Profiles
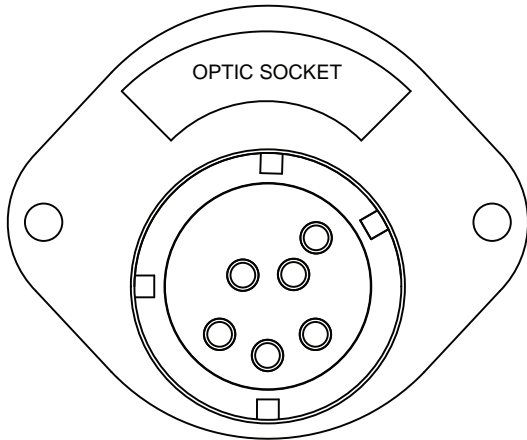
OPTIC SOCKET

FT303 optic socket (US)
FT313 replacement faceplate
FT307 optic socket (Eastern Canada)
FT317 replacement faceplate
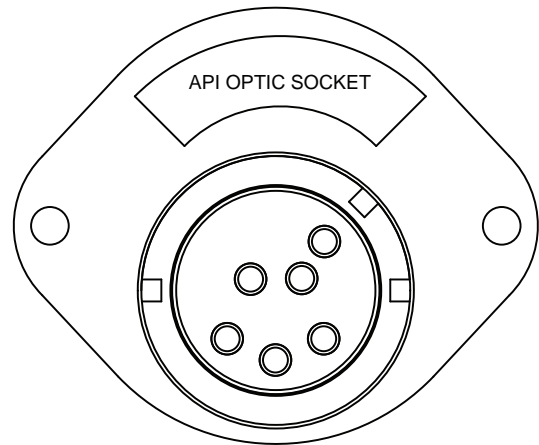
API OPTIC SOCKET

FT300 API optic socket (US)
FT310 replacement faceplate

API THERMISTOR SOCKET
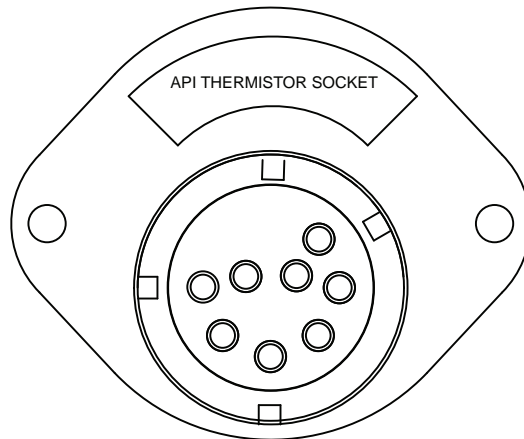
FT301 API thermistor socket (US)
FT311 replacement faceplate assembly
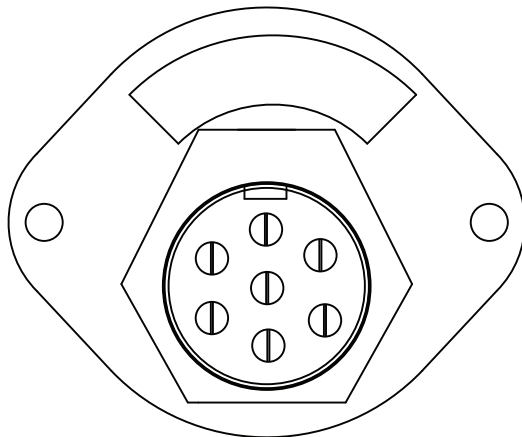
FT302 float J560 socket (US)
FT312 replacement faceplate float J560 socket
FT305 thermistor J560 socket (US)
FT315 replacement faceplate thermistor J560 socket
FT306 optic J560 socket (western Canada)
FT316 replacement faceplate optic J560 socket
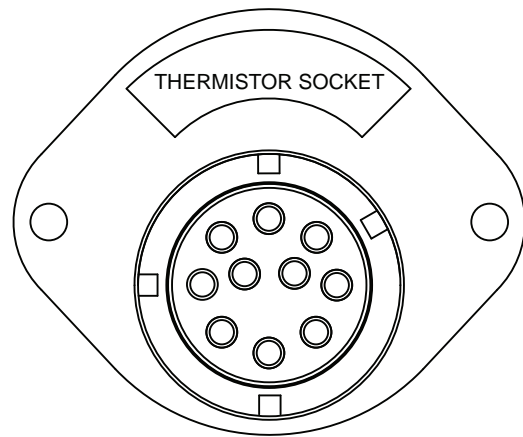
THERMISTOR SOCKET

FT304 thermistor socket (Canada)
FT314 replacement faceplate

Socket Profiles
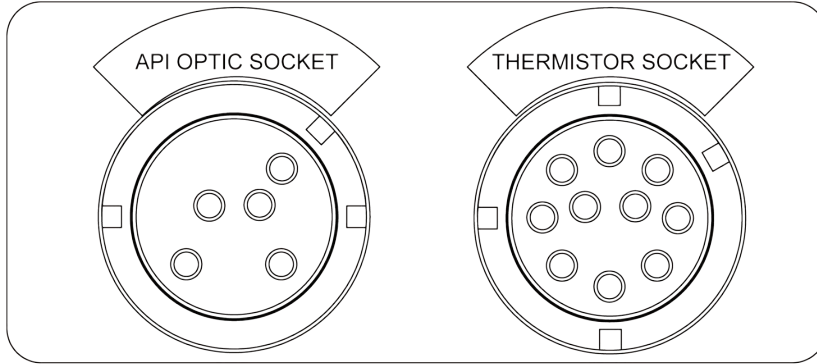
FT390 Dual socket (US)
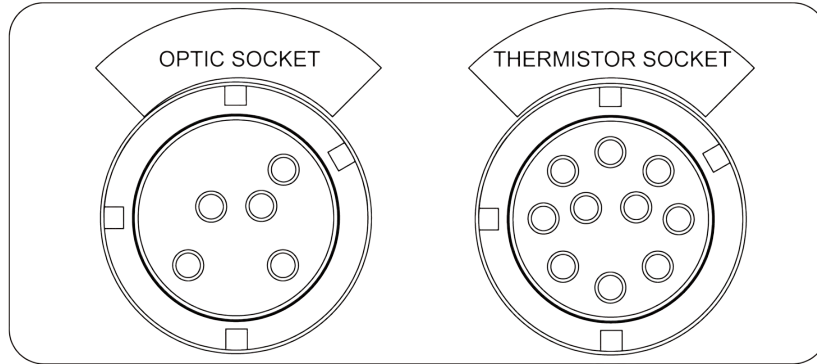
FT391 Dual socket (Canada)
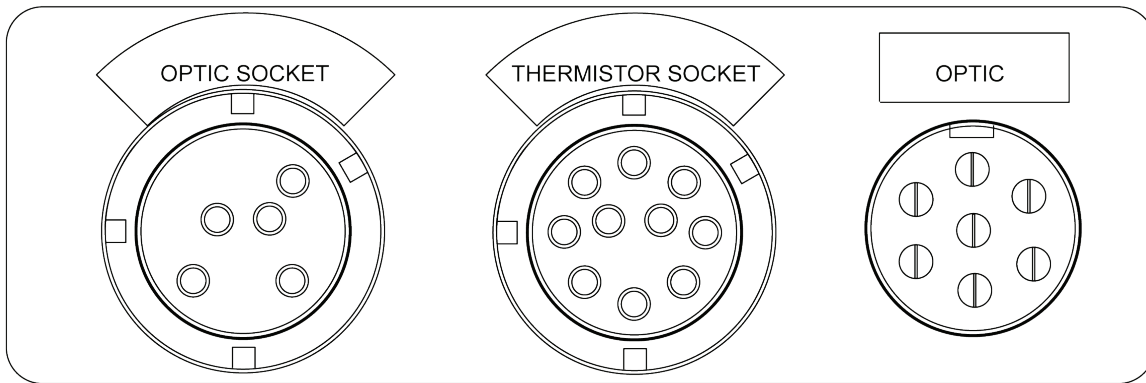
FT395 Triple socket (Canada)
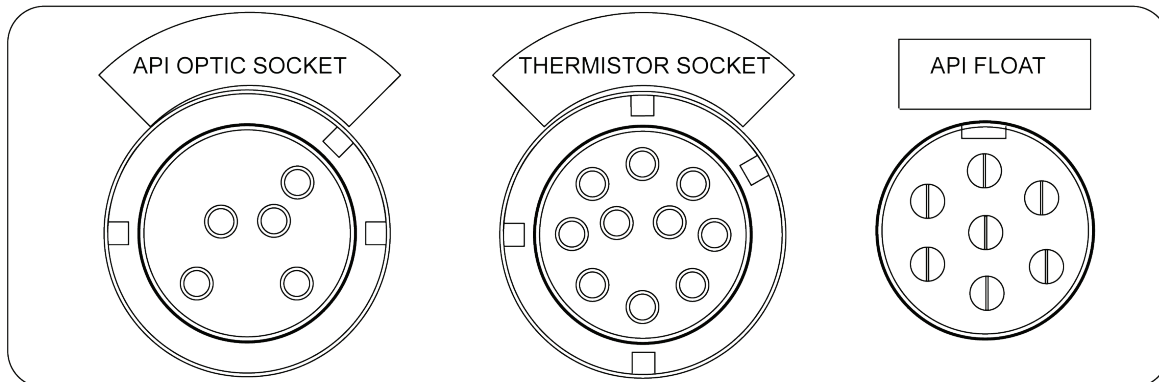
FT393 Triple socket (US)

5500-Series API Coupler

Repair Kits

Description	Part #
small parts kit for 5500-Series rack coupler	5500RK21
aluminum replacement handle kit with bolt and nut	5500RK22
stainless steel replacement handle kit with bolt and nut	5500RK23
locking handle kit	5500RK24
aluminum short handle replacement kit with bolt and nut	5500RK25
replacement poppet kit with links, pins, and cotter pin	5500RK26
replacement seal cylinder-no seal	5500RK27
replacement FKM-GFLT bearing kit for 5500	5500RK51

5500-Series API Coupler

See 5500-Series explosion diagram on preceding page

Bill of Materials

Qty of Components per Unit

Item #	Description	Part #	5500BL	5500E	5500K	5500B	5500G	5500F	5500H
1	body	341933	1	1	1	1	1	1	1
2	shaft	391876	1	1	1	1	1	1	1
3	cotter pin	112307	1	1	1	1	1	1	1
4	sleeve assembly	400764	1	1	1	1	1	1	1
5	valve assembly	400739	1	1	1	1	1	1	1
6A	nose seal assembly-FKM B	400741	---	---	---	1	---	---	---
6B	nose seal assembly-EPDM	400745	---	1	---	---	---	---	---
6C	nose seal assembly-silicone	400746	---	---	---	---	---	1	---
6D	nose seal assembly-FKM GFLT	400742	---	---	---	---	1	---	---
6E	nose seal assembly-Baylast	400743	1	---	---	---	---	---	---
6F	nose seal assembly-FFKM	400767	---	---	1	---	---	---	---
6G	nose seal assembly-Hifluor	400769	---	---	---	---	---	---	1
7A	bearing assembly-FKM B	400747	---	---	---	1	---	---	---
7B	bearing assembly-EPDM	400751	---	1	---	---	---	---	---
7C	bearing assembly-silicone	400752	---	---	---	---	---	1	---
7D	bearing assembly-FKM GFLT	400748	---	---	---	---	1	---	---
7E	bearing assembly-Baylast	400749	1	---	---	---	---	---	---
7F	bearing assembly-FFKM	400766	---	---	1	---	---	---	---
7G	bearing assembly-Hifluor	400770	---	---	---	---	---	---	1
8	bearing washer	112601	1	1	1	1	1	1	1
9	locking plate	112589	1	1	1	1	1	1	1
10A	handle	341937	1	1	1	1	1	1	1
10B	handle lockable assembly	400740	---	---	---	---	---	---	---
10C	stainless steel handle	112627	---	---	---	---	---	---	---
10D	handle SS lockable assembly	400765	---	---	---	---	---	---	---
10E	short handle	341941	---	---	---	---	---	---	---
11	spacer	391142	1	1	1	1	1	1	1
12	cotter pin	111563	2	2	2	2	2	2	2
13	interlocking cam	112147	5	5	5	5	5	5	5
14	torsion spring	112149	6	6	6	6	6	6	6
15	latch	112240	1	1	1	1	1	1	1
16	release	391875	1	1	1	1	1	1	1
17	release washer	112602	2	2	2	2	2	2	2
18	bail	341935	1	1	1	1	1	1	1
19	bail pin	112619	2	2	2	2	2	2	2
20	bail spring	112150	2	2	2	2	2	2	2
21	shoulder screw	112621	1	1	1	1	1	1	1
22	lock nut	112620	1	1	1	1	1	1	1
23	comp. spring	112617	10	10	10	10	10	10	10
24	set screw	112622	2	2	2	2	2	2	1
25	dust ring	112173	1	1	1	1	1	1	1
26	sleeve lock	112625	1	1	1	1	1	1	1
27	shoulder screw	112626	1	1	1	1	1	1	1
28A	O-ring 208, FKM B	112603	---	---	---	1	---	---	---
28B	O-ring 208, EPDM	112611	---	1	---	---	---	---	---
28C	O-ring 208, silicone	112613	---	---	---	---	---	1	---
28D	O-ring 208, FKM GFLT	112605	---	---	---	---	1	---	---
28E	O-ring 208, Baylast	112607	1	---	---	---	---	---	---
28F	O-ring 208, FFKM	112643	---	---	1	---	---	---	---
28G	O-ring 208, Hifluor	112653	---	---	---	---	---	---	1
29	INSIDE SHAFT WASHER	112159	1	1	1	1	1	1	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5204-Series, API Bottom Load Valves
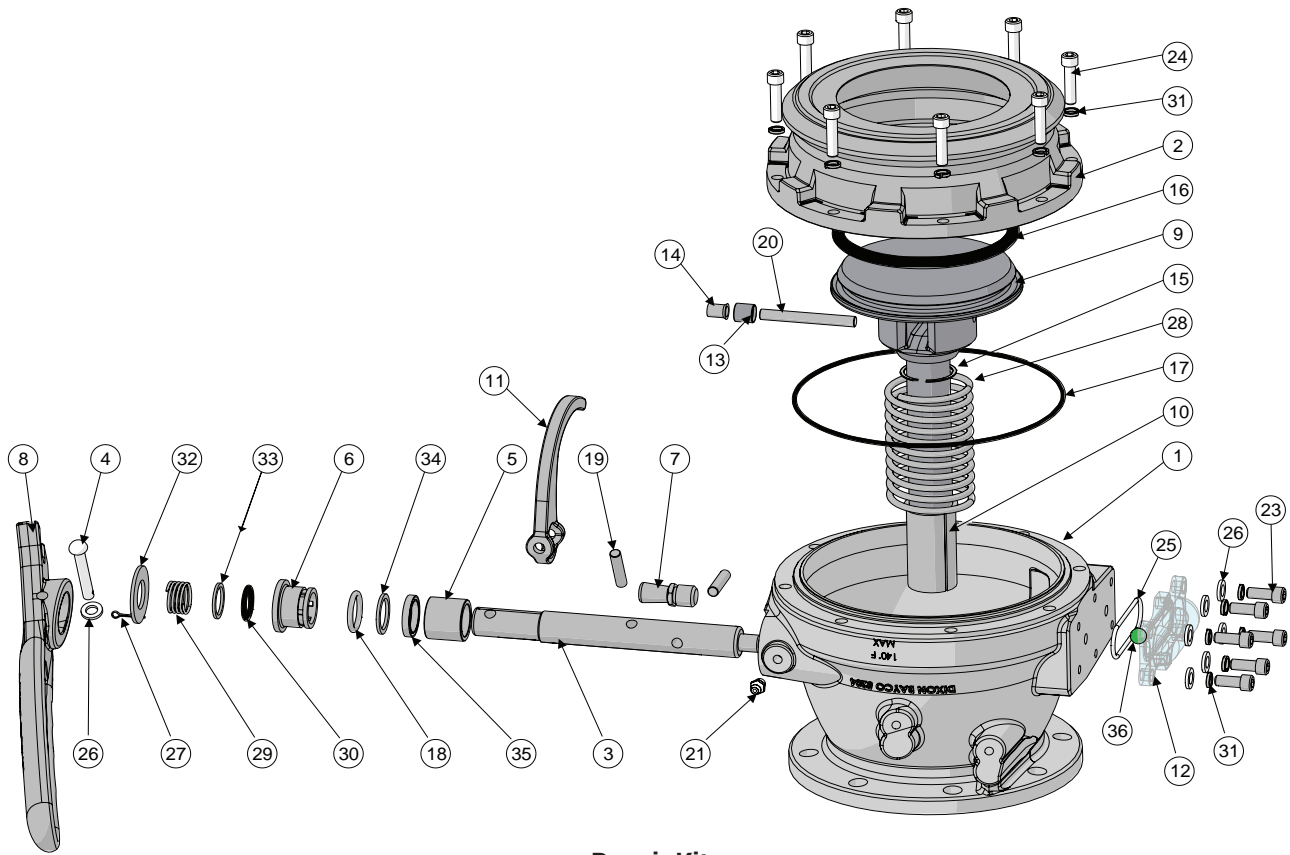
Repair Kits

Part #	Description	Includes Item #
5204K1	Baylast™ poppet O-ring	16A
5204K2	complete rebuild kit: Baylast™ O-rings, bearings	6, 10, 13, 14, 16A, 17A, 18A, 25A, 30, 32, 35
5204KV2	complete rebuild kit: FKM poppet O-ring, Baylast O-rings, bearings	6, 10, 13, 14, 16B, 17A, 18A, 25A, 30, 32, 35
5204K3	anodized nose ring with Baylast gasket, screws, and lock washers	2, 17A, 24, 31
5204K5	detachable handle assembly (for 5204C and 5204NGC)	not illustrated
5204K6	PTFE encapsulated seal kit, poppet O-ring, nose O-ring, shaft O-ring, and sight glass O-ring	16C, 17B, 18B, 25B
5204K7	fixed handle assembly	4, 6, 8A, 26, 27, 29, 32
5204K8	sight glass repair kit	12, 25A, 36
5204K9	sight glass cover kit (to convert units with sight glass to non-sight glass)	not illustrated
5204K11	nose ring replacement 8 hex bolts and 8 washers kit	24, 31
5204K12	sight glass replacement hardware, 6 hex bolts, 6 lock washers, and 4 washers kit	23, 26, 31
5204K13	full body sight glass, seals, and retainer kit for 5204SFI	38, 39, 40

NOTE: See 5204-Series bill of materials on the following page

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5204-Series, API Bottom Load Valves

See 5204-Series explosion diagram on preceding page

Bill of Materials   **Qty of Components per Unit**

Item #	Description	Part #	5204	5204NG	5204TNG	5204SNG	5204NGV	5204C	5204NGC	5204L	5204LNG
1	body-pipe end	---	1	1	1	1	1	1	1	1	1
2	nose ring	use kit 5204K3	1	1	1	1	1	1	1	1	1
3	shaft	390812	1	1	1	1	1	1	1	---	---
4	handle pin	111559	1	1	1	1	1	---	---	---	---
5	shaft spacer	390813	1	1	1	1	1	1	1	---	---
6	shaft bearing	111557	1	1	1	1	1	1	1	---	---
7	stop pin	5204-SP	1	1	1	1	1	1	1	---	---
8A	fixed handle	use kit 5204K7	1	1	1	1	1	---	---	---	---
8B	removeable handle	use kit 5204K5	---	---	---	---	---	1	1	---	---
9A	poppet (load/unload versions)	341755	1	1	1	1	1	1	1	---	---
9B	poppet (load only versions)	341756	---	---	---	---	---	---	---	1	1
10	poppet bearing	341801	1	1	1	1	1	1	1	1	1
11	cam	111550	1	1	1	1	1	1	1	---	---
12	sight glass	use kit 5204K8	1	---	---	---	---	1	---	1	---
13	poppet roller	390815	1	1	1	1	1	1	1	---	---
14	poppet roller bearing	111556	1	1	1	1	1	1	1	---	---
15	retaining ring	111560	1	1	1	1	1	1	1	1	1
16A	Baylast™ poppet O-ring	5204K1	1	1	---	1	---	1	1	1	1
16B	FKM poppet O-ring	5204KV1	---	---	---	---	1	---	---	---	---
16C	PTFE encapsulated poppet O-ring	use kit 5204K6	---	---	1	---	---	---	---	---	---
17A	nose ring O-ring	111554	1	1	---	1	1	1	1	1	1
17B	PTFE nose O-ring	use kit 5204K6	---	---	1	---	---	---	---	---	---
18A	shaft O-ring	111552	1	1	---	1	1	1	1	---	---
18B	PTFE shaft O-ring	use kit 5204K6	---	---	1	---	---	---	---	---	---
19	shaft and cam roll pin	6000-12	2	2	2	2	2	2	2	---	---
20	pin roller	111566	1	1	1	1	1	1	1	---	---
21	grease fitting	111561	1	1	1	1	1	1	1	---	---
23	sight glass screw	use kit 5204K12	6	---	---	---	---	6	---	6	---
24	nose ring screw	use kit 5204K11	8	8	8	8	8	8	8	8	8
25A	Baylast sight glass O-ring	use kit 5204K8	1	---	---	---	---	1	---	1	---
25B	PTFE sight glass O-ring	use kit 5204K6	---	---	---	---	---	---	---	---	---
26	washer	111562	1	1	1	1	1	6	---	6	---
27	cotter pin	111563	1	1	1	1	1	---	---	---	---
28A	main spring-steel	111564	1	1	---	---	1	1	1	1	1
28B	main spring-stainless steel	111542	---	---	1	1	---	---	---	---	---
29	handle spring	111565	1	1	1	1	1	1	1	---	---
30	dust seal O-ring	111553	1	1	1	1	1	1	1	---	---
31	lock washer 1/4"	111569	14	8	8	8	8	14	8	14	8
32	handle shaft spring washer	111573	1	1	1	1	1	1	1	---	---
33	handle shaft washer	111574	1	1	1	1	1	1	1	---	---
34	back-up ring	111579	1	1	1	1	1	1	1	---	---
35	U-cup seal	111580	1	1	1	1	1	1	1	---	---
36	float ball indicator	use kit 5204K8	1	---	---	---	---	1	---	---	---
38 [1]	retaining ring	use kit 5204K13	---	---	---	---	---	---	---	---	---
39 [1]	SFI sight glass	use kit 5204K13	---	---	---	---	---	---	---	---	---
40 [1]	SFI sight glass O-ring (Baylast)	use kit 5204K13	---	---	---	---	---	---	---	---	---

[1] Not illustrated, parts for 5204-SFI

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5000-24 API Dust Caps
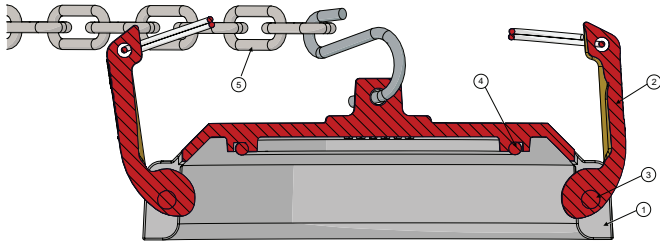
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	cam arm and ring	300-HRP-BR	2
3	cam arm pin	5000-24	2
4A	Baylast™ O-ring (standard)	4500-5	1
4B	FKM O-ring (optional)	4500-7	1
5	18" chain and S hook	5205-RK4	1

Repair Kits

Part #	Description	Item #
4500RK	cam arms, pins and Baylast O-ring seal (standard)	2, 3, 4A
4500RK-V	cam arms, pins and FKM O-ring seal (optional)	2, 3, 4B
5205-RK4	18" chain and S hook	5

5205 API Dust Caps
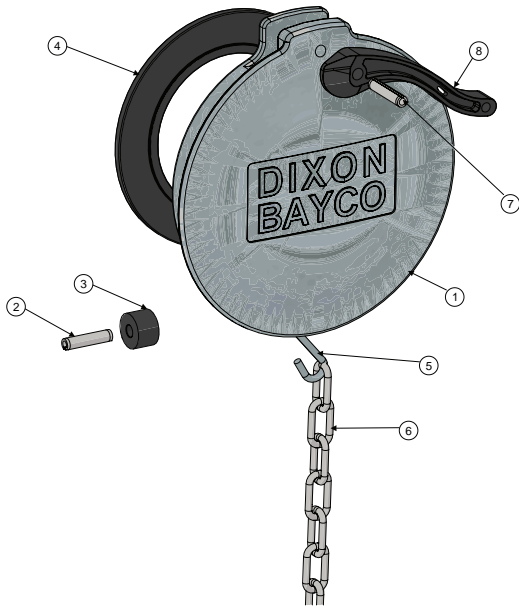
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	slotted pin	use kit 5205-RK3	1
3	roller	use kit 5205-RK3	1
4	gasket	use kit 5205-RK1	1
5	S hook	use kit 5205-RK4	1
6	18" chain	use kit 5205-RK4	1
7	spring pin	use kit 5205-RK2	1
8	plastic cam arm	use kit 5205-RK2	1

Repair Kits

Part #	Description	Item #
5205-RK1	gasket kit	4
5205-RK2	cam arm and pin	7, 8
5205-RK3	roller and pin	2, 3
5205-RK4	chain and S hook	5, 6

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5000-24L Lockable API Caps

Bill of Materials

Item #	Description	Part #	Qty
1	pin	325-P	2
2	NBR O-ring	4500-5	1
3	S hook	112167	1
4	chain 18"	500-15	1
5	lockable arm with ring	341836	2
6	API dust cap	---	1

Repair Kit

Part #	Description	Item #
5000-24LRK	arm and seal repair kit	1, 2, 5
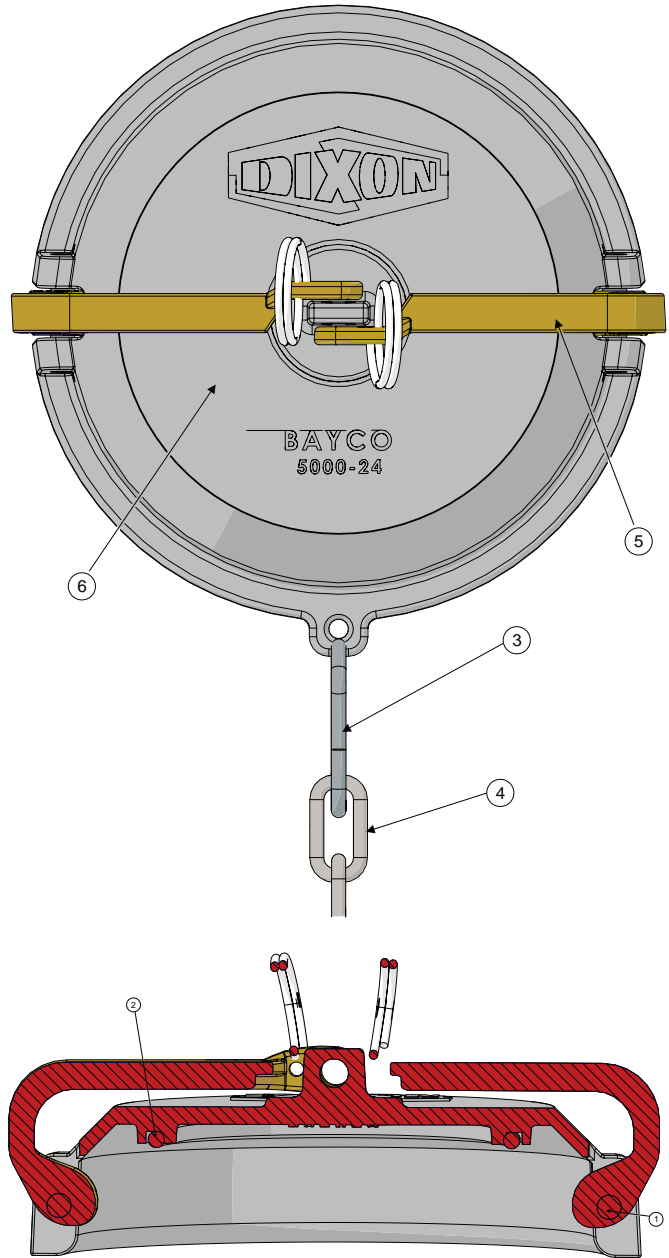
4530 and 4540-Series Gravity Drop Adapters
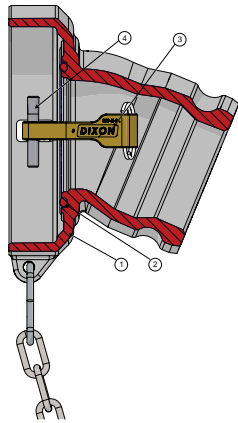
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2A	Baylast™ O-ring (standard)	4500-5	1
2B	FKM O-ring (standard)	4500-7	1
3	cam arm and ring	300-HRP-BR	2
4	cam pin	300-HRP-BR	2
---	18" chain and S hook	5205-RK4	1

Repair Kits

Part #	Description	Item #
4500RK	cam arms, rings, pins and Baylast O-ring	2A, 3, 4
4500RK-V	cam arms, rings, pins and FKM O-ring	2B, 3, 4
5205-RK4	8" security chain and S hook	---

4530SG and 4540SG (with Sight Glass) Gravity Drop Adapters
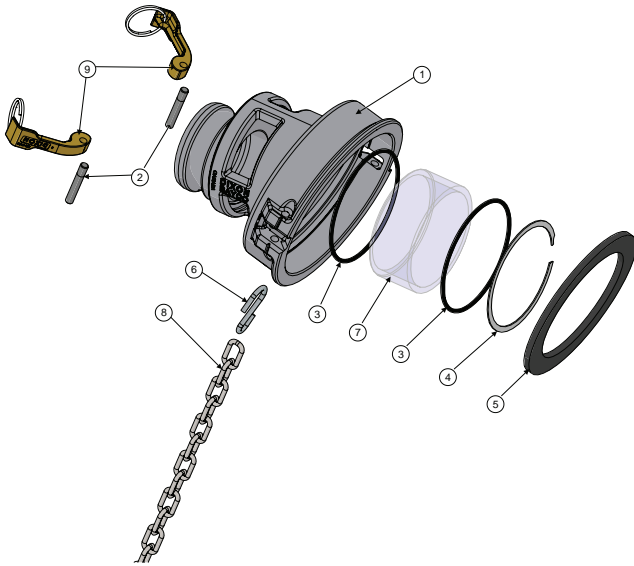
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	cam arm pin	L519-15	2
3	Baylast O-ring	112052	2
4	retaining ring	112053	1
5	Baylast main gasket	4540SG-RK2	1
6	S hook	use kit 5205-RK4	1
7	sight glass	use kit 4540SG-RK1	1
8	18" chain	use kit 5205-RK4	1
9	cam arm and ring	ACAR34BZ	2

Repair Kits

Part #	Description	Item #
4540SG-RK1	sight glass repair kit (fits 3" and 4")	3, 4, 7
4540SG-RK2	Baylast main gasket (fits 3" and 4")	5A
4540SG-RK2-V	FKM main gasket (fits 3" and 4")	5B
4540SG-RK3	cam arms and pins (fits 3" and 4")	2, 9
5205-RK4	chain and S hook	6, 8

4540F Gravity Drop Adapters
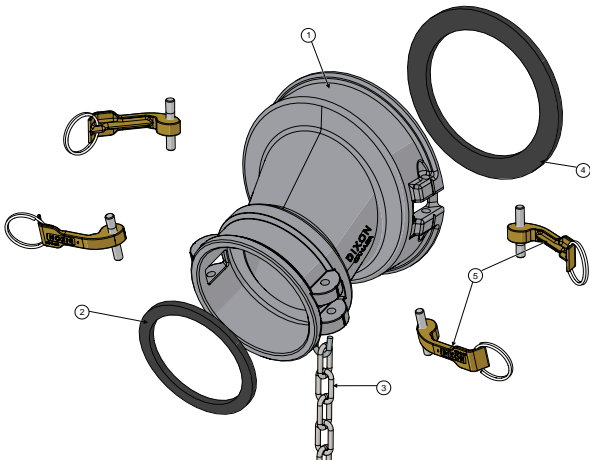
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	4" NBR fuel gasket	400-G-BF	1
3	18" chain with S hook	5205-RK4	1
4	Baylast main gasket	4540SG-RK2	1
5	brass cam arm, pin and finger ring (kit)	300-HRP-BR	4

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

4500 Drop Adapter Mounting Ring for 2-Piece Gravity Drop Adapters

4500, 4502 and 4504 Main Body Inlet

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	cam arm and ring	300-HRP-BR	2
3A	Baylast™ O-ring (standard)	4500-5	1
3B	FKM O-ring (optional)	4500-7	1
4	cam arm pin	300-HRP-BR	2
5	rivet	390564	1

Repair Kits

Part #	Description	Item #
4500RK	cam arms, rings, pins and Baylast O-ring (standard)	2, 3A, 4
4500RK-V	cam arms, rings, pins and FKM O-ring (optional)	2, 3B, 4
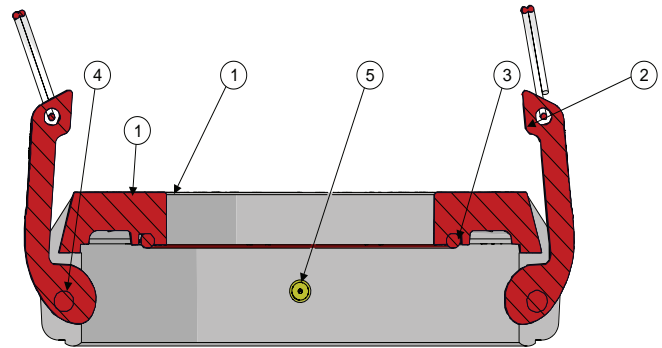
4500-Series Drop Adapter Outlets

4501, 4502, 4503 and 4504

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	sight glass	see below	2
3A	Baylast gasket	4433	2
3B	FKM gasket	4426	1
4	stainless bolt	4427	8
5	stainless washer	WASHER.375-SS	8
not illustrated	coupler gasket for 4504	400-G-BF	1
not illustrated	cam arm and ring for 4504	ACAR34BZ	2
not illustrated	cam arm pin for 4504	L519-12	2

Repair Kits

Part #	Description	Item #
4400SGK	sight glass and Baylast gaskets for 4501 and 4504	2, 3A
4400SGK-V	sight glass and FKM gaskets for 4501 and 4504	2, 3B
4502SGK	sight glass and Baylast gaskets for 4502 and 4503	2, 3A
4502SGK-V	sight glass and FKM gaskets for 4502 and 4503	2, 3B
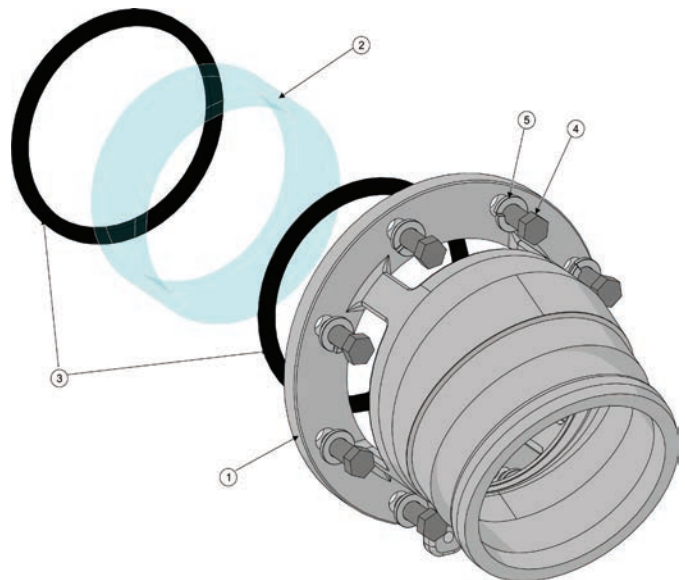
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5200-SFI-Series, Sight Glass

Bill of Materials
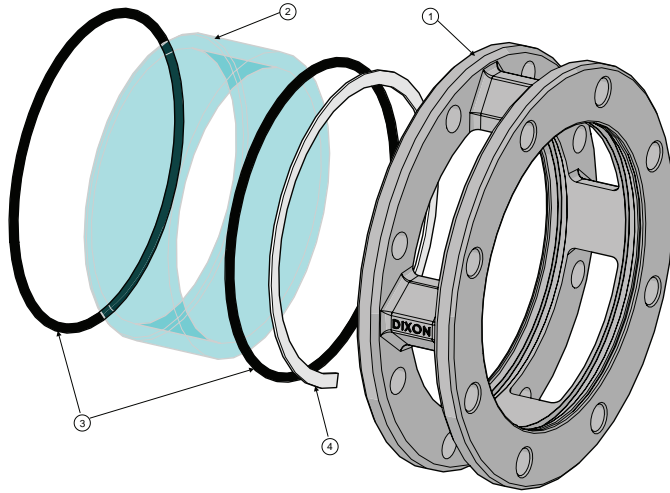
Item #	Description	Part #
1A	body 3"-1-3/4"	241667
1B	body 3"-3-1/4"	242055
1C	body 4"-3-3/4"	241964
1D	body 4"-3-1/4"	242028
2A	sight glass	391149
2B	sight glass	391859
2C	sight glass	390843
2D	sight glass	390844
3A	3" Baylast™ O-ring	111692
3B	3" FKM O-ring	112097
3C	4" Baylast O-ring	112028
3D	4" FKM O-ring	112098
4A	3" retaining ring	112056
4B	3" retaining ring	40419SS
4C	4" retaining ring	112055
4D	4" retaining ring	40420SS

Repair Kits

Part #	Description	Includes Item #
5200-SFI-3-RK1	sight glass for 5200-SFI-3	2C, 3A, 4A
5200-SFI-RK1	sight glass for 5200-SFI	2D, 3C, 4C
5200-SFIV-RK1	sight glass for 5200-SFIV	2D, 3D, 4C
5200-SFI-3V-RK1	sight glass for 5200-SFI-3V	2C, 3B, 4A
5201-SFI-3-RK1	sight glass for 5201-SFI-3	2B, 3A, 4A
5201-SFI-RK1	sight glass for 5201-SFI	2A, 3C, 4C

Drop Elbow Inlets

Fits 6000, 6200, and 6500-Series Elbows
6000-14 and 6000-15 Female Coupler Inlets
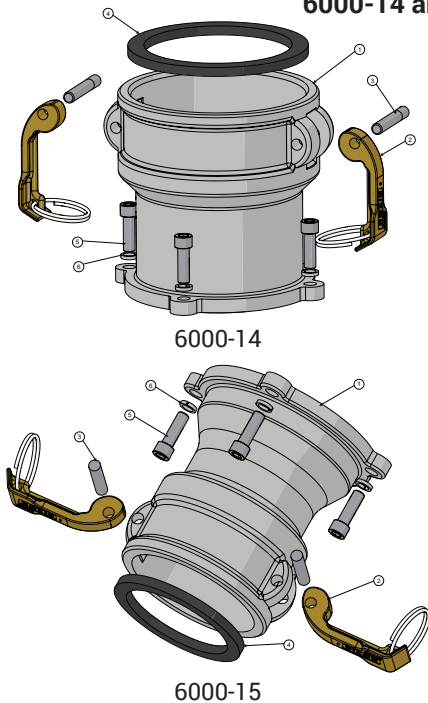
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	cam arm and ring	300-HRP-BR	2
3A	4" cam arm pin	300-HRP-BR	2
3B	3" cam arm pin	300-HRP-BR	2
4A	4" gasket (6000-14)	400-G-BF	1
4B	3" gasket (6000-15)	300-G-BF	1
5	hex screw	use kit 6000NPHK	4
6	lock washer	use kit 6000NPHK	4

6000-14

6000-15

Repair Kit

Part #	Description	Includes Item #
6000NPHK	adapter kit includes (4) bolts and (4) lock washers	5, 6

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Top "D" Handle Elbows

Fits 6000 Elbow Only

Bill of Materials

Item #	Description	Part #	Qty
1	body	6200-1	1
2A	Baylast™ gasket	4433	2
2B	FKM gasket (optional)	4426	2
3	lock washer	use kit 6000EHK	4
4	bolt	use kit 6000EHK	4
5	sight glass	use kit 6200SGK	1
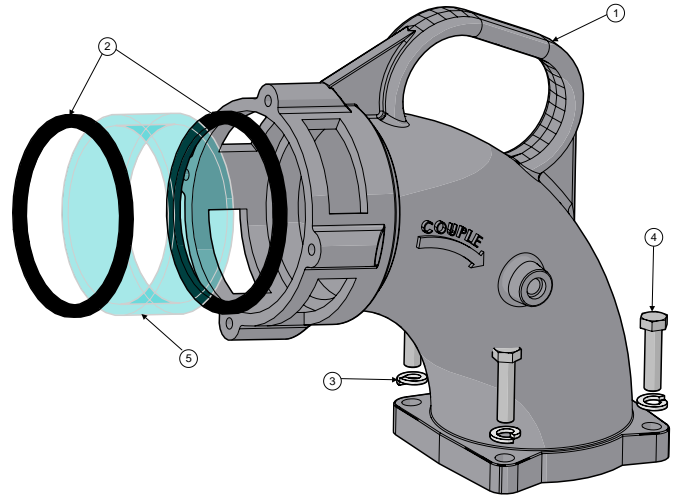
Repair Kits

Part #	Description	Includes Item #
6200SGK	sight glass and Baylast seal	2, 5
6000EHK	bolts and washers	3, 4

Bottom Unit, for "D" Handle Elbows

Fits 6000, 6303 and 6304

Bill of Materials

Item #	Description	Part #	Qty
1	body	use kit 6030	1
2	small bushing	use kit 6200BK	2
3	large bushing	use kit 6200BK	2
4	handle stem	6000-7	1
5	main gasket	6000-9	1
6	spring	112012	1
7	O-ring	AS156	1
8	grease nipple	NIPPLE/1	1
9	right arm	use kit 6200ARK	1
10	left arm	use kit 6200ARK	1
11	handle	6000-8	1
12	handle pin	6000-13	1
13	pin	6000-12	1
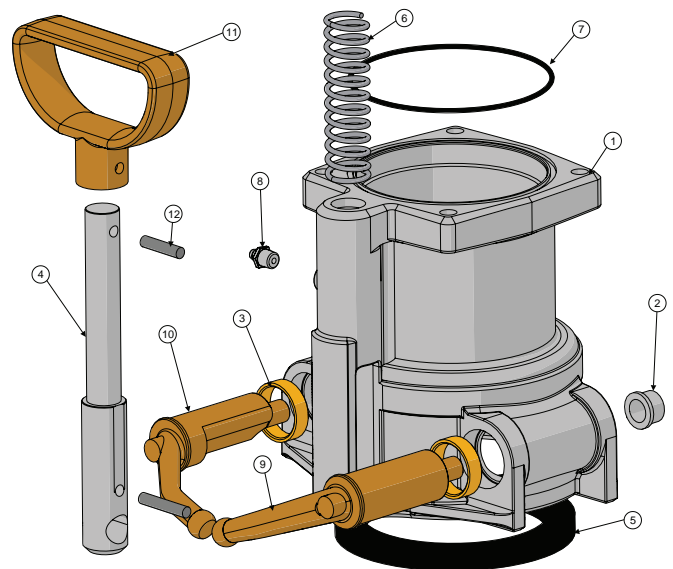
Repair Kits

Part #	Description	Includes Item #
6030	complete bottom unit	all
6200ARK	L and R arms, main gasket, O-rings, small and large bushings	2, 3, 5, 7, 9, 10
6200BK	2 small and 2 large bushings	2, 3

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Top Side Lever Elbows

Fits 6200 Elbow Only

Bill of Materials
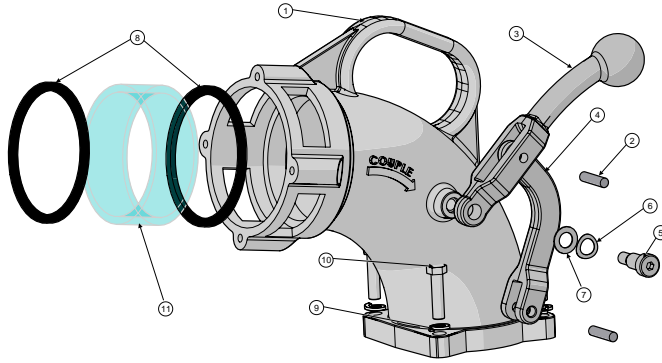
Item #	Description	Part #	Qty
1	body	6200-1	1
2	pin	PIN5/16X 1 1/4P	2
3	handle	use kit 6200-15ASSM	1
4	handle linkage	use kit 6200-15ASSM	1
5 [1]	shoulder bolt	use kit 6200SBK	1
6 [1]	wave washer	use kit 6200SBK	2
7 [1]	SS flat washer	use kit 6200SBK	1
8A	Baylast™ gasket	4433	2
8B	FKM gasket (optional)	4426	2
9	lock washer	use kit 6000EHK	4
10	bolt	use kit 6000EHK	4
11	sight glass	use kit 6200SGK	1
12 [2]	bushing	use kit 6200SHK	1
13 [2]	stud	use kit 6200SHK [2]	1
14 [2]	nylon washer	use kit 6200SHK [2]	2
15 [2]	nut	use kit 6200SHK [2]	1

Repair Kits

Part #	Description	Includes Item #
6200-15ASSM	handle, linkage	2, 3, 4
6200SGK	sight glass and Baylast seals	8, 11
6000EHK	bolts and lock washers	9, 10
6200SBK [1]	shoulder bolt pivot, wave washer and flat washer	5, 6, 7
6200SHK [2]	stud pivot, nylon washers, bushing and nut	12, 13, 14, 15

[1] items 5 through 7 are for newer version with shoulder bolt pivot only
[2] for older version with stud and nut pivot use items 12 through 15 instead

Bottom Unit, for Side Lever Elbows

Fits 6200, 6400 and 6500 Standard and Tall Elbows

Bill of Materials
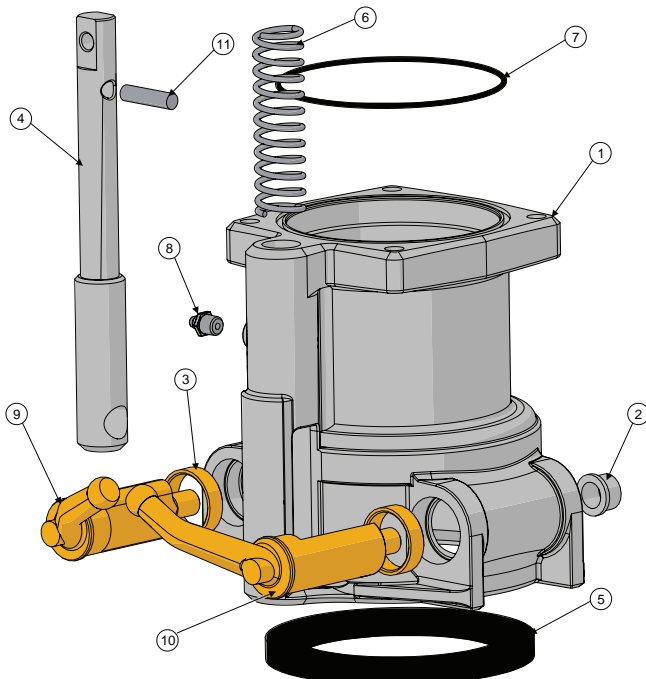
Item #	Description	Part #	Qty
1	body	use kit 6230 or 6230X	1
2	small bushing	use kit 6200BK	2
3	large bushing	use kit 6200BK	2
4A	handle stem (standard)	6200-7	1
4B	handle stem (tall)	6200-7X	1
5	main gasket	6000-9	1
6	spring	112012	1
7	O-ring	AS156	1
8	grease nipple	NIPPLE/1	1
9	right arm	use kit 6200ARK	1
10	left arm	use kit 6200ARK	1
11	pin	PIN5/16X 1 1/4P	1

Repair Kits

Part #	Description	Includes Item #
6230	complete bottom unit	all
6230X	complete tall bottom unit	all
6200ARK	L and R arms, main gasket, O-rings, small and large bushings	2, 3, 5, 7, 9, 10
6200BK	small and large bushings	2, 3

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Top Side Lever Elbows
Fits 6500 Elbow Only

Bill of Materials

Item #	Description	Part #	Qty
1	body	341709	1
2	mounting plate	use kit 6500AHK	1
3	lower lever pin	111728	1
4	upper lever pin	111727	1
5	plate screw	112242	3
6	washer	WASHER.375-SS	3
7	handle	use kit 6500-RK1	1
8	linkage	use kit 6500-RK1	1
9A	Baylast™ gasket	4433	2
9B	FKM gasket (optional)	4426	2
10	sight glass	use kit 6200SGK	1
11	locking latch	use kit 6500-RK1	1
12	lock nut	111730	1
13	bushing	390841	1
14	screw	111729	1
15	bolt	use kit 6000EHK	4
16	lock washer	use kit 6000EHK	4
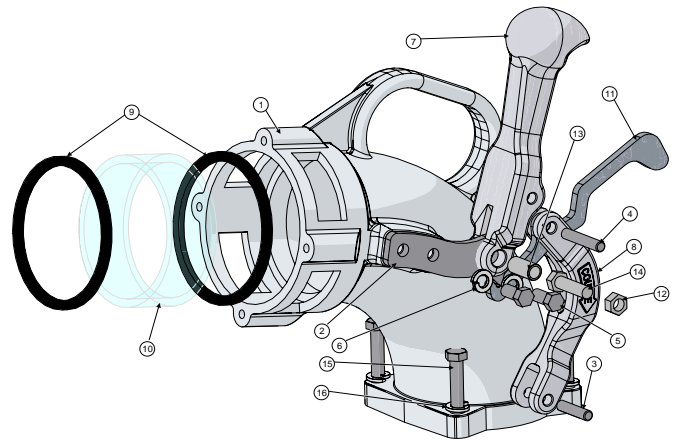
For bottom end replacement parts, please see below

Repair Kits

Part #	Description	Includes Item #
6200SGK	sight glass and Baylast seals	9A, 10
6000EHK	bolts and washers	15, 16
6500-RK1	handle, linkage, lock latch, nut, bushing, pins	2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14
6500AHK	mounting plate, screws and lock washers	2, 5, 6, 14

6303 and 6304-Series Straight Drop Fittings
6303 (3" inlet), 6304 (4" inlet)

Bill of Materials

Item #	Description	Part #	Qty
1	complete bottom unit	6030	1
2A	4" adapter inlet tube	6304-1	1
2B	4" MNPT inlet tube	400460	1
2C	3" adapter inlet tube	6300-3	1
2D	3" MNPT inlet tube	400588	1
3	O-ring	AS156	1
4	lock washer	use kit 6000EHK	4
5	bolt	use kit 6000EHK	4

Elbow Hardware Kit

Part #	Description	Includes Item #
6000EHK	lock washer, bolt	4, 5
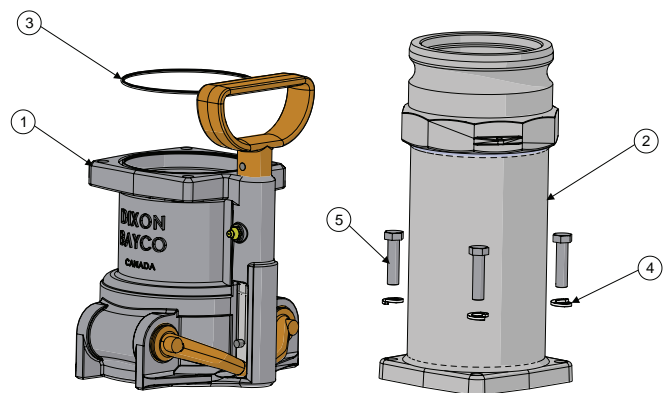
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

6400-Series Coaxial Drop Elbow with 3" Male Vapor Outlet
6400 (4" Male Inlet), 6400F (4" Female Inlet), 6430 (3" Male Inlet), 6430F (3" Female Inlet)

Bill of Materials

Item #	Description	Part #	Qty
1	bottom body	use kit 6230 or 6230X	1
2	small bushing	use kit 6400ARK	2
3	large bushing	use kit 6400ARK	2
4	right arm	use kit 6400ARK	1
5	left arm	use kit 6400ARK	1
6	stem spring	112012	1
7	main gasket	6000-9	1
8	tube U-cup seal	U-CUP-2/75	1
9	grease nipple	NIPPLE/1	1
10	tube	use kit 6400-DTK or 6400EXT-3	1
11	O-ring	AS156	1
12	tube O-ring	O-RING#39	2
13	lock washer	use kit 6000EHK	4
14	bolt	use kit 6000EHK	4
15	inlet O-ring	AS156	2
16A	4" adapter fuel inlet (6400)	use kit 6000-17C	1
16B	4" coupler fuel inlet (6400F)	use kit 6000-14C	1
16C	3" adapter fuel inlet (6430)	use kit 6000-16C	1
16D	3" coupler fuel inlet (6430F)	use kit 6000-15C	1
17	inlet bolt	SC5/16-18X2.5P	4
18	inlet bolt lock washer	111723	4
19	inlet bolt spacer	6544CA-1	4
20	sight glass	use kit 6400SGK	1
21A	3" adapter vapor outlet	6400-4	1
21B	3" male NPT vapor outlet	6000-26C	1
22	vapor adapter bolt	4432	4
23	vapor adapter O-ring	110601	1
24	top coaxial elbow body	6400-1	1
25	handle	use kit 6200-15ASSM	1
26	handle pin	PIN5/16X 1 1/4P	1
27	wave washer [1]	use kit 6200SBK [1]	1
28	SS flat washer [1]	use kit 6200SBK [1]	1
29	shoulder bolt [1]	use kit 6200SBK [1]	1
30	set screw	SC3/8NCX1/2	1
31	linkage	use kit 6200-15ASSM	1
32	stem pin	PIN5/16X 1 1/4P	1
33A	lever stem (standard)	6200-7	1
33B	lever stem (tall)	6200-7X	1
34	pivot lock nut [2]	use kit 6200SHK [2]	1
35	washer [2]	use kit 6200SHK [2]	2
36	pivot stud [2]	use kit 6200SHK [2]	1
37	pivot bushing [2]	use kit 6200SHK [2]	1

[1] items 27, 28, and 29 are for the newer version with a shoulder bolt pivot only

[2] for the older version with stud and nut pivot, use items 34 through 37 instead

Inlet Adapter and Coupler Kits

Part #	Description	Includes Item #
6000-14C	4" coupler inlet kit	16B, 17, 18
6000-15C	3" coupler inlet kit	16D, 17, 18
6000-16C	3" adapter inlet kit	16C, 17, 18
6000-17C	4" adapter inlet kit	16A, 17, 18
6000-26C	3" male NPT vapor outlet	21B

Repair Kits

Part #	Description	Includes Item #
6230	complete bottom unit	1-7, 9, 11, 32, 33A
6230X	complete tall bottom unit	1-7, 9, 11, 32, 33B
6400ARK	L and R arms, main gasket, O-rings, small and large bushings	2-5, 7, 8, 11, 12
6200BK	small and large bushings	2, 3
6400SGK	sight glass and seal	15, 20
6200-15ASSM	handle, lever, and pin	25, 26, 31
6000EHK	bolts and washers	13, 14
6400-DTK	tube, O-ring, and U-cup seal	8, 10, 12
6200SHK [2]	pivot stud, bushing, washer, and lock nut	34-37
6200SBK [1]	shoulder bolt pivot, wave washer, and flat washer	27-29
6400EXT-3	tall tube, O-ring, and U-cup seal	8, 10, 12

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

6600-Series Shut Off Elbow Repair Kits
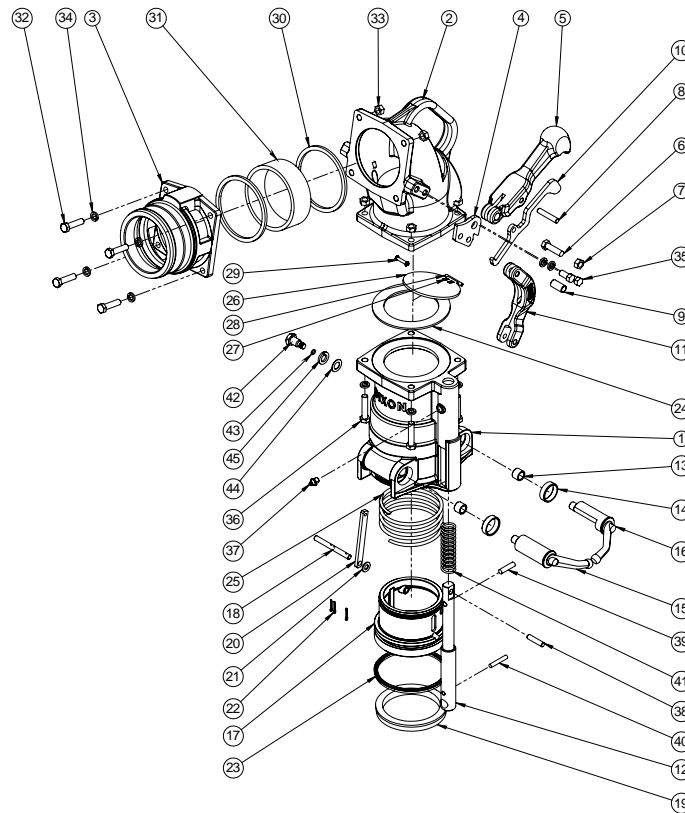
Repair Kits

Part #	Description	Includes Item #
6600RK1	shut off elbow handle kit	4, 5, 6, 7 ,8 ,9, 10, 11, 34, 35
6600RK2	sleeve kit for shut off elbow with flapper	17, 18, 19, 20, 21, 22, 23, 42, 43, 44,45
6600RK3	sleeve kit for shut off elbow without flapper	17, 19, 23, 42, 43, 44, 45
6600RK4	shut off elbow flapper kit	26, 27, 28, 29
6600RK5	shut off elbow complete seal kit	19, 23, 24, 30, 43
6600RK6	shut off elbow cam arm kit	13, 14, 15, 16
6600RK7	shut off elbow cam arm bushing kit	13, 14

Bill of Materials

Item #	Description	Part #	Qty
31	sight glass only	use kit 6200SGK	1
30	baylast™ seal	use kit 6200SGK	2
4-11	handle subassembly	use kit 6600RK1	1
35	bolt hex 3/8"-16 x 3/4" LG UNC	use kit 6600RK1	2
34	washer .375" ss	use kit 6600RK1	2
17-23	sleeve subassembly	use kit 6600RK3	1
42	lock screw shut off elbow	use kit 6600RK3	1
45	washer lock .500" ss	use kit 6600RK3	1
44	flat washer 1/2" 304 ss	use kit 6600RK3	1
43	O-ring 2-010 baylast	use kit 6600RK3	1
26-28	flapper subassembly	use kit 6600RK4	1
29	3/16" clevis pin	use kit 6600RK4	1
19	main gasket-shutoff elbow	use kit 6600RK5	1
24	flapper gasket-shutoff elbow	use kit 6600RK5	1
23	lip seal	use kit 6600RK5	1
43	O-ring 2-010 baylast	use kit 6600RK5	1
30	baylast seal	use kit 6600RK5	2
15	cam arm - left	use kit 6600RK6	1
16	cam arm - right	use kit 6600RK6	1
13	small bushing	use kit 6600RK6 or 6600RK7	2
14	large bushing	use kit 6600RK6 or 6600RK7	2

6000-SSA-Series 4" Side Seal Adapters

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	coupler arm	use kit 6000SSHK	2
3	lip seal gasket	L2373	1
4	spring	L2312	2
5	pin	L2311	2
6	retaining ring	TRUARC-5100-25	4

Repair Kit

Part #	Description	Includes Item #
6000SSHK	arms, springs, pins, and retaining rings	2, 4, 5, 6
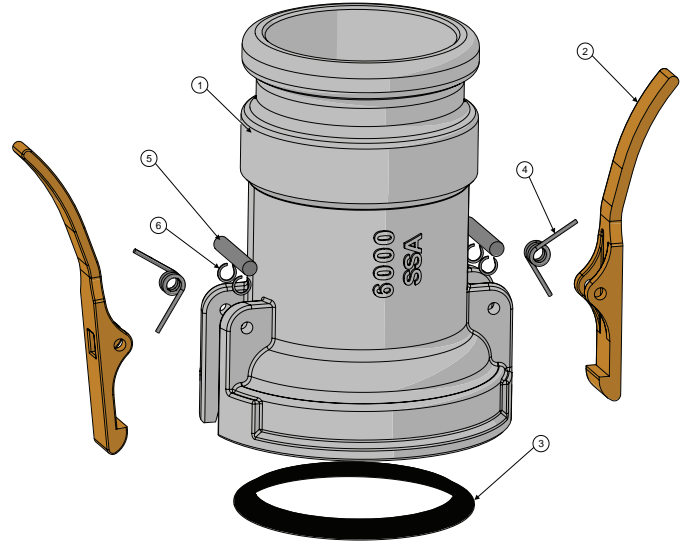
6000AS-Series Side Seal Elbows

Bill of Materials

Item #	Description	Part #	Qty
1	bottom body	use kit 6030AS	1
2	top body	6200-1	1
3	sight glass	use kit 6200SGK	1
4A	Baylast™ seal	4433	2
4B	FKM seal	4426	2
5	bolt	use kit 6000EHK	4
6	lock washer	use kit 6000EHK	4
7	retaining ring	TRUARC-5100-25	4
8	pin	L2311	2
9	spring	L2312	2
10	lip seal	L2373	1
11	arm	use kit 6000SSHK	2
12	O-ring	AS156	1

Repair Kits

Part #	Description	Includes Item #
6000ASK	lip seal and body O-ring	10, 12
6030AS	complete replacement bottom unit	1, 7, 8, 9, 10, 11, 12
6200SGK	sight glass and Baylast seals	3, 4
6000EHK	lock washers and bolts	5, 6
6000SSHK	arms, springs, pins, and reining rings	7, 8, 9, 11
6000ASR	arm lock ring	not illustrated
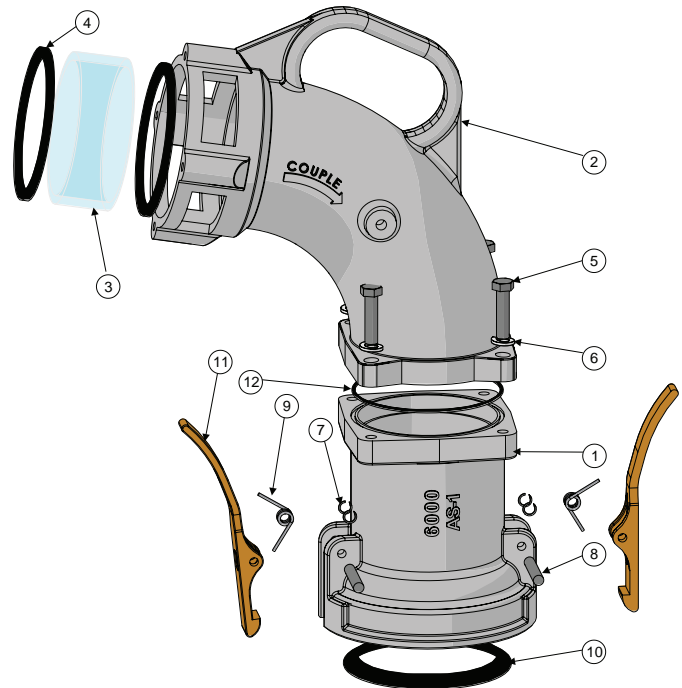
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

VR6100-Series Vapor Elbows

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	cam	use kit VR6100CAK	2
3	lift handle	112138-L	1
4	seal	112245	1
5	O-ring	use kit VR6000-6	1
6	adapter 3"	use kit VR6000-6	1
7	grooved pin .25X1.25 SS	use kit VR6100CAK	2
8	grooved pin .25X3 SS	use kit VR6100CAK	2
9	lock washer	use kit 6000NPHK	4

Repair Kits

Part #	Description	Includes Item #
VR6100CAK	(2) cam and pin kit	2, 7, 8
6000NPHK	adapter kit includes (4) bolts and (4) lock washers	9, 10
112245	seals	4

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com
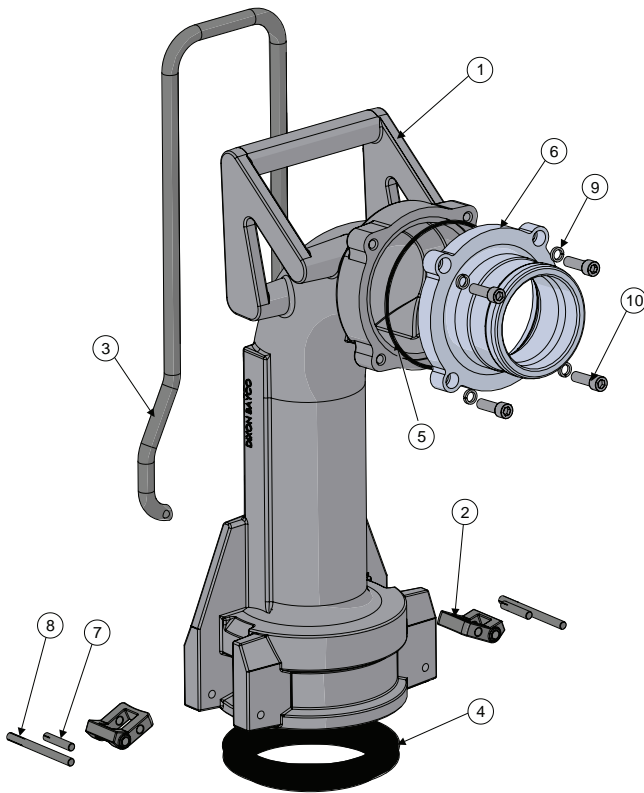
VR6200-Series Vapor Elbows

Bill of Materials

Item #	Description	Part #	Qty
1	bottom body	use kit VR6230	1
2	stem	6200-7	1
3	stem stop pin	PIN5/16X11/4P	1
4	stem link pin	PIN5/16X11/4P	1
5	shoulder bolt pivot	use kit 6200SBK [1]	1
6	SS flat washer	use kit 6200SBK [1]	1
7	wave washer	use kit 6200SBK [1]	1
8	handle pin	PIN5/16X11/4P	1
9	handle and linkage	use kit 6200-15ASSM	1
10	top elbow body	VR6000-1	1
11	poppet bushing	VR6000-3	1
12	outlet O-ring only	110319	1
13	poppet spring	L1110-L2287	1
14	FKM poppet seal	O-RING-AS-334	1
15	poppet valve	VR6000-4	1
16	outlet adapter bolt	use kit 6000NPHK	4
17	outlet adapter with outlet O-ring	VR6000-6	1
18	poppet valve stand off	VR6000-5	1
19	lock washer	use kit 6000NPHK	4
20	bolt	use kit 6000EHK	4
21	lock washer	use kit 6000EHK	4
22	body O-ring	AS156	1
23	grease nipple	NIPPLE/1	1
24	main seal gasket	6000-9	1
25	probe	VR6000-7	1
26	stem spring	112012	1
27	left arm	VR6000-9	1
28	right arm	VR6000-8	1
29	large bushing	use kit 6200BK	2
30	small bushing	use kit 6200BK	2
31	pivot bushing	use kit 6200SHK [2]	1
32	pivot stud	use kit 6200SHK [2]	1
33	pivot lock nut	use kit 6200SHK [2]	1
34	nylon washer	use kit 6200SHK [2]	2
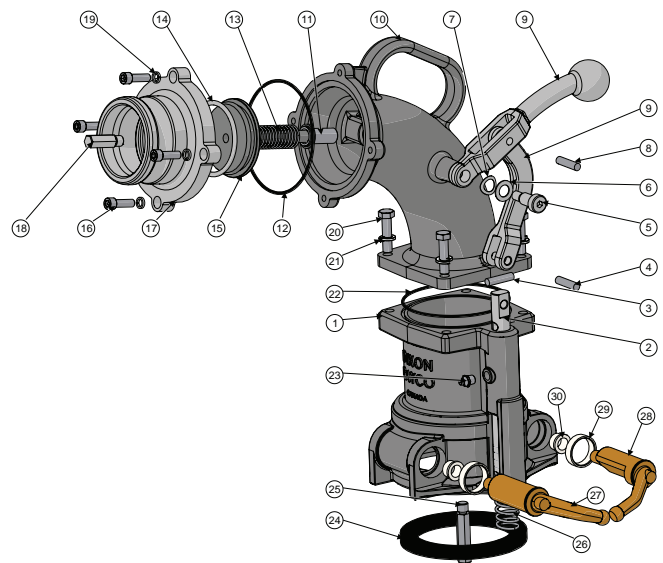
Repair Kits

| Part #	Description	Includes Item #
VR6230	complete bottom unit	1, 2, 3, 22-30
6200BK	small (2) and large (2) bushing kit	29, 30
6000EHK	body lock washers and bolts	20, 21
6200SHK [2]	pivot stud, bushing, washers, and lock nut	31-34
6000NPHK	adapter kit includes (4) bolts and (4) lock washers	16, 19
6200-15ASSM	handle, linkage, and pin	8, 9
6200SBK [1]	shoulder pivot bolt, wave washer, and flat washer	5-7
VR6200ARK	arm and seal repair kit	14, 22, 24, 27-30

[1] items 5 through 7 are for newer version with shoulder bolt pivot only,
[2] for older version with stud and nut pivot use items 31 through 34 instead

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

VR6500-Series Vapor Elbows
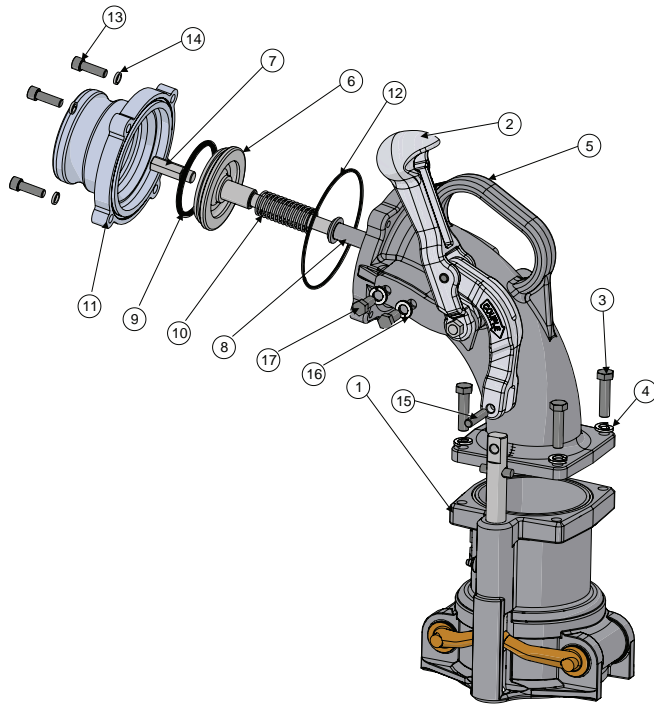
Bill of Materials

Item #	Description	Part #	Qty
1	complete bottom body	VR6230	1
2	handle assembly	use kit VR6500RK1	1
3	body bolt	use kit 6000EHK	4
4	body lock washer	use kit 6000EHK	4
5	elbow body	341784	1
6	poppet valve	VR6000-4	1
7	poppet valve stand off	VR6000-5	1
8	poppet bushing	VR6000-3	1
9	FKM O-ring	O-RING-AS-334	1
10	poppet spring	L1110-L2287	1
11	outlet adapter and O-ring	VR6000-6	1
12	outlet O-ring	110319	1
13	outlet adapter bolt	use kit 6000NPHK	4
14	outlet lock washer	use kit 6000NPHK	4
15	lower lever pin	111728	1
16	side plate lock washer	WASHER.375-SS	2
17	side plate bolt	112242	2

Repair Kits

Part #	Description	Includes Item #
VR6500RK1	handle, linkage, mounting plate, bolt, nut, bushing, and pins	2
6000EHK	(4) body bolts and washers	3, 4
6000NPHK	adapter kit includes (4) bolts and (4) lock washers	13, 14

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

VR6000NP-Series Vapor Elbows

Bill of Materials

Item #	Description	Part #	Qty
1	bottom body	VR6000-2	1
2	small bushing	use kit 6200BK	2
3	large bushing	use kit 6200BK	2
4	handle stem	390842	1
5	main seal gasket	6000-9	1
6	spring	112012	1
7	O-ring	AS156	1
8	grease nipple	NIPPLE/1	1
9	right arm	VR6000-8	1
10	left arm	VR6000-9	1
11	D-handle	6000-8	1
12	D-handle pin	6000-13	1
13	spring pin	6000-12	1
14	probe	VR6000-7	1
15	elbow body	VR6000-1	1
16	outlet adapter and O-ring	VR6000-6	1
17	outlet O-ring (only)	110319	1
18	body lock washer	use kit 6200EHK	4
19	outlet adapter bolt	use kit 6000NPHK	4
20	body hex bolt	use kit 6200EHK	4
21	outlet adapter lock washer	use kit 6000NPHK	4
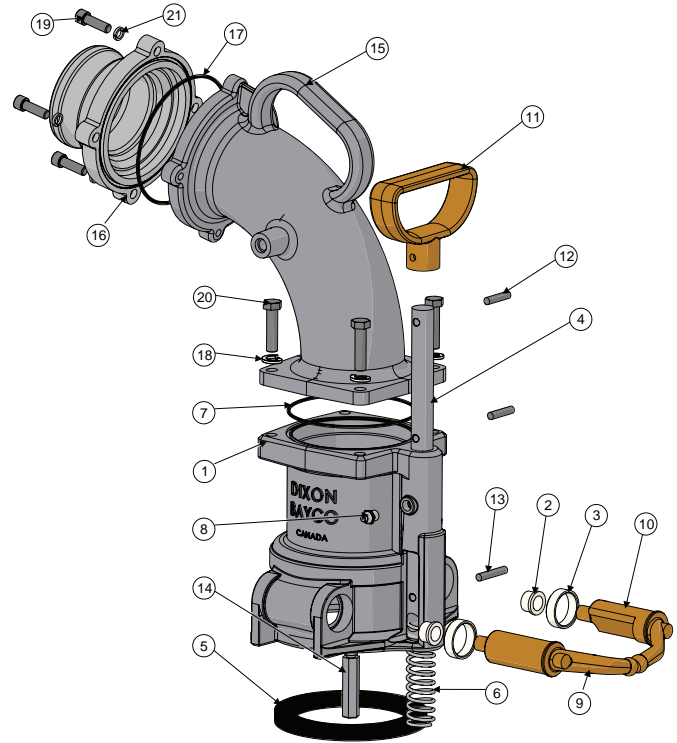
Repair Kits

Part #	Description	Includes Item #
6200BK	small (2) and large (2) large bushing kit	2, 3
6000EHK	body lock washers and bolts	18, 20
6000NPHK	adapter kit includes (4) bolts and (4) lock washers	19, 21
400637	complete bottom unit	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

SA4050AL Caps
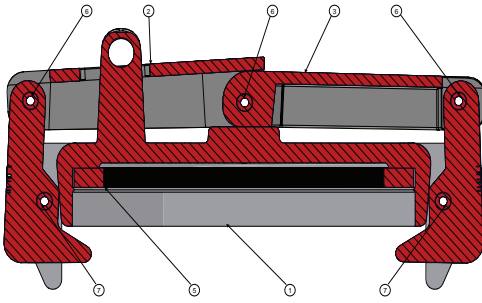
Bill of Materials

Item #	Description	Part #	Qty
1	cap body	---	1
2	top large lever	4050AL	1
3	minor lever	4062AL	1
4	cam arm	4063	2
5	gasket	400-G-BU	1
6	lever pin	4066	3
7	cam arm pin	4068	2

4" Vapor Caps

VR4050AL
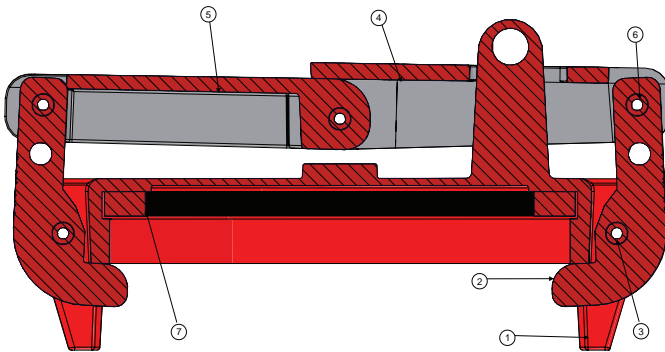
Bill of Materials

Item #	Description	Part #	Qty
1	cap body	---	1
2	cam arm	VR4075	2
3	arm pin	4068	2
4	top large lever	VR4077	1
5	minor lever	VR4076	1
6	lever pin	4066	3
7	NBR gasket	400-G-BU	1

VR4050PL-Series 4" Nylon Vapor Caps
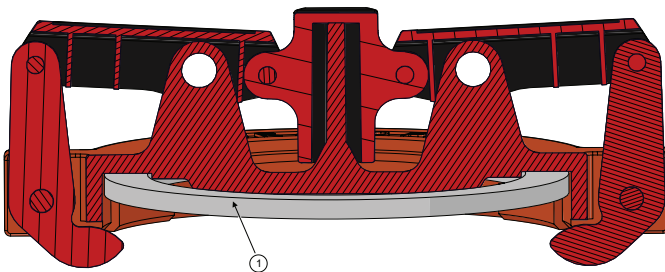
Bill of Materials

Item #	Description	Part #	Qty
1	gasket	VR4050PLRK1	1

TL4070BZ-Series Bronze Caps
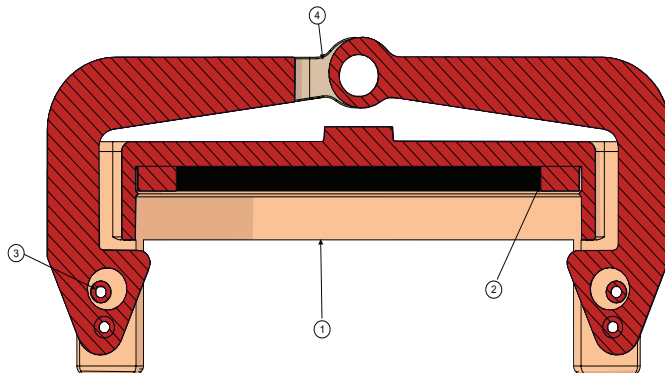
Bill of Materials

Item #	Description	Part #	Qty
1	cap body	---	1
2	NBR gasket	400-G-BU	1
3	arm pin	4068	4
4	arm (lever)	4071	2

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

VR3100-Series 3" Vapor Hose Valves

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	valve	341827	1
3	bushing	VR6000-3	1
4	FKM O-ring	O-RING-AS-334	1
5	valve plate	VR4100-3	1
6	screw	SC5-16NCX.75FSS	1
7	valve spring	SPRING-L5123	1

Repair Kit

Part #	Description	Includes Item #
VR4100RK1	valve, bushing, O-ring, valve plate, screw, and spring	2, 3, 4, 5, 6, 7
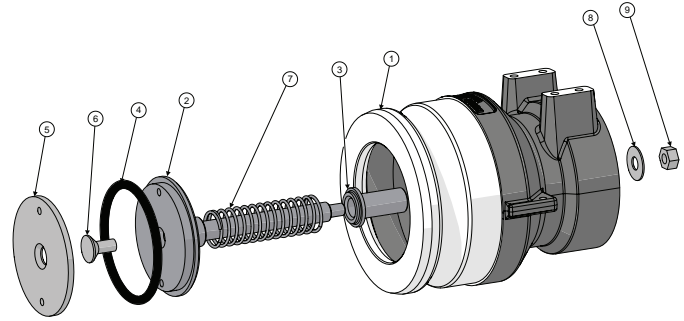
VR4000-Series 4" Vapor Hose Valves

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	valve	VR4000-2	1
3	valve standoff	VR4000-3	1
4	valve O-ring	O-RING-AS339-V	1
5	spring	SPRG/L4432	1
6	bushing	VR6000-3	1
7	sight glass	VR4000-4	2
8	sight glass O-ring	O-RING#132	2
9	retaining ring	RING-VH-225	2
10	plug	110748	1
11	valve plate	VR4000-5	1
12	valve plate screws	SC1024375-SS	2
13	washer	112270	1
14	hex cap screw	112269	1
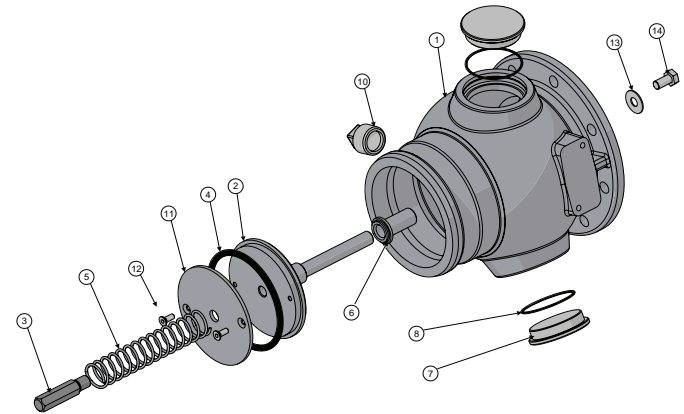
VR4100-Series 4" Vapor Hose Valves

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	valve	341827	1
3	bushing	VR6000-3	1
4	FKM O-ring	O-RING-AS-334	1
5	valve plate	VR4100-3	1
6	screw	SC5-16NCX.75FSS	1
7	valve spring	SPRING-L5123	1
8	washer	112270	1
9	nut	112271	1

Repair Kit

Part #	Description	Includes Item #
VR4100RK1	valve, bushing, O-ring, valve plate, screw, and spring	2, 3, 4, 5, 6, 7
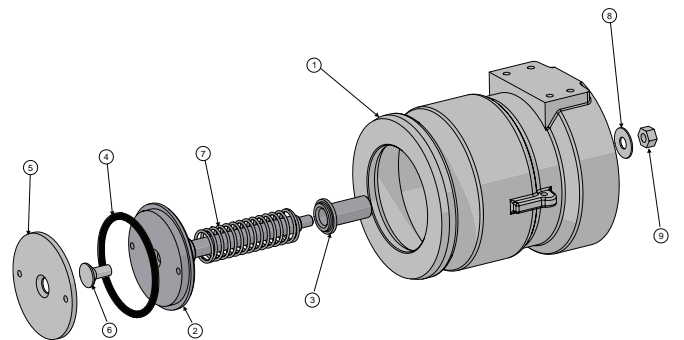
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

VR4100F-Series Vapor Hose Valves
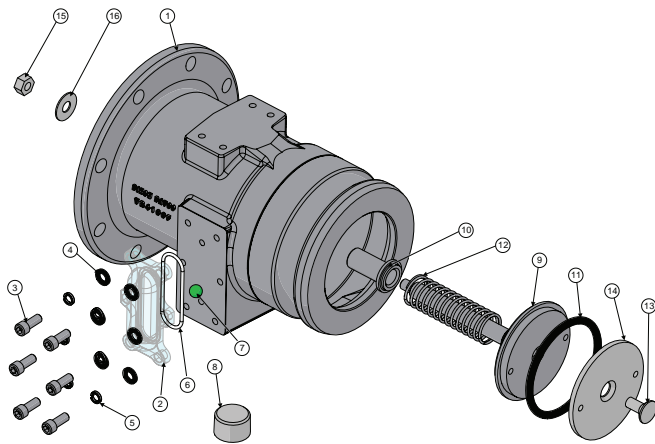
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	sight glass	111575	1
3	sight glass bolts	111570	6
4	sight glass washer	111562	4
5	sight glass lock washer	111569	6
6	sight glass O-ring	111733	1
7	sight glass float ball	111572	1
8	3/4" body plug	112044	1
9	valve	341827	1
10	bushing	VR6000-3	1
11	FKM valve O-ring	O-RING-AS-334	1
12	valve spring	SPRING-L5123	1
13	screw	SC5-16NCX.75FSS	1
14	valve plate	VR4100-3	1
15	washer	112271	1
16	nut	112270	1

Repair Kits

Part #	Description	Includes Item #
5204K8	sight glass, O-ring, float ball	2, 6, 7
5204K12	hex bolts (6), lock washers (6), washers (4) kit	3, 4, 5

VR4086-Series Vapor Adapters
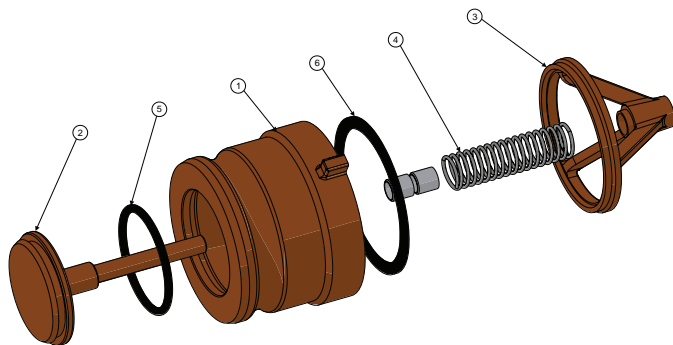
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	valve	340331	1
3	valve spider	340304	1
4	spring	110892	1
5	FKM O-ring	O-RING-AS-334	1
6	body gasket	G4000AS	1

VR4100F-SFI-Series Vapor Hose Couplers
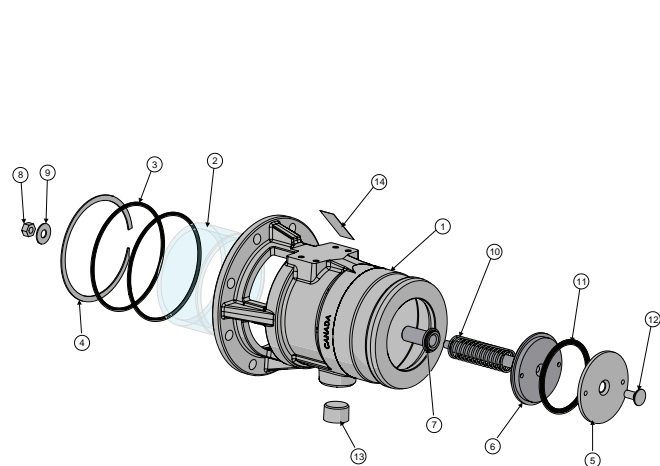
Bill of Materials

Item #	Description	Part #	Qty
1	body	341832	1
2	sight glass	391855	1
3	O-ring	112280	2
4	retaining ring	112281	1
5	plate	390663	1
6	valve	341827	1
7	bushing	390146	1
8	nut	112271	1
9	washer	112270	1
10	spring	111197	1
11	O-ring FKM	110691	1
12	screw	110842	1
13	plug	112044	1
14	warning label	112205	1

Part #	Description	Includes Item #
VR4100F-SFI	vapor return valve TTMA flange with in-line sight glass	2, 3, 4

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

4020-CVR-AL Vapor Hose Couplers

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	pin	325-P	2
3	cam arm with ring	300-HR-BR	2
4	gasket 4"	400-G-BU	1
5	probe	VR6000-7	1
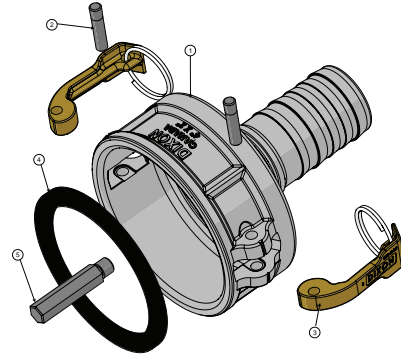
VR4030CS-AL Vapor Hose Couplers

4" x 3" with poppet

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	cam arm and ring	300-HRP-BR	2
3	cam pin	300-HRP-BR	2
4	NBR coupler gasket	400-G-BU	1
5	probe	VR6000-7	1
6	FKM valve O-ring	O-RING-AS-334	1
7	spring	SPRG/L4238	1
8	bushing	VR6000-3	1
9	valve	VR4030CS-1	1
10	valve plate	VR4030CS-4	1
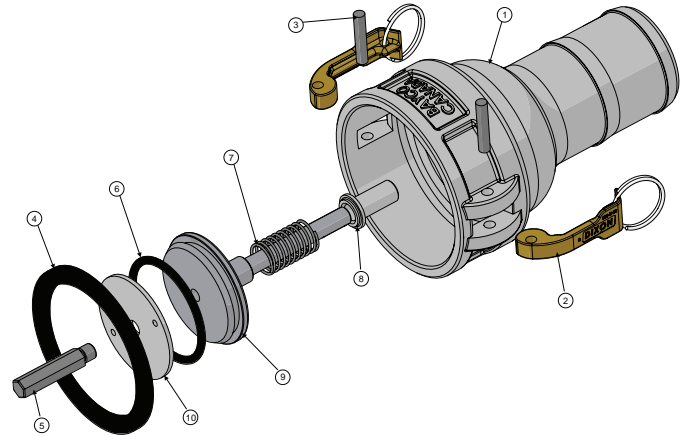
Repair Kit

Part #	Description	Includes Item #
VAC4030RK	replacement cam arms, rings, pins, coupler gasket, and valve O-ring	2, 3, 4, 6

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

VR4040CS-AL and VR4040CS-4MNPT
Vapor Hose Couplers
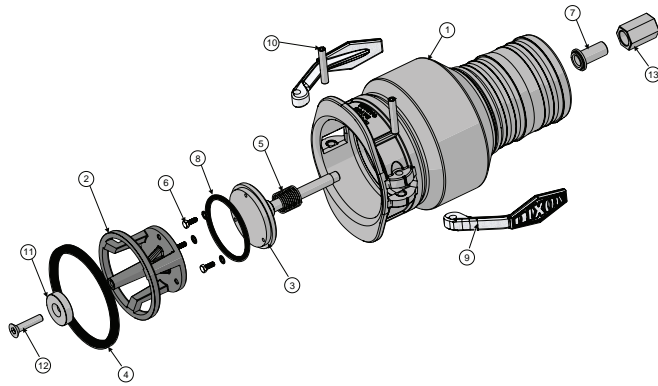
Bill of Materials

Item #	Description	Part #	Qty	
			AL	**MNPT**
1	body	341818	1	---
		341870	---	1
2	cage	341819	1	1
3	poppet	341820	1	1
4	NBR gasket	112262	1	1
5	spring	112263	1	1
6	machine screw with washer	112506/112507	3	3
7	bushing	390146	1	1
8	O-ring FKM	110691	1	1
9	paddle arm	40215SS	2	2
10	cam arm pin	40218SS	2	2
11	button	391860	1	1
12	poppet stop	391868	1	1
13	screw	112416	1	1
14	lock washer	111706	3	3

Repair Kits

Part #	Description	Includes Item #
VR4040CSRK1	seal repair kit	4, 6, 8
VR4040CSRK2	cam arm repair kit	9, 10
VR4040CSRK3	internal repair kit	2, 3, 5, 6, 7, 8, 11, 12, 13
VR4040CSB	vapor coupler body complete kit	
VR4030-AL45	3" x 45° hose shank kit	
VR4040-AL45	4" x 45° hose shank kit	
VR4040-ALS45	4" x 45° hose shank kit with swivel	

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

VR4030CS-NP Vapor Hose Couplers

4" x 3" without Poppet

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	cam arm and ring	300-HRP-BR	2
3	cam arm pin	300-HRP-BR	2
4	NBR coupler gasket	400-G-BU	1
5	probe	VR4030CS-3	1
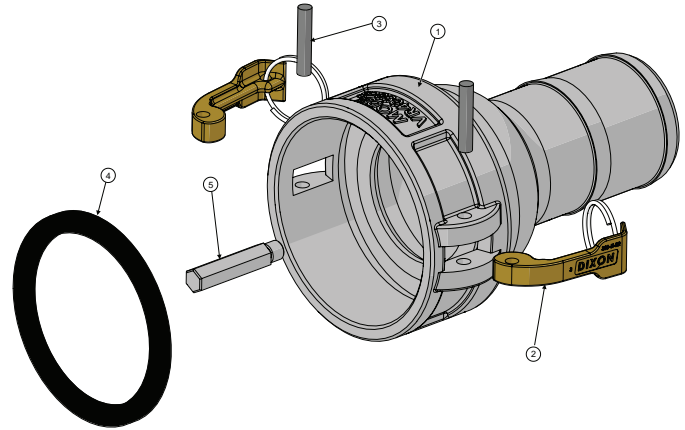
VRC3000AL Vapor Hose Couplers

3" x 3"

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	probe	L4217	1
3	cam arm and ring	300-HRP-BR	2
4	NBR coupler gasket	300-G-BU	1
5	cam arm pin	300-HRP-BR	2

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com
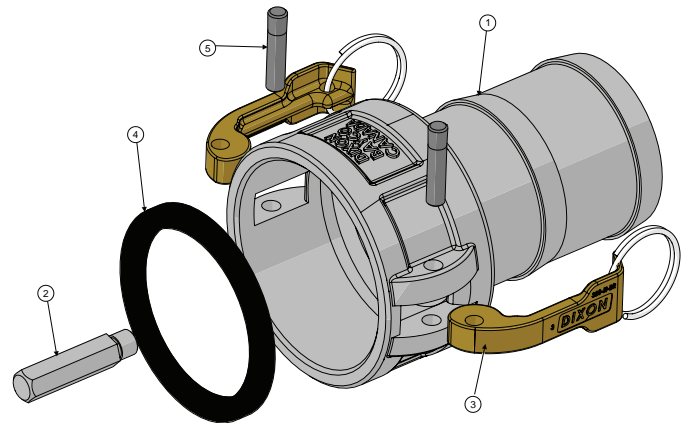
VR6030SQ-Series Sequential Vapor Vents

Bill of Materials
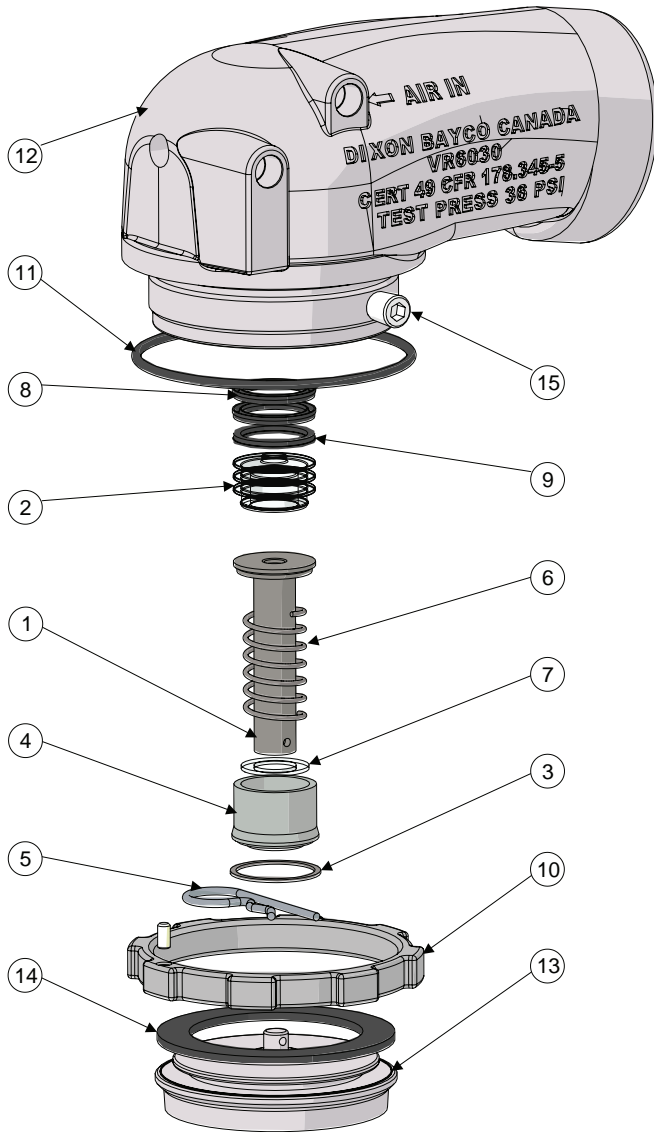
Item #	Description	Part #	Qty
1	stem	400636	1
2	piston	use kit VR6030RK2	1
3	retaining ring	111681	1
4	bearing	390822	1
5	hitch pin	111680	1
6	spring	111679	1
7	bearing seal washer	111683	1
8	top lip seal	111686	2
9	bottom lip seal	111687	1
10A	mounting ring	390826	1
10B	mounting ring set screw	111693	1
11	O-ring	111692	1
12	body	---	1
13	poppet	341643	1
14A	Baylast™ poppet gasket	VR6030RK3	1
14B	FKM poppet gasket	VR6030RKV3	1
15	pipe plug	111694	1

Repair Kits

Part #	Description	Includes Item #
VR6030RK1	seal kit with Baylast poppet seal	2, 3, 5, 8, 9, 11, 14A
VR6030RKV1	seal kit with FKM poppet seal	2, 3, 5, 8, 9, 11, 14B
VR6030RK2	piston assembly	2, 8, 9
VR6030RK3	Baylast poppet gasket	14
VR6030RKV3	FKM poppet gasket	14

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

VR6035SQ-Series Sequential Vapor Vents

Bill of Materials

Item #	Description	Part #	Qty
1	stem assembly	400636	1
2	piston	use kit VR6030RK2	1
3	retaining ring	111681	1
4	cotter pin	111680	1
5	spring	111679	1
6	bearing seal washer	111683	1
7	lip seal	111686	2
8	lip seal	111687	1
9A	Baylast™ poppet gasket	use kit VR6035RK3	1
9B	FKM poppet gasket	use kit VR6035RKV3	1
10	poppet	341641	1
11	hex bolt	use kit VR6035RK4	8
12	body gasket	111689	1
13	lock washer	use kit VR6035RK4	8
14	stem bearing	390822	1
15	body	---	1

Repair Kits

Part #	Description	Includes Item #
VR6035RK1	seal kit with Baylast poppet seal	2, 3, 4, 7, 8, 9A, 12
VR6035RKV1	seal kit with FKM poppet seal	2, 3, 4, 7, 8, 9B, 12
VR6035RK2	piston assembly	2, 7, 8
VR6035RK3	Baylast poppet gasket	9A
VR6035RKV3	FKM poppet gasket	9B
VR6035RK4	(8) bolts and lock washers	11, 13

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com
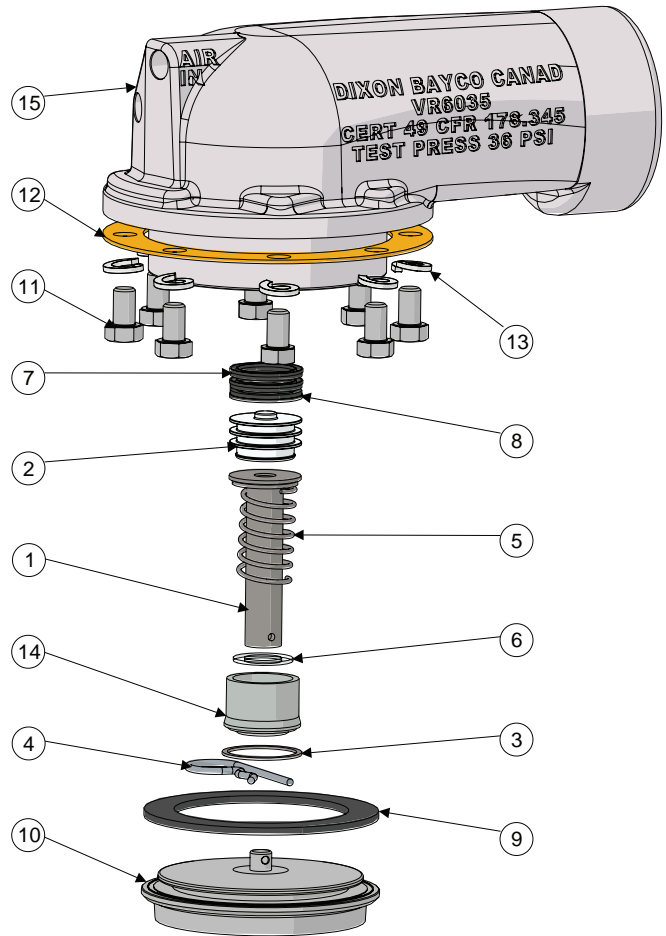
VRP3500 and VRP3600-Series Outbreathing Vents
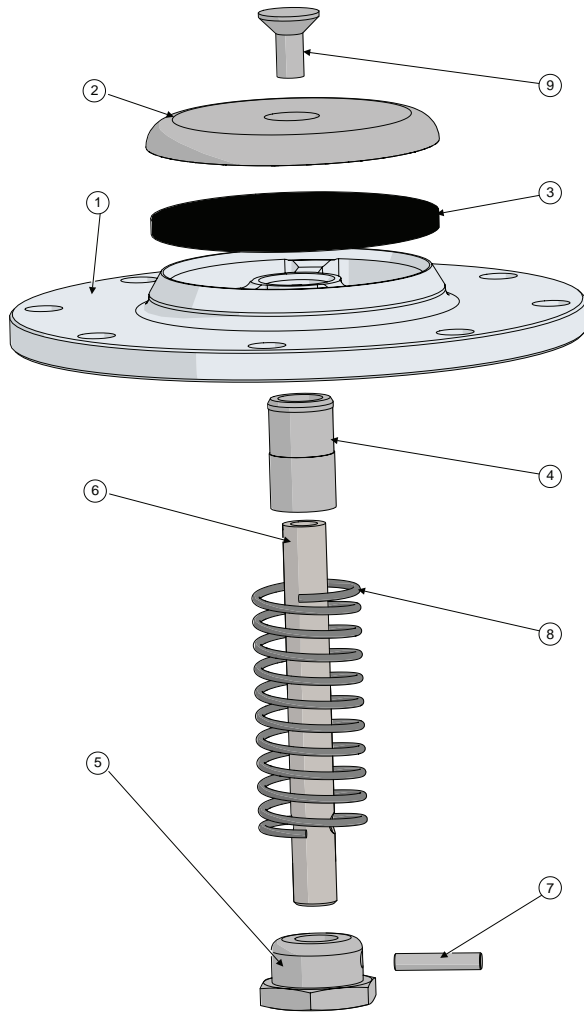
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	gasket base	VRP3500-2	1
3	gasket	VRV3501-3	1
4	bushing	VRP3500-4	1
5	spring retainer	VRV3501-5	1
6A	shaft for VRP3500	VRP3501-6	1
6B	shaft for VRP3600	390552	1
7	shaft pin	110717	1
8	spring	SPRG-L4506	1
9	screw	SC5-16NCX.75FSS	1

VRV3501-Series Inbreathing Vents
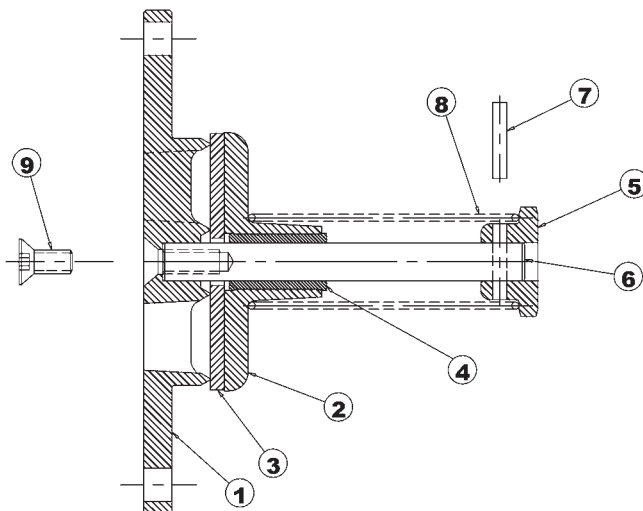
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	gasket base	VRV3501-2	1
3	gasket	VRV3501-3	1
4	bushing	VRV3501-4	1
5	spring retainer	VRV3501-5	1
6	shaft	VRV3501-6	1
7	pin	110717	1
8	spring	SPRG-L4506	1
9	screw	SC5-16NCX.75FSS	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

TDF-Series Tube Doors

Repair Kits

Part #	Description
TDF68RK	6" and 8" repair kit, includes stainless steel spring, bushings, and pin
TDF7RK	7" repair kit, includes stainless steel spring, bushings, pin, and washer
SPRG-A4630	stainless steel spring only

5000AIR-Series Roller Ball End Air Interlock Valves

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	piston	use kit 5000AIRSK	1
3	end plug	use kit 5000AIRSK	1
4	NBR O-ring	use kit 5000AIRSK	3
5	spring	use kit 5000AIRSK	1
6	urethane wiper	use kit 5000AIRSK	1
7	retaining ring	110755	1
8	mounting bolts	use kit 5000AIHK	2
9	lock washer	use kit 5000AIHK	2
10	roller ball assembly	5000AIRRK1	1
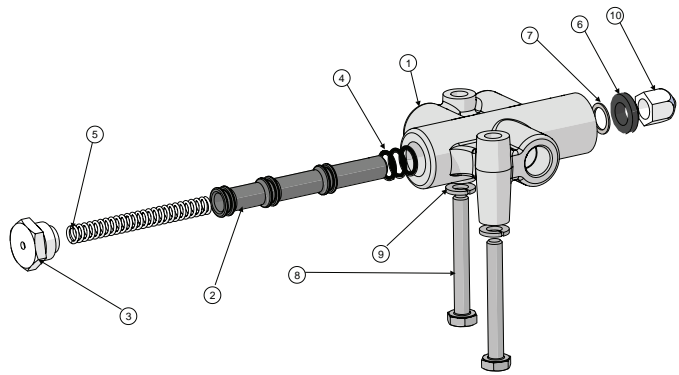
Repair Kits

Part #	Description	Includes Item #
5000AIHK	mounting bolts and lock washers	8, 9
5000AIRSK	piston and seal kit	2, 3, 4, 5, 6
5000AIRRK1	roller ball	10

5000AIRHD-Series Heavy Duty Roller Ball End Air Interlock Valves

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	end plug	391848	1
3	wiper	112260	1
4	retaining ring	112261	1
5	spring	110897	1
6	lock washer	110928	2
7	mounting bolts	111196	2
8	O-ring	111SS3	3
9	ball	100202	1
10	bearing	390104	1
11	piston	391858	1
12	roller head cap	390105	1
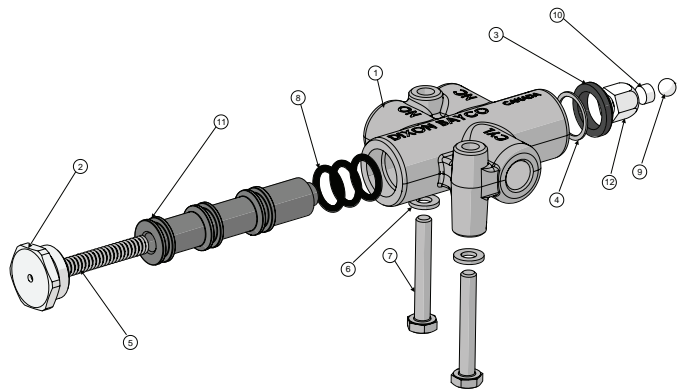
Repair Kits

Part #	Description	Includes Item #
5000AIHK	mounting bolts and lock washers	6, 7
5000AIRHDSK	piston and seal kit	2, 3, 5, 8, 11
5000AIRRK1	roller ball	9

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5000AI-Series Button Plunger End Air Interlock Valves
5000AI, 5000AIS and AIST

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	piston	use kit 5000AISK	1
3A	end plug (5000AI, 5000AIST)	use kit 5000AISK	1
3B	electronic switch kit (not illustrated, for 5000AIS)	5000S	1
4	NBR O-ring	use kit 5000AISK	3
5	spring	use kit 5000AISK	1
6	urethane wiper	use kit 5000AISK	1
7	retaining ring	RING-WH-50	1
8	mounting bolt	use kit 5000AIHK	2
9	lock washer	use kit 5000AIHK	2
10	plunger nut	NUT.25HX-SS	1
11A	1" SS plunger button (5000AI)	use kit 5000AIRK1	1
11B	1-1/2" SS plunger button (5000AIST)	use kit 5000ST	1

Repair Kits

Part #	Description	Includes Item #
5000AIHK	mounting bolt, lock washer	8, 9
5000AISK	piston, end plug, spring, O-ring, rod wiper	2, 3A, 4, 5, 6
5000AIRK1	plunger end, nut	10, 11A
5000ST	1-1/2" plunger button and nut	10, 11B
5000S	electronic switch attachment kit	3B
5000AISK1	seal kit O-ring wiper only	4, 6
5000AIRK2	plunger button extension and sleeve kit	---
112024	NBR O-ring	4

5000AIHD-Series Heavy Duty Air Interlock Valve

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	piston	use kit 5000AIHDSK	1
3	end plug	use kit 5000AIHDSK	1
4	O-ring	use kit 5000AIHDSK	3
5	spring	use kit 5000AIHDSK	1
6	wiper	use kit 5000AIHDSK	1
7	retaining ring	112251	1
8	mounting bolts	use kit 5000AIHK	2
9	lock washer	use kit 5000AIHK	2
10	nut	390909	1
11A	1" plunger end	use kit 5000AIHDRK1	1
11B	1-1/2" plunger end	use kit 5000STHD	1

Repair Kits

Part #	Description	Includes Item #
5000AIHK	mounting bolts and lock washers	8, 9
5000AIHDSK	piston and seal kit	2, 3, 4, 5, 6
5000AIHDSK1	seal kit O-ring and wiper only	4, 6
5000AIHDRK1	1" plunger assembly	10, 11A
5000STHD	1-1/2" plunger assembly	10, 11B
111553	O-ring	4

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5000AIV-Series Paddle End Air Interlock Valves

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	piston	use kit 5000AISK	1
3	end plug	use kit 5000AISK	1
4	NBR O-ring	use kit 5000AISK	3
5	spring	use kit 5000AISK	1
6	urethane wiper	use kit 5000AISK	1
7	retaining ring	110755	1
8	mounting bolt	use kit 5000AIHK	2
9	lock washer	use kit 5000AIHK	2
10	paddle nut	NUT.25HX-SS	1
11	paddle plunger	5000AI-2	1
12	paddle plunger stud	5000AI-5	1
13	paddle plunger lock nut	112370	1
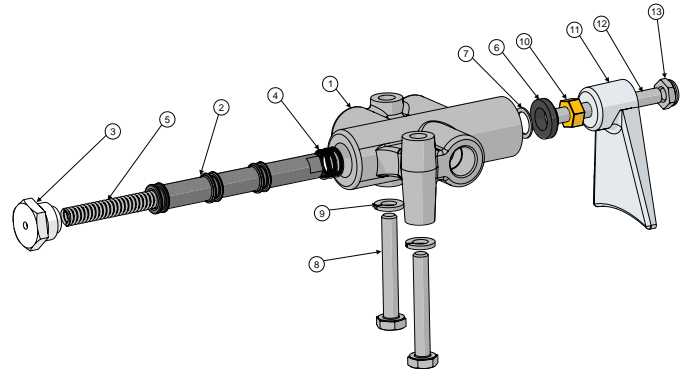
Repair Kits

Part #	Description	Includes Item #
5000AIHK	mounting bolt, lock washer	8, 9
5000AISK	piston, end plug, spring, O-ring, rod wiper	2, 3, 4, 5, 6

5000AIVHD-Series Heavy Duty Paddle End Air Interlock Valves

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	piston	use kit 5000AIHDSK	1
3	end plug	use kit 5000AIHDSK	1
4	O-ring	use kit 5000AIHDSK	1
5	spring	use kit 5000AIHDSK	1
6	wiper	use kit 5000AIHDSK	1
7	retaining ring	WH-77	1
8	mounting bolts	use kit 5000AIHK	2
9	lock washer	use kit 5000AIHK	2
10	nut	390909	3
11	paddle end	341142	1
12	stud	390910	1
13	lock nut	112370	1
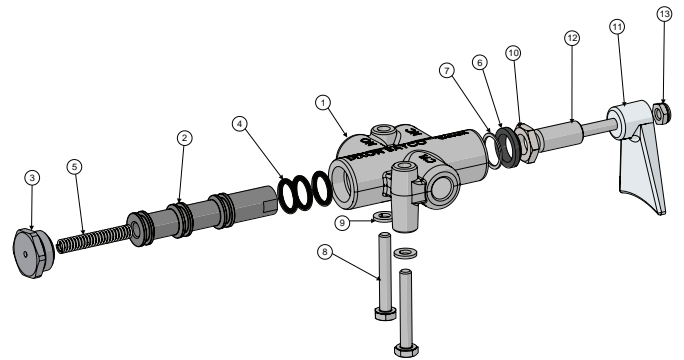
Repair Kits

Part #	Description	Includes Item #
5000AIHK	mounting bolt, lock washer	8, 9
5000AIHDSK	piston and seal kit	2, 3, 4, 5, 6

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5006AIHD-Series Heavy Duty Air Interlock Valves

Bill of Materials
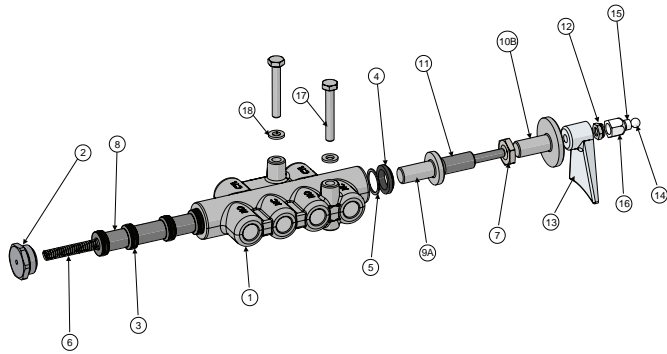
Item #	Description	5006AIHD	5006AISTHD	5006AIVHD	5006AIRHD
1	body	1	1	1	1
2	end plug	1	1	1	1
3	O-ring	5	5	5	5
4	wiper	1	1	1	1
5	retaining ring	1	1	1	1
6	spring	1	1	1	1
7	hex jam nut	1	1	1	1
8A	piston	1	1	1	---
8B	piston for air	---	---	---	1
9A	1" plunger end	1	---	---	---
10B	1-1/2" plunger end	---	1	---	---
11	paddle plunger stud	---	---	1	---
12	nylon locknut	---	---	1	---
13	paddle plunger	---	---	1	---
14	ball	---	---	---	1
15	bearing	---	---	---	1
16	roller head cap	---	---	---	1
17	mounting bolt	2	2	2	2
18	lock washer	2	2	2	2

Repair Kits

Part #	Description	Includes Item #
5006AIHDSK	piston and seal kit for 5006AIHD and 5006AIVHD	2, 3, 4, 6, 8A
5006AIRHDSK	piston and seal kit for 5006AIRHD	2, 3, 4, 6, 8B

400-DC-ALPH Dust Caps with Handle
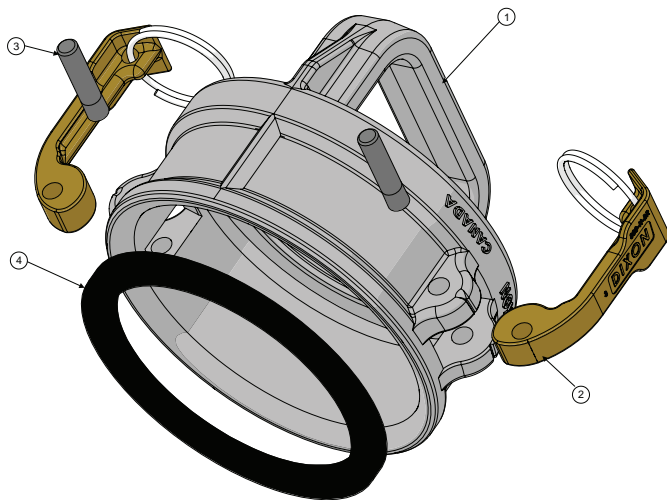
Bill of Materials

Item #	Description	Part #	Qty
1	dust cap with handle	400-DC-ALPH	1
2	cam arm with ring	300-HR-BR	2
3	pin	325-P	2
4	4" gasket	400-G-BU	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

5900-Series Safety Breakaway Couplings
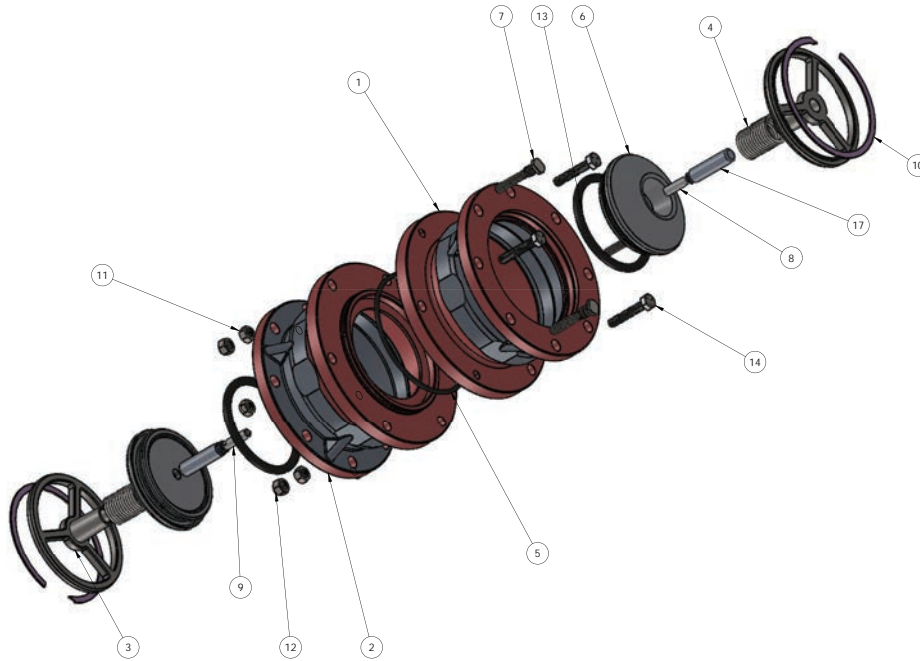
Repair Kits

Part #	Description	Includes Item #
5900-KIT-4BN	Baylast™ seal kit for 4" 5900 breakaway	5A, 13A
5900-KIT-4TV	PTFE/FKM seal kit for 4" 5900 breakaway	5B, 13B
5900-KIT-4VG	FKM-GLFT seal kit for 4" 5900 breakaway	5C, 13C
5900-KIT-B4A	repl break bolts for 5900-Series breakaway	7, 11, 12

Bill of Materials

Item #	Description	Part #	Qty
1	groove coupler	40647XX-02	1
2	flange coupler	40647XX-01	1
3	spider	40625SS	2
4	spring	40629SS	2
5A	Baylast O-ring	40634BN	1
5B	PTFE/FKM O-ring	40634TV	1
5C	FKM-GFLT O-ring	40634VG	1
6	poppet	40648XX	2
7	break bolt	40636SS	3
8	poppet spacer	40632SS	1
9	poppet spacer	40631SS	1
10	snap ring	40628ST	2
11	5/16"-18 nut	40638SS	6
12	5/16"-18 nylock nut	40639SS	3
13A	Baylast O-ring	40633BN	2
13B	PTFE/FKM O-ring	40633TV	2
13C	FKM-GFLT O-ring	40633VG	2
14	5/16"-18 X 1.75" HHCS	40637ST	3
15	drive screw	30702SS	2
16	name plate	40635SS	1
17	poppet stem	40678AL	2

DBA Cam & Groove Dry Disconnects
Aluminum and Stainless Adapters
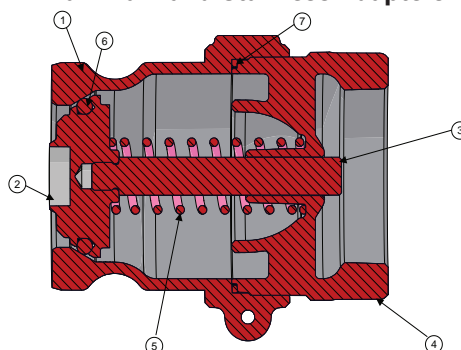
Bill of Materials

1-1/2" Aluminum Adapter (DBA6x), Zinc Adapter (DBA1x) DBA1x-150, DBA6x-150, and DBA1x-1520

Item #	Description	Part #	Qty
1A	aluminum adapter body (DBA6x-150)	40129AL	1
1B	zinc adapter body (DBA1x-150 and DBA1x-1520)	40129ZA	1
2	poppet	40130AL	1
3A	stem (DBA1x-150 and DBA1x-1520)	40133BR	1
3B	stem (for DBA6x-150)	40133SS-001	1
4A	thread end body	40131AL	1
4B	thread end body (for DBA1x1520)	40303AL	1
5	poppet spring	40132SS	1
6A	poppet O-ring NBR	use kit DBAK1-150	1
6B	poppet O-ring FKM	use kit DBAK2-150	1
6C	poppet O-ring PTFE/silicone	use kit DBAK3-150	1
6D	poppet O-ring EPDM	use kit DBAK4-150	1
6E	poppet O-ring FFKM	use kit DBAK6-150	1
6F	poppet O-ring PTFE/FKM	use kit DBAK7-150	1
7A	body O-ring PTFE	use kit DBAK1-150	1
7B	body O-ring FKM	use kit DBAK2-150	1
7C	body O-ring PTFE	use kit DBAK3-150, DBAK6-150 or DBAK7-150	1
7D	body O-ring EPDM	use kit DBAK4-150	1

1-1/2" Stainless Adapter DBA7x-150

Item #	Description	Part #	Qty
1	stainless adapter body	40129SS	1
2	poppet	40130SS	1
3	stem	40133SS-002	1
4	thread end body	40131SS	1
5	poppet spring	40132SS	1
6A	poppet O-ring NBR	use kit DBAK1-150	1
6B	poppet O-ring FKM	use kit DBAK2-150	1
6C	poppet O-ring PTFE/silicone	use kit DBAK3-150	1
6D	poppet O-ring EPDM	use kit DBAK4-150	1
6E	poppet O-ring FFKM	use kit DBAK6-150	1
6F	poppet O-ring PTFE/FKM	use kit DBAK7-150	1
7A	body O-ring PTFE	use kit DBAK1-150	1
7B	body O-ring FKM	use kit DBAK2-150	1
7C	body O-ring PTFE	use kit DBAK3-150, DBAK6-150 or DBAK7-150	1
7D	body O-ring EPDM	use kit DBAK4-150	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBA Cam & Groove Dry Disconnects
Aluminum and Stainless Adapters
Bill of Materials

2" Aluminum Adapter (DBA6x), Zinc Adapter (DBA1x)
DBA1x-200, DBA6x-200

Item #	Description	Part #	Qty
1A	aluminum adapter body (DBA6x-200)	40001AL	1
1B	zinc adapter body (DBA1x-200)	40001ZA	1
2	poppet	40002AL	1
3A	stem (for DBA1x-200)	40005BR	1
3B	stem (for DBA6x-200)	40005SS-001	1
4	thread end body	40003AL	1
5	poppet spring	40004SS	1
6A	poppet O-ring NBR	use kit DBAK1-200	1
6B	poppet O-ring FKM	use kit DBAK2-200	1
6C	poppet O-ring PTFE/silicone	use kit DBAK3-200	1
6D	poppet O-ring EPDM	use kit DBAK4-200	1
6E	poppet O-ring FFKM	use kit DBAK6-200	1
6F	poppet O-ring PTFE/FKM	use kit DBAK7-200	1
7A	body O-ring PTFE	use kit DBAK1-200	1
7B	body O-ring FKM	use kit DBAK2-200	1
7C	body O-ring PTFE	use kit DBAK3-200, DBAK6-200 or DBAK7-200	1
7D	body O-ring EPDM	use kit DBAK4-200	1

2" Stainless Adapter
DBA7x-200

Item #	Description	Part #	Qty
1	stainless adapter body	40001SS	1
2	poppet	40002SS	1
3	stem	40005SS-002	1
4	thread end body	40003SS	1
5	poppet spring	40004SS	1
6A	poppet O-ring NBR	use kit DBAK1-200	1
6B	poppet O-ring FKM	use kit DBAK2-200	1
6C	poppet O-ring PTFE/silicone	use kit DBAK3-200	1
6D	poppet O-ring EPDM	use kit DBAK4-200	1
6E	poppet O-ring FFKM	use kit DBAK6-200	1
6F	poppet O-ring PTFE/FKM	use kit DBAK7-200	1
7A	body O-ring PTFE	use kit DBAK1-200	1
7B	body O-ring FKM	use kit DBAK2-200	1
7C	body O-ring PTFE	use kit DBAK3-200, DBAK6-200 or DBAK7-200	1
7D	body O-ring EPDM	use kit DBAK4-200	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBA Cam & Groove Dry Disconnects
Aluminum and Stainless Adapters
Bill of Materials

3" Aluminum Adapter (DBA6x), Zinc Adapter (DBA1x)
DBA1x-300, DBA6x-300

Item #	Description	Part #	Qty
1	aluminum adapter body	40180AL	1
1B	zinc adapter body	40180ZA	1
2	poppet	40182AL	1
3	stem	40183BR	1
4	thread end body	40181AL	1
5	poppet spring	40184SS	1
6A	poppet O-ring NBR	use kit DBAK1-300	1
6B	poppet O-ring FKM	use kit DBAK2-300	1
6C	poppet O-ring PTFE/silicone	use kit DBAK3-300	1
6D	poppet O-ring EPDM	use kit DBAK4-300	1
6E	poppet O-ring FFKM	use kit DBAK6-300	1
6F	poppet O-ring PTFE/FKM	use kit DBAK7-300	1
6G	poppet O-ring FKM-B	use kit DBAK9-300	1
7A	body O-ring PTFE	use kit DBAK1-300	1
7B	body O-ring FKM	use kit DBAK2-300	1
7C	body O-ring PTFE	use kit DBAK3-300, DBAK6-300 or DBAK7-300	1
7D	body O-ring EPDM	use kit DBAK4-300	1
7E	body O-ring FKM-B	use kit DBAK9-300	1

3" Stainless Adapter
DBA7x-300

Item #	Description	Part #	Qty
1	stainless adapter body	40180SS	1
2	poppet	40182SS	1
3	stem	40183SS	1
4	thread end body	40181SS	1
5	poppet spring	40184SS	1
6A	poppet O-ring NBR	use kit DBAK1-300	1
6B	poppet O-ring FKM	use kit DBAK2-300	1
6C	poppet O-ring PTFE/silicone	use kit DBAK3-300	1
6D	poppet O-ring EPDM	use kit DBAK4-300	1
6E	poppet O-ring FFKM	use kit DBAK6-300	1
6F	poppet O-ring PTFE/FKM	use kit DBAK7-300	1
6G	poppet O-ring FKM-B	use kit DBAK9-300	1
7A	body O-ring PTFE	use kit DBAK1-300	1
7B	body O-ring FKM	use kit DBAK2-300	1
7C	body O-ring PTFE	use kit DBAK3-300	1
7D	body O-ring EPDM	use kit DBAK4-300	1
7E	body O-ring FKM-B	use kit DBAK9-300	1

Repair Kits

Part #	Description	Includes Item #
DBAK1-150	1-1/2" NBR seals	6A, 7A
DBAK2-150	1-1/2" FKM seals	6B, 7B
DBAK3-150	1-1/2" PTFE/silicone seals	6C, 7C
DBAK4-150	1-1/2" EPDM seals	6D, 7D
DBAK6-150	1-1/2" PTFE/FFKM seals	6E, 7C
DBAK7-150	1-1/2" PTFE/FKM seals	6F, 7C
DBAK1-200	2" NBR seals	6A, 7A
DBAK2-200	2" FKM seals	6B, 7B
DBAK3-200	2" PTFE/silicone seals	6C, 7C
DBAK4-200	2" EPDM seals	6D, 7D
DBAK6-200	2" PTFE/FFKM seals	6E, 7C
DBAK7-200	2" PTFE/FKM seals	6F, 7C
DBAK1-300	3" PTFE seals	6A, 7A
DBAK2-300	3" FKM seals	6B, 7B
DBAK3-300	3" PTFE/silicone seals	6C, 7C
DBAK4-300	3" EPDM seals	6D, 7D
DBAK6-300	3" PTFE/FFKM seals	6E, 7C
DBAK7-300	3" PTFE/FKM seals	6F, 7C
DBAK9-300	3" FKM-B seals	6G, 7E

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBVA Cam & Groove Dry Disconnects
Stainless Vapor Adapter
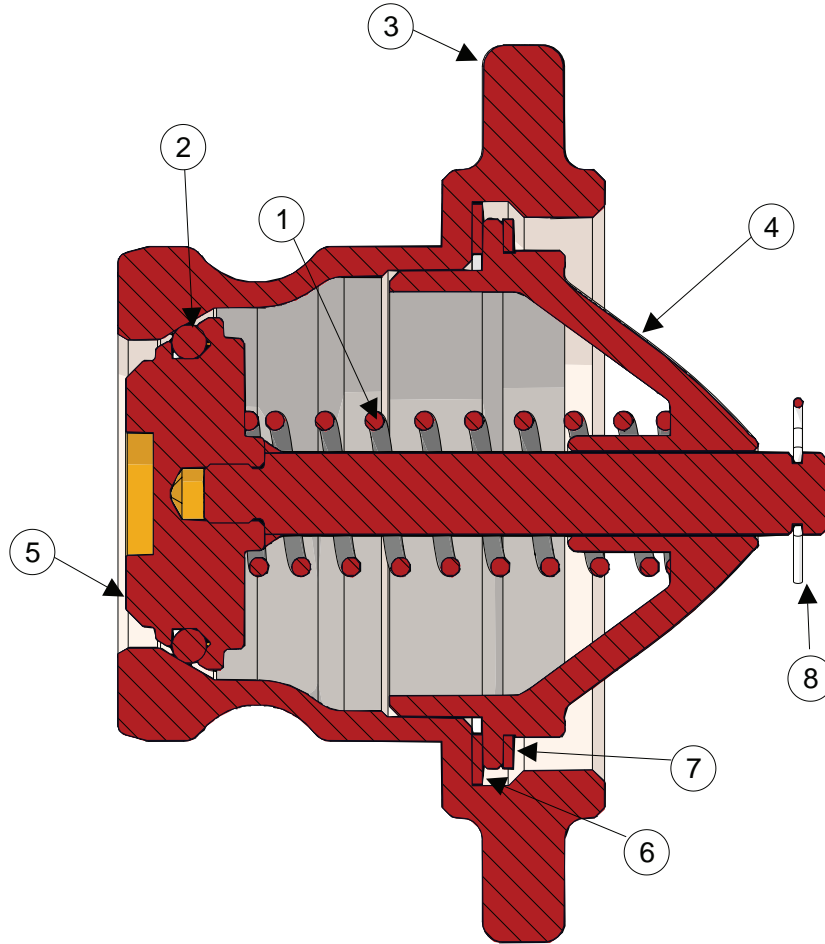
2" x 3" Stainless Vapor Adapter
Bill of Materials DBAV73-200

Item #	Description	Part #	Qty
1	spring	40004SS	1
2	poppet O-ring PTFE/silicone	40006TS	1
3	adapter body	not available	---
4	bridge	40175SS	1
5	poppet assembly	40187SSSS	1
6	large body gasket	40190TF	1
7	small body gasket	40191TF	1
8	poppet clip	40192SS	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBAF Cam & Groove Dry Disconnects
Stainless Flange Adapters
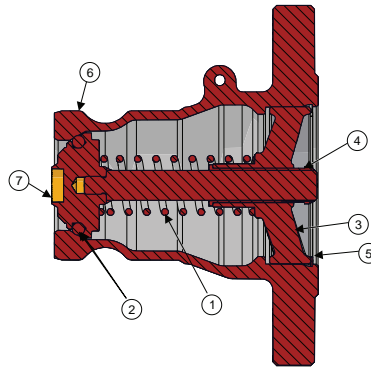
2" Flange x 1-1/2" Stainless Adapter
Bill of Materials DBAF7x-1520

Item #	Description	Part #	Qty
1	spring	40004SS	1
2A	poppet O-ring NBR	40134BN	1
2B	poppet O-ring FKM	40134VI	1
2C	poppet O-ring PTFE/silicone	40134TS	1
2D	poppet O-ring EPDM	40134EP	1
2E	poppet O-ring FFKM	40134KR	1
3	bridge	40341SS	1
4	bearing	40343TF	1
5	retaining ring	40344SS	1
6	body	---	1
7	poppet assembly	40347SSSS	1

2" Flange x 2" Stainless Adapter
Bill of Materials DBAF7x-200

Item #	Description	Part #	Qty
1	spring	40004SS	1
2A	poppet O-ring NBR	40006BN	1
2B	poppet O-ring FKM	40006VI	1
2C	poppet O-ring PTFE/silicone	40006TS	1
2D	poppet O-ring EPDM	40006EP	1
2E	poppet O-ring FFKM	40006KR	1
3	bridge	40341SS	1
4	bearing	40343TF	1
5	retaining ring	40344SS	1
6	body	---	1
7	poppet assembly	40342SSSS	1

3" Flange x 3" Stainless Adapter
Bill of Materials DBAF7x-300

Item #	Description	Part #	Qty
1	spring	40184SS	1
2A	poppet O-ring NBR	40185BN	1
2B	poppet O-ring FKM	40185VI	1
2C	poppet O-ring PTFE/silicone	40185TS	1
2D	poppet O-ring EPDM	40185EP	1
2E	poppet O-ring FFKM	40185KR	1
3	bridge	40360SS	1
4	bearing	40362TF	1
5	retaining ring	40361SS	1
6	body	---	1
7	poppet assembly	40359SSSS	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
Aluminum and Stainless Couplers
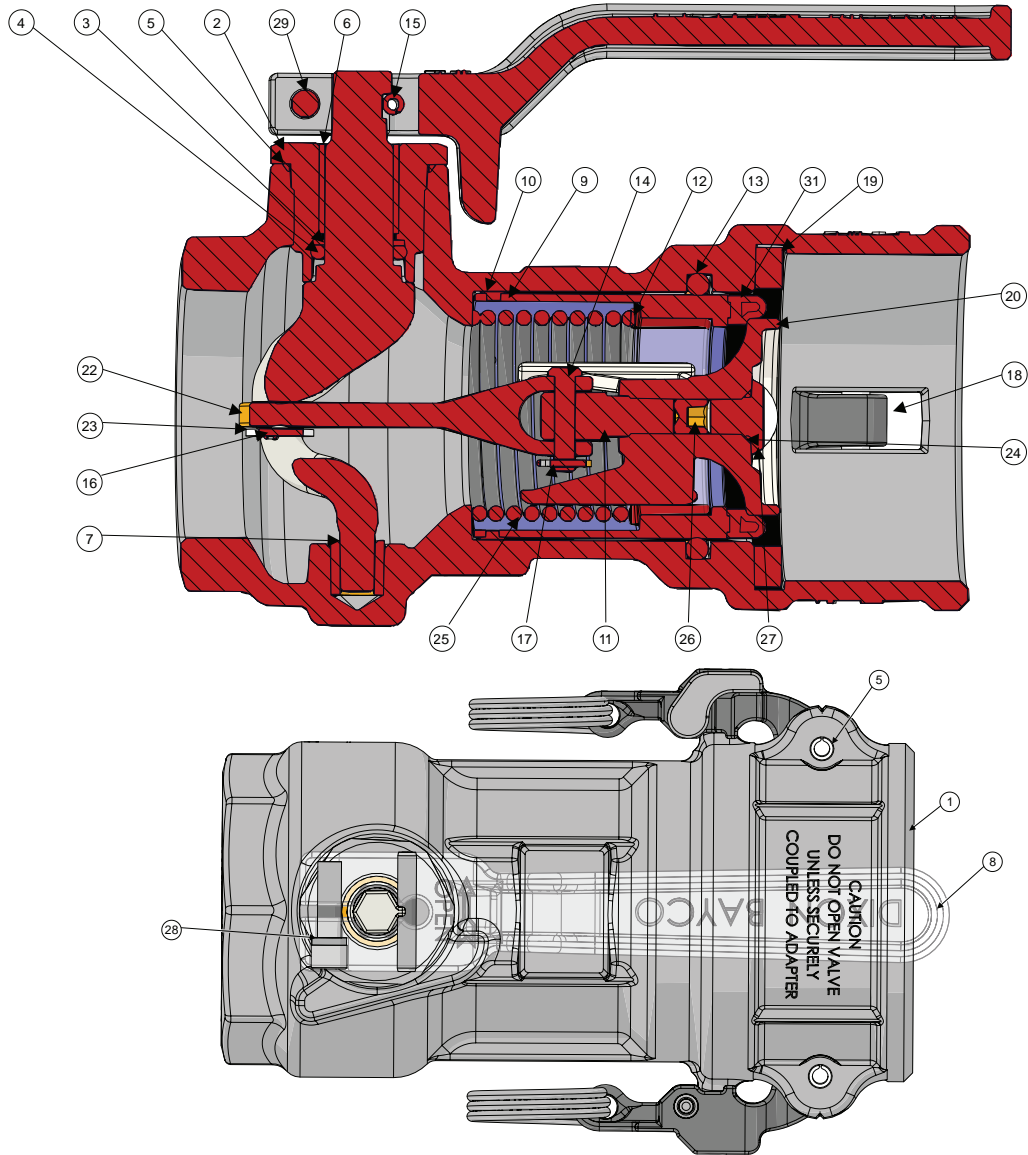
Bill of materials and repair kits can be found on the following pages

DBC6x-150 see page 121, 122
DBC7x-150 see page 123, 124
DBC6x-200 see page 125, 126
DBC7x-200 see page 127, 128
DBC6x-300 see page 130, 131
DBC7x-300 see page 132, 133
DBS6x-200 see page 135, 136

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
1-1/2" Aluminum Couplers
Bill of Materials
DBC6x-150
Refer to Drawing on Page 120

Item #	Description	Part #	Qty	Item #	Description	Part #	Qty
1	body	---	1	14	link rivet	40086SS	1
2	stuffing box	40074SS	1	15	groove pin	40087SS	1
3	back up ring	40075TF	1	16	crank shaft cotter pin	40088SS	1
4A	crank shaft O-ring NBR (for DBC61-150)	40076BN	1	17	link cotter pin	40088SS	1
4B	crank shaft O-ring FKM (for DBC62-150)	40076VI	1	18	EZ Boss-Lock™ cam arm	40089SS	2
4C	crank shaft O-ring FFKM (for DBC63-150)	40076KR	1	19A	cam gasket NBR (for DBC61-150)	200-G-BU	1
4D	crank shaft O-ring EPDM (for DBC63-150, DBC66-150, and DBC67-150)	40076EP	1	19B	cam gasket FKM (for DBC62-150)	200-G-VI	1
5	stuffing box PTFE O-ring	40077TF	1	19C	cam gasket PTFE/silicone (for DBC63-150)	200-G-TES	1
6	large crank shaft bearing	40078FG	1	19D	cam gasket EPR (for DBC64-150)	200-G-EPR	1
7	small crank shaft bearing	40079SS	1	19E	cam gasket PTFE/FKM (for DBC66-150 and DBC67-150)	200-G-TFVI	1
8	lever (handle)	40080SS	1	20	poppet	40114SS	1
9A	seal cylinder (for DBC61-150)	40117ALBN	1	21	crank shaft	40115SS	1
9B	seal cylinder (for DBC62-150)	40117ALVI	1	22	link arm	40116SS	1
9C	seal cylinder (for DBC63-150, DBC66-150, and DBC67-150)	40169SS	1	23	link washer	40094SS	1
9D	seal cylinder (for DBC64-150)	40117ALEP	1	24	poppet screw PTFE O-ring	40122TF	1
10	PTFE button	40082TF	6	25	cylinder spring	DBCxx-150RK8	1
11	yoke	40118SS	1	26	set screw	40124SS	1
12	PTFE bushing	40119TF	1	27	poppet screw (round head)	40125SS	1
13A	body O-ring NBR (for DBC61-150)	40120BN	1	28	lock washer	40099SS	1
13B	body O-ring FKM (for DBC62-150)	40120VI	1	29	socket head cap screw	40100SS	1
13C	body O-ring PTFE/silicone (for DBC63-150)	40120TS	1	30	cam arm spring pin	40101SS	2
13D	body O-ring EPDM (for DBC64-150)	40120EP	1	31	nose seal (for DBC63-150, DBC66-150, and DBC67-150)	40171TF	1
13E	body O-ring FFKM (for DBC66-150)	40120KR	1				
13F	body O-ring PTFE/FKM (for DBC67-150)	40120TV	1				

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
1-1/2" Aluminum Couplers
Repair Kits

Part #	Description	Includes Item #
DBCx1-150RK1 (NBR)	seal kit, NBR crank shaft O-ring, PTFE stuffing box O-ring, NBR body O-ring, NBR cam gasket, PTFE O-ring (for DBC61-150)	4A, 5, 13A, 19A, 24
DBCx2-150RK1 (FKM)	seal kit, FKM crank shaft O-ring, PTFE stuffing box O-ring, FKM body O-ring, FKM cam gasket, PTFE O-ring (for DBC62-150)	4B, 5, 13B, 19B, 24
DBCx3-150RK1 (PTFE and FFKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/silicone body O-ring, PTFE/silicone cam gasket, PTFE O-ring (for DBC63-150)	4C, 5, 13C, 19C, 24
DBCx4-150RK1 (EPDM)	seal kit, EPDM crank shaft O-ring, PTFE stuffing box O-ring, EPDM body O-ring, EPR cam gasket, PTFE O-ring (for DBC64-150)	4D, 5, 13D, 19D, 24
DBCx6-150RK1 (FFKM and PTFE/FKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, FFKM body O-ring, PTFE/FKM cam gasket, PTFE O-ring (for DBC66-150)	4C, 5, 13E, 19E, 24
DBCx7-150RK1	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/FKM body O-ring, PTFE/FKM cam gasket, PTFE O-ring (for DBC67-150)	4C, 5, 13F, 19E, 24
DBC61-150RK2	NBR seal cylinder, PTFE buttons, and PTFE bushing (for DBC61-150)	9A, 10, 12
DBC62-150RK2	FKM seal cylinder, PTFE buttons, and PTFE bushing (for DBC62-150)	9B, 10, 12
DBCx3-150RK2	PTFE nose seal , PTFE buttons, and PTFE bushing (for DBC63-150, DBC66-150, and DBC67-150)	10, 12, 31
DBC64-150RK2	EPDM seal cylinder, PTFE buttons, and PTFE bushing (for DBC64-150)	9D, 10, 12
DBCxx-150RK4	link kit, link rivet, cotter pins, link washer, link arm, and yoke (for all 1-1/2" aluminum)	11, 14, 16, 17, 22, 23
DBCxx-150RK5	stuffing box kit, stuffing box, PTFE O-ring, and large crank shaft bearing (for all 1-1/2" aluminum)	2, 5, 6
DBCxx-150RK6	lever (handle) kit, lever, groove pin, lock washer, and socket head cap screw (for all 1-1/2" aluminum)	8, 15, 28, 29
DBCxx-150RK7	crank shaft kit, crank shaft, cotter pin, and washer (for all 1-1/2" aluminum)	16, 21, 23
DBCxx-150RK8	main cylinder spring	25
DBCxx-150RK9	poppet kit, poppet, round head screw, set screw, and PTFE washer (for all 1-1/2"aluminum)	20, 24, 26, 27
DBCL-200	optional add on padlockable lever kit, handle (for all 1-1/2")	not illustrated

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
1-1/2" Stainless Couplers
Bill of Materials
DBC7x-150
Refer to Drawing on Page 120

Item #	Description	Part #	Qty	Item #	Description	Part #	Qty
1	body	---	1	14	link rivet	40086SS	1
2	stuffing box	40074SS	1	15	groove pin	40087SS	1
3	back up ring	40075TF	1	16	crank shaft cotter pin	40088SS	1
4A	crank shaft O-ring NBR (for DBC71-150)	40076BN	1	17	link cotter pin	40088SS	1
4B	crank shaft O-ring FKM (for DBC72-150)	40076VI	1	18	EZ Boss-Lock™ cam arm	40089SS	2
4C	crank shaft O-ring FFKM (for DBC73-150, DBC76-150, and DBC77-150)	40076KR	1	19A	cam gasket NBR (for DBC71-150)	200-G-BU	1
4D	crank shaft O-ring EPDM (for DBC74-150)	40076EP	1	19B	cam gasket FKM (for DBC72-150)	200-G-VI	1
5	stuffing box PTFE O-ring	40077TF	1	19C	cam gasket PTFE/silicone (for DBC73-150)	200-G-TES	1
6	large crank shaft bearing	40078FG	1	19D	cam gasket EPDM (for DBC74-150)	200-G-EPR	1
7	small crank shaft bearing	40079SS	1	19E	cam gasket PTFE/FKM (for DBC76-150 and DBC77-150)	200-G-TFVI	1
8	lever (handle)	40080SS	1	20	poppet	40114SS	1
9A	seal cylinder (for DBC71-150)	40117SSBN	1	21	crank shaft	40115SS	1
9B	seal cylinder (for DBC72-150)	40117SSVI	1	22	link arm	40116SS	1
9C	seal cylinder (for DBC73-150, DBC76-150, and DBC77-150)	40169SS	1	23	link washer	40094SS	1
9D	seal cylinder (for DBC74-150)	40117SSEP	1	24	poppet screw PTFE O-ring	40122TF	1
10	PTFE button	40082TF	6	25	cylinder spring	DBCxx-150RK8	1
11	yoke	40118SS	1	26	set screw	40124SS	1
12	PTFE bushing	40119TF	1	27	poppet screw (round head)	40125SS	1
13A	body O-ring NBR (for DBC71-150)	40120BN	1	28	lock washer	40099SS	1
13B	body O-ring FKM (for DBC72-150)	40120VI	1	29	socket head cap screw	40100SS	1
13C	body O-ring PTFE/silicone (for DBC73-150)	40120TS	1	30	cam arm spring pin	40101SS	2
13D	body O-ring EPDM (for DBC74-150)	40120EP	1	31	nose seal (for DBC73-150, DBC76-150, and DBC77-150)	40171TF	1
13E	body O-ring FFKM (for DBC76-150)	40120KR	1				
13F	body O-ring PTFE/FKM (for DBC77-150)	40120TV	1				

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
1-1/2" Stainless Couplers
Repair Kits

Part #	Description	Includes Item #
DBCx1-150RK1 (NBR)	seal kit, NBR crank shaft O-ring, PTFE stuffing box O-ring, NBR body O-ring, NBR cam gasket, PTFE O-ring (for DBC71-150)	4A, 5, 13A, 19A, 24
DBCx2-150RK1 (FKM)	seal kit, FKM crank shaft O-ring, PTFE stuffing box O-ring, FKM body O-ring, FKM cam gasket, PTFE O-ring (for DBC72-150)	4B, 5, 13B, 19B, 24
DBCx3-150RK1 (PTFE/silicone and FFKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/silicone body O-ring, PTFE/silicone cam gasket, PTFE O-ring (for DBC73-150)	4C, 5, 13C, 19C, 24
DBCx4-150RK1 (EPDM)	seal kit, EPDM crank shaft O-ring, PTFE stuffing box O-ring, EPDM body O-ring, EPR cam gasket, PTFE O-ring (for DBC74-150)	4D, 5, 13D, 19D, 24
DBCx6-150RK1 (FFKM and PTFE/FKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, FFKM body O-ring, PTFE/FKM cam gasket, PTFE O-ring (for DBC76-150)	4C, 5, 13E, 19E, 24
DBCx7-150RK1	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/FKM body O-ring, PTFE/FKM cam gasket, PTFE O-ring (for DBC77-150)	4C, 5, 13F, 19E, 24
DBC71-150RK2	NBR seal cylinder, PTFE buttons, and PTFE bushing (for DBC71-150)	9A, 10, 12
DBC72-150RK2	FKM seal cylinder, PTFE buttons, and PTFE bushing (for DBC72-150)	9B, 10, 12
DBCx3-150RK2	PTFE nose seal, PTFE buttons, and PTFE bushing (for DBC73-150, DBC76-150, and DBC77-150)	10, 12, 31
DBC74-150RK2	EPDM seal cylinder, PTFE buttons, and PTFE bushing (for DBC74-150)	9D, 10, 12
DBCxx-150RK4	link kit, link rivet, cotter pins, link washer, link arm, and yoke (for all 1-1/2" stainless steel)	11, 14, 16, 17, 22, 23
DBCxx-150RK5	stuffing box kit, stuffing box, PTFE O-ring, and large crank shaft bearing (for all 1-1/2" stainless steel)	2, 5, 6
DBCxx-150RK6	lever (handle) kit, lever, groove pin, lock washer, and socket head cap screw (for all 1-1/2" stainless steel)	8, 15, 28, 29
DBCxx-150RK7	crank shaft kit, crank shaft, cotter pin, and washer (for all 1-1/2" stainless steel)	16, 21, 23
DBCxx-150RK8	main cylinder spring	25
DBCxx-150RK9	poppet kit, poppet, round head screw, set screw, and PTFE O-ring (for all 1-1/2" stainless steel)	20, 24, 26, 27
DBCL-200	optional add on padlockable lever kit (handle) (for all 1-1/2")	not illustrated

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
2" Aluminum Couplers
Bill of Materials
DBC6x-200
Refer to Drawing on Page 120

Item #	Description	Part #	Qty	Item #	Description	Part #	Qty
1	body	---	1	14	link rivet	40086SS	1
2	stuffing box	40074SS	1	15	groove pin	40087SS	1
3	back up ring	40075TF	1	16	crank shaft cotter pin	40088SS	1
4A	crank shaft O-ring NBR (for DBC61-200)	40076BN	1	17	link cotter pin	40088SS	1
4B	crank shaft O-ring FKM (for DBC62-200)	40076VI	1	18	EZ Boss-Lock™ cam arm	40089SS	2
4C	crank shaft O-ring FFKM (for DBC63-200, DBC66-200, and DBC67-200)	40076KR	1	19A	cam gasket NBR (for DBC61-200)	250-G-BU	1
4D	crank shaft O-ring EPDM (for DBC64-200)	40076EP	1	19B	cam gasket FKM (for DBC62-200)	250-G-VI	1
5	stuffing box PTFE O-ring	40077TF	1	19C	cam gasket PTFE/silicone (for DBC63-200)	250-G-TES	1
6	large crank shaft bearing	40078FG	1	19D	cam gasket EPR (for DBC64-200)	250-G-EPR	1
7	small crank shaft bearing	40079SS	1	19E	cam gasket PTFE/FKM (for DBC66-200 and DBC67-200)	250-G-TFVI	1
8	lever (handle)	40080SS	1	20	poppet	40091SS	1
9A	seal cylinder (for DBC61-200)	40081ALBN	1	21	crank shaft	40092SS	1
9B	seal cylinder (for DBC62-200)	40081ALVI	1	22	link arm	40093SS	1
9C	seal cylinder (for DBC63-200, DBC66-200, and DBC67-200)	40168SS	1	23	link washer	40094SS	1
9D	seal cylinder (for DBC64-200)	40081ALEP	1	24	poppet screw PTFE O-ring	40095TF	1
10	PTFE button	40082TF	6	25	cylinder spring	DBCxx-200RK8	1
11	yoke	40083SS	1	26	set screw	40097SS	1
12	PTFE bushing	40084TF	1	27	poppet screw (round head)	40098SS	1
13A	body O-ring NBR (for DBC61-200)	40085BN	1	28	lock washer	40099SS	1
13B	body O-ring FKM (for DBC62-200)	40085VI	1	29	socket head cap screw	40100SS	1
13C	body O-ring PTFE/silicone (for DBC63-200)	40085TS	1	30	cam arm spring pin	40101SS	2
13D	body O-ring EPDM (for DBC64-200)	40085EP	1	31	nose seal (for DBC63-200, DBC66-200, and DBC67-200)	40170TF	1
13E	body O-ring FFKM (for DBC66-200)	40085KR	1				
13F	body O-ring PTFE/FKM (for DBC67-200)	40085TV	1				

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
2" Aluminum Couplers
Repair Kits

Part #	Description	Includes Item #
DBCx1-200RK1 (NBR)	seal kit, NBR crank shaft O-ring, PTFE stuffing box O-ring, NBR body O-ring, NBR cam gasket, PTFE O-ring (for DBC61-200)	4A, 5, 13A, 19A, 24
DBCx2-200RK1 (FKM)	seal kit, FKM crank shaft O-ring, PTFE stuffing box O-ring, FKM body O-ring, FKM cam gasket, PTFE O-ring (for DBC62-200)	4B, 5, 13B, 19B, 24
DBCx3-200RK1 (PTFE/silicone and FFKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/silicone body O-ring, PTFE/silicone cam gasket, PTFE O-ring (for DBC63-200)	4C, 5, 13C, 19C, 24
DBCx4-200RK1 (EPDM)	seal kit, EPDM crank shaft O-ring, PTFE stuffing box O-ring, EPDM body O-ring, EPR cam gasket, PTFE O-ring (for DBC64-200)	4D, 5, 13D, 19D, 24
DBCx6-200RK1 (FFKM and PTFE/FKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, FFKM body O-ring, PTFE/FKM cam gasket, PTFE O-ring (for DBC66-200)	4C, 5, 13E, 19E, 24
DBCx7-200RK1 (FFKM and PTFE/FKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/FKM body O-ring, PTFE/FKM cam gasket, PTFE O-ring (for DBC67-200)	4C, 5, 13F, 19E, 24
DBC61-200RK2	NBR seal cylinder, PTFE buttons, and PTFE bushing (for DBC61-200)	9A, 10, 12
DBC62-200RK2	FKM seal cylinder, PTFE buttons, and PTFE bushing (for DBC62-200)	9B, 10, 12
DBCx3-200RK2	PTFE nose seal, PTFE buttons, and PTFE bushing (for DBC63-200, DBC66-200, and DBC67-200)	10, 12, 31
DBC64-200RK2	EPDM seal cylinder, PTFE buttons, and PTFE bushing (for DBC64-200)	9D, 10, 12
DBCxx-200RK4	link kit, link rivet, cotter pins, link washer, link arm, and yoke (for all 2" aluminum)	11, 14, 16, 22, 23
DBCxx-200RK5	stuffing box kit, stuffing box, PTFE O-ring, and large crank shaft bearing (for all 2" aluminum)	2, 5, 6
DBCxx-200RK6	lever (handle) kit, lever, groove pin, lock washer, and socket head cap screw (for all 2" aluminum)	8, 15, 28, 29
DBCxx-200RK7	crank shaft kit, crank shaft, cotter pin, and washer (for all 2" aluminum)	16, 21, 23
DBCxx-200RK8	main cylinder spring	25
DBCxx-200RK9	poppet kit, poppet, round head screw, set screw, and PTFE O-ring (for all 2" aluminum)	20, 24, 26, 27
DBCL-200	optional add on padlockable lever kit, handle (for all 2")	not illustrated

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
2" Stainless Couplers
Bill of Materials
DBC7x-200
Refer to Drawing on Page 120

Item #	Description	Part #	Qty	Item #	Description	Part #	Qty
1	body	---	1	14	link rivet	40086SS	1
2	stuffing box	40074SS	1	15	groove pin	40087SS	1
3	back up ring	40075TF	1	16	crank shaft cotter pin	40088SS	1
4A	crank shaft O-ring NBR (for DBC71-200)	40076BN	1	17	link cotter pin	40088SS	2
4B	crank shaft O-ring FKM (for DBC72-200)	40076VI	1	18	EZ Boss-Lock™ cam arm	40089SS	1
4C	crank shaft O-ring FFKM (for DBC73-200, DBC77-200, DBC76-200)	40076KR	1	19A	cam gasket NBR (for DBC71-200)	250-G-BU	1
4D	crank shaft O-ring EPDM (for DBC74-200)	40076EP	1	19B	cam gasket FKM (for DBC72-200)	250-G-VI	1
5	stuffing box PTFE O-ring	40077TF	1	19C	cam gasket PTFE/silicone (for DBC73-200)	250-G-TES	1
6	large crank shaft bearing	40078FG	1	19D	cam gasket EPR (for DBC74-200)	250-G-EPR	1
7	small crank shaft bearing	40079SS	1	19E	cam gasket PTFE/FKM (for DBC76-200, DBC77-200)	250-G-TEV	1
8	lever (handle)	40080SS	1	20	poppet	40091SS	1
9A	seal cylinder (for DBC71-200)	40081SSBN	1	21	crank shaft	40092SS	1
9B	seal cylinder (for DBC72-200)	40081SSVI	1	22	link arm	40093SS	1
9C	seal cylinder (for DBC73-200, DBC76-200, DBC77-200)	40168SS	1	23	link washer	40094SS	1
9D	seal cylinder (for DBC74-200)	40081SSEP	6	24	poppet screw PTFE O-ring	40095TF	1
10	PTFE button	40082TF	1	25	cylinder spring	40096SS	1
11	yoke	40083SS	1	26	set screw	40097SS	1
12	PTFE bushing	40084TF	1	27	poppet screw (round head)	40098SS	1
13A	body O-ring NBR (for DBC71-200)	40085BN	1	28	lock washer	40099SS	1
13B	body O-ring FKM (for DBC72-200)	40085VI	1	29	socket head cap screw	40100SS	1
13C	body O-ring PTFE/silicone (for DBC73-200)	40085TS	1	30	cam arm spring pin	40101SS	2
13D	body O-ring EPDM (for DBC74-200)	40085EP	1	31	nose seal (for DBC73-200, DBC76-200, and DBC77-200)	40170TF	1
13E	body O-ring FFKM (for DBC76-200)	40085KR	1				
13F	body O-ring PTFE/FKM (for DBC77-200)	40085TV	1				

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
2" Stainless Couplers
Repair Kits

Part #	Description	Includes Item #
DBCx1-200RK1 (NBR)	seal kit, NBR crank shaft O-ring, PTFE stuffing box O-ring, NBR body O-ring, NBR cam gasket, PTFE O-ring (for DBC71-200)	4A, 5, 13A, 19A, 24
DBCx2-200RK1 (FKM)	seal kit, FKM crank shaft O-ring, PTFE stuffing box O-ring, FKM body O-ring, FKM cam gasket, PTFE O-ring (for DBC72-200)	4B, 5, 13B, 19B, 24
DBCx3-200RK1 (PTFE/silicone and FFKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/silicone body O-ring, PTFE/silicone cam gasket, PTFE O-ring (for DBC73-200)	4C, 5,13C, 19C, 24
DBCx4-200RK1 (EPDM)	seal kit, EPDM crank shaft O-ring, PTFE stuffing box O-ring, EPDM body O-ring, EPR cam gasket, PTFE O-ring (for DBC74-200)	4D, 5, 13D, 19D, 24
DBCx6-200RK1 (FFKM and PTFE/FKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, FFKM body O-ring, PTFE/FKM cam gasket, PTFE O-ring (for DBC76-200)	4C, 5, 13E, 19E, 24
DBCx7-200RK1 (PTFE/FKM and FFKM)	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/FKM body O-ring, PTFE/FKM cam gasket, PTFE O-ring (for DBC77-200)	4C, 5, 13F, 19E, 24
DBC71-200RK2	NBR seal cylinder, PTFE buttons, and PTFE bushing (for DBC71-200)	9A, 10, 12
DBC72-200RK2	FKM seal cylinder, PTFE buttons, and PTFE bushing (for DBC72-200)	9B, 10, 12
DBCx3-200RK2	PTFE nose seal, PTFE buttons, and PTFE bushing (for DBC73-200, DBC76-200, and DBC77-200)	10, 12, 31
DBC74-200RK2	EPDM seal cylinder, PTFE buttons, and PTFE bushing (for DBC74-200)	9D, 10, 12
DBCxx-200RK4	link kit, link rivet, cotter pins, link washer, link arm, yoke (for all 2" SS)	11, 14, 16, 17, 22, 23
DBCxx-200RK5	stuffing box kit, stuffing box, PTFE O-ring, and large crank shaft bearing (for all 2" SS)	2, 5, 6
DBCxx-200RK6	lever (handle) kit, lever, groove pin, lock washer, and socket head cap screw (for all 2" SS)	8, 15, 28, 29
DBCxx-200RK7	crank shaft kit, crank shaft, cotter pin, and washer (for all 2" SS)	16, 21, 23
DBCxx-200RK8	main cylinder spring	25
DBCxx-200RK9	poppet kit, poppet, round head screw, set screw, and PTFE O-ring (for all 2" SS)	20, 24, 26, 27
DBCL-200	optional add on padlockable lever kit (handle) (for all 2")	not illustrated

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
3" Aluminum Couplers

DBC Cam & Groove Dry Disconnects
3" Aluminum Couplers
Bill of Materials
DBC6x-300
Refer to Drawing on Page 129

Item #	Description	Part #	Qty	Item #	Description	Part #	Qty
1	groove pin	40087SS	1	23	lever (handle) screw	40216SS	1
2	body	---	1	24	lever (handle) lock washer	40217SS	1
3	poppet	40195SS	1	25	cam arm pin	40218SS	2
4	stem	40196SS	1	26	PTFE O-ring	40219TF	1
5A	seal cylinder (for DBC61-300)	40197ALBN	1	27	cotter pin	40221SS	2
5B	seal cylinder (for DBC62-300)	40197ALVI	1	28A	NBR coupler gasket (for DBC61-300)	DBCx1-300RK3	1
5C	seal cylinder (for DBC63-300, DBC66-300, and DBC67-300)	40304SS	1	28B	FKM coupler gasket (for DBC62-300)	DBCx2-300RK3	1
5D	seal cylinder (for DBC64-300)	40197SSEP	1	28C	PTFE/silicone coupler gasket (for DBC63-300)	DBCx3-300RK3	1
5E	seal cylinder (for DBC69-300)	40197SSVB	1	28D	EPDM coupler gasket (for DBC64-300)	DBCx4-300RK3	1
6	PTFE button	40198TF	8	28E	PTFE/FKM coupler gasket (for DBC66-300 and DBC67-300)	40222TV	1
7	cylinder spring	DBCxx-300RK8	1	28F	FKM-B coupler gasket (for DBC69-300)	DBCx9-300RK3	1
8	poppet spring seat	40200AL	1	29A	NBR O-ring (for DBC61-300)	40223BN	1
9	PTFE bushing	40201TF	1	29B	FKM O-ring (for DBC62-300)	40223VI	1
10	poppet spring guide	40202SS	1	29C	FFKM O-ring (for DBC63-300, DBC66-300, and DBC67-300)	40223KR	1
11	shaft	40203SS	1	29D	EPDM O-ring (for DBC64-300)	40223EP	1
12	yoke	40204SS	1	29E	FKM-B O-ring (for DBC69-300)	40223VB	1
13	link	40205SS	1	30A	NBR O-ring (for DBC61-300)	40224BN	1
14	shaft retainer	40206SS	1	30B	FKM O-ring (for DBC62-300)	40224VI	1
15	stuffing box	40207SS	1	30C	PTFE/silicone O-ring (for DBC63-300)	40224TS	1
16	lever (handle)	40208SS	1	30D	EPDM O-ring (for DBC64-300)	40224EP	1
17	set screw	40209SS	1	30E	FFKM O-ring (for DBC66-300)	40224KR	1
18	poppet screw	40210SS	1	30F	PTFE/FKM O-ring (for DBC67-300)	40224TV	1
19	PTFE bearing	40211TF	1	30G	FKM-B O-ring (for DBC69-300)	40224VB	1
20	clevis pin	40212SS	2	31	PTFE O-ring	40235TF	1
21	bearing	40213FG	1	32	locking paddle arm	40285SSSS	2
22	cotter pin	40214SS	1	33	nose seal (for DBC63-300, DBC66-300, and DBC67-300)	40305TF	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
3" Aluminum Couplers
Repair Kits

Part #	Description	Includes Item #
DBCx1-300RK1 (NBR)	seal kit, NBR stuffing box O-ring, PTFE stuffing box to body O-ring, NBR body O-ring, NBR cam gasket, PTFE poppet screw O-ring (for DBC61-300)	26, 28A, 29A, 30A, 31
DBCx2-300RK1 (FKM)	seal kit, FKM stuffing box O-ring, PTFE stuffing box to body O-ring, FKM body O-ring, FKM cam gasket, PTFE poppet screw O-ring (for DBC62-300)	26, 28B, 29B, 30B, 31
DBCx3-300RK1 (PTFE/silicone and FFKM)	seal kit, FFKM stuffing box O-ring, PTFE stuffing box to body O-ring, PTFE/silicone body O-ring, PTFE/silicone cam gasket, PTFE poppet screw O-ring (for DBC63-300)	26, 28C, 29C, 30C, 31
DBCx4-300RK1 (EPDM)	seal kit, EPDM stuffing box O-ring, PTFE stuffing box to body O-ring, EPDM body O-ring, EPDM cam gasket, PTFE poppet screw O-ring (for DBC64-300)	26, 28D, 29D, 30D, 31
DBCx6-300RK1 (FFKM and PTFE/FKM)	seal kit, FFKM stuffing box O-ring, PTFE stuffing box to body O-ring, FFKM body O-ring, PTFE/FKM cam gasket, PTFE poppet screw O-ring (for DBC66-300)	26, 28E, 29C, 30E, 31
DBCx7-300RK1 (PTFE/FKM and FFKM)	seal kit, FFKM stuffing box O-ring, PTFE stuffing box to body O-ring, PTFE/FKM body O-ring, PTFE/FKM cam gasket, PTFE poppet screw O-ring (for DBC67-300)	26, 28E, 29C, 30F, 31
DBCx9-300RK1 (FKM-B)	seal kit, FKM-B stuffing box O-ring, PTFE stuffing box to body O-ring, FKM-B body O-ring, FKM-B cam gasket, PTFE poppet screw O-ring (for DBC69-300)	26, 28F, 29E, 30G, 31
DBC61-300RK2	NBR seal cylinder, PTFE buttons, and PTFE bushing (for DBC61-300)	5A, 6, 9
DBC62-300RK2	FKM seal cylinder, PTFE buttons, and PTFE bushing (for DBC62-300)	5B, 6, 9
DBCx3-300RK2	PTFE nose seal, PTFE buttons, and PTFE bushing (for DBC63-300, DBC66-300, and DBC67-300)	6, 9, 33
DBC64-300RK2	EPDM seal cylinder, PTFE buttons, and PTFE bushing (for DBC64-300)	5D, 6, 9
DBC69-300RK2	FKM-B seal cylinder, PTFE buttons, and PTFE bushing (for DBC69-300)	5E, 6, 9
DBCx1-300RK3	NBR coupler gasket	28A
DBCx2-300RK3	FKM coupler gasket	28B
DBCx3-300RK3	PTFE/silicone coupler gasket	28C
DBCx4-300RK3	EPDM coupler gasket	28D
DBCx9-300RK3	FKM-B coupler gasket	28F
DBCxx-300RK4	link kit, clevis pin, cotter pin, stem, link, and yoke (for all 3" aluminum)	4, 12, 13, 20, 22, 27
DBCxx-300RK5	stuffing box kit, stuffing box, PTFE O-ring, and bearing	15, 21, 26
DBCxx-300RK6	lever (handle) kit, lever, groove pin, lock washer, and socket head cap screw (for all 3" aluminum)	1, 16, 23, 24
DBCxx-300RK7	shaft kit, shaft, cotter pin, bearing, shaft retainer	11, 14, 19, 22
DBCxx-300RK8	main cylinder spring	7
DBCxx-300RK9	poppet kit, poppet and screw, set screw, and PTFE O-ring	3, 17, 18, 31

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
3" Stainless Couplers
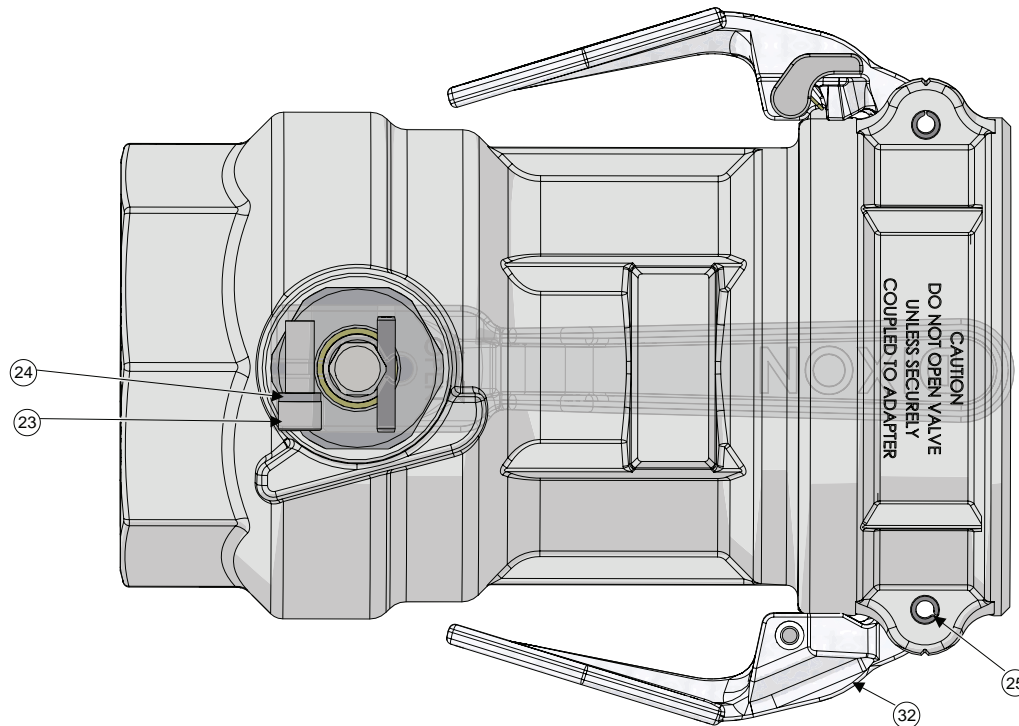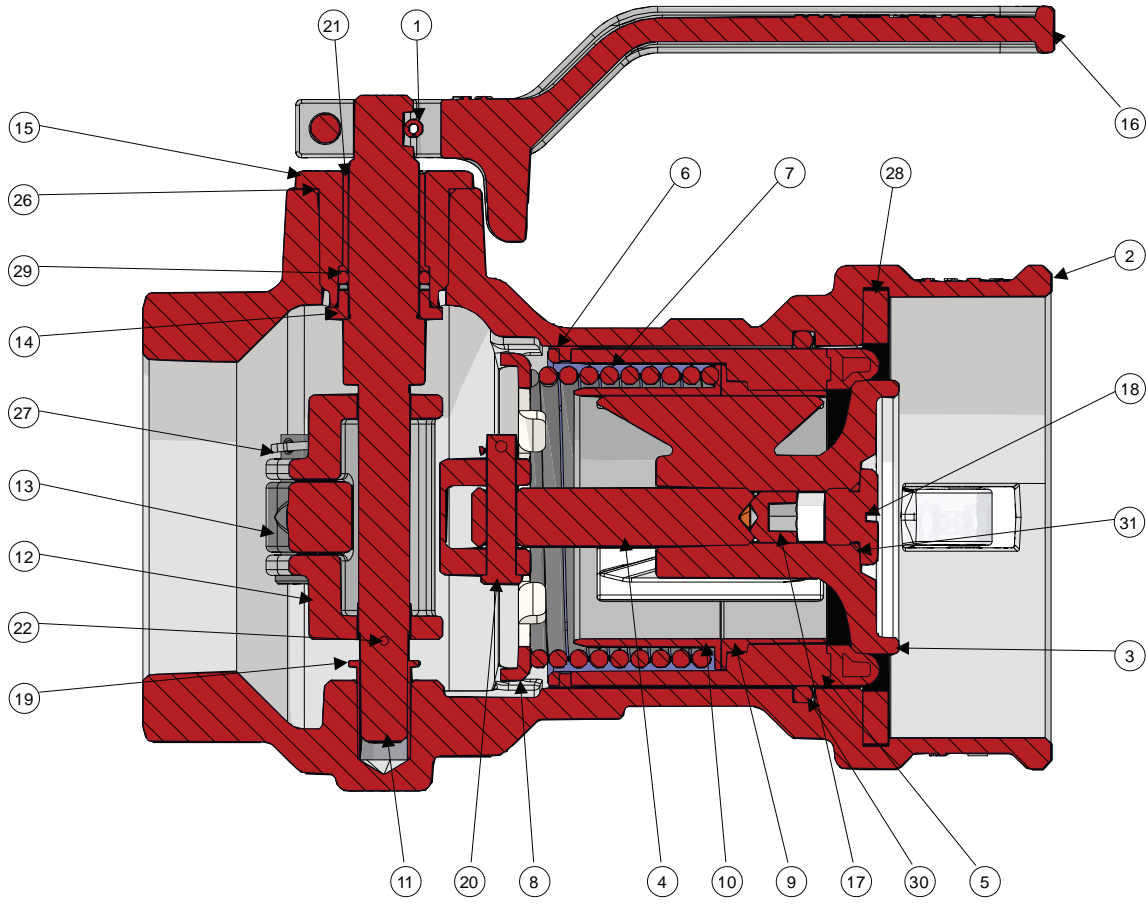### Bill of Materials
DBC7x-300
Refer to Drawing on Page 129

Item #	Description	Part #	Qty	Item #	Description	Part #	Qty
1	groove pin	40087SS	1	23	lever (handle) screw	40216SS	1
2	body	---	1	24	lever (handle) lock washer	40217SS	1
3	poppet	40195SS	1	25	cam arm pin	40218SS	2
4	stem	40196SS	1	26	PTFE O-ring	40219TF	1
5A	seal cylinder NBR (for DBC71-300)	40197SSBN	1	27	cotter pin	40221SS	2
5B	seal cylinder FKM (for DBC72-300)	40197SSVI	1	28A	NBR coupler gasket (for DBC71-300)	DBCx1-300RK3	1
5C	stainless cylinder (for DBC73-300, DBC76-300, and DBC77-300)	40304SS	1	28B	FKM coupler gasket (for DBC72-300)	DBCx2-300RK3	1
5D	seal cylinder EPDM (for DBC74-300)	40197SSEP	1	28C	PTFE/silicone coupler gasket (for DBC73-300)	40222TS	1
5E	seal cylinder FKM-B (for DBC79-300)	40197SSVB	1	28D	EPDM coupler gasket (for DBC74-300)	40222EP	1
6	PTFE button	40198TF	8	28E	PTFE/FKM coupler gasket (for DBC76-300 and DBC77-300)	40222TV	1
7	cylinder spring	DBCxx-300RK8	1	28F	FKM-B coupler gasket (for DBC79-300)	DBCx9-300RK3	1
8	spring seat	40200SS	1	29A	NBR O-ring (for DBC71-300)	40223BN	1
9	PTFE bushing	40201TF	1	29B	FKM O-ring (for DBC72-300)	40223VI	1
10	spring guide	40202SS	1	29C	FFKM O-ring (for DBC73-300, DBC76-300, and DBC77-300)	40223KR	1
11	shaft	40203SS	1	29D	EPDM O-ring (for DBC74-300)	40223EP	1
12	yoke	40204SS	1	29E	FKM-B O-ring (for DBC79-300)	40223VB	1
13	link arm	40205SS	1	30A	NBR O-ring (for DBC71-300)	40224BN	1
14	shaft retainer	40206SS	1	30B	FKM O-ring (for DBC72-300)	40224VI	1
15	stuffing box	40207SS	1	30C	PTFE/silicone O-ring (for DBC73-300)	40224TS	1
16	lever (handle)	40208SS	1	30D	EPDM O-ring (for DBC74-300)	40224EP	1
17	set screw	40209SS	1	30E	FFKM O-ring (for DBC76-300)	40224KR	1
18	poppet screw	40210SS	1	30F	PTFE/FKM O-ring (for DBC77-300)	40224TV	1
19	PTFE bearing	40211TF	1	30G	FKM-B O-ring (for DBC79-300)	40224VB	1
20	clevis pin	40212SS	2	31	PTFE O-ring	40235TF	1
21	bearing	40213FG	1	32	locking paddle arm	40285SSSS	2
22	cotter pin	40214SS	1	33	PTFE nose seal (for DBC73-300, DBC76-300, and DBC77-300)	40305TF	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBC Cam & Groove Dry Disconnects
3" Stainless Couplers
Repair Kits

Part #	Description	Includes Item #
DBCx1-300RK1 (NBR)	seal kit, NBR stuffing box O-ring, PTFE stuffing box to body O-ring, NBR body O-ring, NBR cam gasket, PTFE poppet screw O-ring (for DBC71-300)	26, 28A, 29A, 30A, 31
DBCx2-300RK1 (FKM)	seal kit, FKM stuffing box O-ring, PTFE stuffing box to body O-ring, FKM body O-ring, FKM cam gasket, PTFE poppet screw O-ring (for DBC72-300)	26, 28B, 29B, 30B, 31
DBCx3-300RK1 (PTFE/silicone and FFKM)	seal kit, FFKM stuffing box O-ring, PTFE stuffing box to body O-ring, PTFE/silicone body O-ring, PTFE/silicone cam gasket, PTFE poppet screw O-ring (for DBC73-300)	26, 28C, 29C, 30C, 31
DBCx4-300RK1 (EPDM)	seal kit, EPDM stuffing box O-ring, PTFE stuffing box to body O-ring, EPDM body O-ring, EPDM cam gasket, PTFE poppet screw O-ring (for DBC74-300)	26, 28D, 29D, 30D, 31
DBCx6-300RK1 (FFKM and PTFE/FKM)	seal kit, FFKM stuffing box O-ring, PTFE stuffing box to body O-ring, FFKM body O-ring, PTFE/FKM cam gasket, PTFE poppet screw O-ring (for DBC76-300)	26, 28E, 29C, 30E, 31
DBCx7-300RK1 (PTFE/FKM and FFKM)	seal kit, FFKM stuffing box O-ring, PTFE stuffing box to body O-ring, PTFE/FKM body O-ring, PTFE/FKM cam gasket, PTFE poppet screw O-ring (for DBC77-300)	26, 28E, 29C, 30F, 31
DBCx9-300RK1 (FKM-B)	seal kit, FKM-B stuffing box O-ring, PTFE stuffing box to body O-ring, FKM-B body O-ring, FKM cam gasket, PTFE poppet screw O-ring (for DBC79-300)	26, 28F, 29E, 30G, 31
DBC69-300RK2	FKM-B seal cylinder, PTFE buttons, and PTFE bushing (for DBC79-300)	5E, 6, 9
DBC71-300RK2	NBR seal cylinder, PTFE buttons, and PTFE bushing (for DBC71-300)	5A, 6, 9
DBC72-300RK2	FKM seal cylinder, PTFE buttons, and PTFE bushing (for DBC72-300)	5B, 6, 9
DBCx3-300RK2	PTFE nose seal, PTFE buttons, and PTFE bushing (for DBC73-300, DBC76-300, and DBC77-300)	6, 9, 33
DBC74-300RK2	EPDM seal cylinder, PTFE buttons, and PTFE bushing (for DBC74-300)	5D, 6, 9
DBCx1-300RK3	NBR coupler gasket	28A
DBCx2-300RK3	FKM coupler gasket	28B
DBCxx-300RK4	link kit, clevis pin, cotter pin, stem, link arm, and yoke (for all 3" SS)	4, 12, 13, 20, 22, 27
DBCxx-300RK5	stuffing box kit, stuffing box, PTFE O-ring, and bearing (for all 3" SS)	15, 21, 26
DBCxx-300RK6	lever (handle) kit, lever, groove pin, lock washer and socket head cap screw (for all 3" SS)	1, 16, 23, 24
DBCxx-300RK7	shaft kit, shaft, cotter pin bearing, shaft retainer (for all 3" SS)	11, 14, 19, 22
DBCxx-300RK8	main cylinder spring	7
DBCxx-300RK9	poppet kit, poppet, poppet screw, set screw, and PTFE O-ring (for all 3" SS)	3, 17, 18, 31

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBS 90° Swivel Cam & Groove Dry Disconnects
2" Aluminum 90° Swivel Couplers
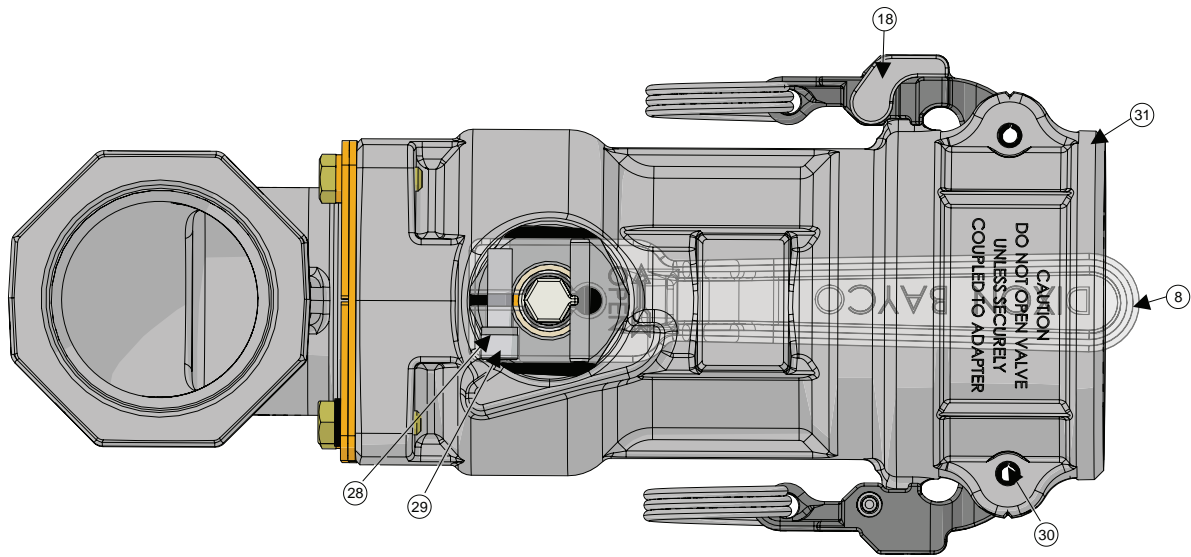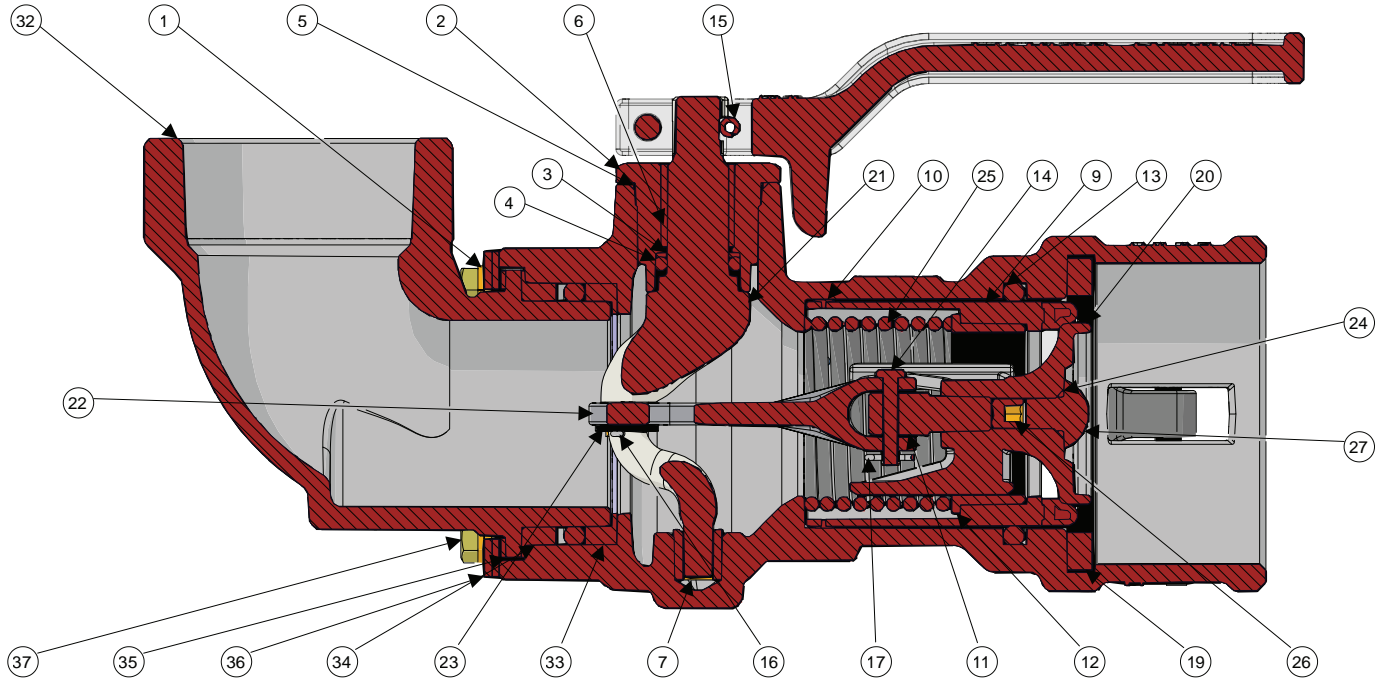
Section A - A

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBS 90° Swivel Cam & Groove Dry Disconnects
2″ Aluminum 90° Swivel Couplers
Bill of Materials
DBS6x-200

Item #	Description	Part #	Qty	Item #	Description	Part #	Qty
1	lock washer	10111	4	18	EZ Boss-Lock™ cam arm	40089SS	2
2	stuffing box	40074SS	1	19A	cam gasket NBR (for DBS61-200)	250-G-BU	1
3	back up ring	40075TF	1	19B	cam gasket FKM (for DBS62-200)	250-G-VI	1
4A	crank shaft O-ring NBR (for DBS61-200)	40076BN	1	19C	cam gasket PTFE/silicone (for DBS63-200)	250-G-TES	1
4B	crank shaft O-ring FKM (for DBS62-200)	40076VI	1	20	poppet	40091SS	1
4C	crank shaft O-ring FFKM (for DBS63-200)	40076KR	1	21	crank shaft	40092SS	1
5	stuffing box PTFE O-ring	40077TF	1	22	link arm	40093SS	1
6	large crank shaft bearing	40078FG	1	23	link washer	40094SS	1
7	small crank shaft bearing	40079SS	1	24	poppet screw PTFE O-ring	40095TF	1
8	lever (handle)	40080SS	1	25	cylinder spring	DBCxx-200RK8	1
9A	seal cylinder (for DBS61-200)	40081ALBN	1	26	set screw	40097SS	1
9B	seal cylinder (for DBS62-200)	40081ALVI	1	27	poppet screw (round head)	40098SS	1
9C	seal cylinder (for DBS63-200)	40168SS	1	28	lock washer	40099SS	1
10	PTFE button	40082TF	6	29	socket head cap screw	40100SS	1
11	yoke	40083SS	1	30	cam arm spring pin	40101SS	2
12	PTFE bushing	40084TF	1	31	main body	---	1
13A	body and swivel NBR O-ring (for DBS61-200)	40085BN	2	32	elbow body	---	1
13B	body and swivel FKM O-ring (for DBS62-200)	40085VI	2	33	bottom bearing	40106AC	1
13C	body and swivel PTFE/silicone O-ring (for DBS63-200)	40085TS	2	34	top bearing	40108AC	1
14	link rivet	40086SS	1	35	washer	40109AC	1
15	groove pin	40087SS	1	36	flange retainer	40110ST	4
16	crank shaft cotter pin	40088SS	1	37	screw	40111SS	4
17	link cotter pin	40088SS	1	not illustrated	nose seal (for DBS63-200)	40170TF	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DBS 90° Swivel Cam & Groove Dry Disconnects
2" Aluminum 90° Swivel Couplers
Repair Kits

Part #	Description	Includes Item #
DBS62-200RK1	seal kit, FKM crank shaft O-ring, PTFE stuffing box O-ring, FKM body and swivel O-rings, FKM cam gasket, PTFE O-ring (for DBS62-200)	4B, 5, 13B, 19B, 24
DBS61-200RK1	seal kit, NBR crank shaft O-ring, PTFE stuffing box O-ring, NBR and swivel body O-rings, NBR cam gasket, PTFE O-ring (for DBS61-200)	4A, 5, 13A, 19A, 24
DBS63-200RK1	seal kit, FFKM crank shaft O-ring, PTFE stuffing box O-ring, PTFE/silicone body and swivel O-rings, PTFE/silicone cam gasket, PTFE O-ring (for DBS63-200)	4C, 5, 13C, 19C, 24
DBS61-200RK4	swivel rebuild kit, NBR body O-ring, top and bottom bearings, washer, flange retainers, and screws (for DBS61-200)	13A, 33, 34, 35, 36, 37
DBS62-200RK4	swivel rebuild kit, FKM body O-ring, top and bottom bearings, washer, flange retainers, and screws (for DBS62-200)	13B, 33, 34, 35, 36, 37
DBS63-200RK4	swivel rebuild kit, PTFE/silicone body O-ring, top and bottom bearings, washer, flange retainers, and screws (for DBS63-200)	13C, 33, 34, 35, 36, 37
DBS61-200RK10	swivel seal kit, NBR body O-ring, top and bottom bearings (for DBS61-200)	13A, 33, 34, 35
DBS62-200RK10	swivel seal kit, FKM body O-ring, top and bottom bearings (for DBS62-200)	13B, 33, 34, 35
DBS63-200RK10	swivel seal kit, PTFE/silicone body O-ring, top and bottom bearings (for DBS63-200)	13C, 33, 34, 35
DBC61-200RK2	NBR seal cylinder, PTFE buttons, and PTFE bushing (for DBS61-200)	9A, 10, 12
DBC62-200RK2	FKM seal cylinder, PTFE buttons, and PTFE bushing (for DBS62-200)	9B, 10, 12
DBCx3-200RK2	PTFE nose seal, PTFE buttons, and PTFE bushing (for DBS63-200)	10, 12, + items not illustrated
DBCxx-200RK4	link kit, link rivet, cotter pins, link washer, link arm, and yoke (for all 2")	11, 14, 16, 17, 22, 23
DBCxx-200RK5	stuffing box kit, stuffing box, PTFE O-ring, and large crank shaft bearing (for all 2")	2, 5, 6
DBCxx-200RK6	lever (handle) kit, lever, groove pin, lock washer, and socket head cap screw (for all 2")	8, 15, 28, 29
DBCxx-200RK7	crank shaft kit, crank shaft, cotter pin, and washer (for all 2")	16, 21, 23
DBCxx-200RK8	main cylinder spring (for all 2")	25
DBCxx-200RK9	poppet kit, poppet, round head screw, set screw, and PTFE O-ring (for all 2")	20, 24, 26, 27
DBCL-200	optional add on padlockable lever kit, handle (for all 2")	not illustrated

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

D2C Cam & Groove Actuator Style Dry Disconnects
1-1/2" Stainless Couplers
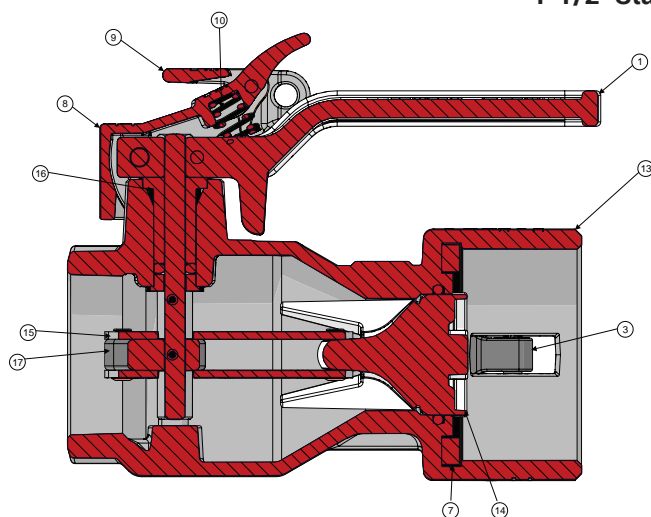
1-1/2" Stainless Coupler
Bill of Materials
D2C7x-150

Item #	Description	Part #	Qty
1	lever	40080SS	1
2	lever cotter pin	40088SS	2
3	EZ-Boss-Lock cam arm	40089SS	2
4	lock washer	40099SS	1
5	socket head screw	40100SS	1
6	cam arm spring pin	40101SS	2
7A	cam gasket NBR (for D2C71-150)	200-G-BU	1
7B	cam gasket FKM (for D2C72-150)	200-G-VI	1
7C	cam gasket PTFE/silicone (for D2C73-150)	200-G-TES	1
7D	cam gasket EPDM (for D2C74-150)	200-G-EPDM	1
8	lever latch	40225SS	1
9	lever lock	40226SS	1
10	lever lock compression spring	40230SS	1
11	lever lock torsion spring	40231SS	1
12	lever clevis pin	40232SS	2
13	body	---	1
14	poppet	40287SS	1
15	poppet link arm	40288SS	2
16	bearing	40289FG	1
17	poppet cam	40290SS	1
18	poppet lever shaft	40291SS	1
19	poppet link rivet	40292SS	2
20	poppet lever shaft spring pin	40293SS	2
21	spacer	40294SS	1
22	poppet O-ring PTFE/FKM	40295TV	1
23A	lever shaft O-ring NBR (for D2C71-150)	40296BN	1
23B	lever shaft O-ring FKM (for D2C72-150)	40296VI	1
23C	lever shaft O-ring FFKM (for D2C73-150)	40296KR	1
23D	lever shaft O-ring EPDM (for D2C74-150)	40296EP	1
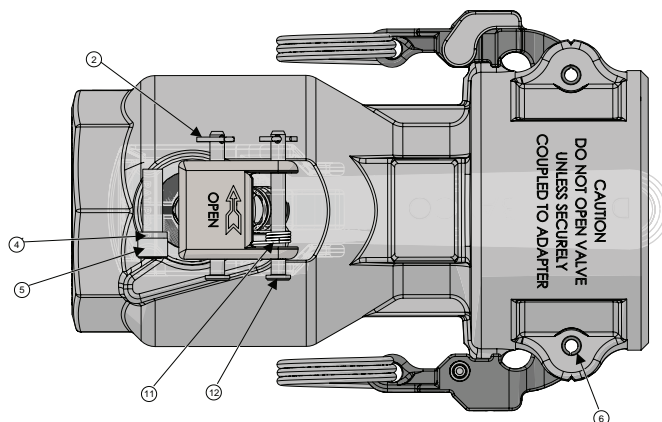
2" Stainless Coupler
Bill of Materials
D2C7x-200

Item #	Description	Part #	Qty
1	lever	40080SS	1
2	lever cotter pin	40088SS	2
3	EZ-Boss-Lock cam arm	40089SS	2
4	lock washer	40099SS	1
5	socket head screw	40100SS	1
6	cam arm spring pin	40101SS	2
7A	cam gasket NBR (for D2C71-200)	250-G-BU	1
7B	cam gasket FKM (for D2C72-200)	250-G-VI	1
7C	cam gasket PTFE/silicone (for D2C73-200)	250-G-TES	1
7D	cam gasket EPDM (for D2C74-200)	250-G-EPDM	1
8	lever latch	40225SS	1
9	lever lock	40226SS	1
10	lever lock compression spring	40230SS	1
11	lever lock torsion spring	40231SS	1
12	lever clevis pin	40232SS	2
13	body	---	1
14	poppet	40298SS	1
15	poppet link arm	40299SS	2
16	bearing	40289FG	1
17	poppet cam	40300SS	1
18	poppet lever shaft	40291SS	1
19	poppet link rivet	40292SS	2
20	poppet lever shaft spring pin	40293SS	2
21	spacer	40294SS	1
22	poppet O-ring PTFE/FKM	40301TV	1
23A	lever shaft O-ring NBR (for D2C71-200)	40296BN	1
23B	lever shaft O-ring FKM (for D2C72-200)	40296VI	1
23C	lever shaft O-ring FFKM (for D2C73-200)	40296KR	1
23D	lever shaft O-ring EPDM (for D2C74-200)	40296EP	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Dry Disconnect Bayonet Style Adapters
2" and 3" Adapters

2" Stainless Adapter
Bill of Materials
BA3x-200

Item #	Description	Part #	Qty
1	stainless body	40053SS	1
2	brass poppet	40054BR	1
3	stainless deflector	40055SS	1
4	stainless spring	40056SS	1
5A	NBR O-ring (for BA31-200)	BA31-200RK1	1
5B	FKM O-ring (for BA32-200)	BA32-200RK1	1

3" Aluminum Adapter
Bill of Materials
BA6x-300

Item #	Description	Part #	Qty
1	aluminum body	40278AL	1
2	aluminum poppet	40279AL	1
3	aluminum deflector	40280AL	1
4	stainless steel spring	40281SS	1
5A	NBR O-ring (for BA61-300)	BA31-300RK1	1
5B	FKM O-ring (for BA62-300)	BA32-300RK1	1
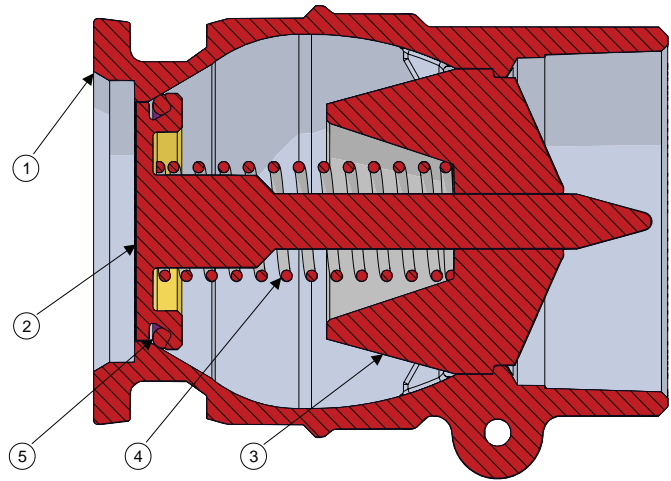
3" Bronze Adapter
Bill of Materials
BA3x-300

Item #	Description	Part #	Qty
1	bronze body	40278BR	1
2	bronze poppet	40279BR	1
3	bronze deflector	40280BR	1
4	stainless steel spring	40281SS	1
5A	NBR O-ring (for BA31-300)	BA31-300RK1	1
5B	FKM O-ring (for BA32-300)	BA32-300RK1	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Dry Disconnect Bayonet Style Couplers
2" Straight Non-Swiveling Couplers

2" Stainless Coupler
Bill of Materials
BC6x-200

Item #	Description	Part #	Qty
1	lever shaft	40138SS	1
2	lever shaft follower	40139SS	1
3	lever	40140SS	1
4	poppet link arm	40141SS	1
5	bent link	40142SS	2
6	stem	40143SS	1
7	interlocking pin	40144SS	1
8	lock ring	40145SS	1
9	nose piece	40146HC	1
10	poppet	40147CA	1
11	coiled pin	40148SS	1
12	bayonet stud	40149SS	3
13A	nose seal NBR (for BC61-200)	40150BN	1
13B	nose seal FKM (for BC62-200)	40150VI	1
14	jam nut	40151SS	3
15	spring pin	40152SS	1
16	coiled pin	40153SS	1
17	rivet	40154SS	2
18	lock nut	40155SS	1
19	wave spring	40159SS	2
20	wave spring washer	40160SS	1
21A	shaft O-ring NBR (for BC61-200)	40162BN	1
21B	shaft O-ring FKM (for BC62-200)	40162VI	1
22A	poppet O-ring NBR (for BC61-200)	40163BN	1
22B	poppet O-ring FKM (for BC62-200)	40163VI	1
23	cotter pin	40164SS	1
24	bumper ring	40166VY	1
25	label	40167AL	1
26	body	---	1
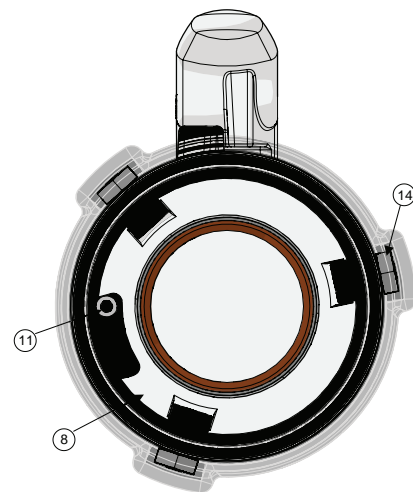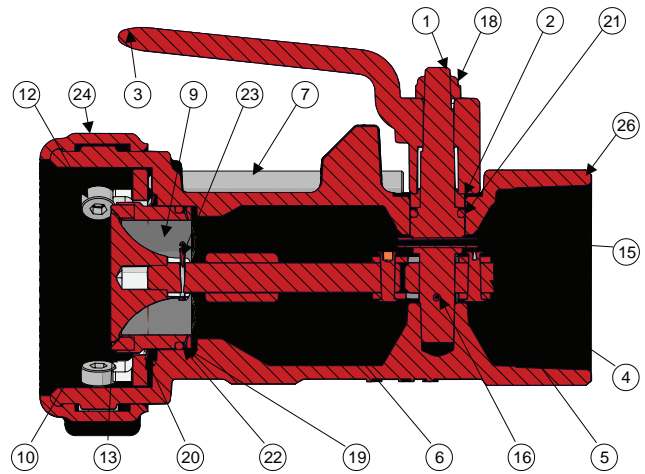
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Dry Disconnect Bayonet Style Couplers
2" 90° Straight Swivel Couplers
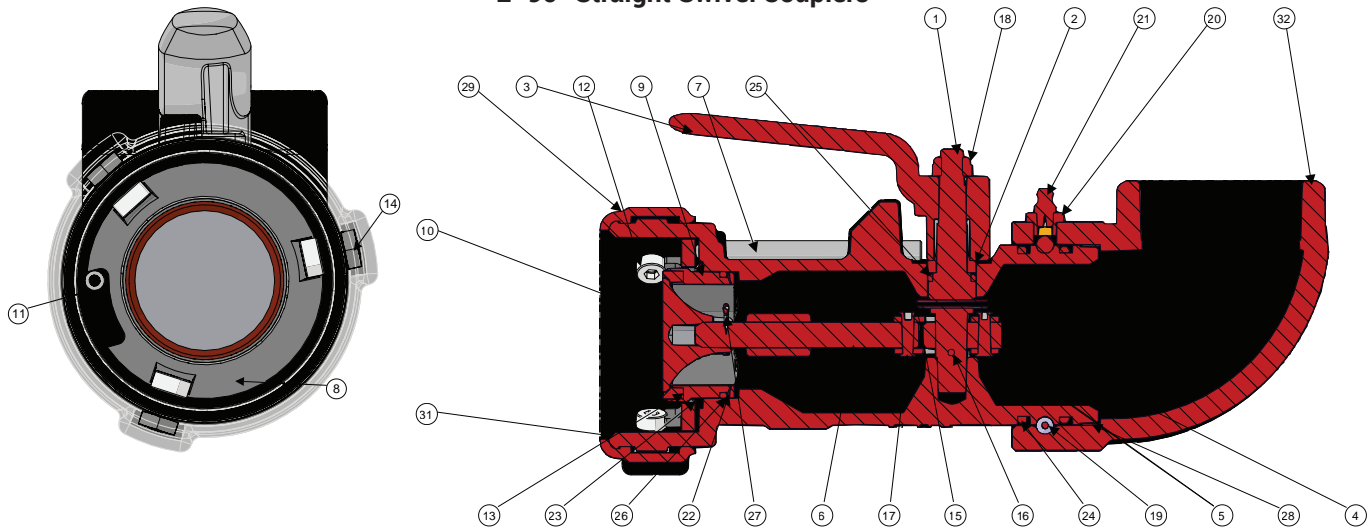
The 90° swivel coupler (BS-Series) is illustrated above. The straight swivel coupler (BSS-Series) uses the same components, except it does not have #21A grease nipple, it utilizes a #21B set screw plug

Bill of Materials BS6x-200 and BSS6x-200

Item #	Description	Part #	Qty
1	lever shaft	40138SS	1
2	follower	40139SS	1
3	lever (handle)	40140SS	1
4	link	40141SS	1
5	belt link	40142SS	2
6	stem	40143SS	1
7	interlocking pin	40144SS	1
8	lock rink	40145SS	1
9	nose piece	40146HC	1
10	poppet	40147CA	1
11	coiled pin	40148SS	1
12	bayonet stud	40149SS	3
13A	NBR nose seal (BS61-200)	40150BN	1
13B	FKM nose seal (BS62-200)	40150VI	1
14	jam nut	40151SS	3
15	spring pin	40152SS	1
16	grooved pin	40153SS	1
17	rivet	40154SS	2
18	lock nut	40155SS	1

Item #	Description	Part #	Qty
19	ball bearing	40156SS	32
20	ball plug	40157BR	1
21A	grease fitting (BS6x-200)	40158ST	1
21B	set screw (BSS6x-200)	40178SS	1
22	wave spring	40159SS	2
23	wave spring washer	40160SS	1
24A	NBR swivel O-ring (BS and BSS61-200)	40161BN	2
24B	FKM swivel O-ring (BS and BSS62-200)	40161VI	2
25A	NBR stem O-ring (BS and BSS61-200)	40162BN	1
25B	FKM stem O-ring (BS and BSS62-200)	40162VI	1
26A	NBR nose O-ring (BS and BSS61-200)	40163BN	1
26B	FKM nose O-ring (BS and BSS62-200)	40163VI	1
27	cotter pin	40164SS	1
28	front bearing strip	40165NY	1
29	bumper ring	40166VY	1
30	label	40161AL	1
31	main body	---	1
32	swivel body	---	1

Repair Kits

Part #	Description	Includes Item #
BS61-200RK1	seal repair kit, NBR nose seal, spring pin, grooved pin, NBR swivel O-rings, NBR stem O-ring, NBR nose body O-ring, cotter pin, bearing strip, and bumper ring	13A, 15, 16, 24A, 25A, 26A, 27, 28, 29
BS62-200RK1	seal repair kit, FKM nose seal, spring pin, grooved pin, FKM swivel O-rings, FKM stem O-ring, FKM nose body O-ring, cotter pin, bearing strip, and bumper ring	13B, 15, 16, 25A, 25B, 26B, 27, 28, 29
BS61-200RK2	swivel seal repair kit, NBR swivel O-rings, and bearing strip	24A, 28
BS62-200RK2	swivel seal repair kit, FKM swivel O-rings, and bearing strip	24B, 28

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

BA/BS/BSS-Series Bayonet Style Dry Disconnects
3″ 90° and Straight Swivel Couplers
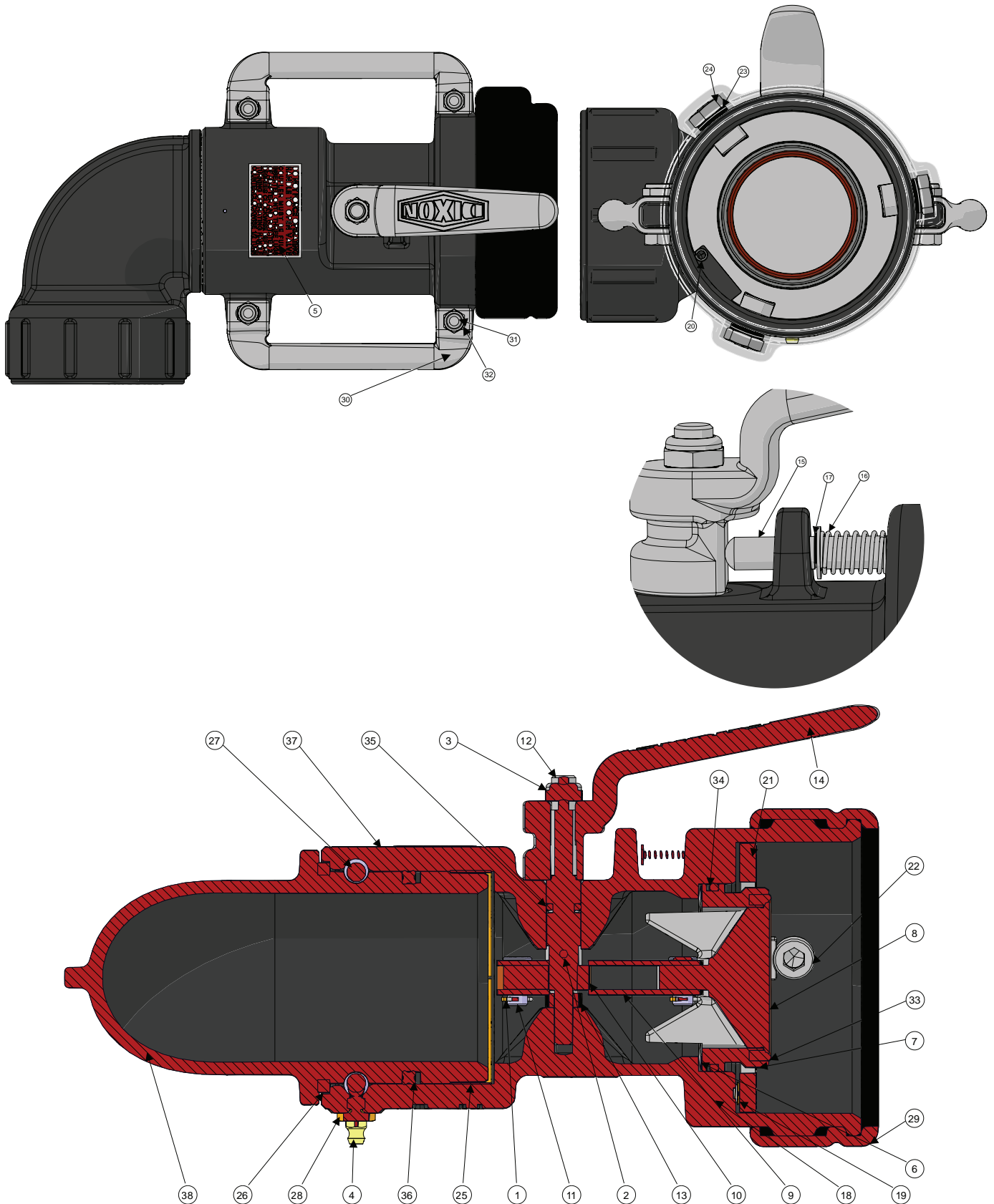
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

BA/BS/BSS-Series Bayonet Style Dry Disconnects

3" 90° and Straight Swivel Couplers

The 90° swivel coupler (BS-Series) is illustrated on page 141
The straight swivel coupler (BSS-Series) uses the same components

3" Swivel Aluminum Coupler
Bill of Materials
BS6x-300 and BSS6x-300

Item #	Description	Part #	Qty
1	cotter pin	40088SS	2
2	spring pin	40152SS	1
3	lock nut	40155SS	1
4	grease fitting	40158ST	1
5	label	40167AL	1
6	wave spring	40246SS	1
7	nose piece	40247HC	1
8	poppet	40248CA	1
9	bent link	40249SS	2
10	drive link	40250SS	1
11	clevis pin	40251SS	2
12	stem	40252SS	1
13	stem spacer	40253AL	1
14	lever (handle)	40254SS	1
15	interlock pin	40255SS	1
16	compression spring	40256SS	1
17	retaining ring	40257ST	1
18	compression spring	40258SS	3
19	eyelet	40259BR	3
20	spring pin	40260SS	1
21	lock ring	40261SS	1
22	bayonet stud	40262SS	3
23	lock washer	40263SS	3
24	nut	40264SS	3
25	bearing strip	40265NY	1
26	dust seal	40266FL	1
27	ball bearings	40267SS	27
28	ball plug	40268BR	1
29	bumper ring	40269VY	1
30	grip handle	40270SS	2
31	bolt	40271SS	4
32	lock nut	40272SS	4
33A	NBR nose seal	40273BN	1
33B	FKM nose seal	40273VI	1
34A	NBR nose body O-ring	40274BN	1
34B	FKM nose body O-ring	40274VI	2
35A	NBR stem O-ring	40275BN	1
35B	FKM stem O-ring	40275VI	1
36A	NBR quad ring	40276BN	1
36B	FKM quad ring	40276VI	1
37	main body	---	1
38	swivel body	---	1

Repair Kits

Part #	Description	Includes Item #
BS61-300RK1	seal repair kit, NBR nose seal, spring pin, NBR swivel O-rings, NBR stem O-ring, NBR nose body O-ring, cotter pin, bearing strip, and bumper ring	1, 2, 25, 29, 33A, 34A, 35A
BS62-300RK1	seal repair kit, FKM nose seal, spring pin, FKM swivel O-rings, FKM stem O-ring, FKM nose body O-ring, cotter pin, bearing strip, and bumper ring	1, 2, 25, 26, 29, 33B, 34B, 35B, 36B
BS61-300RK2	swivel seal repair kit, NBR swivel O-rings, and bearing strip	25, 26, 36A
BS62-300RK2	swivel seal repair kit, FKM swivel O-rings, and bearing strip	25, 26, 36B
BS62-300RK3	complete rebuild kit BS62-300	2, 6, 7, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 29, 33B, 34B, 35B

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

DB14 and DB15-Series Breakaways
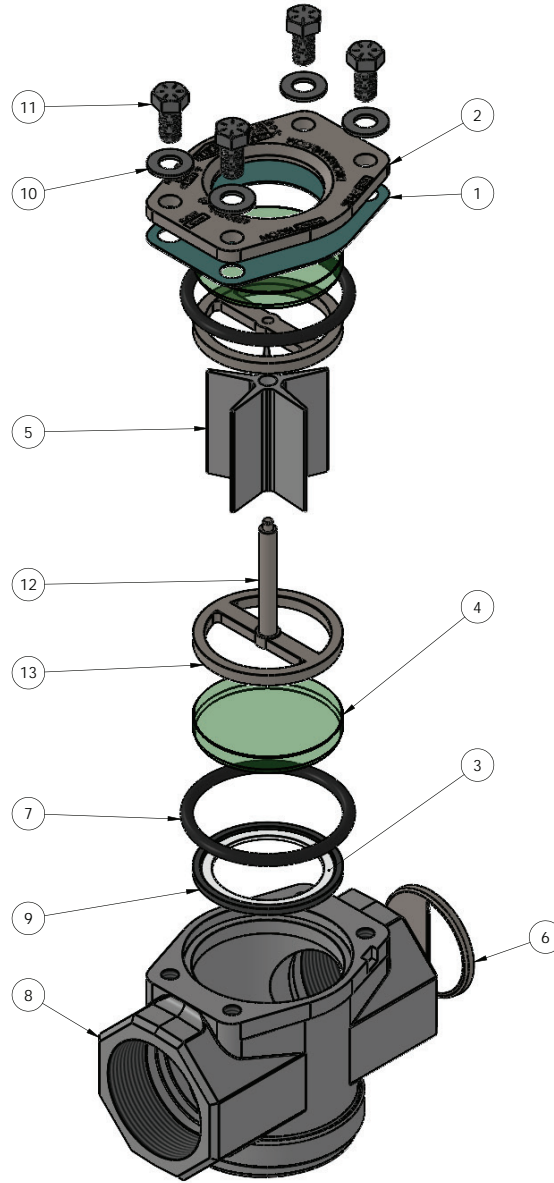
Bill of Materials

Item #	Description	Part #	Qty
1	gasket	40612FI	1
2	cap	40611SS	1
3	spacer	40614TF	1
4	sight glass	40616GL	2
5	flywheel	40619	1
6	flow diverter	40618SS	1
7	O-ring	40617	2
8	body machined	40613SS	1

Item #	Description	Part #	Qty
9	seal	40615	1
10	washer	40610ST	4
11	bolt	40609ST	4
12	shaft	40620SS	1
13	retaining bridge	40621SS	2

112D and 112DNS (1-1/2") Bulk Delivery Nozzles

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	main poppet assembly	use kit 112DSK	1
3	secondary poppet assembly	use kit 112DSK	1
4	poppet spring	SPRG-L368	1
5	NBR cap O-ring	O-RING#132	1
6	bronze cap	112DAL-9	1
7	valve stem assembly	use kit 112DSK	1
8	trigger	use kit 114/2D-TK	1
9	trigger bushing	114DAL-10	1
10	trigger pin	PIN-L389-SS	1
11	trigger cotter pin	110746	1
12	ratchet plate	340164	1
13	ratchet plate screws	110798	2
14	spout	1125A	1

Repair Kits

Part #	Description	Includes Item #
112DSK	main poppet, 2nd poppet, cap O-ring, valve stem	2, 3, 5, 7
1125A	1-1/2" aluminum spout	14
1125B	1-1/2" brass spout (optional)	---
114/2D-TK	trigger, pin, cotter pin, bushing	8, 9, 10, 11
114DAL-AV-19	blank plate to replace ratchet plate if ratchet not required (optional)	---
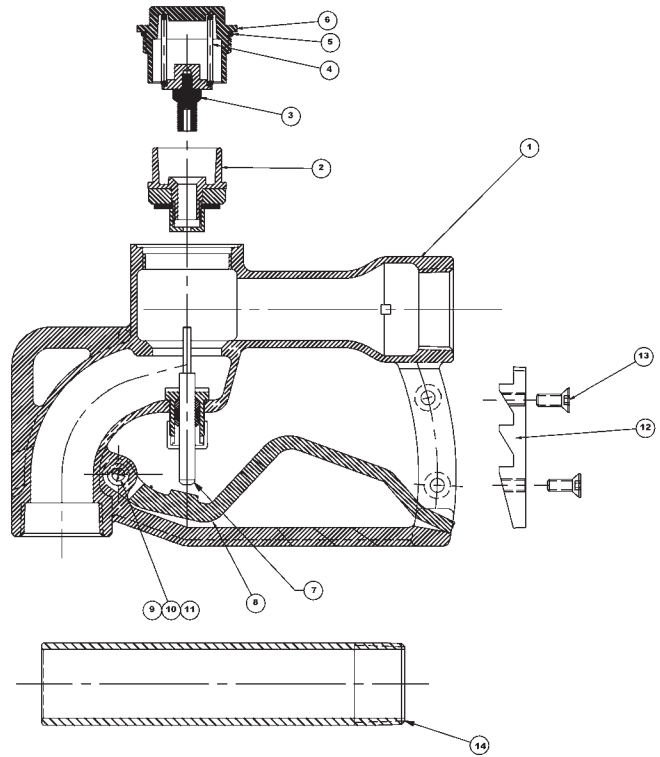
114D and 114DNS (1-1/4") Bulk Delivery Nozzles

Bill of Materials
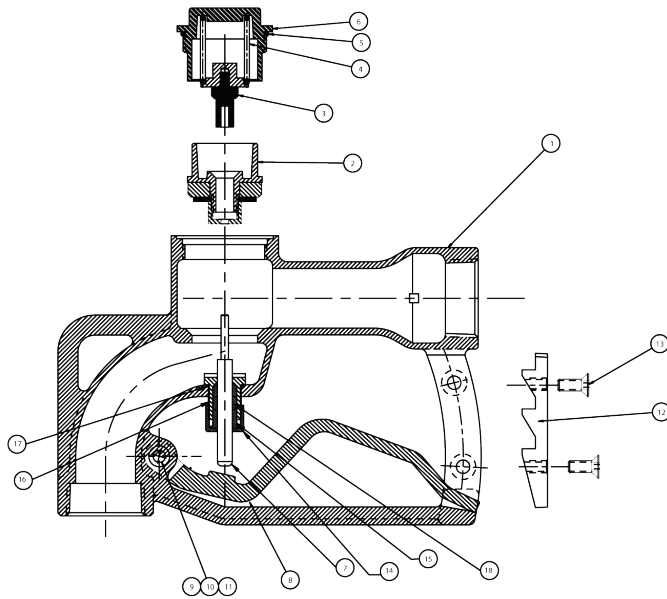
Item #	Description	Part #	Qty
1	body	---	1
2	main poppet assembly	use kit 114DSK	1
3	secondary poppet assembly	use kit 114DSK	1
4	poppet spring	SPRG-L368	1
5	NBR cap O-ring	O-RING-AS-129	1
6	bronze cap	114DAL-2	1
7	valve stem assembly	use kit 114DSK	1
8	trigger	use kit 114/2D-TK	1
9	trigger bushing	114DAL-10	1
10	trigger pin	PIN-L389-SS	1
11	trigger cotter pin	110746	1
12	ratchet plate	340164	1
13	ratchet plate screws	110798	2
14	aluminum spout	use kit 1143A	1
15	sleeve stem packing	SLVL358-1	1
16	valve stem guide and O-ring	use kit 114DSK	1
17	valve stem O-ring	O-RING-AS016	1
18	valve stem packing	STEMPACK-L360	2
19	valve stem nut	NUTL357-1	1

Repair Kits

Part #	Description	Includes Item #
114DSK	main and secondary poppets, cap O-ring, valve stem assembly and packing, sleeve stem packing, and nut	2, 3, 5, 7, 15, 16, 17, 18, 19
114/2D-TK	trigger, pin, bushing, and cotter pin	8, 9, 10, 11
1143A	aluminum spout	14
1143B	optional brass spout	replaces 14
114DAL-AV-19	optional blank plate to replace ratchet plate, if ratchet not desired	replaces 12

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

1250-94-Series Gravity Nozzles

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	trigger	use kit 1250TK	1
3	trigger pin	use kit 1250TK	1
4	valve stem plunger	use kit 1250SK	1
5	plunger O-ring	500-7A2	1
6	valve base	use kit 1250SK	1
7	valve seal	use kit 1250SK	1
8	valve plate	use kit 1250SK	1
9	valve spring	SPRG-L368	1
10	aluminum cap	1250-2	1
11	NBR O-ring cap	O-RING#132	1
12	aluminum spout	1250-3	1

Repair Kits

Part #	Description	Includes Item #
1250TK	trigger, pin	2, 3
1250SK	plunger, O-rings, valve seal, valve base, valve plate	4, 5, 6, 7, 8, 11
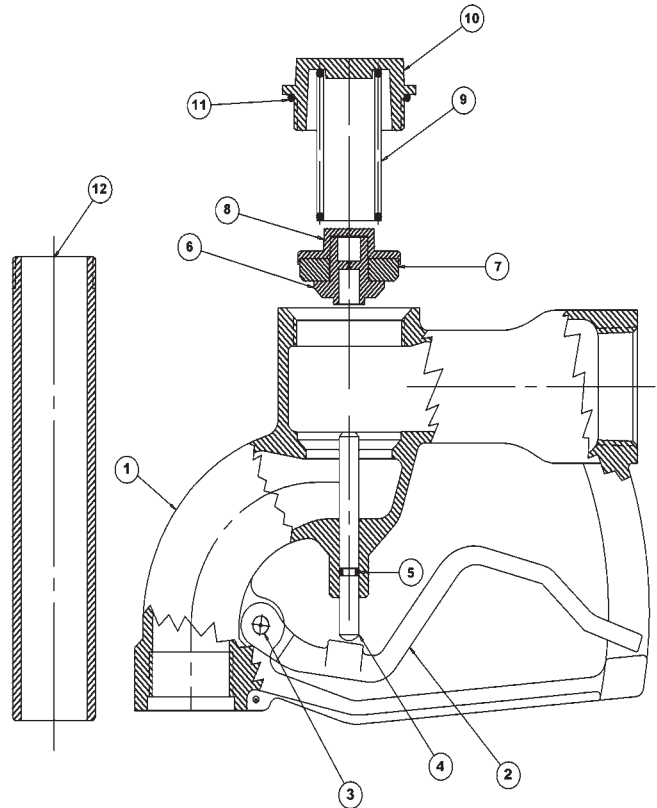
900-Series Utility Nozzles

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	plunger	use kit 900SK	1
3	trigger	use kit 900TK	1
4	valve spring	SPRG-972	1
5	cap O-ring	112099	1
6	holder valve gasket	use kit 900SK	1
7	holder button gasket	use kit 900SK	1
8	valve seal	use kit 900SK	1
9	cap	875-3	1
10A	1" spout	875-4	1
10B	3/4" spout	234-80-4	1
10C	1" bent spout	875-5	1
10D	3/4" bent spout	234-80-5	1
not illustrated	3/4" FNPT inlet reducer	900RB	1

Repair Kits

Part #	Description	Includes Item #
900TK	trigger	3
900SK	plunger assembly, valve assembly, cap O-ring	2, 4, 5, 6, 7, 8, 9
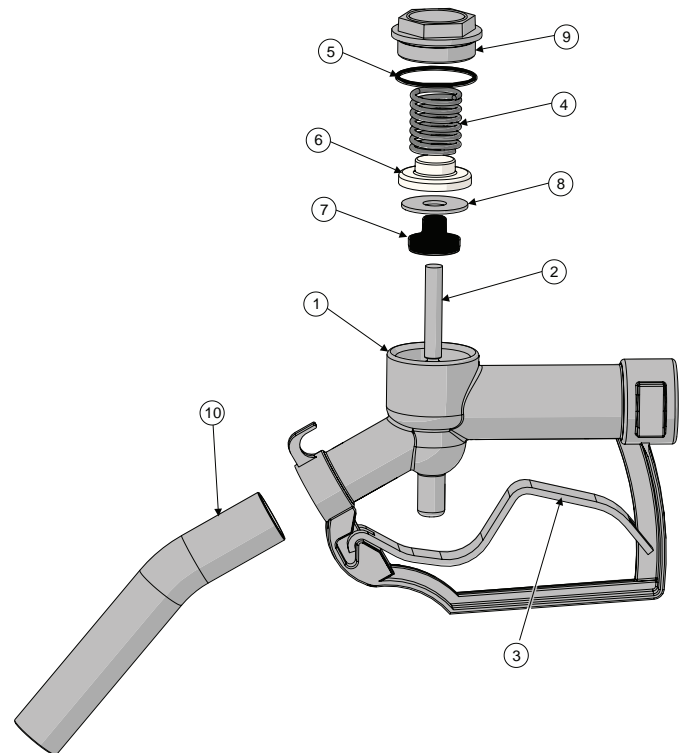
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

SWMF125, SWMF150, and SWMF200 Swivels
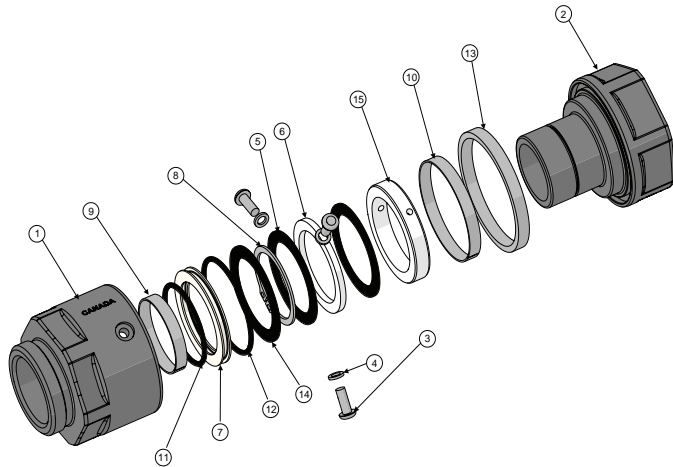
SWMF125
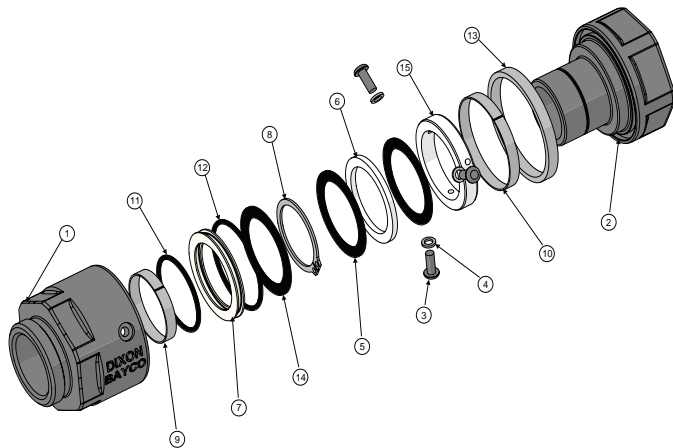
SWMF150
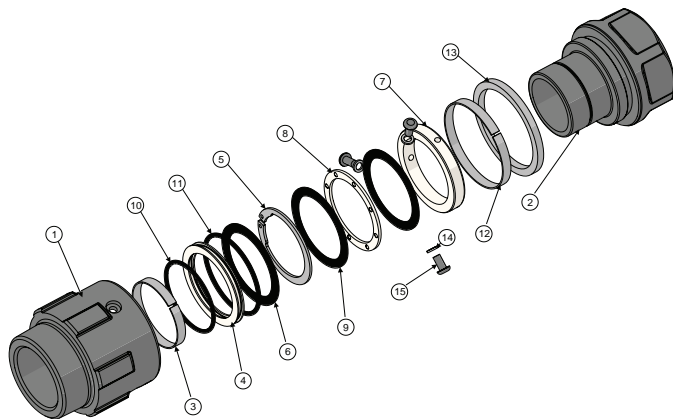
SWMF200

Bill of Materials		SWMF125 and SWMF150	
Item #	**Description**	**Part #**	**Qty**
1	female body	---	1
2	male body	---	1
3	screw	use kit SWMF-RK2	3
4	lock washer	use kit SWMF-RK2	3
5	thrust bearing	use kit SWMF-RK3	1
6	thrust washer	use kit SWMF-RK3	2
7	O-ring holder	use kit SWMF-RK2 or SWMF-RK3	1
8	retaining ring	use kit SWMF-RK3	1
9	front bearing	use kit SWMF-RK2 or SWMF-RK3	1
10	rear bearing	use kit SWMF-RK2 or SWMF-RK3	1
11	O-ring	use kit SWMF-RK2 or SWMF-RK3	1
12	O-ring	use kit SWMF-RK2 or SWMF-RK3	1
13	felt ring	use kit SWMF-RK2 or SWMF-RK3	1
14	support washer	use kit SWMF-RK3	1
15	support ring	use kit SWMF-RK3	1

Bill of Materials		SWMF200	
Item #	**Description**	**Part #**	**Qty**
1	female body	---	1
2	male body	---	1
3	front bearing	use kit SWMF-RK22 or SWMFRK32	3
4	O-ring holder	use kit SWMF-RK22 or SWMFRK32	3
5	retaining ring	use kit SWMF-RK32	1
6	support washer	use kit SWMF-RK32	1
7	support ring	use kit SWMF-RK32	1
8	thrust washer	use kit SWMF-RK32	2
9	thrust bearing	use kit SWMF-RK32	1
10	O-ring	use kit SWMF-RK22 or SWMFRK32	1
11	large O-ring	use kit SWMF-RK22 or SWMFRK32	1
12	rear bearing	use kit SWMF-RK22 or SWMFRK32	1
13	felt ring	use kit SWMF-RK22 or SWMFRK32	1
14	lock washer	use kit SWMF-RK32	3
15	screw	use kit SWMF-RK32	3

Repair Kits

Part #	**Description**	**Includes Item #**
SWMF-RK1	swivel grease nipple kit	---
SWMF-RK2	swivel seal and wear kit	3, 4, 7, 9, 10, 11, 12, 13
SWMF-RK3	complete swivel rebuild kit	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15
SWMF-RK22	swivel seal and wear kit	3, 4, 10, 11, 12, 13
SWMF-RK32	complete rebuild kit	3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Hose Shank and Check Valve Swivels

Check Valve NPT Swivel

Part #	Description
1280	1-1/4" MNPT x 1-1/4" FNPT
1580U	1-1/2" MNPT x 1-1/2" FNPT
1580R	1-1/4" MNPT x 1-1/2" FNPT

Hose x MNPT Swivel

Part #	Description
1265	1-1/4" MNPT x 1-1/4" hose shank
1565U	1-1/2" MNPT x 1-1/2" hose shank
1570	1-1/2" MNPT x 1-3/8" hose shank

Repair Kits

Part #	Description
1200SK	seal kit and retaining ring for 1280, 1265, and 1580R
1500SK	seal kit and retaining ring for 1565U, 1580U
1570RK	seal kit and retaining ring for 1570

500AV and 525AV Angle Valves

Repair Kit

Part #	Description
500K	stem guide assembly, plunger assembly, O-ring, and cotter pin

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com
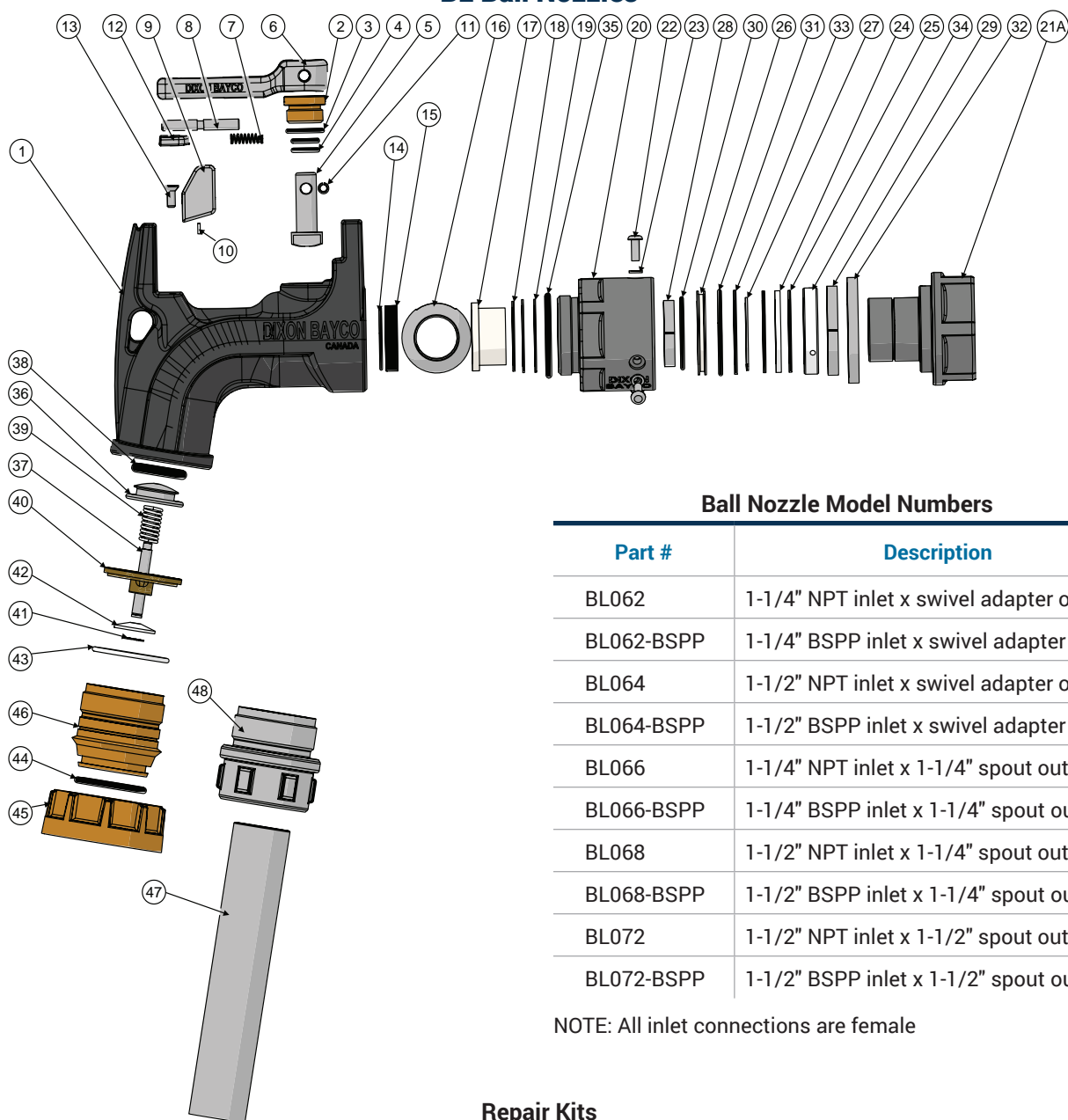
BL Ball Nozzles

Ball Nozzle Model Numbers

Part #	Description
BL062	1-1/4" NPT inlet x swivel adapter outlet
BL062-BSPP	1-1/4" BSPP inlet x swivel adapter outlet
BL064	1-1/2" NPT inlet x swivel adapter outlet
BL064-BSPP	1-1/2" BSPP inlet x swivel adapter outlet
BL066	1-1/4" NPT inlet x 1-1/4" spout outlet
BL066-BSPP	1-1/4" BSPP inlet x 1-1/4" spout outlet
BL068	1-1/2" NPT inlet x 1-1/4" spout outlet
BL068-BSPP	1-1/2" BSPP inlet x 1-1/4" spout outlet
BL072	1-1/2" NPT inlet x 1-1/2" spout outlet
BL072-BSPP	1-1/2" BSPP inlet x 1-1/2" spout outlet

NOTE: All inlet connections are female

Repair Kits

Part #	Description	Includes Item #
SWMF-RK1	inlet swivel grease nipple kit (optional)	not illustrated
SWMF-RK2	inlet swivel seal and wear kit	22, 23, 26, 28, 29, 30, 31, 32
SWMF-RK3	complete inlet swivel rebuild kit	22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34
SWMF-RK4	1-1/2" FNPT replacement inlet swivel	20, 21B, 22 (3), 23 (3), 24, 25 (2), 26, 27, 28, 29, 30, 31, 32, 33, 34, 35
SWMF-RK5	1-1/4" FNPT replacement inlet swivel	20, 21A, 22 (3), 23 (3), 24, 25 (2), 26, 27, 28, 29, 30, 31, 32, 33, 34, 35
SWMF-RK6	1-1/2" BSPP replacement inlet swivel	20, 21C, 22 (3), 23 (3), 24, 25 (2), 26, 27, 28, 29, 30, 31, 32, 33, 34, 35
BL005	swivel outlet (BL062, BL064)	43, 44, 45, 46
BL-RK4	ball valve shaft seal kit	2, 3, 4, 5
BL-RK10	complete ball nozzle seal kit	3, 4, 14, 15, 17, 35, 38, 43, 44
BL-RK11	optional check valve **5 PSI** spring kit	39B, 43
BL-RK12	standard check valve **3 PSI** cartridge kit	36, 37, 38, 39A, 40, 41, 42, 43
BL-RK13	trigger kit	6, 7, 8, 9, 10, 11, 12, 13 (2)

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

BL Ball Nozzles

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	bronze guide shaft	use kit BL-RK4	1
3	O-ring	use kit BL-RK4 or BL-RK10	1
4	O-ring	use kit BL-RK4 or BL-RK10	2
5	shaft lever	use kit BL-RK4	1
6	lever	use kit BL-RK13	1
7	compression spring	use kit BL-RK13	1
8	shaft latch	use kit BL-RK13	1
9	latch	use kit BL-RK13	1
10	screw	use kit BL-RK13	1
11	pin	use kit BL-RK13	1
12	lever plate	use kit BL-RK13	1
13	screw	use kit BL-RK13	2
14	O-ring	use kit BL-RK10	1
15	seal	use kit BL-RK10	1
16	ball	BL062-2	1
17	ball seat	use kit BL-RK10	1
18	washer	111719	1
19	wave spring	110902	2
20	swivel body	use kit SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
21A	swivel inlet 1-1/4" NPT	use kit SWMF-RK5	1
21B	swivel inlet 1-1/2" NPT	use kit SWMF-RK4	1
21C	swivel inlet 1-1/2" BSPP	use kit SWMF-RK6	1
22	screw	use kit SWMF-RK2, SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	3
23	lock washer	use kit SWMF-RK2, SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	3
24	thrust bearing	use kit SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
25	thrust washer	use kit SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	2
26	O-ring holder	use kit SWMF-RK2, SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
27	retaining ring	use kit SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
28	font bearing	use kit SWMF-RK2, SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
29	rear bearing	use kit SWMF-RK2, SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
30	O-ring	use kit SWMF-RK2, SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
31	O-ring	use kit SWMF-RK2, SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
32	dust seal	use kit SWMF-RK2, SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
33	support washer	use kit SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
34	support ring	use kit SWMF-RK3, SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
35	O-ring	use kit SWMF-RK4, SWMF-RK5 or SWMF-RK6	1
36	poppet	use kit BL-RK12	1
37	stem	use kit BL-RK12	1
38	O-ring	use kit BL-RK10 or BL-RK12	1
39A	compression spring (**3 PSI**)	use kit BL-RK12	1
39B	compression spring (**5 PSI**)	use kit BL-RK11	1
40	bridge	use kit BL-RK12	1
41	retaining ring	use kit BL-RK12	1
42	washer	use kit BL005, BL-RK10, BL-RK11 or BL-RK12	1
43	O-ring	use kit BL005, BL-RK10 or BL-RK12	1
44	O-ring	use kit BL005	1
45	swivel nut	use kit BL005	1
46	swivel adapter	use kit BL005	1
47A	spout 1-1/4"	1143A	1
47B	spout 1-1/2"	1125A	1
48A	spout adapter 1-1/4" NPT	341703	1
48B	spout adapter 1-1/2" NPT	BL007	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

BL Super Ball Nozzles
BL918, BL919, and BL920
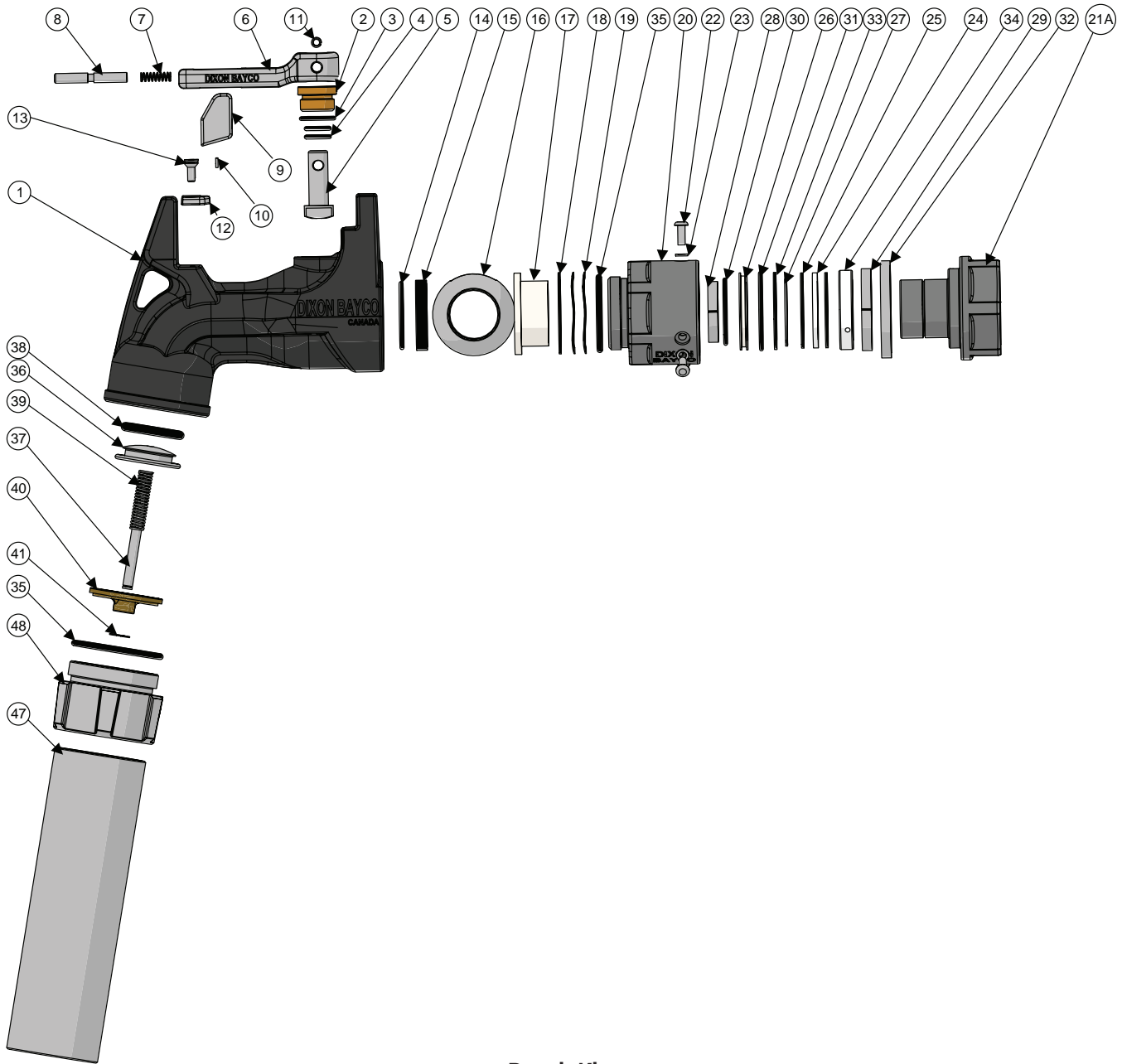
Repair Kits

Part #	Description	Includes Item #
SWMF-RK1	inlet swivel grease nipple kit (optional)	not illustrated
SWMF-RK22	inlet swivel seal and wear kit	22, 23, 26, 28, 29, 30, 31, 32
SWMF-RK32	complete inlet swivel rebuild kit	22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34
SWMF-RK42	2" FNPT replacement inlet swivel	20, 21A, 22 (3), 23 (3), 24, 25 (2), 26, 27, 28, 29, 30, 31, 32, 33, 34, 35
SWMF-RK52	1-1/2" FNPT replacement inlet swivel	20, 21B, 22 (3), 23 (3), 24, 25 (2), 26, 27, 28, 29, 30, 31, 32, 33, 34, 35
BL-RK42	ball valve shaft seal kit	2, 3, 4, 5
BL-RK102	complete ball nozzle seal kit	3, 4, 14, 15, 17, 35, 38
BL-RK112	optional check valve **5 PSI** spring kit	35, 39B
BL-RK122	standard check valve **3 PSI** cartridge kit	35, 36, 37, 38, 39, 40, 41
BL-RK13	trigger kit	6, 7, 8, 9, 10, 11, 12, 13 (2)

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

BL Super Ball Nozzles
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	bronze guide shaft	use kit BL-RK42	1
3	O-ring	use kit BL-RK42 or BL-RK102 (includes item 35)	2
4	O-ring	use kit BL-RK42 or BL-RK102 (includes item 35)	1
5	shaft lever	use kit BL-RK42	1
6	lever	use kit BL-RK13	1
7	compression spring	use kit BL-RK13	1
8	shaft latch	use kit BL-RK13	1
9	latch	use kit BL-RK13	1
10	screw	use kit BL-RK13	1
11	pin	use kit BL-RK13	1
12	lever plate	use kit BL-RK13	1
13	screw	use kit BL-RK13	2
14	O-ring	use kit BL-RK102	1
15	seal	use kit BL-RK102	1
16	ball	112091	1
17	ball seat	use kit BL-RK102	1
18	washer	112092	1
19	wave spring	112090	2
20	swivel body	use kit SWMF-RK42 or SWMF-RK52	1
21A/21B	swivel inlet	use kit SWMF-RK42 or SWMF-RK52	1
22	screw	use kit SWMF-RK22, SWMF-RK42 or SWMF-RK52	3
23	lock washer	use kit SWMF-RK22, SWMF-RK42 or SWMF-RK52	3
24	thrust bearing	use kit SWMF-RK42 or SWMF-RK52	1
25	thrust washer	use kit SWMF-RK42 or SWMF-RK52	2
26	O-ring holder	use kit SWMF-RK22, SWMF-RK32, SWMF-RK42 or SWMF-RK52	1
27	retaining ring	use kit SWMF-RK32 (includes items 22, 23, 24, 25, 33, 34), SWMF-RK42 or SWMF-RK52	1
28	front bearing	use kit SWMF-RK22, SWMF-RK32, SWMF-RK42 or SWMF-RK52	1
29	rear bearing	use kit SWMF-RK22, SWMF-RK32, SWMF-RK42 or SWMF-RK52	1
30	O-ring	use kit SWMF-RK22, SWMF-RK32, SWMF-RK42 or SWMF-RK52	1
31	O-ring	use kit SWMF-RK22, SWMF-RK32, SWMF-RK42 or SWMF-RK52	1
32	dust seal	use kit SWMF-RK22, SWMF-RK32, SWMF-RK42 or SWMF-RK52	1
33	support washer	use kit SWMF-RK42 or SWMF-RK52	1
34	support ring	use kit SWMF-RK42 or SWMF-RK52	1
35	O-ring	use kit SWMF-RK42 or SWMF-RK52	1
36	poppet	use kit BL-RK122	1
37	stem	use kit BL-RK122	1
38	O-ring	use kit BL-RK102 (includes item 35) or BL-RK122	1
39A/39B	compression spring	use kit BL-RK112 or BL-RK122	1
40	bridge	use kit BL-RK122	1
41	retaining ring	use kit BL-RK122	1
47A/47B	spout	391137 (2")/1125A (1-1/2")	1
48A/48B	spout adapter	341780 (NPT)/341781 (BSPP)	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FT208-39xP-Series Plug-n-Play Monitors with Integrated Dual Sockets
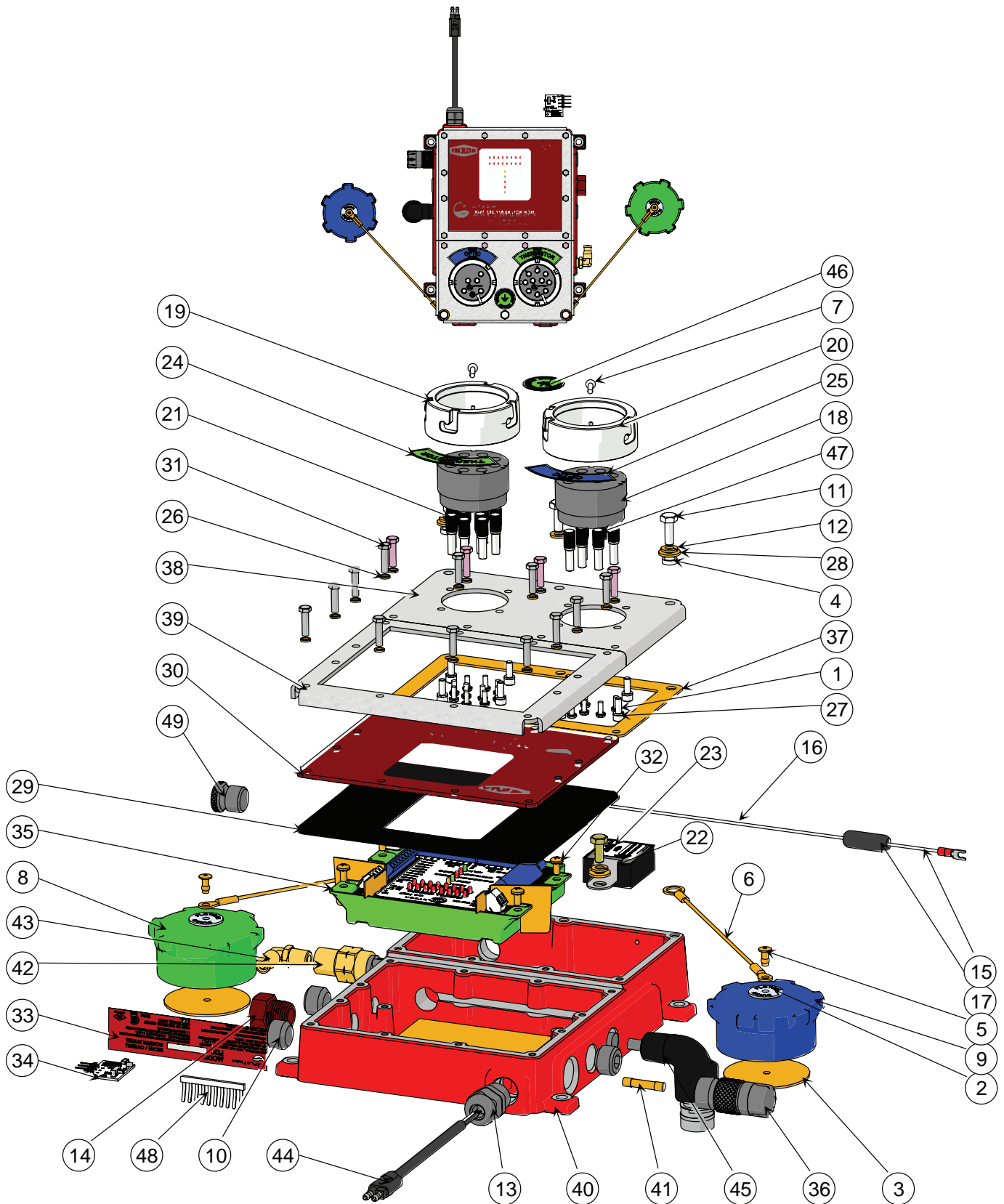
Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Monitors with Integrated Dual Sockets

Bill of Materials — Quantity of Components Per Unit

Item #	Description	Part #	FT208-390P	FT208-390PG	FT208-390PGS	FT208-390PGSO	FT208-390PGST	FT208-390PGSTO	FT208-390PGT	FT208-390PP	FT208-390PPG	FT208-390PPGS	FT208-390PPGSO	FT208-390PPGST	FT208-390PPGSTO	FT208-390PPGT	FT208-391P	FT208-391PG	FT208-391PGS	FT208-391PGST	FT208-391PGT	FT208-391PP	FT208-391PPG	FT208-391PPGS	FT208-391PPGST	FT208-391PPGT
1	stainless steel screw	10086	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
2	aluminum name plate - socket washer	use kit FT320 or FT321	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	aluminum washer 2.500" x .0625"	use kit FT320 or FT321	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4	stainless steel spacer	10089	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5	aluminum rivet .1875"	use kit FT320 or FT321	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6	stainless steel cable - socket 8"	use kit FT320 or FT321	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7	stainless steel screw - contact block	10094	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
8	vinyl dust cap - thermistor (green)	use kit FT321	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	vinyl dust cap - optic (blue)	use kit FT320	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	polypropylene pipe plug	10103	4	4	4	4	4	4	4	3	3	3	3	3	3	3	4	4	4	4	4	3	3	3	3	3
11	stainless steel screw	10110	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
12	stainless steel lock washer	10111	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
13	polyamide strain relief	10139	---	---	---	1	---	1	---	---	---	---	1	---	1	---	---	---	---	---	---	---	---	---	---	---
14	reset switch assy	10200A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	ground wire assembly	10735-002	---	1	1	1	1	1	1	---	1	1	---	1	1	1	---	1	1	1	1	---	1	1	1	1
16	ground wire assembly	10735-002	---	1	1	1	1	1	1	---	1	1	---	1	1	1	---	1	1	1	1	---	1	1	1	1
17	ground wire assembly	10735-002	---	1	1	1	1	1	1	---	1	1	---	1	1	1	---	1	1	1	1	---	1	1	1	1
18	plastic contact block - socket short	10254	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	stainless steel ring 4 J-slot	10366SS-001 (was FT9044)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2
20	stainless steel ring 3 J-slot	10366SS-002 (was FT9043)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	---	---	---	---	---	---	---	---	---	---
21	stainless steel socket pin - short	10368SS (was FT9061)	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
22	ground wire assembly	10735-002	---	1	1	1	1	1	1	---	1	1	---	1	1	1	---	1	1	1	1	---	1	1	1	1
23	Trailer Identification Module	10372	---	---	---	---	1	1	1	---	---	---	---	1	1	1	---	---	---	1	1	---	---	---	1	1
24	aluminum name plate - thermistor	10373AL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	aluminum name plate - optic	10374AL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	stainless steel lock washer	10375SS	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
27	stainless steel screw	10376SS	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
28	stainless steel washer	10382SS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29	neoprene gasket	10432NP (was FT9045)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	acrylic bezel	10433PL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31	stainless steel screw	10436SS	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
32	stainless steel screw - sems	10437SS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
33	chrome mylar label	10438A	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
34	programming board assembly	10459 (was FT9035)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
35	potted OBM	10465	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36	fuse holder assembly	10596PLAC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37	cork gasket - lid	10597CK	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38	aluminum faceplate	10598AL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39	aluminum frame	10599AL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
40	aluminum housing	10600AL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
41	glass fuse 1/2" amp	10601	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
42	brass pressure switch	10602BR	---	---	1	1	1	1	---	---	1	1	1	1	1	---	---	---	1	1	---	---	1	1	1	---
43	brass dot air brake swivel fitting	10603BR	---	---	1	1	1	1	---	---	1	1	1	1	1	---	---	---	1	1	---	---	1	1	1	---
44	power wire Plug-n-Play	10612	---	---	1	1	1	1	---	---	1	1	1	1	1	---	---	---	---	---	---	---	---	---	---	---
45	OBM plug elbow assy (Plug-n-Play)	10616SSBN	1	1	1	1	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	2	2	2	2	2
46	aluminum label - ground bolt	10621AL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
47	plastic black button insert	BLACK BUTTON INSERT	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
48	jumper cross connector	10196	1	1	---	---	1	1	1	1	1	---	---	---	1	1	1	1	---	---	1	1	1	---	---	1
49	acetal plug	10606AC-002	1	1	---	---	1	1	1	1	1	---	---	---	1	1	1	1	---	---	1	1	1	---	---	1

Repair Kits

Part #	Description	Includes Item #
FT320	blue (optic) vinyl cap assembly	2, 3, 5, 6, 9
FT321	green (thermistor) vinyl cap assembly	2, 3, 5, 6, 8
FT9051	contact assembly for FT390/393 optic 5 pin	1, 7, 18, 21
FT9052	contact assembly for FT390/393 thermistor 10 pin	1, 7, 18, 21
FT9062	nose ring contact assbly, thermistor 4 J-slot, 10 pin	1, 7, 18, 19, 21
FT9063	nose ring contact assembly, optic 3 J-slot, 6 pin	1, 7, 18, 20, 21
FT9068	contact block attachment screws and washers (4 each)	26, 27

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FT208P-Series Plug-n-Play Stand Alone Monitors
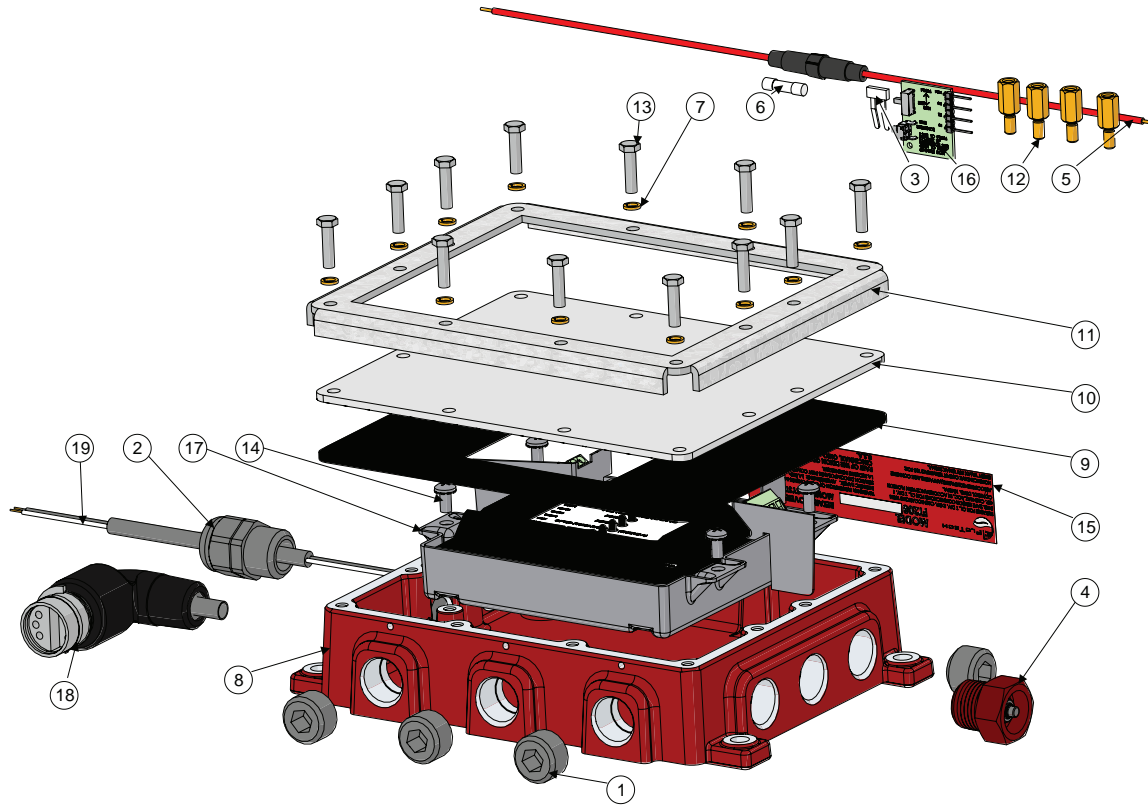
Bill of Materials

Item #	Description	Part #	FT208P	FT208PP	FT208PPC
1	polypropylene pipe plug	10103	6	4	3
2	polyamide strain relief	10139	1	1	2
3	jumper-cross connector	10196	1	1	1
4	reset switch assembly	10200A	1	1	1
5	plastic fuse holder	10356	1	1	1
6	brass/glass fuse-1/2" amp	10358 (was FT9039)	1	1	1
7	stainless steel lock washer	10375SS	12	12	12
8	aluminum box	10430AL	1	1	1
9	neoprene gasket	10432NP (was FT9045)	1	1	1
10	acrylic bezel	10433PL	1	1	1
11	aluminum frame	10434AL	1	1	1
12	aluminum standoff (old style boxes)	10435AL	4	4	---
13	stainless steel screw	10436SS	12	12	12
14	stainless steel screw-stems	10437SS	4	4	4
15	chrome mylar label	10438A	1	1	1
16	programming board assembly	10459 (was FT9035)	1	1	1
17	potted OBM	10465	1	1	1
18	OBM plug elbow assy (Plug-n-Play)	10616SSBN	1	3	3
19	power cable	10639	1	1	---

Repair Kits

Part #	Description	Includes Item #
FT9036	lid, bezel, screws and lockwashers	7, 9, 10, 11, 13
FT9040	checkmate housing with lid	1, 7-14

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Stand Alone Sockets FT300P and FT301P

Repair Kits

Part #	Description	Includes Item #
FT320	blue (optic) vinyl cap assembly	6, 7, 9, 10, 14B
FT321	green (thermistor) vinyl cap assembly	6, 7, 9, 10, 14A
FT310	face plate assembly-API optic ALH wear ring 6 pin 3 J-slot (US)	2-16, 18-22
FT310SS	face plate assembly-API optic SS GFL wear ring 6 pin 3 J-slot (US)	2-16, 18-22
FT311	face plate assembly-API thermistor ALH wear ring 8 pin 4 J-slot (US)	2-22
FT311SS	face plate assembly-API thermistor SS GFL wear ring 8 pin 4 J-slot (US)	2-22
FT9008	contact block for FT300 optic	2, 3, 5, 13
FT9009	contact block for FT301 thermistor	2, 3, 5, 13
FT9013	faceplate 4 J-slot (without contact block or hardware)	4, 15B, 18A, 19-21
FT9020	socket pin, screw and crimp lug	3, 5
FT9034	3 J-slot (without contact block and hardware)	4, 15A, 18B, 19-21
FT9046	socket contact pins and screws	3, 5
FT9068	contact block attachment screws and washers (4 each)	19, 20
0387P-OP, 10387P-TH	wiring harness (Plug-n-Play) 20'	Refer to page 155 for image
10605PL	plastic clip	Refer to page 155 for image

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Stand Alone Sockets FT300P and FT301P
Bill of Materials

Item #	Description	Part #	FT300P	FT301P	FT310	FT310SS	FT311	FT311SS
1	aluminum housing	10031 (was FT9007)	1	1	---	---	---	---
2	plastic contact block	10690PL-001	1	1	1	1	1	1
3	stainless steel socket pin	10368SS	6	8	6	6	8	8
4	neoprene gasket	10038 (was FT9032)	1	1	1	1	1	1
5	stainless steel screw	10086	6	8	6	6	8	8
6	aluminum name plate-socket washer	use cap kit FT320 or FT321	1	1	1	1	1	1
7	aluminum washer 2.500" x .0625"	use cap kit FT320 or FT321	1	1	1	1	1	1
8	stainless steel spacer	10089	1	1	1	1	1	1
9	aluminum rivet .1875"	use cap kit FT320 or FT321	1	1	1	1	1	1
10	stainless steel cable-socket 8"	use cap kit FT320 or FT321	1	1	1	1	1	1
11	stainless steel lock washer	10092	2	2	2	2	2	2
12	stainless steel screw	10093	2	2	2	2	2	2
13	stainless steel screw-contact block	10094	1	1	1	1	1	1
14A	vinyl dust cap-thermistor (green)	use cap kit FT321	---	1	---	---	1	1
14B	vinyl dust cap-optic (blue)	use cap kit FT320	1	---	1	1	---	---
15A	aluminum name plate-FT300	10099	1	---	1	1	---	---
15B	aluminum name plate-FT301	10100	---	1	---	---	1	1
16	assembly hardware	10106	1	1	1	1	1	1
17	nylon clamp assembly	10264	---	1	---	---	1	1
18A	ALH wear ring-4 J-slot	10366HC-001 (was FT9042)	---	1	---	---	1	---
18B	ALH wear ring-3 J-slot	10366HC-002 (was FT9041)	1	---	1	---	---	---
18C	stainless steel wear ring-4 J-slot	10366SS-001 (was FT9044)	---	---	---	---	---	1
18D	stainless steel wear ring-3 J-slot	10366SS-002 (was FT9043)	---	---	---	1	---	---
19	stainless steel lock washer	10375SS	4	4	4	4	4	4
20	stainless steel screw	10376SS	4	4	4	4	4	4
21	aluminum socket plate	10431AL	1	1	1	1	1	1
22	plastic black button insert	BLACK BUTTON INSERT	6	6	6	6	6	6
23	wiring harness (Plug-n-Play) 20'	10387P-20	1	1	---	---	---	---
24	plastic clip	10605PL	1	1	---	---	---	---

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Stand Alone Sockets FT306P-5
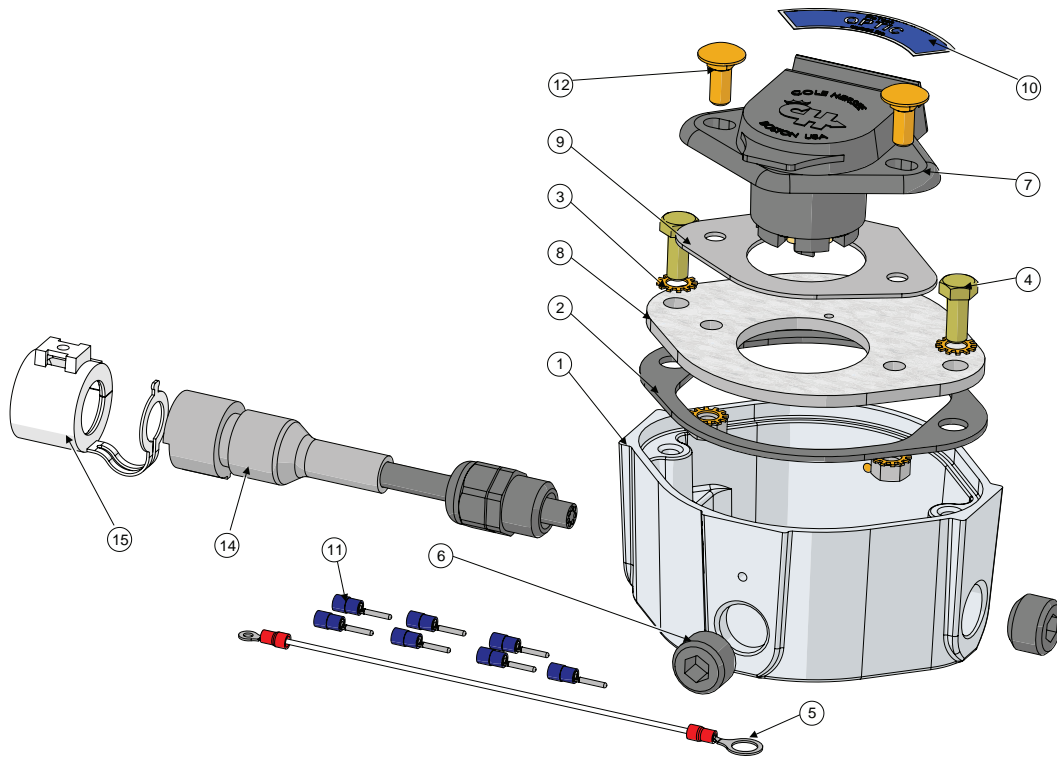
Bill of Materials

Item #	Description	Part #	FT208P	FT208PPC
1	aluminum housing	10031 (was FT9007)	1	---
2	neoprene gasket	10038 (was FT9032)	1	1
3	stainless steel lock washer	10092	4	4
4	stainless steel screw	10093	2	2
5	wire, assembly, socket	10095	1	1
6	polypropylene pipe plug	10103	2	2
7	J560 type socket	10119 (was FT9029)	1	1
8	aluminum face plate	10120	1	1
9	neoprene gasket	10121	1	1
10	aluminum name plate-optic	10235	1	1
11	terminal pin	10123	7	7
12	stainless steel carriage bolt	10507SS	2	2
13	stainless steel nut	10508SS	2	2
14	wiring harness (Plug-n-Play) 20'	10387P-20	1	---
15	plastic clip	10605PL	1	---

Repair Kit

Part #	Description	Includes Item #
FT316	face plate assembly-optic J560 socket	2-13

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Stand Alone Sockets FT390PG-20

Bill of Materials

Item #	Description	Part #	Qty
1	stainless steel screw	10086	16
2	aluminum name plate-socket washer	use kit FT320 or FT321	2
3	aluminum washer 2.500" x .0625"	use kit FT320 or FT321	2
4	stainless steel spacer	10089	2
5	aluminum rivet .1875"	use kit FT320 or FT321	2
6	stainless steel cable-socket 8"	use kit FT320 or FT321	2
7	stainless steel screw-contact block	10094	2
8	vinyl dust cap-green	use kit FT321	1
9	vinyl dust cap-blue	use kit FT320	1
10	polypropylene pipe plug	10103	2
11	steel screw-plug	10105	3
12	stainless steel screw	10110	6
13	stainless steel lock washer-1/4"	10111	7
14	stainless steel ground bolt	10223	1
15	stainless steel nut-ground bolt 1/2"-13	10224	1

Item #	Description	Part #	Qty
16	stainless steel lock washer internal tooth	10225	1
17	plastic contact block-socket short	10254	2
18	aluminum box-dual socket	10364AL-001	1
19	aluminum faceplate-dual socket	10365AL	1
20	stainless steel socket-thermistor	10366SS-001	1
21	stainless steel socket-optic	10366SS-002	1
22	cork gasket-lid	10367CK	1
23	stainless steel socket pin-short	10368SS (was FT9061)	16
24	vinyl label-socket contact	10369VY	2
25	stainless steel bracket-ground bolt	10370SS	1
26	aluminum name plate-thermistor	10373AL	1
27	aluminum name plate-optic	10374AL	1
28	stainless steel lock washer	10375SS	8
29	stainless steel screw	10376SS	8
30	stainless steel screw	10377SS	1
31	stainless steel washer	10382SS	2
32	wiring harness (Plug-n-Play) 20'	10387P-20	1
33	plastic clip	10605PL	1
34	aluminum label-ground bolt	10621AL	1
35	plastic black button insert	BLACK BUTTON INSERT	6

Repair Kits

Part #	Description	Includes Item #
FT320	blue (optic) vinyl cap assembly	2, 3, 5, 6, 9
FT321	green (thermistor) vinyl cap assembly	2, 3, 5, 6, 8
FT9051	contact block assembly for FT390/FT393 optic 5 pin	1, 7, 17, 23, 24
FT9052	contact block assembly for FT390/FT393 thermistor 10 pin	1, 7, 17, 23, 24
FT9062	nose ring,contact assembly, thermistor 4 J-slot, 10 pin	1, 7, 17, 20, 23, 24
FT9063	nose ring,contact assembly, optic 3 J-slot, 6 pin	1, 7, 17, 21, 23, 24
FT9068	contact block attachment screws and washers (4 each)	28, 29

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Stand Alone Sockets FT394P and FT395P-Series
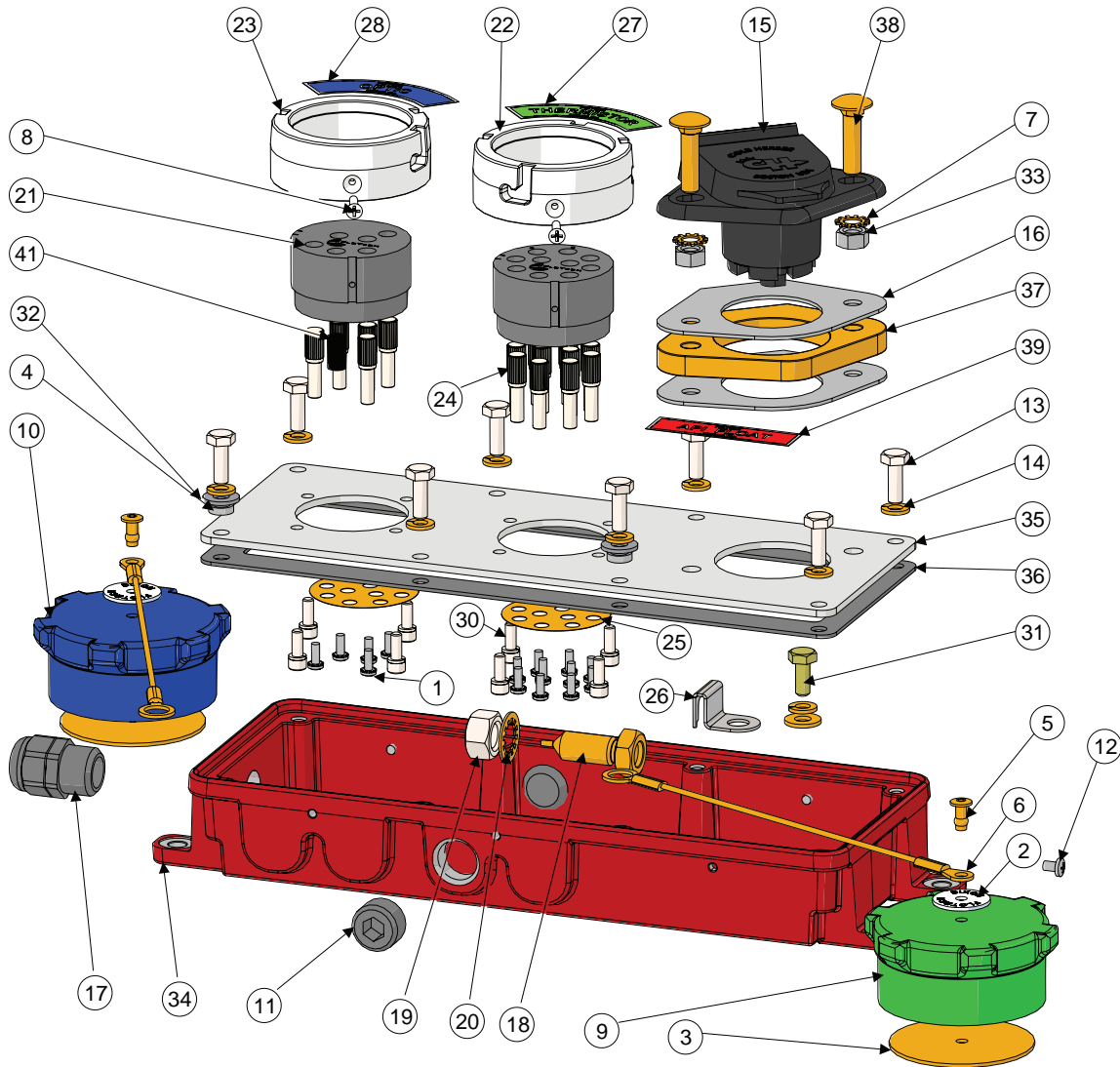
Repair Kits

Part #	Description	Includes Item #
FT320	blue (optic) vinyl cap assembly	2, 3, 5, 6, 10
FT321	green (thermistor) vinyl cap assembly	2, 3, 5, 6, 9
FT9051	contact block assembly for FT390/FT393 optic 5 pin	1, 8, 21, 24, 25
FT9052	contact block assembly for FT390/FT393 thermistor 10 pin	1, 8, 21, 24, 25
FT9062	nose ring contact assembly, thermistor 4 J-slot, 10 pin	1, 8, 21, 22, 24, 25
FT9063	nose ring contact assembly, optic 3 J-slot, 6 pin	1, 8, 21, 23, 24, 25
FT9068	contact block attachment screws and washers (4 each)	29, 30

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Stand Alone Sockets FT394P and FT395P-Series
Bill of Materials

Item #	Description	Part #	FT394P	FT394VP	FT394PG	FT394VPG	FT395PG-20
1	stainless steel screw	10086	16	16	16	16	16
2	aluminum name plate-socket washer	10087	2	2	2	2	2
3	aluminum washer 2.500" x .0625"	use kit FT320 or FT321	2	2	2	2	2
4	stainless steel spacer	use kit FT320 or FT321	2	2	2	2	2
5	aluminum rivet .1875"	use kit FT320 or FT321	2	2	2	2	2
6	stainless steel cable-socket 8"	use kit FT320 or FT321	2	2	2	2	2
7	stainless steel lock washer	10092	2	2	2	2	2
8	stainless steel screw-contact block	10094	2	2	2	2	2
9	vinyl dust cap-thermistor (green)	use kit FT321	1	1	1	1	1
10	vinyl dust cap-optic (blue)	use kit FT320	1	1	1	1	1
11	polypropylene pipe plug	10103	2	2	2	2	2
12	steel screw-plug	10105	4	4	4	4	4
13	stainless steel screw	10110	8	8	8	8	8
14	stainless steel lock washer-1/4"	10111	9	9	9	9	9
15	J560 socket	10119 (was FT9029)	1	1	1	1	1
16	neoprene gasket, float socket	10121	2	2	2	2	2
17	polyamide strain relief	10139	1	1	1	1	1
18	stainless steel ground bolt	10223	---	---	1	1	---
19	stainless steel nut-ground bolt 1/2"-13	10224	---	---	1	1	---
20	stainless steel lock washer internal tooth	10225	---	---	1	1	---
21	plastic contact block-socket short	10254	2	2	2	2	2
22	stainless steel wear ring-4 J-slot	10366SS-001 (was FT9044)	1	1	1	1	2
23	stainless steel wear ring-3 J-slot	10366SS-002 (was FT9043)	1	1	1	1	n/a
24	stainless steel socket pin-short	10368SS (was FT9061)	16	16	16	16	16
25	vinyl label-socket contact	10369VY	2	2	2	2	2
26	stainless steel bracket-ground bolt	10370SS	1	1	1	1	1
27	aluminum name plate-thermistor	10373AL	1	1	1	1	1
28	aluminum name plate-optic	10374AL	1	1	1	1	1
29	stainless steel lock washer	10375SS	8	8	8	8	8
30	stainless steel screw	10376SS	8	8	8	8	8
31	stainless steel screw	10377SS	1	1	1	1	1
32	stainless steel washer	10382SS	2	2	2	2	2
33	stainless steel nut	10508SS	2	2	2	2	2
34	aluminum box-3 socket	10525AL	1	1	1	1	1
35	aluminum faceplate-3 socket	10526AL	1	1	1	1	1
36	cork gasket-lid	10527CK	1	1	1	1	1
37	acetal spacer	10529AC	1	1	1	1	1
38	stainless steel carriage bolt	10530SS	2	2	2	2	2
39	aluminum name plate-optic (blue)	10558AL	1	1	1	1	1
40	aluminum label - ground bolt	10621AL	---	---	1	1	---
41	plastic black button insert	BLACK BUTTON INSERT	6	6	6	6	6
42	wiring harness (Plug-n-Play) 20'	10387P-20	1	1	1	1	1
43	plastic clip	10605PL	1	1	1	1	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Sensors FT151P-Series, Overfill Sensor Housings
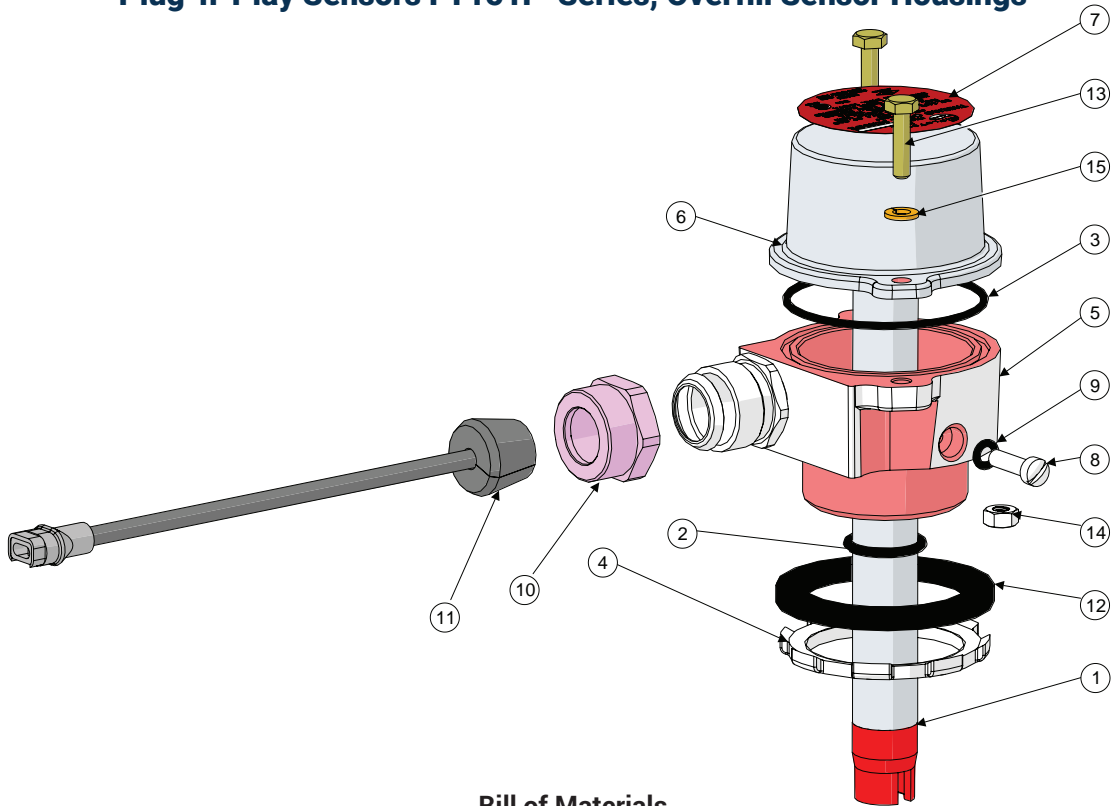
Bill of Materials

Item #	Description	Part #	Qty
1	assembly sensor, thermistor-optic	10109-PP	1
2	O-ring	10125	1
3	O-ring	10126	1
4	lock nut	10128	1
5	sensor housing	10183-P&P	1
6	sensor housing cap	10185	1
7	label	10204	1
8	screw with nylon insert	10212	1
9	O-ring	10213	1
10	cord grip assembly	10248	1
11	bushing	10638	1
12	gasket	250-G-BU	1
13	screw	10841SS	2
14	nut	10124	2
15	lock washer-1/4"	10111	2

Repair Kits

Part #	Description	Includes Item #
FT150P	Plug-n-Play overfill detection probe-7"	1
FT150-12P	Plug-n-Play overfill detection probe-12"	1
FT150-18P	Plug-n-Play overfill detection probe-18"	1
FT9000P	complete Plug-n-Play sensor housing (without probe)	2-14
FT9001	sensor housing gasket and O-ring kit	5, 6, 7, 13
FT9011	sensor housing cap with screws and lock washers	3, 9, 13, 14

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Plug-n-Play Sensors
FT152P Retain Sensor Housings
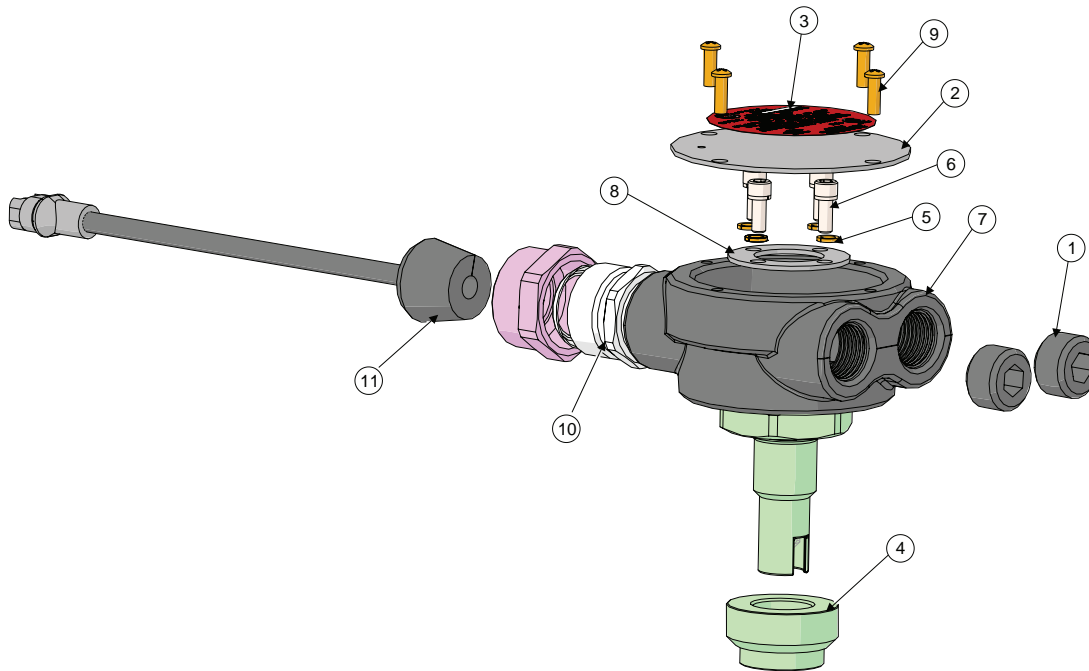
Bill of Materials

Item #	Description	Part #	Qty
1	polypropylene pipe plug	10103	2
2	aluminum retain sensor lid	10134	1
3	mylar label-retain sensor	10343	1
4	aluminum threaded collar	10347 (was FT9050)	1
5	stainless steel lock washer	10375SS	4
6	stainless steel screw	10376SS	4
7	nylon retain sensor housing	10471NY-P&P	1
8	aluminum back-up plate	10476AL	1
9	stainless steel screw	10477SS	4
10	aluminum cord grip assembly	10248	1
11	rubber bushing	10638	1

Repair Kit

Part #	Description	Includes Item #
FT9068	contact block attachment screws and washers (4 each)	5, 6

NOTE: Probe is not replaceable, if probe needs replacing, a complete FT152P needs to be ordered

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FT101, FT151, and FT202-Series Overfill Sensor Housings

Bill of Materials

Item #	Description	Part #	Qty
1	pipe plug	10103	1
2	assembly, sensor 5 wire	10107A	1
3	screw	10841SS	2
4	O-ring	10125	1
5	O-ring	10126	1
6	gasket	250-G-BU	1
7	lock nut	10128	1
8	sensor housing	10183	1
9	sensor housing cap	10185	1
10	label-retain sensor	10203	1
11	screw with nylon insert	10212	1
12	O-ring	10213	1
13	lock washer-1/4"	10111	2
14	nut	10124	2

Repair Kits

Part #	Description	Includes Item #
FT100	5 wire overfill detection probe, 7"	2
FT100-12	5 wire overfill detection probe, 12"	2
FT100-18	5 wire overfill detection probe, 18"	2
FT150	black and white 2 wire overfill detection probe, 7"	2
FT150-12	black and white 2 wire overfill detection probe, 12"	2
FT150-18	black and white 2 wire overfill detection probe, 18"	2
FT201	red and black 2 wire overfill detection probe, 7"	2
FT201-12	red and black 2 wire overfill detection probe, 12"	2
FT201-18	red and black 2 wire overfill detection probe, 18"	2
FT9000	complete sensor housing (without probe)	1, 3-13
FT9001	sensor housing gasket and O-ring kit	5-7, 13
FT9002	sensor housing gasket, O-ring and hardware kit	1, 3-8, 12, 13
FT9011	sensor housing cap with screws and lock washers	3, 9, 13, 14

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com
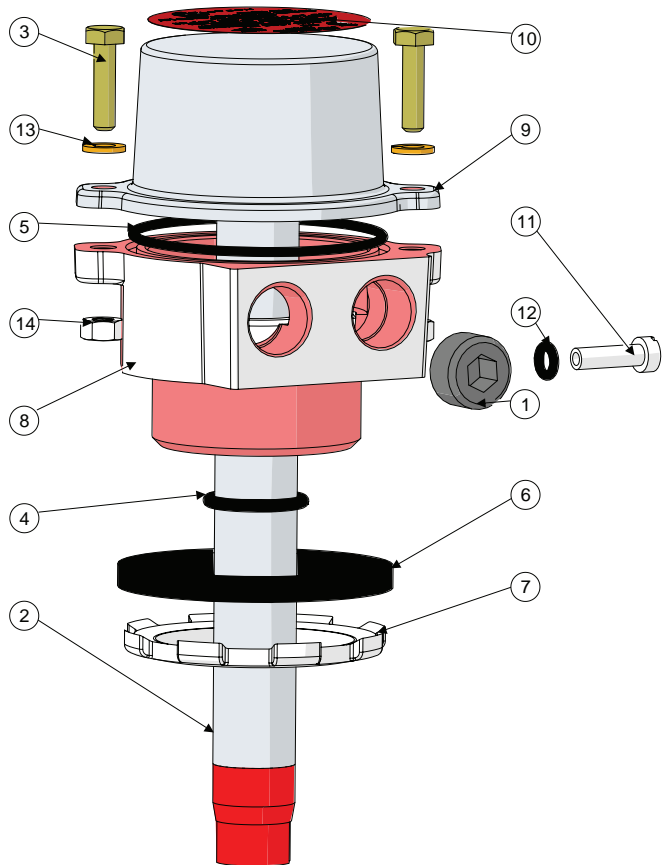
FT152 and FT206 Retain Sensor Housings
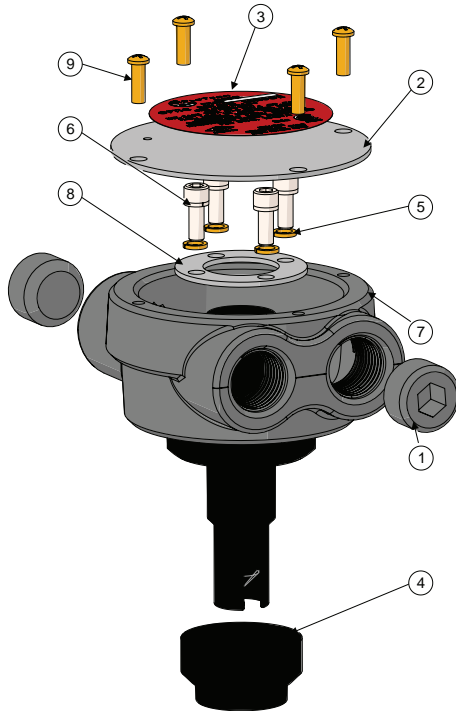
Bill of Materials

Item #	Description	Part #	Qty
1	polypropylene pipe plug	10103	2
2	aluminum retain sensor lid	10134	1
3	mylar label-retain sensor	10343	1
4	aluminum threaded collar	10347 (was FT9050)	1
5	stainless steel lockwasher	10375SS	4
6	stainless steel screw	10376SS	4
7	nylon retain sensor housing	10471NY	1
8	aluminum back-up plate	10476AL	1
9	stainless steel screw	10477SS	4

Repair Kits

Part #	Description	Includes Item #
FT9055	hardware kit	2, 3
FT9068	contact block attachment screws and washers (4 each)	5, 6

NOTE: Probe is not replaceable

FT191S Overfill Sensor Housings
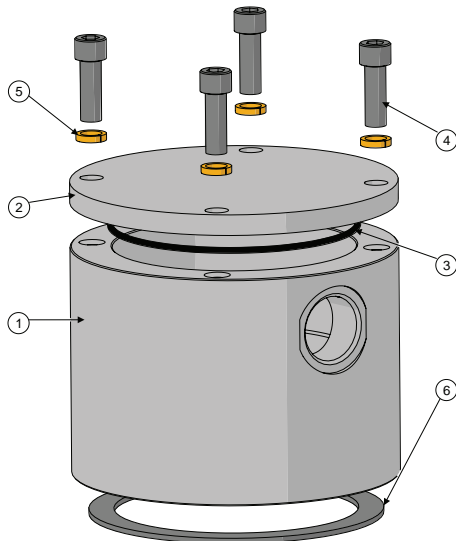
Bill of Materials

Item #	Description	Part #	Qty
1	3" stainless steel NPSM housing	10540SS	1
2	aluminum housing lid	10541AL	1
3	NBR O-ring	10542BN	1
4	stainless steel screw	10554SS	4
5	stainless steel lock washer	40099SS	4
6	PTFE gasket	40190TF	1

Stainless Steel Probes

Part #	Description
FT100S	5 wire overfill detection, 316 stainless steel probe only, 7"
FT150S	black and white 2 wire overfill detection, 316 stainless steel probe only, 7"

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FT102/FT103 5 Wire, API Optic Onboard Monitors
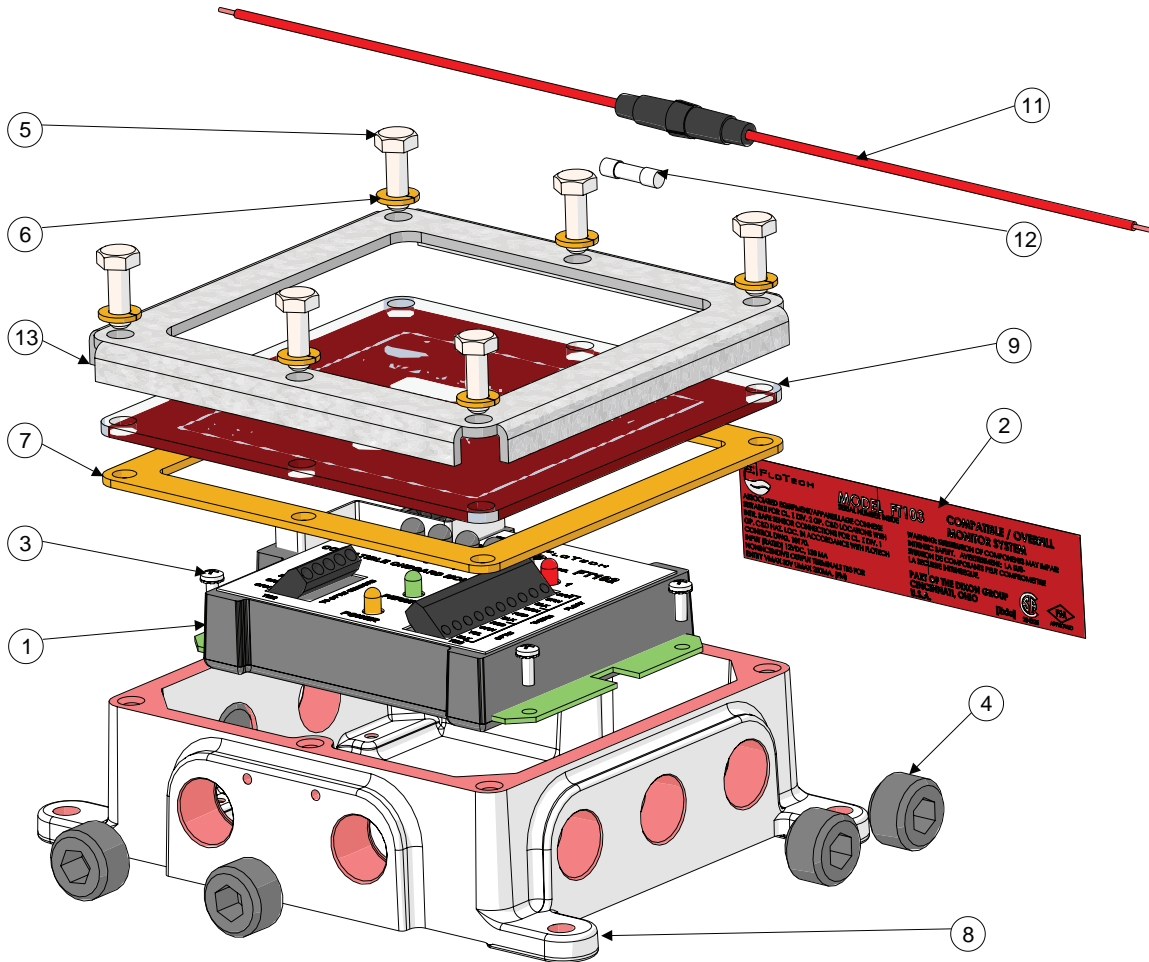
Bill of Materials

Item #	Description	Part #	FT102	FT103
1	5 wire onboard monitor assembly	10077	1	1
2	chrome mylar label	10079	---	1
3	stainless steel screw	10086	4	4
4	polypropylene pipe plug	10103	---	5
5	stainless steel screw	10110	6	6
6	stainless steel lockwasher-1/4"	10111	6	6
7	neoprene gasket	10131 (was FT9053)	1	1
8	aluminum onboard monitor housing	10136	---	1
9	acrylic bezel	10142 (was FT9005)	1	1
10	PVC L.E.D. cover	10207	5	5
11	plastic fuse holder	10356	1	1
12	brass/glass fuse-1/4" amp	10357 (was FT9039)	1	1
13	aluminum frame lid	10470AL	1	1

Repair Kits

Part #	Description	Includes Item #
FT9003	monitor housing	3-10, 13
FT9004	monitor hardware kit	5, 6, 7, 9, 13
FT9030	fuse holder with 1/4" amp fuse	11, 12

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FT203/FT204-Series ROM Type
Red and Black 2 Wire, Onboard Monitor
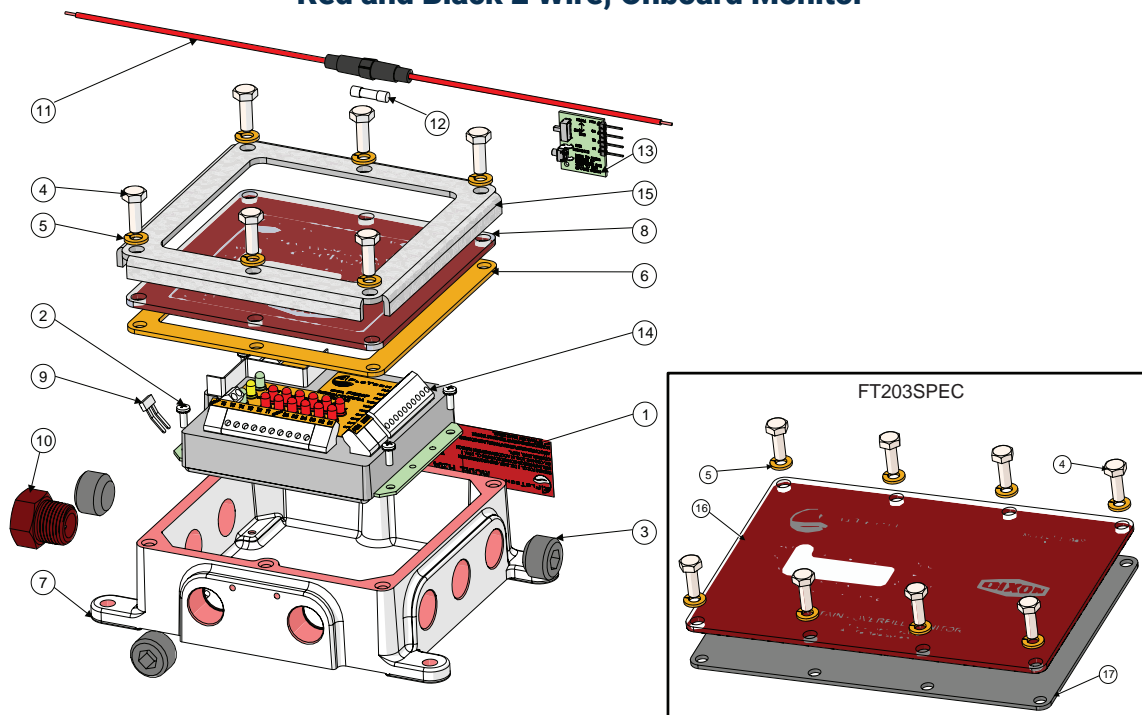
FT203SPEC

Bill of Materials

Item #	Description	Part #	FT203P	FT203SPEC	FT204P
1	chrome mylar label	10078	---	---	1
2	stainless steel screw	10086	4	4	4
3	polypropylene pipe plug	10103	---	---	3
4	stainless steel screw	10110	6	8	6
5	stainless steel lock washer-1/4"	10111	6	8	6
6	neoprene gasket	10131 (was FT9053)	1	---	1
7	aluminum onboard monitor housing	10136	---	---	1
8	acrylic bezel	10143 (was FT9006)	1	---	1
9	jumper-cross connector	10196	1	1	1
10	reset switch assembly	10200A	---	---	1
11	plastic fuse holder	10356	1	1	1
12	brass/glass fuse-1/2" amp	10358 (was FT9039)	1	1	1
13	programming board assembly	10459 (was FT9035)	1	1	1
14	OBM assy potted	10460	1	1	1
15	aluminum frame lid	10470AL (was FT9054)	1	---	1
16	bezel for Civacon 3250 and 3252 boxes	10520PL	---	1	---
17	neoprene gasket for 10520PL	10521NP (was FT9065)	---	1	---

Repair Kits

Part #	Description	Includes Item #
FT9003	monitor housing	2-8, 15
FT9004	monitor hardware kit	4-6, 8, 15
FT9031	fuse holder with 1/2" amp fuse	11, 12
FT9059	faceplate and bezel for FT204P	4, 5, 6, 8, 15
FT9064	gasket and bezel for FT203 SPEC	16, 17

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FT207/FT208-Series Checkmate Black and White 2 Wire, Programmable Onboard Monitor
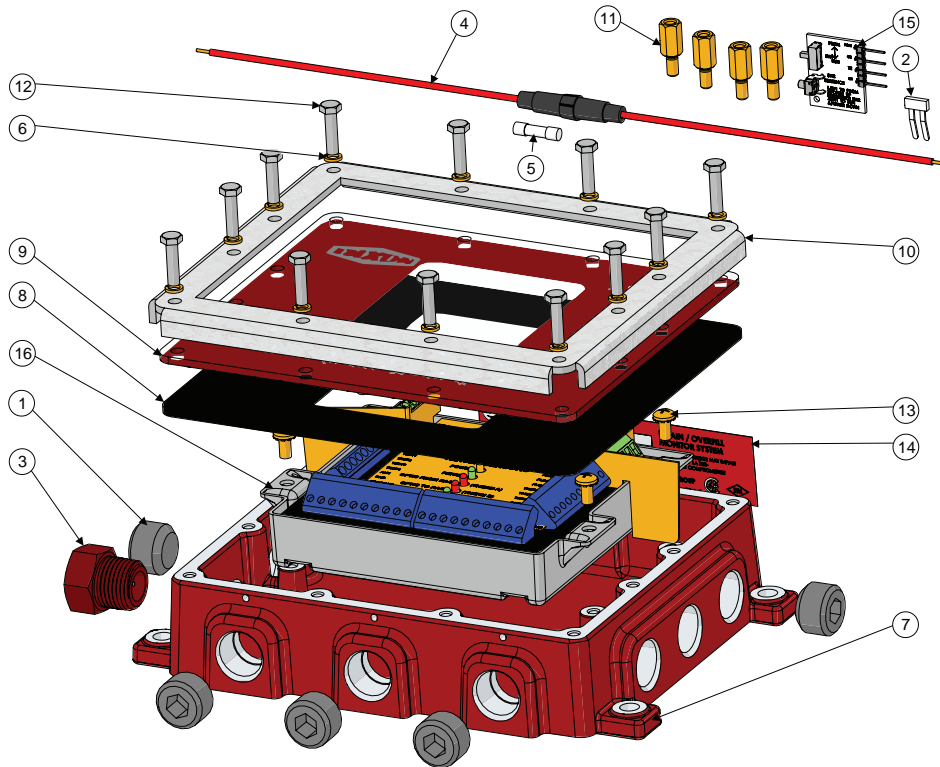
Bill of Materials

Item #	Description	Part #	FT207	FT208
1	polypropylene pipe plug	10103	---	5
2	jumper-cross connector	10196	1	1
3	reset switch assembly	10200A	---	1
4	plastic fuse holder	10356	1	1
5	brass/glass fuse-1/2" amp	10358 (was FT9039)	1	5
6	stainless steel lock washer	10375SS	12	12
7	aluminum box	10430AL	---	1
8	neoprene gasket	10432NP (was FT9045)	1	1
9	acrylic bezel	10433PL (was FT9036)	1	1
10	aluminum frame	10434AL	1	1
11	aluminum standoff (only used in older units)	10435AL	---	4
12	stainless steel screw	10436SS	12	12
13	stainless steel screw-stems	10437SS	4	4
14	chrome mylar label	10438A	---	1
15	programming board assembly	10459 (was FT9035)	1	1
16	potted OBM	10465	1	1

Repair Kits

Part #	Description	Includes Item #
FT9031	fuse holder with 1/2" amp fuse	11, 12
FT9036	lid, bezel, screws and lockwashers	6, 8, 9, 10, 12
FT9040	checkmate housing with lid	1, 6-13

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Single J560 Sockets
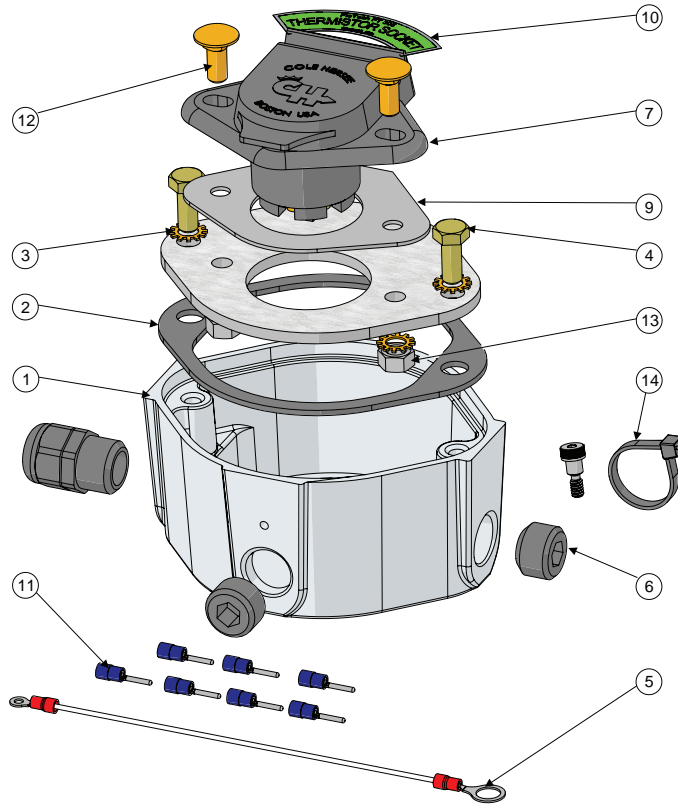
Bill of Materials

Item #	Description	Part #	FT302	FT305	FT306	FT312	FT315	FT316
1	aluminum housing	10031 (was FT9007)	1	1	1	---	---	---
2	neoprene gasket	10038 (was FT9032)	1	1	1	1	1	1
3	stainless steel lock washer	10092	4	4	4	4	4	4
4	stainless steel screw	10093	2	2	2	2	2	2
5	wire, assembly, socket	10095	1	1	1	1	1	1
6	polypropylene pipe plug	10103	2	2	2	2	2	2
7	J560 type socket	10119 (was FT9029)	1	1	1	1	1	1
8	aluminum face plate	10120	1	1	1	1	1	1
9	neoprene gasket	10121	1	1	1	1	1	1
10A	aluminum name plate-float	10122	1	---	---	---	---	---
10B	aluminum name plate-optic	10235	---	---	1	---	1	1
10C	aluminum name plate-thermistor	10244	---	1	---	---	---	---
11	terminal pin	10123	7	7	7	7	7	7
12	stainless steel carriage bolt	10507SS	2	2	2	2	2	2
13	stainless steel nut	10508SS	2	2	2	2	2	2
14	nylon clamp assembly	10264	---	1	---	---	1	---

Repair Kits

Part #	Description	Includes Item #
FT312	face plate assembly-API float J560 socket	2-14
FT315	face plate assembly-thermistor J560 socket	2-14
FT316	face plate assembly-optic J560 socket	2-14

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FT30x-Series Single J-slot Sockets

FT30x-Series Single J-slot Sockets
Bill of Materials

| Item #	Description	Part #	FT300	FT300SS	FT300GW	FT301	FT301SS	FT303	FT303SS	FT304	FT304SS	FT307	FT307SS	FT310	FT310SS	FT311	FT311SS	FT313	FT313SS	FT314	FT314SS	FT317	FT317SS
1	aluminum housing	10031 (was FT9007)	1	1	1	1	1	1	1	1	1	1	1	---	---	---	---	---	---	---	---	---	---
2	plastic contact block	10690PL-001	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3	stainless steel socket pin	10368SS	6	6	6	8	8	6	6	10	10	6	6	6	6	8	8	6	6	10	10	6	6
4	neoprene gasket	10038 (was FT9032)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	stainless steel screw	10086	6	6	6	8	8	6	6	10	10	6	6	6	6	8	8	6	6	10	10	6	6
6	aluminum name plate-socket washer	use cap kit FT320 or FT321	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
7	aluminum washer 2.500" x .0625"	use cap kit FT320 or FT321	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
8	stainless steel spacer	10089	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9	aluminum rivet .1875"	use cap kit FT320 or FT321	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	stainless steel cable-socket 8"	Use cap kit FT320 or FT321	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	stainless steel lock washer	10092	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12	stainless steel screw	10093	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
13	stainless steel screw-contact block	10094	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14A	vinyl dust cap-thermistor (green)	use cap kit FT321	---	---	---	1	1	---	---	1	1	---	---	---	---	1	1	---	---	1	1	---	---
14B	vinyl dust cap-optic (blue)	use cap kit FT320	1	1	1	---	---	1	1	---	---	1	1	1	1	---	---	1	1	---	---	1	1
15A	aluminum name plate-FT300	10099	1	1	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---
15B	aluminum name plate-FT301	10100	---	---	---	1	1	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---
15C	aluminum name plate-FT303	10228	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	1	1	---	---	---	---
15D	aluminum name plate-FT304	10101	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	1	1	---	---
15E	aluminum name plate-FT307	10283	---	---	---	---	---	---	---	---	---	1	1	---	---	---	---	---	---	---	---	1	1
15F	aluminum name plate-FT300GW	10099-002	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16	assembly hardware	10106	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	nylon clamp assembly	10264	---	---	---	1	1	---	---	1	1	---	---	---	---	1	1	---	---	1	1	---	---
18A	ALH wear ring-4 J-slot	10366HC-001 (was FT9042)	---	---	---	1	---	1	---	1	---	1	---	---	---	1	---	1	---	1	---	1	---
18B	ALH wear ring-3 J-slot	10366HC-002 (was FT9041)	1	---	1	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	---
18C	stainless steel wear ring-4 J-slot	10366SS-001 (was FT9043)	---	---	---	---	1	---	1	---	1	---	1	---	---	---	1	---	1	---	1	---	1
18D	stainless steel wear ring-3 J-slot	10366SS-002 (was FT9044)	---	1	---	---	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---
19	stainless steel lock washer	10375SS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
20	stainless steel screw	10376SS	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
21	aluminum socket plate	10431AL	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	plastic black button insert	BLACK BUTTON INSERT	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
23	ground wire assembly	10735	---	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Repair Kits

Part #	Description	Includes Item #
FT320	blue (optic) vinyl cap assembly	6, 7, 9, 10, 14B
FT321	green (thermistor) vinyl cap assembly	6, 7, 9, 10, 14A
FT310	face plate assembly-API optic ALH wear ring 6 pin 3 J-slot (US)	2-16, 18-22
FT310SS	face plate assembly-API optic SS GFL wear ring 6 pin 3 J-slot (US)	2-16, 18-22
FT311	face plate assembly-API thermistor ALH wear ring 8 pin 4 J-slot (US)	2-22
FT311SS	face plate assembly-API thermistor SS GFL wear ring 8 pin 4 J-slot (US)	2-22
FT313	face plate assembly-optic ALH wear ring 6 pin 4 J-slot (US)	2-16, 18-22
FT313SS	face plate assembly-optic SS GFL wear ring 6 pin 4 J-slot (US)	2-16, 18-22
FT314	face plate assembly-thermistor ALH wear ring 10 pin 4 J-slot (Canada)	2-22
FT314SS	face plate assembly-thermistor SS GFL wear ring 10 pin 4 J-slot (Canada)	2-22
FT317	face plate assembly-optic ALH wear ring 6 pin 4 J-slot (Canada)	2-16, 18-22
FT317SS	face plate assembly-optic SS GFL wear ring 6 pin 4 J-slot (Canada)	2-16, 18-22
FT9008	contact block for FT300 optic	2, 3, 5, 13
FT9009	contact block for FT301 thermistor	2, 3, 5, 13
FT9010	contact block for FT304 10 pin thermistor	2, 3, 5, 13
FT9013	faceplate 4 J-slot (no contact block or hardware)	4, 15B, 18A, 19, 21
FT9020	socket pin, screw and crimp lug	3, 5
FT9034	faceplate 3 J-slot, (without contact block and hardware)	4, 15A, 18B, 19, 21
FT9046	socket contact pins, and screws	3, 5
FT9068	contact block attachment screws and washers (4 each)	19, 20

FT390/FT391-Series EZ-Cept Double Sockets
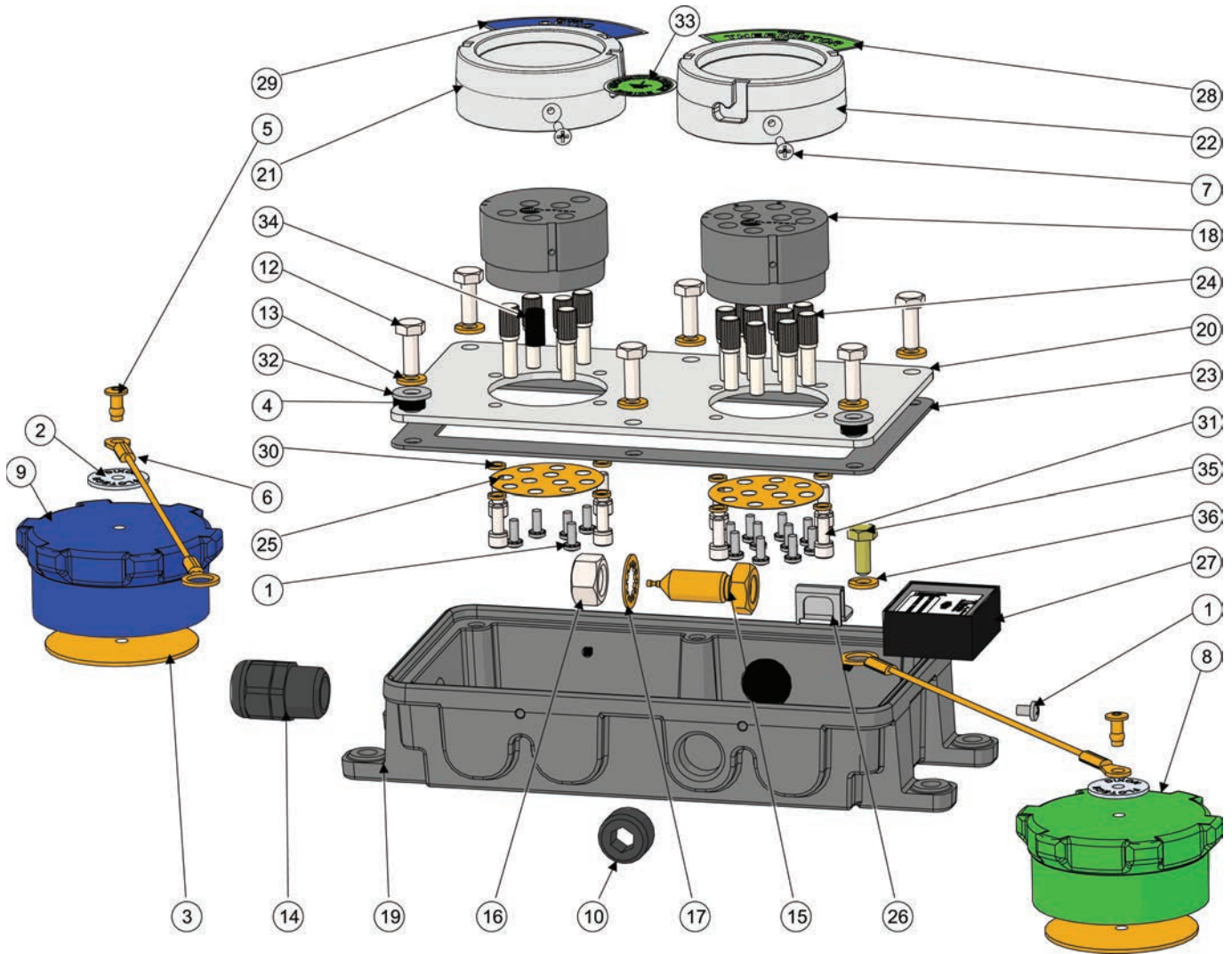
## FT390/FT391-Series EZ-Cept Double Sockets
Bill of Materials

Item #	Description	Part #	FT390	FT390V	FT390G	FT390GT	FT390T	FT390-20	FT390G-20	FT391	FT391V
1	stainless steel screw	10086	15	15	15	15	15	15	15	15	15
2	aluminum name plate-socket washer	use kit FT320 or FT321	2	2	2	2	2	2	2	2	2
3	aluminum washer 2.500" x .0625"	use kit FT320 or FT321	2	2	2	2	2	2	2	2	2
4	stainless steel spacer	10089	2	2	2	2	2	2	2	2	2
5	aluminum rivet .1875"	use kit FT320 or FT321	2	2	2	2	2	2	2	2	2
6	stainless steel cable-socket 8"	use kit FT320 or FT321	2	2	2	2	2	2	2	2	2
7	stainless steel screw-contact block	10094	2	2	2	2	2	2	2	2	2
8	vinyl dust cap-thermistor (green)	use kit FT321	1	1	1	1	1	1	1	1	1
9	vinyl dust cap-optic (blue)	use kit FT320	1	1	1	1	1	1	1	1	1
10	polypropylene pipe plug	10103	2	2	2	2	2	2	2	2	2
11	steel screw-plug	10105	3	3	3	3	3	3	3	3	3
12	stainless steel screw	10110	6	6	6	6	6	6	6	6	6
13	stainless steel lock washer-1/4"	10111	6	6	6	6	6	6	6	6	6
14	polyamide strain relief	10139	1	1	1	1	1	1	1	1	1
15	stainless steel ground bolt	10223	---	---	1	1	---	---	1	---	---
16	stainless steel nut-ground bolt 1/2"-13	10224	---	---	1	1	---	---	1	---	---
17	stainless steel lock washer internal tooth	10225	---	---	1	1	---	---	1	---	---
18	plastic contact block-socket short	10254	2	2	2	2	2	2	2	2	2
19	aluminum box-dual socket	10364AL-001	1	1	1	1	1	1	1	1	1
20	aluminum faceplate-dual socket	10365AL	1	1	1	1	1	1	1	1	1
21	stainless steel wear ring-3 J-slot	10366SS-002	1	1	1	1	1	1	1	---	---
22	stainless steel wear ring-4 J-slot	10366SS-001	1	1	1	1	1	1	1	2	2
23	cork gasket-lid	10367CK	1	1	1	1	1	1	1	1	1
24	stainless steel socket pin-short	10368SS (was FT9061)	15	15	15	15	15	15	15	15	15
25	vinyl label-socket contact	10369VY	2	2	2	2	2	2	2	2	2
26	stainless steel bracket-ground bolt	10370SS	1	1	1	1	1	1	1	1	1
27	trailer identification module	10372	---	---	---	1	1	---	---	---	---
28	aluminum name plate-thermistor	10373AL	1	1	1	1	1	1	1	1	1
29	aluminum name plate-optic	10374AL	1	1	1	1	1	1	1	1	1
30	stainless steel lock washer	10375SS	8	8	8	8	8	8	8	8	8
31	stainless steel screw	10376SS	8	8	8	8	8	8	8	8	8
32	stainless steel washer	10382SS	2	2	2	2	2	2	2	2	2
33	ground bolt label	10621AL	---	---	1	1	---	---	1	---	---
34	plastic black button insert	BLACK BUTTON INSERT	6	6	6	6	6	6	6	6	6
35A	stainless steel screw	10110	---	---	---	1	1	---	---	---	---
35B	stainless steel screw	10377SS	1	1	1	---	---	1	1	1	1
36	stainless steel lock washer-1/4"	10111	1	1	1	1	1	1	1	1	1
not illustrated	20' cable, factory wired to sockets	10387-20	---	---	---	---	---	1	1	---	---

Repair Kits

Part #	Description	Includes Item #
FT320	blue (optic) vinyl cap assembly	2, 3, 5, 6, 9
FT321	green (thermistor) vinyl cap assembly	2, 3, 5, 6, 8
FT9051	contact block assembly for FT390/FT393 optic 5 pin	1, 7, 18, 24, 25
FT9052	contact block assembly for FT390/FT393 thermistor 10 pin	1, 7, 18, 24, 25
FT9062	nose ring,contact assembly, thermistor 4 J-slot, 10 pin	1, 7, 18, 22, 24, 25
FT9063	nose ring,contact assembly, optic 3 J-slot, 6 pin	1, 7, 18, 21, 24, 25
FT9068	contact block attachment screws and washers (4 each)	30, 31

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

FT393/394/395-Series EZ-Cept Triple Sockets
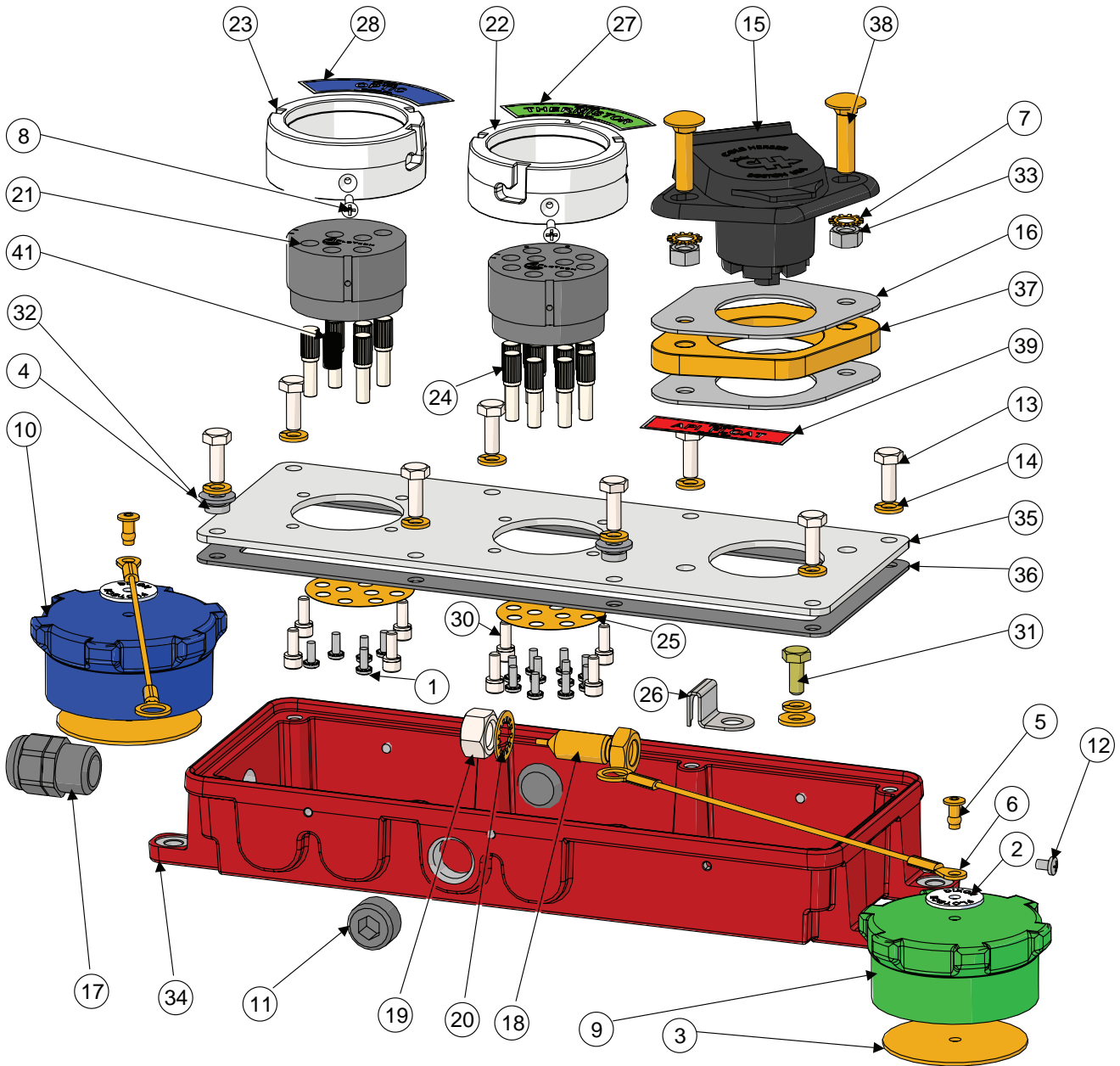
FT393/394/395-Series EZ-Cept Triple Sockets
Bill of Materials

| Item #	Description	Part #	FT393	FT394	FT394G	FT394V-G	FT395	FT395V	FT395G	FT395V-G
1	stainless steel screw	10086	15	15	15	15	15	15	15	15
2	aluminum name plate-socket washer	10087	2	2	2	2	2	2	2	2
3	aluminum washer 2.500" x .0625"	use kit FT320 or FT321	2	2	2	2	2	2	2	2
4	stainless steel spacer	use kit FT320 or FT321	2	2	2	2	2	2	2	2
5	aluminum rivet .1875"	use kit FT320 or FT321	2	2	2	2	2	2	2	2
6	stainless steel cable-socket 8"	use kit FT320 or FT321	2	2	2	2	2	2	2	2
7	stainless steel lock washer	10092	2	2	2	2	2	2	2	2
8	stainless steel screw-contact block	10094	2	2	2	2	2	2	2	2
9	vinyl dust cap-thermistor (green)	use kit FT321	1	1	1	1	1	1	1	1
10	vinyl dust cap-optic (blue)	use kit FT320	1	1	1	1	1	1	1	1
11	polypropylene pipe plug	10103	2	2	2	2	2	2	2	2
12	steel screw-plug	10105	4	4	4	4	4	4	4	4
13	stainless steel screw	10110	8	8	8	8	8	8	8	8
14	stainless steel lock washer-1/4"	10111	9	9	9	9	9	9	9	9
15	J560 socket	10119 (was FT9029)	1	1	1	1	1	1	1	1
16	neoprene gasket, float socket	10121	2	2	2	2	2	2	2	2
17	polyamide strain relief	10139	1	1	1	1	1	1	1	1
18	stainless steel ground bolt	10223	---	---	1	1	---	---	1	1
19	stainless steel nut-ground bolt 1/2"-13	10224	---	---	1	1	---	---	1	1
20	stainless steel lock washer internal tooth	10225	---	---	1	1	---	---	1	1
21	plastic contact block-socket short	10254	2	2	2	2	2	2	2	2
22	stainless steel wear ring-4 J-slot	10366SS-001 (was FT9044)	1	1	1	1	2	2	2	2
23	stainless steel wear ring-3 J-slot	10366SS-002 (was FT9043)	1	1	1	1	---	---	---	---
24	stainless steel socket pin-short	10368SS (was FT9061)	15	15	15	15	15	15	15	15
25	vinyl label-socket contact	10369VY	2	2	2	2	2	2	2	2
26	stainless steel bracket-ground bolt	10370SS	1	1	1	1	1	1	1	1
27	aluminum name plate-thermistor	10373AL	1	1	1	1	1	1	1	1
28	aluminum name plate-optic	10374AL	1	1	1	1	1	1	1	1
30	stainless steel screw	10376SS	8	8	8	8	8	8	8	8
31	stainless steel screw	10377SS	1	1	1	1	1	1	1	1
32	stainless steel washer	10382SS	2	2	2	2	2	2	2	2
33	stainless steel nut	10508SS	2	2	2	2	2	2	2	2
34	aluminum box-3 socket	10525AL	1	1	1	1	1	1	1	1
35	aluminum faceplate-3 socket	10526AL	1	1	1	1	1	1	1	1
36	cork gasket-lid	10527CK	1	1	1	1	1	1	1	1
37	acetal spacer	10529AC	1	1	1	1	1	1	1	1
38	stainless steel carriage bolt	10530SS	2	2	2	2	2	2	2	2
39A	aluminum name plate-optic (blue)	10558AL	---	1	1	1	1	1	1	1
39B	aluminum name plate-float (red)	10531AL	1	---	---	---	---	---	---	---
40	aluminum label-ground bolt	10621AL	---	---	1	1	---	---	1	1
41	plastic black button insert	BLACK BUTTON INSERT	6	6	6	6	6	6	6	6

Repair Kits

Part #	Description	Includes Item #
FT320	blue (optic) vinyl cap assembly	2, 3, 5, 6, 9
FT321	green (thermistor) vinyl cap assembly	2, 3, 5, 6, 10
FT9051	contact block assembly for FT390/FT393 optic 5 pin	1, 8, 21, 24, 25
FT9052	contact block assembly for FT390/FT393 thermistor 10 pin	1, 8, 21, 24, 25
FT9062	nose ring,contact assembly, thermistor 4 J-slot, 10 pin	1, 8, 21, 22, 24, 25
FT9063	nose ring,contact assembly, optic 3 J-slot, 6 pin	1, 8, 21, 22, 24, 25
FT9068	contact block attachment screws and washers (4 each)	29, 30

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FT450 Ground Bolt
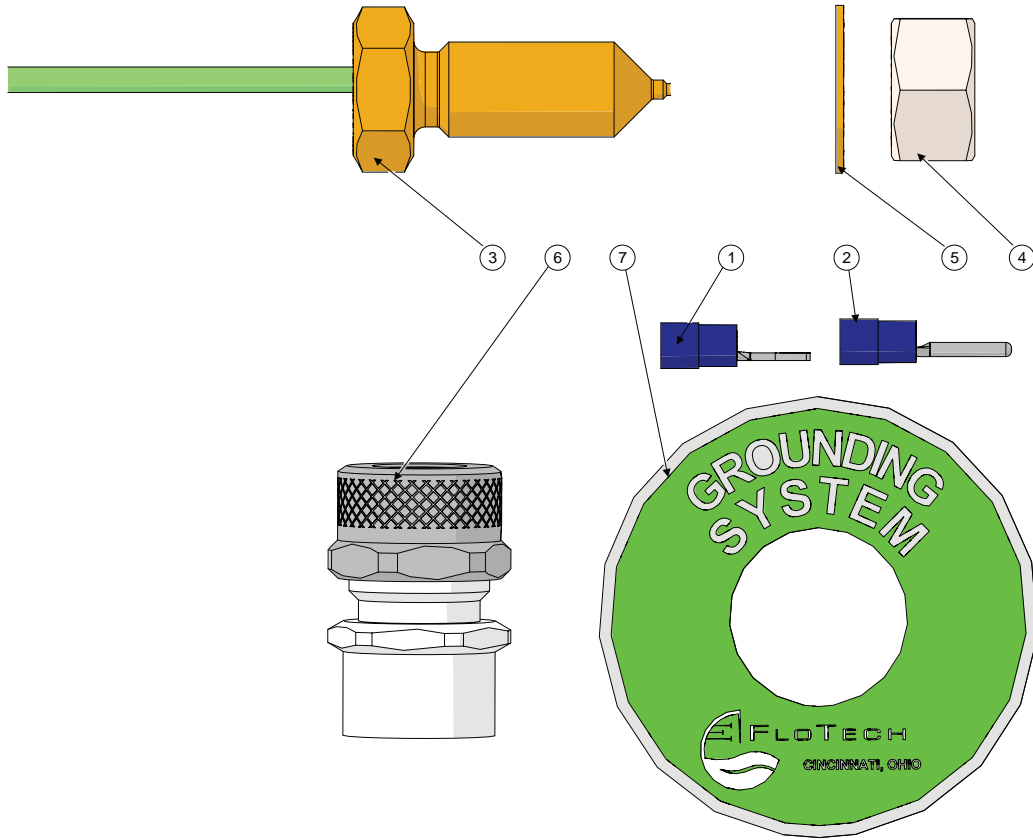
Bill of Materials

Item #	Description	Part #	Qty
1	locking spade	10102	1
2	terminal pin	10123	1
3	stainless steel ground bolt	10223	1
4	stainless steel nut-ground bolt 1/2"-13	10224	1
5	stainless steel lock washer internal tooth	10225	1
6	strain relief 1/2" NPT	10229	1
7	aluminum label-ground bolt	10562	1

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Rack Cords - FT620P
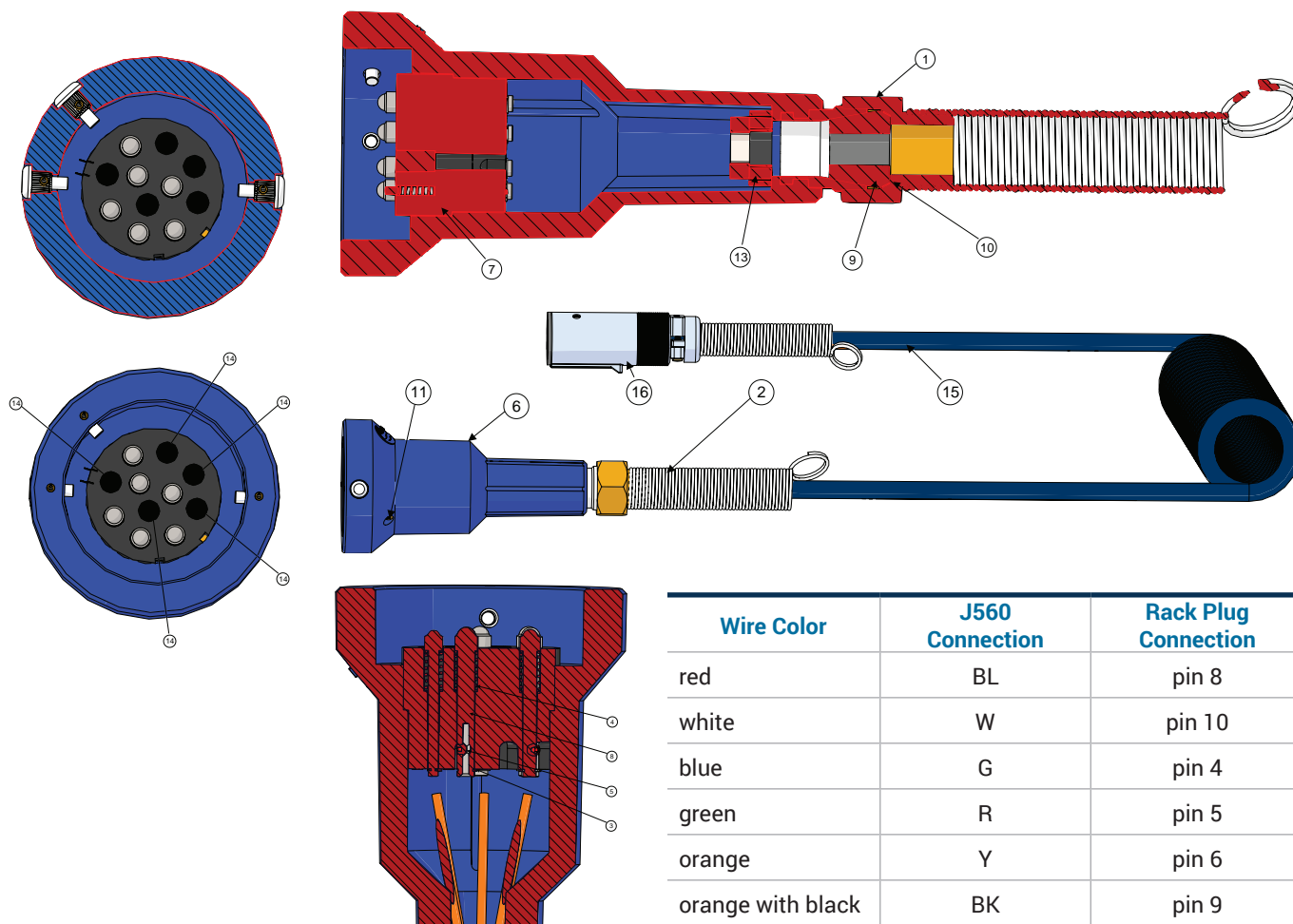
Wire Color	J560 Connection	Rack Plug Connection
red	BL	pin 8
white	W	pin 10
blue	G	pin 4
green	R	pin 5
orange	Y	pin 6
orange with black	BK	pin 9

Bill of Materials

Item #	Description	Part #	Qty	Material
1	strain relief nut	10249	1	aluminum
2	spring	10250	1	stainless steel
3	retaining ring	10252	6	steel
4	spring	10253	6	stainless steel
5	set screw	10260	6	stainless steel
6	body	10523NY-003	1	nylon
7	contact block-long	10524PL-001	1	plastic
8	plug pin	10550SS	6	stainless steel
9	cord grip bushing	10715NP	1	neoprene
10	cord grip washer	10716ST	1	plated steel
11	screw	10717SS	1	stainless steel
13	pinch-on double ear clamp	1518R	1	stainless steel
14	black button insert	BLACK BUTTON INSERT	5	plastic
15	assembly 30' coil	10290-002	1	316 stainless steel
16	J560 plug	10285-003	1	reinforced nylon

Product instruction sheets and technical data can be viewed on our website at dixonvalve.com

Rack Cords
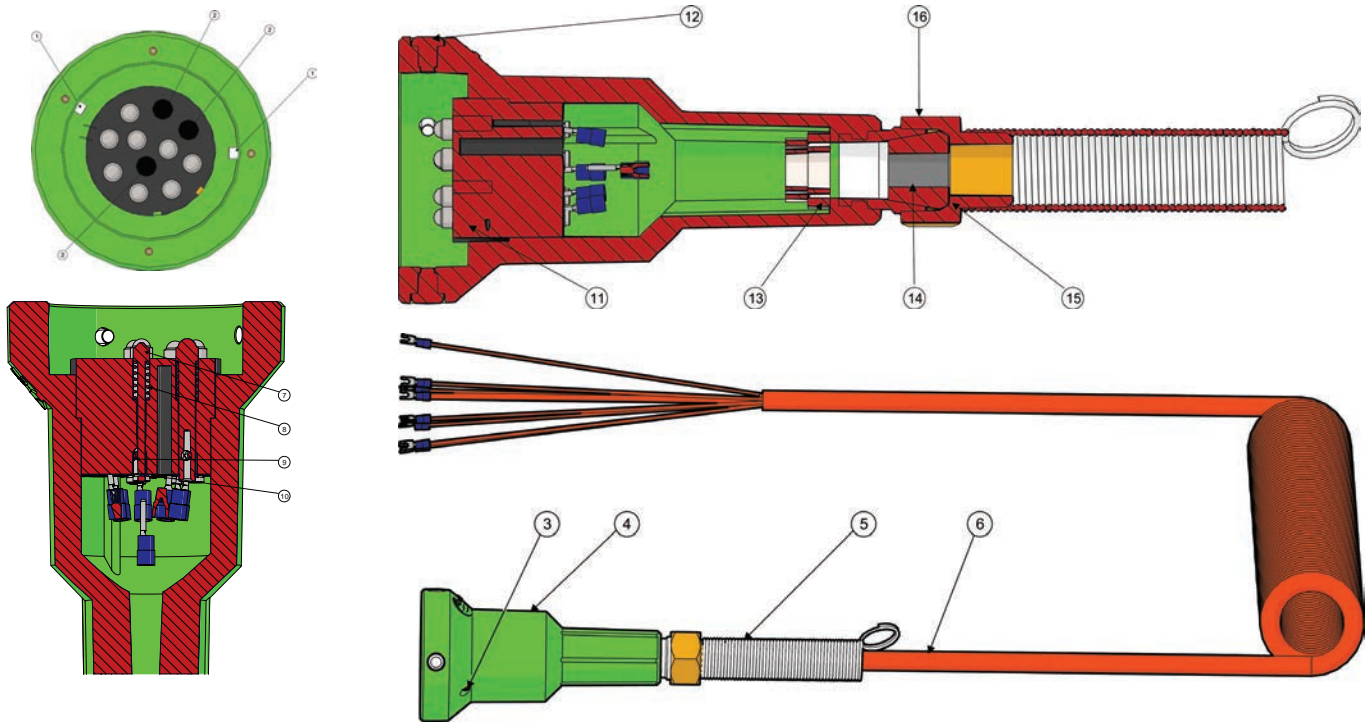
Bill of Materials

Item #	Description	Part #	FT600	FT600C	FT600S	FT600SC	FT620	FT620S
1	bayonet stud	10718SS	2	4	2	4	3	3
2	plastic black pin insert	BLACK BUTTON INSERT	3	1	3	1	5	5
3	stainless screw	10717SS	1	1	1	1	5	1
4A	green thermistor glass reinforced nylon plug body	10523NY-004	1	1	1	1	---	---
4B	blue optic glass reinforced nylon plug body	10523NY-003	---	---	---	---	1	1
5	stainless, cable bend restrictor spring	10250	1	1	1	1	1	1
6A	thermistor cable assembly 30' coiled (US)	10259	1	---	---	---	---	---
6B	thermistor cable assembly 30' coiled (Canada)	10259-C	---	1	---	---	---	---
6C	thermistor cable assembly 20' straight (US)	10259-S	---	---	1	---	---	---
6D	thermistor cable assembly 20' straight (Canada)	10259-CS	---	---	---	1	---	---
6E	optic cable assembly 30' coiled (US)	10290	---	---	---	---	1	---
6F	optic cable assembly 30' straight (US)	10290-S	---	---	---	---	---	1
7	plug pin	10550SS	8	10	8	10	6	6
8	stainless plug spring	10253	8	10	8	10	6	6
9	set screw	10260	8	10	8	10	6	6
10	retaining ring	10252	8	10	8	10	6	6
11	long plastic contact block	10524PL-001	1	1	1	1	1	1
12	aluminum bayonet pin plug	10718PLUG	2	4	2	4	---	---
13	stainless double ear pinch on clamp	SINGLE1518R	1	1	1	1	1	1
14	cord grip bushing	10715NP	1	1	1	1	1	1
15	cord grip washer	10716ST	1	1	1	1	1	1
16	aluminum strain relief nut	10249	1	1	1	1	1	1

Repair Kits

Part #	Description	Includes Item #
FT601	thermistor plug assembly, 8 pin 4 J-slot (US)	1-4A, 5, 7-11, 14-16
FT601-10	thermistor plug assembly, 10 pin 4 J-slot (Canada)	1-4A, 5, 7-11, 14-16
FT602	30' orange coiled cord, thermistor 10 conductor	6B, 13
FT604	20' orange straight cord, thermistor 10 conductor	6D, 13
FT621	optic plug assembly, 6 pin 3 J-slot (US)	1-4B, 5, 7-11, 14-16
FT622	30' orange coiled cord, optic 6 conductor	6E, 13
FT624	20' orange straight cord, optic 6 conductor	6F, 13

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