

FAST FILL SYSTEMS

PRODUCT CATALOGUE



NOZZLES

ATLAS NOZZLE



FS - N150AT	Atlas Fuel Nozzle w/Stainless Steel Castle
FS- N150AT-A	Atlas Fuel Nozzle w/Aluminium Castle
Flow Rate Max	567 LPM / 150 GPM
Flow Rate Min	94.5 LPM / 25 GPM
Inlet Port	1-1/2" NPT Female
Material	Stainless Steel & Aluminium
Latch Mechanism	12 Stainless Steel Ball Bearing

Durable stainless steel at critical points.
Fast Fill Systems standard double front seal.
Configureable to be the industry's lightest nozzle with aluminum front end.
Compact and ergonomic, cut out unnecessary bulk.

***Accessories:**

FS-P150 Plug & Lanyard
FS-P150S Steel Plug & Lanyard



SURELOC NOZZLE



FS-N150PSL800	2" High Flow 800 LPM SureLoc Refuelling Nozzle
Flow Rate Max	800 LPM / 212 GPM
Flow Rate Min	Pressurised Diesel Tanks = 125 LPM/33 GPM Pressureless Diesel Tanks = 95 LPM/25 GPM
Inlet Port	2" NPT Female
Material	Heat-Treated Aluminium
Latch Mechanism	12 Stainless Steel Ball Bearing

Most precise nozzle, strongest latching mechanism, best used for heavy-duty applications. Most common nozzle in the market

***Accessories:**

FS-P150 Plug & Lanyard
FS-P150S Steel Plug & Lanyard

SURELOC 1000LPM NOZZLE



FS-N1000PSLP	High Flow 1000 LPM SureLoc Refuelling Nozzle
Flow Rate Max	1000 LPM / 263 GPM
Flow Rate Min	Pressurised Diesel Tanks = 125 LPM/33 GPM Pressureless Diesel Tanks = 95 LPM/25 GPM
Inlet Port	2" NPT Female
Material	Heat-Treated Aluminium
Latch Mechanism	12 Stainless Steel Ball Bearing

Rated for flow rates up to 1000 LPM utilizing the robust Piston Sureloc design.

***Requires:**

FS-PLA1000-MVLCE	1000 LPM Vent/Level Control
FS-PLA1000-MSV	1000 LPM Shut Off Valve
FS-R1000CVRC-J	1000 LPM Receiver

***Accessories:**

FS-P1000PSL Plug & Lanyard



PIRTEK HIGHLY RECOMMEND THE USE OF PLUGS AND CAPS ON ALL NOZZLES AND RECEIVERS TO PREVENT CONTAMINATION AND PREVENT YOUR EQUIPMENT.

NOZZLES

PITBOSS NOZZLE



FS-N150PB
FS-N150PBHD
FS-N150PB-BR
FS-N150PBU
Flow Rate Max
Flow Rate Min

Inlet Port
Latch Mechanism

Pit Boss Refuelling-Nozzle Heat-Treated Aluminium
Pit Boss Heavy-Duty Refuelling Nozzle All-steel
Pit Boss Refuelling Nozzle-Brine Resistant
Pit Boss Under Ground Refuelling Nozzle-Bronze
567 LPM/150 GPM
Pressurised Diesel Tanks = 125 LPM/33 GPM
Pressureless Diesel Tanks = 95 LPM/25 GPM
1 1/2" NPT Female
Elastodog

Most forgiving latching mechanism for dirty conditions, available in all-steel construction for underground mining. Most widely used nozzle.

*Accessories:

FS-P150 Plug & Lanyard
FS-P150S Plug & Lanyard- Steel
FS-P150BR Plug & Lanyard - Brine resistant



CLASSIC NOZZLE

FS-N150C
FS-N150C-2
Flow Rate Max
Flow Rate Min

Inlet Port
Material
Latch Mechanism

Classic Refuelling Nozzle
2" Classic Refuelling Nozzle
567 LPM/150 GPM
Pressurised Diesel Tanks = 125 LPM/33 GPM
Pressureless Diesel Tanks = 95 LPM/25 GPM

1 1/2" NPT Female

Metal
Metal Latching

All-metal standard nozzle, improved, yet traditional components, familiar and proven equipment, it has a long history in the heavy-equipment industry.

*Accessories:

FS-P150 Plug & Lanyard
FS-P150S Plug & Lanyard - Steel
FS-FN-SE-4 Classic wiper seal (O'ring)



RAPTOR NOZZLE



FS-N150R
Flow Rate Max
Flow Rate Min

Inlet Port
Material
Latch Mechanism

FS-N150R800
Flow Rate Max
Flow Rate Min

Inlet Port
Material
Latch Mechanism

Most precise shut-off mechanism with the most forgiving latching mechanism.

Raptor Refuelling Nozzle
567 LPM/150 GPM
Pressurised Diesel Tanks = 125 LPM/33 GPM
Pressureless Diesel Tanks = 95 LPM/25 GPM
1 1/2" NPT Female
Metal
Elastodog

2" High Flow Raptor Refuelling Nozzle
800 LPM/211 GPM
Pressurised Diesel Tanks = 125 LPM/33 GPM
Pressureless Diesel Tanks = 95 LPM/25 GPM
2" NPT Female
Metal
Elastodog

*Accessories:

FS-P150 Plug & Lanyard
FS-P150S Plug & Lanyard - Steel

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NOZZLES ACCESSORIES



SWIVELS

1



2 & 3



4 & 5



6



7



8



9



1 - FS-S75

Anodised Base
3/4" NPT Male x 3/4" NPT Female

2 - FS-S100

Anodised Base
1" NPT Male x 1" NPT Female

3 - FS-S125

Anodised Base
1 1/4" NPT Male x 1 1/4" NPT Female

4 - FS-AC3434

Anodised Base Multiplane Swivel 3/4" NPT Male x 3/4" NPT Female

5 - FS-AC1010

Anodised Base Multiplane Swivel 1" NPT Male x 1" NPT Female

6 - FS-S150

Gold Anodised Base
1 1/2" NPT Male x 1 1/2" NPT Female

7 - FS-S512

Blue Anodised Base
1 1/2" NPT Male x 2" NPT Female

8 - FS-S200

Blue Anodised Base
2" NPT Male x 2" NPT Female

9 - FS-S215

Purple Anodised Base
2" NPT Male x 1 1/2" NPT Female



FS-AWS34B Single Plane 3/4" BSP Male/Female

FS-AWS34 Single Plane 3/4" NPT Male/Female

FS-AWS10B Single Plane 1" BSP Male/Female

FS-AWS34B Single Plane 1" NPT Male/Female



BREAKAWAY COUPLERS

BREAKAWAY COUPLER

SIZE/THREAD TYPE

FS-AB34

3/4" NPT FEMALE

FS-AB1

1" NPT FEMALE

FS-AB14

1 1/4" NPT FEMALE

FS-AB15

1 1/2" NPT FEMALE

FS-AB2

2" NPT FEMALE



SPLASH FILL NOZZLES

FS-A150A

Straight Fuel Adaptor



FS-A150B

Elbow Fuel Adaptor



FS-A150C

45° Degree Fuel Adaptor



RECEIVERS & ACCESSORIES



FAST FILL RECEIVERS FS-R150



BLACK POPPET
A



BLUE POPPET
B



RED POPPET
D



PURPLE POPPET
E



GREEN POPPET
J

FS-R150

TABLE 1

TABLE 2

ACC

TABLE 1: REFERS TO THE MATERIAL OF THE RECEIVER

SUFFIX	DENOTES	APPLICATION / OTHER INFO
A	Aluminium Construction	2" NPT Male Thread – Used in all standard Industries Subject to High Wear Rate
S	Nickel-Plated Steel Construction	2" NPT Male Thread – Use in More Robust Applications.
SS	Stainless Steel Construction	2" NPT Male Thread

TABLE 2: REFERS TO RECEIVER SPRING RATING AND COLOUR

SUFFIX	DENOTES	APPLICATION / OTHER INFO
A	Black Poppet 9 psi Spring	Standard Receiver used on Diesel Tanks on trucks, etc. Used for Calibration of the refuelling nozzles. Used for direct mount on pressurised shut-off applications.
B	Blue Poppet 7 psi Spring	Mostly used in remote Fill point connections or High Head pressure applications where compensation for additional back pressure is required. EG: used in a Komatsu Excavator that is filling at ground level.
D	Red Poppet 11 psi Spring	Used for pressurised lower flow and negative head applications, usually below 300 LPM (80 GPM), or when the pump pressure is insufficient to cause full nozzle shut off.
E	Purple Poppet 13.5 psi Spring	The receiver used for Pressurised Systems, contains extra High Head & remote connection for Check Valves
J	Green Poppet 13.5 psi Spring	Most common Receiver for Pressureless Systems ONLY. Use for In-Tank or remote mounting.

FS-R150-TL70

70MM Twist Lock Fuel Receiver (Green)



RECEIVER CAP WITH LANYARD

PART NUMBER	DESCRIPTION
FS-C150	Plastic Cap – Fuel Receiver
FS-C150E	Plastic Cap – Fuel Receiver with eyelet
FS-C1502	Plastic Cap to suit Steel Fuel Receiver
FS-C150A	Aluminium Cap to suit Fuel Receiver
FS-C150AE	Aluminium Cap to suit Fuel Receiver with eyelet

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RECEIVERS & ACCESSORIES



FLUSH MOUNT BELL HOUSING ACCESSORIES

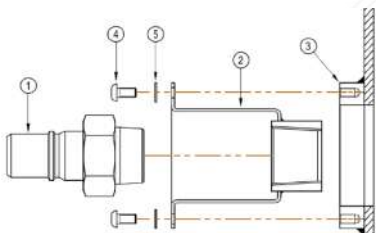
FS-FFF4C
Weld-on flange which provides a recessed, protected fill point.



FS-FFF5C
Bolt-on flange which provides a recessed, protected fill point.



FS-FFF6C
A weld-on flange that allows the FS-FFF5C bell housing to be bolted onto the diesel tanks.



Example of Installation		
1	FS-R150**	Fuel Receiver
2	FS-FFF5C	Flush Mount Bell Housing Bolted
3	FS-FFF6C	Tank Flange Welded to suit FS-FFF5C
4	Screws	Set of Screws to hold FS-FFF5C & FS-FFF6C
5	Washers	Washers



FS-FMF-SK

The fitting of a skirt (FS-FMF-SK) was introduced to eliminate the problem when flanged mounted diesel receivers are caked with dirt and mud



FS-C150BP

Example: FS-FFF4C & FS-C150BP



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

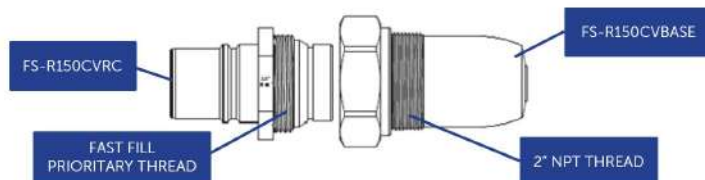
RECEIVERS & ACCESSORIES



CHECK VALVE



1 FS-R150CV Fuel Receiver Check Valve Without Cap – Black Poppet 9 PSIG Spring. Environmentally friendly, reduce receiver leaks, add safety, help (Also, available in Steel)



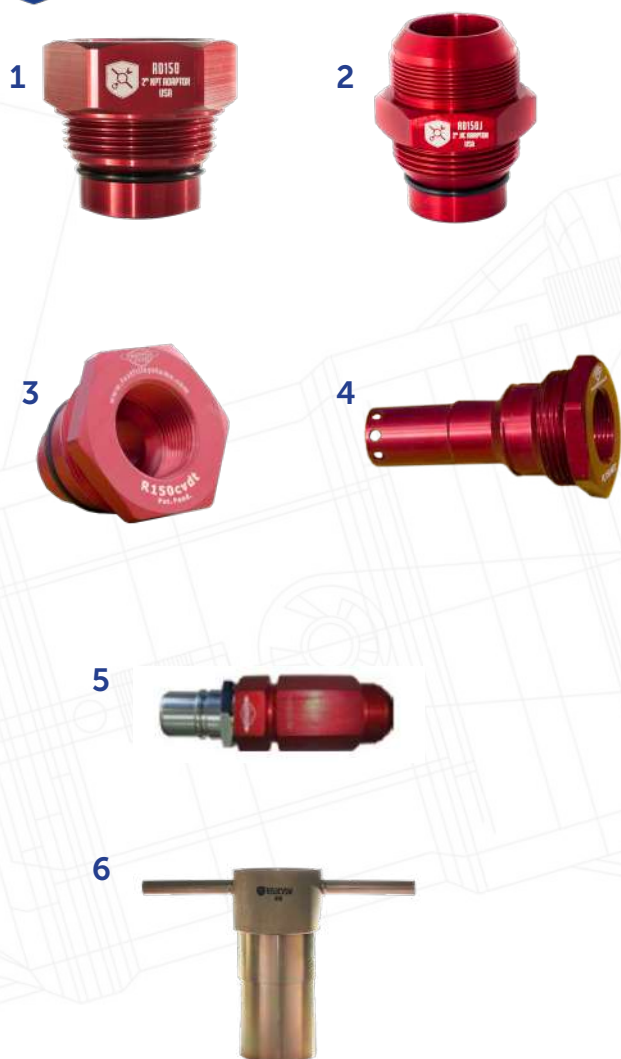
The maximum operating pressure of the unit is 5.17 BAR, 75 PSI

2 FS-R150CVR Check Valve Replacement Receiver With Black Poppet and 9 PSIG Spring for Pressurised and standard system, also available for pressureless systems FS-R150CVR-J. ****Note:** These units are not interchangeable with standard Receivers (FS-R150*)

3 FS-R150-TL70CV 70MM Twist Lock Fuel Receiver Check Valve



CHECK VALVE ACCESSORIES



1 FS-AD150 2" NPT

2" NPT Female x Male Proprietary Thread adaptor, for remote mounting.

2 FS-AD150J

2" JIC Male adaptor x Male Proprietary Thread to suit Receiver (FS-R150*), for remote Mounting.

3 FS-R150CVDT

Check Valve Drain Tool

4 FS-PLA150-MDT

Pressureless Drain Tool

5 FS-AD150JR

Adaptor 2" JIC Male x 2" NPT Female with Optional Indicator

****Note:** Receiver is sold separately.

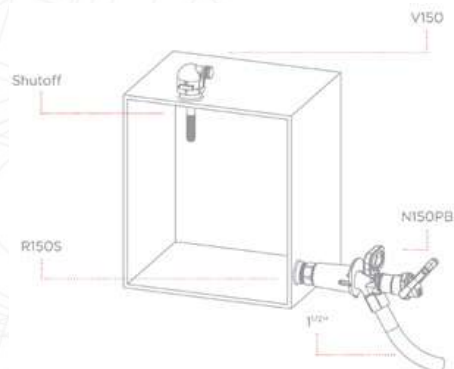
6 FS-R150CVSW

Check Valve Socket Wrench

PRESSURISED SYSTEM

Typical pressurised refuelling system consists of a tank fitted with a receiver (Please see Receiver section), a refuelling nozzle (Please see Nozzles and Accessories Section) and a specialty vent valve.

****NOTE:** A 2" NPT port on top of the tank is required.



STANDARD FUELLING VENTS



FS-V150 - 5 Inch Standard Fuel Vent
FS-V150L7 - 7 Inch Standard Fuel Vent
FS-V150L12 - 12 Inch Standard Fuel Vent

The basic fuel vent available with a standard 5", 7" (FS-V150L7), and 12" (FS-V150L12) stems. It's all aluminium construction and powder-coated finish which makes it light and durable.

FS-V150H – High Flow Vent

Designed for fuel rates exceeding 150 GPM (567 LPM), capable of reaching 300 GPM. (1135 LPM) Compatible with all vent configurations.



FS-V150SR – Safety Relief Valve Vent

Used with the FS-V150 where additional over-fill relief is needed. A safety relief valve protects the tank from overfilling if a nozzle fails. Crack pressure of 13 PSI.



FS-V150A - 5 Inch Standard Fuel Vent with half coupling
FS-V150AL7 - 7 Inch Standard Fuel Vent with half coupling
FS-V150AL12 - 12 Inch Standard Fuel Vent with half coupling

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





STANDARD FUELLING VENTS



FS-V150B – Bolt-On Flange
FS-V150BL7 – 7" Stem Bolt-On Flange
FS-V150BL12 – 12" Stem Bolt-On Flange

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

FS-V150C – Vent with 3/4" NPT Female Adaptor
FS-V150CL7 – 7" Stem Vent with 3/4" NPT Female Adaptor
FS-V150CL12 – 12" Stem Vent with 3/4" NPT Female Adaptor
FS-V150CAL7 – 7" Stem Vent with 3/4" NPT Female Adaptor and half coupling
FS-V150CAL12 – 12" Stem Vent with 3/4" NPT Female Adaptor and half coupling
FS-V150C-1 – Vent with 1" NPT Male Adaptor



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



FS-V150D - Anti-Vandalism Flange
FS-V150DL7 – Anti-Vandalism Flange 7" Stem Vent
FS-V150DL12 – Anti-Vandalism Flange 12" Stem Vent

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

FS-V150W – Vent with whistle adaptor

Whistles when the tank reaches internal pressures of 5-7 PSI. This creates a clear signal to the operator that the nozzle should be shutting off. Also, available with a 1" NPT Female Swivel adaptor on the opening of the vent cap.

*FS-WSL150 - Whistle for vent assembly



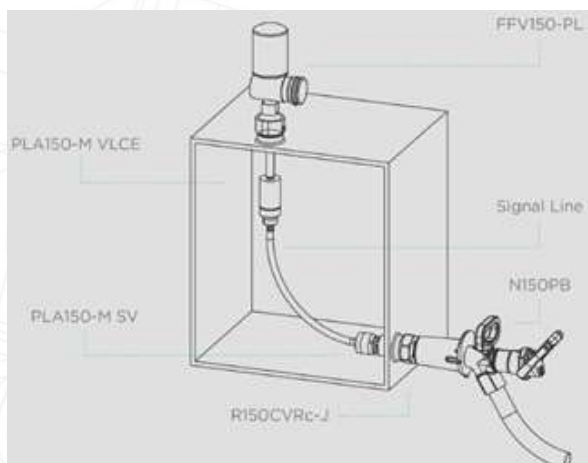
FS-V150F

Incorporates an airflow check valve to keep the grit out of your fuel tank, also includes a 3 micron air filter. As with the other vents, the standard level control stem length is 5" (Standard) but can be ordered in 7" or 12".

PRESSURELESS SYSTEM

ADVANTAGES

- Automatic shut-off without inducing pressure into the tank.
- Positive shut-off system senses the fluid level in the tank.
- Designed to work best with our SureLoc and PitBoss pressure-sensitive nozzles.
- Can be fitted with a pressure switch and time-delay relay to operate with non-pressure sensitive nozzles.
- Pressure switch and time-delay relay act as a safeguard against dead-head conditions once the shut-off valve closes.



LEVEL CONTROL



1 FS-PLA150-MVLCE Internal or external Signal-Line. Included in the VLCE is additional 2" and 3" 1/2" NPT Pipes and Loctite

2 FS-PLA150-MVLCEF Special Installation for CAT equipment with Plastic Tanks. (Also includes 2" and 3" Size pipe)

COMPONENTS ON THE VLC MODELS:

- A Roll Over Spill Protection
- B External Signal Line Port
- C 2" NPT Thread
- D 1/2" NPT, 5" Pipe
- E Internal Single Line Port

FS-PLA150-M-VLC4, Safety Vent.



FS-R150S-J

The Pressureless Receiver is made of Steel 2" NPT thread and have a Green poppet (13.5psi)



FS-R150CVR-J

Two-Piece Check Valve Receiver for Pressureless Systems, designed to work with FS-PLA1000-MSV.. Inlet shut off valve.

The 2-piece receiver is not interchangeable with the standard 2" NPT base diesel receiver.

Use the FS-AD150JR Adaptor for a remote install.





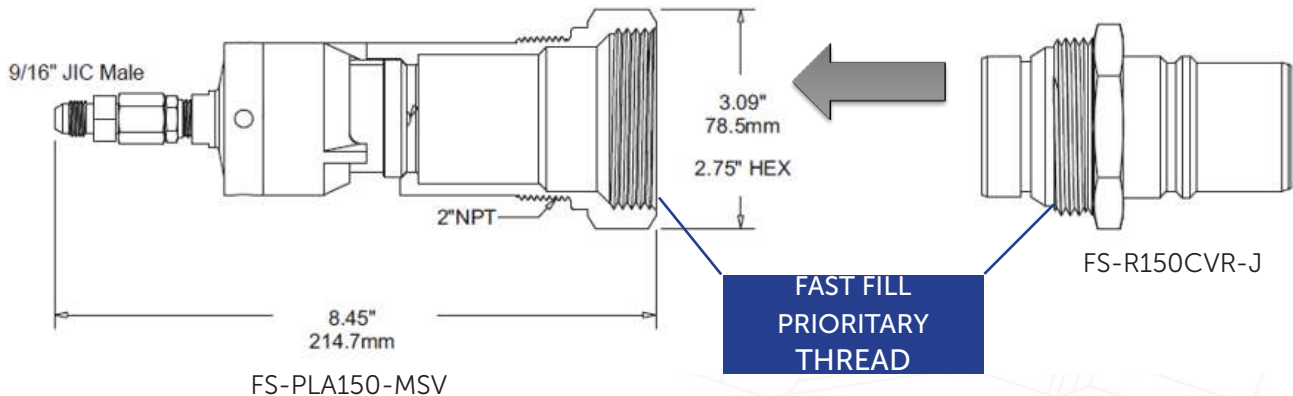
FS-PLA150-MSV



2" NPT Direct or Remote Mount.

Because of its design, one may mount the FS-R150CVR-J receiver directly to the unit, or remote mount the receiver using an FS-AD150J, the desired length of the hose line, and an FS-R150S-J receiver.

To be discontinued, Replacement Item PLA1000-MSV



FS-PL-P**, COMPONENTS REQUIRED



QTY	PART NUMBER	DESCRIPTION
**	R14-05	Braided Hose Stainless Steel. ** Denotes the length of the hose.
2	JF1SS-0905TT	9/16" JIC Female Swivel Straight Hose Tails to suit R14-05

Please note that Crimping is required, please contact your nearest Pirtek Centre for assistance.



1000 LPM FLOW RATE SYSTEM



FS-PLA1000-MVLCE

When combined with the N1000PSLP nozzle, and the

PLA1000-M SV, flow rates of up to 1000 LPM are achievable.

FS-N1000PSPL



FS-PLA1000-MSV

Check Inlet Valve



FS-R1000CVR-J

Direct Mount Receiver. High flow receiver made of extremely durable nickel-plated steel anodized aluminium. This receiver will last in the harshest environments. Max. operating pressure: 5.17bar/75psi. Includes Cap.

Remote 2" NPT receiver also available FS-R1000S-J

*Accessories:

FS-C1000A Cap - Aluminium

Piston Sureloc N1000PSL Nozzle

*Accessories:

FS-P1000PSL Plug



DIRECT TANK MOUNT APPLICATIONS

FS-PLA150-MRRM-2



Shut-off valve mounting "CAN"
for EXTERNAL signal line in-
cludes FS-R150CVR-J receiver

FS-PLA150-MRRM-2CM



Shut-Off Valve Mounting "CAN"
For
TWIN TANK EXTERNAL Signal
Line Includes FS-R150CVR-J
Receiver



PRESSURELESS FLANGE AND SHUTOFF VALVE ASSEMBLIES PRESSURELESS SYSTEMS



FS-PLA150-MSV61,
For Internal signal with 6
5-3/4"bolt pattern flange
and with Code 61 Fuel
line connection



FS-PLA150-MSV61-12,
For Internal signal line with 12
bolt flange and with Code
61 fuel line connection



FS-PLA150-MSV61E,
For External signal with 6
5-3/4"bolt pattern flange
and with Code 61 fuel
line connection



FS-PLA150-MSV61-12E,
For External signal line with
12 bolt flange and with Code
61 fuel line connection



FS-PLA150-MSVFE,
For external signal with 6
5-3/4"bolt pattern flange
(Includes Receiver)
Also available, for Internal
signal FS-PLA150-MSVF
(Includes Receiver)



FS-PLA150-MSVFE-12,
For external signal with 12
bolt flange (Includes
Receiver)



FS-PLA150-MSVEBH,
For External Signal With 6
5-5/16"bolt pattern Flange
(Includes Receiver/Shut
Off Valve/ Single Line
Connection)



DIESEL FILTER VENTS FOR PRESURELESS SYSTEM



FS-FFV150-PL,
The direct mount 3-micron filter with 2 check valves for airflow in and out.

FS-FFV150,
The remote mount 3-micron filter with 2 check valves for airflow in and out has a low profile for variable placement and universal mounting bracket for easy installation for side or bottom mounting.



FS-FFV150-LP,
Direct or remote mount available Low profile horizontal configuration, use in low headroom locations

FS-FFV150-VB1,
Filter vent with Vacuum Break is used in conjunction with a desiccant filter (filter not included).





DIESEL FILTER VENTS FOR PRESSURELESS SYSTEM

FS-FFV150-HVVB,
High Volume Filter Vent, ideal for large storage tanks, enlarged Filter Check Valve.



FS-FFV150-BCKV,
The breather check valve (3/4" NPT Male Thread) is used in conjunction with the vent with check valve FS-V150H-CKH (2" NPT Male Base Thread).

FILTER VENT ACCESSORIES

PART NUMBER	DESCRIPTION
FS-PLA-M1314	32MM Barb x 1" NPT Male Nipple
FS-FFV150-HB	1" NPT Male x Hose end for FS-FFV150
FS-FFV150-ACN	1" NPT Close Nipple for FS-FFV150-PL
FS-FFV150-BCKV	Breather Adaptor with Check Valve
#FS-PLA-PAGLD-9	1" NPT Male x FS-FFV150/LP Breather Adaptor



FS-PLA80-HVSC SMALL TANK DIESEL AND HIGH VISCOSITY OIL APPLICATIONS



The PLA80-HVSC is an all-in-one system that enables auto-shutoff fluid transfer for high viscosity oils and fluids. It fits standard 2" NPT inlets and allows individual tank fill and shut-off for single or multi-tank configurations. The tanks automatically shut off when the fuel level reaches 90-95% capacity to prevent under/over filling.

This product is suitable for agriculture, small construction, oil extraction, and mass transit equipment due to its compact design and easy installation."

High Flow Nozzle include FS-N150PSL800, FS-N1000PSL
Standard Nozzle include FS-N150PB, FS-N150PSL, FS-N150C

FS-PLA80-HVSC- HIGH VISCOSITY APPLICATION

MAX HIGH FLOW RATE DIESEL	302 LPM (80 GPM)
MIN HIGH FLOW RATE DIESEL	151 LPM (4 GPM)
MAX HIGH FLOW RATE OIL	100 LPM 26.5GPM
MIN HIGH FLOW RATE OIL	23.6 LPM 5GPM
MAX OPERATING TEMPERATURE	150°F/65.6°C
MIN OPERATING TEMPERATURE	-30°F/-34.4°C

* Flow rate based of 220cST gear oil. Compatible with gear oil up to 680 cST

FS-PLA80-HVSC has replaced the discontinued unit FS-PLA80-SVLC



Fuel Inlet: 1-1/4" FNPT
Vent Port: 1" FNPT





BULK DIESEL NOZZLES AND ADAPTERS



FS-N150B

Bulk Diesel Nozzle mates with the standard diesel receivers. Commonly used as the Quick Disconnect Coupling

FS-N150SB

All steel version of the Bulk Diesel Nozzle



FS-PLA150-MRF,

6- Bolt Pattern Receiver Flange. Fits CAT® PT#221-5304

FS-PLA150-MVF,

6- Bolt Pattern Receiver Flange. Fits CAT® PT#221-5303



FS-PLA150-MPTF

Provide 2" NPT to a plastic tank to connect a Shut Off Valve or a Level Control

FS-PLA150-MPTSF,

2" NPT splash fill adaptor for plastic tanks. Fits most CAT® splash fill Caps



FS-FV-P-9

2" NPT Flange Mount for use with Diesel Receivers and Vents

FS- FV-P-8

Weld-on Socket for use with diesel receivers and diesel Vents



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.

Standard Crankcase, Coolant, Hydraulic and Transmission nozzles and receivers bodies are made from nickel-plated steel, while the collar and the poppet are made of anodised aluminium. Units are also available in all steel on request.



CRANKCASE NOZZLES & RECEIVERS

ALL REMOTE NOZZLES WILL ONLY COUPLE WITH REMOTE RECEIVER



Standard Nozzle

FS-N100
FS-P100 (PLUG)

SUITS FS-R100 and FS-R100R
and FS-R100J



Standard Receiver

FS-R100
FS-C100 (Cap)



**Remote Series
Receiver (R Type)**

FS-R100R
FS-C100R (Cap)



**Bulkhead type
Receiver**

FS-R100J
FS-C100 (Cap)

**Max Operating
Pressure**

34.5 BAR

500 PSI

**Burst
Pressure**

103.4 BAR

1500 PSI

Flow Area

.305 SQ IN

197.7 mm²

.364 SQ IN (R)

234.8 mm² (R)

Nozzle Thread

3/4" MNPT

3/4" FNPT (R)

Receiver Thread

3/4" MNPT

3/4" FNPT (R)

OD 1-5/8" 12 TPI

**Latching
Mechanism**

Pin Latching

Ball Latching (R)

10 Different special colours available for Crankcase Nozzles & Receivers, which are all interchangeable with each other



COLOUR CODE	Nozzle Matrix Series	Nozzles Plugs	Receivers Matrix Series	Receiver Caps
RED	FS-N100	FS-P100	FS-R100	FS-C100
BLUE	FS-N100-BLU	FS-P100-BLU	FS-R100-BLU	FS-C100-BLU
GOLD	FS-N100-GLD	FS-P100-GLD	FS-R100-GLD	FS-C100-GLD
GREEN	FS-N100-GRN	FS-P100-GRN	FS-R100-GRN	FS-C100-GRN
GREY	FS-N100-GRY	FS-P100-GRY	FS-R100-GRY	FS-C100-GRY
ORANGE	FS-N100-ORG	FS-P100-ORG	FS-R100-ORG	FS-C100-ORG
PURPLE	FS-N100-PUR	FS-P100-PUR	FS-R100-PUR	FS-C100-PUR
YELLOW	FS-N100-YEL	FS-P100-YEL	FS-R100-YEL	FS-C100-YEL

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COOLANT NOZZLES & RECEIVERS

ALL REMOTE NOZZLES WILL ONLY COUPLE WITH REMOTE RECEIVER



Standard Nozzle
FS-N200
FS-P100 (PLUG)



Standard Receiver
FS-R200
FS-C200 (Cap)



Remote Series Receiver (R Type)
FS-R200R
FS-C200R (Cap)



Bulkhead type Receiver
FS-R200J
FS-C200 (Cap)



Remote Series Nozzle (R Type)
FS-N200R
FS-P200R (Plug)

Max Operating Pressure

34.5 BAR
500 PSI

Burst Pressure

103.4 BAR
1500 PSI

Flow Area

.112 SQ IN
72.2 mm²
.136 SQ IN (R)
87.7 mm² (R)

Nozzle Thread

1/2" MNPT
1/2" FNPT (R)

Receiver Thread

1/2" MNPT
OD 1-3/16" 12 TPI
ID 7/8" 14 TPI (R)

Latching Mechanism

Pin Latching
Ball Latching (R)



HYDRAULIC NOZZLES & RECEIVERS

ALL REMOTE NOZZLES WILL ONLY COUPLE WITH REMOTE RECEIVER



Standard Nozzle
FS-N300
*FS-N300BP
FS-P300 (PLUG)



Standard Receiver
FS-R300
FS-C300 (Cap)



Remote Series Receiver (R Type)
FS-R300R
FS-C300R (Cap)



Bulkhead type Receiver
FS-R300J
FS-C300 (Cap)



Remote Series Nozzle (R Type)
FS-N300R
FS-P300R (Plug)

Max Operating Pressure

34.5 BAR
500 PSI

Burst Pressure

103.4 BAR
1500 PSI

Flow Area

.221 SQ IN
142.6 mm²
*.305 SQ IN
*.196.8 mm²
.4201 SQ IN
271.6 mm²

Nozzle Thread

3/4" MNPT
3/4" FNPT (R)

Receiver Thread

3/4" MNPT
OD 1-7/8" 12 TPI
ID 1-5/8" 12TPI

Latching Mechanism

Pin Latching
*Ball Bearing
Ball Latching (R)



TRANSMISSION NOZZLES & RECEIVERS

ALL REMOTE NOZZLES WILL ONLY COUPLE WITH REMOTE RECEIVER



Standard Nozzle
FS-N400
FS-P400 (PLUG)



Standard Receiver
FS-R400
FS-C400 (Cap)



Remote Series Receiver (R Type)
FS-R400R
FS-C400R (Cap)



Bulkhead type Receiver
FS-R400J
FS-C400 (Cap)



Remote Series Nozzle (R Type)
FS-N400R
FS-P400R (Plug)

Max Operating Pressure

34.5 BAR
500 PSI

Burst Pressure

103.4 BAR
1500 PSI

Flow Area

.114 SQ IN
73.5 mm²
.229 SQ IN (R)
147.7 mm²

Nozzle Thread

1/2" MNPT
3/4" FNPT (R)

Receiver Thread

1/2" MNPT
OD 1-5/16" 12TPI
ID 1-1/16" 12TPI (R)

Latching Mechanism

Dog Teeth
Ball Latching (R)



MATRIX 34 SERIES MATRIX 34 STANDARD NOZZLES AND RECEIVERS (200/300 SERIES)



****All receivers can be ordered w/ #12 JIC threads**

NOZZLES 3/4" NPT

PART NO	DESCRIPTION	PLUG	PLUG COLOUR
FS-N210	Fastfill Matrix 3/4" Nozzle	FS-P310	GREEN
FS-N220	Fastfill Matrix 3/4" Nozzle	FS-P320	BLUE
FS-N230	Fastfill Matrix 3/4" Nozzle	FS-P330	PURPLE
FS-N240	Fastfill Matrix 3/4" Nozzle	FS-P340	GREY
FS-N250	Fastfill Matrix 3/4" Nozzle	FS-P350	ORANGE
FS-N260	Fastfill Matrix 3/4" Nozzle	FS-P360	YELLOW
FS-N270	Fastfill Matrix 3/4" Nozzle	FS-P370	RED
FS-N280	Fastfill Matrix 3/4" Nozzle	FS-P380	GOLD
FS-N205	Fastfill Matrix 3/4" Nozzle	FS-P305	HOT PINK
FS-N207	Fastfill Matrix 3/4" Nozzle	FS-P307	BROWN

NOZZLES 3/4" NPT

PART NO	DESCRIPTION	PLUG	PLUG COLOUR
FS-N310	Fastfill Matrix 3/4" Nozzle	FS-P310	GREEN
FS-N320	Fastfill Matrix 3/4" Nozzle	FS-P320	BLUE
FS-N330	Fastfill Matrix 3/4" Nozzle	FS-P330	PURPLE
FS-N340	Fastfill Matrix 3/4" Nozzle	FS-P340	GREY
FS-N350	Fastfill Matrix 3/4" Nozzle	FS-P350	ORANGE
FS-N360	Fastfill Matrix 3/4" Nozzle	FS-P360	YELLOW
FS-N370	Fastfill Matrix 3/4" Nozzle	FS-P370	RED
FS-N380	Fastfill Matrix 3/4" Nozzle	FS-P380	GOLD
FS-N305	Fastfill Matrix 3/4" Nozzle	FS-P305	HOT PINK
FS-N307	Fastfill Matrix 3/4" Nozzle	FS-P307	BROWN

RECEIVERS 3/4" NPT

PART NO	DESCRIPTION	PLUG	PLUG COLOUR
FS-R310V	Fastfill Matrix 3/4" Receiver	FS-C310	GREEN
FS-R320V	Fastfill Matrix 3/4" Receiver	FS-C320	BLUE
FS-R330V	Fastfill Matrix 3/4" Receiver	FS-C330	PURPLE
FS-R340V	Fastfill Matrix 3/4" Receiver	FS-C340	GREY
FS-R350V	Fastfill Matrix 3/4" Receiver	FS-C350	ORANGE
FS-R360V	Fastfill Matrix 3/4" Receiver	FS-C360	YELLOW
FS-R370V	Fastfill Matrix 3/4" Receiver	FS-C370	RED
FS-R380V	Fastfill Matrix 3/4" Receiver	FS-C380	GOLD
FS-R305V	Fastfill Matrix 3/4" Receiver	FS-C305	HOT PINK
FS-R307V	Fastfill Matrix 3/4" Receiver	FS-C307	BROWN

Operating Pressure

103 BAR
1500 PSI

Threads

Nozzle 3/4" FNPT
Receiver 3/4" MNPT

Construction

Anodized Aluminium and Nickel plated Steel with Color-coding and keyed to prevent cross-contamination.

PIRTEK HIGHLY RECOMMEND THE USE OF PLUGS AND CAPS ON ALL NOZZLES AND RECEIVERS TO PREVENT CONTAMINATION AND PREVENT YOUR EQUIPMENT.



MATRIX 34 STANDARD NOZZLES AND RECEIVERS (200/300 SERIES)

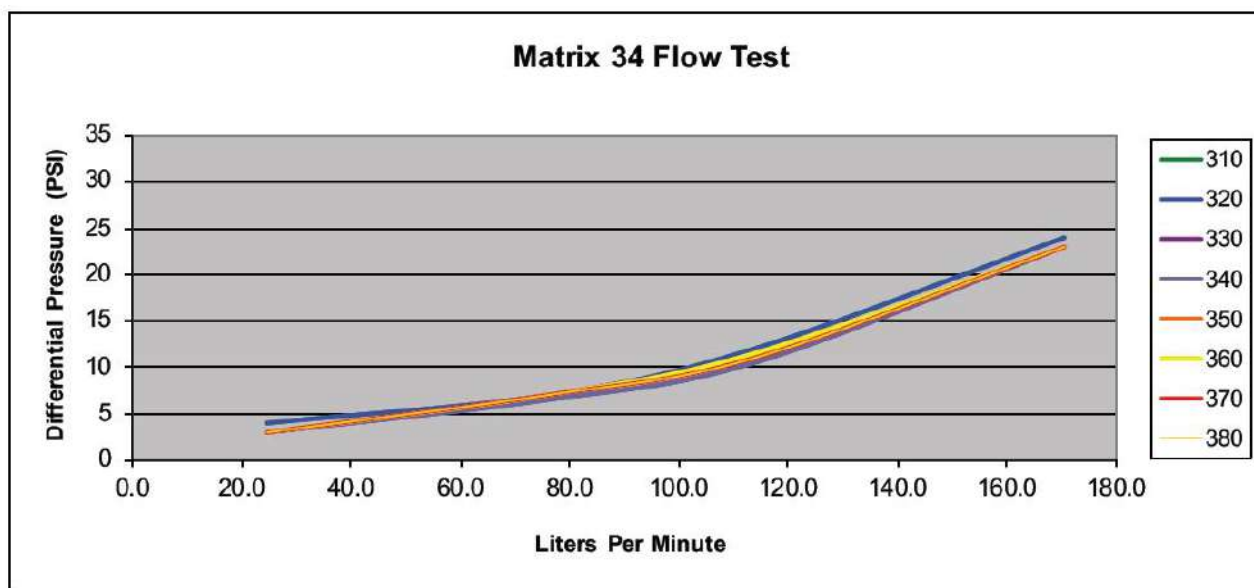
NOZZLES 1" NPT

PART NO	DESCRIPTION	PLUG	PLUG COLOUR
FS-N310-1	Fast Fill Matrix 1" Nozzle	FS-P310	GREEN
FS-N320-1	Fast Fill Matrix 1" Nozzle	FS-P320	BLUE
FS-N330-1	Fast Fill Matrix 1" Nozzle	FS-P330	PURPLE
FS-N340-1	Fast Fill Matrix 1" Nozzle	FS-P340	GREY
FS-N350-1	Fast Fill Matrix 1" Nozzle	FS-P350	ORANGE
FS-N360-1	Fast Fill Matrix 1" Nozzle	FS-P360	YELLOW
FS-N370-1	Fast Fill Matrix 1" Nozzle	FS-P370	RED
FS-N380-1	Fast Fill Matrix 1" Nozzle	FS-P380	GOLD

RECEIVERS 1" NPT

PART NO	DESCRIPTION	PLUG	PLUG COLOUR
FS-R310V-1	Fast Fill Matrix 1" Receiver	FS-C310	GREEN
FS-R320V-1	Fast Fill Matrix 1" Receiver	FS-C320	BLUE
FS-R330V-1	Fast Fill Matrix 1" Receiver	FS-C330	PURPLE
FS-R340V-1	Fast Fill Matrix 1" Receiver	FS-C340	GREY
FS-R350V-1	Fast Fill Matrix 1" Receiver	FS-C350	ORANGE
FS-R360V-1	Fast Fill Matrix 1" Receiver	FS-C360	YELLOW
FS-R370V-1	Fast Fill Matrix 1" Receiver	FS-C370	RED
FS-R380V-1	Fast Fill Matrix 1" Receiver	FS-C380	GOLD

PLEASE NOTE THAT BULKHEAD STYLE RECEIVERS ARE AVAILABLE – ADD A "J" TO THE CODE EG: FS-R380JV



Fluid used for test
Mineral or White Spirits

SG @ 68 F

0.79

Viscosity @ 68 F

0.74 cp

Temp of fluid during test

71.1 F

	310	320	330	340	350	360	370	380
Flow (LPM)	Differential Pressure (PSI)							
24.6	4	4	3	3	3	3	3	3
75.8	7	7	6.5	6.5	7	7	7	7
113.7	12	12	10.5	10.5	11.5	11.5	11	11
170.6	24	24	23	23	23	23	23	23

PIRTEK HIGHLY RECOMMEND THE USE OF PLUGS AND CAPS ON ALL NOZZLES AND RECEIVERS TO PREVENT CONTAMINATION AND PREVENT YOUR EQUIPMENT.



MATRIX 34 SERIES MATRIX 34 FLAT-FACE NOZZLES & RECEIVERS



FLAT-FACE MATRIX NOZZLES

PART NO	DESCRIPTION	PLUG	PLUG COLOUR
FS-FFN210	Flat-Face Matrix 3/4" Nozzle	-	GREEN
FS-FFN220	Flat-Face Matrix 3/4" Nozzle	-	BLUE
FS-FFN230	Flat-Face Matrix 3/4" Nozzle	-	PURPLE
FS-FFN240	Flat-Face Matrix 3/4" Nozzle	-	GREY
FS-FFN245	Flat-Face Matrix 3/4" Nozzle	-	TEAL
FS-FFN250	Flat-Face Matrix 3/4" Nozzle	-	ORANGE
FS-FFN255	Flat-Face Matrix 3/4" Nozzle	-	CLEAR
FS-FFN260	Flat-Face Matrix 3/4" Nozzle	-	YELLOW
FS-FFN265	Flat-Face Matrix 3/4" Nozzle	-	BROWN
FS-FFN270	Flat-Face Matrix 3/4" Nozzle	-	RED
FS-FFN275	Flat-Face Matrix 3/4" Nozzle	-	HOT PINK
FS-FFN280	Flat-Face Matrix 3/4" Nozzle	-	GOLD
FS-FFN285	Flat-Face Matrix 3/4" Nozzle	-	GUN METAL BLUE

Operating Pressure

103 BAR
1500 PSI

Threads

Nozzle 3/4" FNPT
Receiver 3/4" MNPT

Construction

Anodized Aluminium and Nickel plated Steel with Color-coding and keyed to prevent cross-contamination.

NPT MALE FLAT-FACE MATRIX RECEIVERS & CAPS

PART NO	DESCRIPTION	CAP	COLOUR CODE
FS-FFR210	Flat-Face Matrix 3/4" NPT Male	FS-C210	GREEN
FS-FFR220	Flat-Face Matrix 3/4" NPT Male	FS-C220	BLUE
FS-FFR230	Flat-Face Matrix 3/4" NPT Male	FS-C230	PURPLE
FS-FFR240	Flat-Face Matrix 3/4" NPT Male	FS-C240	GREY
FS-FFR245	Flat-Face Matrix 3/4" NPT Male	FS-C245	TEAL
FS-FFR250	Flat-Face Matrix 3/4" NPT Male	FS-C250	ORANGE
FS-FFR255	Flat-Face Matrix 3/4" NPT Male	FS-C255	CLEAR
FS-FFR260	Flat-Face Matrix 3/4" NPT Male	FS-C260	YELLOW
FS-FFR265	Flat-Face Matrix 3/4" NPT Male	FS-C265	BROWN
FS-FFR270	Flat-Face Matrix 3/4" NPT Male	FS-C270	RED
FS-FFR275	Flat-Face Matrix 3/4" NPT Male	FS-C275	HOT PINK
FS-FFR280	Flat-Face Matrix 3/4" NPT Male	FS-C280	GOLD
FS-FFR285	Flat-Face Matrix 3/4" NPT Male	FS-C285	GUN METAL BLUE

NPT FEMALE FLAT-FACE MATRIX RECEIVERS & CAPS

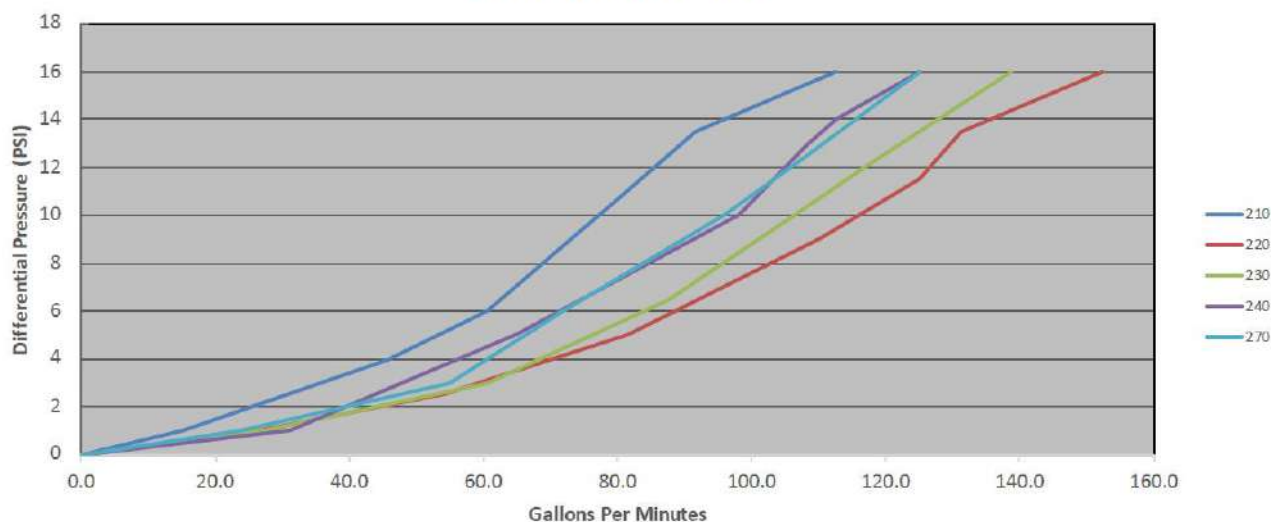
PART NO	DESCRIPTION	CAP	COLOUR CODE
FS-FFR210-34F	Flat-Face Matrix 3/4" NPT Female	FS-C210	GREEN
FS-FFR220-34F	Flat-Face Matrix 3/4" NPT Female	FS-C220	BLUE
FS-FFR230-34F	Flat-Face Matrix 3/4" NPT Female	FS-C230	PURPLE
FS-FFR240-34F	Flat-Face Matrix 3/4" NPT Female	FS-C240	GREY
FS-FFR245-34F	Flat-Face Matrix 3/4" NPT Female	FS-C245	TEAL
FS-FFR250-34F	Flat-Face Matrix 3/4" NPT Female	FS-C250	ORANGE
FS-FFR255-34F	Flat-Face Matrix 3/4" NPT Female	FS-C255	CLEAR
FS-FFR260-34F	Flat-Face Matrix 3/4" NPT Female	FS-C260	YELLOW
FS-FFR265-34F	Flat-Face Matrix 3/4" NPT Female	FS-C265	BROWN
FS-FFR270-34F	Flat-Face Matrix 3/4" NPT Female	FS-C270	RED
FS-FFR275-34F	Flat-Face Matrix 3/4" NPT Female	FS-C275	HOT PINK
FS-FFR280-34F	Flat-Face Matrix 3/4" NPT Female	FS-C280	GOLD
FS-FFR285-34F	Flat-Face Matrix 3/4" NPT Female	FS-C285	GUN METAL BLUE

PIRTEK HIGHLY RECOMMENDS THE USE OF PLUGS AND CAPS ON ALL NOZZLES AND RECEIVERS TO PREVENT CONTAMINATION AND PREVENT YOUR EQUIPMENT.



MATRIX 34 SERIES MATRIX 34 FLAT-FACE NOZZLES & RECEIVERS

Matrix Flat Face Flow Test



Fluid used for test

Viscor Calibration Fluid

SG @ 68 F

0.79

Viscosity @ 68 F

0.74 cp

Temp of fluid during test

72 F

210		220		230		240		270	
LPM	Diff Press	LPM	Diff Press	LPM	Diff Press	LPM	Diff Press	LPM	Diff Press
112.6	16	152.4	16	138.7	16	125.1	16	125.1	16
91.7	13.5	131.1	13.5	116.7	12	112.6	14	108.4	12.5
81.3	11	125.1	11.5	106.5	10	108.4	13	95.9	10
60.6	6	110.3	9	87.5	6.5	98.2	10	72.0	6
45.9	4	81.5	5	60.6	3	64.8	5	55.0	3
15.2	1	54.2	2.5	27.3	1	31.1	1	23.9	1
		26.5	1						



MATRIX 34 SERIES MATRIX 34 MX HIGH FLOW SERIES NOZZLES AND RECEIVERS



MX HIGH FLOW MATRIX NOZZLE

MX HIGH FLOW MATRIX RECIEVER

PART NO	DESCRIPTION	CAP	COLOUR CODE	PART NO	DESCRIPTION	CAP	COLOUR CODE
FS-MXN1-1	Mx High Flow Matrix 1" NPT	FS-PMX1	RED	FS-MXR1-1	Mx High Flow Matrix 1" NPT Male	FS-CMX1	RED
FS-MXN2-1	Mx High Flow Matrix 1" NPT	FS-PMX2	YELLOW	FS-MXR2-1	Mx High Flow Matrix 1" NPT Male	FS-CMX2	YELLOW
FS-MXN3-1	Mx High Flow Matrix 1" NPT	FS-PMX3	TEAL	FS-MXR3-1	Mx High Flow Matrix 1" NPT Male	FS-CMX3	TEAL
FS-MXN4-1	Mx High Flow Matrix 1" NPT	FS-PMX4	PURPLE	FS-MXR4-1	Mx High Flow Matrix 1" NPT Male	FS-CMX4	PURPLE
FS-MXN5-1	Mx High Flow Matrix 1" NPT	FS-PMX5	BLUE	FS-MXR5-1	Mx High Flow Matrix 1" NPT Male	FS-CMX5	BLUE
FS-MXN6-1	Mx High Flow Matrix 1" NPT	FS-PMX6	COPPER	FS-MXR6-1	Mx High Flow Matrix 1" NPT Male	FS-CMX6	COPPER
FS-MXN7-1	Mx High Flow Matrix 1" NPT	FS-PMX7	GREY	FS-MXR7-1	Mx High Flow Matrix 1" NPT Male	FS-CMX7	GREY

Operating Pressure

103 BAR
1500 PSI

Construction

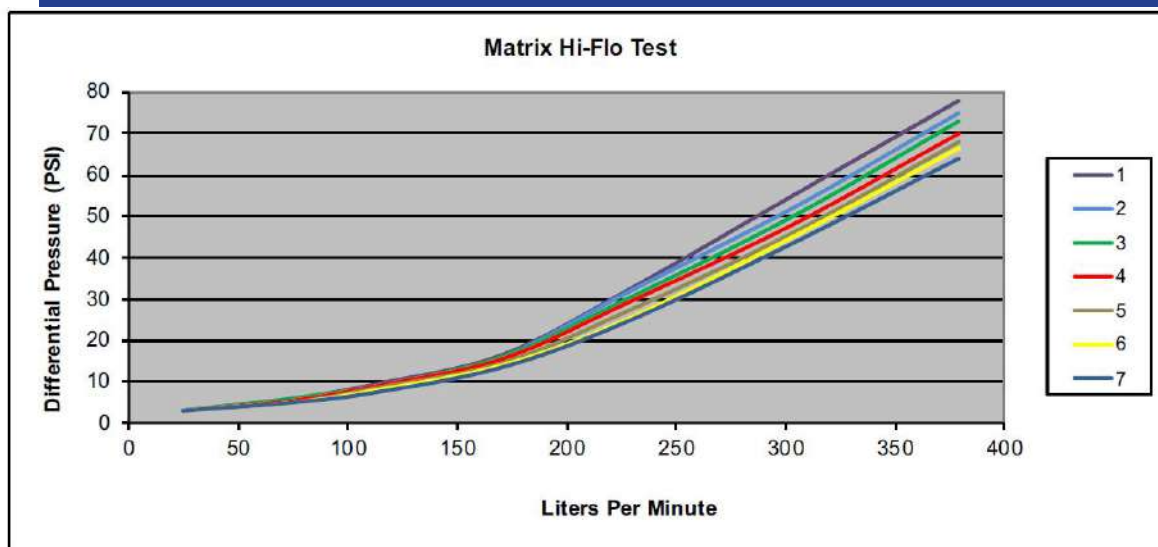
Anodized Aluminium and Nickel plated Steel with Color-coding and keyed to prevent cross-contamination.

Threads

Nozzle 3/4" FNPT
Receiver 3/4" MNPT



MATRIX 34 SERIES MATRIX 34 MX HIGH FLOW SERIES NOZZLES AND RECEIVERS



Fluid used for test

Mineral or White Spirits

SG @ 68 F

0.79

Viscosity @ 68 F

0.74 cp

Temp of fluid during test

72.5 F

	1	2	3	4	5	6	7
Flow (LPM)	Differential Pressure (PSI)						
24.635	3	3	3	3	3	3	3
75.8	6	6	6	5.5	5	5	5
113.7	9.5	9	9	9	8.5	8	7.5
170.55	16.5	16	16	15.5	14.5	14	13.5
227.4	32	31.5	30	29	27	25	24.5
303.2	55	52	50	48	46	45	43.5
379	78	75	73	70	68	66.5	64



MATRIX UNIVERSAL CRANKCASE NOZZLES AND RECEIVERS

These Nozzles and Receivers are used for fluid identification purposes in different applications, the new Matrix series for the Crankcase prevent cross-contamination and prevent your equipment. These are not interchangeable with each other



COLOUR CODE	Nozzle Matrix Series	Nozzles Plugs	Receivers Matrix Series	Receiver Caps
RED	FS-N100	FS-P100	FS-R100	FS-C100
GOLD	FS-N102	FS-P100-GLD	FS-R102	FS-C100-GLD
TEAL	FS-N103	FS-P100-TEA	FS-R103	FS-C100-TEA
PURPLE	FS-N104	FS-P100-PUR	FS-R104	FS-C100-PUR
BLUE	FS-N105	FS-P100-BLU	FS-R105	FS-C100-BLU
BROWN	FS-N106	FS-P100-BRN	FS-R106	FS-C100-BRN

PIRTEK HIGHLY RECOMMEND THE USE OF PLUGS AND CAPS ON ALL NOZZLES AND RECEIVERS TO PREVENT CONTAMINATION AND PREVENT YOUR EQUIPMENT.



MATRIX EVACUATION TOOLS

Matrix Series Standard evacuation tools FS-ET290 & FS-ET290J



Designed to interlock with all
FS-R310V – FS-R380V Matrix
Standard Series Receivers for
“evacuation purposes”

The FS-ET290 3/4" NPT female thread.
The FS-ET290 125 1 1/4" NPT female thread.
The FS-ET290J 1-5/16"-16 JIC male hose
connection

Matrix Series Flat-face evacuation tool FS-FFET290



Designed to inter-lock with
all flat face matrix receivers
for evacuation purposes.

FS-FFET290 3/4" NPT female
thread

FS-FFET290-J
1 5/16"-16 JIC Male hose
connection

Matrix Series MX High Flow evacuation tool FS-MXET-1



Designed to accommodate
all the MX Matrix receivers
and has an integrated internal
check-valve to allow fluid
evacuation only.

FS-MXET-1 1" NPT female
thread



KOMATSU DESIGNED COUPLERS AND EVACUATION



PART NUMBER	DESCRIPTION
FS-R380V-12K	½" NPT Male Thread Receiver – Grey Poppet
FS-R310V-1K	1" NPT Male Thread Receiver – Green Poppet
FS-R350V-1250K	1-1/4" NPT Male Thread Receiver – Gold Poppet
FS-EPK390 / FS-EPK375	M27 / M24 Male Thread - Black Poppet, it will suit all Komatsu equipment transmission port except WA800 and WA900.
FS-SB100QC	Service box with four fluid receivers

* Available on request.



ADDITIONAL ACCESSORIES WORKING TOOLS & OIL SAMPLING



PART NUMBER	DESCRIPTION
FS-SB100	Service box with fluid NPT couplers without receivers
FS-SB100-BP	Service box backplate w/ couplers powder coated
FS-SB100F	Service box with fuel & fluid NPT couplers without receivers
FS-SB100FQC	Service box with fuel and four fluid receivers
FS-SB100QC	Service box with four fluid receivers

Oil Sampling Valves with Bottle FS-OS100 (½" NPT) & FS-OS100-34 (¾" NPT)

The oil sampling valve can be fitted onto your existing crankcase line to allow samples to be drawn.

The valve is made from anodised aluminium and includes a sample container.

FS-OS100B
Replacement Bottle





UNDERGROUND COAL MINING FAST FILL PRESSURIZED REFUELLING



FS-N150PBU

Flow Rate Max
Flow Rate Min

Inlet Port
Material
Latch Mechanism

Nozzle for Underground Mining

567 LPM/150 GPM

Pressurised Diesel Tanks = 125 LPM/33 GPM

Pressureless Diesel Tanks = 95 LPM/25 GPM

1 1/2" NPT Female

Bronze

Metta Latching

The nozzle is Bronze construction with the body having a non-slip powder-coated finish, most forgiving latching mechanism in dirty conditions

FS-V150S FS-V150SL7

Standard Steel Vent

Standard Steel Vent with 7" long Stem



FS-R150SC-A

Steel Receiver with plastic cap black poppet, rated for 9 psi. Used on standard diesel tanks on trucks etc.

FS-R150SC-B

Steel Receiver with plastic cap, blue poppet, rated for 7 psi. Used on high and remote tanks.

FS-R150SC-D

Steel Receiver with plastic cap, red poppet, rated for 11 psi. Used on negative head applications. Top-fill pontoon.

FS-R150S-JK

Fuel Valve Receiver W/Cap (12 Psig Shut-Off Pressure, Green Poppet) - Steel

FS-R150SJ

Steel Fuel Receiver With JIC Connection



STANDARD COUPLERS

CRANKCASE



FS-N100US
FS-P100S



FS-R100S
FS-C100S

COOLANT



FS-N200S
FS-P200S



FS-R300S
FS-P300S

HYDRAULIC



FS-N300S
FS-C300S



FS-R300S
FS-P300S

TRANSMISSION

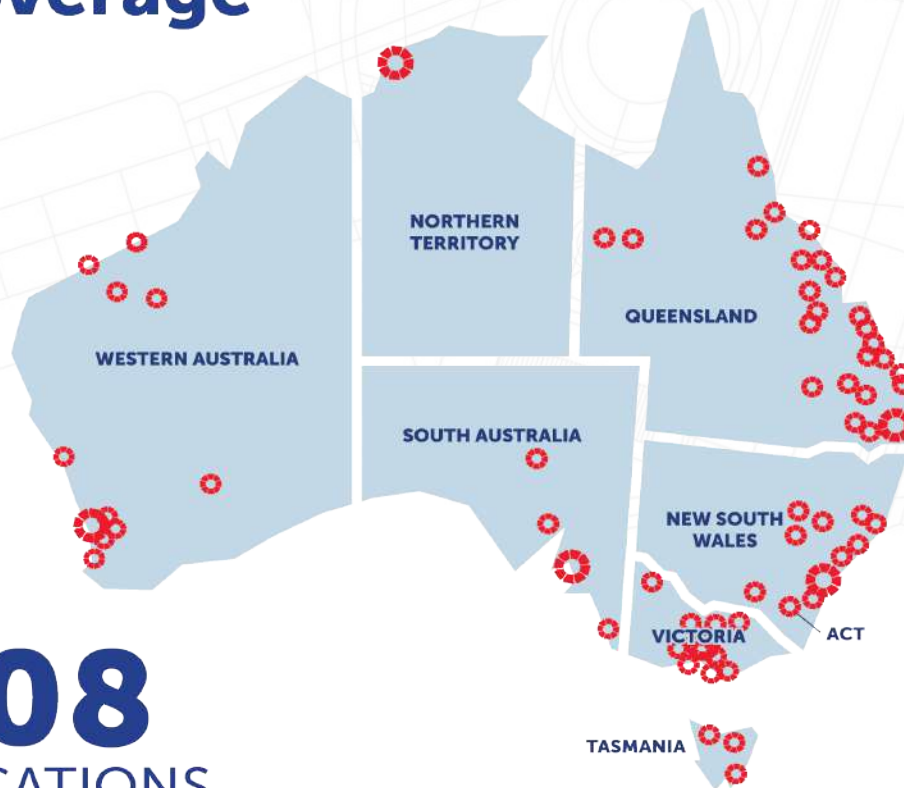


FS-N400S
FS-P400S



FS-R400S
FS-C400S

Pirtek's National Coverage



108 LOCATIONS NATIONALLY

AUSTRALIAN SERVICE & SUPPLY CENTRES

NEW SOUTH WALES

Bathurst •
Blacktown
Botany
Campbelltown
Central Coast
Coffs Harbour
Dubbo •
Goulburn •
Gunnedah •
Illawarra (Wollongong) •
Maitland •
Milperra
Mudgee •
Muswellbrook •
Newcastle •
North Sydney
Orange •
Peakhurst
Penrith
Port Macquarie
Prestons
Shoalhaven

VICTORIA

Albury/Wodonga
Bacchus Marsh
Ballarat
Bass Coast
Bayswater
Bendigo
Cardinia
Dandenong
Geelong North
Latrobe Valley
Melbourne Central
Melbourne West
Mildura
Moorabbin
Shepparton
Springvale
Thomastown
Tullamarine
Whittlesea

SOUTH AUSTRALIA

Adelaide
Elizabeth
Mt Gambier
Roxby Downs •
South Adelaide
Whyalla •

WESTERN AUSTRALIA

Albany
Broome ♦
Bunbury •
Canningvale
Fremantle
Geraldton •
Kalgoorlie •
Karratha

QUEENSLAND

Bayside
Beaudesert
Biloela •
Blackwater •
Cairns
Charters Towers •
Chinchilla •
Cloncurry •
Collinsville •
Dysart •
Emerald •
Fraser Coast
Galilee Basin •
Gladstone •
Glenden •
Gold Coast
Ipswich
Mackay •
Moranbah •
Mt Isa •
Noosa Shire
North Brisbane

TASMANIA

Hobart
Launceston
North West

ACT

Canberra

Malaga
Midland
Newman ♦
Port Hedland ♦
Tom Price ♦
Welshpool

Port of Brisbane
Rockhampton •
Rocklea
Springwood
Strathpine
Sunshine Coast
Toowoomba
Townsville
Wacol
Whitsunday Shire •
Yatala

NT

Darwin •

• Specialised/Mining Centre ♦ Pilbara Region

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