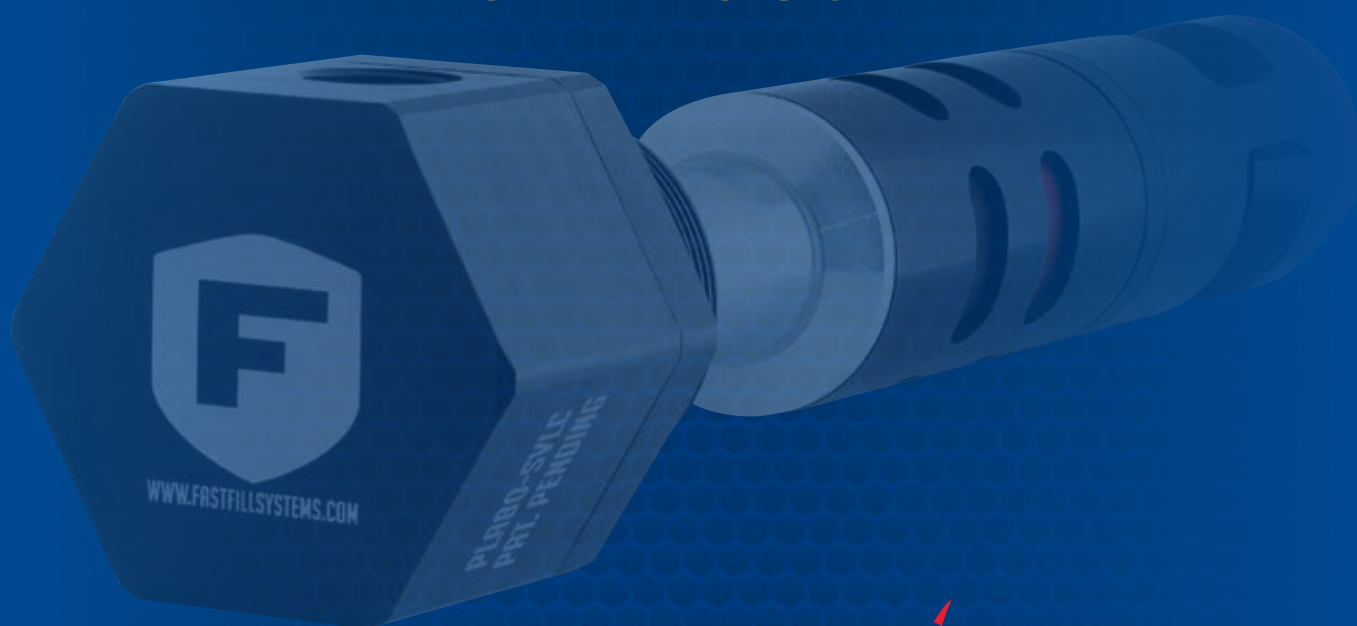




FAST FILL SYSTEMS

CATALOGUE



Call **134-222**
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PIRTEK Network is the accredited
National distributor for



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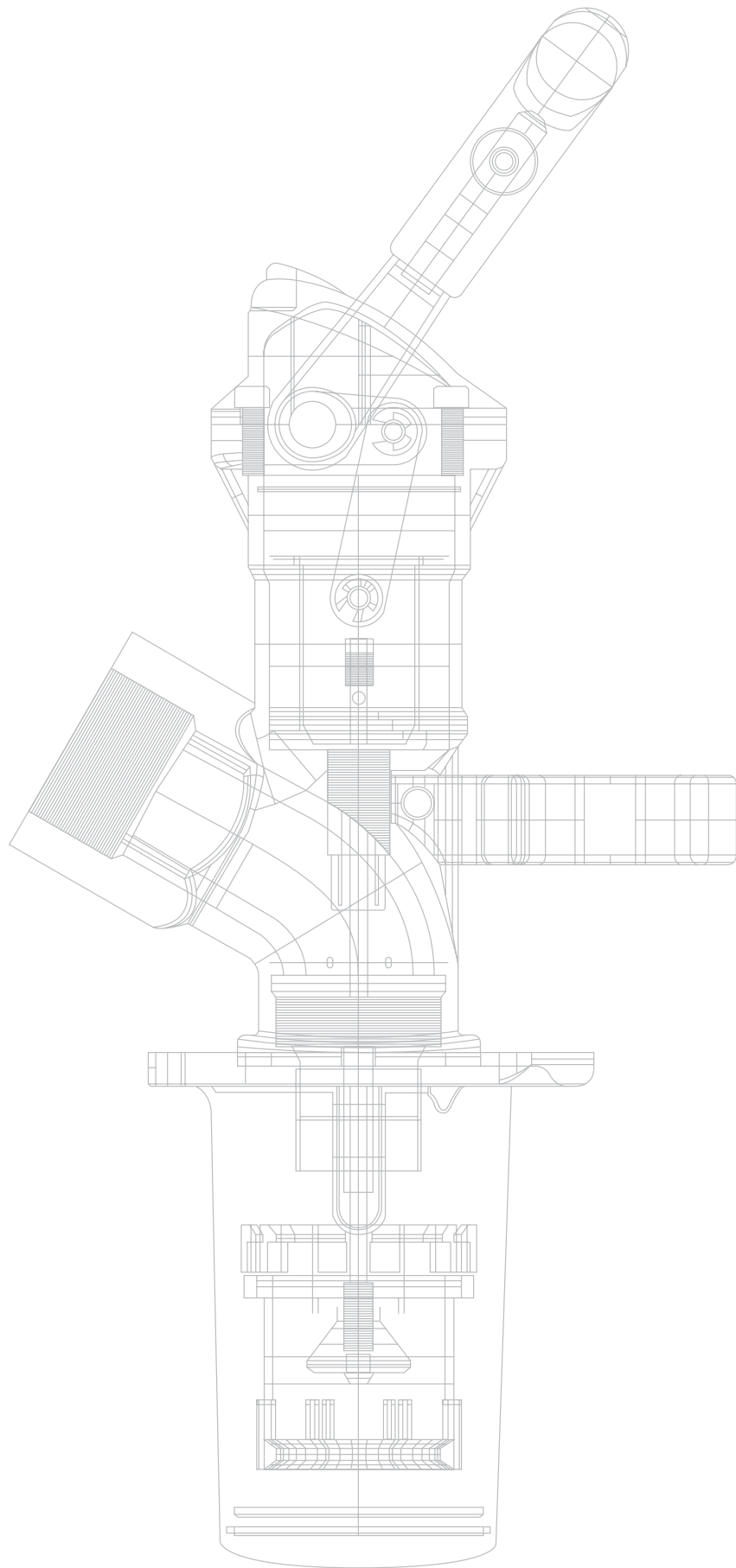
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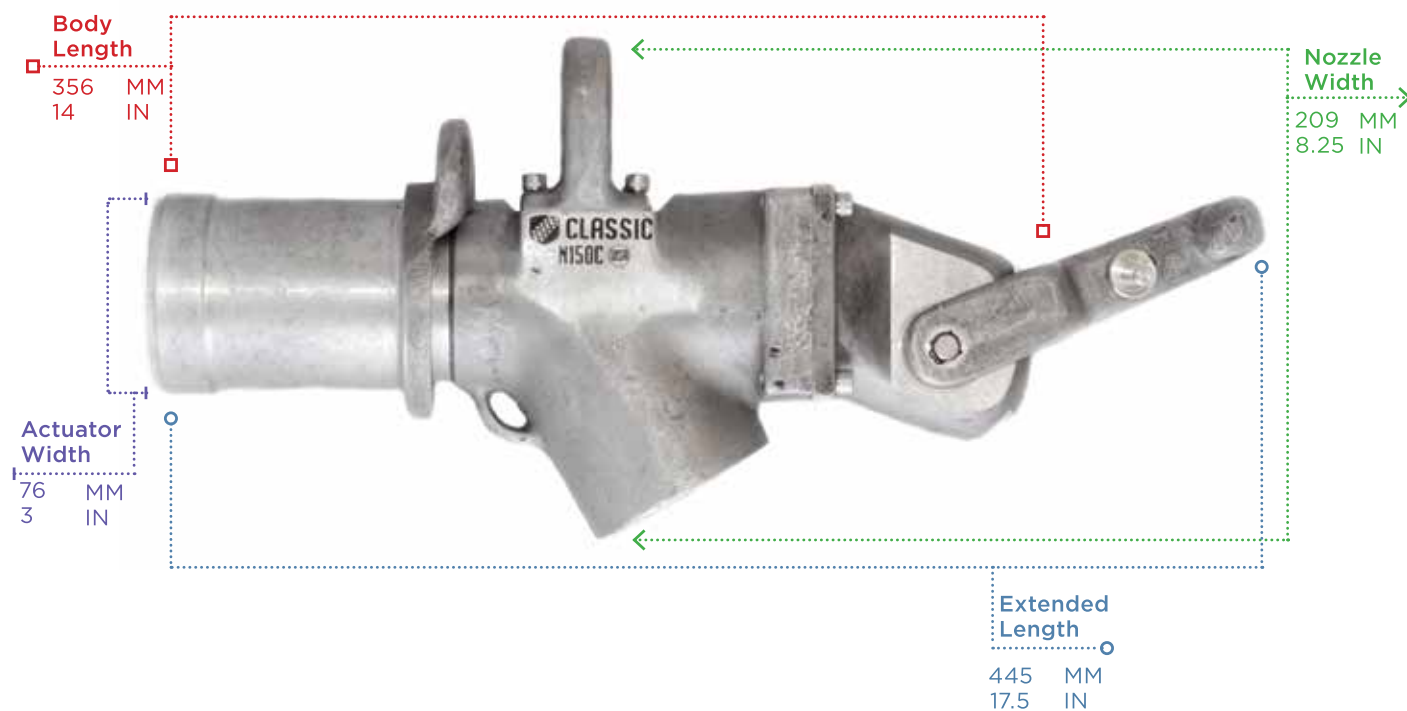
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FS-N150Cp

The Classic nozzle contains traditional components that have been in use for decades. This all-metal nozzle provides the operator with a familiar, proven piece of quality equipment that has a long history of being the standard nozzle of the heavy equipment industry.



Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism	Minimum Operating Temp	
5.17	BAR	567	LPM	94.5	LPM	38.1	MM	3.515	KG	Metal Latching Dogs	-30	°C
75	PSI	150	GPM	25	GPM	1-1/2	IN	7.75	LBS			

FS-N150PBp

The Pitboss diesel fuel nozzle (FS-N150PB) is perfect for users looking for a durable and forgiving diesel fueling solution. The Elastodog latching mechanism improves latching under harsh conditions and the piston-driven shut off engagement improves longevity.

- Powder coated non-slip finish for better grip.
- All-metal construction and fewer internal components.
- Plugs are available and strongly recommended.

Variations

Standard with plug	FS-N150PBp
Underground mining	FS-N150PBU
Brine Resistant	FS-N150PB-BR



Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism	Minimum Operating Temp	
5.17	BAR	567	LPM	94.5	LPM	38.1	MM	2.948	KG	Elastodog	-30	°C
75	PSI	150	GPM	25	GPM	1-1/2	IN	6.5	LBS	Clips		

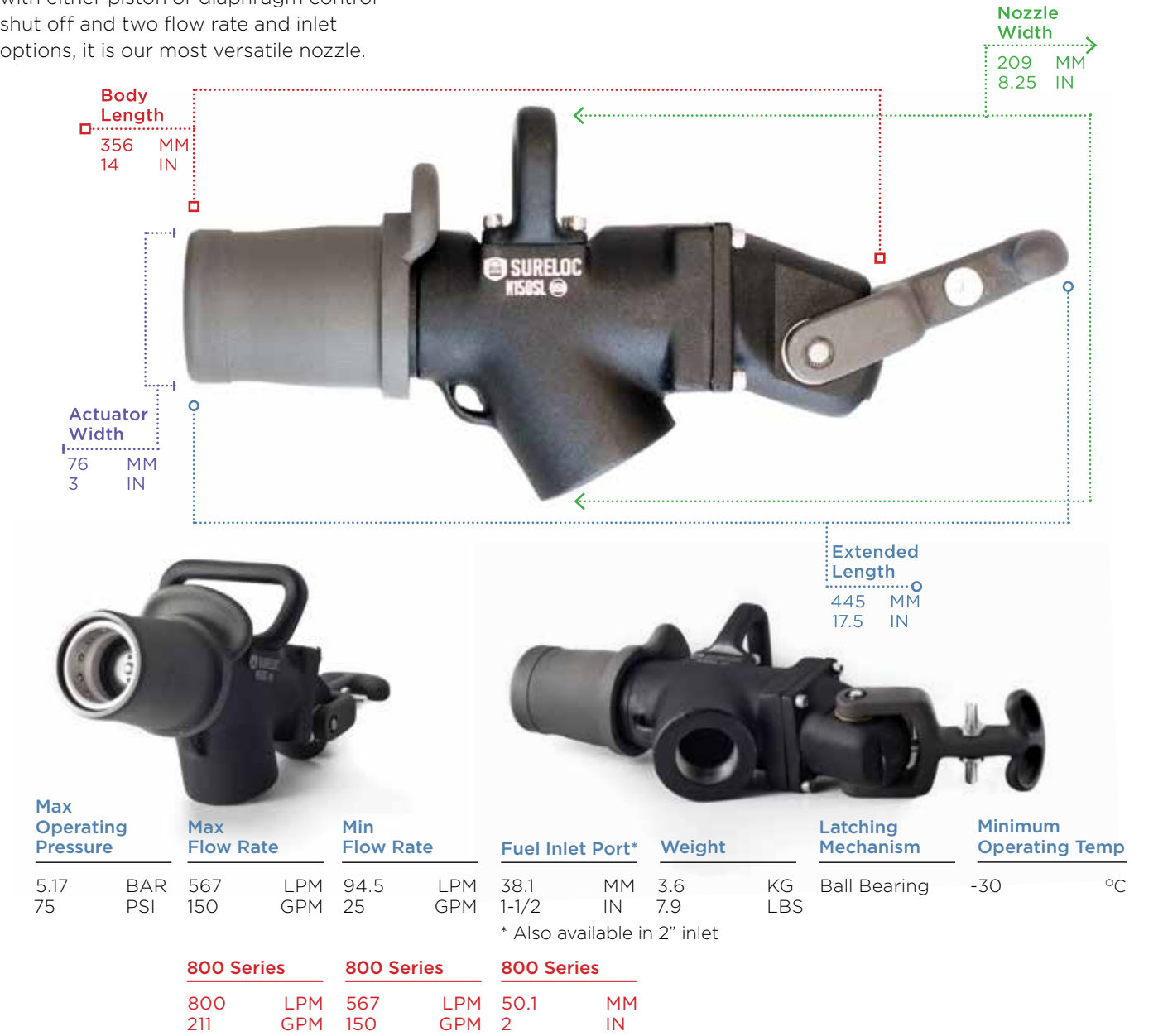
FS-N150PSLp


The Sureloc diesel fuel nozzle has proven reliable even in the harshest environments. It is customisable to meet specific needs. Its durable, all-metal construction and thick wall main housing makes it optimal for heavy duty operations. The latching mechanism consists of twelve stainless steel ball bearings for a secure latch. Available with either piston or diaphragm control shut off and two flow rate and inlet options, it is our most versatile nozzle.

- Powder coated non-slip finish for better grip.
- Sturdy build for greatly increased lifespan.
- Ball bearing latching for secure connection.
- Withstands extreme temperatures.

Variations

Standard with plug	FS-N150SLp
Diaphragm Driven	FS-N150SL
2" Fuel Inlet	FS-N150SL-2
2" High Flow 800 LPM/ 211 GPM	FS-N150SL800
	FS-PSL800







Fuel Adaptor

FS-A150A, FS-A150B, FS-A150C

Used to splash fill a tank with any fast fill nozzle.






Straight Hose Swivel

FS-S150, FS-S200, FS-S215

Straight hose swivels with all aluminium construction.



FS-N150Tp

The Titan diesel fuel nozzle blends elements from our Pitboss fuel nozzle with a compact design to create the most compact, lightest diesel fuel nozzle in the industry. In addition to the Elastodog latching mechanism and piston-driven shut off, the field replaceable piston cartridge allows the end-user to bring a worn nozzle back to life.

- Powder coated non-slip finish for better grip.
- Compact, light weight design.
- Elastodog latching.
- All metal construction.

Cartridge

In field repair cartridge FS-N150TRC



Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism	Minimum Operating Temp	
5.17	BAR	567	LPM	94.5	LPM	38.1	MM	2.645	KG	Elastodog	-30	°C
75	PSI	150	GPM	25	GPM	1-1/2	IN	6.625	LBS	Clips		



FS-R150SW

Deep
Socket
Tool

The FS-R150SW, 2-1/2" deep socket tool is used to install new and remove worn down or damaged receivers



FS-AB2

Breakaway
Coupler

Hose safety breakaway coupler with female NPT threads. Available in following sizes: 1", 1.25", 1.5", 2", 3", and 3.25".




FS-N150Rp

The Raptor combines the best features of our nozzles. It has an Elastodog latch for dirty conditions. It has a sturdy build for better durability.

- Pitboss's latching for easier coupling, even in dirty conditions.
- Sureloc's sturdy build for better durability.



Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism	Minimum Operating Temp	
5.17	BAR	567	LPM	94.5	LPM	38.1	MM	3.629	KG	Elastodog	-30	°C
75	PSI	150	GPM	25	GPM	1-1/2	IN	8	LBS	Clips		
		800 Series		800 Series		800 Series						
		800	LPM	567	LPM	50.1	MM					
		211	GPM	150	GPM	2	IN					




FS-FFF4C

Weld-On Flange

Weld-on flange which provides a recessed, protected fill point. The flange has 2" female threads and accepts the FS-R150S standard fuel receivers, FS-R150CV, or FS-PLA 150-M SV.





FS-FFF5C

Bolt-On Flange

Bolt-on flange which provides a recessed, protected fill point. The flange has 2" female threads and accepts the FS-R150S standard fuel receivers, FS-R150CV, or FS-PLA 150-M SV. 5-5/16" x 7/16" bolt pattern.





FS-R150CVc

A patented Check Valve Receiver allows fuel to flow in only one direction. Once installed, receivers can be replaced without draining the tank. Spray back from poppet malfunction is eliminated. Fuel theft is minimised. The Check Valve Receiver is compatible with all major manufacturers' nozzles.



FS-R150CVSW

Check Valve Wrench

This Check Valve Installation Wrench facilitates installation or removal of the FS-R150CV. The open back design also allows it to be used with FS-R150SW to install or remove the FS-R150CVR.



Max Operating Pressure

5.17 BAR
75 PSI

Safety

Eliminates potential fuel spray.

Construction

Nickel plated steel. Anodised aluminium.

Engineering

Replace receiver without draining tank.

Engineering

Prevents fuel theft.

Thread Size

2" NPT

Replacement Receiver



FS-R150CVRc



FS-R150Sc

Our standard diesel fuel receiver is made from solid steel and is nickel-plated to ensure a long service life. Designed to accommodate flow rates up to 800 LPM (211 GPM), Fast Fill Systems fuel receivers are completely compatible with all major manufacturers' diesel fuel nozzles. Available shut off options: 7, 9, 11, and 12 PSI.



Max Operating Pressure

5.17 BAR
75 PSI

Compatibility

Compatible with all major fuel nozzle manufacturers.

Construction

Nickel plated steel. Anodised aluminium.

Engineering

Aluminium poppets instead of plastic.

Engineering

Custom shut off pressures available.

Thread Size

2" NPT

Available in Aluminium



FS-R150SAC

Fuel Vents

Standard diesel fuel vents are crucial to the performance of your fuel nozzle. A standard fuel system needs tank pressure to cause the nozzle to shut off. Our all metal construction fuel vents provide excellent durability and versatility with more than 100 different configurations available. A 2" NPT port on top of tank is required.



FS0-V150

Standard Fuel Vent

The basic fuel vent. Available with a standard 5" stem, available with 7" (FS-V150L7) and 12" (FS-V150L12) stems as well.



FS-V150D

Anti Vandalism Flange

Reduces fuel theft and tank vandalism. Under-side is threaded with bolt pattern on top. This locks the vent in place. Bolts not included. Not compatible with FS-V150W.



FS-V150SR

Safety Relief Fuel Vent

Used with the FS-V150 where additional over-fill relief is needed. Has a safety relief valve to protect tank from over filling if a nozzle fails. Opens up tank when pressure hits over 13 PSI.



FS-V150W

Whistle Adaptor

Whistles when tank reaches internal pressure of 5-7 PSI. This creates a clear signal to operator that nozzle should be shutting off.



FS-V150A

Half Coupling

2" FNPT steel half coupling included. This vent is commonly used in retrofit applications where the required 2" NPT port did not exist. (Requires welding)



FS-V150C

NPT Adaptor

Allows for easy hose attachment with a 1" FNPT swivel adaptor on the opening of the vent cap. This method is more durable and seals tighter than the hose barb attachment.



FS-V150B

Bolt-on Flange

Bolt on 2" NPT flange included. Commonly used where 2" NPT ports are not available. Drill and tapping is required. Cork seal included, bolts are not.



FS-V150H

High Flow Vent

Designed for fuel rates exceeding 150 GPM, capable of reaching 300 GPM. Compatible with all vent configurations.



Filter Vents

Protect your tank from atmospheric dust accumulation. The dual check valve system allows air to freely vent from the tank through the large vent check valve at rates up to 300 GPM, and directs all air entering the tank through the 3 micron filter media.



FS-FFV150-PL

Direct Mount Filter Vent

1" NPT direct mount configuration of our filter vent.



FS-FFV150-LP

Direct Mount Filter Vent

1" NPT direct mount configuration of our filter vent. Low profile.



FS-FFV150

Remote Mount Filter Vent

Universal mounting bracket for easy installation. Used for remote mounting.



FS-FFV150-HV VB

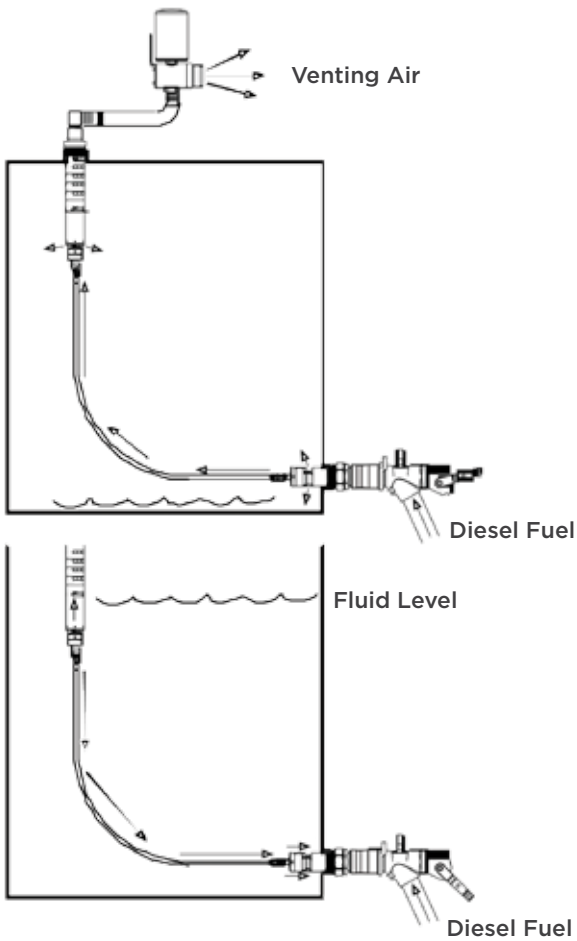
High Volume Vacuum Break

Vacuum break check valve for implosion protection. Discharges air at over 300 GPM. 2" Female NPT Inlet port. Vacuum break crack pressure: 1.5 PSI. Exhaust and breather check valve crack pressure: 0.25 PSI.



Pressureless Application

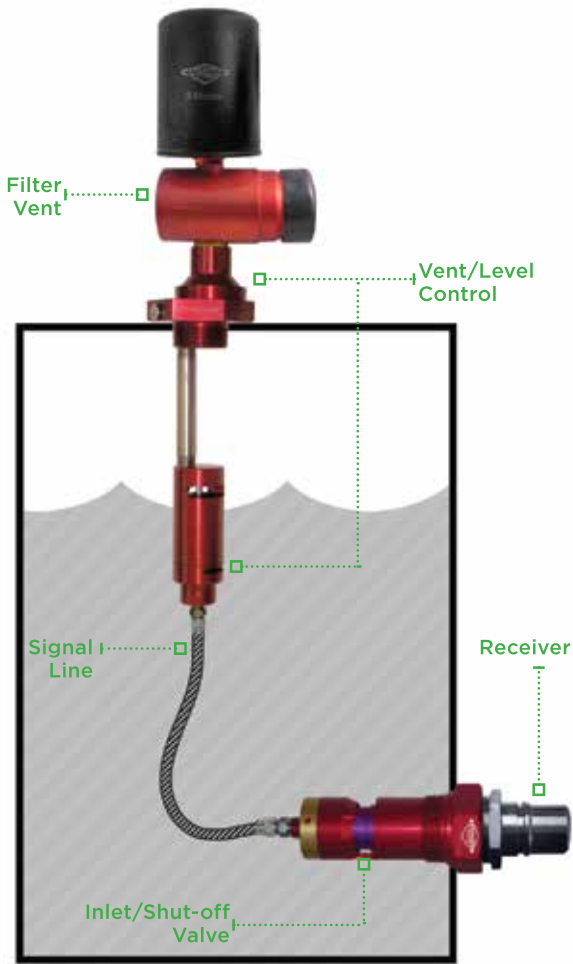
The Fast Fill Systems Pressureless Diesel Fueling System allows automatic shutoff without introducing pressure to the tank. This is a positive shut off system, which closes the shut off valve by sensing the fluid level in the tank.



This system was designed to be used with pressure sensitive nozzles such as the Fast Fill Systems Pitboss and Sureloc. For use with non-pressure sensitive nozzles such as our FS-N150SB bulk transfer nozzle, a pressure switch and time-delay relay on the pump system is recommended. The pressure switch and time-delay relay act as a safeguard against dead-head conditions when the shut off valve closes.

FS-PLP-6

Signal Line Our Teflon and stainless steel braided signal line can be used both internally and externally. Standard length of 10'. Custom sizes available.



FS-PLA150-M VLCE

Vent/Level Control

The vent/level control system operates using 5" long, 1/2" NPT piping, allowing for compatibility with more than 80% of heavy equipment used worldwide. 5" length pipe can be extended by cutting and threading a 1/2" pipe to reach the desired shut off level. The VLCE includes extra 1/2" pipe nipples that comes in 2" and 3" lengths and the necessary Loctite thread lock to secure your pipe. Other features include external and internal signal line ports and integrated roll over spill protection. The VLCE is precisely engineered to function on the largest tanks with only 4" of operating space. 16" of clearance required for installation.



Max Operating Pressure

517	kPa
75	PSI

Min Operating Pressure

35	kPa*
5	PSI

Min Flow Rate

95	LPM
25	GPM

Max Flow Rate

568	LPM
150	GPM
800	LPM*
200	GPM*

Diesel Fuel Nozzle Shut off Pressure

48	kPa
7	PSI

* Requirement at the nozzle. Additional plumbing between the pump and the diesel fuel nozzle will add additional pressure drop to the system.

*Flow rates of 200 GPM/ 800 LPM possible when used with diesel fuel nozzles rated for such, e.g. FS-N150SL800



FS-PLA150-M SV

**Inlet
Shut off
Valve**

The typical inlet/shut off valve for a Pressureless system. Designed to be mounted directly to the tank. Requires 2" NPT on the tank and 8-10" of space for installation. 211 GPM max. A receiver may be mounted directly or remotely to the valve (see FS-AD150 and FS-AD150J).



FS-PLA150-M SVEBH

**Inlet
Shut off
Valve**

Flange mounted shut off valve with 6 bolt pattern designed to replace the FFF5C bolt-on bellhousing. External #6 JIC signal line connection.



FS-PLA150-M RRM2

**Remote
Mount
Can**

Designed to remotely mount the entire shut off valve and receiver. Receiver (R150CVRc-J) is included. External #6 JIC signal line connection.



FS-PLA150-M SV61-E

**Inlet
Shut off
Valve**

Flange mounted shut off valve with 6 bolt 5-3/4" pattern with 2" Code 61 hose mount for remote mounted receiver. External #6 JIC signal line connection.



FS-PLA150-M SV FE

**Inlet
Shut off
Valve**

Flange mounted shut off valve with 6 bolt 5-3/4" pattern. Includes 2-Piece direct mount receiver and external #6 JIC signal line connection.



FS-PLA150-M EP

**Evac
Port**

Receiver replacement evacuation port allows draining of the fuel tank from the standard fill point using a Fast Fill Systems diesel fuel nozzle or our FS-N150SB bulk transfer nozzle.



FS-PLA150-M VF

**Receiver
Flange**

CAT 120mm 6-bolt vent flange.



FS-AD150J

**2" JIC
Adaptor**

Used to adapt from the proprietary thread in our shut off and check valves to a 2" Male JIC.



FS-AD150

**2" NPT
Adaptor**

Used to adapt from the proprietary thread in our shut off and check valves to a 2" Female NPT.



FS-N150SB

**Bulk
Nozzle**

Provides a higher flow rate than conventional high-flow nozzles for bulk filling. Constructed from aluminium. Has 12 stainless steel latching balls, 2 wiper seals, and actuating ring with non-slip knurled surface.



FS-R150-TL70-J

**Twist
Lock
Receiver**

2 Piece .70mm "Twist Lock" receiver for pressureless applications.



FS-PLA150-M PTF

**Plastic
Tank
Adaptor**

2" NPT adaptor is designed for plastic fuel tanks. Provides the 2" NPT necessary for Pressureless systems.



FS-PLA150-M PTSF

**Plastic
Tank
Adaptor**

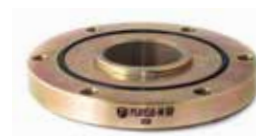
2" NPT adaptor for plastic fuel tanks. Works well with CAT plastic tanks and fits most CAT splash fill caps.



FS-PLA150-M RF

**Receiver
Flange**

2" NPT 6-bolt pattern receiver flange fits CAT 5 3/4" PT#221-5303





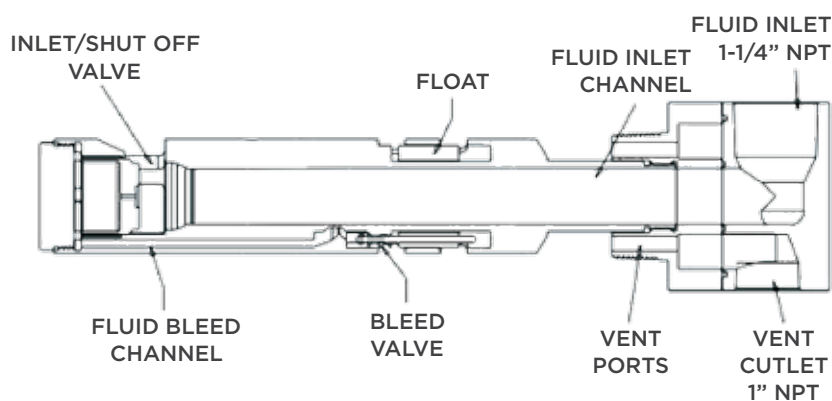
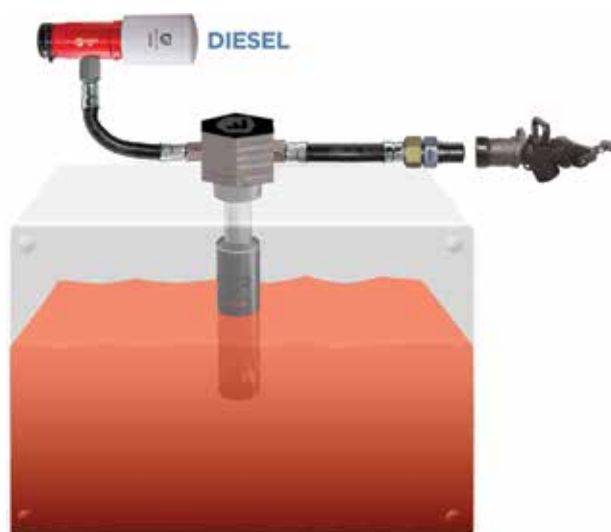
FS-PLA80-SVLC

Small Tank Pressureless

The FS-PLA80 brings Pressureless fueling to applications where it was once unavailable. This all-in-one drop in system fits standard 2" NPT inlets and enables individual tank fill and shut off for single or multi tank configurations. Once the fuel level reaches 90-95% capacity, each tank will automatically shut off, eliminating under/over filling. The auto shut off feature works with all standard fuel nozzles (up to 80 GPM). With filtered venting and a dry break fill point, contamination is dramatically decreased. This product is ideal for agriculture, small construction, oil extraction and mass transit equipment because of its compact design and ease of installation.

Features

- System easily monitored
- Fills and vents through the same unit
- Completely pressureless operation
- Automatic independent tank shut off
- Remote receiver mounting
- Remote or direct filter vent mounting
- 1-1/4" FNPT fuel inlet threads
- 1" FNPT vent port threads
- Standard weight: 3.92 lbs | 1.78 kg



Max High Flow Rate

302 LPM
80 GPM

Max Standard Flow Rate

151 LPM
40 GPM

Min Flow Rate*

19 LPM
5 GPM

Max Operating Temperature

150 °F
65.6 °C

Min Operating Temperature

-30 °F
-34.4 °C

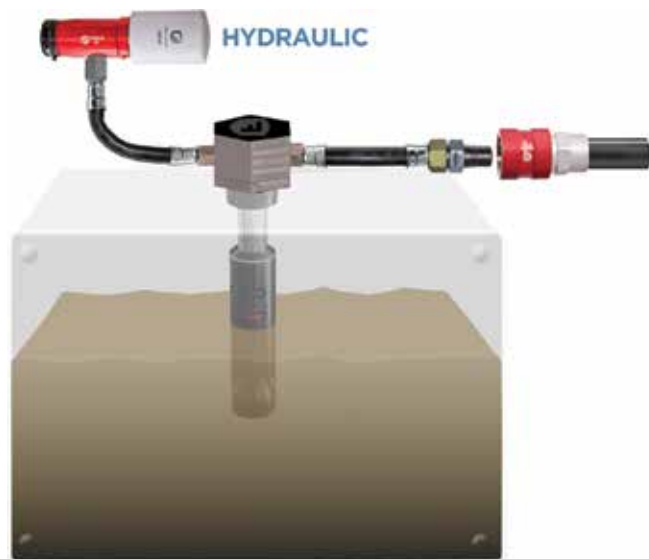
* Check Minimum flow rate for nozzle.



FS-PLA80 Hydraulic Application

Hydraulic Pressureless

The same FS-PLA80 that we developed for small tank diesel applications has been tested and configured for use with hydraulic fluid and diaphragm pumps. Using the FS-R150Sc and FS-SB150, hydraulic tanks can be reliably filled with pressureless shut off up to 125 psi pump pressure. Flow rate will vary depending on the viscosity of the fluid.



Max Operating Temperature

150° F
65.6° °C

Min Operating Temperature

-30° F
-34.4° °C

Max Hydraulic Operating Pressure

125 PSI

Standard Couplers

Four widely used couplers have been the industry standard for decades. They were designed for transferring the primary fluids used on heavy equipment: Crankcase, Coolant, Hydraulic and Transmission fluids. Nozzle and receiver pairs only connect with their corresponding size and colour.



FS-OS100

Oil Sampling Valve

The oil sampling valve is used with an existing crankcase line to allow oil samples to be drawn.



Crankcase



FS-N100p



FS-R100c



FS-R100Jc

Operating Pressure

34.5 BAR
500 PSI

Burst Pressure

103.4 BAR
1500 PSI

Flow Area

.3051 SQ IN

Nozzle Thread

3/4" MNPT

Receiver Thread

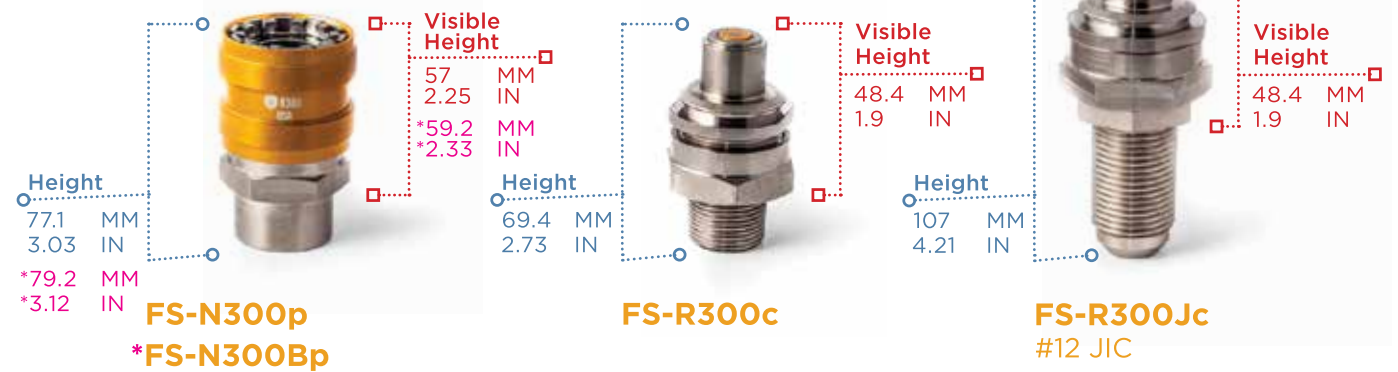
3/4" MNPT

Latching Mechanism

Pin latching



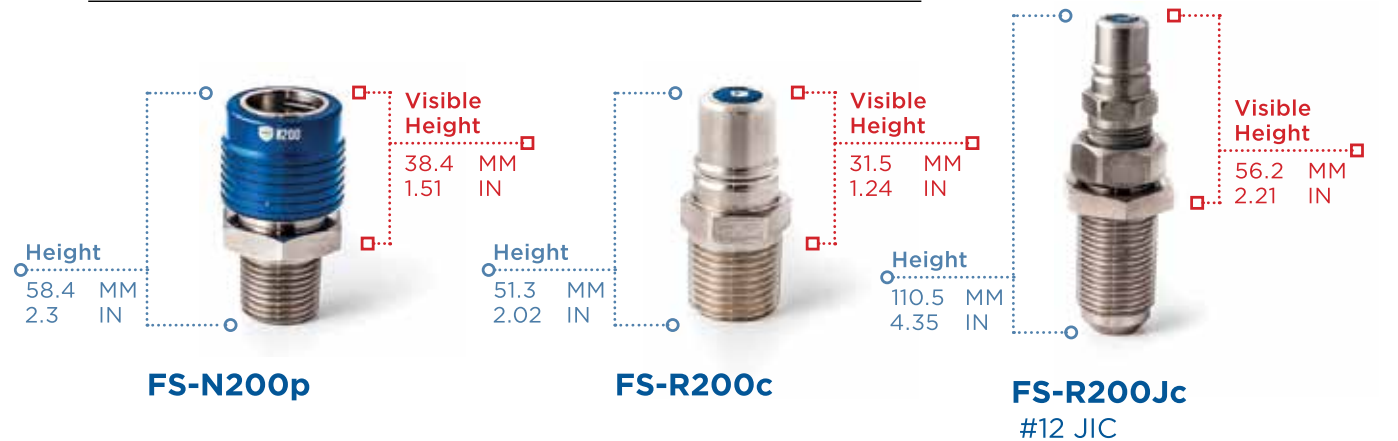
Hydraulic



Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.2212	SQ IN	3/4"	FNPT	3/4"	MNPT	Dog Teeth
500	PSI	1500	PSI	.2212	SQ IN					*Ball Bearing



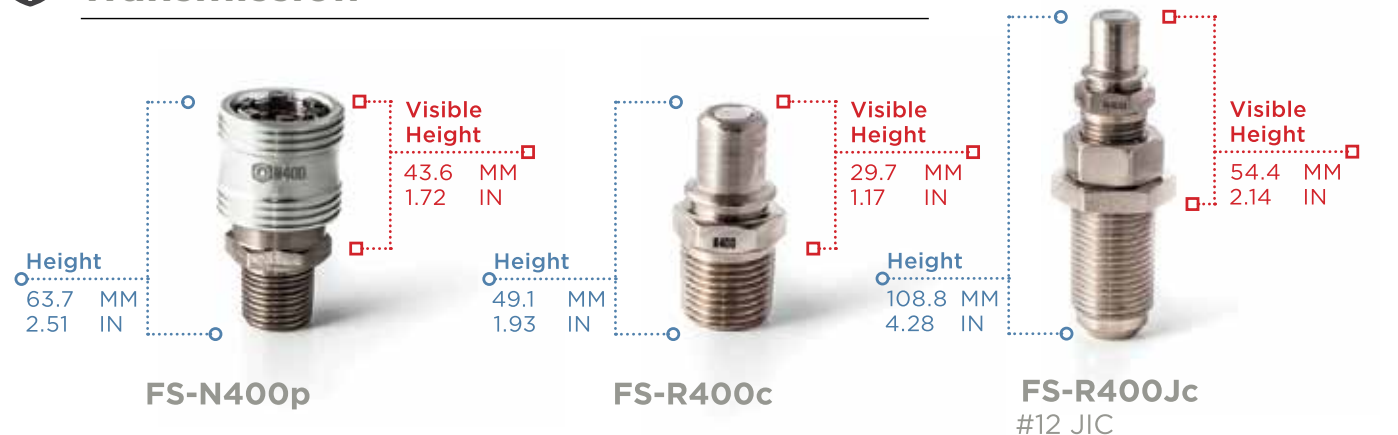
Coolant



Max Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.1122	SQ IN	1/2"	MNPT	1/2"	MNPT	Pin latching
500	PSI	1500	PSI							



Transmission



Max Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.1136	SQ IN	1/2"	MNPT	1/2"	MNPT	Dog Teeth
500	PSI	1500	PSI							

R Series Couplers

Used for remote bulk-head mounting for common fluids. The receiver's dual threads are designed to allow bulk-head mounting using the male thread and connection of a hose to the leak-free female ORB thread. R series couplers DO NOT connect with Standard couplers.

Universal Couplers

For both Crankcase and Coolant, these Universal Nozzles fit Standard and R-Series Crankcase and Coolant Receivers.



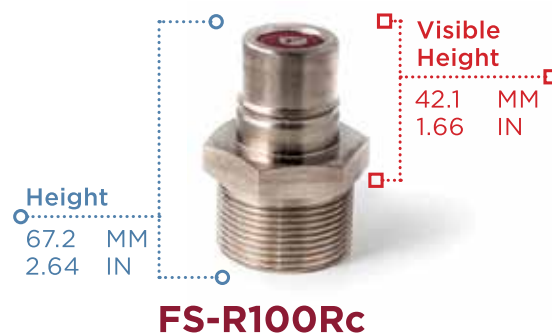
FS-N100U



FS-N200U



Crankcase



Operating Pressure		Burst Pressure		Flow Area	Nozzle Thread		Receiver Thread	Latching Mechanism
34.5	BAR	103.4	BAR	.3640	3/4"	FNPT	OD 1-5/8" 12 TPI	Ball Latching
500	PSI	1500	PSI				ID 1-5/16" 12 TPI	



Hydraulic



Operating Pressure		Burst Pressure		Flow Area	Nozzle Thread		Receiver Thread	Latching Mechanism
34.5	BAR	103.4	BAR	.4207	3/4"	FNPT	OD 1-7/8" 12 TPI	Ball Latching
500	PSI	1500	PSI				ID 1-5/8" 12 TPI	



FS-SB100

Service Box

Boxes can be configured to house any number or type of receivers. By consolidating the location of couplers, speed and safety are increased.



Coolant



FS-N200Rp



FS-R200Rc

Max Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.1361	SQ IN	1/2"	FNPT	OD 1-3/16" 12 TPI	ID 7/8" 14 TPI	Ball Latching
500	PSI	1500	PSI							



Transmission



FS-N400Rp



FS-R400Rc

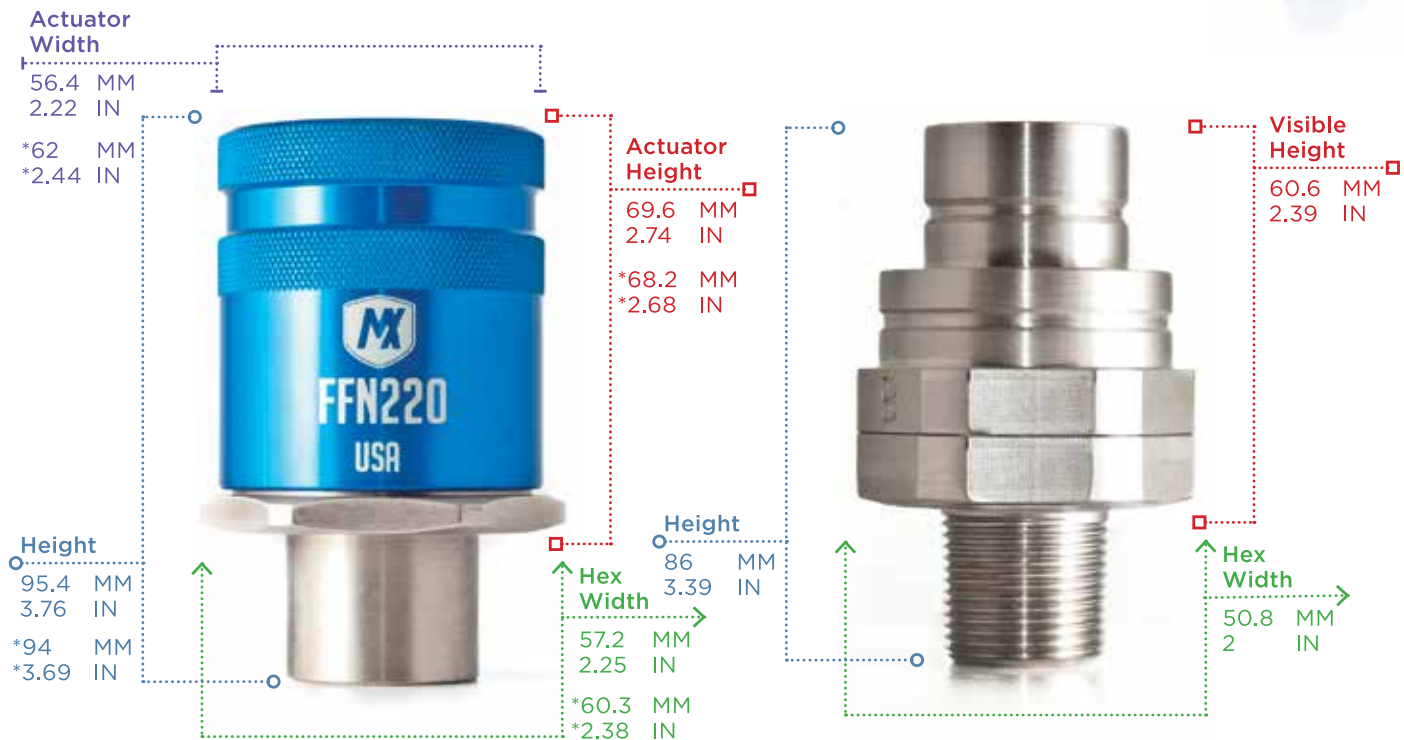
Max Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.2285	SQ IN	3/4"	FNPT	OD 1-5/16" 12 TPI	ID 1-1/16" 12 TPI	Ball Latching
500	PSI	1500	PSI							

Flat Face Matrix 200 Series

The Matrix Flat Face coupling line is the ultimate solution in no-hassle, contaminate free filling. The “Flat Face” surface on the nozzle allows ease in wiping the dust and dirt from the front end of the nozzle, before coupling, to ensure contaminant-free fluid delivery. The “Flat Face” series includes 13 colour-coded nozzles and receivers designed to physically interlock with only their respective matching colour.

FS-FFET 290

One way evac tool acts as a master key to drain all receivers in Flat Face series.



FS-FFN210	FS-FFN220	FS-FFN230	FS-FFN240	FS-FFN245	FS-FFN250	*FS-FFN255	FS-FFN260	FS-FFN265	FS-FFN270	*FS-FFN275	*FS-FFN280	*FS-FFN285
FS-FFR210	FS-FFR220	FS-FFR230	FS-FFR240	FS-FFR245	FS-FFR250	FS-FFR255	FS-FFR260	FS-FFR265	FS-FFR270	FS-FFR275	FS-FFR280	FS-FFR285
GREEN	BLUE	PURPLE	GREY	TEAL	ORANGE	CLEAR	YELLOW	BROWN	RED	PINK	GOLD	GUNMETAL BLUE

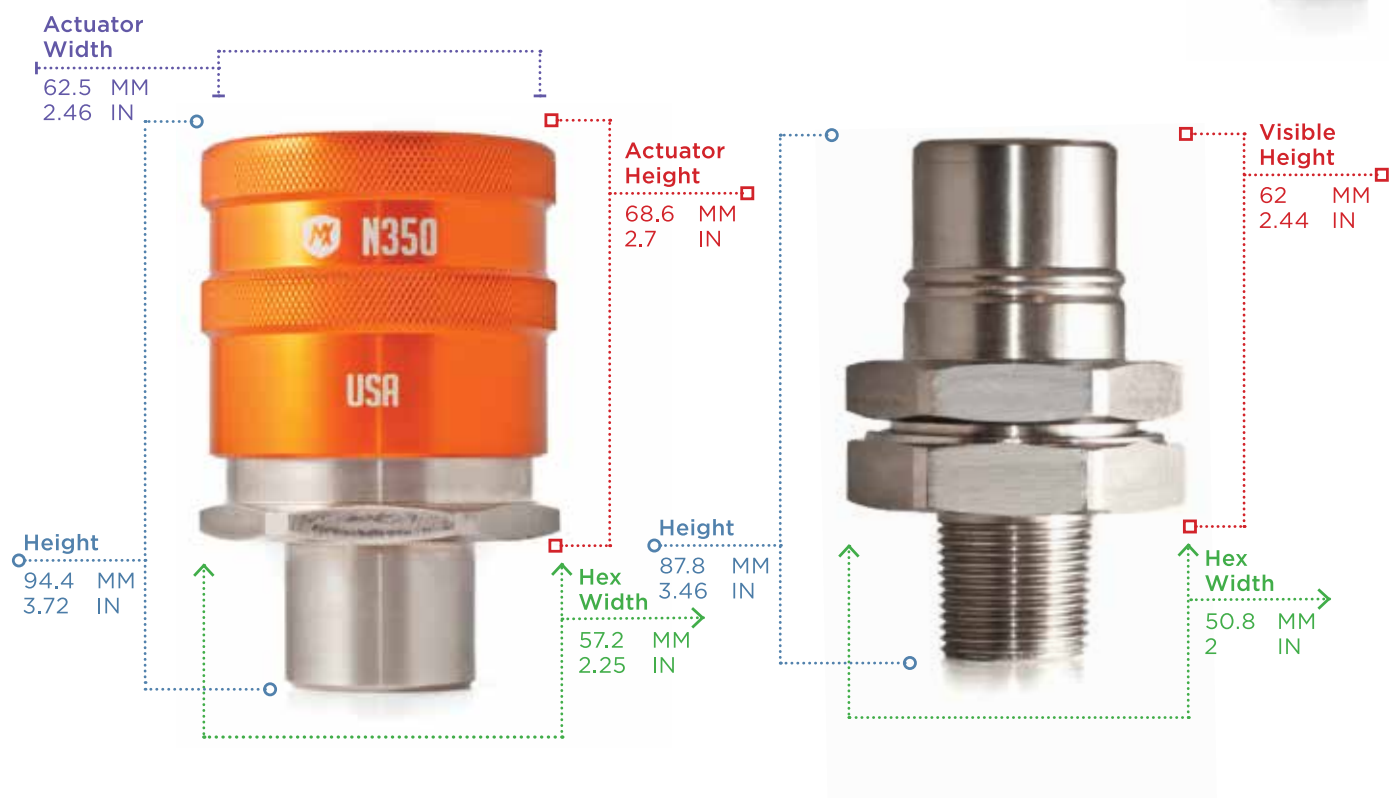
Operating Pressure	3/4" Thread	Construction	JIC	Caps Recommended
103 BAR 1500 PSI	Nozzle FNPT ReceiverMNPT	Anodised aluminium. Nickel plated steel. Colour coded and keyed to prevent cross contamination.	All receivers are capable of a JIC fitting.	

Matrix 300 Series

Matrix 34 is a series of proprietary couplers designed to prevent cross-contamination of fluids. Matrix couplers work at a higher pressure and flow rate than standard couplers. Each of the 10 nozzles and receivers in the matrix line is colour-coded and designed to physically interlock with only its matching colour.

FS-ET 290

One way evac tool acts as a master key to drain all 300 series receivers.



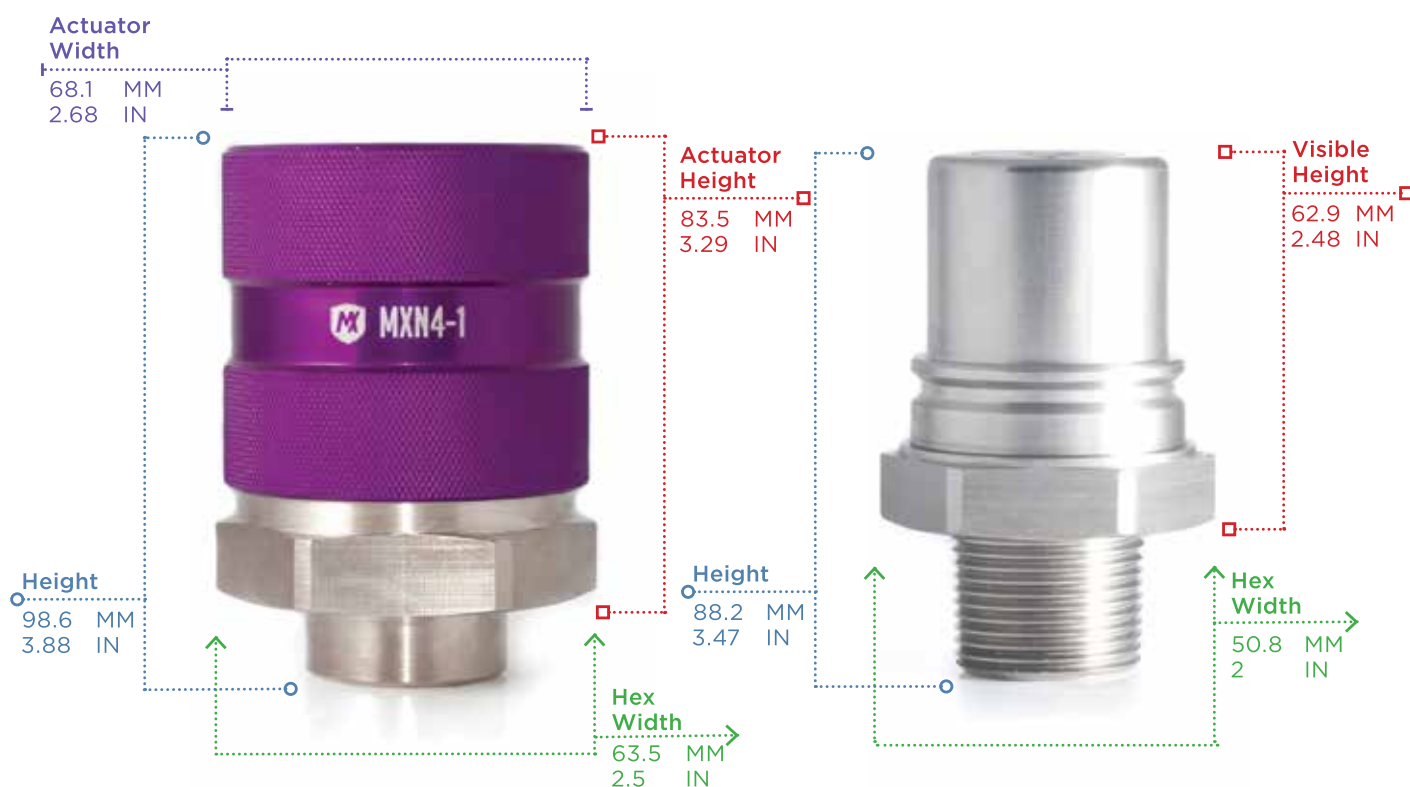
Operating Pressure		3/4: Thread		Construction	JIC	Caps & Plugs Recommended
103	BAR	Nozzle	FNPT	Anodised aluminium. Nickel plated steel. Colour coded and keyed to prevent cross contamination.	All receivers are capable of a JIC fitting.	
1500	PSI	Receiver	MNPT			

MX High Flow Series

Fast Fill Systems now offers the next generation of High Flow Dry-Break Couplers. Constructed from steel for sure latching and durability, the MX-Series comes in 7 different Nozzle-Receiver pairs that can only be connected to their matching colours, eliminating any possibility of cross-contamination. With a robust, grip enhancing actuating ring and solid aluminium caps and plugs, these 1" Dry-Break connectors have been engineered for more than just high flow rates - they are engineered to last!

FS-MXET-1

Evac tool acts as a master key to drain all receivers in MX series.



FS-MXN1-1 FS-MXN2-1 FS-MXN3-1 FS-MXN4-1 FS-MXN5-1 FS-MXN6-1 FS-MXN7-1
 FS-MXR1-1 FS-MXR2-1 FS-MXR3-1 FS-MXR4-1 FS-MXR5-1 FS-MXR6-1 FS-MXR7-1
 RED YELLOW TEAL PURPLE BLUE COPPER GREY

Operating Pressure

34.5 BAR
 500 PSI

1" Threads

Nozzle FNPT
 Receiver MNPT

Construction

Anodised aluminum. Nickel plated steel. Color coded and keyed to prevent cross contamination.

Caps & Plugs Recommended



FS-GN210 | FS-GR210

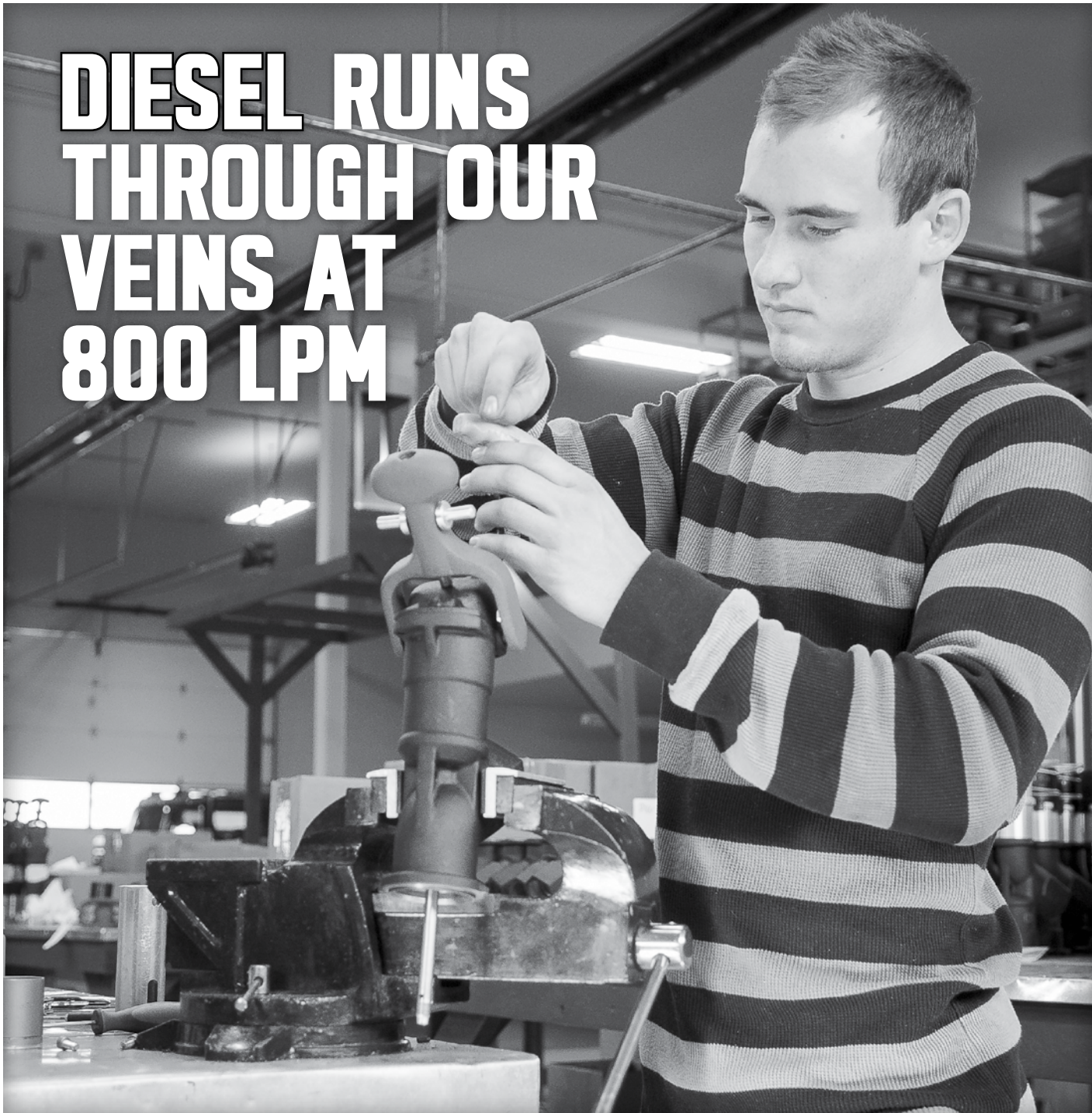
The Grease Matrix is a revolutionary patent pending product. This is the first flat-face dry break coupler that will connect and disconnect while maintaining supply pressure. This bulk filling grease coupler will perform with greater efficiency and safety. The system will not allow grease transfer until the couplers are connected properly. This coupler is available in 3/4", with a maximum deadhead pressure of 5,000 PSI at the integrated ball valve.

***Not for use with pressurised or auto-shut off systems.**



Operating Pressure		3/4" Thread	Construction	Engineering	Engineering	Caps & Plugs Recommended
345	BAR	Nozzle FNPT	Nickel plated steel. Anodised Aluminium.	Dimple & groove guide system.	Connects and disconnects under line pressure.	
5000	PSI	Receiver MNPT				

DIESEL RUNS THROUGH OUR VEINS AT 800 LPM



Nozzle Rebuilds

Nozzle Tech's rebuild service is more than cleaning parts and lubing seals. Our trained technicians inspect nozzles inside and out. After troubleshooting, the nozzle is rebuilt with new parts, polished, and powder coated. Some say a refurbished nozzle works even better than a new one. Send us your used nozzles today.







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