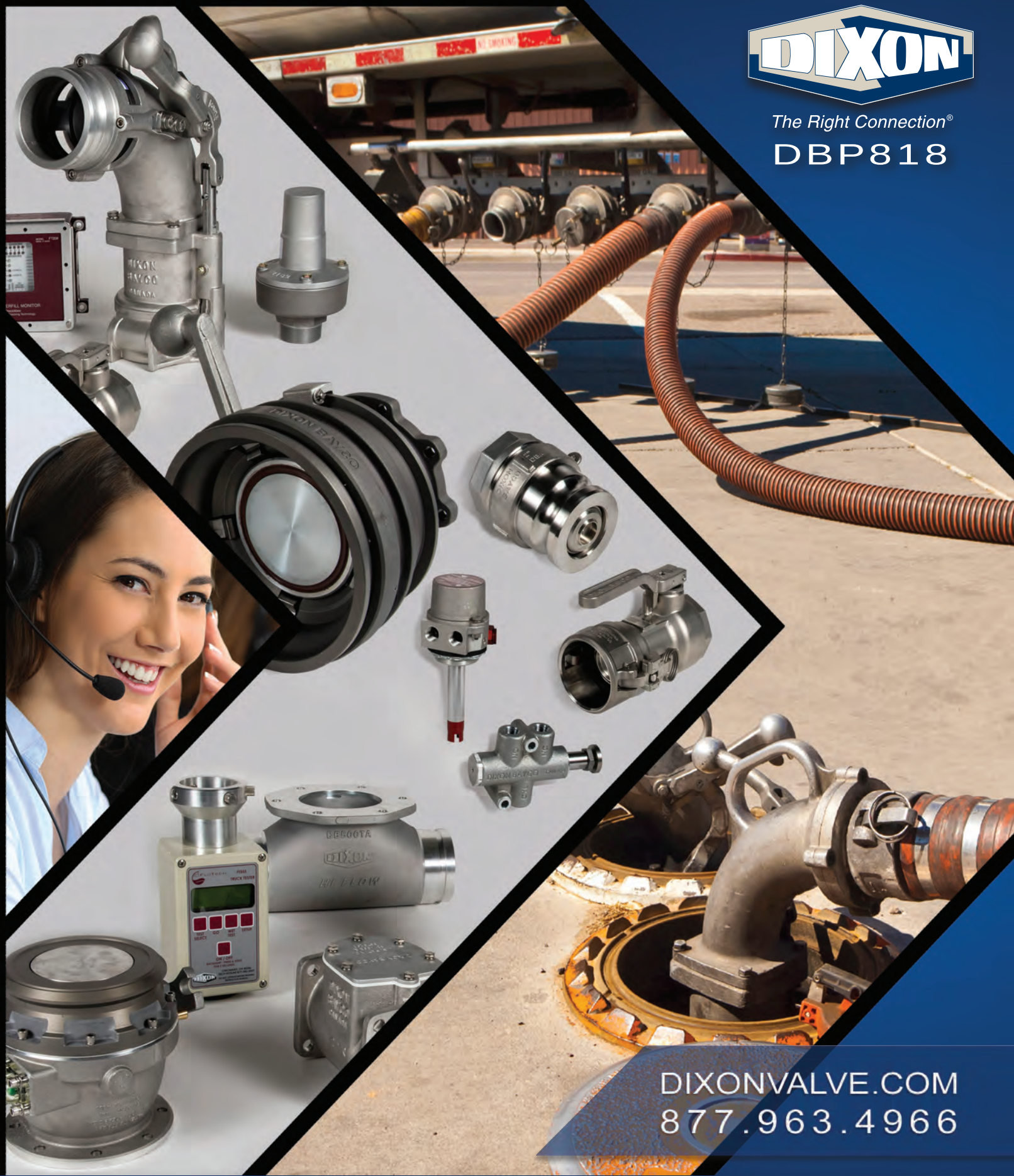
DIXON BAYCO PETROLEUM & OVERFILL

DBP818



DIXON

The Right Connection®

DBP818

DIXONVALVE.COM

877.963.4966

GOODYEAR RUBBER PRODUCTS, INC.

727-342-5088

You can also email us at GRP@goodyearrubberproducts.com

Table of Contents

Fuel Compatibility Chart 4

Loading, Gasket and Seal Recommendations for Alternative Fuels 5

API Valves 6-8
- Dust Caps 7
- Drop Adapters 7
  - Gravity Drop Adapters 8
    - Dust Caps 8
- Dust Caps & Dust Plugs with Handle 7

Flanged Connections and Accessories 9-12
- TTMA Flanged Sight Flow Indicators 9-10
- Product Indicators 10
- Cam and Groove x TTMA Flanges 11
- TTMA Flange Reducer 12
- TTMA Butterfly Valve Spacer 12
- API & TTMA Flange Gaskets 12

Fuel Delivery Elbows 13-15
- 6200 Series- Fuel Delivery Elbows 13
- 6500 Series- Heavy Duty Fuel Delivery Elbows 13
- Straight Drop Fuel Delivery Connectors 14
- Fuel Delivery Elbow Inlets and Anti-Spill Tubes 14
- Side Seal Fuel Delivery Elbows 14
- Side Seal to Top Seal Adapter 15
- Elbow Height Extensions 15
- Tank Cabinet "Dummy" Weld-On-Adapters 15

Coaxial Single Point - Fuel Delivery/Vapor Recovery Elbows 15-16
- Replacement Fuel Inlets and Vapor Outlets 15
- Coaxial Elbows 16

Fuel Station 17
- Delivery In-Ground Adapters and Caps 17
- Vapor Recovery Adapters and Caps 17

Vapor Elbows 16, 18
- Single Point - Coaxial Elbows 16
- Dual Point - Vapor Recovery Elbows 18

Tank Vapor Equipment 17, 19-20
- Tank Vapor Return Valves 19
- Orange Vapor Caps 17, 19
- Vapor Hose Couplings 20
- Sequential Vapor Vents 20
- Outbreathing and Inbreathing Vents 20

Miscellaneous Tank Equipment 21-23

Miscellaneous Tank Equipment (con't) 21-23
- Static Grounding Balls 22
  - Tanker Pipe Caps 22
  - Ball Valves 23
    - One Way, Full Flow 23
    - Two Way, 3 Port, Diverting 23

Dry Disconnects 24-29
- Cam & Groove Style Dry Disconnect Couplings 24
  - Female NPT Adapters 24
  - Jump Size Female NPT Adapters 25
  - Female NPS Vapor Adapter 25
  - 150# Flange Adapter 25
  - Female NPT Couplers 26
  - Greaseless Female NPT Couplers 26
  - Female NPT Swivel Couplers 26
    - Valve Handle Locking Kits 27
- Cam and Groove Style Dry Disconnect D2C Couplings 27
- Bayonet Style Dry Disconnect Couplings 28-29
  - Female NPT Adapters 28
  - Female NPT Couplers 28
  - Caps and Plugs 29

API Couplers 30
- Bonded Nose Seal 30
- Replaceable Nose Seal 30

Groove Connections 31
- Aluminum Groove Clamps 31
- Groove x Groove Painted Iron Groove Clamps 31
- Replacement Clamp Gaskets 31

Fuel Nozzles & Accessories 32-37
- Automatic Shut Off 32-33
  - Farm and Consumer Nozzles 32
  - Big Mouth™ Diesel Nozzle 32
  - Fuel Master™ Diesel Nozzle 32
  - DEF Automatic Diesel Nozzle 32
  - Fueler 100™ Automatic Diesel Nozzle 33
- Manual Shut Off 33-36
  - Pressure Nozzles for Bulk Delivery 33
  - Replacement Spouts 33
  - Large Capacity Low Pressure Gravity Nozzle 33
  - Ball Nozzles for Bulk Delivery 34
  - Replacement Spouts and Quick Fill Swivel Nuts 34
  - Standard Low Pressure Gravity Utility Nozzle 35
  - Replacement Spouts 35
  - Aircraft Over Wing Nozzles 36
- Accessories 36-37
  - Male x Female NPT Nozzle Swivels 36
  - Male NPT x Hose Shank Swivels 36
  - Breakaways 37

Fuel Tank Accessories 38

Table of Contents

Fuel Tanker Overfill Detection.....39-73
Important Information about Dixon® FloTech™ Overfill Detection Products.....40
FloTech™ Checkmate Overfill/Retain Plug-n-Play System.....41-45
Monitors with Integrated Dual Sockets.....41-42
Stand Alone Monitors.....43
Socket Assemblies.....43
Overfill Sensors and Probes.....44
Retain Sensors.....44
Wiring Harnesses.....45
FloTech™ Checkmate Overfill Detection (Black & White 2 Wire) Systems.....46-47, 53, 59
Overfill Detection Systems.....46
Top Detection Only.....46
Top and Bottom.....46
Onboard Monitor.....47
Overfill Sensors.....47
Retain Sensors and Probes.....47
Replacement Parts.....47
Stainless Steel Probe and Sensor Housings.....53
System Sensor Dummy.....59
ROM Type Overfill/Retain Detection (Red and Black 2 Wire) Systems.....48-50, 53
Overfill Detection Systems.....48
Top Detection Only.....48
Top and Bottom.....48
Onboard Monitor.....49
Overfill Sensors and Probes.....49
Retain Sensors.....50
Stainless Steel Probe and Sensor Housings.....53
FloTech™ API Optic Overfill Detection (5 Wire) Systems.....51-53
Overfill Detection Systems (Top Detection Only).....51
Onboard Monitor.....52
Overfill Sensors and Probes.....52
Stainless Steel Probe and Sensor Housings.....53
Sockets.....54-58, 74-75
Single Sockets with Aluminum Hardcoat J-slot.....54
Single Sockets with GFL (Guaranteed for Life) Stainless Steel J-slot Wear Rings.....55
EZ-Cept Sockets.....56-57
Socket Profiles.....74-75
Grounding Ball and Bolt.....60
FloTech™ Trailer Identification Module.....61
Cables and Strain Reliefs.....61
Electronic Equipment.....61
Optic System Testers.....61
Trailer Identification Module Chip Readers.....61
FloTech™ Truck Testers.....62
FloTech™ FT590 Series Rack Monitor Testers and Mini Trailer Overfill System.....62
API Compatible Cord Assemblies.....63
API Compatible Loading Rack Cords.....63
API Optic Cord Assemblies.....63
API Thermistor Cord Assemblies.....63
FloTech™ Junction Boxes.....64
Junction Box Cord Assembly Accessories.....64
FloTech™ FT7000 Series Rack Control Monitor.....65
Rack Cord Assemblies & Parts.....66
Reelcraft® Static Discharge Reels.....67
FloTech™ Replacements Parts.....68-69
Competitor Cross Reference Chart.....70-73

Replacement Parts.....74-161
Fuel Tanker Loading/Unloading.....74-80
Fuel Delivery.....81-101
Vapor Recovery.....89-101
Fuel Tanker.....102-105
Dry Disconnects.....106-125
Fuel Nozzles.....126-135
Fuel Tanker Overfill Detection.....136-161

Index.....**162-182**

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.

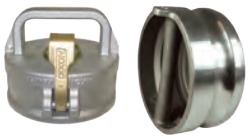
Safety Vapor Vents

Page 20

Tank Vapor Vents

Page 20

Dust Caps & Plugs with Handles for Hose Tubes



Page 7

Tube Doors

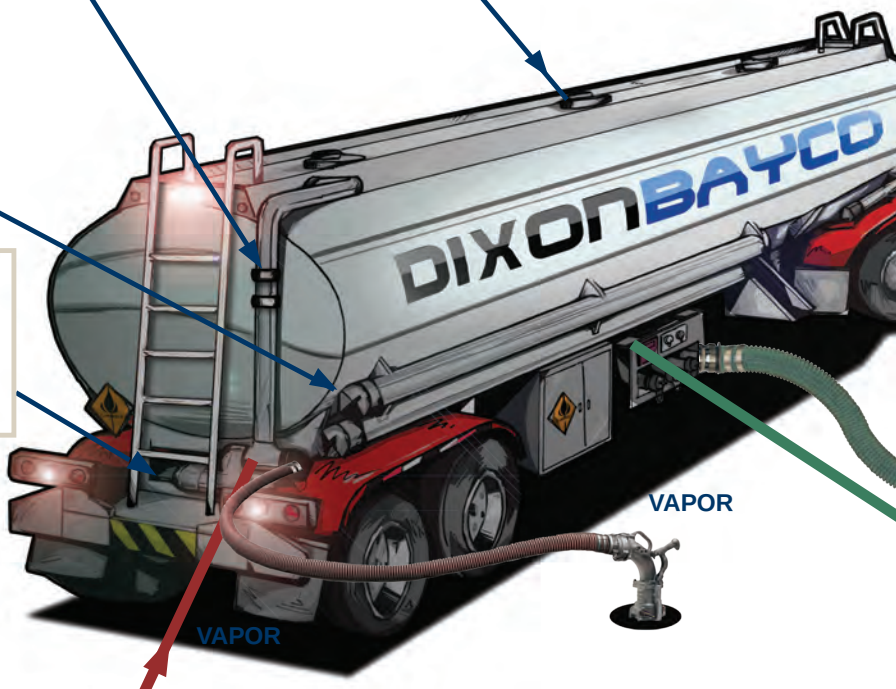
Page 22

Elbow Extension Kits

Pages 13-15

Grounding Studs

Page 22



Vapor Hose Couplers

Page 20

Vapor Valves

Page 19

Single Point Vapor Recovery/ Fuel Drop Co-Axial Elbow

(vapor outlet)

(fuel inlet)

Page 16

VAPOR FLOW

Vapor Elbows

Page 18

Vapor Adapter

Page 17

Vapor Caps

Page 19

VAPOR

From Underground Tank

Aluminum TTMA Flanges, Flange Gaskets, Flange Adapters

Pages 11-12

FloTech™ Overfill Detection

Sensors

Monitors

Ground Bolt

Sockets

Pages 39-73

Air Interlocks

Page 21

API Valve Caps

Page 7

Dust Caps

Page 7

Drop Hose Fittings

DPL418 Page 134

Sight Glass

Page 9

API Valves

Load Only

Load/Unload

Page 6

Drop Adapters

Page 7

FUEL FLOW

Drop Elbows

Page 13

Locking Fill Caps

Page 17

Top Seal Adapters

Page 17

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.

GOODYEAR RUBBER PRODUCTS, INC.

727-342-5088

You can also email us at GRP@goodyearrubberproducts.com

Dixon Bayco Fuel Compatibility Chart

Biofuel Compatible

Dixon Bayco Product	Page #	Description	Fuel Product [1]										
			Gasoline	Diesel	ULSD	Crude Oil	E10	E20	E85	E100	B2	B20	B100
4500 Series	7	two piece API drop adapter with sight glass, Baylast™ seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4500V Series	7	two piece API drop adapter with sight glass, fkm seals	✓	✓	✓	✓	NR	NR	NR	NR	✓	✓	✓
4530 & 4540	7	API drop adapter without sight glass, Baylast™ seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
4530V & 4540V	7	API drop adapter without sight glass, fkm seals	✓	✓	✓	✓	NR	NR	NR	NR	✓	✓	✓
4530SG & 4540SG	7	one piece API drop adapter with sight glass, Buna seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	NR
4530SGV & 4540SGV	7	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	6	API valve with sight glass, Baylast™ seals	✓	✓	✓	NR2	✓	✓	NR	NR	✓	✓	✓
5204C	6	API valve with sight glass & removable handle, Baylast™ seals	✓	✓	✓	NR2	✓	✓	NR	NR	✓	✓	✓
5204L	6	API load only valve with sight glass, Baylast™ seals	✓	✓	✓	NR2	✓	✓	NR	NR	✓	✓	✓
5204LNG	6	API load only valve without sight glass, Baylast™ seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5204NG	6	API valve without sight glass, Baylast™ seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5204NGC	6	API valve without sight glass, removable handle, Baylast™ seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5204NGV	6	API valve without sight glass, FKM seals	✓	✓	✓	NR2	NR	NR	NR	NR	✓	✓	✓
5204SFI	6	API valve with inline tube sight glass, Baylast™ seals	✓	✓	✓	NR2	✓	✓	✓	✓	✓	✓	✓
5204SNG	6	API valve without sight glass, Baylast™ seals, stainless spring	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5204TNG	6	API valve without sight glass, PTFE seals	NR1	NR1	NR1	NR1	NR1	NR1	NR1	NR1	NR1	NR1	✓
5300 & 5400	27	API rack coupling Buna seals	✓	✓	✓	NR	✓	✓	✓	✓	✓	✓	NR
5300B & 5400B	27	API rack coupling FKM-B seals	✓	✓	✓	NR	✓	✓	✓	✓	✓	✓	✓
5300G & 5400G	27	API rack coupling FKM gflt seals	✓	✓	✓	NR	✓	✓	✓	✓	✓	✓	✓
6000, 6200 & 6500 Series Drop Elbows	11,12	petroleum drop elbows & inlets, Buna seals	✓	✓	✓	NA	✓	✓	✓	✓	✓	✓	NR
Vapor or Product Hose Couplings	17	petroleum vapor hose couplings, Buna seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	NR
Vapor or Product Hose Couplings	17	petroleum vapor hose couplings, fkm seals	✓	✓	✓	✓	NR	NR	NR	NR	✓	✓	✓
VR4000 & VR4100 Series Vapor Valves	17	petroleum vapor valves	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
VR6100, VR6200 & VR6500 Vapor Elbows	16	petroleum vapor elbows & inlets	✓	✓	✓	NA	✓	✓	✓	NA	✓	✓	NA
VR6030SQ & VR6035SQ	18	sequential vapor vent valves, Baylast™ seals	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
300GTTFCB & 400GTTFCB	10	cork Buna TTMA gasket	✓	✓	✓	✓	✓	NR	NR	NR	✓	NR	NR
300GTTFBL & 400GTTFBL	10	TTMA Baylast™ gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
400GTTFK	10	Klinger® style TTMA gasket	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40321TF, 40322TF & 40323TF	10	PTFE soft core TTMA gaskets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
40364BL & 40323BL	10	Baylast™ sump gaskets	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FT151,FT202,FT101	44,46,49	FloTech™ sensors	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FT150S, FT100S	50	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®.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

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 Bio diesel, B100 Bio diesel, 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 temperature. 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.

Supertanker™ Program

Visit dixonvalve.com/supertanker for more information.

Fuel Tanker Loading and Unloading

Petroleum Products

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.
Standards:	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.
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.
Features & Benefits:	• 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% Bio Diesel). For detailed fuel compatibility, please refer to the chart shown on page 4. • Maximum working pressure **75 PSI**. • Units with sight glass max **140°F (60°C)**.

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

5204

5204SFI

Load/Unload Valves

Part #	Description	Overall Length	Fuel Compatibility
5204NG	fixed handle with Baylast™ seals (no sight glass)	7"	Gasoline and diesel, up to E100 and B100 biofuels
5204NGC	Canadian API with Baylast™ seals (no sight glass)	7"	
5204	fixed handle, Baylast™ seals and sight glass	7"	Gasoline and diesel, up to E20 and B100 biofuels
5204P	fixed handle, Baylast™ seals and sight glass, drilled / tapped boss	7"	
5204C	Canadian API with Baylast™ seals and sight glass	7"	
5204SNG	fixed handle, Baylast™ seals and stainless steel spring (no sight glass)	7"	Crude oil, gasoline and diesel, up to E20 and B100 biofuels
5204TNG	fixed handle with PTFE seals (no sight glass)	7"	B100 bio diesel
5204NGV	fixed handle with FKM seals (no sight glass)	7"	Gasoline and diesel, up to B100 bio diesel
5204SFI	fixed handle, Baylast™ seals and inline full body sight glass	8.81" [2]	Gasoline and diesel, up to E100 and B100 biofuels
5204SFI-P	fixed handle, Baylast™ seals and inline full body sight glass, drilled / tapped	8.81" [2]	

[2] Overall length of 5204SFI is the same as a 5204 API valve, gasket and 1¾" sight flow indicator combined

Load Only Valves

Part #	Description	Overall Length	Fuel Compatibility
5204LNG	Baylast™ seals (no sight glass)	7"	Gasoline and diesel, up to E100 and B100 biofuels
5204LSNG	Baylast™ seals (no sight glass) with stainless spring	7"	Crude oil, gasoline and diesel, up to E20 and B100 biofuels
5204L	Baylast™ seals and sight glass	7"	Gasoline and diesel, up to E20 and B100 biofuels

5204L

See page 12 for TTMA flange gaskets. See pages 79 and 80 for bill of materials and repair kits.

Fuel Tanker Loading and Unloading

API Dust Caps

5205

5000-24

5000-25

5000-24L

Part #	Description
5205	aluminum API cap with flat buna 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 buna seal, with plated steel padlock-able roller lever
5000-24L [1]	aluminum API cap with O-ring Baylast™ seal, with brass locking cam arms

[1] FKM seal available

See pages 81 and 82 for repair parts.

API Drop Adapters

- Maximum allowable operating pressure **75 PSI**.

4540

4540SG

4502

4540F

4504ASSM

Part #	Description	Fuel Compatibility
4530	API to 3" drop adapter, Baylast™ O-ring seal	Gasoline and diesel, up to E100 and B100 biofuels
4530SG	API to 3" drop adapter, Baylast™ flat gasket, in line sight glass	
4540	API to 4" drop adapter, Baylast™ O-ring seal	
4540V	API to 4" drop adapter, FKM O-ring seal	Gasoline and diesel, up to B100 bio diesel
4540SG	API to 4" drop adapter, Baylast™ flat gasket, one piece, inline sight glass	Gasoline and diesel, up to E100 and B100 biofuels
4502	API to 4" drop adapter, Buna-N 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 bio diesel
4540F	API to 4" drop coupler, Buna-N gasket	Gasoline and diesel, up to E100 and B100 biofuels
4502ASSM	API to 4" drop adapter, Baylast™ O-ring w/ sight glass, two piece design	
4504ASSM	API to 4" drop coupler, Buna-N gasket w/ sight glass, two piece design	

Visit dixonvalve.com for replaceable seal part number 2143SEALBU

Dust Caps and Dust Plugs with Handle

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

Fuel Tanker Loading and Unloading

Gravity Drop Adapters

31440-225AL

41440-225AL

40447ST

Part #	Description	Fuel Compatibility
31440-225AL	4" API to 3" drop adapter with Buna-N flat gasket	Gasoline and diesel, up to E100 and B100 biofuels
41440-225AL	4" API to 4" drop adapter with Buna-N flat gasket	
40447ST	17" heavy duty chain	

See page 85 for repair parts/kits.

NEW

Gravity Drop Adapter Dust Caps

4540DC

4540DC-1200

Part #	Description
4540DC	4" nylon light weight cap
4540DC-1200	4" nylon light weight cap with chain

Not intended to be pressurized.

Fuel Tanker Loading and Unloading

TTMA Flanged Sight Flow Indicators

Features & Benefits:	• 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 • 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 • Rated to **150 PSI**

5200-SFI shown mounted on petroleum tank

5200-SFI

5200-SPC

Part #	Description	Fuel Compatibility
5200-SFI-3	3" TTMA flange sight flow, 1¾" width, 3½" inside diameter	Gasoline and diesel, up to E100 and B100 biofuels
5200C-SFI-3[1]	3" TTMA flange sight flow, 1¾" width, 3½" inside diameter, stainless retain ring	Gasoline and diesel, up to E100 and B100 biofuels, crude oil
5200-SFI	4" TTMA flange sight flow, 1¾" width, 4⅜" inside diameter	Gasoline and diesel, up to E100 and B100 biofuels
5200-SFIV	4" TTMA flange sight flow, 1¾" width, 4⅜" inside diameter, FKM seals	
5200C-SFI[1]	4" TTMA flange sight flow, 1¾" width, 4⅜" inside diameter, 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) NEW	All fuels

[1] Compatible with crude oil

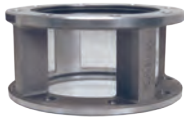
Note: Maximum flange bolt torque is 200 in-lb (inch pounds)

See page 87 for sight glass repair kits

Fuel Tanker

TTMA Flanged Sight Flow Indicators

Features & Benefits:	• 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). • Allows for visual identification of the fuel grade prior to opening the valve • Works with tank truck flanged butterfly valves found on gasoline trucks • Larger ID 4⅜" flow indicator allows tank truck flanged butterfly valves to connect to either end of the indicator • Maximum working pressure: **150 PSI,** TTMA flanges: **100 PSI**



5201-SFI

Part #	Description	Fuel Compatibility
5201-SFI	4" TTMA flange sight flow, 3¼" width, 4⅜" inside diameter	Gasoline and diesel, up to E100 and B100 biofuels
5201-SFI-3	3" TTMA flange sight flow, 3¼" width, 3½" inside diameter	

Note: Maximum flange bolt torque is 200 in-lb (inch pounds)

NEW

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	

See page 87 for sight glass repair kits.

Product Indicators

Features & Benefits:	• weight: 1½ lbs • dimensions: 8" x 3" x 2½" (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

NEW

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)
DBPI080L	petroleum product indicator, left handed, dual knob
40462VY	product indicator base label
DBPI080-MINI	mini petroleum product indicator, 4.5" x 2.125" x 2.25" , wt 10 oz .

Fuel Tanker

TTMA Flanges

TTF4AL-4MT

TTF4AL-4EMT

TTF4AL-4FT

TTF4AL

TTF400SP

Part #	Description	Fuel Compatibility
TTF3AL-3MT	3" TTMA flange x 3" male NPT, 2½" overall length	Gasoline and diesel, up to E100 and B100 biofuels
TTF4AL-3MT	4" TTMA flange x 3" male NPT, 2½" overall length	
TTF4ALHC-3MT	4" TTMA flange x 3" male NPT, 2½" overall length, hardcoated	
TTF4AL-3EMT	4" TTMA flange x 3" male NPT, 5½" overall length	
TTF4AL-3FT	4" TTMA flange x 3" female NPT, 2½" overall length	
TTF4AL-4MT	4" TTMA flange x 4" male NPT, 2½" overall length	
TTF4ALHC-4MT	4" TTMA flange x 4" male NPT, 2½" overall length, hardcoated	
TTF4AL-4EMT	4" TTMA flange x 4" male NPT, 5½" overall length	
TTF4AL-4FT	4" TTMA flange x 4" female NPT, 2½" 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 and Groove x TTMA Flanges

400-ALT-AL

4022ALTAL

400-DLT-AL

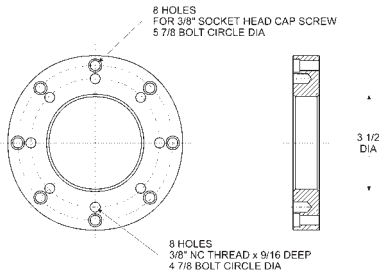
4022DLTAL

Part #	Description	Fuel Compatibility
300-ALT-AL	3" cam and groove adapter (straight) x 3" TTMA flange	Gasoline and diesel, up to E100 and B100 biofuels
3040ALTAL	3" cam and groove adapter (straight) x 4" TTMA flange	
400-ALT-AL	4" cam and groove adapter (straight) x 4" TTMA flange	
40022ALTAL	4" cam and groove adapter (22½°) x 4" TTMA flange	
600-ALT-AL	6" cam and groove adapter (straight) x 6" TTMA flange	
300-DLT-AL	3" cam and groove coupler (straight) x 3" TTMA flange	Gasoline and diesel, up to E85 and B20 biofuels
3040DLTAL	3" cam and groove coupler x 4" round tank truck flange	
400-DLT-AL	4" cam and groove coupler (straight) x 4" TTMA flange	
40022DLTAL	4" cam and groove coupler (22½°) x 4" TTMA flange	
600-DLT-AL	6" cam and groove coupler (straight) x 6" TTMA flange	

Fuel Tanker

TTMA Flange Reducer

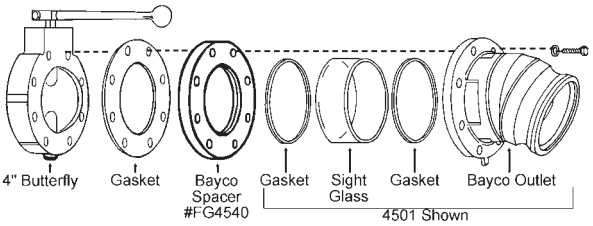
4443



Part #	Description	Fuel Compatibility
4443	4" TTMA x 3" TTMA reducer flange	Gasoline and diesel, up to E100 and B100 biofuels

TTMA Butterfly Valve Spacer

FG4540



Part #	Description	Fuel Compatibility
FG4540	4" TTMA flange spacer	Gasoline and diesel, up to E100 and B100 biofuels

API and TTMA Flange Gaskets

Part #	Size	Description	OD	ID	Thickness	Bolt Circle	Fuel Compatibility
300GTTFCB	3"	TTMA - Cork/Buna	5-5/8"	3½"	⅛"	4-7/8"	Gasoline and diesel, up to E10 and B2 biofuels
300GTTFBL	3"	TTMA - Baylast™	5-5/8"	3-5/8"	⅛"	4-7/8"	
300GTTFK	3"	TTMA Klinger nylon	5-5/8"	3½"	⅛"	4-7/8"	
40321TF	3"	TTMA - PTFE with soft fiber core	5-29/32"	3½"	3/32"	4-7/8"	Gasoline and diesel, up to E100 and B100 biofuels
40364TF	3"	API Sump - PTFE with soft fiber core	7¼"	5"	5/32"	6¼"	
40364BL	3"	API Sump - Baylast™	7¼"	5"	⅛"	6¼"	Gasoline and diesel, up to E10 and B2 biofuels
400GTTFCB	4"	TTMA - Cork/Buna	6-5/8"	4-9/16"	⅛"	5-7/8"	
400GTTFBL	4"	TTMA - Baylast™	6-5/8"	4-5/8"	⅛"	5-7/8"	
400GTTFK	4"	TTMA Klinger nylon	6-5/8"	4-9/16"	⅛"	5-7/8"	Gasoline and diesel, up to E100 and B100 biofuels
40322TF	4"	TTMA - PTFE with soft fiber core	6-7/8"	4-5/8"	3/32"	5-7/8"	
40323TF	4"	API Sump - PTFE with soft fiber core	8-3/8"	5-7/8"	5/32"	7¼"	
40323BL	4"	API Sump - Baylast™	8¼"	6⅛"	⅛"	7¼"	Gasoline and diesel, up to E10 and B2 biofuels

Fuel Delivery

6200 and 6500 Series- Fuel Delivery Elbows

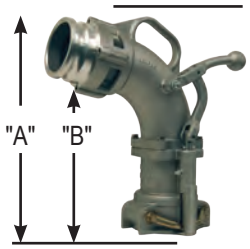
Features & Benefits:

6200 Series:

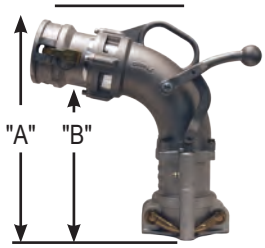
- Available in standard or tall heights to accommodate deep fill boxes
- Rugged modular cast aluminum construction
- Most parts are common throughout the Bayco elbow line, making any necessary maintenance a breeze.
- Grease nipple enables the greasing of the lever stem, and acetal bushings help keep 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% Bio Diesel). For detailed fuel compatibility, please refer to the chart shown on page 4.

6500 Series: Features all of the benefits of the 6200 series plus-

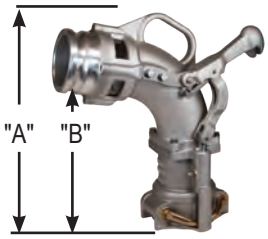
- Heavy duty bolt on arm attachment plate increases the strength of the lever pivot. There are no impact susceptible pivot bolts, or casting bosses to break.
- Arm hinge points use a double yoke design, which increases the arm strength.
- Built in heavy duty, locking mechanism prevents accidental elbow 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 gripping the handle and lifting. The locking mechanism has lots of free clearance so 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.



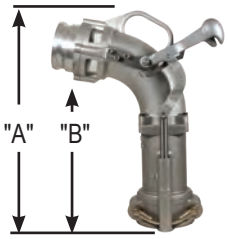
6200A



6200D



6500A



6500XA

Part #	Description	"A"	"B"	Fuel Compatibility
6200	standard height elbow only, without inlet connection	17¾"	10⅞"	Gasoline and diesel, up to E100 & B20 biofuels
6200C	standard height elbow with 3" adapter inlet	17¾"	10⅞"	
6200A	standard height elbow with 4" adapter inlet	17¾"	10⅞"	
6200B	standard height elbow with 3" coupler inlet	17¾"	10⅞"	
6200D	standard height elbow with 4" coupler inlet	17¾"	10⅞"	
6200T	elbow with anti-spill sleeve without inlet connection	17¾"	10⅞"	
6200AT	elbow with 4" adapter inlet and anti-spill sleeve	17¾"	10⅞"	
6200X	tall height elbow only, without inlet connection	21"	13¾"	
6200XC	tall height elbow with 3" adapter inlet	21"	13¾"	
6200XA	tall height elbow with 4" adapter inlet	21"	13¾"	
6200XB	tall height elbow with 3" coupler inlet	21"	13¾"	
6200XD	tall height elbow with 4" coupler inlet	21"	13¾"	
6200XT	tall elbow with anti-spill sleeve without inlet connection	21"	13¾"	
6200XAT	tall elbow with 4" adapter inlet and anti-spill sleeve	21"	13¾"	
6500	standard height full feature elbow only, without inlet connection	17¾"	10⅞"	
6500C	standard height full feature elbow with 3" adapter inlet	17¾"	10⅞"	
6500A	standard height full feature elbow with 4" adapter inlet	17¾"	10⅞"	
6500B	standard height full feature elbow with 3" coupler inlet	17¾"	10⅞"	
6500D	standard height full feature elbow with 4" coupler inlet	17¾"	10⅞"	
6500T	elbow with locking handle and anti-spill sleeve without inlet connection	17¾"	10⅞"	
6500AT	elbow with locking handle, 4" adapter inlet and anti-spill sleeve	17¾"	10⅞"	
6500X	tall height full feature elbow only, without inlet connection	21"	13¾"	
6500XC	tall height full feature elbow with 3" adapter inlet	21"	13¾"	
6500XA	tall height full feature elbow with 4" adapter inlet	21"	13¾"	
6500XB	tall height full feature elbow with 3" coupler inlet	21"	13¾"	
6500XD	tall height full feature elbow with 4" coupler inlet	21"	13¾"	
6500XT	tall height full feature elbow w/locking handle, no inlet, w/anti-spill sleeve	21"	13¾"	
6500XAT	tall elbow with locking handle, 4" adapter inlet and anti-spill sleeve	21"	13¾"	

See page 85 and 88 for repair kits and replacement parts

Fuel Delivery

Fuel Delivery Connectors

Straight Drop Fuel Delivery Connectors

6304NPT

Part #	Description	Overall Height	Fuel Compatibility
6303	4" top seal with 3" adapter inlet	17-5/8"	Gasoline and diesel, up to E100 and B20 biofuels
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"	

See page 88 for repair kits and replacement parts.

Fuel Delivery Elbow Inlets and Anti-Spill Tubes

6000-17

6000-14

6000-20

6200-17

Part #	Description	Fuel Compatibility
6000-16	3" adapter inlet	Gasoline and diesel, up to E100 and B20 biofuels
6000-17	4" adapter inlet	
6000-15	3" coupler inlet	
6000-14	4" coupler inlet	
6000-20	4" female NPT inlet	
6000F	inline screen for drop elbows	
6200-17	anti-spill tube for 6200 and 6500	
6200X-17	tall anti-spill tube for 6200 and 6500	

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 15.

Side Seal Fuel Delivery Elbows

6000ASC

Part #	Description	Fuel Compatibility
6000AS	side seal elbow without inlet connection	Gasoline and diesel, up to E100 & B20 biofuels
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.	

See page 88 for repair kits and replacement parts.

Fuel Delivery

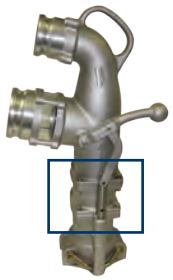
Side Seal to Top Seal Adapter

Part #	Description	Fuel Compatibility
6000-SSA	top seal to side 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	Fuel Compatibility
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.	Gasoline and diesel, up to E100 and B20 biofuels
6400EXT	3" height extension kit for 6400 co-axial 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

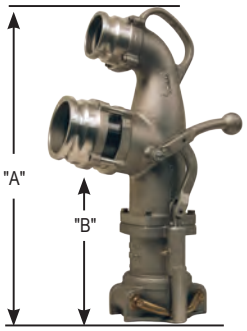
Part #	Description	Fuel Compatibility
6000-16C	3" adapter fuel inlet	Gasoline and diesel, up to E100 and B20 biofuels
6000-17C	4" adapter fuel inlet	
6000-15C	3" coupler fuel inlet	
6000-14C	4" coupler fuel inlet	
6400-4	3" adapter vapor outlet	
6000-26C	3" male NPT vapor outlet	

Fuel Delivery / Vapor Recovery

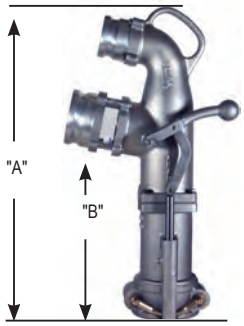
Single Point Coaxial - Delivery / Vapor Recovery Elbows

Features & Benefits:

- 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 (Note: Coaxial inlets are not interchangeable with other Bayco elbow 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% bio diesel). For detailed fuel compatibility, please refer to the chart shown on page 4.



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	23¾"	11¾"	Gasoline and diesel, up to E100 and B20 biofuels
6430F	standard height elbow with 3" coupler fuel inlet, 3" adapter vapor outlet	23¾"	11¾"	
6400	standard height elbow with 4" adapter fuel inlet, 3" adapter vapor outlet	23¾"	11¾"	
6400F	standard height elbow with 4" coupler fuel inlet, 3" adapter vapor outlet	23¾"	11¾"	
6400FNPT	standard height elbow with 4" coupler fuel inlet, 3" male npt vapor outlet	23¾"	11¾"	
6430X	tall height elbow with 3" adapter fuel inlet, 3" adapter vapor outlet	26¾"	14¾"	
6430XF	tall height elbow with 3" coupler fuel inlet, 3" adapter vapor outlet	26¾"	14¾"	
6400X	tall height elbow with 4" adapter fuel inlet, 3" adapter vapor outlet	26¾"	14¾"	
6400XF	tall height elbow with 4" coupler fuel inlet, 3" adapter vapor outlet	26¾"	14¾"	
6400XFNPT	tall height elbow with 4" coupler fuel inlet, 3" male npt vapor outlet	26¾"	14¾"	

Elbow options are shown on page 15. See page 89 for repair kits and replacement parts.

Fuel Delivery / Vapor Recovery

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.
Standards:	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.
Materials:	Adapters are either produced from bronze [1] or Bayloy™ [1]. Caps are produced in aluminum [1], bronze [1] or nylon [1], Buna seals
Features & Benefits:	**Delivery Adapters (top seal):** • Available with 4" NPS or 4" NPT threads, with 3½" or 2-⅜" 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 • Pad lockable **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 light weight construction aluminum or nylon bodies, with push-pull T handle • Protect the vapor adapter, and prevent fuel contamination and tampering. • Pad lockable Biofuel compatible, up to E100 (100% Ethanol) and B20 (20% Bio Diesel). For detailed fuel compatibility, please refer to the chart shown on page 4.

[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, 3½" height, top seal
BY4051	Bayloy™ fuel delivery tank adapter, 4" female NPT, 3½" height, top seal
BZ4051S	bronze fuel delivery tank adapter, 4" female NPS, 2⅜" height, top seal
SA4050AL	aluminum fuel delivery adapter cap, bronze push-pull T handle, Buna gasket
SA4050BZ	bronze fuel delivery adapter cap, bronze push-pull T handle, Buna 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, 3⅝" height, with vapor poppet
VR4086-BY	Bayloy™ vapor recovery tank adapter, 4" FNPT, 3⅝" height, with vapor poppet
VR4050AL	aluminum vapor recovery cap, colored vapor orange, push-pull T handle, buna gasket
VR4050PL	nylon vapor recovery cap, colored vapor orange, push-pull T handle, Buna gasket
VR4050ALC	aluminum vapor recovery cap, colored vapor orange, push-pull T handle, Buna gasket, with chain
VR4050PL-1200	nylon vapor recovery cap, colored vapor orange, push-pull T handle, Buna gasket, with chain

See page 95 for repair kits and replacement parts.

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

Fuel Delivery / Vapor Recovery

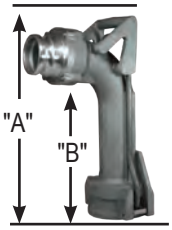
Petroleum Products

Dual Point - Vapor Recovery Elbows

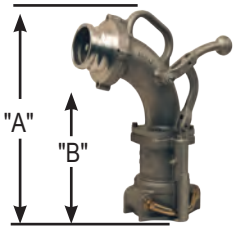
Application:	In many areas fuel stations are equipped with dual point tank connections, one connection is for the fuel delivery, and the other connection is for the vapor recovery connection. The vapor elbow bottom connection is connected to the fuel station on a ground tank vapor adapter and the top connection to the vapor hose, which returns the fuel vapors back to the tanker.
Standards:	Manufactured to connect to in ground fuel station vapor adapters and cam and groove vapor hose connections.
Materials:	Aluminum body and handle, bronze locking arms [1], stainless steel hardware, Baylast™ and Buna seals, and acetal bushings.
Features & Benefits:	• 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% bio diesel). For detailed fuel compatibility, please refer to the chart shown on page 4.

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

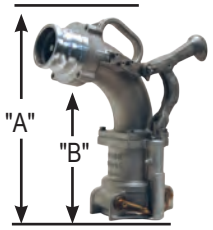
VR6000NP



VR6100NP



VR6200



VR6500

Part #	Description	Outlet Poppet Valve	"A" Overall Height	"B" Ground Clearance	Vapor Compatibility
VR6000NP	D-handle, 3" adapter outlet	No	17¼"	10¾"	Gasoline and diesel, up to E85 & B20 biofuels
VR6100NP	push-on style, 3" adapter outlet	No	18¾"	12½"	
VR6200NPBU	ball lever handle, without adapter outlet	No	17¼"	10¾"	
VR6200	ball lever handle, 3" adapter outlet	Yes	17¼"	10¾"	
VR6200NP	ball lever handle, 3" adapter outlet	No	17¼"	10¾"	
VR6200PNP	ball lever handle, 3" adapter outlet with height extension, see page 13 for more info.	No	20¼"	13¾"	
VR6200ANP	ball lever handle, 4" adapter outlet	No	17¼"	10¾"	
VR6200NPB	ball lever handle, 3" coupler outlet	No	17¼"	10¾"	
VR6200NPBP	ball lever handle, 3" coupler outlet with height extension, see page 13 for more info	No	20¼"	13¾"	
VR6200NPDP	ball lever handle, 4" coupler outlet with height extension, see page 13 for more info	No	20¼"	13¾"	
VR6500	heavy duty ball lever handle, 3" adapter outlet	Yes	17¼"	11¼"	
VR6500NP	heavy duty ball lever handle, 3" adapter outlet	No	17¼"	11¼"	
VR6500LPNP	heavy duty ball lever locking handle, 3" adapter outlet	No	20¼"	13¾"	
VR6000-6	replacement 3" adapter outlet, for elbows with or without poppets	-	-	-	Gasoline and diesel, up to E100 & 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.	-	-	-	

See page 93 through 96 for repair kits and replacement parts

Fuel Vapor Recovery

Vapor Return Valves

Standards:	Manufactured to connect to vapor hose couplings
Materials:	Aluminum body and buna seals, nylon [1] or acrylic [1] sight glass if equipped
Features & Benefits:	• 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% bio diesel). For detailed fuel compatibility, please refer to the chart shown on page 4.

[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 & B20 biofuels Gasoline and diesel, up to E100 & B20 biofuels
VR3100NP	4"	3" female NPT	No	No		
VR4100	4"	4" female NPT	Yes	No		
VR4100NP	4"	4" female NPT	No	No		
VR4100S	4"	4" female NPS	Yes	No		
VR4100NPS	4"	4" female NPS	No	No		
VR4100F	4"	4" TTMA flange	Yes	Yes		
VR4100FNG	4"	4" TTMA flange	Yes	No		
VR4100F-SFI	4"	4" TTMA flange	Yes	Yes		
VR4100F-NGNP	4"	4" TTMA flange	No	No		
VR4000	4"	4" TTMA flange	Yes	Yes	Bulb design for maximum flow (if required use 5000AIV interlock valve)	

See page 98 and 99 for repair kits and replacement parts.

Orange Vapor Caps

VR4050PL

VR4050PLC

VR4050AL

Part #	Description	Vapor Compatibility
VR4050ALT	aluminum vapor recovery adapter cap, color orange, push-pull T handle, Buna gasket	Gasoline and diesel, up to E100 & B20 biofuels
VR4050PL	nylon vapor recovery adapter cap, color orange, push-pull T handle, Buna gasket	
VR4050ALC	aluminum vapor recovery adapter cap, color orange, push-pull T handle, Buna gasket, with chain	
VR4050PLC	nylon vapor recovery adapter cap, color orange, push-pull T handle, Buna gasket, with chain	

Fuel Vapor Recovery

Vapor Hose Couplings

VR4030CS-AL

VR4040CS-AL

VR4040CS-AL

Part #	Coupler Size	Connection Type & Size	Poppet Valve	Probe	Vapor Compatibility
VRC3000AL	3"	3" hose	No	Yes	Gasoline and diesel, up to E100 and B20 biofuels
VR4030CS-AL [1]	4"	3" hose	Yes	Yes	
NEW ***VR4040CS-AL***	4"	4" hose	Yes	Yes	
NEW ***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	
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	---	---	

[1] VR4030CS-AL will not work with Civacon 633LVH vapor valve and requires poppet style vapor valve on tank truck to open.

See page 98 thru 100 for repair kits and replacement parts.

Sequential Vapor Vents

VR6030SQ

VR6035SQ

40193AL

Features & Benefits:	• 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 ¼" male NPT plug) • Flange adapter available to adapt 3" TTMA (VR6035SQ) version to a Parker style vent • Rugged cast aluminum construction • Any necessary maintenance is easy to perform • temperature range: **-40°F to 160°F (-40°C to 71°C)**

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	Gasoline and diesel, up to E100 and B100 biofuels

See page 103 and 104 for repair kits and replacement parts.

Outbreathing and Inbreathing Vents

VRP3500
VRP3600

Part #	Description	Vapor Compatibility
VRP3500	outbreathing, opens at no greater than 1 PSI (MC306)	Gasoline and diesel, up to E100 and vB100 biofuels
VRP3600	outbreathing, opens at no less than 0 PSI (DOT406)	
VRV3501	inbreathing, opens at 1.5" Hg (vacuum)	

Fuel Vapor Recovery

Air Interlock Valves

Feature & Benefit:	• temperature range: **-40°F to 158°F (-40°C to 70°C)** • maximum working pressure: **150 PSI**

See page 106 - 108 for repair kits and replacement parts.

Standard Air Interlock Valves

5000AI

5000AIR

5000AIHD

5000AIV

5000AIRHD

5000AIVHD

Part #	Description
5000AI	1" button plunger pneumatic interlock, Baylast™ seals
5000AIST	1½" 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

Heavy Duty 6-Port Air Interlock Valves

Feature & Benefit:	• 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 w/limit
5000AISHD	air interlock limit switch heavy duty
5000AISTHD	heavy duty air interlock w/1.5"
40048WI	cable, air interlock switch

NEW

Fuel Tanker

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.
Standards:	Manufactured to weld to 6", 7" or 8" hose tubes
Materials:	Aluminum body, Buna seals, stainless steel door closure spring and hardware, nylon bushings
Features & Benefits:	• Pad-lockable • 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

TDF6

TDF7

TDF8

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

See page 104 for repair kits and replacement parts.

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.
Standards:	Manufactured with ⅜" -16UN-3A thread
Materials:	Brass or stainless steel
Features & Benefits:	• Helps eliminate static electricity sparking

GS1

GS1-2

GS2

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

Tanker Pipe Caps

PC30

Features & Benefits:	• 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

Fuel Tanker

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.
Standards:	Manufactured with 2", 3" or 4" female NPT, socket weld to Schedule 40 or grooved ends
Materials:	Aluminum body, aluminum and stainless steel wetted parts, FPM (FKM and PTFE seals)
Features & Benefits:	• High flow with low pressure drop • Working pressure of **150 PSI** at **70°F (21°C)** • Valve spindle can be disassembled with valve installed.

Part #	Size	Description
1WAYBV200	2"	female NPT
1WAYBV300	3"	female NPT
1WAYBV400	4"	female NPT
1WAYBV200SW	2"	schedule 40 socket weld
1WAYBV300SW	3"	schedule 40 socket weld
1WAYBV200VIC	2"	grooved connections
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.
Standards:	Manufactured with 2", 3" or 4" female NPT, socket weld to Schedule 40 or grooved ends.
Materials:	Aluminum body, aluminum and stainless steel wetted parts, FPM (FKM and PTFE seals)
Features & Benefits:	• 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.

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

2WAYBV300

2WAYBV300SW

2WAYBV300VIC3

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

Dry Disconnects

Cam and 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.
Standards:	Manufactured to interchange with other cam and groove type dry disconnect couplings. Canadian registration number CRN #OH14044 all provinces, 3" size rated to 80 PSI for CRN required applications.
Materials:	Zinc, aluminum or stainless steel bodies with buna [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. 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. Stainless steel corrosion resistance is equivalent to 304 stainless steel
Features & Benefits:	• Helps eliminate the possibility of costly spills • Compatible with most other brands of cam and 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 36 and 37. • Use standard cam and 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 1½" 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).

[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 #
1½"	2"	Buna	210	---	***DBA11-150***	1611AN-AL15	***DBA71-150***	1671AN-SS15
2"	2½"	Buna	150	***DBA61-200***	***DBA11-200***	1611AN-AL20	***DBA71-200***	1671AN-SS20
3"	4"	Buna	120	---	***DBA11-300***	1611AN-AL30	***DBA71-300***	1671AN-SS30
1½"	2"	FKM	210	---	***DBA12-150***	1612AN-AL15	***DBA72-150***	1672AN-SS15
2"	2½"	FKM	150	***DBA62-200***	***DBA12-200***	1612AN-AL20	***DBA72-200***	1672AN-SS20
3"	4"	FKM	120	---	***DBA12-300***	1612AN-AL30	***DBA72-300***	1672AN-SS30
1½"	2"	PTFE encapsulated silicone	210	***DBA63-150***	---	1613AN-AL15	***DBA73-150***	1673AN-SS15
2"	2½"	PTFE encapsulated silicone	150	***DBA63-200***	---	1613AN-AL20	***DBA73-200***	1673AN-SS20
3"	4"	PTFE encapsulated silicone	120	***DBA63-300***	---	1613AN-AL30	***DBA73-300***	1673AN-SS30
1½"	2"	EPDM	210	***DBA64-150***	---	1614AN-AL15	***DBA74-150***	1674AN-SS15
2"	2½"	EPDM	150	***DBA64-200***	---	1614AN-AL20	***DBA74-200***	1674AN-SS20
3"	4"	EPDM	120	***DBA64-300***	---	1614AN-AL30	***DBA74-300***	1674AN-SS30
1½"	2"	FFKM	210	***DBA66-150***	---	1616AN-AL15	***DBA76-150***	1676AN-SS15
2"	2½"	FFKM	150	***DBA66-200***	---	1616AN-AL20	***DBA76-200***	1676AN-SS20
3"	4"	FFKM	120	***DBA66-300***	---	1616AN-AL30	***DBA76-300***	1676AN-SS30
1½"	2"	PTFE encapsulated FKM	210	***DBA67-150***	---	1617AN-AL15	***DBA77-150***	1677AN-SS15
2"	2½"	PTFE encapsulated FKM	150	***DBA67-200***	---	1617AN-AL20	***DBA77-200***	1677AN-SS20
3"	4"	PTFE encapsulated FKM	120	***DBA67-300***	---	1617AN-AL30	***DBA77-300***	1677AN-SS30
2"	2½"	FKM-GFLT	150	---	---	---	***DBA78-200***	---
3"	4"	FKM-B	120	***DBA69-300***	---	1619AN-AL30	***DBA79-300***	1679AN-SS30

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

Dry Disconnects

Jump Size Female NPT Adapters

Female NPT Size	Adapter Size	Dry Disconnect Body Size	Seal Material	Max PSI @ 70°F (21°C)	Zinc/Aluminum Part #	Competitor Part #
2"	2"	1½"	Buna	150	***DBA11-1520***	-
2"	2"	1½"	FKM	150	***DBA12-1520***	-

See pages 108 for replacement parts.

DBA12-1520

Female NPS Vapor Adapter

Female NPSM Size	Adapter Size	Dry Disconnect Body Size	Seal Material	Max PSI @ 70°F (21°C)	Stainless Steel Part #	Competitor Part #
3"	2½"	2"	PTFE	150	***DBAV73-2030***	2173AVN

See page 110 for replacement parts.

DBAV73-2030

150# Flange Adapters

Flange Size	Adapter Size	Dry Disconnect Body Size	Seal Material	Max PSI @ 70°F (21°C)	Stainless Steel Part #	Competitor Part #
2"	2"	1½"	Buna	150	***DBAF71-1520***	1671ANF-SS15
2"	2½"	2"	Buna	150	***DBAF71-200***	1671ANF-SS20
3"	4"	3"	Buna	120	***DBAF71-300***	1671ANF-SS30
2"	2"	1½"	FKM	150	***DBAF72-1520***	1672ANF-SS15
2"	2½"	2"	FKM	150	***DBAF72-200***	1672ANF-SS20
3"	4"	3"	FKM	120	***DBAF72-300***	1672ANF-SS30
2"	2"	1½"	PTFE encapsulated silicone	150	***DBAF73-1520***	1673ANF-SS15
2"	2½"	2"	PTFE encapsulated silicone	150	***DBAF73-200***	1673ANF-SS20
3"	4"	3"	PTFE encapsulated silicone	120	***DBAF73-300***	1673ANF-SS30
2"	2"	1½"	EPDM	150	***DBAF74-1520***	1674ANF-SS15
2"	2½"	2"	EPDM	150	***DBAF74-200***	1674ANF-SS20
3"	4"	3"	EPDM	120	***DBAF74-300***	1674ANF-SS30
2"	2"	1½"	FFKM	150	***DBAF76-1520***	1676ANF-SS15
2"	2½"	2"	FFKM	150	***DBAF76-200***	1676ANF-SS20
3"	4"	3"	FFKM	120	***DBAF76-300***	1676ANF-SS30
2"	2½"	2"	FKM-GFLT	150	***DBAF78-200***	---

Note: Stainless steel corrosion resistance is comparable to 304 stainless steel.

See page 109 for replacement parts.

DBAF72-200

Dry Disconnects

Cam and Groove Style Dry Disconnect Couplings

DBC61-150

DBC61-300

Female NPT Couplers

Female NPT Size	Coupler Size	Seal Material	Max PSI @ 70°F (21°C)	Aluminum Part #	Competitor part # (New & Old)	Stainless Steel Part #	Competitor Part # (New & Old)
1½"	2"	Buna	210	***DBC61-150***	1711DL-AL15 / 1761D-AL15	***DBC71-150***	1771DL-SS15 / 1771D-SS15
2"	2½"	Buna	150	***DBC61-200***	1711DL-AL20 / 1761D-AL20	***DBC71-200***	1771DL-SS20 / 1771D-SS20
3"	4"	Buna	120	***DBC61-300***	1711DL-AL30 / 1761D-AL30	***DBC71-300***	1771DL-SS30 / 1771D-SS30
1½"	2"	FKM	210	***DBC62-150***	1712DL-AL15 / 1762D-AL15	***DBC72-150***	1772DL-SS15 / 1772D-SS15
2"	2½"	FKM	150	***DBC62-200***	1712DL-AL20 / 1762D-AL20	***DBC72-200***	1772DL-SS20 / 1772D-SS20
3"	4"	FKM	120	***DBC62-300***	1712DL-AL30 / 1762D-AL30	***DBC72-300***	1772DL-SS30 / 1772D-SS30
1½"	2"	PTFE encapsulated silicone	210	***DBC63-150***	1713DL-AL15 / 1763D-AL15	***DBC73-150***	1773DL-SS15 / 1773D-SS15
2"	2½"	PTFE encapsulated silicone	150	***DBC63-200***	1713DL-AL20 / 1763D-AL20	***DBC73-200***	1773DL-SS20 / 1773D-SS20
3"	4"	PTFE encapsulated silicone	120	***DBC63-300***	1713DL-AL30 / 1763D-AL30	***DBC73-300***	1773DL-SS30 / 1773D-SS30
1½"	2"	(EPDM)	210	***DBC64-150***	1714DL-AL15 / 1764D-AL15	***DBC74-150***	1774DL-SS15 / 1774D-SS15
2"	2½"	(EPDM)	150	***DBC64-200***	1714DL-AL20 / 1764D-AL20	***DBC74-200***	1774DL-SS20 / 1774D-SS20
3"	4"	(EPDM)	120	***DBC64-300***	1714DL-AL30 / 1764D-AL30	***DBC74-300***	1774DL-SS30 / 1774D-SS30
1½"	2"	FFKM	210	***DBC66-150***	1716DL-AL15 / 1766D-AL15	***DBC76-150***	1776DL-SS15 / 1776D-SS15
2"	2½"	FFKM	150	***DBC66-200***	1716DL-AL20 / 1766D-AL20	***DBC76-200***	1776DL-SS20 / 1776D-SS20
3"	4"	FFKM	120	***DBC66-300***	1716DL-AL30 / 1766D-AL30	***DBC76-300***	1776DL-SS30 / 1776D-SS30
1½"	2"	PTFE encapsulated FKM	210	***DBC67-150***	1717DL-AL15 / 1767D-AL15	***DBC77-150***	1777DL-SS15 / 1777D-SS15
2"	2½"	PTFE encapsulated FKM	150	***DBC67-200***	1717DL-AL20 / 1767D-AL20	***DBC77-200***	1777DL-SS20 / 1777D-SS20
3"	4"	PTFE encapsulated FKM	120	***DBC67-300***	1717DL-AL30 / 1767D-AL30	***DBC77-300***	1777DL-SS30 / 1777D-SS30
2"	2½"	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 - Buna
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 - 1½"
200 - 2"
300 - 3"

Grease
Blank - Standard
L - Greaseless

Greaseless Female NPT Couplers

Female NPT Size	Coupler Size	Seal Material	Max PSI @ 70°F (21°C)	Stainless Steel Part #	Competitor Part # (New and Old)
1½"	2"	PTFE Encapsulated FKM	210	***DBC77-150-GL***	1777DL-SS15-GL / 177D-SS15-GL
2"	2½"	PTFE Encapsulated FKM	150	***DBC77-200-GL***	1777DL-SS20-GL / 177D-SS20-GL

Note: 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"	2½"	Buna	150	***DBS61-200***	1711ESL-AL20 / 1711ES-0200
2"	2½"	FKM	150	***DBS62-200***	1712ESL-AL20 / 1712ES-0200
2"	2½"	PTFE encapsulated silicone	150	***DBS63-200***	-

See pages 114 - 124 for repair kits and replacement parts

Dry Disconnects

Valve Handle Locking Kits

Part #	Description
DBCL-200	valve handle locking kit for 1½" & 2" couplers
DBCL-300	valve handle locking kit for 3" couplers

DBCL-200

Cam and 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 23, 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.
Standards:	Use with Dixon Bayco DBA series adapters. Manufactured to interchange with other cam and groove type dry disconnect couplings.
Materials:	316 Stainless steel bodies with Buna [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. 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.
Features & Benefits:	• Helps eliminate the possibility of costly spills • Compatible with most other brands of cam and 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 21 and 22. • Use standard cam and 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).

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

Female NPT Couplers

Female NPT Size	Coupler Size	Seal Material	Max PSI @ 70°F (21°C)	Stainless Steel Part #	Competitor Part #
1½"	2"	Buna	210	***D2C71-150***	2271D-SS15
2"	2½"	Buna	150	***D2C71-200***	2271D-SS20
1½"	2"	FKM	210	***D2C72-150***	2272D-SS15
2"	2½"	FKM	150	***D2C72-200***	2272D-SS20
1½"	2"	PTFE encapsulated silicone	210	***D2C73-150***	2273D-SS15
2"	2½"	PTFE encapsulated silicone	150	***D2C73-200***	2273D-SS20
1½"	2"	EPDM	210	***D2C74-150***	2274D-SS15
2"	2½"	EPDM	150	***D2C74-200***	2274D-SS20

D2C71-150

D2C71-200

See page 122 for repair kits and replacement parts

Dry Disconnects

Petroleum Products

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.
Standards:	Manufactured to interchange with other brands of bayonet type dry disconnect couplings. Canadian registration number CRN #OH14055 all provinces.
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 buna or FKM seals. [1] Dependent upon part #, see part number list below for more details.
Features & Benefits:	• 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**, for pressure ratings at other temperatures contact Dixon®.

BA32-200

BA62-300

Female NPT Adapters

Female NPT Size	Seal Material	Description	Part #	Competitors Part #	Rubber Dust Cap Part #
2"	Buna	stainless steel body with brass poppet valve	***BA31-200***	J72A-BBN0-B / J72A-ABN0-B	***BAC-200***
2"	FKM	stainless steel body with brass poppet valve	***BA32-200***	J72A-BVN0-B / J72A-AVN0-B	***BAC-200***
3"	Buna	brass body and poppet valve	***BA31-300***	J73A-BBN0-B	***BAC-300***
3"	FKM	brass body and poppet valve	***BA32-300***	J73A-BVN0-B	***BAC-300***
3"	Buna	anodized aluminum body and poppet valve	***BA61-300***	J73A-ABNO-B	***BAC-300***
3"	FKM	anodized aluminum body and poppet valve	***BA62-300***	J73A-AVN0-B	***BAC-300***

See page 123 for replacement parts.

BC61-200

BSS61-300

BS61-300

Female NPT Couplers

Female NPT Size	Seal Material	Description	Part #	Competitors Part #	Rubber Dust Plug Part #
2"	Buna	anodized aluminum body with straight non-swiveling NPT connection	***BC61-200***	J72C-ABNO-B	***BCP-200***
2"	FKM	anodized aluminum body with straight non-swiveling NPT connection	***BC62-200***	J72C-AVNO-B	***BCP-200***
2"	Buna	aluminum body with straight swiveling NPT connection	***BSS61-200***	J72C-ABN1-B	***BCP-200***
2"	FKM	aluminum body with straight swiveling NPT connection	***BSS62-200***	J72C-AVN1-B	***BCP-200***
2"	Buna	aluminum body with 90° swiveling NPT connection	***BS61-200***	J72C-ABN2-B	***BCP-200***
2"	FKM	aluminum body with 90° swiveling NPT connection	***BS62-200***	J72C-AVN2-B	***BCP-200***
3"	Buna	aluminum body with straight swiveling NPT connection	***BSS61-300***	J73C-ABN1-B	***BCP-300***
3"	FKM	aluminum body with straight swiveling NPT connection	***BSS62-300***	J73C-AVN1-B	***BCP-300***
3"	Buna	aluminum body with 90° swiveling NPT connection	***BS61-300***	J73C-ABN2-B	***BCP-300***
3"	FKM	aluminum body with 90° swiveling NPT connection	***BS62-300***	J73C-AVN2-B	***BCP-300***

Dry Disconnects

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.
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.
Features & Benefits:	• Simple to use • Low cost • Durable and flexible rubber • Prevents contamination of product

BAC-300

BCP-300

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

Fuel Tanker

API Couplers

NOW WITH EXCLUSIVE 5 YEAR MECHANICAL WARRANTY[1]

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

Application:	API couplers are used at the petroleum loading rack for bottom loading of petroleum tankers. They are mounted to the rack loading arm, using the built in 4" TTMA flange connection. When the empty Petroleum tanker pulls into the loading rack to load, the API couplers are connected to the API valves on the tanker. The connection interface consists of a poppet and a plunger, which ensures a positive spill free connection.
Standards:	Manufactured to American Petroleum Institute standard API RP-1004, which allows for positive connection to API valves such as the Dixon Bayco 5204 series API valves
Materials:	356 T6 aluminum anodized hard coat body, aluminum handle, stainless steel hardware, buna, FKM-B and FKM GFLT seals.
Features & Benefits:	• Modular design, allows various face seal combinations, and very easy no special tools required maintenance • Shaft seals can be changed without removing coupler from loading arm • Locking 5 cam design for easy alignment and tight connection and safety interlock to help ensure coupler properly attached before valve opens. • **5300BCL** is for use in railcar applications with investment cast stainless steel locking handle. • Ball-end handle for easy, comfortable operation • Choice of either a bonded nose seal, which offers a long life and cannot be washed out, or replaceable nose seal, which allows quick seal replacement without removal from the loading arm. • Link, shaft, pin and crank: hardened 17-4PH stainless steel • Maximum working pressure **150 PSI** to include 5300, 5300B, 5300BC, 5300BCL. 5300G maximum working pressure **100 PSI**. Maximum flow **1000 GPM, (3785 LPM)**. Pressure drop of only **3 to 4 PSI**. 5400 series maximum working pressure **75 PSI** • FKM-B: **-10°F** to **400°F (-23°C** to **204°C)**, FKM-GFLT: **-20°F** to **400°F** (**-28°C** to **204°C**), Buna seals: **-20°F** to **250°F (-28°C** to **121°C)** • Biofuel compatible up to E100 (100% Ethanol) and B100 (100% bio diesel) dependent upon part #, see part number list below for more details For detailed fuel compatibility, refer to page 4. • FKM - Brown dot, FKM B - Yellow dot, FKM GFLT - Green dot

API Coupler with Bonded Nose Seal

API Coupler

Part #	Seal Material	Fuel Compatibility
5300	Buna seals	Gasoline and diesel, up to E100 and B20 biofuels
5300B	FKM-B	Gasoline and diesel, up to E100 and B100 biofuels
5300G	FKM GFLT	
5300GC	FKM GFLT	Gasoline and diesel, up to E100 and B100 biofuels, crude oil
5300BC	FKM-B	
5300BCL	FKM-B	

API Coupler with Replaceable Nose Seal

5354P1

Part #	Seal Material	Fuel Compatibility
5400	Buna seals	Gasoline and diesel, up to E100 and B20 biofuels
5400B	FKM-B	Gasoline and diesel, up to E100 and B100 biofuels
5400G	FKM GFLT	
Part #	**Description**	
5354P1	plug for API rack couplers	
5204H	rack coupler hanger	

See pages 78-80 for repair kits and replacement parts

Fuel Tanker

Aluminum Groove Clamps

Features & Benefits:	• 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. • Temperature ratings FKM-B: **20°F** to **300°F** (**-6.7°C** to **149°C**), Baylast™ and Buna: **-20°F** to **180°F** (**-28.9°C** to **82.2°C**)

Size	Seal	Part #	Max. PSI	Approx. Weight Lbs.	Bolt Torque [1]	Fuel Compatibility
2"	Buna	***DBV-BN200***	400	0.8	20 ft lbs	Gasoline and diesel only
2"	FKM-B	***DBV-VB200***	400	0.8	20 ft lbs	Gasoline and diesel, up to E100 & B100 Biofuels
2"	Baylast™	***DBV-BL200***	400	0.8	20 ft lbs	
3"	Buna	***DBV-BN300***	170	1.1	20 ft lbs	Gasoline and diesel only
3"	FKM-B	***DBV-VB300***	170	1.1	20 ft lbs	Gasoline and diesel, up to E100 & B100 Biofuels
3"	Baylast™	***DBV-BL300***	170	1.1	20 ft lbs	
4"	Buna	***DBV-BN400***	120	1.5	20 ft lbs	Gasoline and diesel only
4"	FKM-B	***DBV-VB400***	120	1.5	20 ft lbs	Gasoline and diesel, up to E100 & B100 Biofuels
4"	Baylast™	***DBV-BL400***	120	1.5	20 ft lbs	

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 and Benefits:

- Painted red
- Baylast™ rated for biodiesel, Ethanol, diesel, gas and ULSD
- Groove x groove

Size	Seal	Maximum PSI	Part #
2"	Baylast™	500	***L02BL***
3"	Baylast™	300	***L03BL***
4"	Baylast™	300	***L04BL***

L02BL

Replacement Clamp Gaskets

Clamp Size	Part #	Seal	Fuel Compatibility
2"	***G200T***	Buna (1 orange stripe)	Gasoline and diesel only
3"	***G300T***	Buna (1 orange stripe)	
4"	***G400T***	Buna (1 orange stripe)	
2"	***G200VB***	FKM-B (2 red stripe)	Gasoline and diesel, up to E100 & B100 Biofuels
3"	***G300VB***	FKM-B (2 red stripe)	
4"	***G400VB***	FKM-B (2 red stripe)	
2"	***G200BL***	Baylast™ (2 orange stripes)	
3"	***G300BL***	Baylast™ (2 orange stripes)	
4"	***G400BL***	Baylast™ (2 orange stripes)	

G400T

Fuel Nozzles

Farm and Consumer Nozzles

gasoline

diesel

Features & Benefits:

- Micro-touch valve provides smooth operation and exceptional flow control
- Pure PTFE stem packing eliminates leaks
- Heavy duty, strong, secure hook makes it easy to hang the nozzle on the pump
- Roto-matic latch pin provides positive auto shut-off
- Smartguard snap-on scuff guard
- With trigger hold-open clip
- Non Underwriters Listed nozzle

Female NPT Inlet	Spout Size	Intended Service	Approximate Flow Rate At 20 PSI (GPM)	Approximate Weight Lbs	Scuff Guard Color	Part #
¾"	13/16"	gasoline	18	2½	black	***DN7UOBF***
¾"	15/16"	diesel	23	2½	green	***DN7LOBF***

Big Mouth™ Diesel Nozzles

Features & Benefits:

- *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
- Snap-on handle cover makes changing scuff guards easy
- With trigger hold-open clip
- Non Underwriters Listed nozzle

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

Fuel Master™ Diesel Nozzles

DFN100HF

DFN100SF

Features & Benefits:

- 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
- Easy to change 'locknut style' spout assembly
- With trigger hold-open clip
- Non Underwriters Listed nozzle

Female NPT Inlet	Spout Size	Intended Service	Approximate Flow Rate At 20 PSI (GPM)	Approximate Weight Lbs	Scuff Guard Color	Part #
1"	1-3/16"	diesel	35	3½	green	***DFN100HF***
1"	1-3/16"	diesel	45	3½	green	***DFN100SF***

DEF Automatic Shutoff Nozzles

Features & Benefits:

- Designed for diesel exhaust fluid, aluminum body double coated inside and out with PTFE baked on at 500°F
- Spout: stainless steel
- Wetted parts: stainless, acetal, PTFE
- Seals are FKM-A

BSPP Inlet	Spout Size	Intended Service	Approximate Flow Rate At 20 PSI (GPM)	Approximate Weight Lbs	Scuff Guard Color	Part #

Fuel Nozzles

Fueler 100™ Automatic Diesel Nozzles

Features & Benefits:	• Good flow rating of **75 GPM** (**at 30 PSI**) • Light weight Tenzaloy aluminum casting • Tough, reliable and easy to operate automatic nozzle for fueling trucks, buses, off-road equipment and fuel oil delivery • Replaces 1124D and 1144D

Female NPT Inlet	Spout Size	Intended Service	Approximate Flow Rate At 30 PSI (GPM)	Approximate Weight Lbs	Part #
1¼"	1-3/8"	diesel	75	6⅞	***DNOG5-NL***[1]
1¼"	1-3/8"	diesel	75	6⅞	***DNOG5***
1½"	1⅜"	diesel	75	6⅞	***DNOG6***

[1] The DNOG5-NL is a 1¼" nozzle without the locking handle

Replacement Nozzles

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

Pressure Nozzles for Bulk Delivery

Features & Benefits:	• High flow design, 1½" nozzle (112D) provides **100 GPM** flow at approx **10 PSI** • Easy opening dash pot design with shock-less closing • Available with or without an aluminum spout (brass spouts optional) • Detachable and replaceable trigger ratchet

Female NPT Inlet	Outlet Type	Part #
1¼"	1¼" aluminum spout	***114D***
1¼"	1¼" female NPT	***114DNS***
1½"	1½" aluminum spout	***112D***
1½"	1½" female NPT	***112DNS***

112D

Replacement Spouts

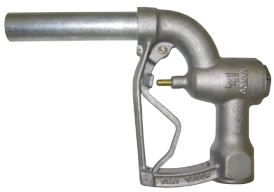
Male NPT Size	Description	Part #
1¼"	replacement aluminum spout	***1143A***
1¼"	optional brass spout	***1143B***
1½"	replacement aluminum spout	***1125A***
Female NPT inlet: 1½", outlet type: 1¼"	1½" spout crimped to 1¼"	***1125A-125NPT***
1½"	optional brass spout	***1125B***

112DNS

See page 130-131 for repair kits and replacement parts.

Large Capacity Low Pressure Gravity Nozzle

Female NPT Inlet	Outlet Type	Part #
1¼"	1¼" aluminum spout	***1250-94***



See page 133 for repair kits and replacement parts.

Fuel Nozzles

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.
Standards:	Manufactured to connect to NPT threaded hose connections
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, buna and PTFE seals, Acetal valve seat and stainless steel valve ball. Please 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.
Features & Benefits:	• 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 1¼ and 1½" ball nozzles, and kit BL-RK112 for 2" Super Ball nozzles) • Available with field replaceable outlet spout or quick fill swivel nut.

BL072

BL072NS

BL062/BL064

BL920

Female NPT Swivel Inlet	Outlet Type	Part #
1¼"	quick fill nut	***BL062***
1¼"	1¼" aluminum spout	***BL066***
1¼"	1¼" female NPT	***BL066NS***
1½"	1¼" aluminum spout	***BL068***
1½"	1¼" female NPT	***BL068NS***
1½"	quick fill nut	***BL064***
1½"	1½" aluminum spout	***BL072***
1½"	1½" female NPT	***BL072NS***
1½"	2" aluminum spout	***BL918***
2"	1½" aluminum spout	***BL919***
2"	2" aluminum spout	***BL920***

Replacement Spouts and Quick Fill Swivel Nuts

BL002

Male NPT Size	Description	Part #
1¼"	replacement aluminum spout	***1143A***
	replacement brass spout	***BLS125***
	bronze quick fill nut adapter for BL066NS and BL068NS	***BL002***
1½"	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***

See pages 134-137 for repair kits and replacement parts

Fuel Nozzles

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.
Standards:	Manufactured to connect to NPT threaded hose connections.
Materials:	Die cast zinc body, plated steel trigger and aluminum spout, buna seals Please 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.
Features & Benefits:	• Rugged design • Good flow rating, provides 95 GPM flow at approximately **20 PSI** • Choice of ¾" or 1" inlets, and a variety of outlets and spouts

Female NPT Inlet	Outlet Type	Part #
¾" [1]	¾" straight spout	***900S34***
¾" [1]	¾" bent spout	***900B34***
1"	1" UNS female thread (nozzle body only)	***900***
1"	¾" straight spout	***900W34S***
1"	¾" bent spout	***900W34B***
1"	1" straight spout	***900S***
1"	1" bent spout	***900B***

900B

[1] Nozzles with ¾" female NPT inlet, use a steel bushing to achieve ¾" female NPT inlet.

Replacement Spouts

Description	Part #
¾" replacement straight spout	***234-80-4***
¾" replacement bent spout	***234-80-5***
1" replacement straight spout	***875-4***
1" replacement bent spout	***875-5***

875-5

Fuel Nozzles & Swivels

Aircraft Over Wing Nozzles

Application:	Aircraft over wing nozzles are manual operation (do not have an automatic flow shut off) they are used for fueling aircraft that have fuel tank access from the top of the wing.
Standards:	Manufactured to connect to NPT threaded hose connections.
Materials:	Aluminum body, bronze trigger, aluminum spout, Buna seals, plastic wing guard and spout cap, stainless steel mesh screen. Please 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.
Features & Benefits:	• High flow design provides approximately **60 GPM @ 20 PSI** • Easy opening dash pot design with shock less closing • Plastic wing guard protects the aircraft wing during fueling • Detachable and replaceable trigger ratchet • Aluminum spout has a plastic cap with spring cord, to prevent drips and scratches • Nozzle includes a fine mesh stainless steel screen filter • Screw attachment for grounding cable

114DAV-06ASM

Female NPT Inlet	Outlet type	Part #
1¼"	1" aluminum spout	***114DAVR***
1¼"	1¼" aluminum spout	***114D-AV***
1½"	1¼" aluminum spout	***114D-AV-06ASM***

See page 130 for repair kits and replacement parts.

Male x Female NPT Nozzle Swivels

Standards:	Manufactured to connect to NPT threaded hose and nozzle connections
Materials:	¾" and 1" sizes, aluminum body, brass hex nut, FKM / Buna seals, nylon cord retainer. 1¼" - 2" sizes, Bayloy body, hardened carbon steel swivel ball race, through hardened chrome steel ball bearings, buna and PTFE seals Please 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.
Features & Benefits:	**150 PSI** maximum rating

SWMF150

Size	Description	Part #
¾"	male NPT x female NPT	***DAWS34***
1"	male NPT x female NPT	***DAWS10***
1¼"	male NPT x female NPT	***SWMF125***
1½"	male NPT x female NPT	***SWMF150***
2"	male NPT x female NPT	***SWMF200***

Male NPT x Hose Shank Swivel

1565U

Size	Description	Part #
1½"	male NPT x hose shank, Buna-N seal	***1565U***

See page 131 for repair kits and replacement parts.

Fuel Swivels

Breakaways

Application:	Provides breakaway protection for high capacity fueling operations such as truck and bus terminals, mining, off-road fueling and fuel oil delivery.
Materials:	Aluminum body
Features & Benefits:	• Buna seals • Unique ball valves seal both ends when separated • Design provides consistent and reliable performance • Lightweight • Easy to repair • ¾" is Underwriter's Listed

Size	Number Of Brass Break Rings	Separation Force (Lbs)	Part #
¾"	2	325	***DAB34***
1"	2	325	***DAB1***

DAB34

Application:	Provides breakaway protection for high capacity fueling operations such as truck and bus terminals, mining, off-road fueling and fuel oil delivery.
Materials:	Nickel plated aluminum body
Features & Benefits:	• FKM / Buna seals • Check valve - PTFE ball seals both ends when separated

Size	Number Of Brass Break Rings	Separation Force (Lbs)	Part #
1¼"	4	600	***DAB14***
1½"	4	600	***DAB15***
2"	6	800	***DAB2***

DAB15

Fuel Tank Accessories

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.
Standards:	Manufactured to thread into both NPS and NPT tank openings
Materials:	Die cast zinc body, brass screen
Features & Benefits:	• 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 • Pad-lockable to prevent fuel theft and tampering

2500L

Male NPT	Part #
2"	***2000L***
2½"	***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.

Standard Vent Caps for Stationary Tanks

2500SFV

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

Male NPS	Part #
2½"	***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.

Automatic Pressure/Vacuum Relief Caps for Mobile Tanks

200-PV-9

Features & Benefits:	• 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 • Pad-lockable 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.

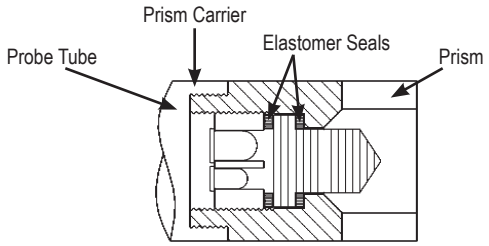
FloTech™ Overfill Detection System

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

Fuel Tanker Overfill Detection

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.
Standards:	Manufactured to American Petroleum Institute standard API RP-1004, which allows for drop in interchange ability with other brands.
Materials:	Dependent upon the component, see each product section for materials.
Features & Benefits:	• 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.



Customer Support
877.582.3569

- "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 page 167 for details.

- Biofuel compatible: up to E100 (100% Ethanol) and B100 (100% Bio Diesel). For detailed fuel compatibility, please refer to the chart shown on page 4.

- Probes are rated to 36PSIG per 49 CFR 178.345-5 Temp Range -40°F to 160°F refractive index range 1.37 to 1.60 viscosity less than 1000SSU.

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

Fuel Tanker Overfill Detection

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.
Standards:	Manufactured to American Petroleum Institute standard API RP-1004, which allows for interchangeability.
Materials:	Dependent upon the component, see each product section for materials
Features & Benefits:	• 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% bio diesel)

Monitors with Integrated Dual Sockets

Features & Benefits:	• 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							✓	6 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

Fuel Tanker Overfill Detection

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	✓						✓	6 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	✓						✓	6 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	✓	✓	✓		✓		✓		

See pages 138 and 139 for repair kits and replacement parts.

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

Biofuel Compatible

Fuel Tanker Overfill Detection

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

Features & Benefits:	
	• 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

monitor

FT295

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

See page 140 for repair kits and replacement parts.

Stand Alone Socket Assemblies

Features & Benefits:	
	• 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.

FT390PG-20

Part #	Socket	API Optic	Thermistor	Optic J560	Internal Ground Wire
FT300P	single socket	6 contact pins and 3 J-slot	---	---	---
FT300PG	single socket	6 contact pins and 3 J-slot	---	---	✓
FT301P	single socket	---	8 contact pins and 4 J-slot	---	---
FT306P	single socket	---	---	✓	---
FT390PG-20 [1]	dual socket, 20 ft cable	6 contact pins and 3 J-slot	8 contact pins and 4 J-slot	---	✓
FT394P [1]	triple socket	6 contact pins and 3 J-slot	10 contact pins and 4 J-slot	✓	---
FT394PG [1]	triple socket	6 contact pins and 3 J-slot	10 contact pins and 4 J-slot	✓	✓
FT394VP [1]	triple socket vertical arrangement	6 contact pins and 3 J-slot	10 contact pins and 4 J-slot	✓	---
FT394VPG [1]	triple socket vertical arrangement	6 contact pins and 3 J-slot	10 contact pins and 4 J-slot	✓	✓
FT395P-20 [2]	triple socket, 20' cable	6 contact pins and 4 J-slot	10 contact pins and 4 J-slot	✓	---
FT395PG-20 [2]	triple socket, 20' cable	6 contact pins and 4 J-slot	10 contact pins and 4 J-slot	✓	✓
FT391P-20	dual socket, 20 feet of Plug-n-Play cable, 4 J-slot				
FT391PG-20	dual socket, 20 feet of Plug-n-Play cable, 4 J-slot, internal ground wire				

[1, 2] Guaranteed for life stainless steel wear rings included (U.S. [1], Canada [2])

See pages 141 - 146 for repair kits and replacement parts.

Fuel Tanker Overfill Detection

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

Features & Benefits:	
	• 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 2⅜" 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***

See page 147 and 149 for repair kits and replacement parts.

Retain Sensors

Features & Benefits:	
	• 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 ½" 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

See page 148 and 150 for repair kits and replacement parts.

Fuel Tanker Overfill Detection

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

Features & Benefits:	• 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.

Part #	Description
overfill detection Plug-n-Play cable harnesses for full length tank trailers	
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	
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	
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	
FT20800-EXT-2FT	2 ft monitor to harness extension
FT20800-EXT-8	8 ft monitor to harness extension
FT20800-EXT-25	25 ft monitor to harness extension
FT20800-EXT-36	36 ft monitor to harness extension

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

FloTech™ Checkmate Overfill Detection (Black & White 2 Wire) Systems (Top Detection Only)

Features & Benefits:	• 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

Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

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

Features & Benefits:	• 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 & retain) - 7" probes
FT2812	Checkmate, 2 compartment system (overfill & retain) - 7" probes
FT2813	Checkmate, 3 compartment system (overfill & retain) - 7" probes
FT2814	Checkmate, 4 compartment system (overfill & retain) - 7" probes
FT2815	Checkmate, 5 compartment system (overfill & retain) - 7" probes
FT2816	Checkmate, 6 compartment system (overfill & retain) - 7" probes
FT2817	Checkmate, 7 compartment system (overfill & retain) - 7" probes
FT2818	Checkmate, 8 compartment system (overfill & retain) - 7" probes
FT2811-12	Checkmate, 1 compartment system (overfill & retain) - 12" probes
FT2812-12	Checkmate, 2 compartment system (overfill & retain) - 12" probes
FT2813-12	Checkmate, 3 compartment system (overfill & retain) - 12" probes
FT2814-12	Checkmate, 4 compartment system (overfill & retain) - 12" probes
FT2815-12	Checkmate, 5 compartment system (overfill & retain) - 12" probes
FT2816-12	Checkmate, 6 compartment system (overfill & retain) - 12" probes
FT2817-12	Checkmate, 7 compartment system (overfill & retain) - 12" probes
FT2818-12	Checkmate, 8 compartment system (overfill & retain) - 12" probes

Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

FloTech™ Checkmate Overfill/Retain (Black & White 2 Wire) System Replacement Parts

Checkmate Onboard Monitors

Features & Benefits:	
	• 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 61 - 64. • 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)

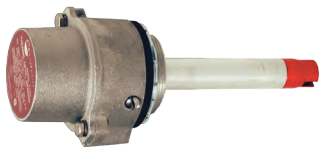
See page 153 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

FT208

Overfill Detection Sensors

Features & Benefits:	
	• 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 2⅜" 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 & Benefits:	
	• 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 ½" 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 inline and parallel dual port housing.

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

See page 150 and 152 for repair kits and replacement parts.

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

Fuel Tanker Overfill Detection

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

Features & Benefits:	• 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 & Benefits:	• 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 & retain) - 7" probes
FT2002	ROM type, 2 compartment system (overfill & retain) - 7" probes
FT2003	ROM type, 3 compartment system (overfill & retain) - 7" probes
FT2004	ROM type, 4 compartment system (overfill & retain) - 7" probes
FT2005	ROM type, 5 compartment system (overfill & retain) - 7" probes
FT2006	ROM type, 6 compartment system (overfill & retain) - 7" probes
FT2001-12	ROM type, 1 compartment system (overfill & retain) - 12" probes
FT2002-12	ROM type, 2 compartment system (overfill & retain) - 12" probes
FT2003-12	ROM type, 3 compartment system (overfill & retain) - 12" probes
FT2004-12	ROM type, 4 compartment system (overfill & retain) - 12" probes
FT2005-12	ROM type, 5 compartment system (overfill & retain) - 12" probes
FT2006-12	ROM type, 6 compartment system (overfill & retain) - 12" probes

Fuel Tanker Overfill Detection

FloTech™ ROM Type Overfill/Retain (Red & Black 2 Wire) System Replacement Parts

ROM Type Onboard Monitors

Features & Benefits:	
	• 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 68 - 71. • 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.

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)

See page 152 for repair kits and replacement parts.

FT204P

Overfill Detection Sensors

Features & Benefits:	
	• 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 2⅜" 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
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***

FT202

See page 151 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

Fuel Tanker Overfill Detection

FloTech™ ROM Type Overfill/Retain (Red & Black 2 Wire) System Replacement Parts

Retain Sensors

Features & Benefits:	• The FT206 is a retain detection sensor shipped with a ½" 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 R/OM 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

See page 150 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

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.
Standards:	Drop in replacement for the Civacon ROM Link™ sensors 1554-007 & 1554-0012.
Materials:	Aluminum housing with stainless steel hardware
Features & Benefits:	• 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 2⅜" 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.

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
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	gender adapter
10605PL	Plug-n-Play harness to monitor connector clip

Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

Fuel Tanker Overfill Detection

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 39 thru 45.
Materials:	Dependent upon the component, see each product section for materials
Features & Benefits:	• See the features and benefits of each of the system components • Biofuel compatible up to E100 (100% Ethanol) and B100 (100% bio diesel)

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

Features & Benefits:	• 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, FT300 open socket, 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	
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

Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

Fuel Tanker Overfill Detection

FloTech™ API Optic Overfill Detection (5 Wire) Systems Replacement Parts

Onboard Monitors

Features & Benefits:	• 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 58 - 62. • Signal translation ability, allows the connection all socket types (optic, thermistor or float). The system offers true load at any rack compatibility.

FT103

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

See page 153 for repair kits and replacement parts

Overfill Detection Sensors

Features & Benefits:	• 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 2⅜" diameter tank opening using the gasket and locking nut provided.

FT101

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***

See page 149 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

Stainless Steel Probe and Sensor Housings

Black and White 2 Wire

FT150S

Features & Benefits:	• The FloTech™ stainless steel probes and sensor housings are designed to be used with chemicals. All wetted services are 316 stainless 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. • Maximum working pressure **900 PSI** at **70°F (21°C)** • **Custom probe lengths can be available by using ¾" pipe nipples upon request.**

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)

See page 152 for repair kits and replacement parts.

5 Wire

FT191S and FT100S

Features & Benefits:	• The FloTech™ stainless steel probes and sensor housings are designed to be used with chemicals. All wetted services are 316 stainless or PTFE. These probes are designed to thread onto a DOT 407 tank 3" clean out nipple. Sensor length can be adjusted using ¾" 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. • Maximum working pressure **900 PSI** at **70°F (21°C)** • Custom probe lengths available upon request.

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)

See page 152 for repair kits and replacement parts.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

Single Sockets with Aluminum Hardcoat J-slot

FT300

FT300GW

FT301

FT302

Features & Benefits:	• 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
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
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

See pages 154 thru 156 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

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

FT300SSGW

FT301SS

Features & Benefits:	• 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

See pages 154 thru 156 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

EZ-Cept Double Sockets

FT390

Features & Benefits:	• 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 6 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings (US)
FT390V	Optic 6 pin, 3 J-slot, and thermistor 10 pin, 4 J-slot, vertical mount, GFL stainless J-slot wear rings (US)
FT390G	Optic 6 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 6 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 6 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 6 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 6 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 6 pin, 4 J-slot, and thermistor 10 pin, 4 J-slot, horizontal mount, GFL stainless J-slot wear rings (Canada)
FT391V	Optic 6 pin, 4 J-slot, and thermistor 10 pin, 4 J-slot, vertical mount, GFL stainless J-slot wear rings (Canada)

See pages 157 and 158 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

EZ-Cept Triple Sockets

FT394

Features & Benefits:	• 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 6 pin, 3 J-slot, thermistor 10 pin, 4 J-slot, and float J560, horizontal mount, GFL stainless J-slot wear rings (US)
FT394	Optic 6 pin, 3 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, horizontal mount, GFL stainless J-slot wear rings (US)
FT394G	Optic 6 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 6 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 6 pin, 4 J-slot, thermistor 10 pin, 4 J-slot, and optic J560, horizontal mount, GFL stainless J-slot wear rings (Canada)
FT395G	Optic 6 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 6 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-G	Optic 6 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)

See pages 159 thru 160 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

Socket Cleaner

Application:	• Used to clean dirty or corroded overfill socket contact blocks.
Features & Benefits:	• 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 & Benefits:	• 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

Fuel Tanker Overfill Detection

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 NEW

See page 161 and 162 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

FloTech™ Checkmate Overfill/Retain (Black & White 2 Wire) System Sensor Dummy

Part #	Description
FT155	Thermistor sensor dummy (each dummy adds up to 5 compartments)

Fuel Tanker Overfill Detection

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 & Benefits:	• 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	5 wire API optic
FT400-500	500' of 5 conductor cable	5 wire API optic
FT400-1000	1000' of 5 conductor cable	5 wire API optic
FT401	100' of 7 conductor cable	red and black 2 wire ROM type
FT401-150	150' of 7 conductor cable	red and black 2 wire ROM type
FT401-1000	1000' of 7 conductor cable	red and black 2 wire ROM type
FT404	100' of 11 conductor cable	black and white 2 wire Checkmate/Thermistor type
FT404-150	150' of 11 conductor cable	black and white 2 wire Checkmate/Thermistor type
FT404-1000	1000' of 11 conductor cable	black and white 2 wire Checkmate/Thermistor type
Cable Strain Reliefs (Glands)		
FT402	20 pc pack of strain relief fittings, ½" NPT	
FT403	30 pc pack of strain relief fittings, ½" NPT	
FT405-500	500 pc pack of strain relief fittings, ½" NPT	
Cable Tools and Supplies		
FT9023	professional cable stripping tool	
FT9024	professional cable crimping tool	
FT9021	100 pc 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	

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.

Fuel Tanker Overfill Detection

Optic System Testers

Application:	Used to trouble shoot overfill system circuits
Standards:	Will work with any optic overfill system
Materials:	Durable plastic case, heavy duty cable connectors and test leads
Features & Benefits:	The FT520 optic test kit includes a tester and test lead set to test 5 wire optic pulse, 5 wire optic probes, two wire optic probes, plug & play optic probes as well as onboard monitor & 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)

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

FT520

FT520WOGA

Trailer Identification Module Chip Readers

Application:	Designed to read and test Trailer Identification Modules mounted inside API compatible overfill sockets.
Features & Benefits:	• 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

Fuel Tanker Overfill Detection

FloTech™ Truck Testers

FT555

FT555PA

Application:	Allows complete testing of ground bolt grounding systems. Tests ground bolt in forward and reverse just like the rack monitor.
Features & Benefits:	• 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 signal 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)

FloTech™ FT590 Series Rack Monitor Testers and Mini Trailer Overfill System

FT590TG

Part #	Description
FT590TG	rack tester with grounding bolt
FT590TGT	rack tester thermistor
FT590OG	rack tester with ground bolt
FT590OGT	rack tester with ground bolt and Trailer Identification Module

Fuel Tanker Overfill Detection

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.
Standards:	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.
Features & Benefits:	• 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

API Optic Cord Assemblies

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 w/30 Straight Cable
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

FT620

See pages 164 and 165 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

API Thermistor Cord Assemblies

Part #	Description
FT600	green plug with 8 contact pins and 2 J-slot, on a 30' coiled orange cable
FT600-4	green plug with 8 contact pins and 4 J-slot, on a 30' coiled orange cable
FT600P	green plug with 8 contact pins and 2 J-slot on a 30' orange coiled cord and 13 pin connector nylon J560 plug
FT600P-4	API Thermistor plug, 13 contact pins, J560, 4 J-slot, 8 pin, w/30' coiled cable
FT600S	green plug with 8 contact pins and 2 J-slot, on a 20' straight orange cable
FT600S-4	API Thermistor plug, 8 contact pins, 4 J-slot, on a 20' straight cable
FT600C	green plug with 10 contact pins and 4 J-slot, on a 30' coiled orange cable
FT600C-2	API Thermistor plug, 2 J-slot, on a 30' cord
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 2 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 NEW

FT600

See pages 162 and 163 for repair kits and replacement parts.
Please refer to chart on pages 70 thru 73 for cross references to other manufacturer part numbers.

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Tanker Overfill Detection

FloTech™ Junction Boxes

FT7500

FT7501

FT7502

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 & Benefits:	• Water-tight construction helps prevents 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

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	2
FT7600-4	*FT7500*	*FT600-4*	flying leads	30'	orange	coiled	8	green	4
FT7600C	*FT7500*	*FT600C*	flying leads	30'	orange	coiled	10	green	4
FT7600C-2	*FT7500*	*FT600C-2*	flying leads	30'	orange	coiled	10	green	2
FT7600CP	*FT7502*	*FT600CP*	yellow 13 pin plug	30'	orange	coiled	10	green	4
FT7600P	*FT7502*	*FT600P*	yellow 13 pin plug	30'	orange	coiled	8	green	2
FT7600P-4	*FT7502*	*FT600P-4*	yellow 13 pin plug	30'	orange	coiled	8	green	4
FT7600S	*FT7500*	*FT600S*	flying leads	20'	orange	straight	8	green	2
FT7600SC	*FT7500*	*FT600SC*	flying leads	20'	orange	straight	10	green	4
FT7600SP	*FT7502*	*FT600SP*	yellow 13 pin plug	20'	orange	straight	8	green	4
FT7605C	*FT7500*	*FT605C*	flying leads	30'	orange	coiled	6	green	4
FT7620	*FT7500*	*FT620*	flying leads	30'	blue	coiled	6	blue	3
FT7620P	*FT7502*	*FT620P*	metal J560	30'	blue	coiled	6	blue	3
FT7620S	*FT7500*	*FT620S*	flying leads	20'	blue	straight	6	blue	3
FT7620SP	*FT7502*	*FT620SP*	metal J560	20'	blue	straight	6	blue	3
FT7630	*FT7500*	*FT630*	flying leads	30'	blue	coiled	10	black	4
FT7630D	*FT7503*	*FT630D*	D connector	30'	blue	coiled	10	black	4
FT7640-3	*FT7500*	*FT640-3*	flying leads	30'	blue	coiled	10	black	3
FT7640-4	*FT7500*	*FT640-4*	flying leads	30'	blue	coiled	10	black	4

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

FloTech™ FT7000 Series Rack Control Monitor

FT7000

NEW

Application:	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.
Standards:	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
Material:	Explosion proof IP54 weathertight aluminum powder coated housing
Features & Benefits:	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 or through FloTech™ terminal software. • 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. Compatibility:

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

Fuel Tanker Overfill Detection

API Rack Cord Assemblies

FloTech™ Part #	Civacon Part #	Scully Part #	API		Cord		J-Slot			Pin			Breakaway Plug	
			Thermistor	Optic	20' Straight	30' Coiled	2	3	4	6	8	10	Optic J560 Aluminum	Thermistor 13 Pin Plastic
FT600	7300SR-7300	21818	✓			✓	✓				✓			
FT600C	7300CSR-7300	31090	✓			✓			✓			✓		
FT600C-2	7300C-7300	---	✓			✓	✓					✓		
FT600P	7320SR-7320	---	✓			✓	✓				✓			✓
FT600S	7300-STRAIGHT	20830	✓		✓		✓				✓			
FT600SC	7300C-STRAIGHT	---	✓		✓				✓			✓		
FT600S-4	---	---	✓		✓				✓		✓			
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	2	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 & Benefits:	• Supplied with a 3/32" OD 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

Fuel Tanker Overfill Detection

FloTech™ Replacement Parts

Part #	Previous Part #	Description	Refer to Page
FT9000	---	sensor housing 2" NPT with parallel ports, complete with all hardware	151
FT9000P	---	Plug-n-Play sensor housing 2" NPT with parallel ports, complete with all hardware	149
FT9001	---	complete sensor housing gasket and O-ring kit	149, 151
FT9002	---	complete sensor housing gasket, O-ring and hardware kit	151
FT9003	---	replacement on-board monitor housing	153, 154
FT9004	---	replacement on-board monitor hardware kit	153, 154
10142	*FT9005*	replacement on-board bezel 5 wire (FT103)	153
10143	*FT9006*	replacement on-board bezel 2 wire (FT204)	153
10031	*FT9007*	replacement socket rear housing	144, 145, 156, 158
FT9008	---	replacement socket contact block with pins FT300 Optic series	143, 158
FT9009	---	replacement socket contact block with pins FT301 Thermistor series	143, 158
FT9010	---	replacement socket contact block with 10 pins FT304 Thermistor series	158
FT9011	---	replacement sensor housing cap with screws and lock washers	149, 151
10128	---	replacement 2" NPT sensor housing lock nut	149, 151
FT9013	---	replacement socket faceplate 4 J-slot, no contact block or hardware	143, 158
FT9020	---	socket pin, screw and crimp lug	143, 158
FT9021	---	crimp connector 100 pieces per bag	60
FT9022	---	GE RTV 103 silicone rubber sealant 2.8 oz. tube	60
FT9023	---	stripping tool for cable jacket	60
FT9024	---	crimp tool for splice connections	60
FT9025	---	terminal pin, 14-16 AWG 100 pieces	60
250-G-BU	*FT9026, 40090BN*	sensor flat gasket for 2" NPT through punched hole in man lid	149, 151
10125	*FT9027*	sensor housing probe, FKM O-ring	149, 151
FT9029	---	J560 contact block, 7 way	145, 148, 156, 162
FT9030	---	fuse holder with ¼ Amp fuse	153
FT9031	---	fuse holder with ½ Amp fuse	154, 155
10038	*FT9032*	socket face plate gasket	144, 145, 156, 158

Fuel Tanker Overfill Detection

FloTech™ Replacement Parts *(continued)*

Part #	Previous Part #	Description	Refer to Page
10183	*FT9033*	sensor housing, lower no hardware	151
FT9034	---	replacement socket face plate 3 J-slot, no contact block or hardware	143, 158
10459	*FT9035*	program module for FT204P and FT208	141, 142, 154, 155
FT9036	---	FT208 replacement bezel kit	142, 155
FT9037	---	FT520 test lead set	61
10357	*FT9038*	fuse ¼ Amp - for FT103	153
10358	*FT9039*	fuse ½ Amp - for FT208 and FT204	142, 154, 155
FT9040		Checkmate housing with lid	142, 155
10366HC-002	*FT9041*	replacement 3 J-slot, aluminum socket nose ring	144, 158
10366HC-001	*FT9042*	replacement 4 J-slot, aluminum socket nose ring	144, 158
10366SS-002	*FT9043*	replacement 3 J-slot, stainless socket nose ring	141, 144, 146, 148, 158, 160, 162
10366SS-001	*FT9044*	replacement 4 J-slot, stainless socket nose ring	141, 144, 146, 148, 158, 160, 162
10432NP	*FT9045*	replacement gasket for the FT208 series Checkmate lid	142, 155, 141
FT9046	---	bag of 10 replacement socket pins	143, 158
10126	*FT9049*	sensor cap O-ring	149, 151
10347	*FT9050*	threaded half coupling ½" for retain probe	150, 152
FT9051	---	replacement short contact block for FT390/393 Optic 6 pin	141, 146, 147
FT9052	---	replacement short contact block for FT390/393 Thermistor, 10 pin	141, 146, 147
10131	*FT9053*	replacement gasket for bezel on monitors FT103/204P	153, 154
10470AL	*FT9054*	replacement lid frame for monitors FT103/204P	153, 154
FT9059	---	replacement face plate and bezel assembly for FT204P	154
10368SS	*FT9061*	replacement contact pin for FT390/393 series socket	141, 144, 146, 148, 158, 160
FT9062	---	nose ring assembly, Thermistor, 4 J-slot, 10 Pin contact block, pin, and hardware for FT390 & FT393	141, 146, 147, 160
FT9063	---	nose ring assembly, optic, 3 J-slot, 6 Pin contact block, pin, and hard-ware for FT390 & FT393	141, 146, 147, 160
FT9064	---	bezel for FT203P-SPEC	154
FT9065	---	bezel gasket for FT203P-SPEC	154
FT9068	---	replacement contact block attachment screws and washers (4 each)	141, 143, 146, 147, 150, 152, 158,160, 162

Fuel Tanker Overfill Detection

Competitor Cross Reference Chart
Liquid Level Sensors

FloTech™ Part #	Civacon Part #	Scully Part #	Description
FT100	1302-007	9209	Replacement probe, optic, 5-wire, 7" long
FT100-12	1302-0012	9214	Replacement probe, optic, 5-wire, 12" long
FT100-18	1302-0018	---	Replacement probe, optic, 5-wire, 18" long
FT100S	1410RS-0060	---	Replacement stainless steel probe, optic, 5-wire, 7" long
FT101	1112-007 / 1110-007	9208	Sensor, optic, 5-wire, 2" NPT housing, 7" probe
FT101-12	1112-0012 / 1110-0012	9213	Sensor, optic, 5-wire, 2" NPT housing with 12" probe
FT101-18	1112-0018 / 1110-0018	---	Sensor, optic, 5-wire, 2" NPT housing with 18" probe
FT150	1651-007	9409	Replacement probe, thermo-optic, 7" long, 2-wire (black & white)
FT150-12	1651-0012	9414	Replacement probe, thermo-optic, 12" long, 2-wire (black & white)
FT150-18	1651-0018	---	Replacement probe, thermo-optic, 18" long, 2-wire (black & white)
FT151	1551-007	9408	Sensor, thermo-optic, 2" NPT housing, 7" probe, 2-wire (black & white)
FT151-12	1551-0012	9413	Sensor, thermo-optic, 2" NPT housing,12" probe, 2-wire (black & white)
FT151-18	1551-0018	---	Sensor, thermo-optic, 2" NPT housing,18" probe, 2-wire (black & white)
FT151RL	1554-007	---	Sensor, ROM Link™ replacement thermo-optic, 2" NPT housing, 7" probe, 2-wire (black & white)
FT151RL-12	1554-012	---	Sensor, ROM Link™ replacement thermo-optic, 2" NPT housing, 12" probe, 2-wire (black & white)
FT152	---	8819	Thermo optic retain sensor (black & white)
FT155	1920-5	08298 & 08542	Thermistor dummy, 5 compartment
FT201	1351-007	---	Replacement ROM type, 7" top probe, 2-wire (red & black)
FT201-12	1351-0012	---	Replacement ROM type, 12" top probe, 2-wire (red & black)
FT201-18	1351-0018	---	Replacement ROM type, 18" top probe, 2-wire (red & black)
FT202	1057-007	---	Top sensor ROM type, 2" NPT housing, 7" probe, 2-wire (red & black)
FT202-12	1057-0012	---	Top sensor ROM type, 2" NPT housing,12" probe, 2-wire (red & black)
FT202-18	1057-0018	---	Top sensor ROM type, 2" NPT housing,18" probe, 2-wire (red & black)
FT206	1000R & 1001R	---	Retain sensor ROM type, 1/2" NPT sensor (red & black)
FT9000	1355-1355 & 1455-1455	---	Probe housing

Onboard Monitors

FloTech™ Part #	Civacon Part #	Scully Part #	Description
FT102	3150-3150	8563	Replacement module API compatible
FT103	3100-3100	8687	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

Fuel Tanker Overfill Detection

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 & 4820R	9060	EZ-Cept dual socket assembly
FT390G	4822L & 4822R	---	EZ-Cept dual socket assembly with ground bolt

Hardware & 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, ½" NPT
FT403	2530-2530	---	30 strain relief fittings, ½" 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 & 3 J-slot
FT522	1395-1395	---	Optic test plug, 6 pins and 2 or 4 J-slot (plug fits both 2 & 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 2 J-slot, on a 30' coiled orange cable
FT600P	7320SR-7320	---	Green plug with 8 contact pins and 2 J-slot on a 30' orange coiled cord and 13 pin connector
FT600S	7300-STRAIGHT	20830	Green plug with 8 contact pins and 2 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 2 J-slot
FT601-4	---	---	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

Fuel Tanker Overfill Detection

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 & retain, 7" probes
FT2001-12	3021S-0012	---	ROM type, 1 compartment system, overfill & retain, 12" probes
FT2002	3022-3022	---	ROM type, 2 compartment system, overfill & retain, 7" probes
FT2002-12	3022S-0012	---	ROM type, 2 compartment system, overfill & retain, 12" probes
FT2003	3023-3023	---	ROM type, 3 compartment system, overfill & retain, 7" probes
FT2003-12	3023S-0012	---	ROM type, 3 compartment system, overfill & retain, 12" probes
FT2004	3024-3024	---	ROM type, 4 compartment system, overfill & retain, 7" probes
FT2004-12	3024S-0012	---	ROM type, 4 compartment system, overfill & retain, 12" probes
FT2005	3025-3025	---	ROM type, 5 compartment system, overfill & retain, 7" probes
FT2005-12	3025S-0012	---	ROM type, 5 compartment system, overfill & retain, 12" probes
FT2006	3026-3026	---	ROM type, 6 compartment system, overfill & retain, 7" probes
FT2006-12	3026S-0011	---	ROM type, 6 compartment system, overfill & 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

Fuel Tanker Overfill Detection

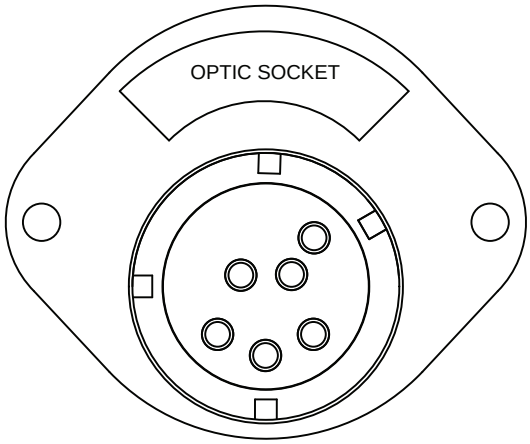
Competitor Cross Reference Chart (continued)

Onboard Systems

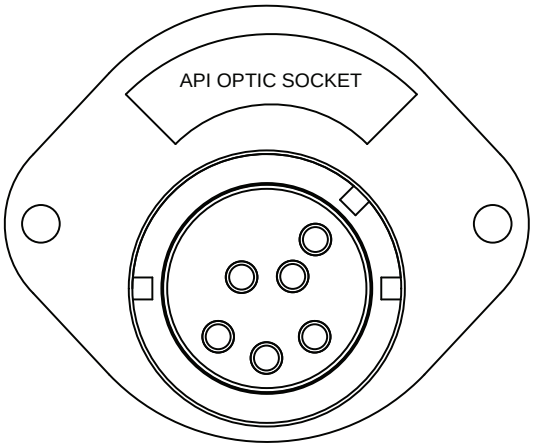
FloTech™ Part #	Civacon Part #	Scully Part #	Description
FT2801	---	08251, 09640	Checkmate system, 1 compartment system, overfill only, 7" probes
FT2802	---	08352, 09641	Checkmate system, 2 compartment system, overfill only, 7" probes
FT2803	---	08352,09642	Checkmate system, 3 compartment system, overfill 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 & retain, 7" probes
FT2812	---	08362	Checkmate system, 2 compartment system, overfill & retain, 7" probes
FT2813	---	03363	Checkmate system, 3 compartment system, overfill & retain, 7" probes
FT2814	---	08364	Checkmate system, 4 compartment system, overfill & retain, 7" probes
FT2815	---	08365	Checkmate system, 5 compartment system, overfill & retain, 7" probes
FT2816	---	08366	Checkmate system, 6 compartment system, overfill & retain, 7" probes
FT2817	---	08382	Checkmate system, 7 compartment system, overfill & retain, 7" probes
FT2818	---	08383	Checkmate system, 8 compartment system, overfill & retain, 7" probes

Fuel Tanker Overfill Detection

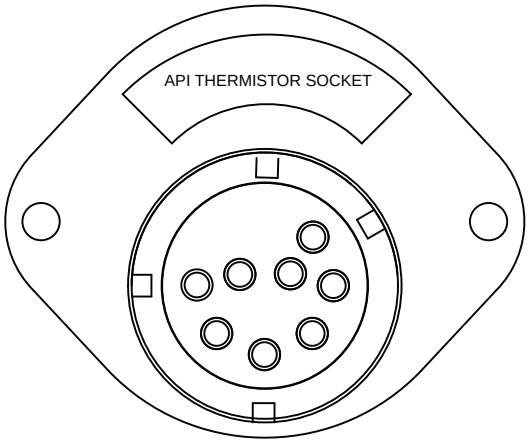
Socket Profiles



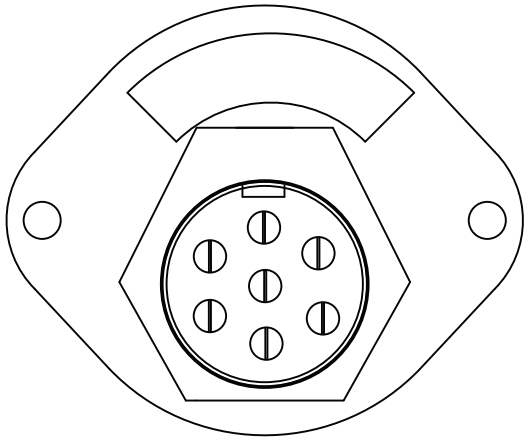
FT303 Optic socket (US)
FT313 Replacement faceplate
FT307 Optic socket (Eastern Canada)
FT317 Replacement faceplate



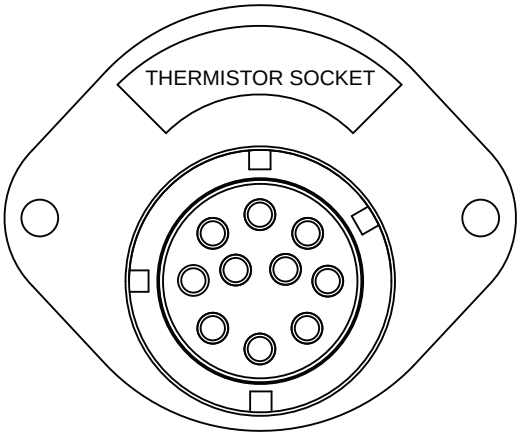
FT300 API optic socket (US)
FT310 Replacement faceplate



FT301 API Thermistor socket (US)
FT311 Replacement faceplate assembly



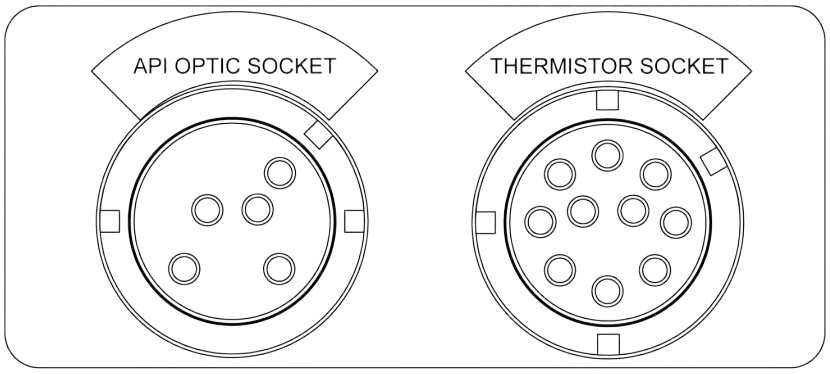
FT302 Float J560 socket (US)
FT312 Replacement faceplate float J560 socket
FT305 Thermistor J560 socket (US)
FT315 Replacement faceplate Thermistor J560 socket



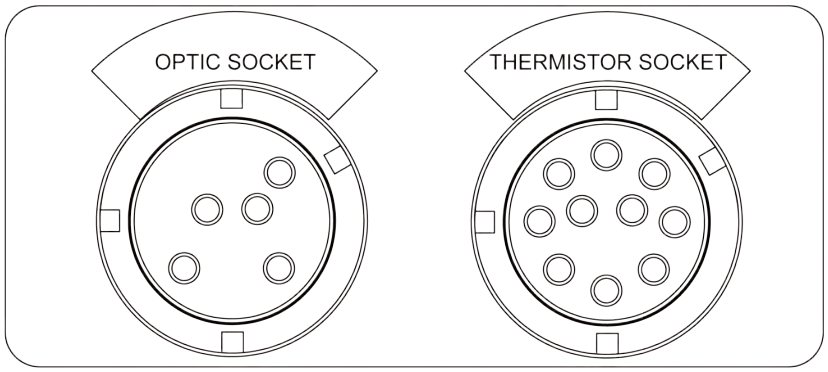
FT304 Thermistor socket (Canada)
FT314 Replacement faceplate

Fuel Tanker Overfill Detection

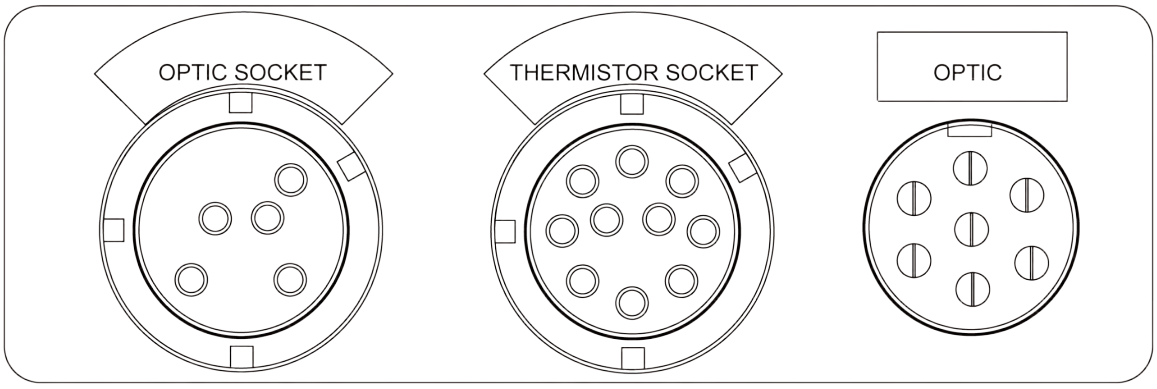
Socket Profiles



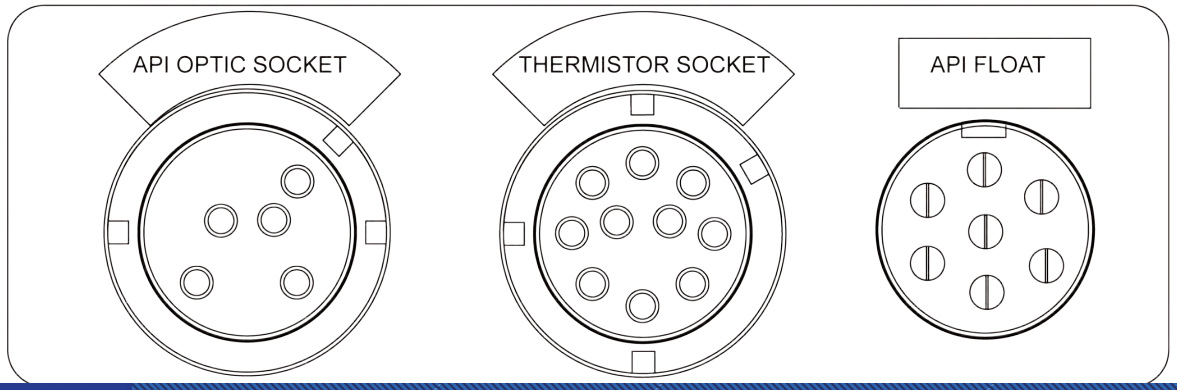
FT390 Dual socket (US)



FT391 Dual socket (Canada)



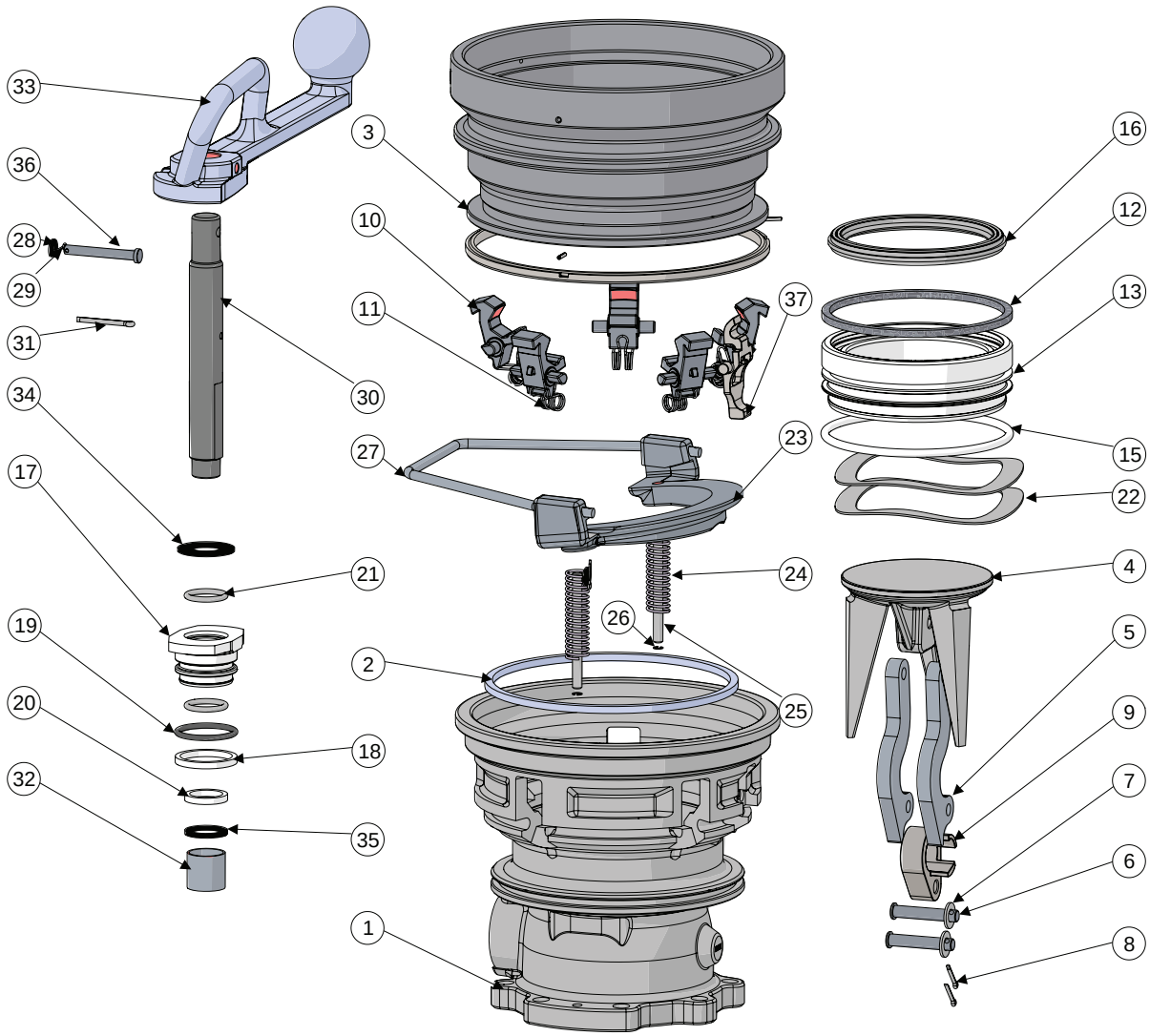
FT395 Triple socket (Canada)



Fuel Tanker Loading and Unloading

5300/5400 Series API Couplers

API Bottom Rack Loading Fittings



Fuel Tanker Loading and Unloading

Bill of Materials

Item #	Description	Part #	Qty of Components per Unit							
			5300	5300B	5300BC	5300BCL	5300G	5400	5400B	**5400G**
1	body	---	1	1	1	1	1	1	1	1
2	body dust ring	***112173***	1	1	1	1	1	1	1	1
3	sleeve assembly	***400684***	1	1	1	1	1	1	1	1
4A	poppet	Use kit ***5354K19***	1	1	1	1	1	1	1	1
4B	poppet for crude oil	Use kit ***5354K20***	N/A	N/A	1	1	N/A	N/A	N/A	N/A
5	bent link	***112151***	2	2	2	2	2	2	2	2
6	link pin	***391141***	2	2	2	2	2	2	2	2
7	link washer	***112158***	2	2	2	2	2	2	2	2
8	304SS cotter pin	***110721***	2	2	2	2	2	2	2	2
9	drive link	***112148***	1	1	1	1	1	1	1	1
10	interlocking cam	***112147***	5	5	5	5	5	5	5	5
11	torsion spring	***112149***	5	5	6	6	5	5	5	5
12	nose piece dust ring	***112174***	1	1	1	1	1	1	1	1
13	nose piece	Use kit ***5354K7, 5354K8, 5354K9, 5354K10, 5354K11, 5354K12*** or ***5354K20***	N/A	N/A	N/A	N/A	N/A	1	1	1
14	PTFE U-Seal 350 (optional) [1]	***112164***	1	1	1	1	1	1	1	1
15A	O-ring 2-350, Buna	Use kit ***5354K7, 5354K8, 5354K13*** or ***5354K14***	1	N/A	N/A	N/A	N/A	1	N/A	N/A
15B	O-ring 2-350, FKM B	Use kit ***5354K9, 5354K10, 5354K15, 5354K16*** or ***5354K20***	N/A	1	1	1	N/A	N/A	1	N/A
15C	O-ring 2-350, FKM GFLT	Use kit ***5354K11, 5354K12, 5354K17*** or ***5354K18***	N/A	N/A	N/A	N/A	1	N/A	N/A	1
16A	replaceable nose seal, Buna	Use kit ***5354K13*** or ***5354K14***	N/A	N/A	N/A	N/A	N/A	1	N/A	N/A
16B	replaceable nose seal, FKM B	Use kit ***5354K15*** or ***5354K16***	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A
16C	replaceable nose seal, FKM GFLT	Use kit ***5354K17*** or ***5354K18***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1
16D	bonded nose seal, Buna	Use kit ***5354K7*** or ***5354K8***	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16E	bonded nose seal, FKM B	Use kit ***5354K9*** or ***5354K10***	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
16 F	bonded nose seal, FKM GFLT	Use kit ***5354K11*** or ***5354K12***	N/A	N/A	N/A	N/A	1	N/A	N/A	N/A
16G	bonded nose seal for crude oil	Use kit ***5354K20***	N/A	N/A	1	1	N/A	N/A	N/A	N/A
17A	bearing	***341790***	1	1	N/A	N/A	1	1	1	1
17B	bearing for crude oil	***400696***	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A
17C	bearing for crude oil w/lock handle	***400696***	N/A	N/A	NA	1	N/A	N/A	N/A	N/A
18	PTFE U-Seal 220 (optional) [1]	***112163***	1	1	1	1	1	1	1	1
19A	O-ring 2-220, Buna	Use kit ***5354K1, 5354K2*** or ***5354K20***	1	N/A	N/A	N/A	N/A	1	N/A	N/A
19B	O-ring 2-220, FKM B	Use kit ***5354K3, 5354K4*** or ***5354K20***	N/A	1	1	1	N/A	N/A	1	N/A
19C	O-ring 2-220, FKM GFLT	Use kit ***5354K5*** or ***5354K6***	N/A	N/A	N/A	N/A	1	N/A	N/A	1
20	PTFE U-Seal 212 (optional) [1]	***112162***	1	1	1	1	1	1	1	1
21A	O-ring 2-212, Buna	Use kit ***5354K1*** or ***5354K2***	2	N/A	N/A	N/A	N/A	2	N/A	N/A
21B	O-ring 2-212, FKM B	Use kit ***5354K3, 5354K4,*** or ***5354K20***	N/A	2	2	2	N/A	N/A	2	N/A
21C	O-ring 2-212, FKM GFLT	Use kit ***5354K5*** or ***5354K6***	N/A	N/A	N/A	N/A	2	N/A	N/A	2
22A	wave spring washer	***112172***	2	2	N/A	N/A	2	2	2	2
22B	wave washer for crude oil	***112282***	N/A	N/A	1	1	N/A	N/A	N/A	N/A
23	bail	***341788***	1	1	1	1	1	1	1	1
24	bail spring	***112150***	2	2	2	2	2	2	2	2
25	bail pin	***112175***	2	2	2	2	2	2	2	2
26	internal retaining ring	***112176***	2	2	2	2	2	2	2	2
27	release	***391139***	1	1	1	1	1	1	1	1
28	washer	***111562***	3	3	3	3	3	3	3	3
29	cotter pin	***111563***	3	3	3	3	3	3	3	3
30	shaft	***391140***	1	1	1	1	1	1	1	1
31	shaft cotter pin	***112307***	1	1	1	1	1	1	1	1
32	spacer	***391142***	1	1	1	1	1	1	1	1
33A	handle (aluminum)	***341789***	1	1	-	-	1	1	1	1
33B	handle (stainless steel)	***112392***	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A
33C	handle (stainless steel)	***400713***	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A
34	shaft outside washer	***112160***	1	1	1	1	1	1	1	1
35	shaft inside washer	***112159***	1	1	1	1	1	1	1	1
36	clevis pin	***112500***	1	1	1	1	1	1	1	1
37	latch	***112240***	1	1	1	1	1	1	1	1

[1] Items 14, 18 and 20 are optional PTFE U seals. When the U seals are added to the coupler they isolate the main rubber seals from the liquid being conveyed, thereby increasing the longevity of the rubber seals.

N/A = "Not Applicable"

Fuel Tanker Loading and Unloading

5300/5400 Series API Couplers

API Bottom Rack Loading Fittings

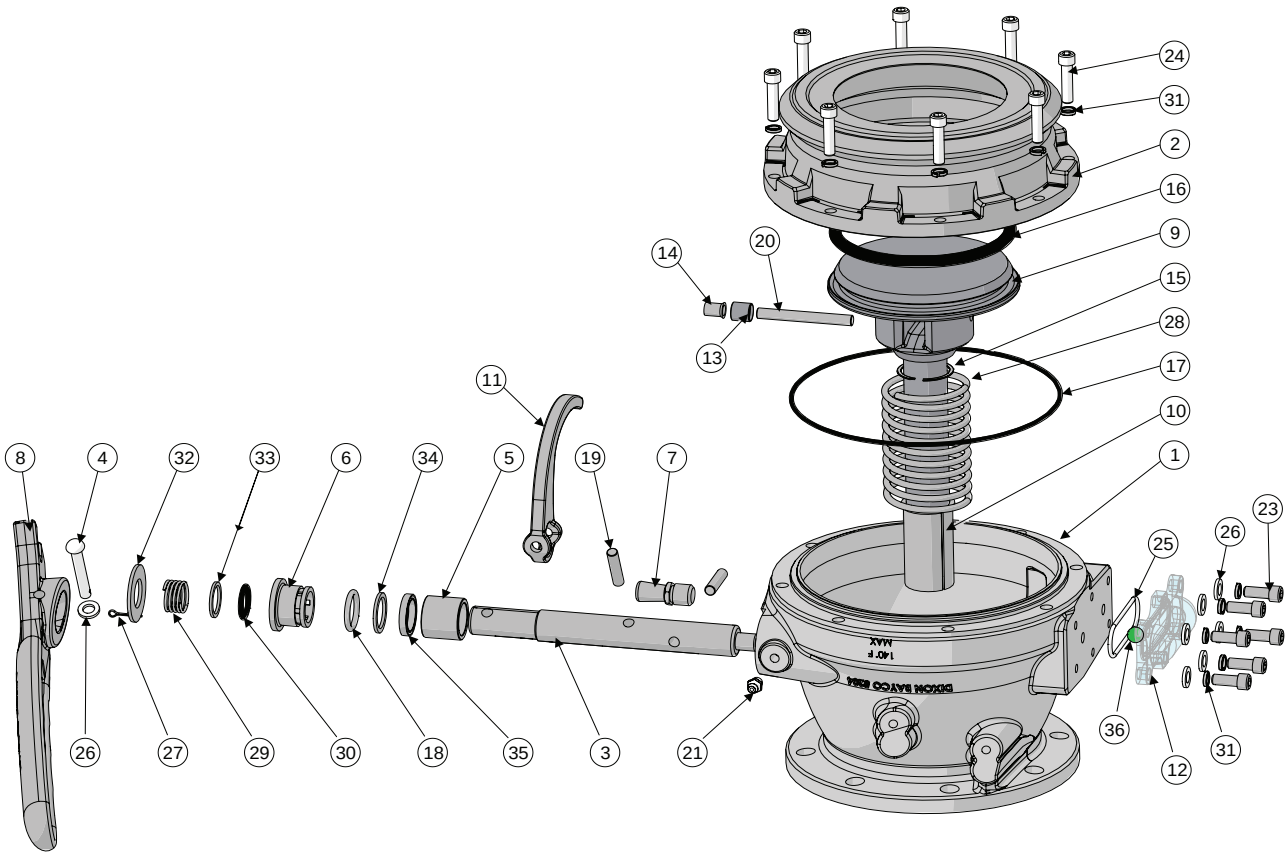
Repair Kits

Part #	Description	Include items #
5354K1	Buna shaft seal kit: for 5300 and 5400	19A, 21A, 31, 34, 35
5354K2	Buna shaft seal kit with optional PTFE U seals: for 5300 and 5400	18[1], 19A, 20[1], 21A, 34, 35
5354K3	FKM-B shaft seal kit: for 5300B and 5400B	19B, 21B, 31, 34, 35
5354K4	FKM-B shaft seal kit with optional PTFE U seals: for 5300B and 5400B	18[1], 19B, 20[1], 21B, 31, 34, 35
5354K5	FKM GFLT shaft seal kit: for 5300G and 5400G	19C, 21C, 31, 34, 35
5354K6	FKM GFLT shaft seal kit with optional PTFE U seals: for 5300G and 5400G	18[1], 19C, 20[1], 21C, 34, 35
5354K7	Buna bonded nose seal kit: for 5300	12, 13, 15A, 16D
5354K8	Buna bonded nose seal kit with optional PTFE U seal: for 5300	12, 13, 14[1], 15A, 16D
5354K9	FKM-B bonded nose seal kit: for 5300B	12, 13, 15B, 16E, 31
5354K10	FKM-B bonded nose seal kit with optional PTFE U seal: for 5300B	12, 13, 14[1], 15B, 16E
5354K11	FKM GFLT bonded nose seal kit: for 5300G	12, 13, 15C, 16F, 31
5354K12	FKM GFLT bonded nose seal kit with optional PTFE U seal: for 5300G	12, 13, 14[1], 15C, 16F
5354K13	Buna replaceable nose seal kit: for 5400	12, 15A, 16A
5354K14	Buna replaceable nose seal kit with optional PTFE U seal: for 5400	12, 14[1], 15A, 16A
5354K15	FKM-B replaceable nose seal kit: for 5400B	12, 15B, 16B, 31
5354K16	FKM-B replaceable nose seal kit with optional PTFE U seal: for 5400B	12, 14[1], 15B, 16B, 31
5354K17	FKM GFLT replaceable nose seal kit: for 5400G	12, 15C, 16C
5354K18	FKM GFLT replaceable nose seal kit with optional PTFE U seal: for 5400G	12, 14[1], 15C, 16C
5354K19	Valve assembly repair kit: for 5300, 5300B, 5300G, 5400, 5400B, 5400G	4, 5, 6, 7, 8, 9, 31, 34, 35
5354K20	crude conversion kit	4B, 16G, 17C, 22B, 31
5354K21	locking handle kit	17C, 21B, 28, 29, 31, 33C, 34, 36
5354K22	conversion kit for crude 5300, 5400 - GFLT seals	22B, 16F, 15C, 12, 17A, 21C, 19C, 31
5354K23	poppet assembly replacement kit 5300, 5300BC, 5300BCL	4A, 5, 6, 7, 8, 9, 31, 34, 35
5354K25	aluminum handle kit replacement	28, 29, 33A, 34, 36
5354K26	stainless steel handle kit replacement	28, 29, 33B, 34, 36
5354K27	super pack API coupler repair kit	5354K1, 5354K9, 28, 29, 31, 36

[1] Items 14, 18 and 20 are optional PTFE U seals. When the U seals are added to the coupler they isolate the main rubber seals from the liquid being conveyed, thereby increasing the longevity of the rubber seals.

Fuel Tanker Loading and Unloading

5204 Series, API Bottom Load Valves



Repair Kits

Part #	Description	Include items #
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, 37
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

See 5204 Series Bill of Materials on the following page.

Fuel Tanker Loading and Unloading

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	N/A	N/A
4	handle pin	***111559***	1	1	1	1	1	N/A	N/A	N/A	N/A
5	shaft spacer	***390813***	1	1	1	1	1	1	1	N/A	N/A
6	shaft bearing	***111557***	1	1	1	1	1	1	1	N/A	N/A
7	stop pin	***5204-SP***	1	1	1	1	1	1	1	N/A	N/A
8A	fixed handle	use kit ***5204K7***	1	1	1	1	1	N/A	N/A	N/A	N/A
8B	removeable handle	use kit ***5204K5***	N/A	N/A	N/A	N/A	N/A	1	1	N/A	N/A
9A	poppet (load/unload versions)	***341755***	1	1	1	1	1	1	1	N/A	N/A
9B	poppet (load only versions)	***341756***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A
12	sight glass	use kit ***5204K8***	1	N/A	N/A	N/A	N/A	1	N/A	1	N/A
13	poppet roller	***390815***	1	1	1	1	1	1	1	N/A	N/A
14	poppet roller bearing	***111556***	1	1	1	1	1	1	1	N/A	N/A
15	retaining ring	***111560***	1	1	1	1	1	1	1	1	1
16A	Baylast™ poppet O-ring	***5204K1***	1	1	N/A	1	N/A	1	1	1	1
16B	FKM poppet O-ring	***5204KV1***	N/A	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A
16C	PTFE encapsulated poppet O-ring	use kit ***5204K6***	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
17A	nose ring O-ring	***111554***	1	1	N/A	1	1	1	1	1	1
17B	PTFE nose O-ring	use kit ***5204K6***	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
18A	shaft O-ring	***111552***	1	1	N/A	1	1	1	1	N/A	N/A
18B	PTFE shaft O-ring	use kit ***5204K6***	N/A	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A
19	shaft and cam roll pin	***6000-12***	2	2	2	2	2	2	2	N/A	N/A
20	pin roller	***111566***	1	1	1	1	1	1	1	N/A	N/A
21	grease fitting	***111561***	1	1	1	1	1	1	1	N/A	N/A
23	sight glass screw	use kit ***5204K12***	6	N/A	N/A	N/A	N/A	6	N/A	6	N/A
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	N/A	N/A	N/A	N/A	1	N/A	1	N/A
25B	PTFE sight glass O-ring	use kit ***5204K6***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26	washer	***111562***	1	1	1	1	1	6	N/A	6	N/A
27	cotter pin	***111563***	1	1	1	1	1	N/A	N/A	N/A	N/A
28A	main spring-steel	***111564***	1	1	N/A	N/A	1	1	1	1	1
28B	main spring- stainless steel	***111542***	N/A	N/A	1	1	N/A	N/A	N/A	N/A	N/A
29	handle spring	***111565***	1	1	1	1	1	1	1	N/A	N/A
30	dust seal O-ring	***111553***	1	1	1	1	1	1	1	N/A	N/A
31	lock washer ¼"	***111569***	14	8	8	8	8	14	8	14	8
32	handle shaft spring washer	***111573***	1	1	1	1	1	1	1	N/A	N/A
33	handle shaft washer	***111574***	1	1	1	1	1	1	1	N/A	N/A
34	back-up ring	***111579***	1	1	1	1	1	1	1	N/A	N/A
35	u-cup seal	***111580***	1	1	1	1	1	1	1	N/A	N/A
36	flow indicator	use kit ***5204K8***	1	N/A	N/A	N/A	N/A	1	N/A	N/A	N/A
38 [1]	retaining ring	use kit ***5204K13***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
39 [1]	SFI sight glass	use kit ***5204K13***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40 [1]	SFI sight glass O-ring (Baylast™)	use kit ***5204K13***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

[1] Not illustrated, parts for 5204-SFI

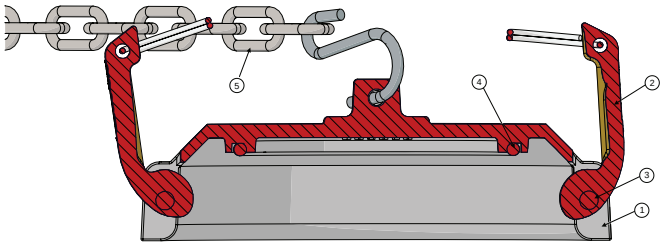
N/A = Not Applicable

Fuel Tanker Loading and Unloading

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



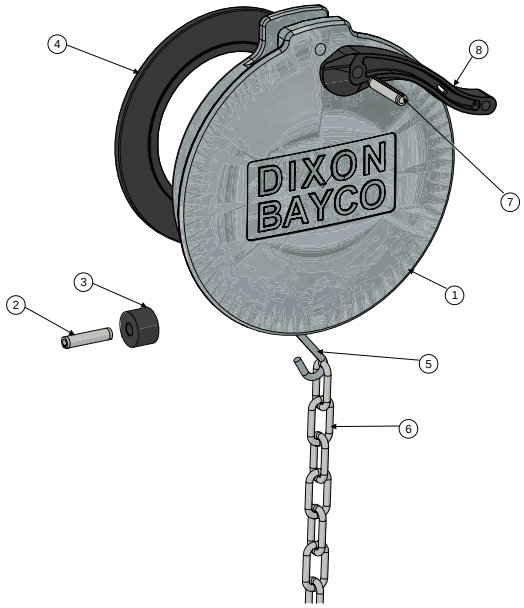
Repair Kits

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	***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

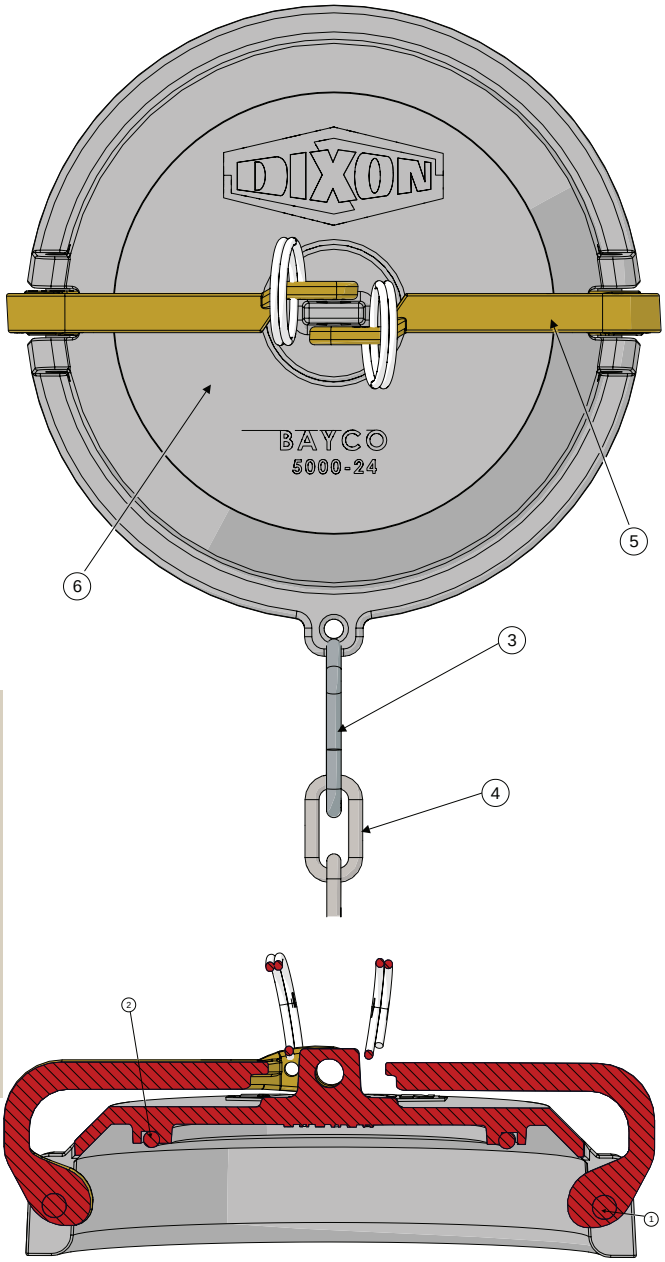


Repair Kits

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

Fuel Tanker Loading and Unloading

5000-24L Lockable API Caps



Bill of Materials

Item #	Description	Part #	Qty
1	pin	***325-P***	2
2	Buna-N 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

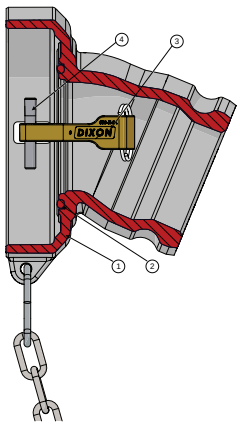
Part #	Description	Item #
5000-24LRK	arm and seal repair kit	1, 2, 5

Fuel Delivery

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



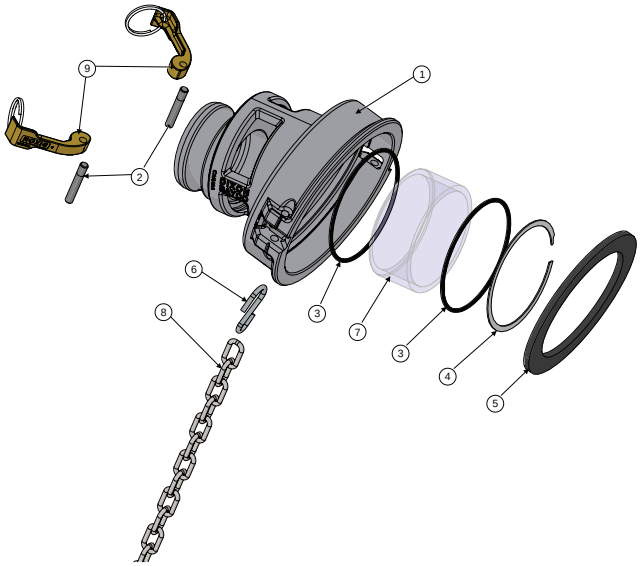
Repair Kits

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



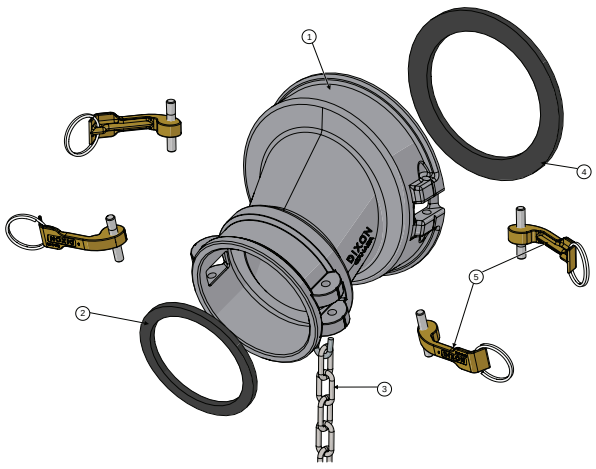
Repair Kits

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

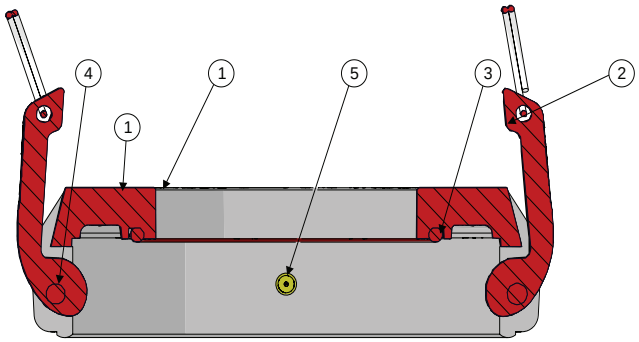
Item #	Description	Part #	Qty
1	body	**---**	1
2	4" Buna fuel gasket	***400-G-BF***	1
3	18" chain with S hook	***5205-RK4***	1
4	Baylast™ main gasket	***4540SG-RK2***	1
5	brass cam arm, pin and finger ring (kit)	***300-HRP-BR***	4



Fuel Delivery

4500 Drop Adapter Mounting Ring for 2 Piece Gravity Drop Adapters

4500, 4502 and 4504 Main Body Inlet



Bill of Materials

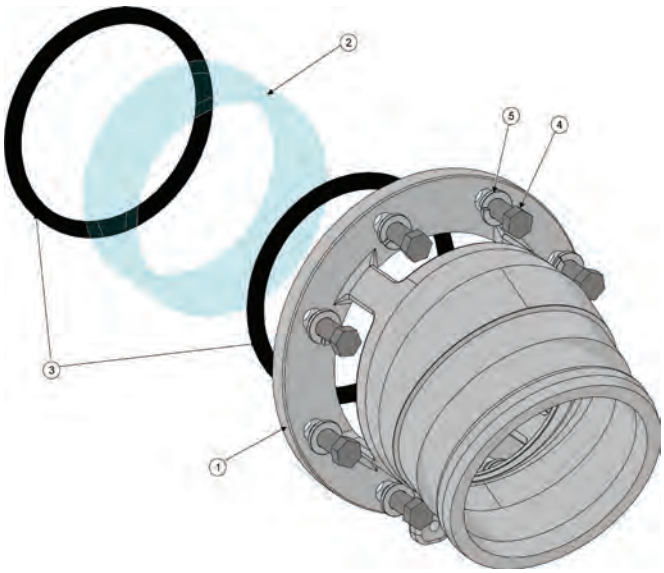
Item #	Description	Part #	Qty
1	body	**---**	1
2	cam arm and ring	***300-HRP-BR***	2
3A	Baylast™ O-ring (standard)	***4500-5***	1
3B	FKM O-ring (optional)	***4500-7***	1
4	cam arm pin	***300-HRP-BR***	2
5	rivet	***390564***	1

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

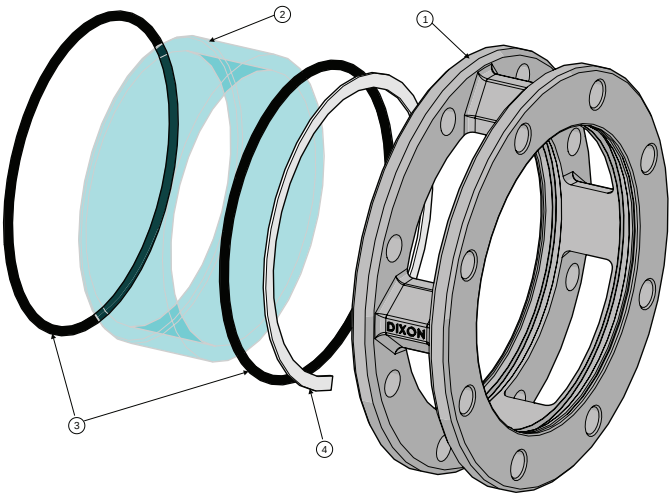
Part #	Description	Item #
4400SGK	sight glass and Baylast™ gaskets for 4501 and 4504	2, 3A
4400SGK-V	sight glass and FKM gaskets for 4501 and 4504	2, 3B
4502SGK	sight glass and Baylast™ gaskets for 4502 and 4503	2, 3A
4502SGK-V	sight glass and FKM gaskets for 4502 and 4503	2, 3B

Fuel Delivery

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***

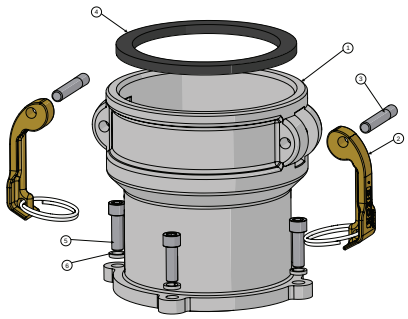


Repair Kits

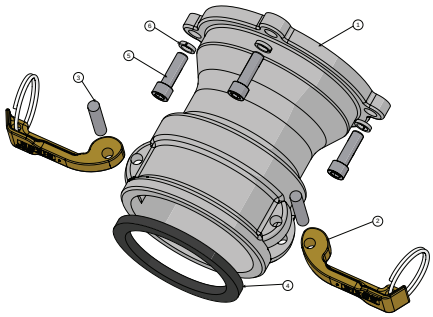
Part #	Description	Includes Item #
5200-SFI-3-RK1	sight glass for 5200-SFI-3	2c, 3a, 4a
5200-SFI-RK1	sight glass for 5200-SFI	2d, 3c, 4c
5200-SFIV-RK1	sight glass for 5200-SFIV	2d, 3d, 4c
5200-SFI-3V-RK1	sight glass for 5200-SFI-3V	2c, 3b, 4a
5201-SFI-3-RK1	sight glass for 5201-SFI-3	2b, 3a, 4a
5201-SFI-RK1	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



6000-14



6000-15

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

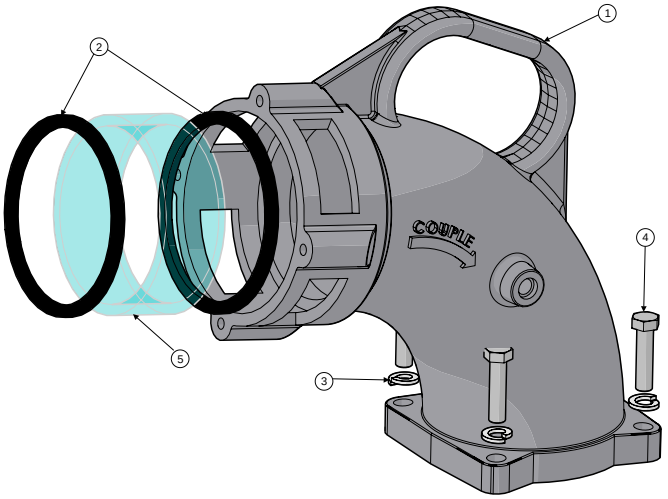
Repair Kit

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

Fuel Delivery

Top "D" Handle Elbows

Fits 6000 Elbow Only



Bill of Materials

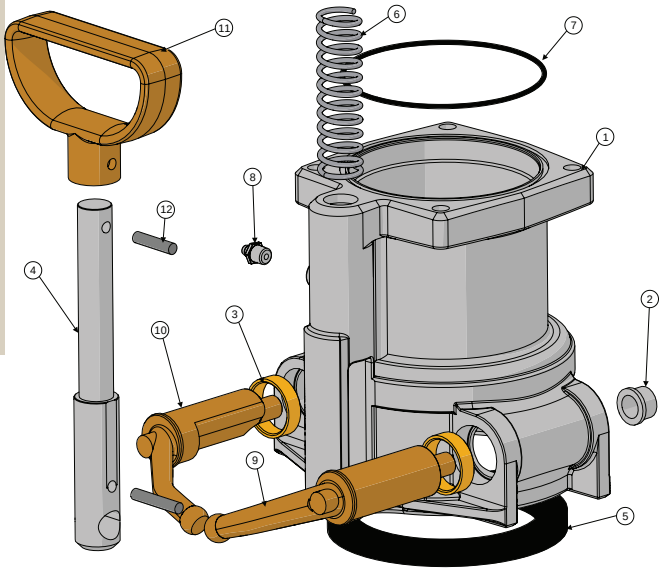
Item #	Description	Part #	Qty
1	body	***6200-1***	1
2A	Baylast™ gasket	***4433***	2
2B	FKM gasket (optional)	***4426***	2
3	lock washer	use kit ***6000EHK***	4
4	bolt	use kit ***6000EHK***	4
5	sight glass	use kit ***6200SGK***	1

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 & (2) large bushings	2, 3

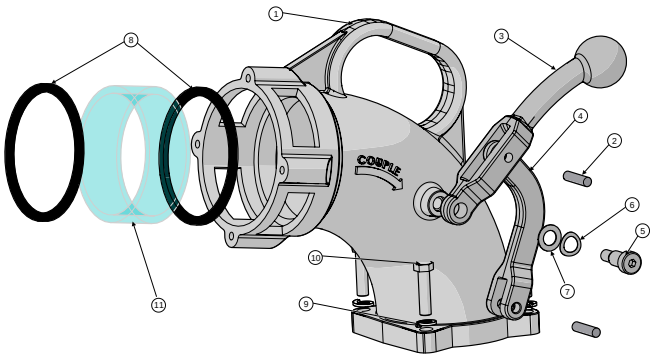
Fuel Delivery

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

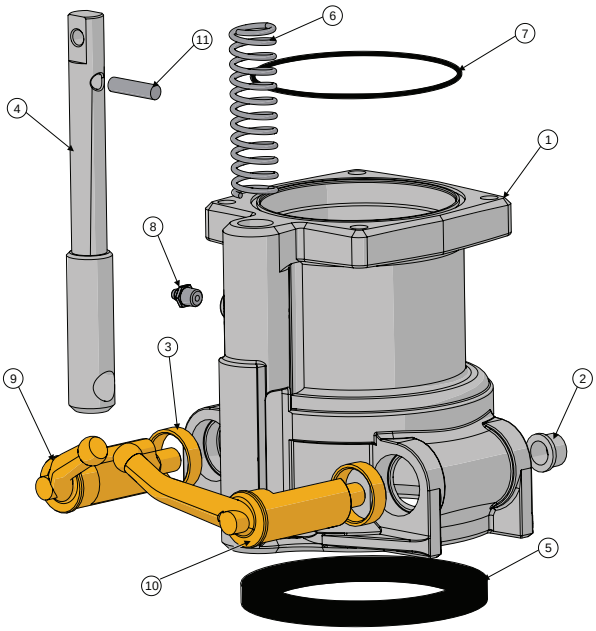
[1] items 5 through 7 are for newer version with shoulder bolt pivot only
[2] for older version with stud and nut pivot use items 12 through 15 instead

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



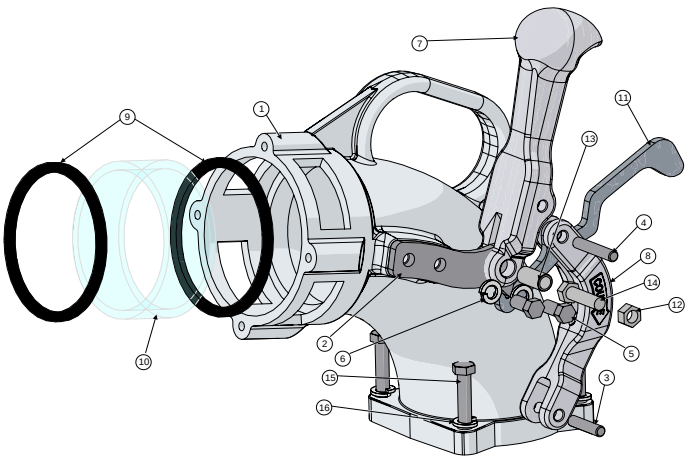
Repair Kits

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

Fuel Delivery

Top Side Lever Elbows

Fits 6500 Elbow Only



For bottom end replacement parts, please see below

Bill of Materials

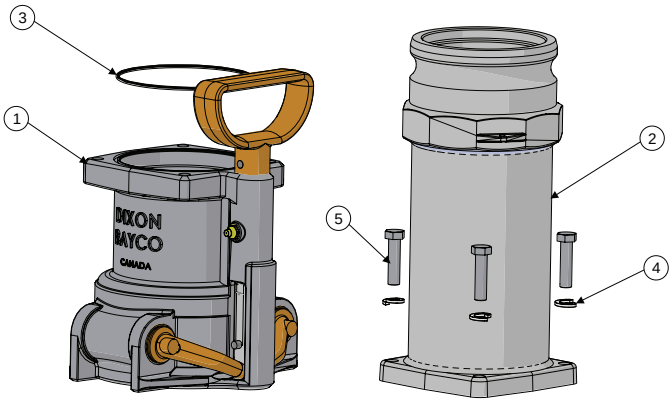
Item #	Description	Part #	Qty
1	body	***341709***	1
2	mounting plate	use kit ***6500AHK***	1
3	lower lever pin	***111728***	1
4	upper lever pin	***111727***	1
5	plate screw	***112242***	3
6	washer	***WASHER.375-SS***	3
7	handle	use kit ***6500-RK1***	1
8	linkage	use kit ***6500-RK1***	1
9A	Baylast™ gasket	***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

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

Fuel Delivery

6400 Series Co-axial Drop Elbow with 3" Male Vapor Outlet

6400 (4" male inlet), 6400F (4" female inlet), 6430 (3" male inlet), 6430F (3" female inlet)

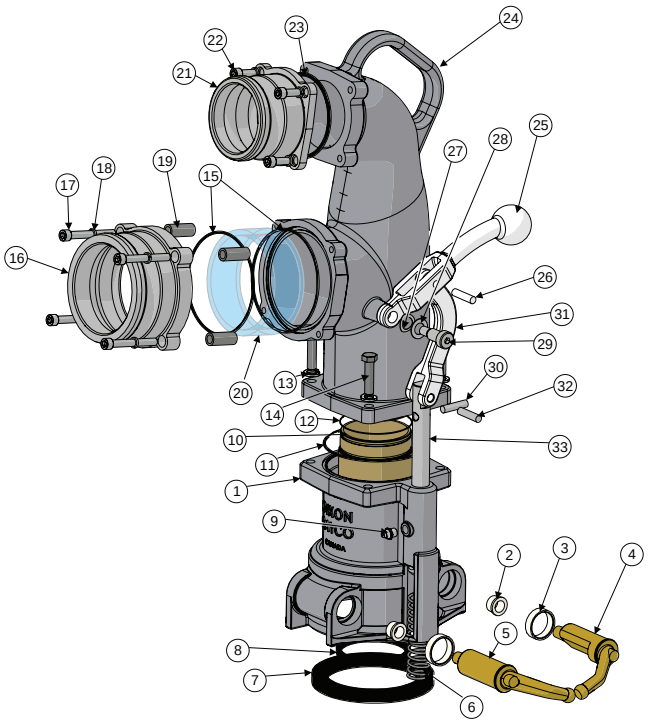
Bill of Materials

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 co-axial 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 & 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

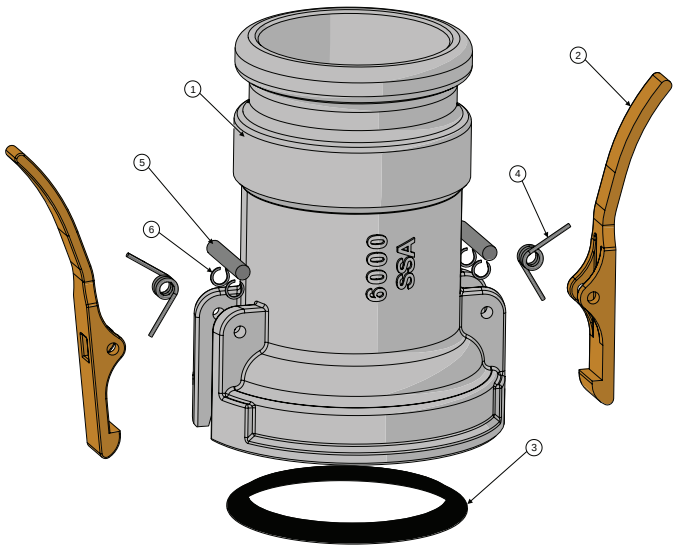


Repair Kits

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 & 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

Fuel Delivery

6000-SSA Series 4" Side Seal Adapters



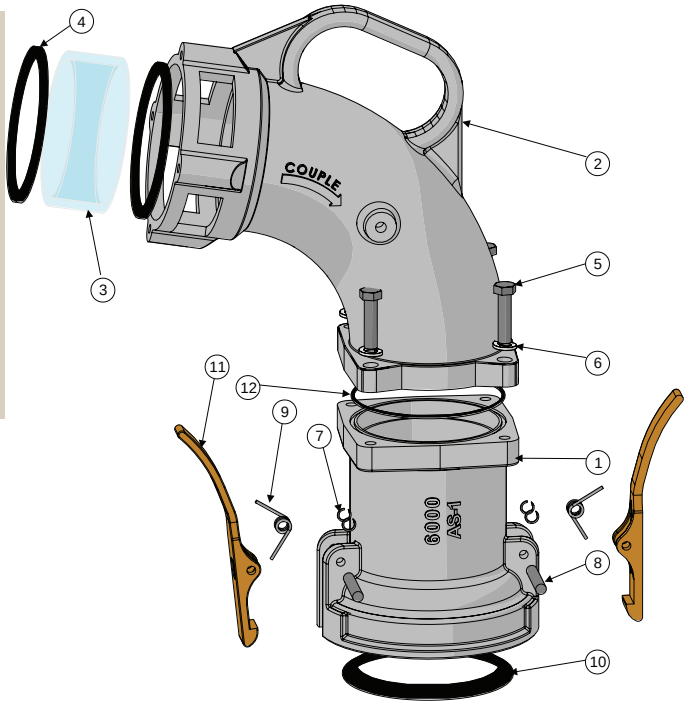
Bill of Materials

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

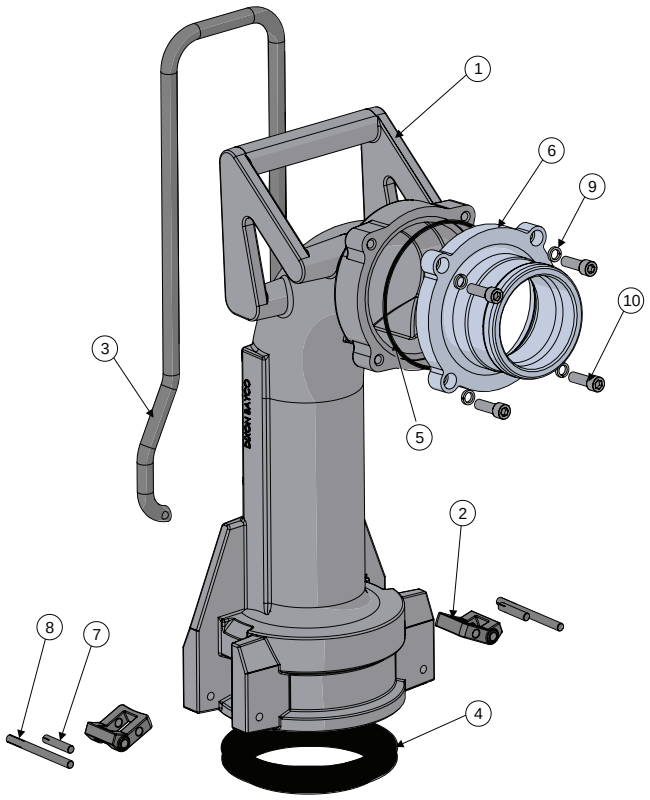
Part #	Description	Includes Item #
6000ASK	lip seal and body O-ring	10, 12
6030AS	complete replacement bottom unit	1, 7, 8, 9, 10, 11, 12
6200SGK	sight glass and Baylast™ seals	3, 4
6000EHK	lock washers and bolts	5, 6
6000SSHK	arms, springs, pins and reining rings	7, 8, 9, 11
6000ASR	arm lock ring	not illustrated

Fuel Delivery/Vapor Recovery

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

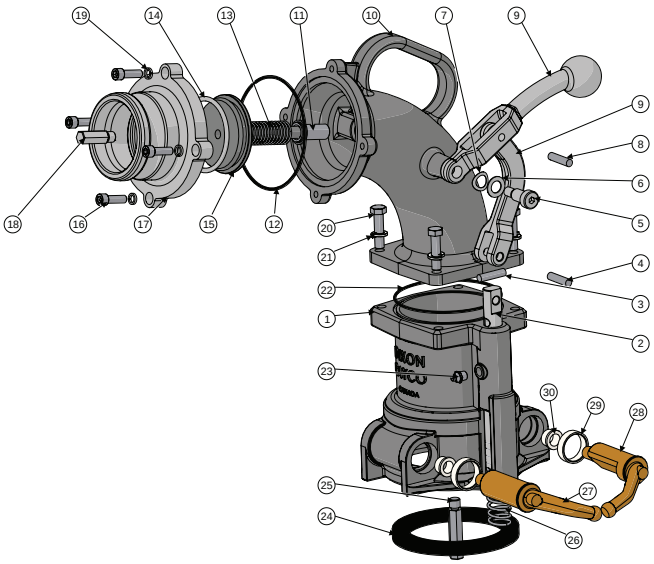


Repair Kits

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

Fuel Delivery/Vapor Recovery

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	***PIN5/16X 1 1/4P***	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 & 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

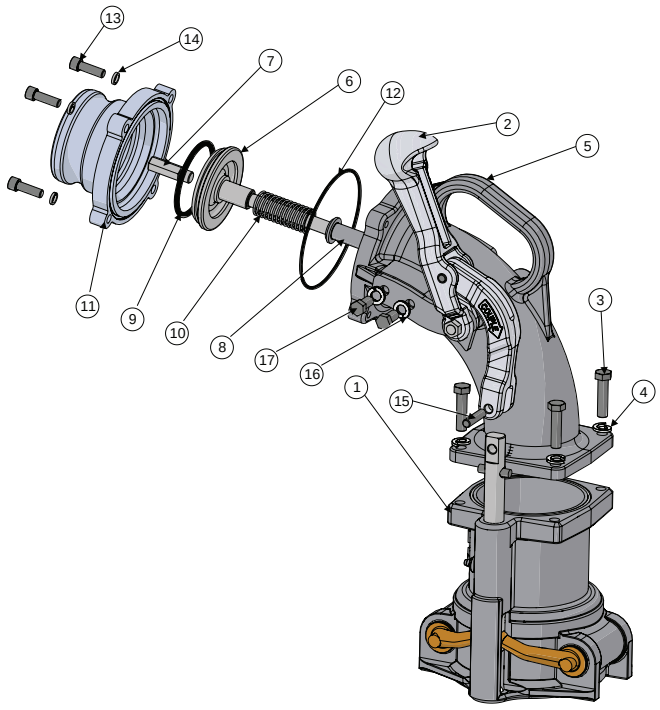
[1] items 5 through 7 are for newer version with shoulder bolt pivot only,
[2] for older version with stud and nut pivot use items 31 through 34 instead

Fuel Delivery/Vapor Recovery

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 & 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

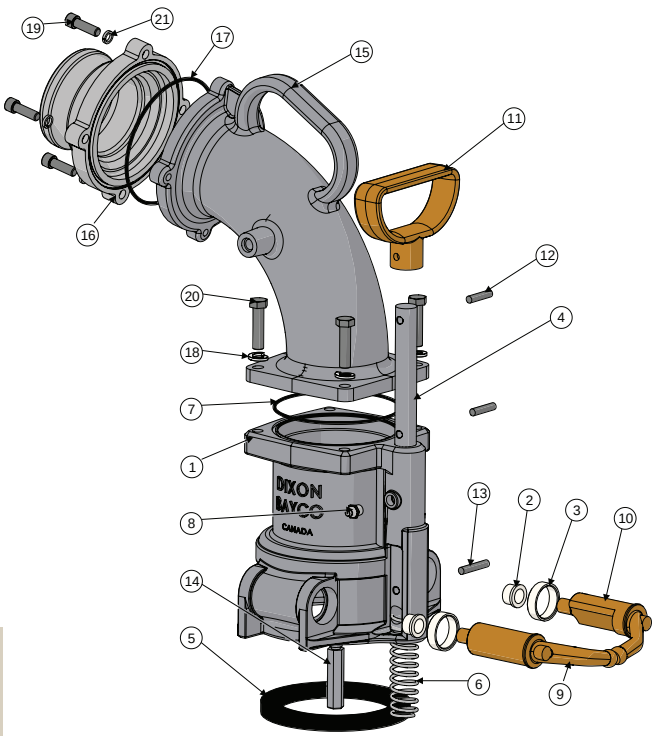


Repair Kits

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

Fuel Delivery/Vapor Recovery

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

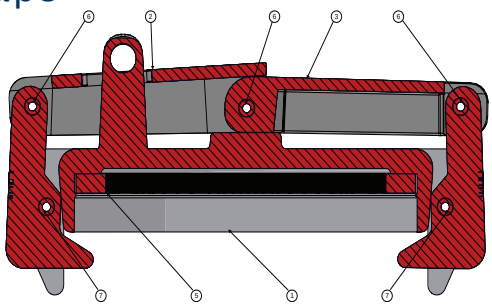
Part #	Description	Includes Item #
6200BK	small (2) and large (2) large bushing kit	2, 3
6000EHK	body lock washers and bolts	18, 20
6000NPHK	adapter kit includes (4) bolts and (4) lock washers	19, 21
400637	complete bottom unit	1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, 12, 13, 14

Fuel Delivery/Vapor Recovery

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

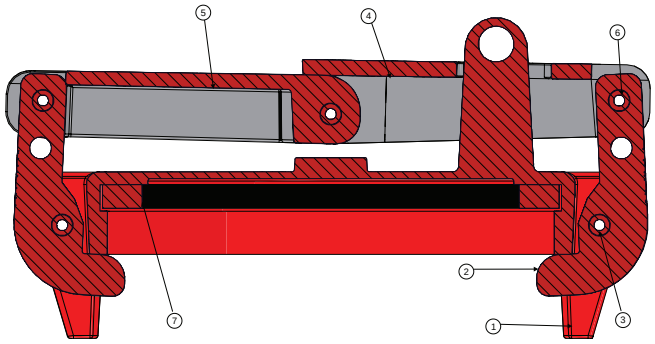


4" Vapor Caps

VR4050AL

Bill of Materials

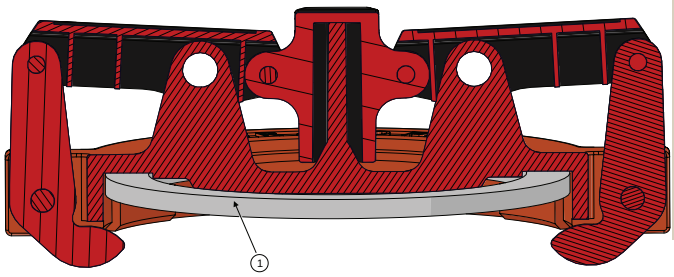
Item #	Description	Part #	Qty
1	cap body	***---***	1
2	cam arm	***VR4075***	2
3	arm pin	***4068***	2
4	top large lever	***VR4077***	1
5	minor lever	***VR4076***	1
6	lever pin	***4066***	3
7	Buna gasket	***400-G-BU***	1



VR4050PL Series 4" Nylon Vapor Caps

Bill of Materials

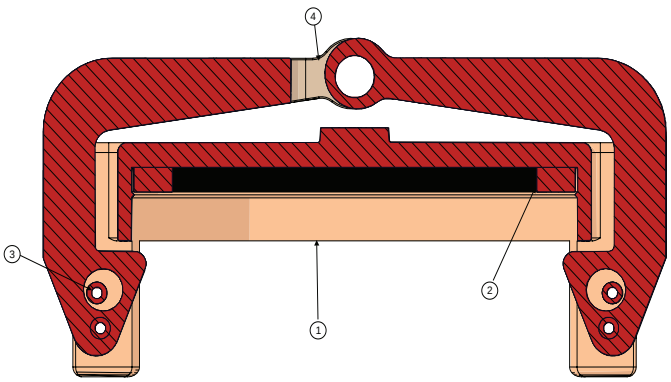
Item #	Description	Part #	Qty
1	gasket	***VR4050PLRK1***	1



TL4070BZ Series Bronze Caps

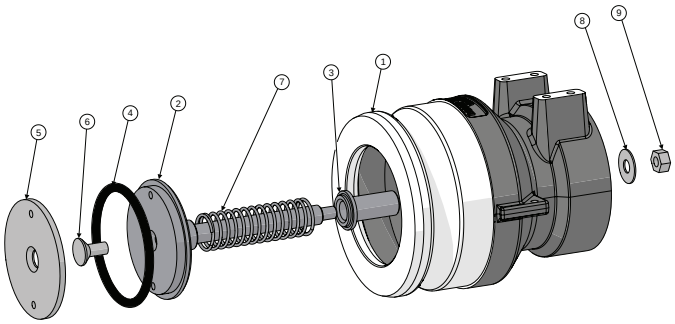
Bill of Materials

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



Fuel Delivery/Vapor Recovery

VR3100 Series 3" Vapor Hose Valves



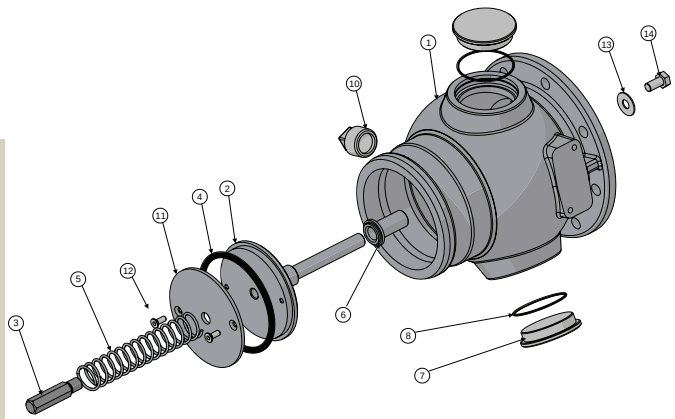
Bill of Materials

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

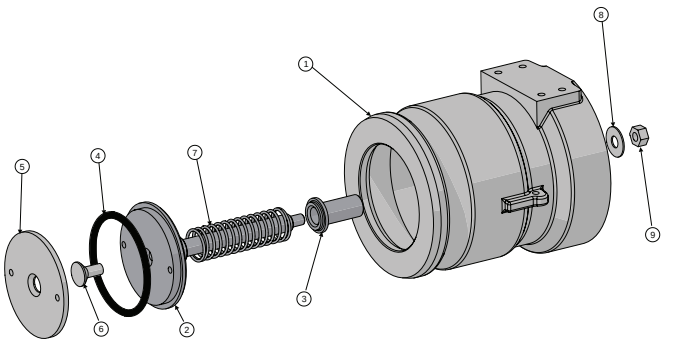
VR4000 Series 4" Vapor Hose Valves



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

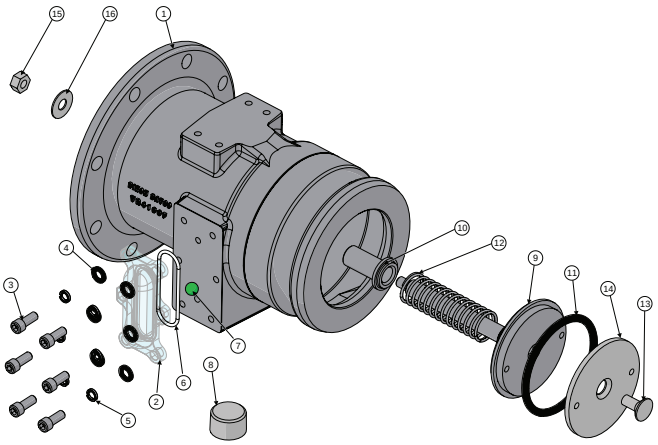
Part #	Description	Includes Item #
VR4100RK1	valve, bushing, O-ring, valve plate, screw, and spring	2, 3, 4, 5, 6, 7

Fuel Delivery/Vapor Recovery

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	¾" 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



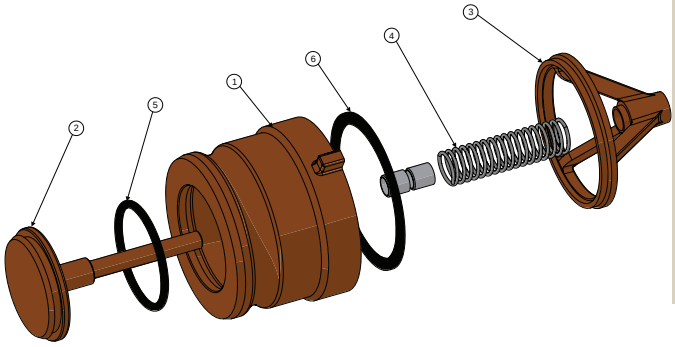
Repair Kits

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

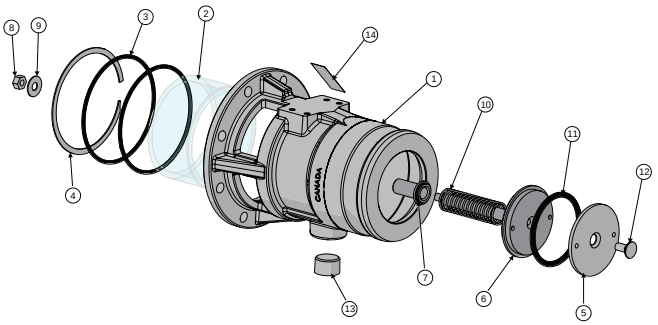
Item #	Description	Part #	Qty
1	body	**---**	1
2	valve	**340331**	1
3	valve spider	**340304**	1
4	spring	**110892**	1
5	FKM O-ring	**O-RING-AS-334**	1
6	body gasket	**G4000AS**	1



VR4100F-SFI Series Vapor Hose Couplers

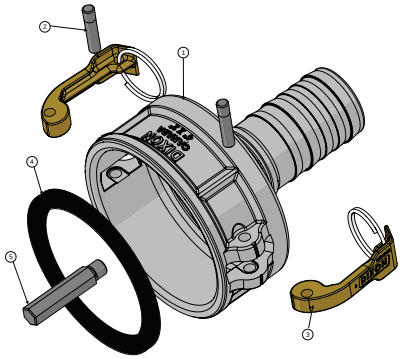
Bill of Materials

Item #	Description	Part #	Qty
1	body	**341832**	1
2	sight glass	**391855**	1
3	O-ring	**112180**	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



Fuel Delivery/Vapor Recovery

4020-CVR-AL Vapor Hose Couplers

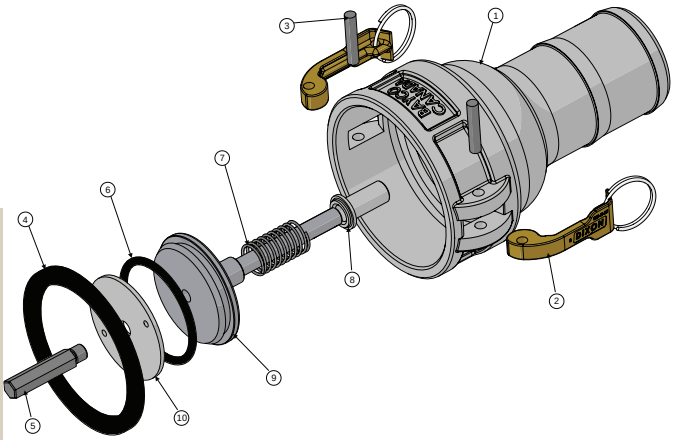


Bill of Materials

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	Buna 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

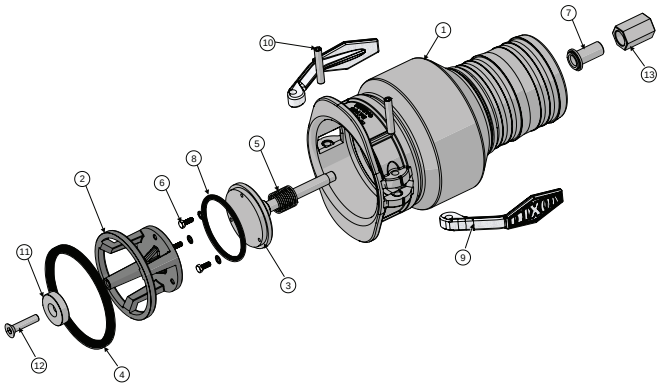
Part #	Description	Includes Item #
VAC4030RK	replacement cam arms, rings, pins, coupler gasket and valve O-ring	2, 3, 4, 6

Fuel Delivery/Vapor Recovery

VR4040CS-AL & 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	gasket Buna -N	***112262***	1	1
5	spring	***112263***	1	1
6	machine screw	***112264***	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	

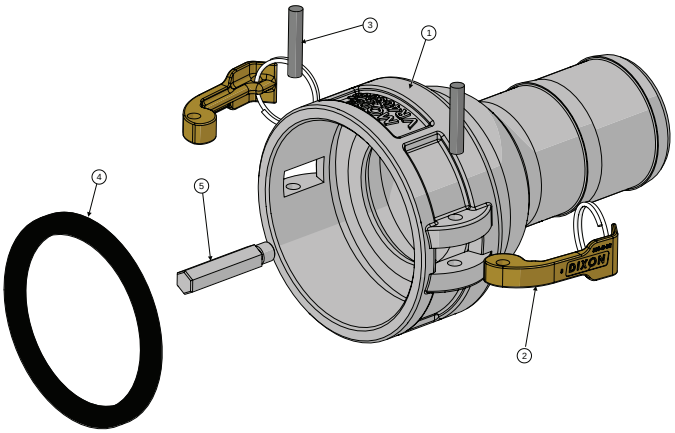
NEW

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Delivery/Vapor Recovery

VR4030CS-NP Vapor Hose Couplers

4" x 3" without poppet

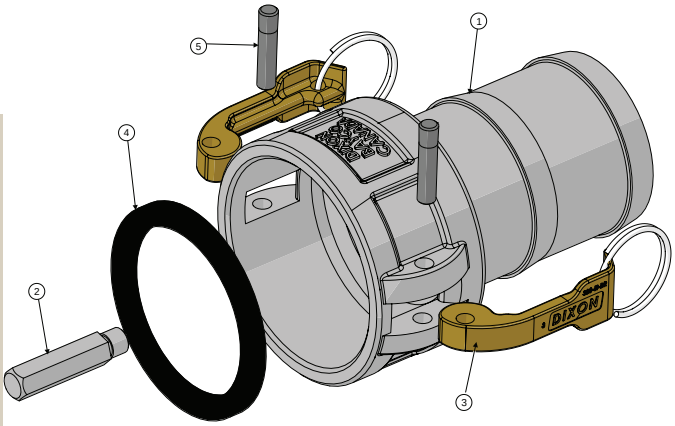


Bill of Materials

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	Buna 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	Buna coupler gasket	***300-G-BU***	1
5	cam arm pin	***300-HRP-BR***	2

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Delivery/Vapor Recovery

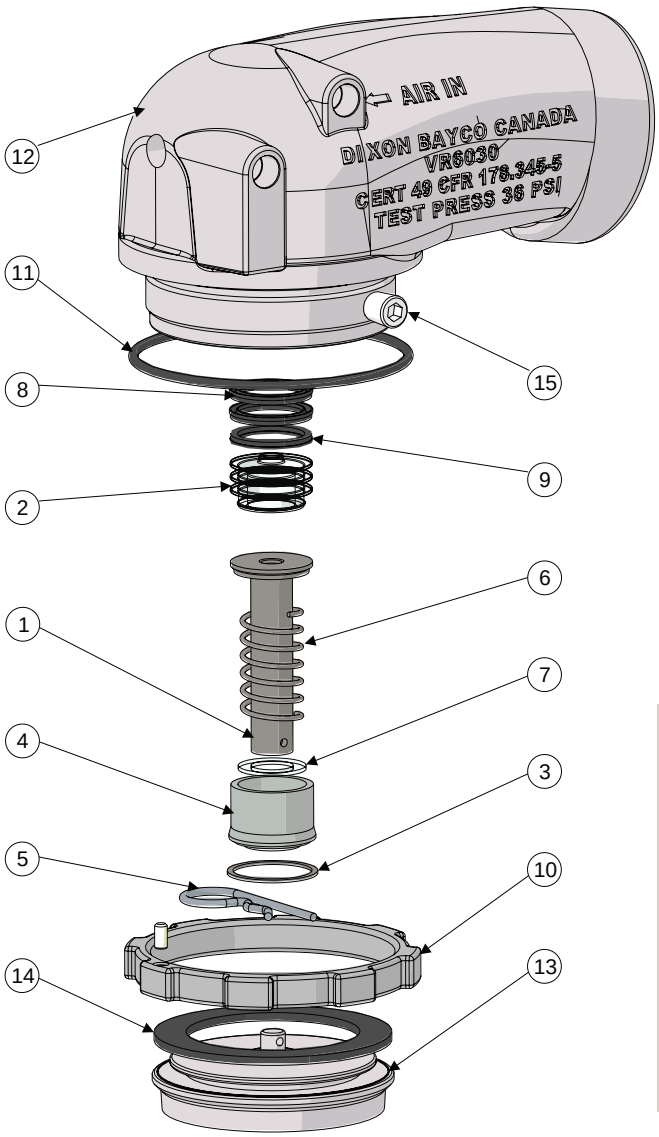
VR6030SQ Series Sequential Vapor Vents

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

VR6030 Repair Kits

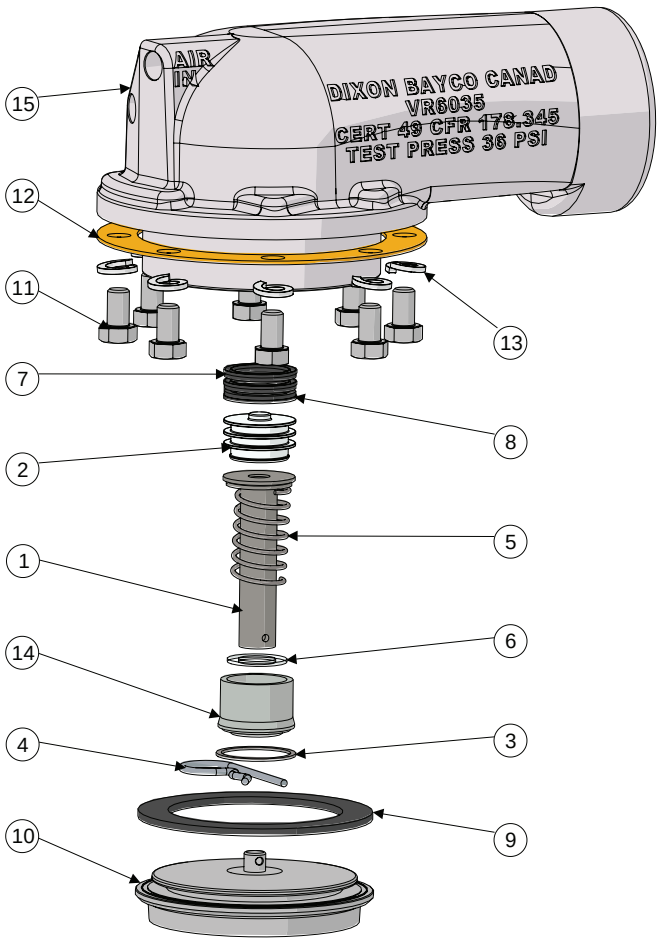
Part #	Description	Includes Item #
VR6030RK1	seal kit with Baylast™ poppet seal	2, 3, 5, 8, 9, 11, 14A
VR6030RKV1	seal kit with FKM poppet seal	2, 3, 5, 8, 9, 11, 14B
VR6030RK2	piston assembly	2, 8, 9
VR6030RK3	Baylast™ poppet gasket	14
VR6030RKV3	FKM poppet gasket	14



GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Delivery/Vapor Recovery

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	***VR6035RK3***	1
9B	FKM poppet gasket	***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

VR6035 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 & lock washers	11, 13

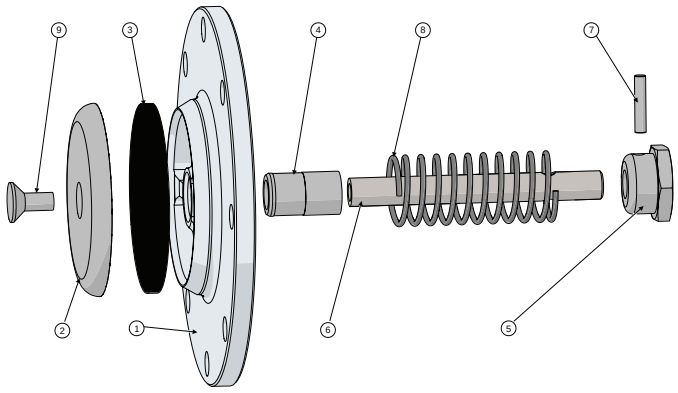
GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Delivery/Vapor Recovery

VRP3500 and VRP3600 Series Outbreathing Vents

Bill of Materials

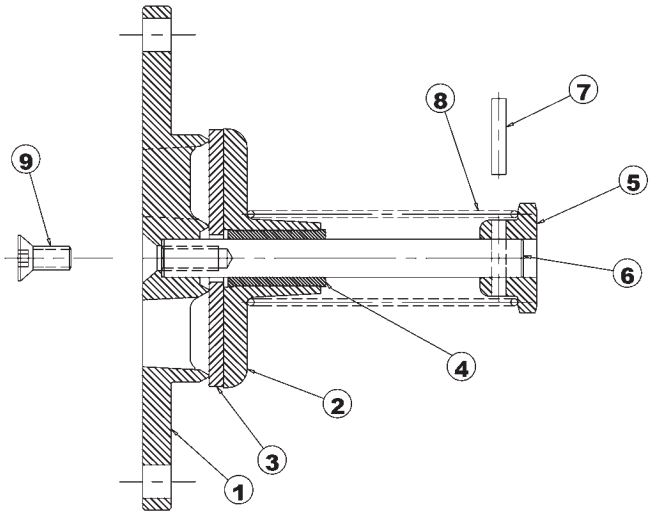
Item #	Description	Part #	Qty
1	body	***---***	1
2	gasket base	***VRP3500-2***	1
3	gasket	***VRV3501-3***	1
4	bushing	***VRP3500-4***	1
5	spring retainer	***VRV3501-5***	1
6A	shaft for VRP3500	***VRP3501-6***	1
6B	shaft for VRP3600	***390552***	1
7	shaft pin	***110717***	1
8	spring	***SPRG-L4506***	1
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



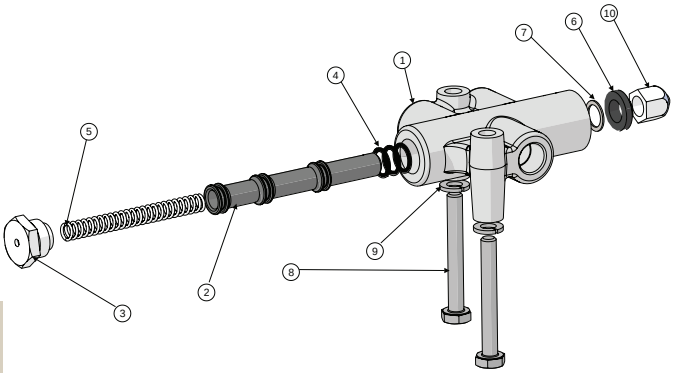
Fuel Tanker

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



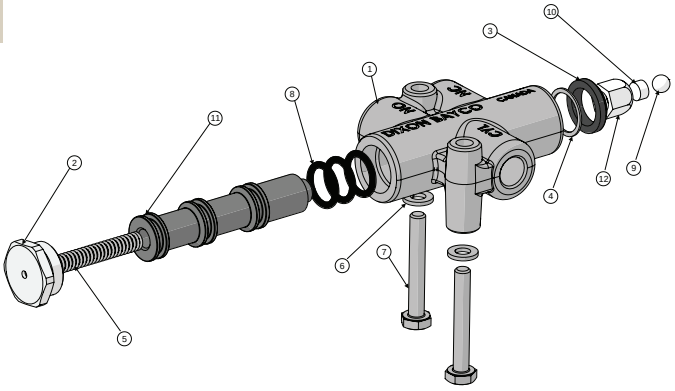
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	piston	use kit ***5000AIRSK***	1
3	end plug	use kit ***5000AIRSK***	1
4	Buna 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

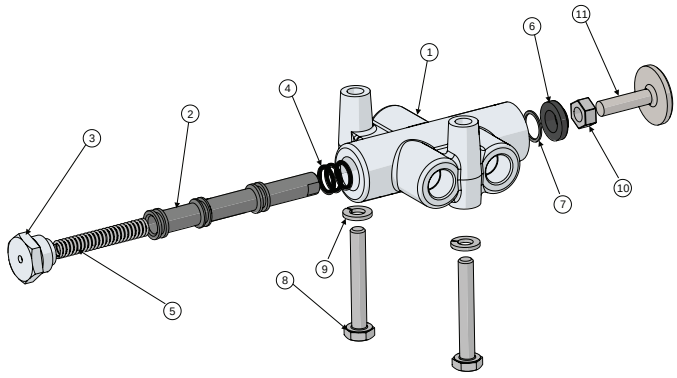
Fuel Tanker

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	Buna 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	1½" SS plunger button (5000AIST)	use kit ***5000ST***	1



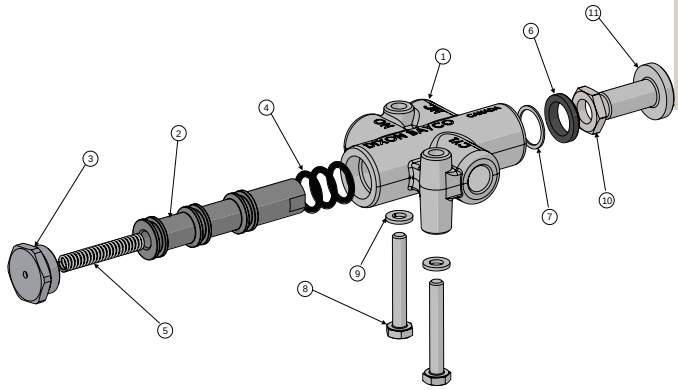
Repair Kits

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	1½" plunger button and nut	10, 11B
5000S	electronic switch attachment kit	3B
5000AIRK2	plunger button extension and sleeve kit	--
112024	Buna 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***	
11B	1½" plunger end	use kit ***5000STHD***	

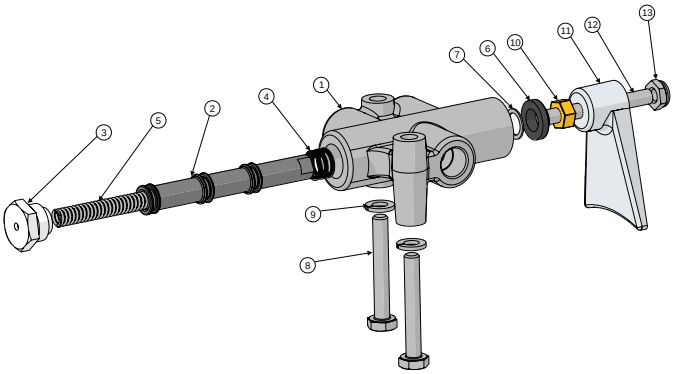


Repair Kits

Part #	Description	Includes Item #
5000AIHK	mounting bolts and lock washers	8, 9
5000AIHDSK	piston and seal kit	2, 3, 4, 5, 6
5000AIHDRK1	1" plunger assembly	10, 11A
5000STHD	1½" plunger assembly	10, 11B
111553	O-ring	4

Fuel Tanker

5000AIV Series Paddle End Air Interlock Valves



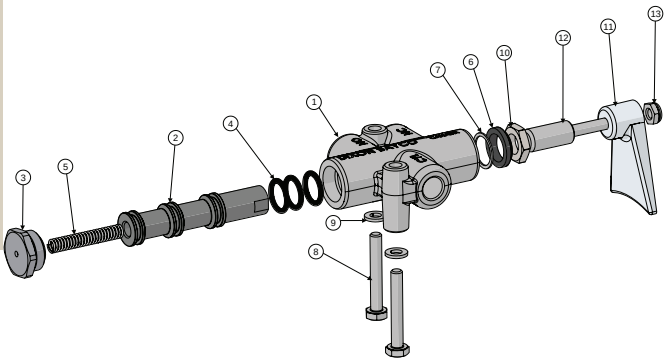
Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	piston	use kit ***5000AISK***	1
3	end plug	use kit ***5000AISK***	1
4	Buna 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

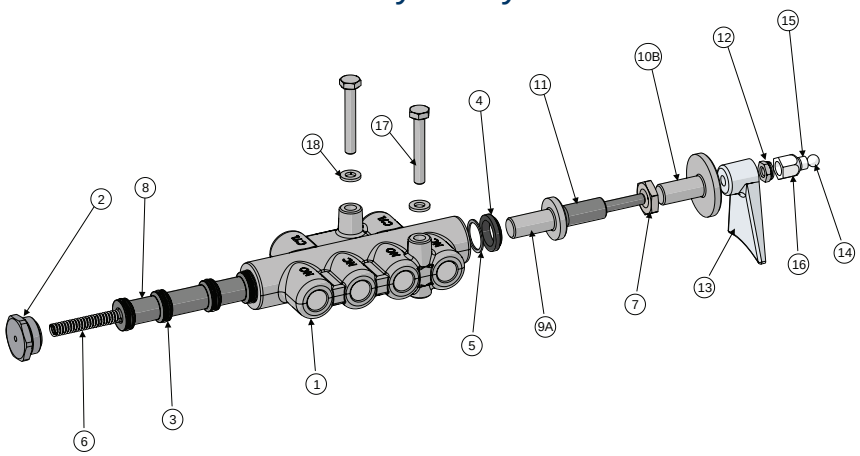
Repair Kits

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

Fuel Tanker

5006AIHD Series Heavy Duty Air Interlock Valves

NEW



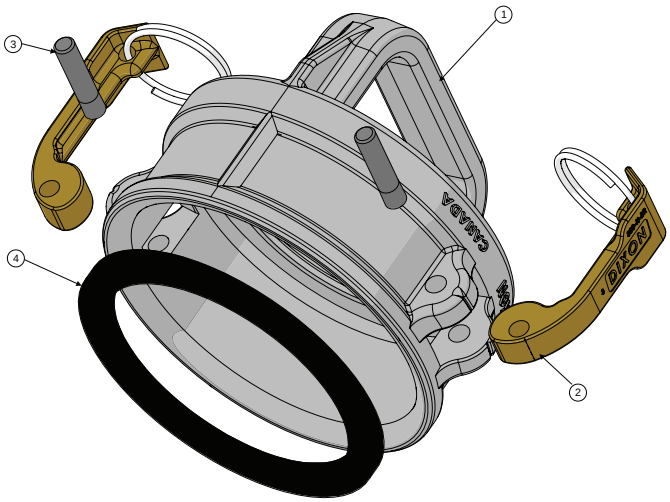
Bill of Materials

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	1½" 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



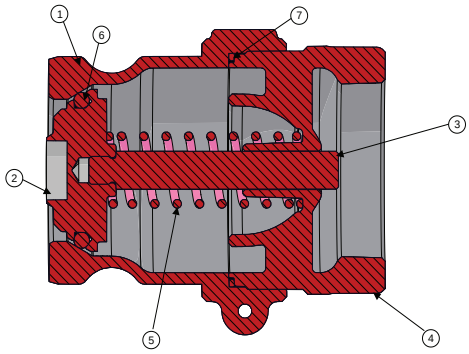
Bill of Materials

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

Dry Disconnects

DBA Cam and Groove Dry Disconnects

Aluminum and Stainless Adapters



1½" aluminum adapter(DBA6x), zinc adapter (DBA1x)
Bill of Materials
DBA1x-150, DBA6x-150 & DBA1x-1520

Item #	Description	Part #	Qty
1A	aluminum adapter body (DBA6x-150)	***40129AL***	1
1B	zinc adapter body (DBA1x-150 & DBA1x-1520)	***40129ZA***	1
2	poppet	***40130AL***	1
3A	stem (DBA1x-150 & 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 Buna	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 Kalrez™	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

2" aluminum adapter(DBA6x), zinc adapter (DBA1x)
Bill of Materials
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 Buna	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 Kalrez™	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

1½" stainless adapter
Bill of Materials 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 Buna	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 Kalrez™	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

2" stainless adapter
Bill of Materials 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 Buna	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 Kalrez™	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

Dry Disconnects

DBA Cam and Groove Dry Disconnects

Aluminum and Stainless Adapters

3" aluminum adapter(DBA6x), zinc adapter(DBA1x)
Bill of Materials
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 Buna	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 Kalrez™	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
Bill of Materials
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 Buna	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 Kalrez™	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

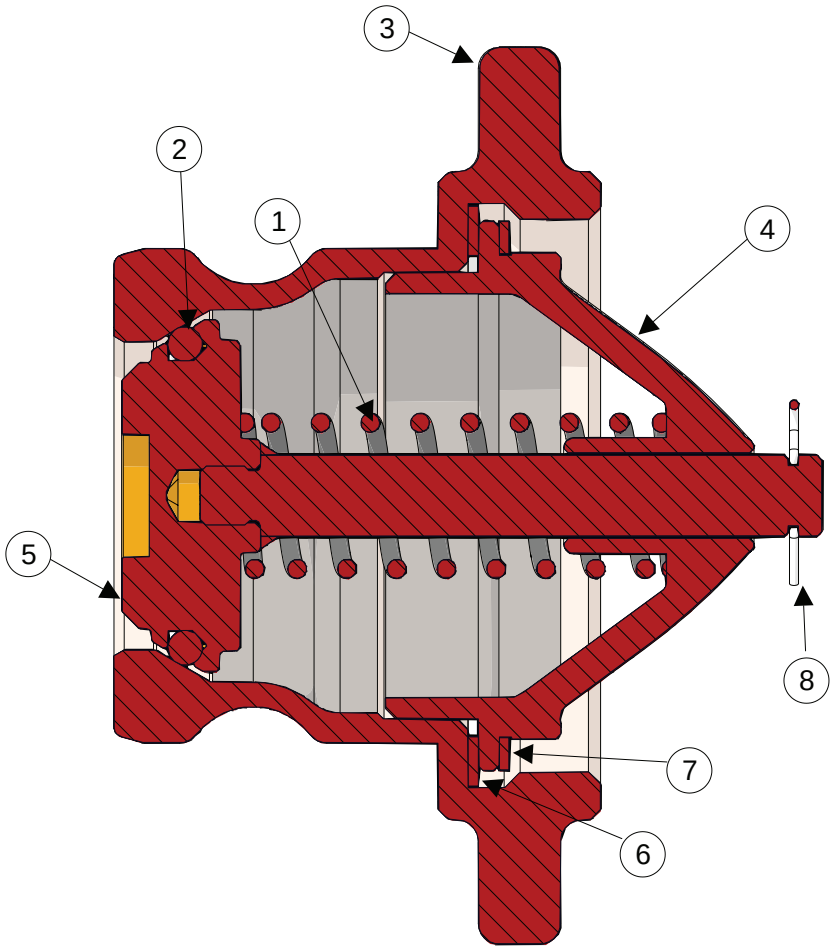
Repair Kits

Part #	Description	Includes Item #
DBAK1-150	1½" Buna seals	6A, 7A
DBAK2-150	1½" FKM seals	6B, 7B
DBAK3-150	1½" PTFE/silicone seals	6C, 7C
DBAK4-150	1½" EPDM seals	6D, 7D
DBAK6-150	1½" PTFE/Kalrez™ seals	6E, 7C
DBAK7-150	1½" PTFE/FKM seals	6F, 7C
DBAK1-200	2" Buna 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/Kalrez™ 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/Kalrez™ seals	6E, 7C
DBAK7-300	3" PTFE/FKM seals	6F, 7C
DBAK9-300	3" FKM-B seals	6G, 7E

Dry Disconnects

DBVA Cam and Groove Dry Disconnects

Stainless Vapor Adapter



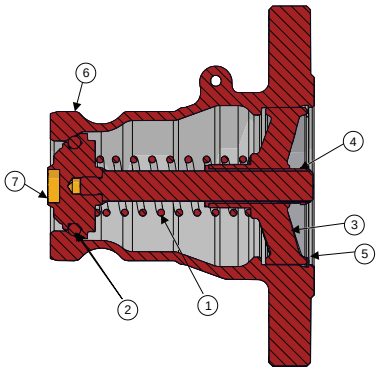
2" x 3" stainless vapor adapter
Bill of Materials DBVA73-200

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

Dry Disconnects

DBAF Cam and Groove Dry Disconnects

Stainless Flange Adapters



2" flange x 1½" stainless adapter
Bill of Materials DBAF7x-1520

Item #	Description	Part #	Qty
1	spring	***40004SS***	1
2A	poppet O-ring Buna	***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 Buna	***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

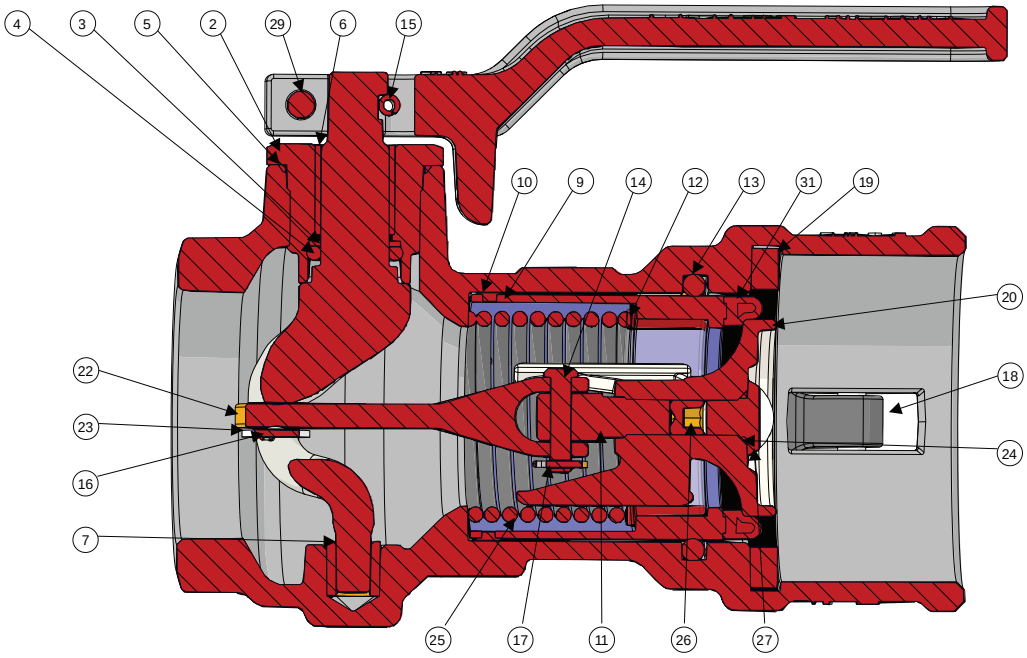
3" flange x 3" stainless adapter
Bill of Materials DBAF7x-300

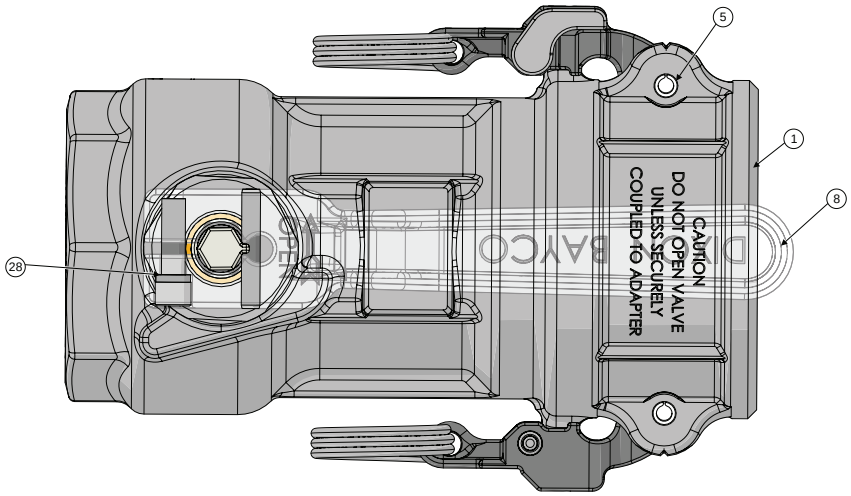
Item #	Description	Part #	Qty
1	spring	***40184SS***	1
2A	poppet O-ring Buna	***40185BN***	1
2B	poppet O-ring FKM	***40185VI***	1
2C	poppet O-ring PTFE/silicone	***40185TS***	1
2D	poppet O-ring EPDM	***40185EP***	1
2E	poppet O-ring FFKM	***40185KR***	1
3	bridge	***40360SS***	1
4	bearing	***40362TF***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

Dry Disconnects

DBC Cam and Groove Dry Disconnects

Aluminum and Stainless Couplers





Bill of materials and repair kits can be found on the following pages:

DBC6x-150 see page 113
DBC7x-150 see page 114
DBC6x-200 see page 115
DBC7x-200 see page 116
DBC6x-300 see page 118
DBC7x-300 see page 119
DBS6x-200 see page 121

Dry Disconnects

DBC Cam and Groove Dry Disconnects

1½" Aluminum Couplers

1½" aluminum coupler
Bill of Materials
DBC6x-150

Refer to drawing on page 112.

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

Repair Kits

Part #	Description	Includes Item #
DBCx1-150RK1 (Buna-N)	seal kit, Buna crank shaft O-ring, PTFE stuffing box O-ring, Buna body O-ring, Buna 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 & 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	Buna 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 & 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 1½" aluminum)	11, 14, 16, 17, 22, 23
DBCxx-150RK5	stuffing box kit, stuffing box, PTFE O-ring and large crank shaft bearing (for all 1½" aluminum)	2, 5, 6
DBCxx-150RK6	lever (handle) kit, lever, groove pin, lock washer and socket head cap screw (for all 1½" aluminum)	8, 15, 28, 29
DBCxx-150RK7	crank shaft kit, crank shaft, cotter pin and washer (for all 1½" 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 1½"aluminum)	20, 24, 26, 27
DBCL-200	optional add on padlock-able lever kit, handle (for all 1½")	not illustrated

Dry Disconnects

DBC Cam and Groove Dry Disconnects

1½" Stainless Couplers

1½" stainless coupler
Bill of Materials
DBC7x-150
Refer to drawing on page 112.

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

Repair Kits

Part #	Description	Includes Item #
DBCx1-150RK1 (Buna-N)	seal kit, Buna crank shaft O-ring, PTFE stuffing box O-ring, Buna body O-ring, Buna 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 & Chemrez®)	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 & 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	Buna seal cylinder, PTFE buttons & 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 & PTFE bushing (for DBC73-150, DBC76-150 & DBC77-150)	10, 12, 31
DBC74-150RK2	EPDM seal cylinder, PTFE buttons & PTFE bushing (for DBC74-150)	9D, 10, 12
DBCxx-150RK4	link kit, link rivet, cotter pins, link washer, link arm & yoke (for all 1½" stainless steel)	11, 14, 16, 17, 22, 23
DBCxx-150RK5	stuffing box kit, stuffing box, PTFE O-ring & large crank shaft bearing (for all 1½" stainless steel)	2, 5, 6
DBCxx-150RK6	lever (handle) kit, lever, groove pin, lock washer & socket head cap screw (for all 1½" stainless steel)	8, 15, 28, 29
DBCxx-150RK7	crank shaft kit, crank shaft, cotter pin & washer (for all 1½" stainless steel)	16, 21, 23
DBCxx-150RK8	main cylinder spring	25
DBCxx-150RK9	poppet kit, poppet, round head screw, set screw & PTFE O-ring (for all 1½" stainless steel)	20, 24, 26, 27
DBCL-200	Optional add on padlockable lever kit (handle) (for all 1½")	not illustrated

Dry Disconnects

DBC Cam and Groove Dry Disconnects

2" Aluminum Couplers

2" aluminum coupler
Bill of Materials
DBC6x-200

Refer to drawing on page 112.

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

Repair Kits

Part #	Description	Includes Item #
DBCx1-200RK1 *(Buna-N)*	seal kit, Buna crank shaft O-ring, PTFE stuffing box O-ring, Buna body O-ring, Buna 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 &* 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 &* 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	Buna 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 & 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 & large crank shaft bearing (for all 2" aluminum)	2, 5, 6
DBCxx-200RK6	lever (handle) kit, lever, groove pin, lock washer & socket head cap screw (for all 2" aluminum)	8, 15, 28, 29
DBCxx-200RK7	crank shaft kit, crank shaft, cotter pin & 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 padlock-able lever kit, handle (for all 2")	not illustrated

Dry Disconnects

DBC Cam and Groove Dry Disconnects

2" Stainless Couplers

2" stainless coupler
Bill of Materials
DBC7x-200

Refer to drawing on page 112.

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

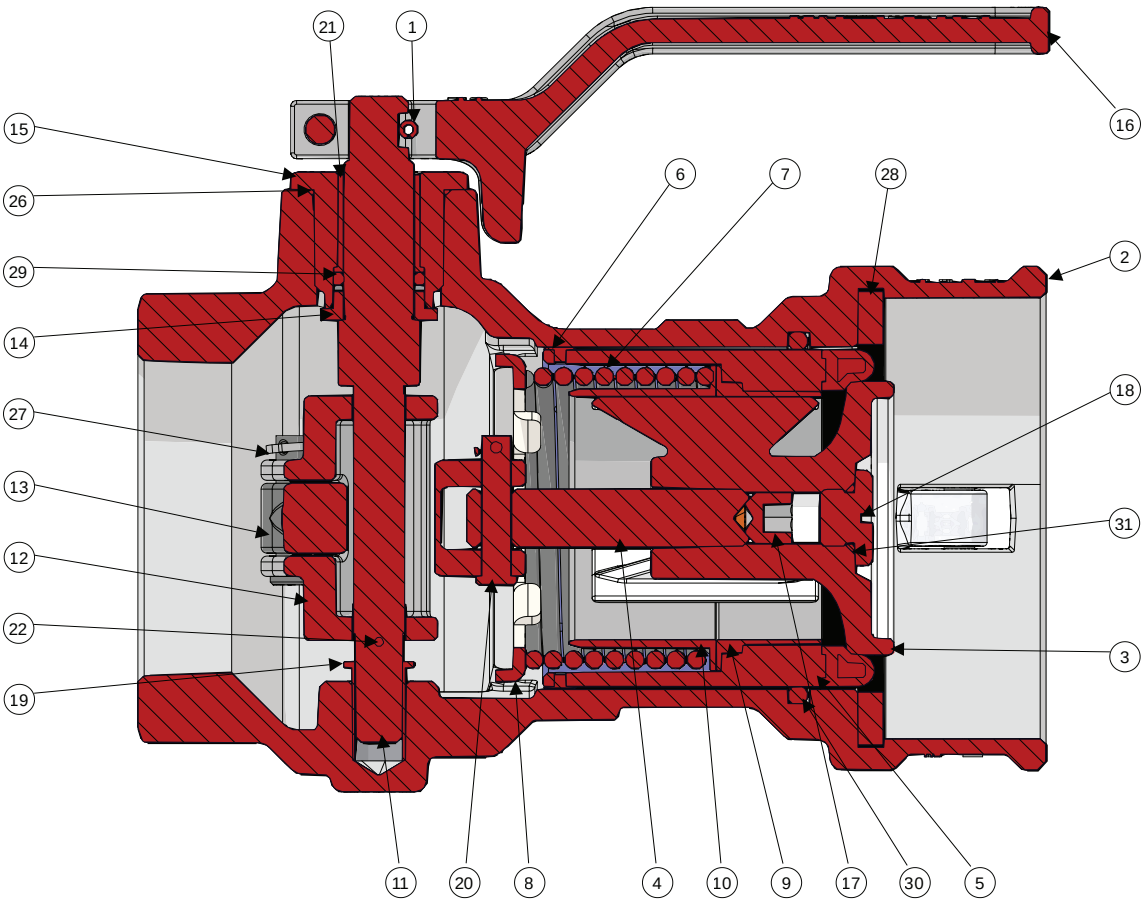
Repair Kits

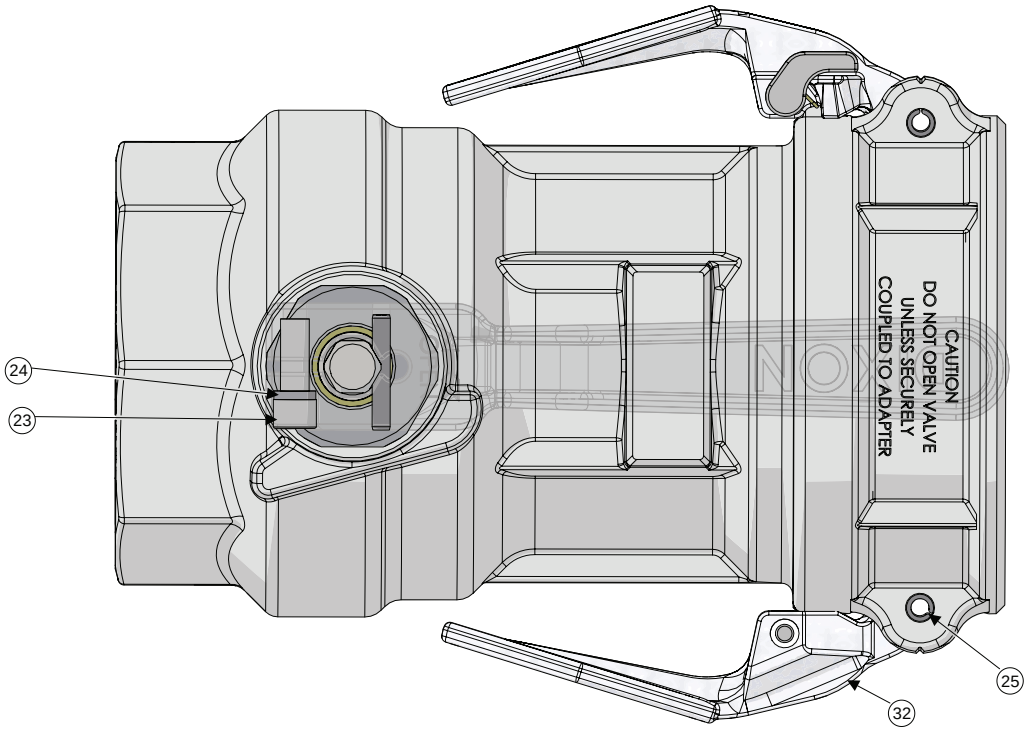
Part #	Description	Includes Item #
DBCx1-200RK1 (Buna-N)	seal kit, Buna crank shaft O-ring, PTFE stuffing box O-ring, Buna body O-ring, Buna cam gasket, PTFE O-ring (for DBC71-200)	4A, 5, 13A, 19A, 24
DBCx2-200RK1 (FKM)	seal kit, FKM crank shaft O-ring, PTFE stuffing box O-ring, FKM body O-ring, FKM 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 & 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	Buna 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 & DBC77-200)	10, 12, 31
DBC74-200RK2	EPDM seal cylinder, PTFE buttons & 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

Dry Disconnects

DBC Cam and Groove Dry Disconnects

3" Aluminum Couplers





Dry Disconnects

DBC Cam and Groove Dry Disconnects

3" Aluminum Couplers

3" aluminum coupler
Bill of Materials
DBC6x-300
Refer to drawing on page 117.

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

Repair Kits

Part #	Description	Includes Item #
DBCx1-300RK1 (Buna-N)	seal kit, Buna stuffing box O-ring, PTFE stuffing box to body O-ring, Buna body O-ring, Buna 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 & 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	Buna 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 & 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	Buna 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 & bearing	15, 21, 26
DBCxx-300RK6	lever (handle) kit, lever, groove pin, lock washer & 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

Dry Disconnects

DBC Cam and Groove Dry Disconnects

3" Stainless Couplers

3" stainless coupler
Bill of Materials
DBC7x-300v
Refer to drawing on page 117.

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

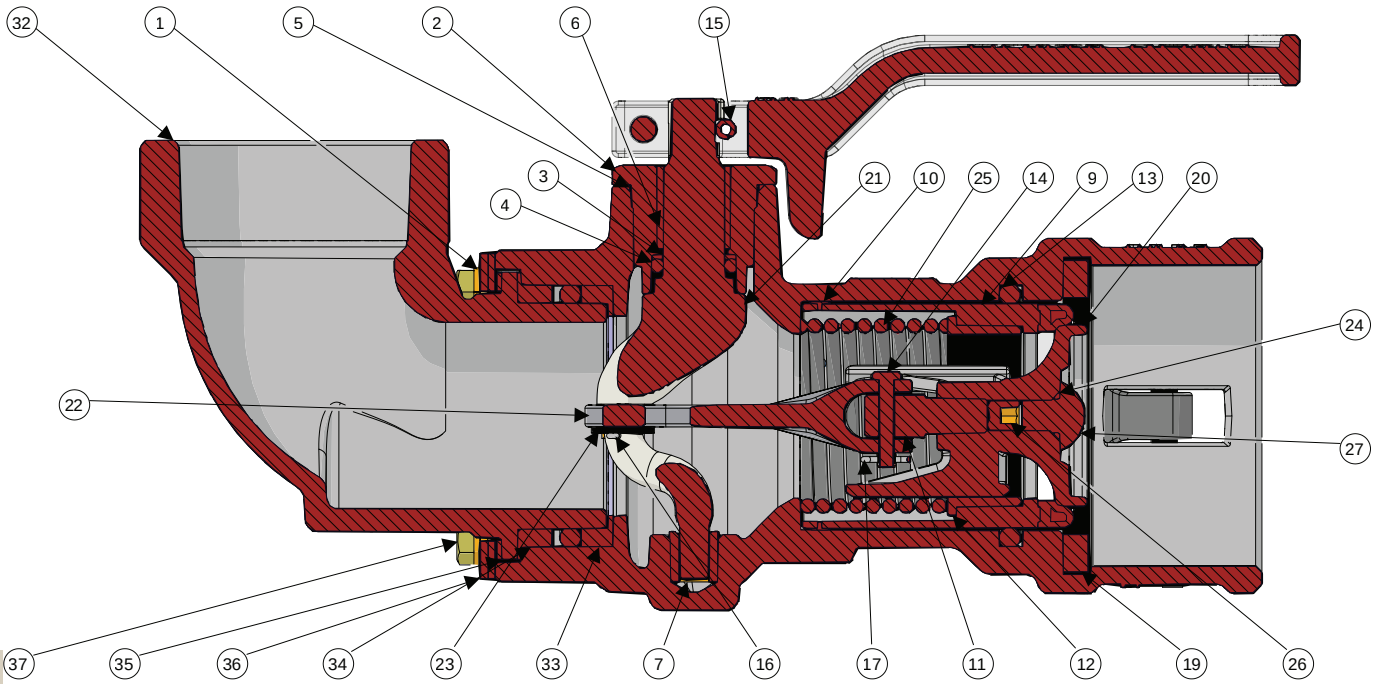
Repair Kits

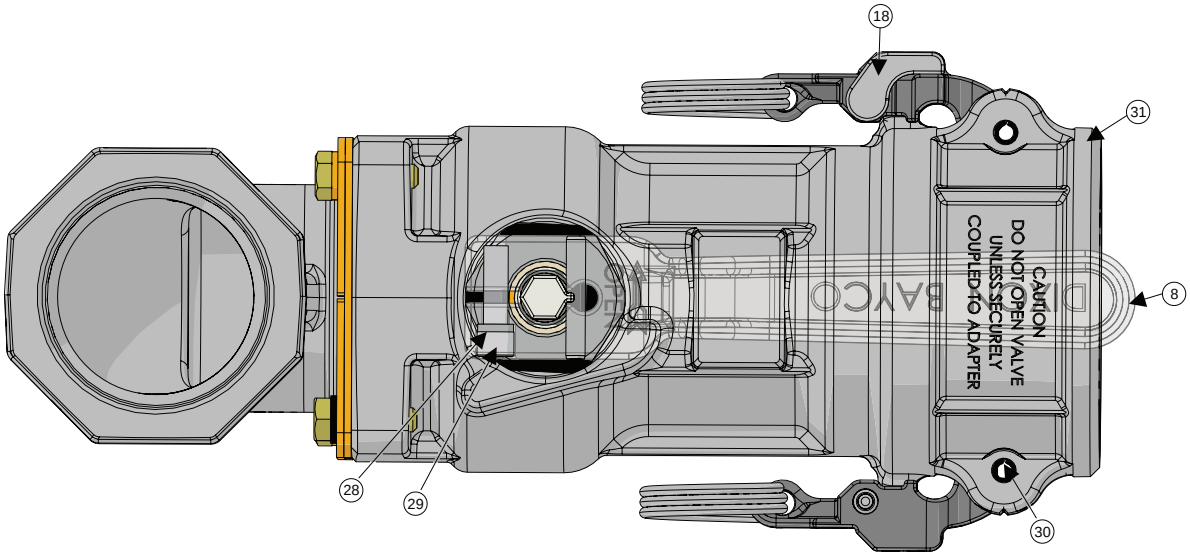
Part #	Description	Includes Item #
DBCx1-300RK1 (Buna-N)	seal kit, Buna stuffing box O-ring, PTFE stuffing box to body O-ring, Buna body O-ring, Buna cam gasket, PTFE poppet screw O-ring (for DBC71-300)	26, 28A, 29A, 30A, 31
DBCx2-300RK1 (FKM)	seal kit, FKM stuffing box O-ring, PTFE stuffing box to body 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 & 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 & 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	Buna 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 & 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	Buna 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 & 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

Dry Disconnects

DBS 90° Swivel Cam and Groove Dry Disconnects

2" Aluminum 90° Swivel Couplers





Section A - A

Dry Disconnects

DBS 90° Swivel Cam and Groove Dry Disconnects

2" Aluminum 90° Swivel Couplers

2" aluminum 90° coupler
Bill of Materials
DBS6x-200

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

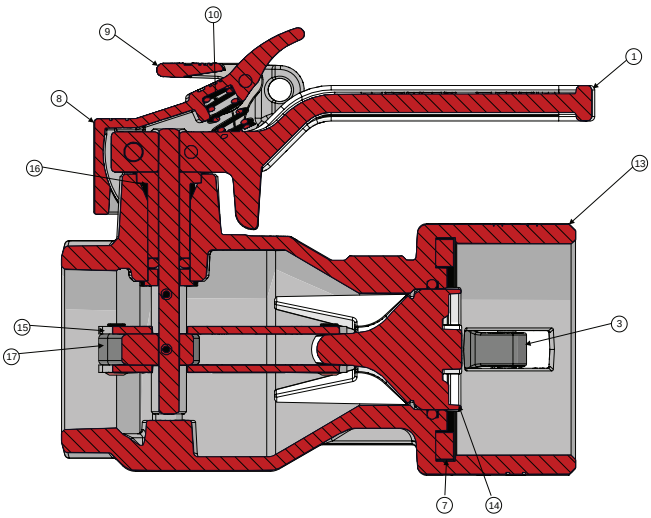
Repair Kits

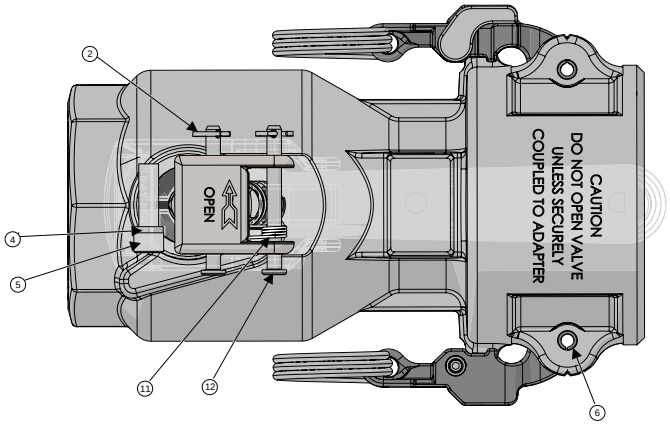
Part #	Description	Includes Item #
DBS61-200RK1	seal kit, Buna crank shaft O-ring,PTFE stuffing box O-ring, Buna and Swivel body O-rings, Buna cam gasket, PTFE O-ring (for DBS61-200)	4A, 5, 13A, 19A, 24
DBS62-200RK1	seal kit, FKM crank shaft O-ring,PTFE stuffing box O-ring, FKM body and swivel O-rings, FKM cam gasket, PTFE O-ring (for DBS62-200)	4B, 5, 13B, 19B, 24
DBS63-200RK1	seal kit, Kamrez® 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, Buna 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, Buna 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	Buna 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 & PTFE O-ring (for all 2")	20, 24, 26, 27
DBCL-200	optional add on padlockable lever kit, handle (for all 2")	not illustrated

Dry Disconnects

D2C Cam and Groove Actuator Style Dry Disconnects

1½" Stainless Couplers





Petroleum Replacement Parts

1½" 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 Buna (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 Buna (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 Buna (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 Buna (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
24D	lever shaft O-ring EPDM (for D2C74-200)	***40296EP***	1

Dry Disconnects

Dry Disconnect Bayonet Style Adapters

2" and 3" Adapters

2" Stainless Adapter
Bill of Materials
BA3x-200

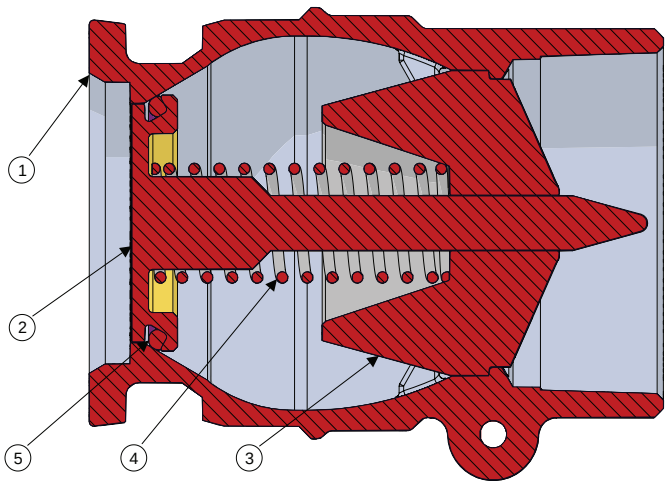
Item #	Description	Part #	Qty
1	stainless body	***40053SS***	1
2	brass poppet	***40054BR***	1
3	stainless deflector	***40055SS***	1
4	stainless spring	***40056SS***	1
5A	Buna O-ring (for BA31-200)	***BA31-200RK1***	1
5B	FKM O-ring (for BA32-200)	***BA32-200RK1***	1

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	Buna 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

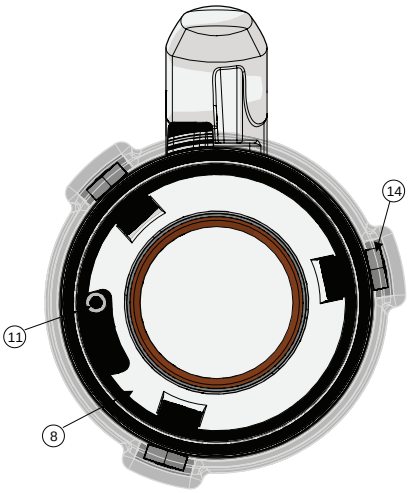
Item #	Description	Part #	Qty
1	bronze body	***40278BR***	1
2	bronze poppet	***40279BR***	1
3	bronze deflector	***40280BR***	1
4	stainless steel spring	***40281SS***	1
5A	Buna O-ring (for BA31-300)	***BA31-300RK1***	1
5B	FKM O-ring (for BA32-300)	***BA32-300RK1***	1

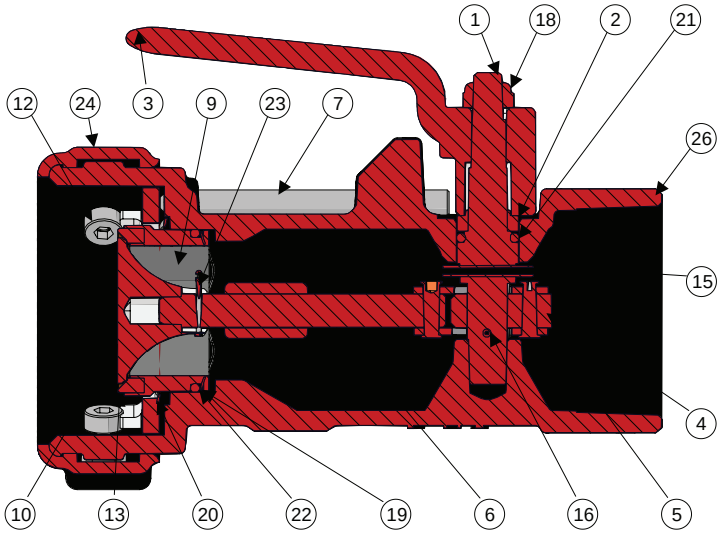


Dry Disconnects

Dry Disconnect Bayonet Style Couplers

2" Straight Non-Swiveling Couplers





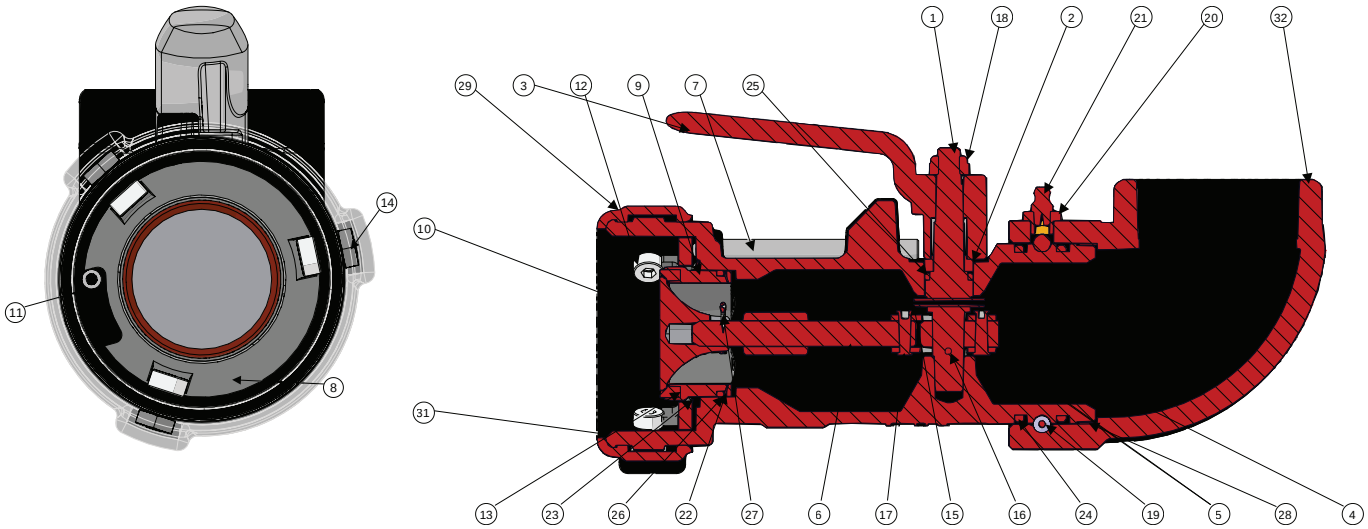
2" Stainless Coupler
Bill of Materials
BC6x-200

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 Buna (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 Buna (for BC61-200)	***40162BN***	1
21B	shaft O-ring FKM (for BC62-200)	***40162VI***	1
22A	poppet O-ring Buna (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

Dry Disconnects

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	Buna 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

Bill of Materials, *continued*

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	Buna swivel O-ring (BS & BSS61-200)	***40161BN***	2
24B	FKM swivel O-ring (BS & BSS62-200)	***40161VI***	2
25A	Buna stem O-ring (BS & BSS61-200)	***40162BN***	1
25B	FKM stem O-ring (BS & BSS62-200)	***40162VI***	1
26A	Buna nose O-ring (BS & BSS61-200)	***40163BN***	1
26B	FKM nose O-ring (BS & 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

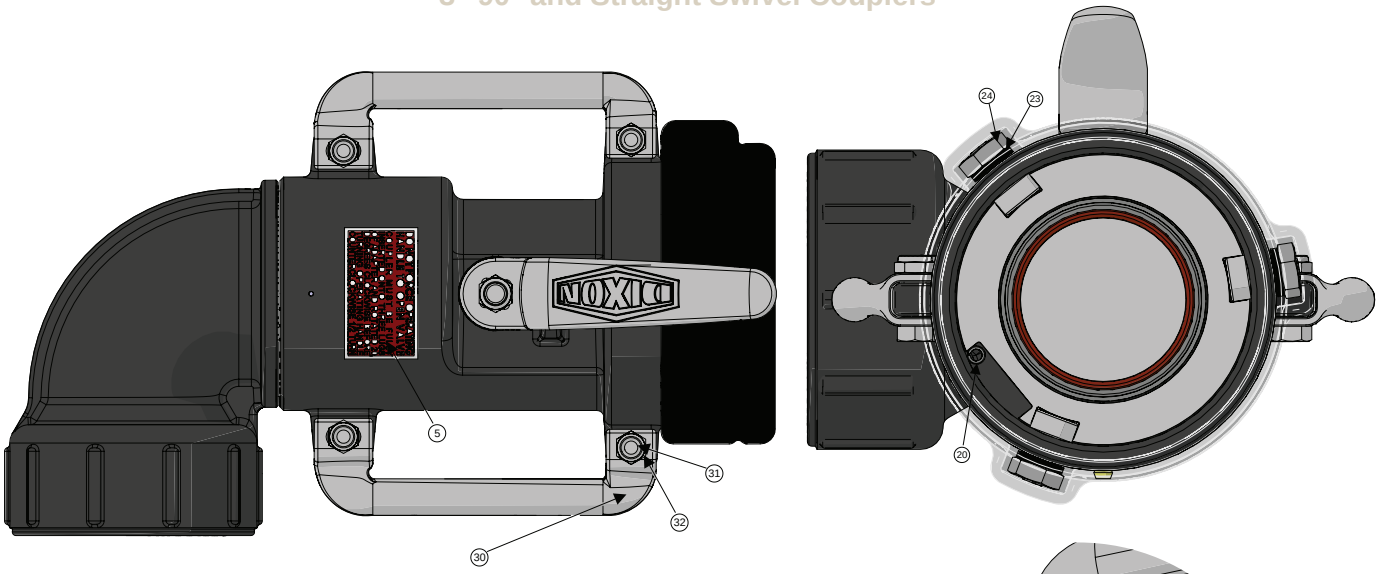
Repair Kits

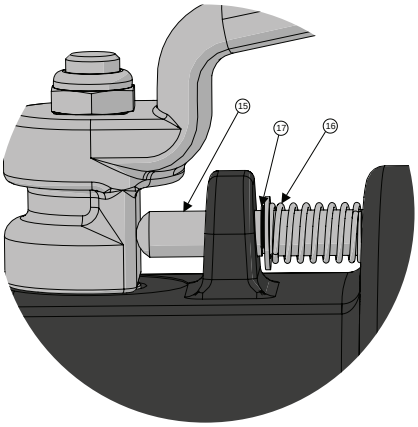
Part #	Description	Includes Item #
BS61-200RK1	seal repair kit, Buna nose seal, spring pin, grooved pin, Buna swivel O-rings, Buna stem O-ring, Buna nose body O-ring, cotter pin, bearing strip & bumper ring	13A, 15, 16, 25A, 26A, 27, 28, 29
BS62-200RK1	seal repair kit, FKM nose seal, spring pin, grooved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

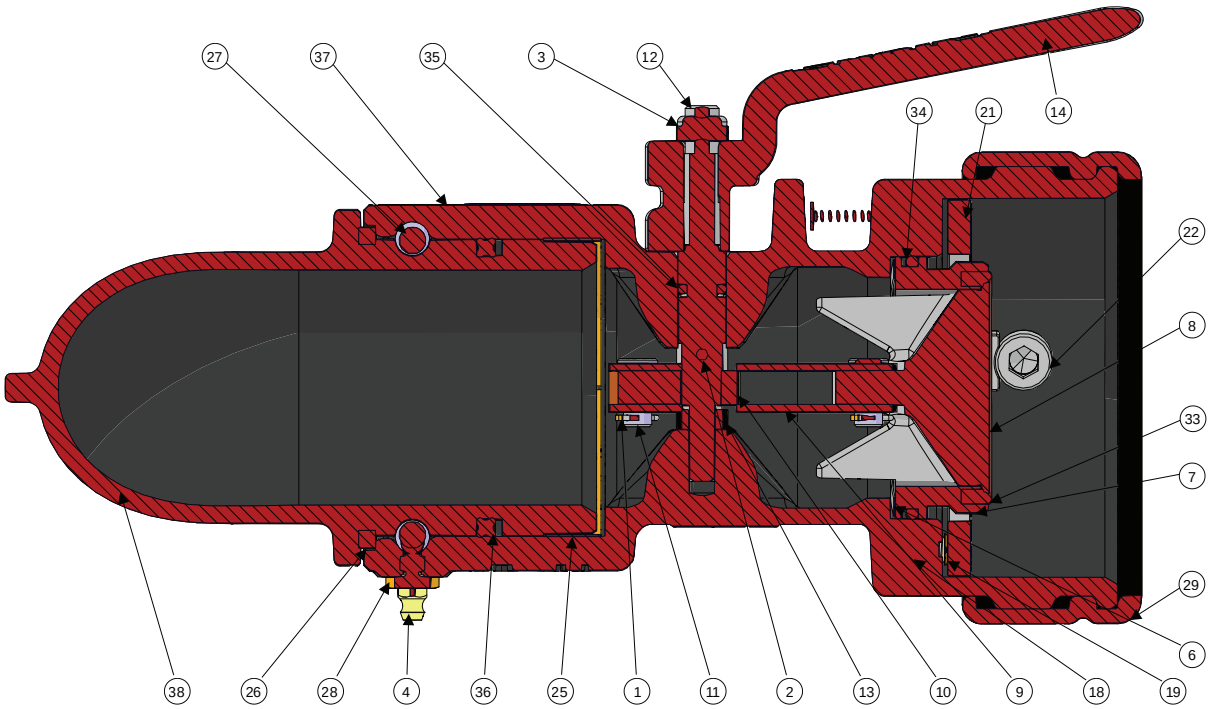
Dry Disconnects

BA/BS/BSS Series Bayonet Style Dry Disconnects

3" 90° and Straight Swivel Couplers







Dry Disconnects

BA/BS/BSS Series Bayonet Style Dry Disconnects

3" 90° and Straight Swivel Couplers

The 90° swivel coupler (BS series) is illustrated on page 126.
The straight swivel coupler (BSS series) uses the same components.

3" swivel aluminum coupler
Bill of Materials
BS6x-300 and BSS6x-300

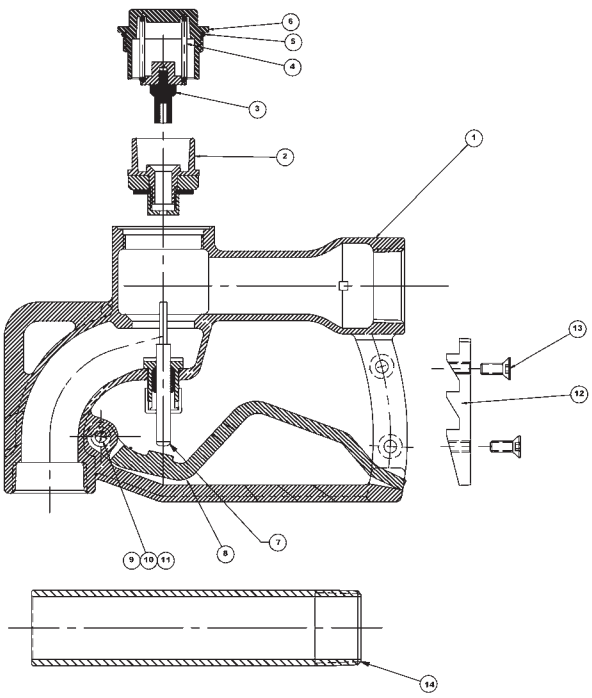
Item #	Description	Part #	Qty
1	cotter pin	***40088SS***	2
2	spring pin	***40152SS***	1
3	lock nut	***40155SS***	1
4	grease fitting	***40158ST***	1
5	label	***40167AL***	1
6	wave spring	***40246SS***	1
7	nose piece	***40247HC***	1
8	poppet	***40248CA***	1
9	bent link	***40249SS***	2
10	drive link	***40250SS***	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	Buna nose seal	***40273BN***	1
33B	FKM nose seal	***40273VI***	1
34A	Buna nose body O-ring	***40274BN***	1
34B	FKM nose body O-ring	***40274VI***	2
35A	Buna stem O-ring	***40275BN***	1
35B	FKM stem O-ring	***40275VI***	1
36A	Buna 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, Buna nose seal, spring pin, Buna swivel O-rings, Buna stem O-ring, Buna 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, 29, 33B, 34B, 35B
BS61-300RK2	swivel seal repair kit, Buna 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

Fuel Nozzles

112D and 112DNS (1½") 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	Buna 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

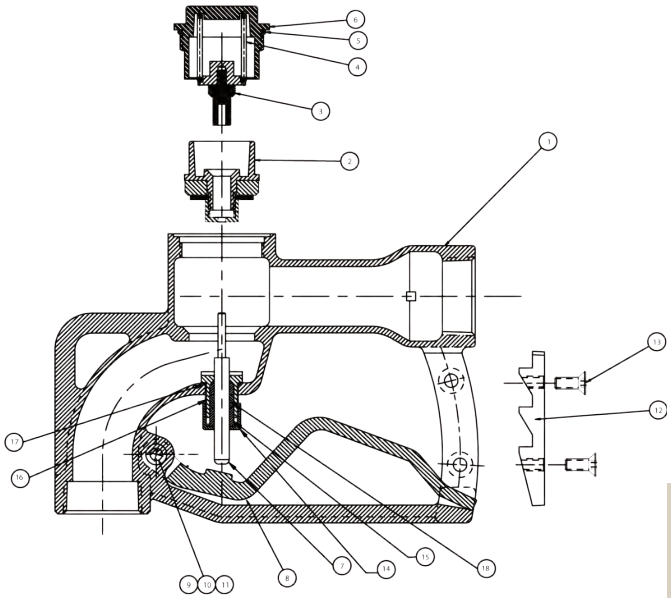
Part #	Description	Includes Item #
112DSK	main poppet, 2nd poppet, cap O-ring, valve stem	2, 3, 5, 7
1125A	1½" aluminum spout	14
1125B	1½" brass spout (optional)	---
114/2D-TK	trigger, pin, cotter pin, bushing	8, 9, 10, 11
114DAL-AV-19	blank plate to replace ratchet plate if ratchet not required (optional)	---

Fuel Nozzles

114D and 114DNS (1¼") 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	Buna 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	***1143A***	1
15	sleeve stem packing	***SLVL358-1***	1
16	valve stem guide & 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



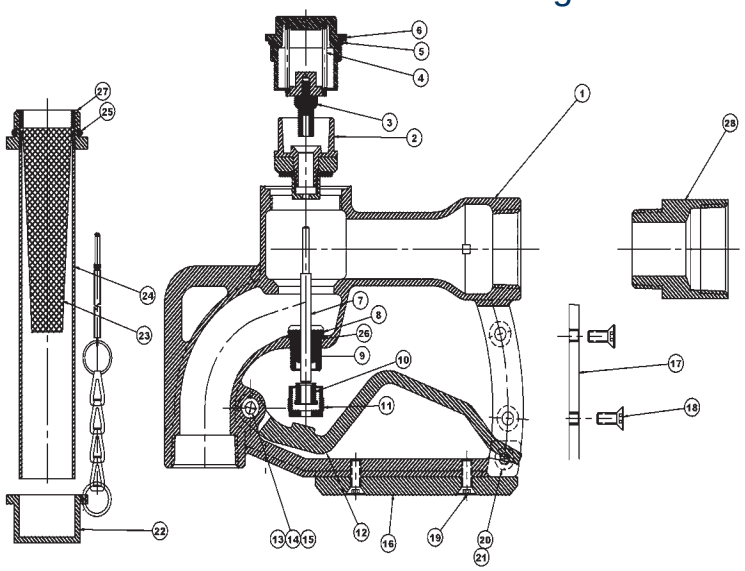
Repair Kits

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 & 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

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Fuel Nozzles

114D-AV Aircraft Over Wing Nozzles



Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	main poppet assembly	use kit ***114DAV-SK***	1
3	second poppet assembly	use kit ***114DAV-SK***	1
4	poppet spring	***SPRG-L368***	1
5	Buna cap O-ring	***O-RING-AS-129***	1
6	bronze cap	***114DAL-4***	1
7	valve stem	***114DAL-3***	1
8	valve stem guide & O-ring	use kit ***114DAV-SK***	1
9	valve stem packing	***STEMPACK-L360***	2
10	sleeve stem packing	***SLV358-1***	1
11	valve stem nut	***NUTL357-1***	1
12	trigger	use kit ***114/2D-TK***	1
13	trigger bushing	***114DAL-10***	1
14	trigger pin	***PIN-L389-SS***	1
15	cotter pin	***110746***	1
16	base plate	***110088***	1
17	trigger spacer	***114DAL-AV-19***	1
18	trigger spacer screws	***110798***	2
19	base plate screws	***100AV-15***	2
20	ground screw	***407119***	1
21	ground screw lock washer	***100AV-17***	1
22	spout cap	***114DAL-AV-22***	1
23A	1" spout filter screen (114DAVR)	***100AV-12***	1
23B	1¼" spout filter screen (114D-AV, 114D-AV-06ASM)	***114DAL-AV-20***	1
24A	1" spout (114DAVR)	use kit ***114DAL-AV-25***	1
24B	1¼" spout (114D-AV, 114D-AV-06ASM)	use kit ***114DAL-AV-16***	1
25A	1" spout O-ring (114DAVR)	use kit ***114DAL-AV-25***	1
25B	1¼" spout O-ring(114D-AV, 114D-AV-06ASM)	use kit ***114DAL-AV-16***	1
26	valve stem guide O-ring	***O-RING-AS016***	1
27A	1" spout adapter (114DAVR)	use kit ***114DAL-AV-25***	1
27B	1¼" spout adapter (114D-AV, 114D-AV-06ASM)	use kit ***114DAL-AV-16***	1
28	1½" inlet expander (114D-AV-06ASM)	***340165***	1

Repair Kits

Part #	Description	Includes Item #
114/2D-TK	trigger, bushing, pin and cotter pin	12, 13, 14, 15
114DAV-SK	main and secondary poppet assemblies, cap O-ring and valve stem assembly	2, 3, 5, 8
114DAL-AV-25	1" spout assembly (114DAVR)	24A, 25A, 27A
114DAL-AV-16	1¼" spout assembly (114D-AV, 114D-AV-06ASM)	24B, 25B, 27B

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

Fuel Nozzles

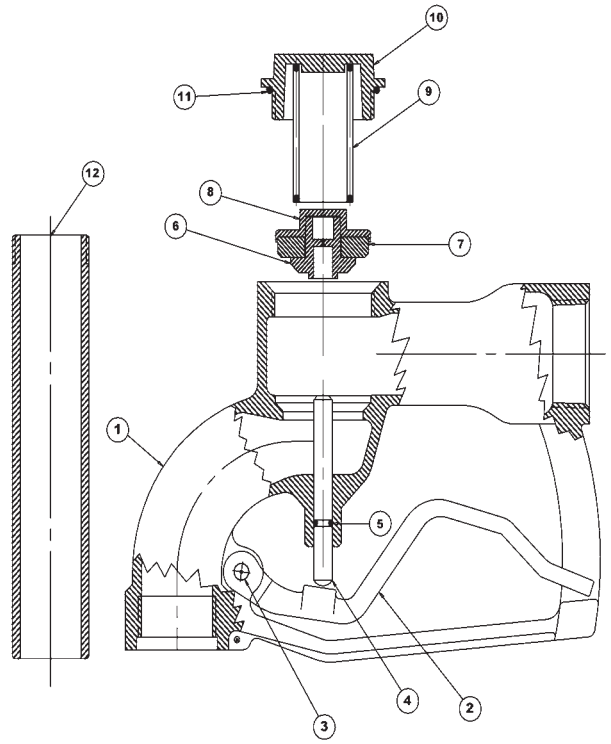
1250-94 Series Gravity Nozzles

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	Buna 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



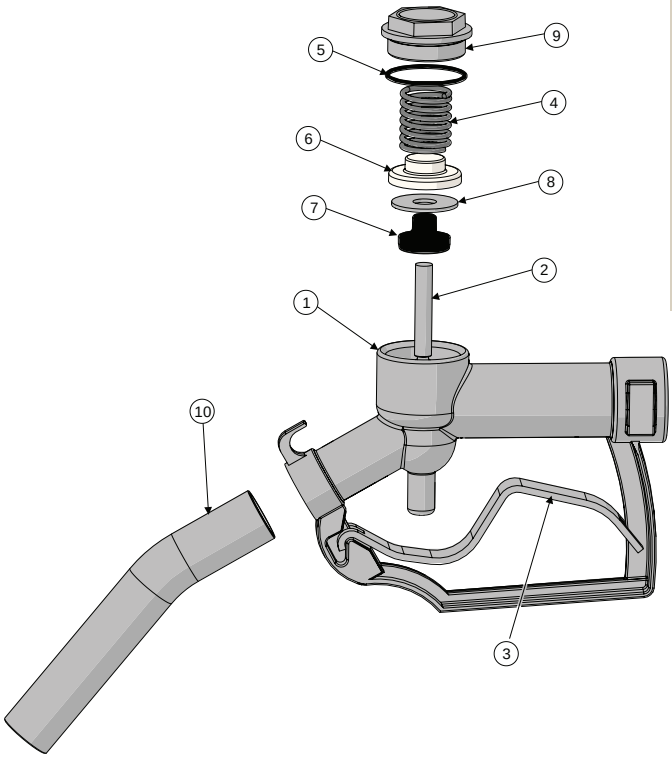
900 Series Utility Nozzles

Bill of Materials

Item #	Description	Part #	Qty
1	body	---	1
2	plunger	use kit ***900SK***	1
3	trigger	***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	¾" spout	***234-80-4***	1
10C	1" bent spout	***875-5***	1
10D	¾" bent spout	***234-80-5***	1
not illustrated	¾" FNPT inlet reducer	***900RB***	1

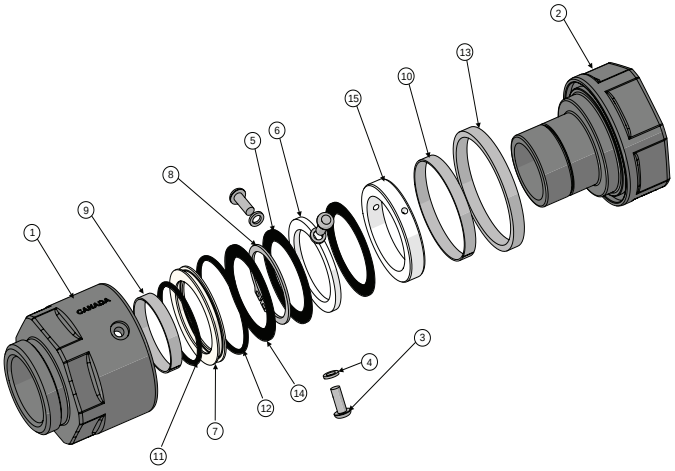
Repair Kits

Part #	Description	Includes Item #
900TK	trigger	3
900SK	plunger assembly, valve assembly, cap O-ring	2, 4, 5, 6, 7, 8, 9



Fuel Nozzles

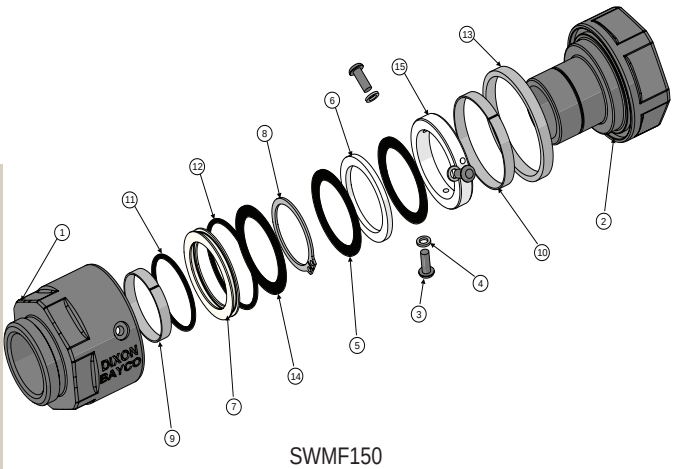
SWMF125, SWMF150 and SWMF200 Swivels



SWMF125

Bill of Materials SWMF125 & SWMF150

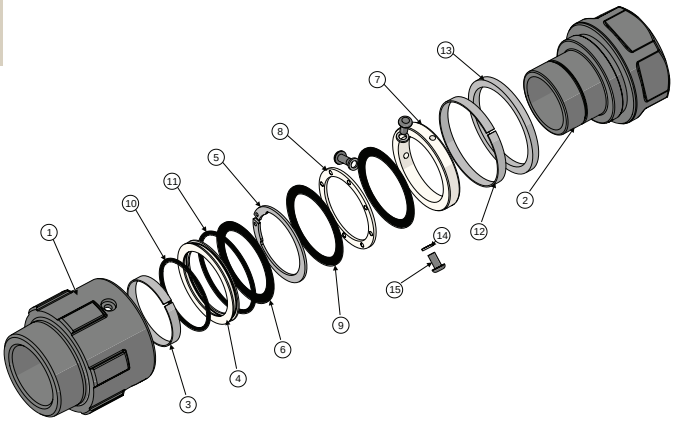
Item #	Description	Part #	Qty
1	female body	---	1
2	male body	---	1
3	screw	use kit ***SWMF-RK2***	3
4	lock washer	use kit ***SWMF-RK2***	3
5	thrust bearing	use kit ***SWMF-RK3***	1
6	thrust washer	use kit ***SWMF-RK3***	2
7	O-ring holder	use kit ***SWMF-RK2*** or ***SWMF-RK3***	1
8	retaining ring	use 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



SWMF150

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



SWMF200

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

Fuel Nozzles

Hose Shank and Check Valve Swivels

Check Valve NPT Swivel

Part #	Description
1280	1¼" MNPT x 1¼" FNPT
1580U	1½" MNPT x 1½" FNPT
1580R	1¼" MNPT x 1½" FNPT

Hose x MNPT Swivel

Part #	Description
1265	1¼" MNPT x 1¼" hose shank
1565U	1½" MNPT x 1½" hose shank
1570	1½" MNPT x 1⅜" hose shank

Repair Kits

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

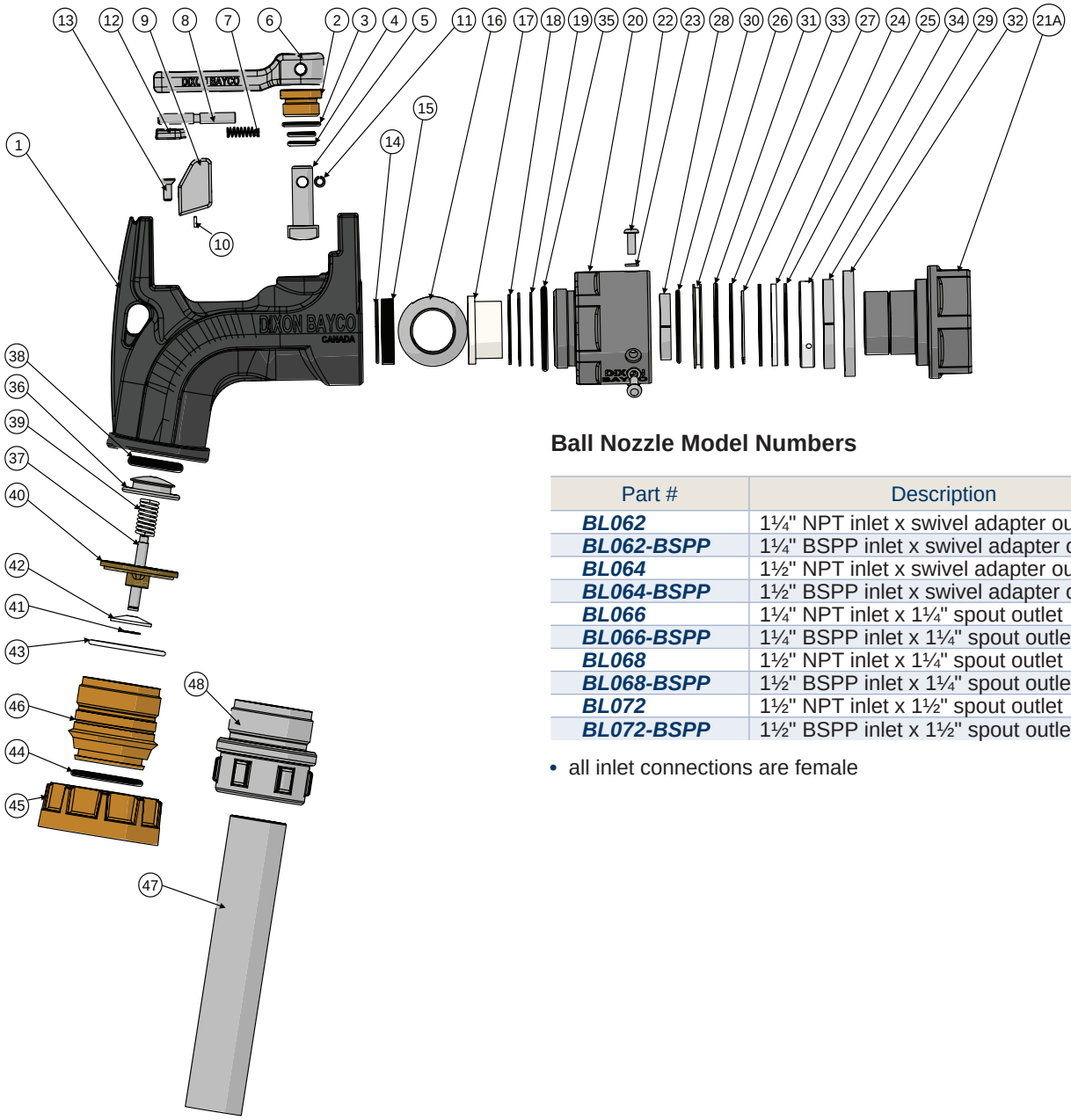
500AV and 525AV Angle Valves

Repair Kit

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

Fuel Nozzles

BL Ball Nozzles



Ball Nozzle Model Numbers

Part #	Description
BL062	1¼" NPT inlet x swivel adapter outlet
BL062-BSPP	1¼" BSPP inlet x swivel adapter outlet
BL064	1½" NPT inlet x swivel adapter outlet
BL064-BSPP	1½" BSPP inlet x swivel adapter outlet
BL066	1¼" NPT inlet x 1¼" spout outlet
BL066-BSPP	1¼" BSPP inlet x 1¼" spout outlet
BL068	1½" NPT inlet x 1¼" spout outlet
BL068-BSPP	1½" BSPP inlet x 1¼" spout outlet
BL072	1½" NPT inlet x 1½" spout outlet
BL072-BSPP	1½" BSPP inlet x 1½" spout outlet

- 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	1½" 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	1¼" 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	1½" 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

Fuel Nozzles

BL Ball Nozzles

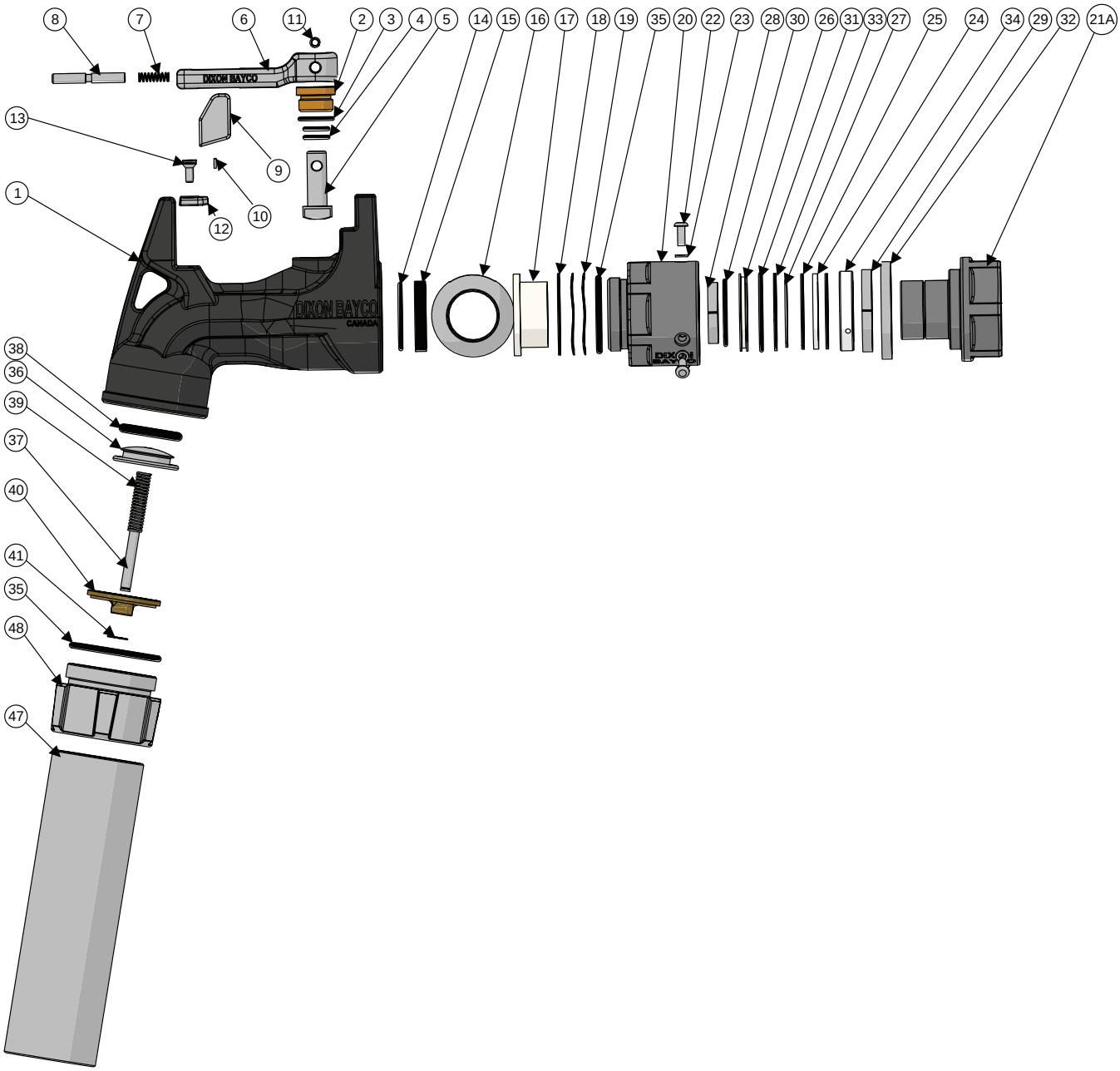
Bill of Materials

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 1¼" NPT	use kit ***SWMF-RK5***	1
21B	swivel inlet 1½" NPT	use kit ***SWMF-RK4***	1
21C	swivel inlet 1½" 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 1¼"	***1143A***	1
47B	spout 1½"	***1125A***	1
48A	spout adapter 1¼" NPT	***341703***	1
48B	spout adapter 1½" NPT	***BL007***	1

Fuel Nozzles

BL Super Ball Nozzles

BL918, BL919 & 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	1½" 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, 39a, 40, 41
BL-RK13	trigger kit	6, 7, 8, 9, 10, 11, 12, 13(2)

Fuel Nozzles

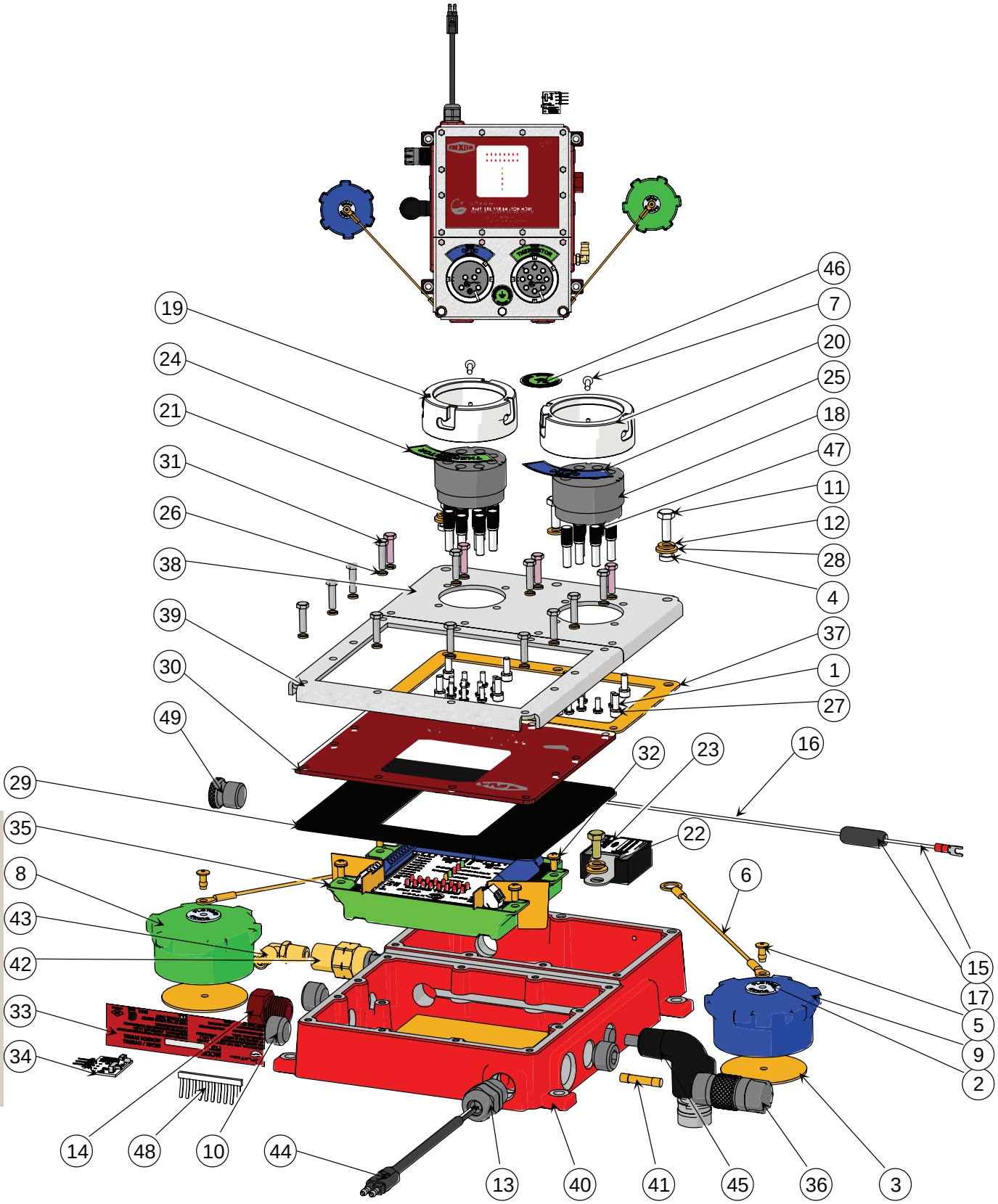
BL Super Ball Nozzles

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/B	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/B	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*** (1½")	1
48A/48B	spout adapter	***341780*** (NPT) / ***341781*** (BSPP)	1

Fuel Tanker Overfill Detection

FT208 - 39xP Series Plug-n-Play Monitors with Integrated Dual Sockets



Fuel Tanker Overfill Detection

Plug-n-Play Monitors with Integrated Dual Sockets

Bill of Materials

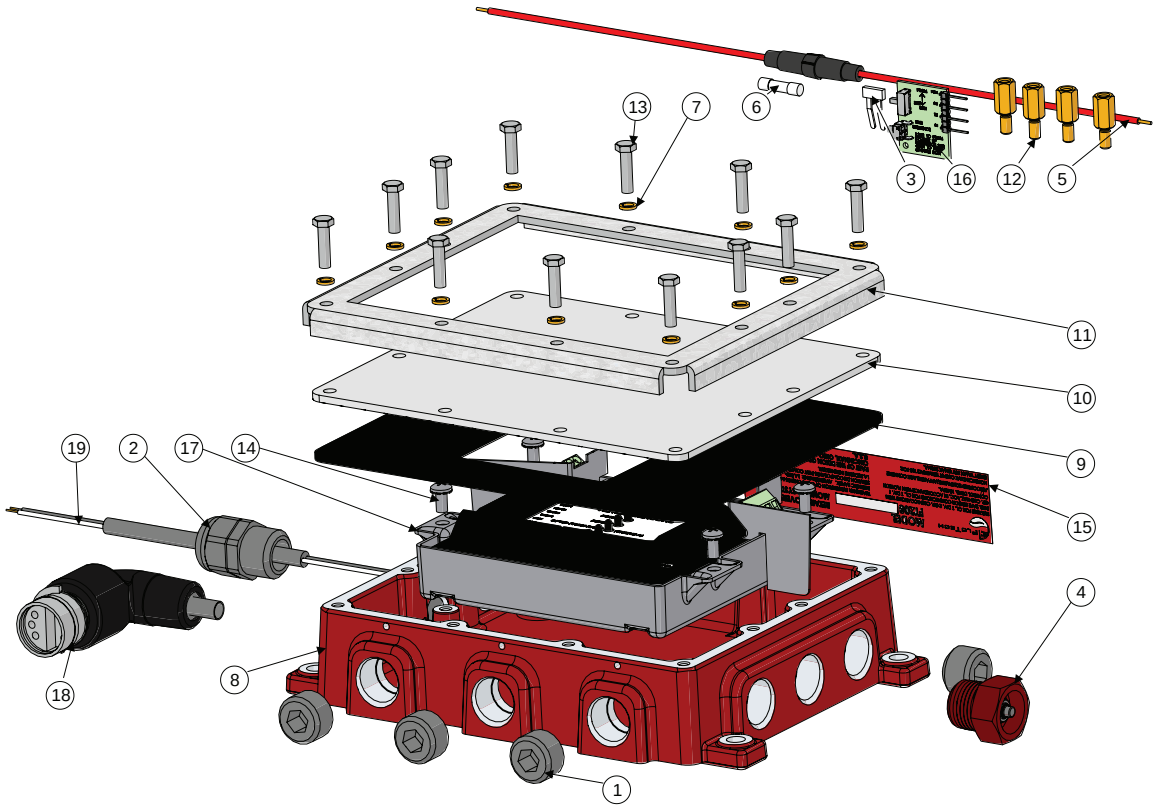
Item #	Description	Part #	Quantity of Components Per Unit																							
			FT208-390P	*FT208-390PG*	*FT208-390PGS*	*FT208-390PGSO*	*FT208-390PGST*	*FT208-390PGSTO*	*FT208-390PGT*	*FT208-390PP*	*FT208-390PPG*	*FT208-390PPGS*	*FT208-390PPGSO*	*FT208-390PPGST*	*FT208-390PPGSTO*	*FT208-390PPGT*	*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*	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
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*	n/a	n/a	n/a	1	n/a	1	n/a	n/a	n/a	n/a	1	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
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*	n/a	1	1	1	1	1	1	n/a	1	1	n/a	1	1	1	n/a	1	1	1	1	n/a	1	1	1	1
16	ground wire assembly	*10735-002*	n/a	1	1	1	1	1	1	n/a	1	1	n/a	1	1	1	n/a	1	1	1	1	n/a	1	1	1	1
17	ground wire assembly	*10735-002*	n/a	1	1	1	1	1	1	n/a	1	1	n/a	1	1	1	n/a	1	1	1	1	n/a	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	1	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	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
21	stainless steel socket pin - short	*10368SS (was FT9061)*	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
22	ground wire assembly	*10735-002*	n/a	1	1	1	1	1	1	n/a	1	1	n/a	1	1	1	n/a	1	1	1	1	n/a	1	1	1	1
23	Trailer Identification Module	*10372*	n/a	n/a	n/a	n/a	1	1	1	n/a	n/a	n/a	n/a	1	1	1	n/a	n/a	n/a	1	1	n/a	n/a	n/a	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 .5 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*	n/a	n/a	1	1	1	1	n/a	n/a	n/a	1	1	1	1	n/a	n/a	n/a	1	1	n/a	n/a	1	1	1	n/a
43	brass dot air brake swivel fitting	*10603BR*	n/a	n/a	1	1	1	1	n/a	n/a	n/a	1	1	1	1	n/a	n/a	n/a	1	1	n/a	n/a	1	1	1	n/a
44	power wire Plug-n-Play	*10612*	n/a	n/a	n/a	1	n/a	1	n/a	n/a	n/a	n/a	1	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
45	OBM plug elbow assy (Plug-n-Play)	*10616PLBN*	1	1	1	1	1	1	1	2	2	2	2	2	2	2	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	n/a	n/a	n/a	n/a	1	1	1	n/a	n/a	n/a	n/a	1	1	1	n/a	n/a	1	1	1	n/a	n/a	1
49	acetal plug	*10606AC-002*	1	1	n/a	n/a	n/a	n/a	1	1	1	n/a	n/a	n/a	n/a	1	1	1	n/a	n/a	1	1	1	n/a	n/a	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 6 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 & washers (4 ea)	26, 27

Fuel Tanker Overfill Detection

FT 208P Series Plug-n-Play Stand Alone Monitors



Bill of Materials

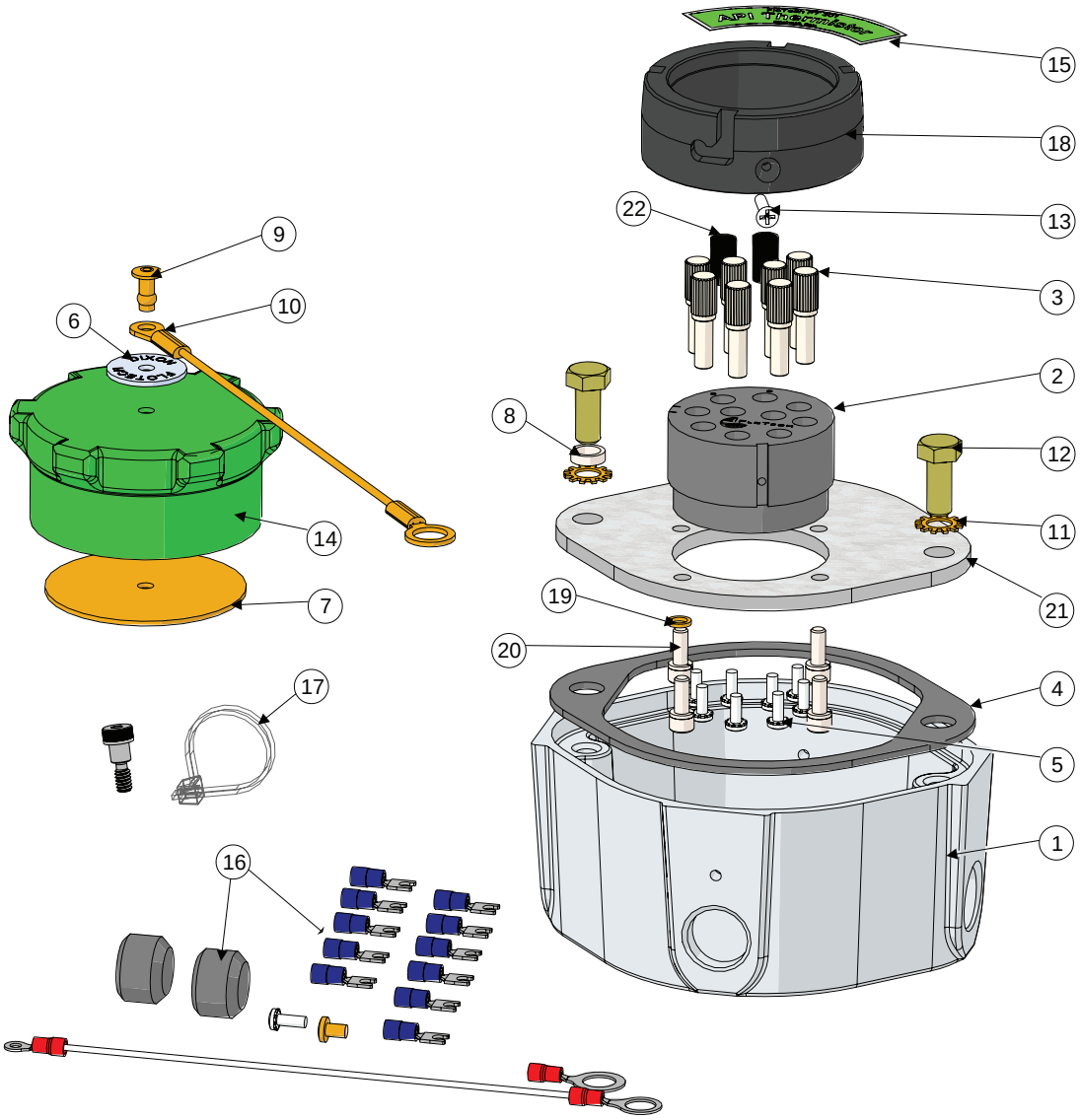
Item #	Description	Part #	FT208P	FT208PP	FT208PPC
1	polypropylene pipe plug	***10103***	6	4	3
2	polyamide strain relief	***10139***	1	1	2
3	jumper - cross connector	***10196***	1	1	1
4	reset switch assembly	***10200A***	1	1	1
5	plastic fuse holder	***10356***	1	1	1
6	brass/glass fuse - 1/2 amp	***10358*** (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	n/a
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)	***10616PLBN***	1	3	3
19	power cable	***10639***	1	1	n/a

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

Fuel Tanker Overfill Detection

Plug-n-Play Stand Alone Sockets FT300P & 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 & 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 132 for image
10605PL	plastic clip	Refer to page 132 for image

Fuel Tanker Overfill Detection

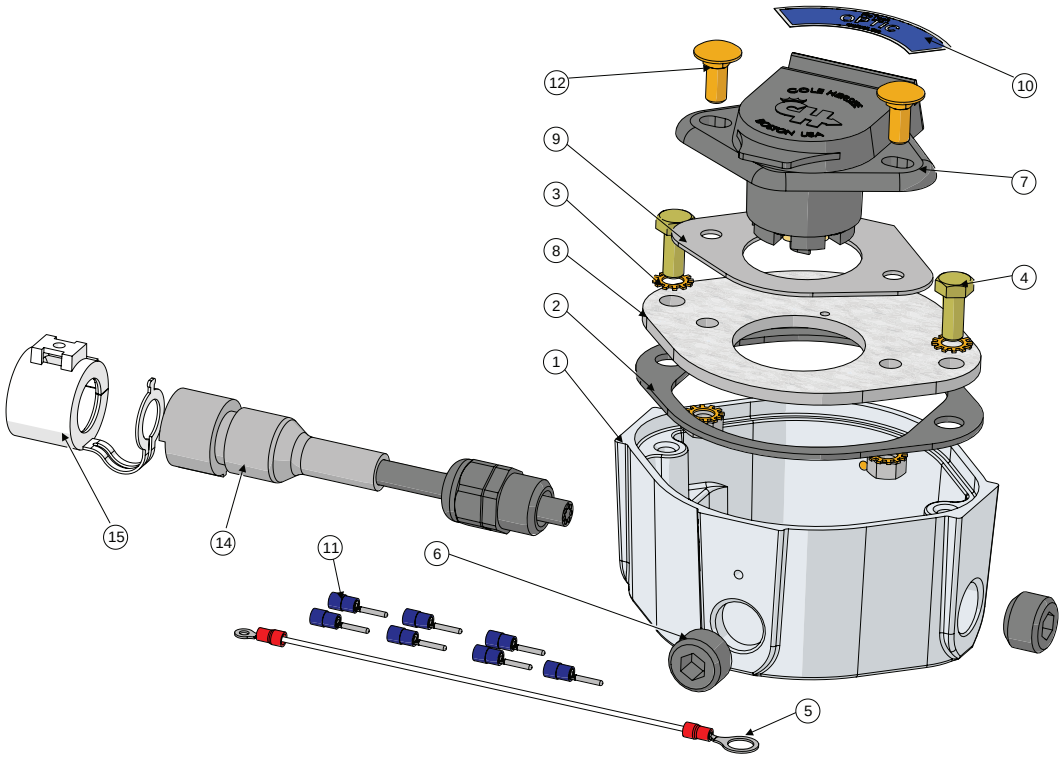
Plug-n-Play Stand Alone Sockets FT300P & FT301P

Bill of Materials

Item #	Description	Part #	FT300P	FT301P	FT310	FT310SS	FT311	FT311SS
1	aluminum housing	***10031*** (was FT9007)	1	1	n/a	n/a	n/a	n/a
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***	n/a	1	n/a	n/a	1	1
14B	vinyl dust cap - optic (blue)	Use cap kit ***FT320***	1	n/a	1	1	n/a	n/a
15A	aluminum name plate - FT300	***10099***	1	n/a	1	1	n/a	n/a
15B	aluminum name plate - FT301	***10100***	n/a	1	n/a	n/a	1	1
16	assembly hardware	***10106***	1	1	1	1	1	1
17	nylon clamp assembly	***10264***	n/a	1	n/a	n/a	1	1
18A	ALH wear ring - 4 J-slot	***10366HC-001*** (was FT9042)	n/a	1	n/a	n/a	1	n/a
18B	ALH wear ring - 3 J-slot	***10366HC-002*** (was FT9041)	1	n/a	1	n/a	n/a	n/a
18C	stainless steel wear ring - 4 J-slot	***10366SS-001*** (was FT9044)	n/a	n/a	n/a	n/a	n/a	1
18D	stainless steel wear ring - 3 J-slot	***10366SS-002*** (was FT9043)	n/a	n/a	n/a	1	n/a	n/a
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	n/a	n/a	n/a	n/a
24	plastic clip	***10605PL***	1	1	n/a	n/a	n/a	n/a

Fuel Tanker Overfill Detection

Plug-n-Play Stand Alone Sockets FT306P-5



Bill of Materials

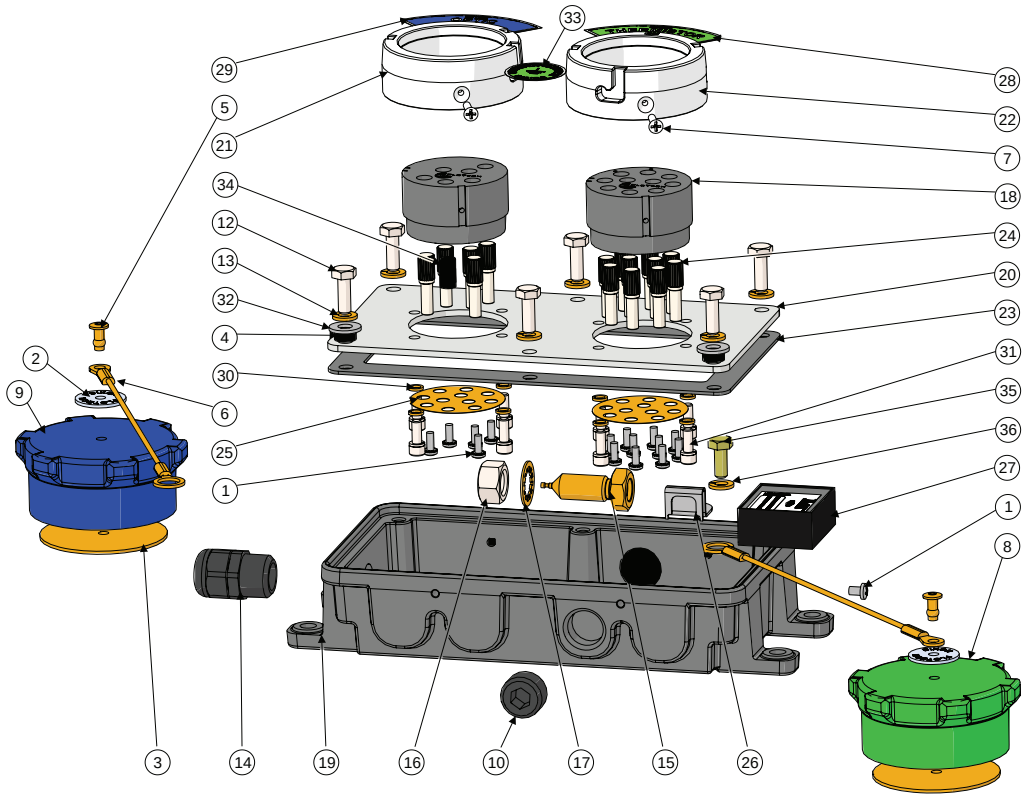
Item #	Description	Part #	FT208P	FT208PPC
1	aluminum housing	***10031*** (was FT9007)	1	n/a
2	neoprene gasket	***10038*** (was FT9032)	1	1
3	stainless steel lock washer	***10092***	4	4
4	stainless steel screw	***10093***	2	2
5	wire, assembly, socket	***10095***	1	1
6	polypropylene pipe plug	***10103***	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	n/a
15	plastic clip	***10605PL***	1	n/a

Repair Kit

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

Fuel Tanker Overfill Detection

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 - ¼"	***10111***	7
14	stainless steel ground bolt	***10223***	1
15	stainless steel nut - ground bolt ½"-13	***10224***	1
16	stainless steel lock washer inter-nal 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

Item #	Description	Part #	Qty
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

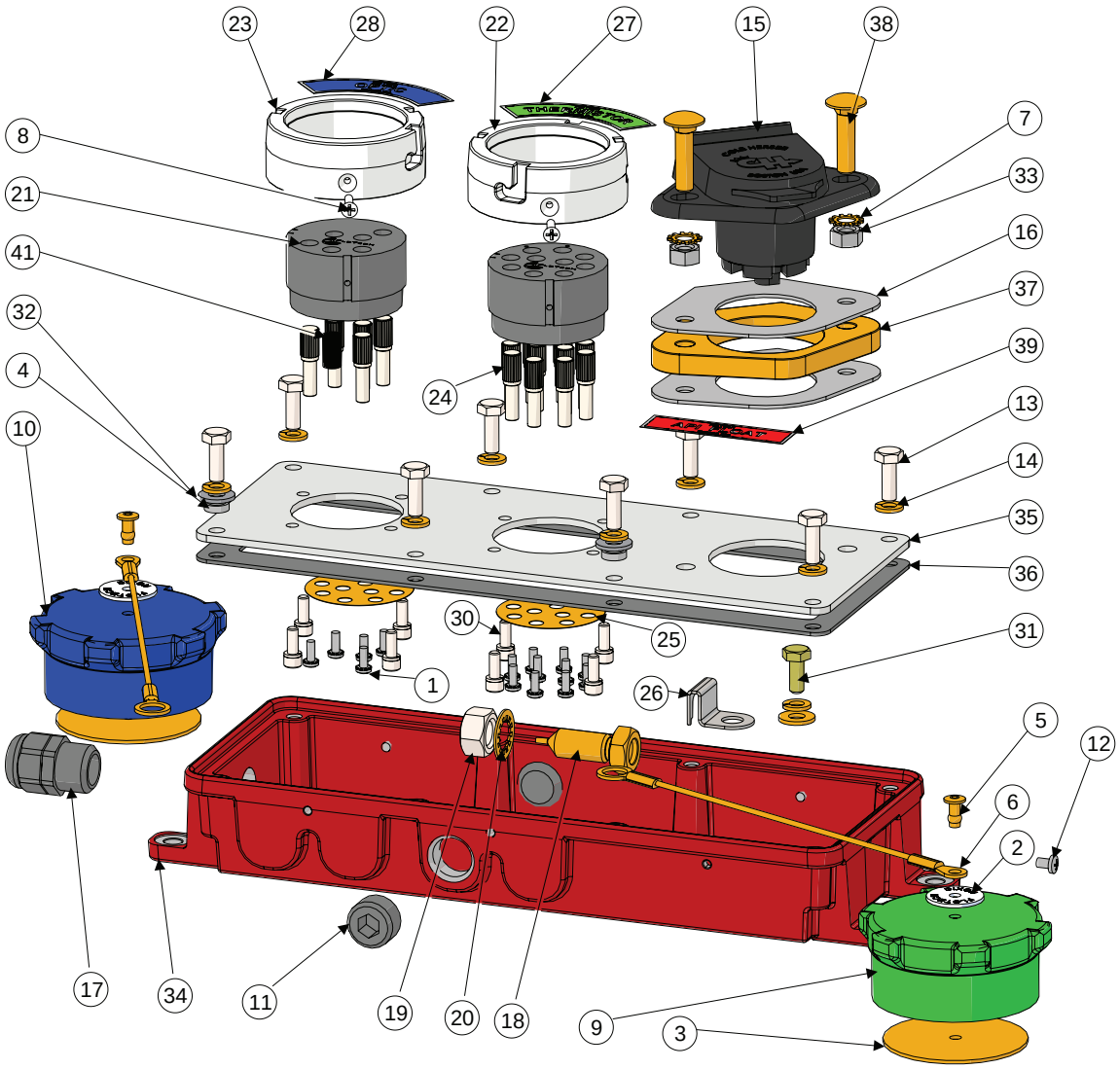
Repair Kits

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 6 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

Overfill Replacement Parts

Fuel Tanker Overfill Detection

Plug-n-Play Stand Alone Sockets
FT394P & 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 6 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

Fuel Tanker Overfill Detection

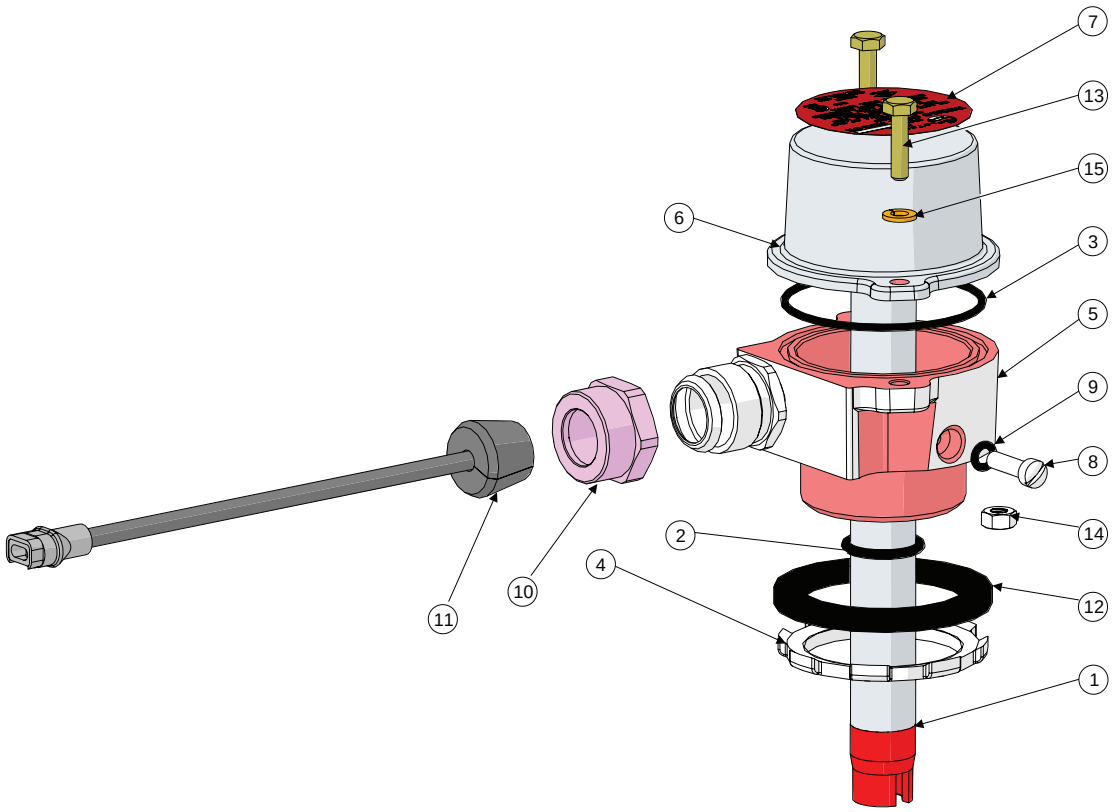
Plug-n-Play Stand Alone Sockets
FT394P & FT395P Series

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 - ¼"	***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***	N/A	N/A	1	1	N/A
19	stainless steel nut - ground bolt ½"- 13	***10224***	N/A	N/A	1	1	N/A
20	stainless steel lock washer internal tooth	***10225***	N/A	N/A	1	1	N/A
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***	N/A	N/A	1	1	N/A
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

Fuel Tanker Overfill Detection

Plug-n-Play Sensors FT151P Series, Overfill Sensor Housings



Bill of Materials

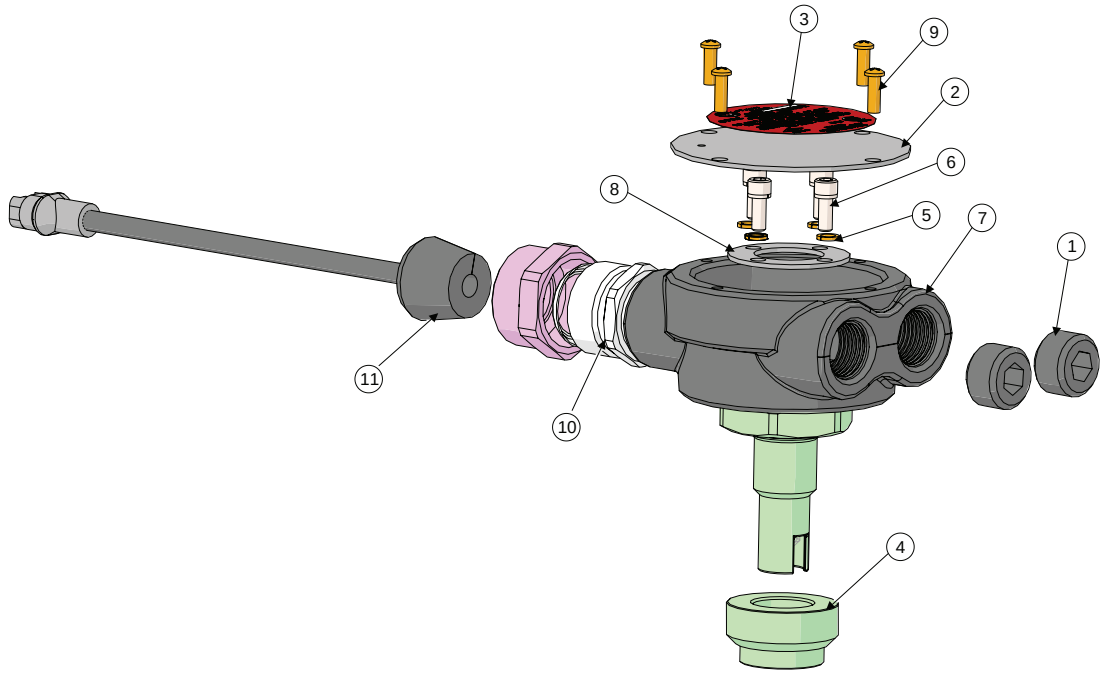
Item #	Description	Part #	Qty
1	assembly sensor, Thermistor-Optic	***10109-PP***	1
2	O-ring	***10125***	1
3	O-ring	***10126***	1
4	lock nut	***10128***	1
5	sensor housing	***10183-P&P***	1
6	sensor housing cap	***10185***	1
7	label	***10204***	1
8	screw with nylon insert	***10212***	1
9	O-ring	***10213***	1
10	cord grip assembly	***10248***	1
11	bushing	***10638***	1
12	gasket	***40090BN***	1
13	screw	***10841SS***	2
14	nut	***10124***	2
15	lock washer - ¼"	***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 & lock washers	3, 9, 13, 14

Fuel Tanker Overfill Detection

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

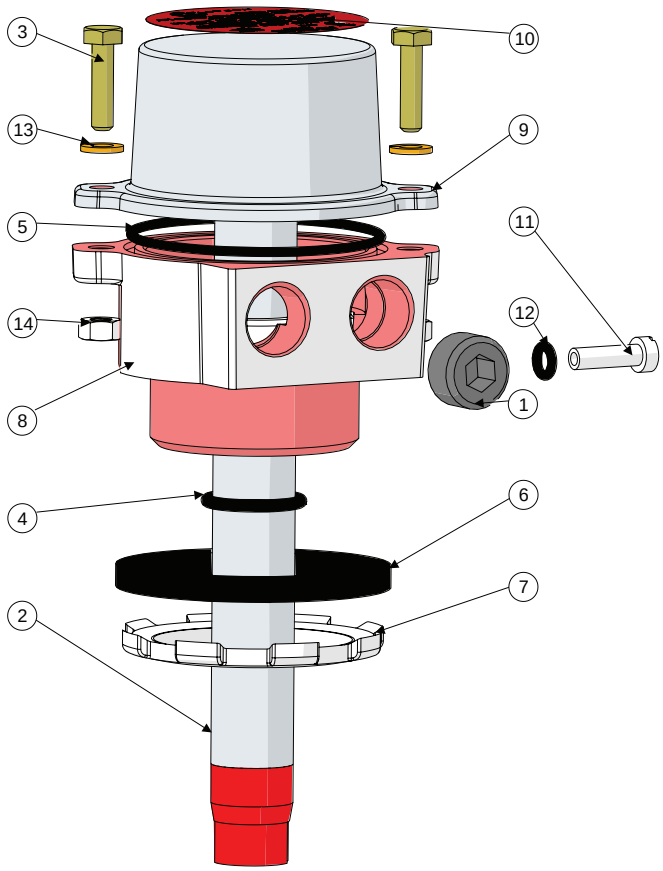
Note: probe is not replaceable, if probe needs replacing, a complete FT152P needs to be ordered.

Fuel Tanker Overfill Detection

FT101, FT151 & 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	***40090BN***	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 - ¼"	***10111***	2
14	nut	***10124***	2

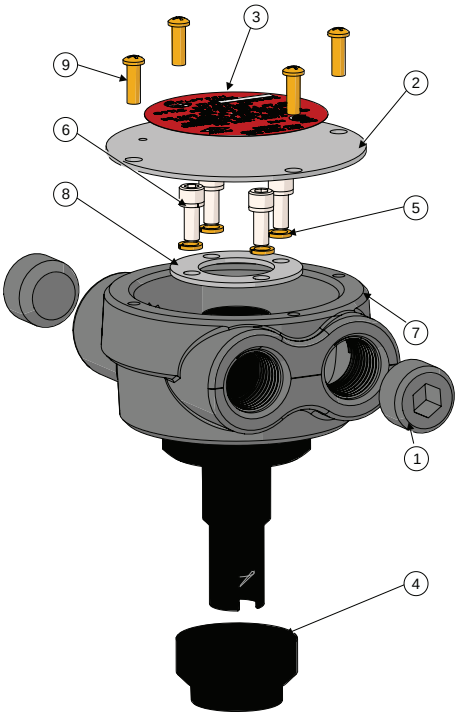


Repair Kits

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 & white 2 wire overfill detection probe, 7"	2
FT150-12	black & white 2 wire overfill detection probe, 12"	2
FT150-18	black & white 2 wire overfill detection probe, 18"	2
FT201	red & black 2 wire overfill detection probe, 7"	2
FT201-12	red & black 2 wire overfill detection probe, 12"	2
FT201-18	red & 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 & lock washers	3, 9, 13, 14

Fuel Tanker Overfill Detection

FT152 & FT206 Retain Sensor Housings



Bill of Materials

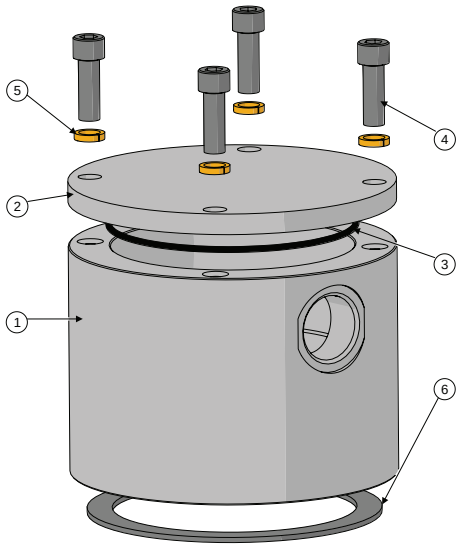
Item #	Description	Part #	Qty
1	polypropylene pipe plug	***10103***	2
2	aluminum retain sensor lid	***10134***	1
3	mylar label - retain sensor	***10343***	1
4	aluminum threaded collar	***10347*** (was FT9050)	1
5	stainless steel lockwasher	***10375SS***	4
6	stainless steel screw	***10376SS***	4
7	nylon 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

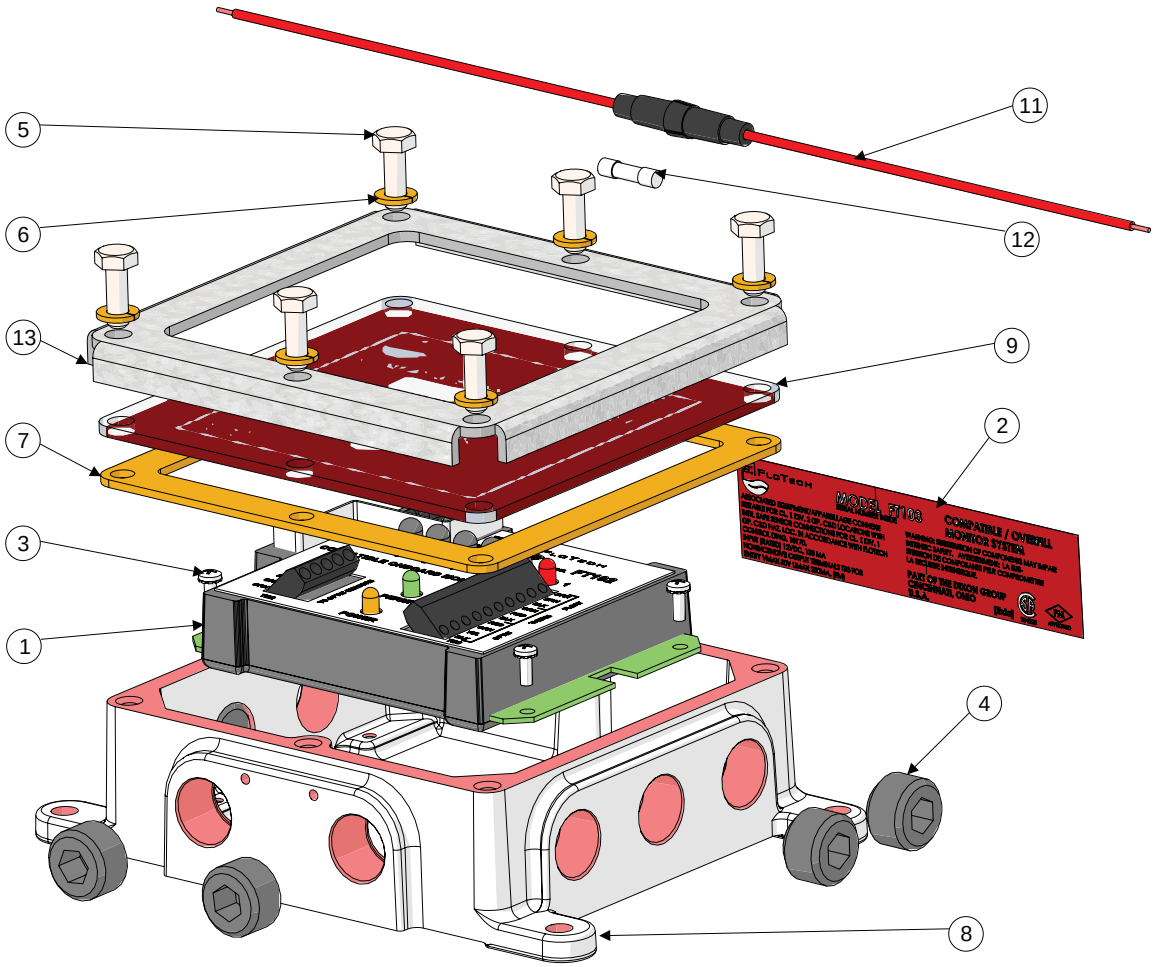
Item #	Description	Part #	Qty
1	3" stainless steel NPSM housing	***10540SS***	1
2	aluminum housing lid	***10541AL***	1
3	Buna-N O-ring	***10542BN***	1
4	stainless steel screw	***10554SS***	4
5	stainless steel lock washer	***40099SS***	4
6	PTFE gasket	***40190TF***	1

Stainless Steel Probes

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

Fuel Tanker Overfill Detection

FT102/FT103 5 Wire, API Optic Onboard Monitors



Bill of Materials

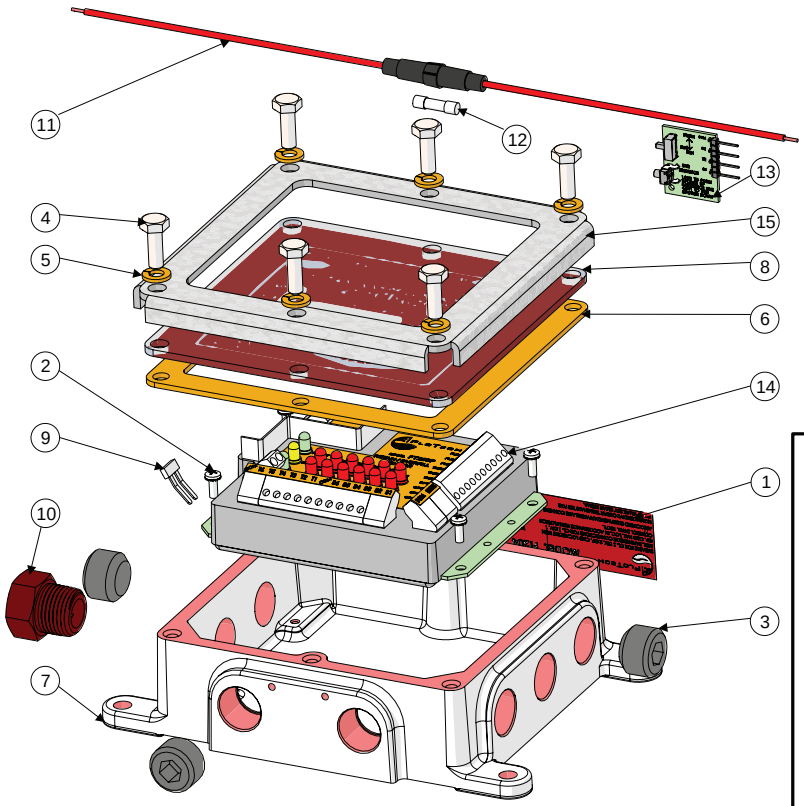
Item #	Description	Part #	FT102	FT103
1	5 wire onboard monitor assembly	***10077***	1	1
2	chrome mylar label	***10079***	n/a	1
3	stainless steel screw	***10086***	4	4
4	polypropylene pipe plug	***10103***	n/a	5
5	stainless steel screw	***10110***	6	6
6	stainless steel lockwasher - ¼"	***10111***	6	6
7	neoprene gasket	***10131*** (was FT9053)	1	1
8	aluminum onboard monitor housing	***10136***	n/a	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

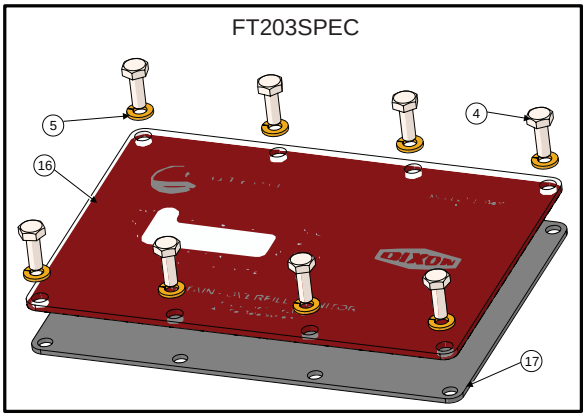
Repair Kits

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

Fuel Tanker Overfill Detection

FT203/FT204 Series ROM Type
Red & Black 2 Wire, Onboard Monitor





Bill of Materials

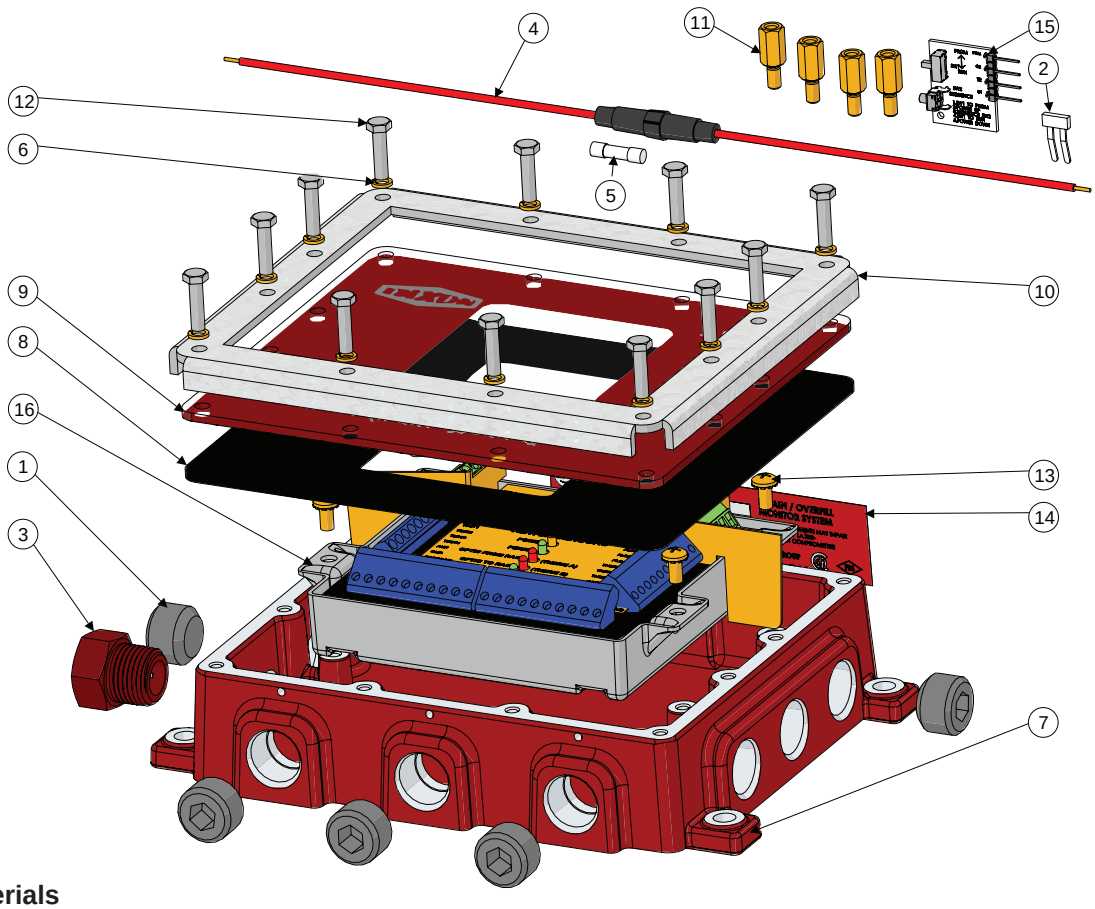
Item #	Description	Part #	FT203P	FT203SPEC	FT204P
1	chrome mylar label	***10078***	n/a	n/a	1
2	stainless steel screw	***10086***	4	4	4
3	polypropylene pipe plug	***10103***	n/a	n/a	3
4	stainless steel screw	***10110***	6	8	6
5	stainless steel lock washer - ¼"	***10111***	6	8	6
6	neoprene gasket	***10131*** (was FT9053)	1	n/a	1
7	aluminum onboard monitor housing	***10136***	n/a	n/a	1
8	acrylic bezel	***10143*** (was FT9006)	1	n/a	1
9	jumper - cross connector	***10196***	1	1	1
10	reset switch assembly	***10200A***	n/a	n/a	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	n/a	1
16	bezel for Civacon 3250 & 3252 boxes	***10520PL***	n/a	1	n/a
17	neoprene gasket for 10520PL	***10521NP*** (was FT9065)	n/a	1	n/a

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

Fuel Tanker Overfill Detection

FT207/FT208 Series Checkmate Black & White 2 Wire, Programmable Onboard Monitor



Bill of Materials

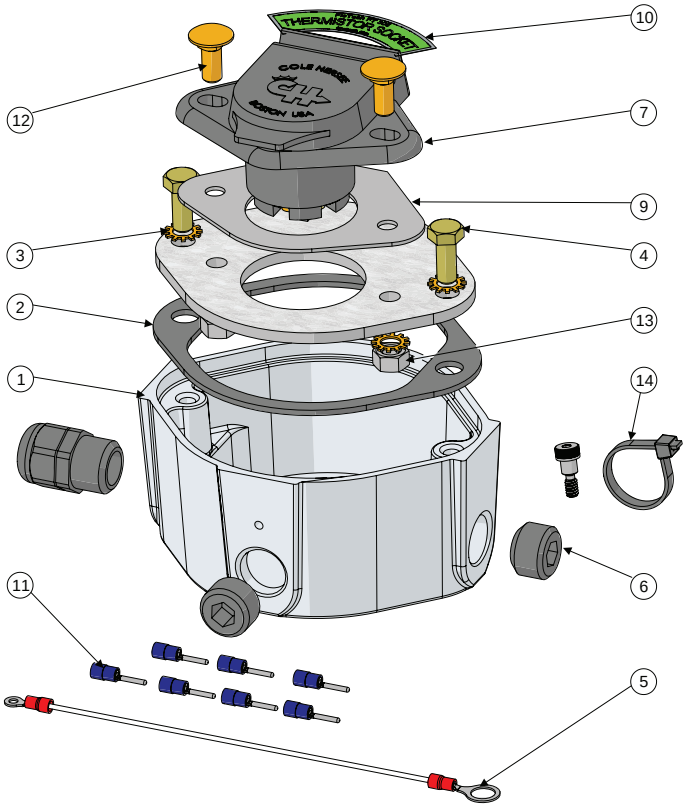
Item #	Description	Part #	FT207	FT208
1	polypropylene pipe plug	***10103***	n/a	5
2	jumper - cross connector	***10196***	1	1
3	reset switch assembly	***10200A***	n/a	1
4	plastic fuse holder	***10356***	1	1
5	brass/glass fuse - 1/2 amp	***10358*** (was FT9039)	1	5
6	stainless steel lock washer	***10375SS***	12	12
7	aluminum box	***10430AL***	n/a	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***	n/a	4
12	stainless steel screw	***10436SS***	12	12
13	stainless steel screw - stems	***10437SS***	4	4
14	chrome mylar label	***10438A***	n/a	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 & lockwashers	6, 8, 9, 10, 12
FT9040	Checkmate housing with lid	1, 6-13

Fuel Tanker Overfill Detection

Single J560 Sockets



Bill of Materials

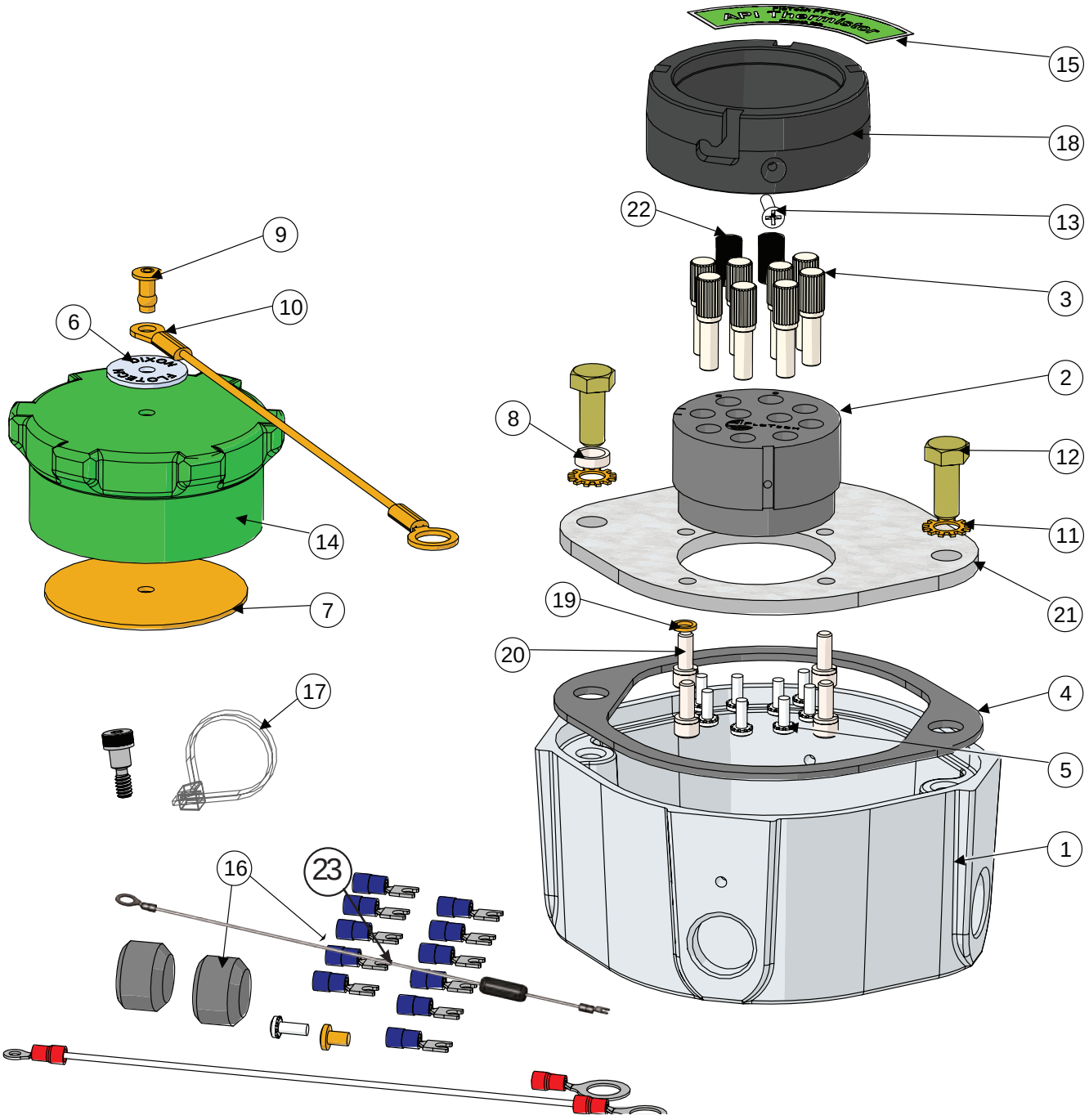
Item #	Description	Part #	FT302	FT305	FT306	FT312	FT315	FT316
1	aluminum housing	**10031** (was FT9007)	1	1	1	n/a	n/a	n/a
2	neoprene gasket	**10038** (was FT9032)	1	1	1	1	1	1
3	stainless steel lock washer	**10092**	4	4	4	4	4	4
4	stainless steel screw	**10093**	2	2	2	2	2	2
5	wire, assembly, socket	**10095**	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	n/a	n/a	n/a	n/a	n/a
10B	aluminum name plate - optic	**10235**	n/a	n/a	1	n/a	1	1
10C	aluminum name plate - thermistor	**10244**	n/a	1	n/a	n/a	n/a	n/a
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**	n/a	1	n/a	n/a	1	n/a

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

Fuel Tanker Overfill Detection

FT30x Series Single J-slot Sockets



Fuel Tanker Overfill Detection

FT30x Series Single J-slot Sockets

Bill of Materials

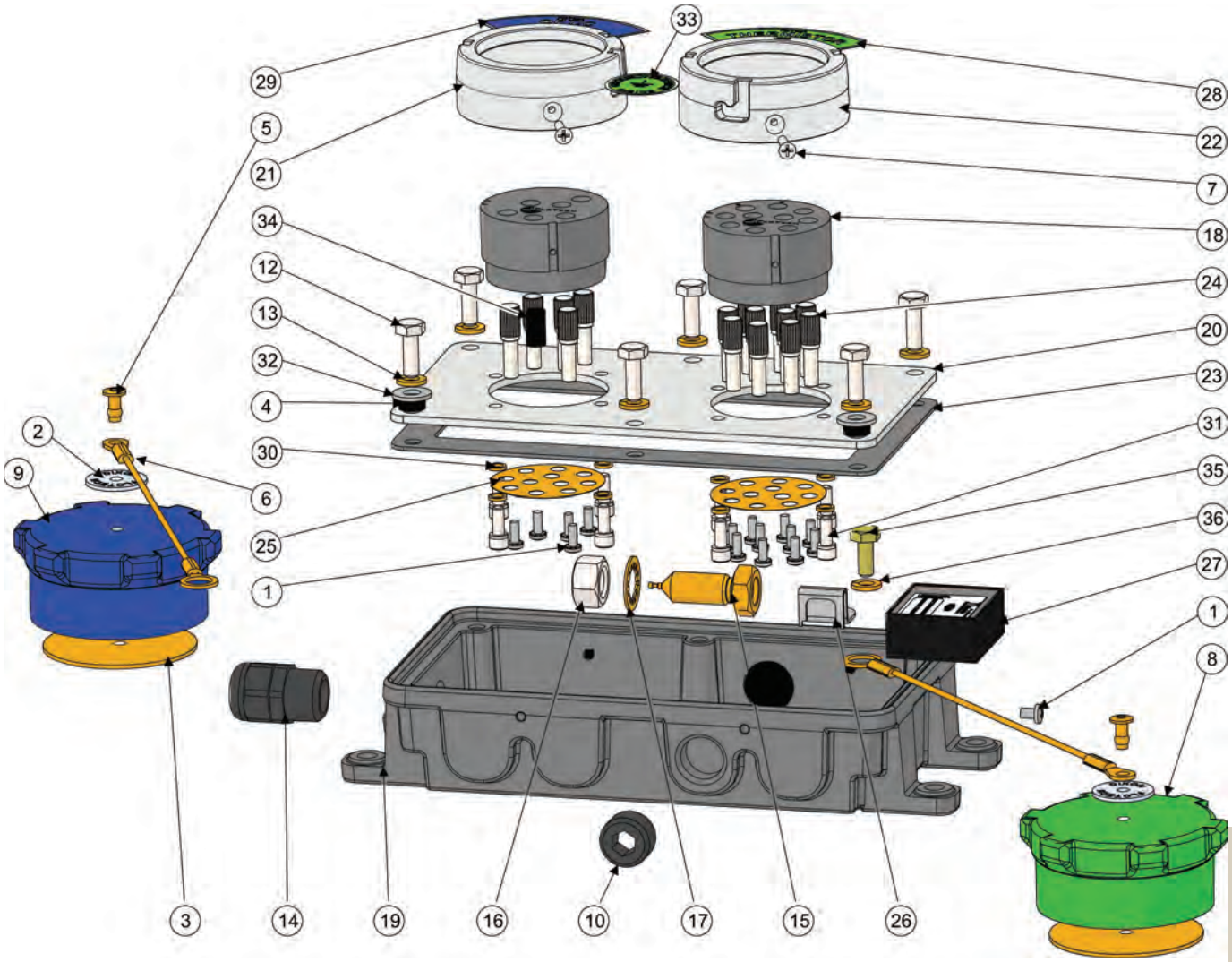
Item #	Description	Part #	FT300	FT300SS	FT300GW	FT301	FT301SS	FT303	FT303SS	FT304	FT304SS	FT307	FT307SS	FT310	FT310SS	FT311	FT311SS	FT313	FT313SS	FT314	FT314SS	FT317	FT317SS
1	aluminum housing	***10031*** (was FT9007)	1	1	1	1	1	1	1	1	1	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2	plastic contact block	***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***	n/a	n/a	n/a	1	1	n/a	n/a	1	1	n/a	n/a	n/a	n/a	1	1	n/a	n/a	1	1	n/a	n/a
14B	vinyl dust cap - optic (blue)	Use cap kit ***FT320***	1	1	1	n/a	n/a	1	1	n/a	n/a	1	1	1	1	n/a	n/a	1	1	n/a	n/a	1	1
15A	aluminum name plate - FT300	***10099***	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
15B	aluminum name plate - FT301	***10100***	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a	n/a	n/a
15C	aluminum name plate - FT303	***10228***	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a
15D	aluminum name plate - FT304	***10101***	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a
15E	aluminum name plate - FT307	***10283***	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	1
15F	aluminum name plate-FT300GW	***10099-002***	n/a	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
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***	n/a	n/a	n/a	1	1	n/a	n/a	1	1	n/a	n/a	n/a	n/a	1	1	n/a	n/a	1	1	n/a	n/a
18A	ALH wear ring - 4 J-slot	***10366HC-001*** (was FT9042)	n/a	n/a	n/a	1	n/a	1	n/a	1	n/a	1	n/a	n/a	n/a	1	n/a	1	n/a	1	n/a	1	n/a
18B	ALH wear ring - 3 J-slot	***10366HC-002*** (was FT9041)	1	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
18C	stainless steel wear ring - 4 J-slot	***10366SS-001*** (was FT9043)	n/a	n/a	n/a	n/a	1	n/a	1	n/a	1	n/a	1	n/a	n/a	n/a	1	n/a	1	n/a	1	n/a	1
18D	stainless steel wear ring - 3 J-slot	***10366SS-002*** (was FT9044)	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
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***	n/a	n/a	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

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,1921
FT9020	socket pin, screw and crimp lug	3, 5
FT9034	faceplate 3 J-slot, (without contact block and hardware)	4, 15A,18B, 1921

Fuel Tanker Overfill Detection

FT390/FT391 Series EZ-Cept Double Sockets



Fuel Tanker Overfill Detection

FT390/FT391 Series EZ-Cept Double Sockets

Bill of Materials

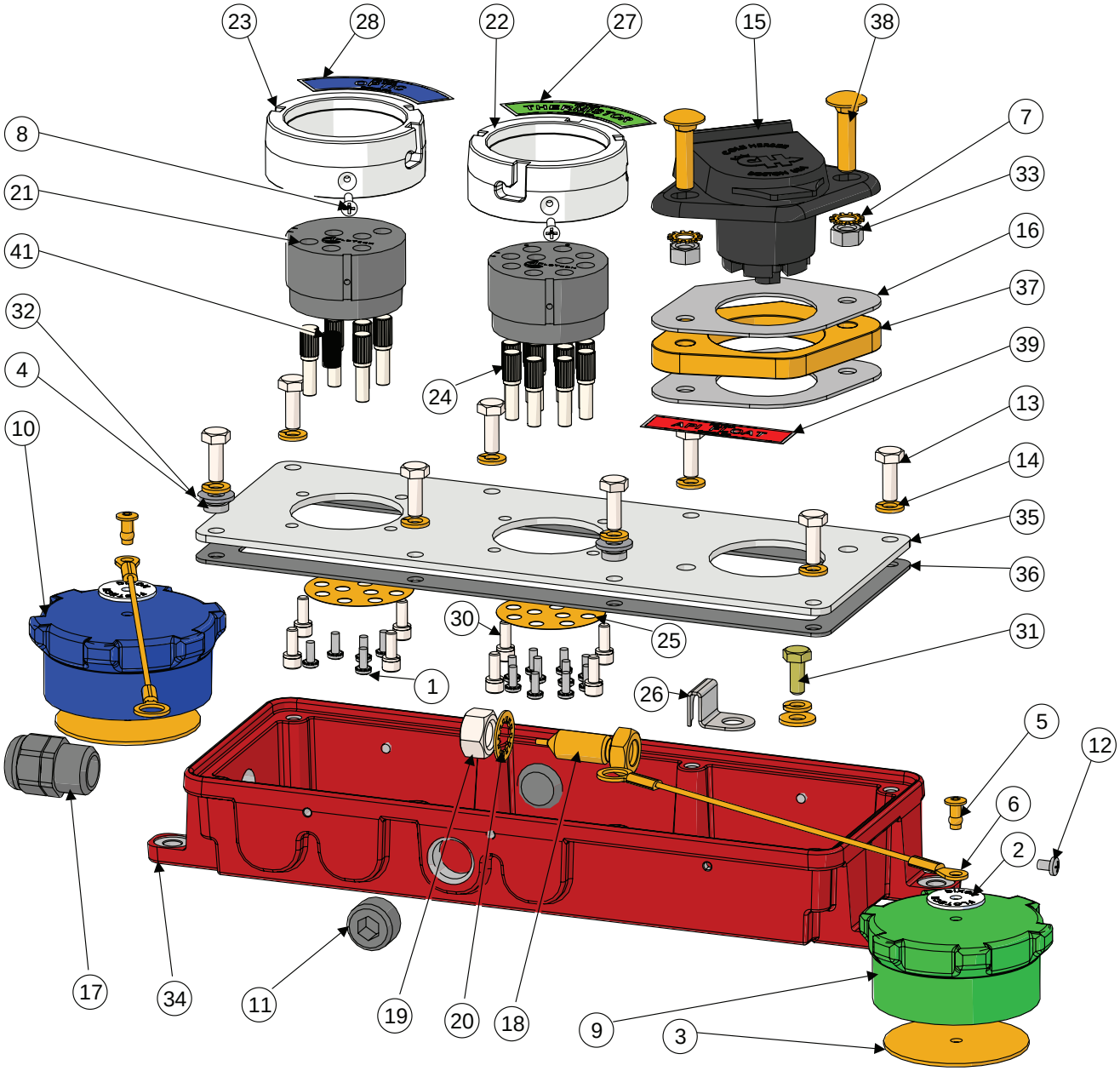
Item #	Description	Part #	FT390	FT390V	FT390G	FT390GT	FT390T	FT390-20	FT390G-20	FT391	FT391V
1	stainless steel screw	***10086***	16	16	16	16	16	16	16	16	16
2	aluminum name plate - socket washer	use kit ***FT320 or FT321***	2	2	2	2	2	2	2	2	2
3	aluminum washer 2.500 x .0625	use kit ***FT320 or FT321***	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***	n/a	n/a	1	1	n/a	n/a	1	n/a	n/a
16	stainless steel nut - ground bolt 1/2"-13	***10224***	n/a	n/a	1	1	n/a	n/a	1	n/a	n/a
17	stainless steel lock washer internal tooth	***10225***	n/a	n/a	1	1	n/a	n/a	1	n/a	n/a
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	n/a	n/a
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)	16	16	16	16	16	16	16	16	16
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***	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a
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***	n/a	n/a	1	1	n/a	n/a	1	n/a	n/a
34	plastic black button insert	***BLACK BUTTON INSERT***	6	6	6	6	6	6	6	6	6
35A	stainless steel screw	***10110***	n/a	n/a	n/a	1	1	n/a	n/a	n/a	n/a
35B	stainless steel screw	***10377SS***	1	1	1	N/a	N/a	1	1	1	1
36	stainless steel lock washer - ¼"	***10111***	1	1	1	1	1	1	1	1	1
not illustrated	20' cable, factory wired to sockets	***10387-20***	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a

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 6 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

Fuel Tanker Overfill Detection

FT393/394/395 Series EZ-Cept Triple Sockets



Fuel Tanker Overfill Detection

FT393/394/395 Series EZ-Cept Triple Sockets

Bill of Materials

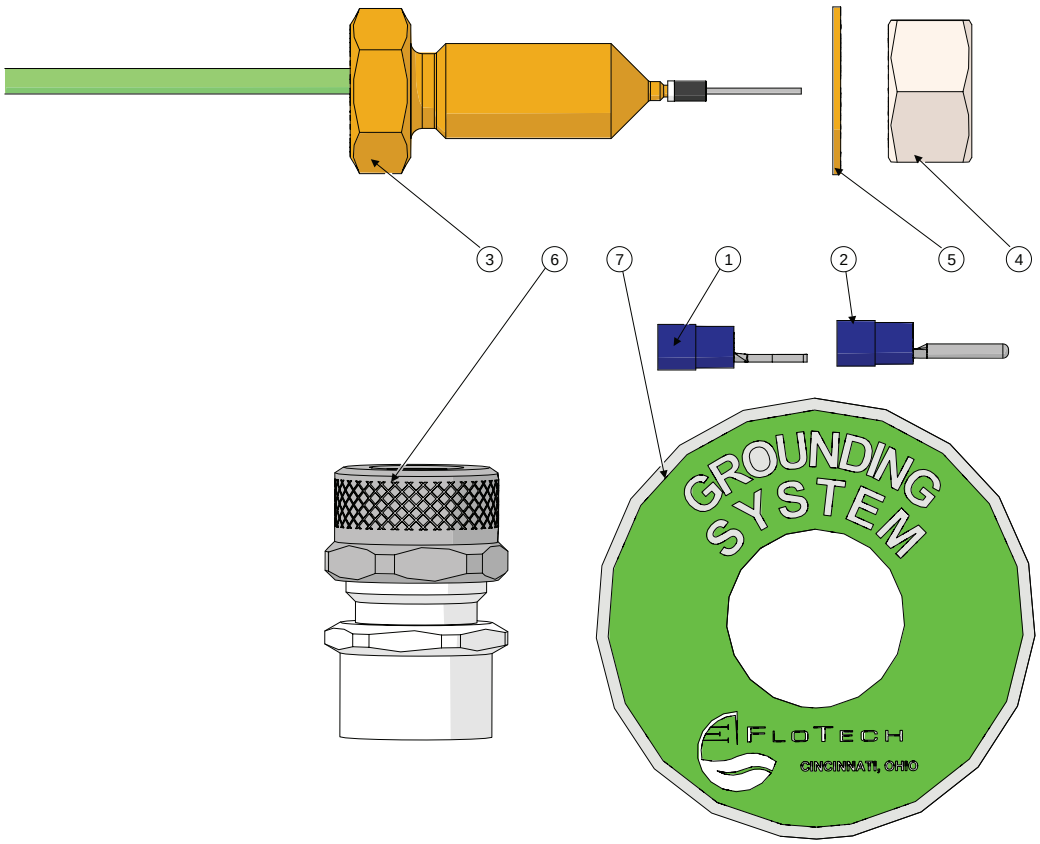
Item #	Description	Part #	FT393	FT394	FT394G	FT394V-G	FT395	FT395V	FT395G	FT395V-G
1	stainless steel screw	**10086**	16	16	16	16	16	16	16	16
2	aluminum name plate - socket washer	**10087**	2	2	2	2	2	2	2	2
3	aluminum washer 2.500 x .0625	use kit **FT320 or FT321**	2	2	2	2	2	2	2	2
4	stainless steel spacer	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 - ¼"	**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**	n/a	n/a	1	1	n/a	n/a	1	1
19	stainless steel nut - ground bolt ½"- 13	**10224**	n/a	n/a	1	1	n/a	n/a	1	1
20	stainless steel lock washer internal tooth	**10225**	n/a	n/a	1	1	n/a	n/a	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	n/a	n/a	n/a	n/a
24	stainless steel socket pin - short	**10368SS** (was FT9061)	16	16	16	16	16	16	16	16
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**	n/a	1	1	1	1	1	1	1
39B	aluminum name plate - float (red)	**10531AL**	1	n/a	n/a	n/a	n/a	n/a	n/a	n/a
40	aluminum label - ground bolt	**10621AL**	n/a	n/a	1	1	n/a	n/a	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 6 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

Fuel Tanker Overfill Detection

FT450 Ground Bolt



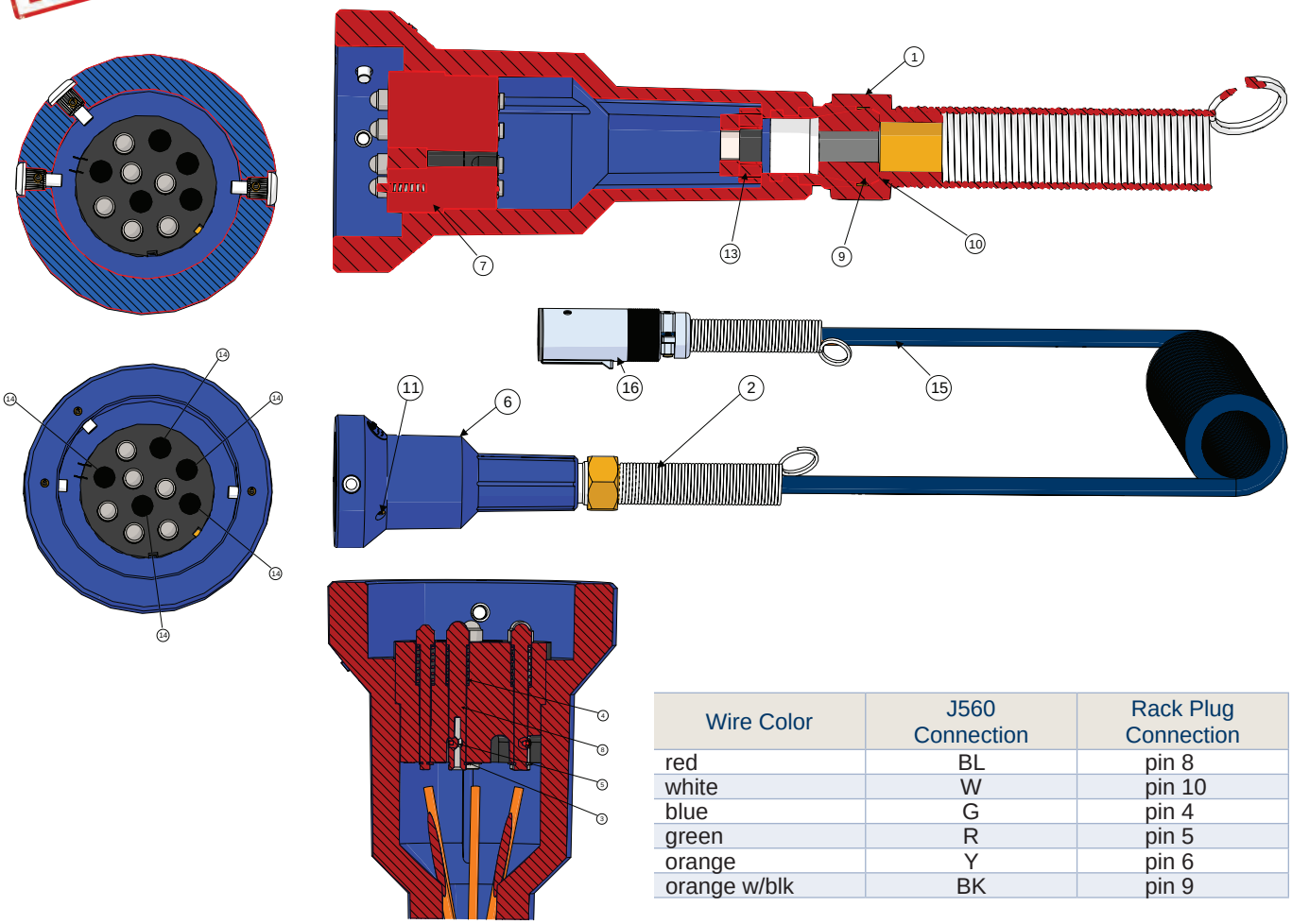
Bill of Materials

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 ½" - 13	***10224***	1
5	stainless steel lock washer internal tooth	***10225***	1
6	strain relief ½" NPT	***10229***	1
7	aluminum label - ground bolt	***10562***	1

Fuel Tanker Overfill Detection

Rack Cords-FT620P

NEW



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 w/blk	BK	pin 9

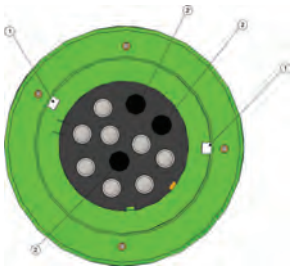
Overfill Replacement Parts

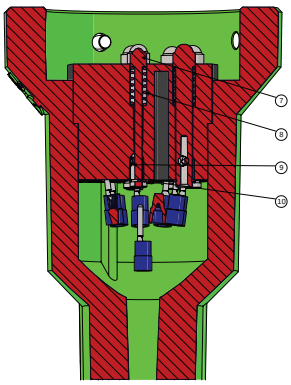
Bill of Materials

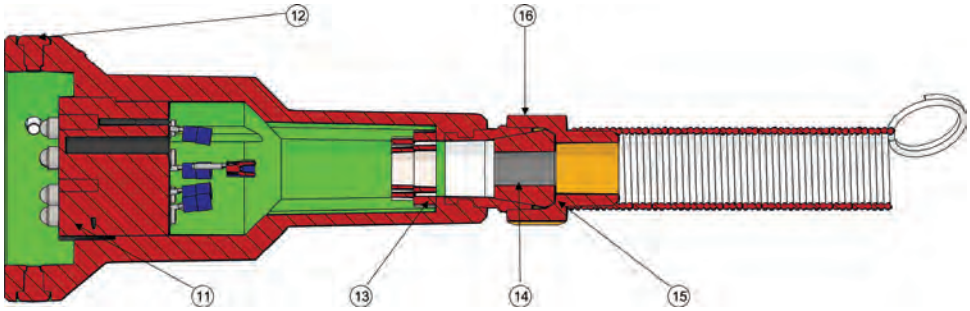
Item #	Description	Part #	Qty	Material
1	strain relief nut	***10249***	1	aluminum
2	spring	***10250***	1	stainless steel
3	retaining ring	***10252***	6	steel
4	spring	***10253***	6	stainless steel
5	set screw	***10260***	6	stainless steel
6	body	***10523NY-003***	1	nylon
7	contact block-long	***10524PL-001***	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

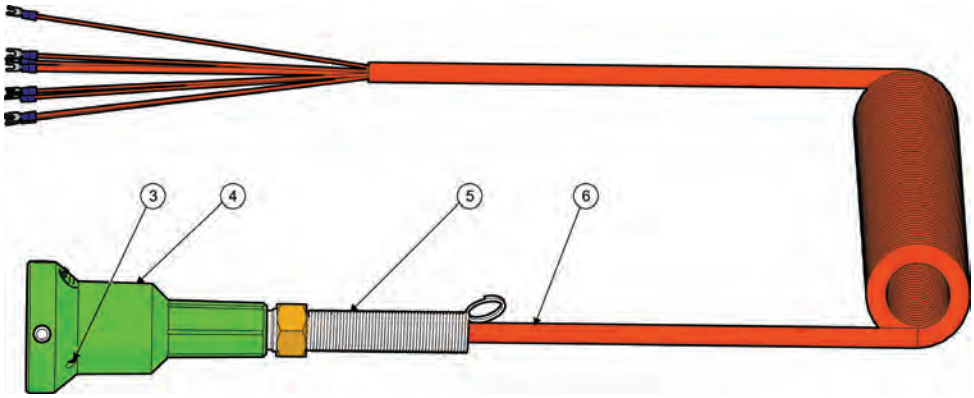
Fuel Tanker Overfill Detection

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	n/a	n/a
4B	blue "optic" glass reinforced nylon plug body	10523NY-003	n/a	n/a	n/a	n/a	1	1
5	stainless, cable bend restrictor spring	10250	1	1	1	1	1	1
6A	thermistor cable assembly 30' coiled (US)	10259	1	n/a	n/a	n/a	n/a	n/a
6B	thermistor cable assembly 30' coiled (Canada)	10259-C	n/a	1	n/a	n/a	n/a	n/a
6C	thermistor cable assembly 20' straight (US)	10259-S	n/a	n/a	1	n/a	n/a	n/a
6D	thermistor cable assembly 20' straight (Canada)	10259-CS	n/a	n/a	n/a	1	n/a	n/a
6E	optic cable assembly 30' coiled (US)	10290	n/a	n/a	n/a	n/a	1	n/a
6F	optic cable assembly 30' straight (US)	10290-S	n/a	n/a	n/a	n/a	n/a	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	n/a	n/a
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 2 J-slot (US)	1-4A,5, 7-11,14-16
FT601-4	green plug assembly with 8 contact pins and 4 J-slot	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

Description Index

A

Adapters
- 150# flange 25
- API drop 7
- Bayonet style 28
- Female NPS vapor 25
- Female NPT 24, 28
- Gravity drop 8
- In-Ground tank 17
- Jump size female NPT 25
- Side seal to top seal 15
- Tank cabinet "Dummy" Weld-on 15

Air interlock valves 21

API
- Clamps 31
- Couplers 30
- Drop adapters 7
- Dust caps 7, 8
- Flange gaskets 12
- Gaskets 12
- Loading rack cords 63
- Optic cord assemblies 63
- Thermistor cord assemblies 63
- Valves 6

B

Breakaways 37

Bulk delivery 33, 34

C

Cables and strain reliefs 60

Cam and groove 11, 26, 27

Caps
- Automatic pressure/vacuum relief 38
- In-ground tank 17
- Orange vapor 19
- Tanker pipe 22
- Vent, Stationary tank 38

Clamps 31

Competitor cross reference charts
- API rack cords 66, 71
- Hardware & system testers 71
- Liquid level sensors 70
- Onboard systems 72, 73
- Sockets 71

Couplers 27
- Bayonet style 28
- Female NPT 27
- Female NPT, greaseless 26
- Female NPT swivel 26

Couplings
- Bayonet style 28
- Dry disconnects ..... 24, 26 - 28
- Vapor hose 20

D

Drop adapters 7, 8

Dry disconnects ..... 24 - 29
- Adapters 24, 25, 28

Dry Disconnects
- Bayonet 28, 29
- Cam and Groove 24, 26
- Cam and Groove D2C 27

Dust caps 7, 8, 55, 56

Dust plugs with handle 7

E

Elbows
- 6200 and 6500 Series 13
- Dual point 18
- Fuel delivery ..... 13 - 15
- Height extensions 15
- Inlets 14
- Side seal 14
- Single point coaxial 16
- Vapor recovery 16, 18

F

Flanges
- 150# adapter 25
- Cam and groove 11
- Gaskets 12
- Reducers 12
- Sight flow indicator 9, 10
- TTMA 30

FloTech

2 Wire systems ..... 46 - 49
5 Wire systems 52, 53
API optic 5 wire 52, 53
Onboard monitors 53
Overfill sensors 53
Replacement probes 53
Checkmate overfill detection systems
Overfill detection sensors 47
Top and bottom detection 46
Top detection only 46
Checkmate overfill/retain plug-n-play system .. 41 - 45
Monitors, integrated dual sockets 41, 42
Monitors, stand alone 43
Socket assemblies, stand alone 43
Checkmate overfill/retain system 47
Monitors 47
Replacement probes 47
Retain sensors 47
FT151RL ROM Link 51
Junction boxes 64
Monitors ..... 41 - 43, 47, 49
Monitors, Rack control 65
Plug-n-Play System ..... 41 - 45
Probe and sensor housing 54
Replacement parts 68, 69
ROM type overfill detection 48
Monitors 49
ROM type overfill/retain detection 48
Replacement probes 49, 51
Sensors 50
Sensors 53
Checkmate, Plug-n-Play 44
Overfill detection replacement
API Optic 5 wire 53
Black & white 2 wire 47
Red & black 2 wire 49
Retain 44, 47
ROM Link™ 51
ROM type
Retain 50
Sockets
Dual integrated 41, 42
EZ-Cept
Double 57
Triple 59
Single
Aluminum hardcoat J-slot 55
GFL J-slot wear rings 56
Socket profiles 74
Stand alone assemblies 43
Trailer identification module 60, 61
Truck testers 61, 62
Wiring harnesses 45
Fuel compatibility chart 4
Fuel delivery ..... 13 - 18
6200 and 6500 Series 13
Anti spill tubes 14
Coaxial elbow-replacement
fuel inlets and vapor outlets 15
Connectors 14
Elbow height extensions 15
Elbow inlets 14
Elbows 13
Adapters 15
Fuel station 17
Side seal 14
Single point coaxial elbows 16
Straight drop 14
Tank cabinet dummy weld-on 15
Fuel nozzles ..... 32 - 36
Fuel tanker ..... 10 - 12, 22, 23, 30, 31
Ball valves 22
Hose tube doors 22
Pipe caps 22
Static grounding balls 22
Fuel tanker loading and unloading ..... 6 - 9
Fuel tanker overfill detection ..... 40 - 75
Fuel vapor recovery ..... 18 - 21

G

Gaskets
Clamp 31
Flange 12
Gravity drop adapter 7, 8
Grounding balls 22, 59
Grounding bolt 59

H

Hose tube doors 22
Housing, Probe & sensor 54

I

In-ground tank adapters 17

J

Junction boxes 64
Assembly accessories 64

L

Loading rack cords 63

M

Monitors
5 Wire systems 52
Black & white 2 wire systems 46, 47
Rack control 65
Red & black 2 wire systems 48, 49, 50
ROM type onboard 49
Stand alone 43
w/Integrated dual sockets 41, 42
Wiring harnesses 45

N

Nozzles
Breakaways 37
Spouts 33, 34, 35
Swivels 36
Nozzles, Fuel
Aircraft over wing 36
Ball 34
Big Mouth™ Diesel 32
Bulk delivery 33, 34
DEF auto shutoff 32
Farm and consumer 32
Fueler 100™ auto diesel 33
Fuel Master™ Diesel 32
Pressure 33, 35

O

Optic system testers 61
Overfill detection
API Optic 52, 53
Checkmate ..... 41 - 47
ROM type ..... 48 - 51

P

Plug-n-Play System ..... 41 - 45
Probes 40, 44, 47, 49, 53, 54
Product indicators 10

R

Replacement parts
500AV and 525AV angle valves 131
4020-CVR-AL Vapor hose couplers 96
4500 Series 82
Replacement parts (continued)
4530 and 4540 Series 81
5000-2 API dust caps 79
5000-24L 80
5200-SFI Series 83
5204 Series 77, 78
5205 API dust caps 79
5300/5400 Series 76, 77, 78
6000AS Series 88
6000-SSA Series 88
6303 and 6304 Series 86
6400 Series 87
Aircraft over wing nozzles 128
Air interlock valves 102, 103, 104, 105
API optic onboard monitors 149
BA/BS/BSS series bayonet style
dry disconnects 124, 125
BL ball nozzles 132, 133
BL super ball nozzles 134, 135
Bulk delivery nozzles 126, 127
Caps
Bronze 93
Nylon vapor 93
Checkmate onboard monitor 152
D2C cam and groove actuator style
dry disconnects 120
DBAF cam and groove dry disconnects
Stainless flange adapters 109
DBC cam and groove dry disconnects
Aluminum and stainless couplers ..... 110 - 117
DBS 90° swivel cam and groove
dry disconnects 118, 119
DBVA cam and groove dry disconnects
Stainless vapor adapters 108
"D" handle elbows 84
Drop elbow inlets 83
Dry disconnect bayonet style
Adapters 121
Couplers 122, 123
Dust caps with handle 105
EZ-Cept sockets ..... 155 -158
Gravity nozzles 129
Ground bolt 159
Hose shank and check valve swivels 131
Outbreating and Inbreathing vents 101
Plug-n-Play monitors
with integrated dual sockets 136, 137
Plug-n-Play sensors & housings 145, 146
Plug-n-Play stand alone monitors 138
Plug-n-Play stand alone sockets ..... 139 - 144
Rack cords 160, 161
ROM type onboard monitor 150
Sensor housings 147, 148
Sequential vapor vents
VR6030SQ Series 99
VR6035SQ Series 100

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at GRP@goodyearrubberproducts.com

Replacement parts (continued)
Side lever elbows 85, 86
Sockets ..... 152 - 158
Swivels 32
Tube doors 102
Utility nozzles 129
Vapor adapters
VR4086 Series 95
Vapor elbows
VR6000NP Series 92
VR6100 Series 89
VR6200 Series 90
VR6500 Series 91
Vapor hose couplers
VR3000AL 98
VR4030CS-AL 96
VR4030CS-NP 98
VR4040CS-AL & VR4040CS-4MNPT 97
VR4100F-SFI 95
Vapor hose valves 94, 95

S

SA4050AL Series 93
Sensor dummy59
Sensor housings 54
Sensors ..... 40, 44, 46 - 54
Sight flow indicators 9, 10
Sockets
Dual 41, 42
EZ-Cept Double 57
EZ-Cept Triple 58
Single 55, 56
Socket profiles 74, 75
Stand alone 43
Triple 58
Static discharge reels 67
Static grounding balls 22
Swivels 36

T

Testers
Optic system 61
Rack monitor 62
Truck 62
Trailer identification module chip readers 60
Trailer identification modules 60
TTMA
Butterfly valve spacers 12
Flanged cam and groove 11
Flanged sight flow indicators 9, 10
Flange reducers 12
Flanges 11
Gaskets 12

V

Valves
Air interlock
Heavy Duty 21
Standard 21
API
Load only 6
Load/unload 6
Ball
One way full flow 23
Two way 3 port diverting 23
Vapor return 19
Vapor recovery ..... 16 - 21
Dual point elbows 18
Elbows 16, 18
Hose couplings 19
Single point coaxial elbows 16
Vent caps 38
Vents, Outbreathing & inbreathing 20

Part Number Index

0387P-OP....141
100202....104
10031....143, 154, 156
10038....143, 154, 156
10077....151
10078....152
10079....151
10086....139, 144, 146, 151, 152, 156, 158, 160
10087....146, 160
10089....139, 144, 156, 158
10092....143, 146, 154, 156, 160
10093....143, 154, 156
10094....139, 144, 146, 156, 158, 160
10095....143, 154
10099....156
10099-002....156
100AV-12....130
100AV-15....130
100AV-17....130
10100....156
10101....156
10102....161
10103....139, 140, 143, 144, 146, 148, 149, 150, 151, 152, 153, 154, 158, 160
10105....144, 146, 158, 160
10106....156
10107A....149
10109-PP....147
10110....139, 144, 146, 151, 152, 158, 160
10111....121, 139, 144, 146, 147, 149, 151, 152, 158, 160
10119....143, 146, 154, 160
10120....143, 154
10121....143, 146, 154, 160
10122....154
10123....143, 154, 161
10124....147, 149
10125....147, 149
10126....147, 149
10128....147, 149
10131....151, 152
10134....148, 150
10136....151, 152
10139....139, 140, 146, 158, 160
10142....151
10143....152
10183....149
10183-P&P....147
10185....147, 149
10196....139, 140, 152, 153
10200A....139, 140, 152, 153
10203....149
10204....147
10207....151
10212....147, 149
10213....147, 149
10223....144, 146, 158, 160, 161
10224....144, 146, 158, 160, 161
10225....144, 146, 158, 160, 161
10228....156
10229....161
10235....143, 154
10244....154
10248....147, 148
10249....162, 163
10250....162, 163
10252....162, 163
10253....162, 163
10254....139, 144, 146, 158, 160
10259....163
10259-C....163
10259-CS....163
10259-S....163
10260....162, 163
10264....154, 156
10283....156
10285-003....162
10290....163
10290-002....162
10290-S....163
10343....148, 150
10347....148, 150
10356....140, 151, 152, 153
10357....151
10358....140, 152, 153
10364AL-001....144, 158
10365AL....144, 158
10366HC-001....156
10366HC-002....156
10366SS-001....139, 144, 146, 156, 158, 160
10366SS-002....139, 144, 146, 156, 158, 160
10367CK....144, 158
10368SS....139, 144, 146, 156, 158, 160
10369VY....144, 146, 158, 160
10370SS....144, 146, 158, 160
10372....139, 158
10373AL....139, 144, 146, 158, 160
10374AL....139, 144, 146, 158, 160
10375SS....139, 140, 144, 146, 148, 150, 153, 156, 158
10376SS....139, 144, 146, 148, 150, 156, 158, 160
10377SS....144, 146, 158, 160
10382SS....139, 144, 146, 158, 160
10387-20....158
10387P-20....143, 144, 146
10387P-TH....141
10430AL....140, 153
10431AL....156
10432NP....139, 140, 153
10433PL....139, 140, 153

10434AL 140, 153
10435AL 140, 153
10436SS 139, 140, 153
10437SS 139, 140, 153
10438A 139, 140, 153
10459 ..... 139, 140, 152, 153
10460 152
10465 ..... 139, 140, 153
10470AL 151, 152
10471NY 150
10471NY-P&P 148
10476AL 148, 150
10477SS 148, 150
10507SS 143, 154
10508SS 143, 146, 154, 160
10520PL 152
10521NP 152
10523NY-003 ..... 162, 163
10523NY-004 163
10524PL-001 ..... 162, 163
10525AL 146, 160
10526AL 146, 160
10527CK 146, 160
10529AC 146, 160
10530SS 146, 160
10531AL 160
10540SS 150
10541AL 150
10542BN 150
10550SS 162, 163
10554SS 150
10558AL 146, 160
10562 161
10596PLAC 139
10597CK 139
10598AL 139
10599AL 139
10600AL 139
10601 139
10602BR 139
10603BR 139
10605PL 141, 143, 144, 146, 51
10606AC-002 139
10612 139
10616PLBN 139, 140
10621AL 139, 144, 146, 158, 160
10622 61
10638 ..... 147, 148
10639 140
10688 51
10690PL-001 156
10715NP 162, 163
10716ST 162, 163
10717SS 162, 163
10718PLUG 163
10718SS 163
10735-002 139
10841SS 147, 149
110088 130
110319 93
110601 89
110691 99
110717 103
110746 ..... 128, 130
110748 96
110755 ..... 104, 106
110798 ..... 128, 130
110892 97
110897 104
110928 104
111196 104
111542 80
111550 80
111552 80
111553 ..... 105, 80
111554 80
111556 80
111557 80
111559 80
111560 80
111561 80
111562 ..... 80, 97
111563 80
111564 80
111565 80
111566 80
111569 80
111570 97
111572 97
111573 80
111574 80
111575 97
111579 80
111580 80
111679 101
111680 101
111681 101
111683 101
111686 101
111687 101
111689 102
111692 ..... 101, 85
111693 101
111694 101
111706 99
111723 89
111727 88
111728 ..... 88, 93
111729 88
111730 88
111733 97
111SS3 104
112012 ..... 86, 87, 89, 92
112024 105
112028 85
112044 97
112052 83
112053 83

112055 85
112056 85
112097 85
112098 85
112099 131
112138-L 91
112242 ..... 88, 93
112245 91
112260 104
112261 104
112262 99
112263 99
112264 99
112269 96
112270 ..... 96, 97
112271 97
112370 106
112416 99
1125A 128, 33, 34
1125A-125NPT 33
1125B 128, 33
112D 33
112DAL-9 128
112DNS 33
112DSK 128, 130
1143A 129, 33, 34
1143B 129, 33
114D 33
114D-AV 36
114D-AV-06ASM 36
114DAL-10 ..... 128, 129, 130
114DAL-2 129
114DAL-3 130
114DAL-4 130
114DAL-AV-19 ..... 128, 130
114DAL-AV-20 130
114DAL-AV-22 130
114DAVR 36
114DNS 33
114DSK 129
1200SK 133
1250-2 131
1250-3 131
1250-94 33
1250SK 131
1250TK 131
1500SK 133
1518R 162
1565U 36
1570RK 133
1WAYBV200 23
1WAYBV200SW 23
1WAYBV200VIC 23
1WAYBV300 23
1WAYBV300SW 23
1WAYBV300VIC 23
1WAYBV400 23
200-G-BU 113
200-G-EPR 113
200-G-TES 113
200-G-TFVI 113
200-G-VI 113
200-PV-9 38
2000L 38
234-80-4 ..... 131, 35
234-80-5 ..... 131, 35
241667 85
241964 85
242028 85
242055 85
250-G-BU 115, 116, 121
250-G-EPR 115, 116
250-G-TES 115, 116, 121
250-G-TEV 116
250-G-TFVI 115
250-G-VI 115, 116, 121
2500L 38
2500SFV 38
2WAYBV200 23
2WAYBV200SW 23
2WAYBV200VIC3 23
2WAYBV300 23
2WAYBV300SW 23
2WAYBV300VIC3 23
2WAYBV400 23
300-ALT-AL 11
300-DC-ALPH 7
300-DLT-AL 11
300-DP-ALPH 7
300-G-BF 85
300-G-BU 100
300-HR-BR 107, 98
300-HRP-BR 100, 81, 83, 84, 85, 98
300GTTFBL 12
300GTTFCB 12
300GTTFK 12
3040ALTAL 11
3040DLTAL 11
31440-225AL 8
325-P 107, 98
340164 128
340165 130
340304 97
340331 97
341641 102
341643 101
341709 88
341755 80
341756 80
341784 93
341801 80
341818 99
341819 99
341820 99
341827 97
341870 99
390104 104
390105 104

390146....99
390552....103
390564....84
390812....80
390813....80
390815....80
390822....101, 102
390826....101
390841....88
390842....94
390843....85
390844....85
391137....34
391149....85
391848....104
391858....104
391859....85
391860....99
391868....99
400-ALT-AL....11
400-CVR-AL....20
400-DC-ALPH....107, 7
400-DDVR-AL....20
400-DLT-AL....11
400-DP-ALPH....7
400-DVR-AL....20
400-G-BF....83, 84, 85
400-G-BU....100, 107, 95, 98
40001AL....108
40001SS....108
40001ZA....108
40002AL....108
40002SS....108
40003AL....108
40003SS....108
40004SS....108, 110, 111
40005BR....108
40005SS-001....108
40005SS-002....108
40006BN....111
40006EP....111
40006KR....111
40006TS....110, 111
40006VI....111
40022ALTAL....11
40022DLTAL....11
400460....88
40048WI....21
40053SS....123
40054BR....123
40055SS....123
40056SS....123
400588....88
400636....101
400637....94
40074SS....113, 116, 121
40075TF....113, 116, 121
40076BN....113, 116, 121
40076EP....113, 116
40076KR....113, 116, 121
40076VI....113, 116, 121
40077TF....113, 116, 121
40078FG....113, 116, 121
40079SS....113, 116, 121
40080SS....113, 116, 121
40081ALBN....115, 121
40081ALEP....115
40081ALVI....115, 121
40081SSBN....116
40081SSEP....116
40081SSVI....116
40082TF....113, 116, 121
40083SS....115, 116, 121
40084TF....115, 116, 121
40085BN....115, 116, 121
40085EP....115, 116
40085KR....115, 116
40085TS....115, 116, 121
40085TV....115, 116
40085VI....115, 116, 121
40086SS....113, 116, 121
40087SS....113, 116, 118, 121
40088SS....113, 116, 121, 127
40089SS....113, 116, 121
40090BN....147, 149
40091SS....115, 116, 121
40092SS....115, 116, 121
40093SS....115, 116, 121
40094SS....113, 116, 121
40095TF....115, 116, 121
40096SS....116
40097SS....115, 116, 121
40098SS....115, 116, 121
40099SS....113, 116, 121, 150
400AWSPAL....15
400GTTFBL....12
400GTTFCB....12
400GTTFK....12
40100SS....113, 116, 121
40101SS....113, 116, 121
40106AC....121
40108AC....121
40109AC....121
40110ST....121
40111SS....121
40114SS....113
40115SS....113
40116SS....113
40117ALBN....113
40117ALEP....113
40117ALVI....113
40117SSBN....114
40117SSEP....114
40117SSVI....114
40118SS....113
40119TF....113
40120BN....113
40120EP....113

40120KR 113
40120TS 113
40120TV 113
40120VI 113
40122TF 113
40124SS 113
40125SS 113
40129AL 108
40129SS 108
40129ZA 108
40130AL 108
40130SS 108
40131AL 108
40131SS 108
40132SS 108
40133BR 108
40133SS-001 108
40133SS-002 108
40134BN 111
40134EP 111
40134KR 111
40134TS 111
40134VI 111
40138SS 124
40139SS 124
40140SS 124
40141SS 124
40142SS 124
40143SS 124
40144SS 124
40145SS 124
40146HC 124
40147CA 124
40148SS 124
40149SS 124
40150BN 124
40150VI 124
40151SS 124
40152SS 124, 127
40153SS 124
40154SS 124
40155SS 124, 127
40158ST 127
40159SS 124
40160SS 124
40162BN 124
40162VI 124
40163BN 124
40163VI 124
40164SS 124
40166VY 124
40167AL 124, 127
40168SS 115, 116, 121
40169SS 113
40170TF 115, 116, 121
40171TF 113
40175SS 110
40180AL 109
40180SS 109
40180ZA 109
40181AL 109
40181SS 109
40182AL 109
40182SS 109
40183BR 109
40183SS 109
40184SS 109, 111
40185BN 111
40185EP 111
40185KR 111
40185TS 111
40185VI 111
40187SSSS 110
40190TF 110, 150
40191TF 110
40192SS 110
40193AL 20
40195SS 118
40196SS 118
40197ALBN 118
40197ALVI 118
40197SSEP 118
40197SSVB 118
40198TF 118
4020-CVR-AL 20
40200AL 118
40201TF 118
40202SS 118
40203SS 118
40204SS 118
40205SS 118
40206SS 118
40207SS 118
40208SS 118
40209SS 118
40210SS 118
40211TF 118
40212SS 118
40213FG 118
40214SS 118
40215SS 99
40216SS 118
40217SS 118
40218SS 118, 99
40219TF 118
40221SS 118
40222TV 118
40223BN 118
40223EP 118
40223KR 118
40223VB 118
40223VI 118
40224BN 118
40224EP 118
40224KR 118
40224TS 118
40224TV 118
40224VB 118

40224VI 118
40235TF 118
40246SS 127
40247HC 127
40248CA 127
40249SS 127
40250SS 127
40251SS 127
40252SS 127
40253AL 127
40254SS 127
40255SS 127
40256SS 127
40257ST 127
40258SS 127
40259BR 127
40260SS 127
40261SS 127
40262SS 127
40263SS 127
40264SS 127
40265NY 127
40266FL 127
40267SS 127
40268BR 127
40269VY 127
40270SS 127
40271SS 127
40272SS 127
40273BN 127
40273VI 127
40274BN 127
40274VI 127
40275BN 127
40275VI 127
40276BN 127
40276VI 127
40278AL 123
40278BR 123
40279AL 123
40279BR 123
40280AL 123
40280BR 123
40281SS 123
40285SSSS 118
4030-CVR-AL 20
4030-DAVR-AL 20
4030-DVR-AL 20
40303AL 108
40304SS 118
40305TF 118
40321TF 12
40322TF 12
40323BL 12
40323TF 12
40341SS 111
40342SSSS 111
40343TF 111
40344SS 111
40347SSSS 111
40359SSSS 111
40360SS 111
40361SS 111
40362TF 111
40364BL 12
40364TF 12
40419SS 85
40420SS 85
40447ST 8
40462VY 10
4050AL 95
40530AL 58
4062AL 95
4063 95
4066 95
4068 95
4071 95
407119 130
41440-225AL 8
4400SGK 84
4400SGK-V 84
4426 ..... 84, 88
4427 84
4432 89
4433 ..... 84, 88
4443 12
4500-5 ..... 81, 83, 84
4500-7 ..... 81, 83, 84
4500RK 81, 83, 84
4500RK-V 81, 83, 84
4502 7
4502ASSM 7
4502SGK 84
4502SGK-V 84
4504ASSM 7
4530 7
4530SG 7
4540 7
4540DC 8
4540DC-1200 8
4540F 7
4540SG 7
4540SG-RK1 83
4540SG-RK2 83
4540SG-RK2-V 83
4540SG-RK3 83
4540SGV 7
4540V 7
500-7A2 131
5000-24 ..... 7, 81
5000-24L 7
5000-25 7
5000AI 21
5000AI-2 106
5000AI-5 106
5000AIHD 21
5000AIHDRK1 105
5000AIHDSK 105, 106

5000AIHK 104, 105, 106
5000AIR 21
5000AIRHD 21
5000AIRHDSK 104
5000AIRK1 105
5000AIRK2 105
5000AIRRK1 104
5000AIRSK 104
5000AIS 21
5000AISHD 21
5000AISK 105, 106
5000AIST 21
5000AISTHD 21
5000AIV 21
5000AIVHD 21
5000AIVS 21
5000S 105, 21
5000ST 105
5000STHD 105
5006AIHD 107, 21
5006AIHDSK 107
5006AIRHD 107, 21
5006AIRHDSK 107
5006AISTHD 107
5006AIVHD 107, 21
500K 133
5200-SFI 9
5200-SFI-3 9
5200-SFI-3-RK1 85
5200-SFI-3V-RK1 85
5200-SFI-RK1 85
5200-SFIV 9
5200-SFIV-RK1 85
5200C-SFI 9
5200C-SFI-3 9
5201-SFI 10
5201-SFI-3-RK1 85
5201-SFI-RK1 85
5201CA 10
5201CA-3 10
5201CC 10
5204 ..... 6, 80
5204-SP 80
5204C 6, 80
5204H 30
5204K1 80
5204K11 ..... 79, 80
5204K12 ..... 79, 80, 97
5204K13 ..... 79, 80
5204K2 79
5204K3 ..... 79, 80
5204K5 ..... 79, 80
5204K6 ..... 79, 80
5204K7 ..... 79, 80
5204K8 ..... 79, 80, 97
5204K9 79
5204KV1 80
5204KV2 79
5204L 6, 80
5204LNG 6, 80
5204LSNG 6
5204NG 6, 80
5204NGC 6, 80
5204NGV 6, 80
5204P 6
5204SFI 6
5204SFI-P 6
5204SNG 6, 80
5204TNG 6, 80
5205 7
5205-RK1 81
5205-RK2 81
5205-RK3 81
5205-RK4 ..... 81, 83
5300 30
5300B 30
5300BC 30
5300BCL 30
5300G 30
5300GC 30
5354K1 78
5354K10 78
5354K11 78
5354K12 78
5354K13 78
5354K14 78
5354K15 78
5354K16 78
5354K17 78
5354K18 78
5354K19 78
5354K2 78
5354K20 78
5354K21 78
5354K22 78
5354K25 78
5354K3 78
5354K4 78
5354K5 78
5354K6 78
5354K7 78
5354K8 78
5354K9 78
5354P1 30
5400 30
5400B 30
5400G 30
600-ALT-AL 11
600-DLT-AL 11
6000-12 ..... 80, 86, 94
6000-13 ..... 86, 94
6000-14 ..... 14, 18
6000-14C 15, 89
6000-15 ..... 14, 18
6000-15C 15, 89
6000-16 14
6000-16C 15, 89
6000-17 ..... 14, 18

6000-17C....15, 89
6000-20....14
6000-26C....15, 89
6000-7....86
6000-8....86, 94
6000-9....86, 87, 89, 92
6000-SSA....15
6000AS....14
6000ASA....14
6000ASAL....14
6000ASAT....14
6000ASB....14
6000ASC....14
6000ASD....14
6000ASK....90
6000ASR....14, 90
6000AST....14
6000EHK....86, 89, 90, 92, 93
6000EXT....15
6000F....14
6000NPHK....85, 91, 92, 93
6000SSHK....90
6030....86, 88
6030AS....90
6200....13
6200-1....86
6200-15ASSM....87, 89, 92
6200-17....14
6200-7....87, 89, 92
6200-7X....87, 89
6200A....13
6200ARK....86, 87
6200B....13
6200BK....86, 87, 89, 92
6200C....13
6200D....13
6200SBK....87, 89, 92
6200SGK....86, 90
6200SHK....87, 89, 92
6200X....13
6200X-17....14
6200XA....13
6200XB....13
6200XC....13
6200XD....13
6230....87, 89
6230X....87, 89
6300-3....88
6303....14
6303NPT....14
6304....14
6304-1....88
6304NPT....14
6400....16
6400-1....89
6400-4....15, 89
6400-DTK....89
6400ARK....89
6400EXT....15
6400EXT-3....89
6400F....16
6400FNPT....16
6400SGK....89
6400X....16
6400XF....16
6400XFNPT....16
6430....16
6430F....16
6430X....16
6430XF....16
6500....13
6500-RK1....88
6500A....13
6500AHK....88
6500B....13
6500C....13
6500D....13
6500X....13
6500XA....13
6500XB....13
6500XC....13
6500XD....13
6544CA-1....89
875-3....131
875-4....131, 35
875-5....131, 35
900....35
900B....35
900B34....35
900RB....131
900S....35
900S34....35
900SK....131
900TK....131
900W34B....35
900W34S....35
ACAR34BZ....83, 84
AL4051-BORE....15
AS156....86, 87, 88, 92
BA31-200....28
BA31-200RK1....123
BA31-300....28
BA31-300RK1....123
BA32-200....28
BA32-200RK1....123
BA32-300....28
BA32-300RK1....123
BA61-300....28
BA62-300....28
BC61-200....28
BC62-200....28
BL-RK10....134
BL-RK102....136
BL-RK11....134
BL-RK112....136
BL-RK12....134
BL-RK122....136
BL-RK13....134

BL-RK4 134
BL-RK42 136
BLS150 34
BLS125 34
BL005 ..... 134, 34
BL062 34
BL064 34
BL066 34
BL066NS 34
BL068 34
BL068NS 34
BL072 34
BL072NS 34
BL918 34
BL919 34
BL920 ..... 34, 139, 142, 144, 146, 156, 158, 160, 162, 163
BS61-200 28
BS61-200RK1 125
BS61-200RK2 125
BS61-300 28
BS61-300RK1 127
BS61-300RK2 127
BS62-200 28
BS62-200RK1 125
BS62-200RK2 125
BS62-300 28
BS62-300RK1 127
BS62-300RK2 127
BSS4051 17
BSS61-200 28
BSS61-300 28
BSS62-200 28
BSS62-300 28
BY4051 17
BZ4051 17
BZ4051S 17
D2C71-150 27
D2C71-200 27
D2C72-150 27
D2C72-200 27
D2C73-150 27
D2C73-200 27
D2C74-150 27
D2C74-200 27
DAB1 37
DAB14 37
DAB15 37
DAB2 37
DAB34 37
DAWS10 36
DAWS34 36
DB300PMB 21
DB400PMB 21
DBA11-150 24
DBA11-1520 25
DBA11-200 24
DBA11-300 24
DBA12-150 24
DBA12-1520 25
DBA12-200 24
DBA12-300 24
DBA61-200 24
DBA62-200 24
DBA63-150 24
DBA63-200 24
DBA63-300 24
DBA64-150 24
DBA64-200 24
DBA64-300 24
DBA66-150 24
DBA66-200 24
DBA66-300 24
DBA67-150 24
DBA67-200 24
DBA67-300 24
DBA69-300 24
DBA71-150 24
DBA71-200 24
DBA71-300 24
DBA72-150 24
DBA72-200 24
DBA72-300 24
DBA73-150 24
DBA73-200 24
DBA73-300 24
DBA74-150 24
DBA74-200 24
DBA74-300 24
DBA76-150 24
DBA76-200 24
DBA76-300 24
DBA77-150 24
DBA77-200 24
DBA77-300 24
DBA78-200 24
DBA79-300 24
DBAF71-1520 25
DBAF71-200 25
DBAF71-300 25
DBAF72-1520 25
DBAF72-200 25
DBAF72-300 25
DBAF73-1520 25
DBAF73-200 25
DBAF73-300 25
DBAF74-1520 25
DBAF74-200 25
DBAF74-300 25
DBAF76-1520 25
DBAF76-200 25
DBAF76-300 25
DBAF78-200 25
DBAK1-150 ..... 108, 109
DBAK1-200 ..... 108, 109
DBAK1-300 109
DBAK2-150 ..... 108, 109
DBAK2-200 ..... 108, 109

DBAK2-300....109
DBAK3-150....108, 109
DBAK3-200....108, 109
DBAK3-300....109
DBAK4-150....108, 109
DBAK4-200....108, 109
DBAK4-300....109
DBAK6-150....108, 109
DBAK6-200....108, 109
DBAK6-300....109
DBAK7-150....108, 109
DBAK7-200....108, 109
DBAK7-300....109
DBAK9-300....109
DBAV73-2030....25
DBC61-150....26
DBC61-150RK2....113
DBC61-200....26
DBC61-200RK2....115
DBC61-300....26
DBC61-300RK2....118
DBC62-150....26
DBC62-150RK2....113
DBC62-200....26
DBC62-200RK2....115
DBC62-300....26
DBC62-300RK2....118
DBC63-150....26
DBC63-200....26
DBC63-300....26
DBC64-150....26
DBC64-150RK2....113
DBC64-200....26
DBC64-200RK2....115
DBC64-300....26
DBC64-300RK2....118
DBC66-150....26
DBC66-200....26
DBC66-300....26
DBC67-150....26
DBC67-200....26
DBC67-300....26
DBC69-300....26
DBC69-300RK2....118
DBC71-150....26
DBC71-150RK2....114
DBC71-200....26
DBC71-200RK2....116
DBC71-300....26
DBC72-150....26
DBC72-150RK2....114
DBC72-200....26
DBC72-200RK2....116
DBC72-300....26
DBC73-150....26
DBC73-200....26
DBC73-300....26
DBC74-150....26
DBC74-150RK2....114
DBC74-200....26
DBC74-200RK2....116
DBC74-300....26
DBC76-150....26
DBC76-200....26
DBC76-300....26
DBC77-150....26
DBC77-150-GL....26
DBC77-200....26
DBC77-200-GL....26
DBC77-300....26
DBC78-200....26
DBC79-300....26
DBCL-200....113, 114, 115, 116, 27
DBCL-300....27
DBCx1-150RK1....113, 114
DBCx1-200RK1....115, 116
DBCx1-300RK1....118
DBCx1-300RK3....118
DBCx2-150RK1....113, 114
DBCx2-200RK1....115, 116
DBCx2-300RK1....118
DBCx2-300RK3....118
DBCx3-150RK1....113, 114
DBCx3-150RK2....113, 114
DBCx3-200RK1....115, 116
DBCx3-200RK2....115, 116
DBCx3-300RK1....118
DBCx3-300RK2....118
DBCx3-300RK3....118
DBCx4-150RK1....113, 114
DBCx4-200RK1....115, 116
DBCx4-300RK1....118
DBCx4-300RK3....118
DBCx6-150RK1....113, 114
DBCx6-200RK1....115, 116
DBCx6-300RK1....118
DBCx7-150RK1....113, 114
DBCx7-200RK1....115, 116
DBCx7-300RK1....118
DBCx9-300RK1....118
DBCx9-300RK3....118
DBCxx-150RK4....113, 114
DBCxx-150RK5....113, 114
DBCxx-150RK6....113, 114
DBCxx-150RK7....113, 114
DBCxx-150RK8....113, 114
DBCxx-150RK9....113, 114
DBCxx-200RK4....115, 116
DBCxx-200RK5....115, 116
DBCxx-200RK6....115, 116
DBCxx-200RK7....115, 116
DBCxx-200RK8....115, 116, 121
DBCxx-200RK9....115, 116
DBCxx-300RK4....118
DBCxx-300RK5....118
DBCxx-300RK6....118
DBCxx-300RK7....118
DBCxx-300RK8....118

DBCxx-300RK9 118
DBPI080 10
DBPI080-MINI 10
DBPI080L 10
DBS61-200 26
DBS62-200 26
DBS63-200 26
DBV-BL200 31
DBV-BL300 31
DBV-BL400 31
DBV-BN200 31
DBV-BN300 31
DBV-BN400 31
DBV-VB200 31
DBV-VB300 31
DBV-VB400 31
DEFN075 32
DFN100 32
DFN100HF 32
DFN100SF 32
DN7LOBF 32
DN7UOBF 32
DNOG5 33
DNOG5-NL 33
DNOG6 33
FG4540 12
FT100 ..... 149, 53
FT100-12 ..... 149, 53
FT100-18 ..... 149, 53
FT1001 52
FT1001-12 52
FT1002 52
FT1002-12 52
FT1003 52
FT1003-12 52
FT1004 52
FT1004-12 52
FT1005 52
FT1005-12 52
FT1006 52
FT1006-12 52
FT100S 150, 54
FT101 53
FT101-12 53
FT101-18 53
FT102 53
FT103 53
FT150 ..... 149, 47
FT150-12 ..... 149, 47
FT150-12P 147
FT150-18 ..... 149, 47
FT150-18P 147
FT150P 147, 44, 51
FT150P-12 ..... 44, 51
FT150P-18 44
FT150S 150, 54
FT151 47
FT151-12 47
FT151-18 47
FT151P 44
FT151P-12 44
FT151P-18 44
FT151RL 51
FT151RL-12 51
FT152 47
FT152P 44
FT152RL 51
FT155 59
FT191S 54
FT2001 48
FT2001-12 48
FT2002 48
FT2002-12 48
FT2003 48
FT2003-12 48
FT2004 48
FT2004-12 48
FT2005 48
FT2005-12 48
FT2006 48
FT2006-12 48
FT201 ..... 149, 49
FT201-12 ..... 149, 49
FT201-18 ..... 149, 49
FT202 49
FT202-12 49
FT202-18 49
FT203P 49
FT203P-SPEC 49
FT204P 49
FT206 50
FT207 47
FT208 47
FT208-390P 42
FT208-390PG 42
FT208-390PGS 42
FT208-390PGSO 42
FT208-390PGST 42
FT208-390PGSTO 42
FT208-390PGT 42
FT208-390PP 42
FT208-390PPG 42
FT208-390PPGS 42
FT208-390PPGSO 42
FT208-390PPGST 42
FT208-390PPGSTO 42
FT208-390PPGT 42
FT208-391P 42
FT208-391PG 42
FT208-391PGS 42
FT208-391PGST 42
FT208-391PGT 42
FT208-391PP 42
FT208-391PPG 42
FT208-391PPGS 42
FT208-391PPGST 42
FT208-391PPGT 42
FT20800-EXT-25 45

FT20800-EXT-2FT....45
FT20800-EXT-36....45
FT20800-EXT-8....45
FT20801....45
FT20801S....45
FT20801TWS....45
FT20802....45
FT20802S....45
FT20802TWS....45
FT20803....45
FT20803S....45
FT20803TWS....45
FT20804....45
FT20804S....45
FT20804TWS....45
FT20805....45
FT20805S....45
FT20805TWS....45
FT20806....45
FT20806S....45
FT20806TWS....45
FT208LCM....43
FT208P....43
FT208PP....43
FT208PPC....43
FT208PSS....43
FT2101....48
FT2101-12....48
FT2102....48
FT2102-12....48
FT2103....48
FT2103-12....48
FT2104....48
FT2104-12....48
FT2105....48
FT2105-12....48
FT2106....48
FT2106-12....48
FT2801....46
FT2801-12....46
FT2802....46
FT2802-12....46
FT2803....46
FT2803-12....46
FT2804....46
FT2804-12....46
FT2805....46
FT2805-12....46
FT2806....46
FT2806-12....46
FT2807....46
FT2807-12....46
FT2808....46
FT2808-12....46
FT2811....46
FT2811-12....46
FT2812....46
FT2812-12....46
FT2813....46
FT2813-12....46
FT2814....46
FT2814-12....46
FT2815....46
FT2815-12....46
FT2816....46
FT2816-12....46
FT2817....46
FT2817-12....46
FT2818....46
FT2818-12....46
FT295....43
FT300....55
FT300GW....55
FT300P....43
FT300PG....43
FT300SS....56
FT300SSGW....56
FT301....55
FT301GW....55
FT301P....43
FT301SS....56
FT302....55
FT304....55
FT304SS....56
FT305....55
FT306....55
FT306P....43
FT307....55
FT307SS....56
FT310....141, 156, 55
FT310SS....141, 156, 56
FT311....141, 156, 55
FT311SS....141, 156, 56
FT312....154
FT313....156
FT313SS....156
FT314....156, 55
FT314SS....156, 56
FT315....154, 55
FT316....143, 154, 55
FT317....156, 55
FT317SS....156, 56
FT320....139, 141, 144, 145, 146, 156, 158, 160, 55, 56
FT321....139, 141, 144, 145, 146, 156, 158, 160, 55, 56
FT390....57
FT390-20....57
FT390G....57
FT390G-20....57
FT390GT....57
FT390PG-20....43
FT390T....57
FT390V....57
FT391....57
FT391P-20....43
FT391PG-20....43
FT391V....57
FT393....58
FT394....58

FT394G 58
FT394P 146, 43
FT394PG 146, 43
FT394V-G 58
FT394VP 146, 43
FT394VPG 146, 43
FT395 58
FT395G 58
FT395P-20 43
FT395PG-20 ..... 146, 43
FT395V 58
FT395V-G 58
FT400 60
FT400-1000 60
FT400-500 60
FT401 60
FT401-1000 60
FT401-150 60
FT402 60
FT403 60
FT404 60
FT404-1000 60
FT404-150 60
FT405-500 60
FT406 58
FT450 59
FT451 59
FT452 59
FT470 60
FT520 61
FT520CASE 61
FT520WOGA 61
FT520WOGACASE 61
FT521 61
FT522 61
FT523 61
FT530 61
FT555 62
FT555PA 62
FT590OG 62
FT590OGT 62
FT590TG 62
FT590TGT 62
FT600 63
FT600-4 63
FT600C 63
FT600C-2 63
FT600CP 63
FT600P 63
FT600P-4 63
FT600S 63
FT600S-4 63
FT600SC 63
FT601 ..... 163, 63
FT601-10 ..... 163, 63
FT601-4 163
FT602 ..... 163, 63
FT603 63
FT604 ..... 163, 63
FT606 63
FT620 63
FT620P 63
FT620S 63
FT620SP 63
FT621 ..... 163, 63
FT622 ..... 163, 63
FT623 63
FT624 ..... 163, 63
FT7500 64
FT7501 64
FT7502 64
FT7600 64
FT7600-4 64
FT7600C 64
FT7600C-2 64
FT7600CP 64
FT7600P 64
FT7600P-4 64
FT7600S 64
FT7600SC 64
FT7600SP 64
FT7605C 64
FT7620 64
FT7620P 64
FT7620S 64
FT7620SP 64
FT7630 64
FT7630D 64
FT7640-3 64
FT7640-4 64
FT9000 149
FT9000P 147
FT9001 ..... 147, 149
FT9002 149
FT9003 ..... 151, 152
FT9004 ..... 151, 152
FT9008 ..... 141, 156
FT9009 ..... 141, 156
FT901 52
FT9010 156
FT9011 ..... 147, 149
FT9013 ..... 141, 156
FT902 52
FT9020 ..... 141, 156
FT9021 60
FT9022 60
FT9023 60
FT9024 60
FT9025 60
FT903 52
FT9030 151
FT9031 ..... 152, 153
FT9034 ..... 141, 156
FT9036 ..... 140, 153
FT9037 61
FT904 52
FT9040 ..... 140, 153
FT9046 ..... 141, 156

FT905 52
FT9051 ..... 139, 144, 145, 158, 160
FT9052 ..... 139, 144, 145, 158, 160
FT9055 150
FT9059 152
FT9062 ..... 139, 144, 145, 158, 160
FT9063 ..... 139, 144, 145, 158, 160
FT9064 152
FT9068 ..... 139, 141, 144, 145, 148, 150, 156, 158, 160
G200BL 31
G200T 31
G200VB 31
G300BL 31
G300T 31
G300VB 31
G3050 67
G4000AS 97
G400BL 31
G400T 31
G400VB 31
GS1 22
GS1-2 22
GS2 22
L02BL 31
L03BL 31
L04BL 31
L1110-L2287 ..... 92, 93
L2311 90
L2312 90
L2373 90
L4217 100
L519-12 84
L519-15 83
NIPPLE/1 ..... 86, 87, 92
NUT-106 33
NUT.25HX-SS 105, 106
NUTL357-1 ..... 129, 130
O-RING#132 ..... 128, 131, 96
O-RING#39 89
O-RING-AS-129 ..... 129, 130
O-RING-AS-334 ..... 92, 93, 97, 98
O-RING-AS016 ..... 129, 130
O-RING-AS339-V 96
PC30 22
PIN-L389-SS 128
PIN5/16X 1 1/4P 87
PIN5/16X11/4P 92
RING-VH-225 96
SA4050AL 17
SA4050BZ 17
SC1024375-SS 96
SC3/8NCX1/2 89
SC5-16NCX.75FSS 96, 97
SC5/16-18X2.5P 89
SF1N 33
SINGLE1518R 163
SLV358-1 130
SLVL358-1 129
SPRG-972 131
SPRG-A4630 104
SPRG-L368 ..... 128, 129, 130, 131
SPRG-L4506 103
SPRG/L4238 98
SPRG/L4432 96
SPRING-L5123 ..... 96, 97
STEMPACK-L360 ..... 129, 130
SWMF-RK1 ..... 132, 134
SWMF-RK2 ..... 132, 134
SWMF-RK22 132
SWMF-RK3 ..... 132, 134
SWMF-RK32 132
SWMF-RK4 134
SWMF-RK42 136
SWMF-RK5 134
SWMF-RK52 136
SWMF-RK6 134
SWMF125 36
SWMF150 36
SWMF200 36
TDF6 22
TDF68RK 104
TDF7 22
TDF7RK 104
TDF8 22
TL4070BZ 17
TRUARC-5100-25 90
TTF300SP 11
TTF3AL 11
TTF3AL-3MT 11
TTF400SP 11
TTF4AL 11
TTF4AL-3EMT 11
TTF4AL-3FT 11
TTF4AL-3MT 11
TTF4AL-4EMT 11
TTF4AL-4FT 11
TTF4AL-4MT 11
TTF4ALHC-3MT 11
TTF4ALHC-4MT 11
U-CUP-2/75 89
VAC4030RK 98
VR3100 19
VR3100NP 19
VR4000 19
VR4000-2 96
VR4000-3 96
VR4000-4 96
VR4000-5 96
VR4030-AL45 99
VR4030CS-1 98
VR4030CS-3 100
VR4030CS-4 98
VR4030CS-AL 20
VR4030CS-AL45 20
VR4030CS-NP 20
VR4030CS-SH 20
VR4040-AL45 99
VR4040-ALS45 99

VR4040CS-4MNPT 20
VR4040CS-AL 20
VR4040CS-AL45 20
VR4040CS-ALS45 20
VR4040CSB 99
VR4040CSRK1 ..... 20, 99
VR4040CSRK2 ..... 20, 99
VR4040CSRK3 99
VR4050ALT 17, 19
VR4050ALC 17, 19
VR4050PL 17, 19
VR4050PL-1200 17
VR4050PLC 19
VR4050PLRK1 95
VR4075 95
VR4076 95
VR4077 95
VR4086 17
VR4086-BY 17
VR4100 19
VR4100-3 ..... 96, 97
VR4100F 19
VR4100F-NGNP 19
VR4100F-SFI 19
VR4100FNG 19
VR4100NP 19
VR4100NPS 19
VR4100RK1 96
VR4100S 19
VR6000-1 92
VR6000-2 94
VR6000-3 ..... 92, 93, 97, 98
VR6000-4 ..... 92, 93
VR6000-5 ..... 92, 93
VR6000-6 ..... 18, 91, 92, 93
VR6000-7 ..... 92, 98
VR6000-8 92
VR6000-9 92
VR6000NP 18
VR6030RK1 101
VR6030RK2 101
VR6030RK3 101
VR6030RKV1 101
VR6030RKV3 101
VR6030SQ 20
VR6035RK1 102
VR6035RK2 102
VR6035RK3 102
VR6035RK4 102
VR6035RKV1 102
VR6035RKV3 102
VR6035SQ 20
VR6100CAK 91
VR6100NP 18
VR6200 18
VR6200ANP 18
VR6200ARK 92
VR6200NP 18
VR6200NPB 18
VR6200NPBP 18
VR6200NPBU 18
VR6200NPDP 18
VR6200PNP 18
VR6230 ..... 92, 93
VR6500 18
VR6500LPNP 18
VR6500NP 18
VR6500RK1 93
VRC3000AL 20
VRHK 20
VRHK-C 20
VRP3500 20
VRP3500-2 103
VRP3500-4 103
VRP3501-6 103
VRP3600 20
VRV3501 20
VRV3501-2 103
VRV3501-3 103
VRV3501-4 103
VRV3501-5 103
VRV3501-6 103
WASHER.375-SS 84, 88, 93

Limited Warranty

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

Other than the obligation of Dixon set forth herein, Dixon disclaims all warranties, express or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose, and any other obligation or liability. The foregoing constitutes Dixon's sole obligation with respect to damages, whether direct, incidental or consequential, resulting from the use or performance of the product.

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

Limits of Liability

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

Safety

Safety logos, which appear throughout our catalog, are used as a reminder that the user should carefully review for the appropriateness of the product for the media, application and environment in which it will be used.

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

Warning: Dixon® products may contain chemicals known to the State of California to cause cancer, birth defects, or other reproduction harm.

Copyright

Copyright © 2018 by Dixon Valve and Coupling

All rights reserved. This book is copyrighted material. Use, reproduction or copying of it by anyone other than Dixon® is strictly forbidden without its express written consent.

Dixon®
ph 877.963.4966
fx 800.283.4966
dixonvalve.com

DBP818 INDEX

Petroleum Products
pages 2 - 38

Overfill Products
pages 39 - 75

Petroleum Replacement Parts
pages 76 - 137

Overfill Replacement Parts
pages 138 - 163

Index
pages 164 - 182

United States

Albany, NY
ph 518.725.0998
178A Corporate Drive
Gloversville, NY 12078
nysales@dixonvalve.com

Atlanta, GA
ph 770.486.9619
101 T.D.K. Boulevard
Suite A
Peachtree City, GA 30269
gasales@dixonvalve.com

Dallas, NC
ph 704.376.5755
2925 Chief Court
Dallas, NC 28034
ncsales@dixonvalve.com

Chestertown, MD
ph 800.355.1991
800 High Street
Chestertown, MD 21620
sales@dixonvalve.com

Chicago, IL
ph 630.323.4442
1011 N. Hilltop Drive
Itasca, IL 60143
chsales@dixonvalve.com

Cleveland, OH
ph 330.425.3000
1900 Enterprise Parkway
Twinsburg, OH 44087
ohsales@dixonvalve.com

Houston, TX
ph 713.678.4291
6525 Homestead Road
Houston, TX 77028
txsales@dixonvalve.com

Kansas City, MO
ph 816.221.0064
1244 Saline Street
N. Kansas City, MO 64116
kcsales@dixonvalve.com

Los Angeles, CA
ph 909.605.6400
8840 Flower Road
Suites 150/160
Rancho Cucamonga, CA 91730
casales@dixonvalve.com

Portland, OR
ph 503.289.0400
2642 North Marine Drive
Portland, OR 97217
plsales@dixonvalve.com

Salt Lake City, UT
ph 801.972.1180
McGillis Ind. Pk. Suite A
1972 South 4370 West
Salt Lake City, UT 84104
utsales@dixonvalve.com

Tampa, FL
ph 813.247.3500
5120 Adamo Drive
Suite E
Tampa, FL 33619
flsales@dixonvalve.com

International

Wingfield SA, Australia
ph 61.8.8202.6000
fx 61.8.8202.6099

Edmonton, Alberta, Canada
ph 780.469.5444
fx 780.463.9205

Innisfil, Ontario, Canada
ph 705.436.1125
fx 705.436.6251

Montreal, Quebec, Canada
ph 514.422.9292
fx 514.422.0166

Preston, England
ph 44.1772.323529
fx 44.1772.314664

Paris, France
ph 33.171.841016
fx 33.171.841019

Troisdorf-Spich, Germany
ph 49.2241.84406.0
fx 49.2241.8440679

Monterrey, Mexico
ph 52.81.8354.5649
fx 52.81.8354.8197

St. Petersburg, Russia
ph 7.812.677.5447
fx 7.812.956.4782

Singapore
ph 65 6232 5272
fx 65 6232 5270

Sharjah, United Arab Emirates
ph 971.657.41488
fx 971.657.41484

DIXON
The Right Connection®

Dixon Bayco
800 High Street
Chestertown, MD 21620
Tech Hot Line: 877-582-3569
ph 410.778.2002 • 800.355.1991
fx 410.778.4702 • 800.283.4966
dixonvalve.com

GOODYEAR RUBBER PRODUCTS, INC.
727-342-5088
You can also email us at
GRP@goodyearrubberproducts.com