



FAST FILL SYSTEMS PRESSURELESS SYSTEMS

Only Trust your “FLUID EQUIPMENT SPECIALISTS”

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PRESSURELESS VENTS



FFV150 BKT

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.



FFV150-PL

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



FFV150-LP (LOW PROFILE)

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



FFV150-VB1

Filter vent with Vacuum Break is used in conjunction with a desiccant filter (filter not included).



FFV150-HVVB

High Volume Filter Vent, ideal for large storage tanks, enlarged Filter Check Valve.



FFV150-BCKV

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



FFV-MF

3 Micron Replacement Filter
(Filters must be replaced every 12 Months)



PRESSURELESS LEVEL SENSOR'S



PLA150-M-VLCE

PRESSURELESS VENT LEVEL CONTROL-
LER W/ OPTIONAL EXTERNAL SIGNAL
LINE



PLA150-M-VLCE-F

PRESSURELESS LEVEL CONTROLLER ON-
LY W/ OPTIONAL EXTERNAL SIGNAL LINE
W/ 6-BOLT CAT VENT FLANGE (NO VENT
PORT)



PLA150-M-VLCE DUAL*

PRESSURELESS VENT LEVEL CONTROL-
LER W/ OPTIONAL EXTERNAL SIGNAL
LINE

optional duel line application also
*PLA1000-M-VLCE DUAL**



PLA150-M-VLC

PRESSURELESS VENT LEVEL CON-
TROLLER WITH 5 SPACES



PLA150-M-VLCE F2 *

PRESSURELESS VENT LEVEL CONTROL-
LER W/ 6-BOLT CAT VENT FLANGE CON-
NECTION AND OPTIONAL EXTERNAL
SIGNAL LINE

*optional application also
PLA1000-M VLCE F2



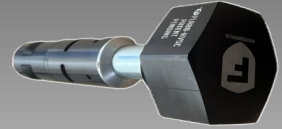
PLA150-M-VLC DUAL

DUAL PRESSURELESS VENT LEVEL CON-
TROLLER WITH 5 SPACES



PRESSURELESS—SMALL TANK APPLICATIONS

PLA80-HVSC AUTOMATIC SHUT-OFF FLUID TRANSFER SYSTEM



The **PLA80-HVSC** is an automatic shut-off fluid transfer system designed for the safe and efficient filling of **high-viscosity oils and diesel fuels**. This compact, all-in-one unit installs directly into a standard **2" NPT tank inlet**, making it ideal for new installations and retrofit applications.

During filling, the system operates completely pressure-free. When the fluid level reaches approximately **90–95% of tank capacity**, the internal shut-off mechanism automatically closes, preventing both overfilling and spillage. An integrated filtered vent and dry-break fill connection help minimise contamination while maintaining clean, efficient fluid transfer.

Its compact design, adjustable shut-off level, and simple installation make the PLA80-HVSC suitable for a wide range of industrial, mining, construction, transport, and heavy equipment applications.

FEATURES & BENEFITS

- Automatic shut-off at approximately **90–95% tank capacity**
- Designed for **high-viscosity oils and diesel fuels**
- Fits standard **2" NPT tank inlets**
- Completely **pressureless operation**
- Adjustable shut-off level to suit application requirements
- Low-profile filtered vent or optional remote-mounted vent configuration
- Dry-break filling system reduces contamination and improves safety
- Compact, robust design for easy installation
- Long service life specifications

TECHNICAL SUMMARY

- **Connection:** 2" NPT
- **Operation:** Automatic shut-off
- **Shut-Off Level:** Adjustable
- **Weight:** 3.92 lb (1.78 kg)
- **Compatible Fluids:** Diesel fuel and gear oils up to **680 cSt viscosity**

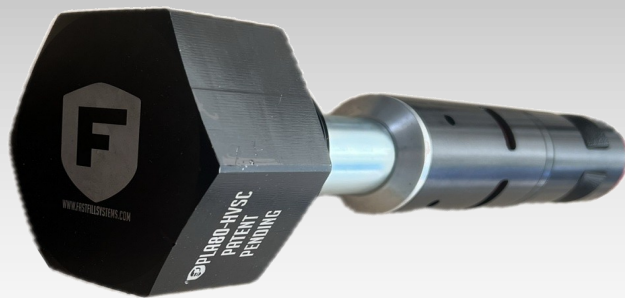
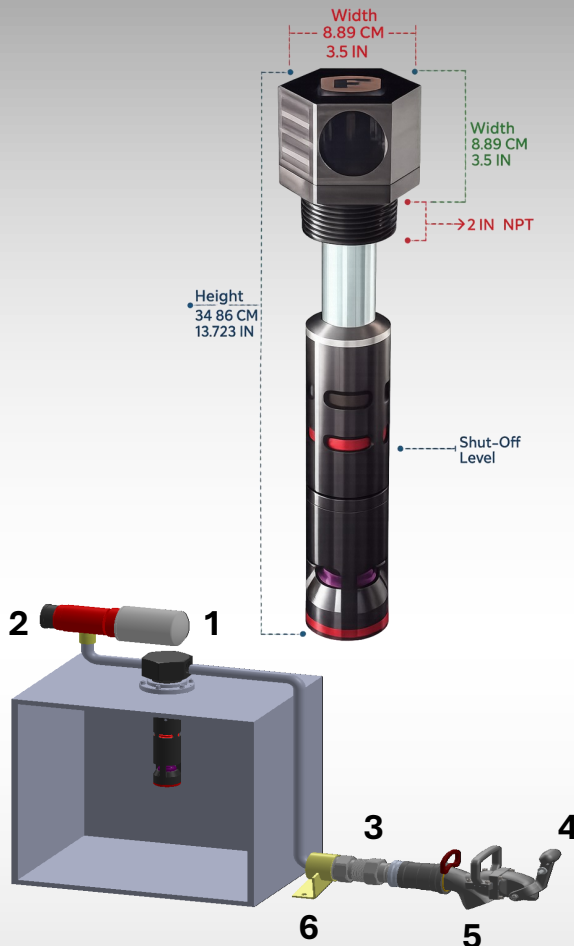
TYPICAL APPLICATIONS

- Mining equipment
- Construction machinery
- Agricultural equipment
- Bulk fuel storage tanks
- Hydraulic and lubrication reservoirs
- Industrial fluid transfer systems



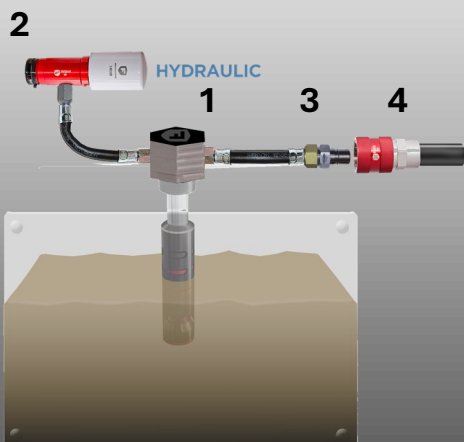
PRESSURELESS—SMALL TANK APPLICATIONS

PLA80-HVSC SMALL PRESSURELESS **DIESEL TANK 300 LPM**



1	PLA80-HVSC	Small Tank Pressureless	
2	FFV150-LP	Low Profile Vent	
3	R150SC-J	Diesel Receiver with Cap	
4	N150AT-AP	Diesel Fuel Nozzle	
5	S150 SWIVEL	1.5" Swivel for Diesel Nozzle	
6	SMB2	Bracket for Receiver	

PLA80-HVSC SMALL PRESSURELESS **HYDRAULIC TANK 98LPM***



1	PLA80-HVSC	Small Tank Pressureless	
2	FFV150-LP	Low Profile Vent	
3	R150SC-J	Diesel Receiver with Cap	
4	N150SB	Diesel Fuel Nozzle	

* Higher-viscosity oils will decrease the flow rate through the system.

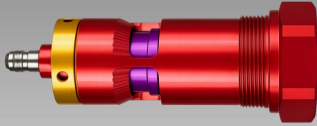


PRESSURELESS LEVEL SENSOR'S ADDITIONAL OPTIONS

PART NUMBER	DESCRIPTION
PLA150-M VLC	PRESSURELESS VENT LEVEL CONTROLLER
PLA150-M VLC DUAL	PRESSURELESS VENT LEVEL CONTROLLER WITH DUAL SIGNAL LINE W/11 SPACERS
PLA150-M VLC DUAL-5	PRESSURELESS VENT LEVEL CONTROLLER WITH DUAL SIGNAL LINE W/5 SPACERS
PLA150-M VLC FOR FFV150-PL	PRESSURELESS VENT LEVEL CONTROLLER FOR FFV150 PL
PLA150-M VLC QUAD	PRESSURELESS VENT LEVEL CONTROLLER QUAD
PLA150-M VLC2	PRESSURELESS VENT LEVEL CONTROLLER - INTERNAL SIGNAL LINE ONLY
PLA150-M VLCE	PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE
PLA150-M VLCE-12	PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE W/ 12" STEM
PLA150-M VLCE-4FT	PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE
PLA150-M VLCE-DUAL	DUAL PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE
PLA150-M VLCE-DUAL12	DUAL PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE AND 12" DROP TUBE
PLA150-M VLCE-FFV	PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE
PLA150-M VLCE-LP	PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE
PLA150-M VLCE B	BUS PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE
PLA150-M VLCE F	PRESSURELESS LEVEL CONTROLLER ONLY W/ OPTIONAL EXTERNAL SIGNAL LINE W/ 6-BOLT CAT VENT FLANGE (NO VENT PORT)
PLA150-M VLCE F2	PRESSURELESS VENT LEVEL CONTROLLER W/ 6-BOLT CAT VENT FLANGE CONNECTION AND OPTIONAL EXTERNAL SIGNAL LINE
PLA150-M VLCE F2 DUAL	DUAL PRESSURELESS VENT LEVEL CONTROLLER W/ 6-BOLT CAT VENT FLANGE CONNECTION AND OPTIONAL EXTERNAL SIGNAL LINE
PLA150-M VLCE FB	PRESSURELESS LEVEL CONTROLLER ONLY FOR PLA150-M VLCE F ASSEMBLY (FLANGE NOT INCLUDED)
PLA150-M VLCE FLC	PRESSURELESS LEVEL CONTROLLER ONLY FOR PLA150-M VLCE ASSEMBLY (VENT TOP NOT INCLUDED)
PLA150-M VLCE FOR FFV150	PRESSURELESS VENT LEVEL CONTROLLER FOR FFV150 PL W/ OPTIONAL EXTERNAL
PLA150-M VLCE HE20	PRESSURELESS VENT LEVEL CONTROLLER CONFIGURED FOR EXTERNAL SIGNAL LINE AND PLUGGED VENT
PLA150-M VLCE HE20-I	PRESSURELESS VENT LEVEL CONTROLLER CONFIGURED FOR INTERNAL SIGNAL LINE AND PLUGGED VENT
PLA150-M VLCE TOP	PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE TOP ONLY
PLA150-M VLCE TOP NE	PRESSURELESS VENT LEVEL CONTROLLER W/ OPTIONAL EXTERNAL SIGNAL LINE TOP ONLY



PRESSURELESS INLET VALVES



PLA150-M SV(800LTS) / PLA1000-M SV (1000LTS)
PRESSURELESS SHUT-OFF VALVE EXCLUDES R150CVR-J RECEIVER



PLA150-M-RRM-2 (800LTS)/PLA1000-M-RRM-2 (1000LTS)
SHUT-OFF VALVE MOUNTING "CAN" FOR EXTERNAL SIGNAL LINE
INCLUDES R150CVR-J RECEIVER



PLA150-M-RRM-3 (800LTS)/PLA1000-M-RRM-3 (1000LTS)
SHUT-OFF VALVE MOUNTING "CAN" FOR INTERNAL SIGNAL
LINE INCLUDES R150CVR-J RECEIVER



PLA150-M-SV61-E
EXTERNAL SIGNAL WITH 6 BOLT FLANGE (INCLUDES RECEIVER)



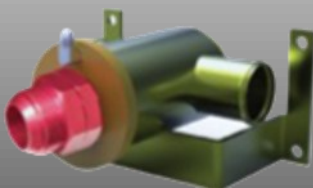
PLA150-M-SV61
INTERNAL SIGNAL WITH 6 BOLT FLANGE (INCLUDES RECEIVER)



PLA150-M SV61-12E
FOR EXTERNAL SIGNAL LINE WITH 12 BOLT FLANGE
(INCLUDES RECEIVER)



PLA150-M SV61-12E
FOR EXTERNAL SIGNAL LINE WITH 12 BOLT FLANGE
(INCLUDES RECEIVER)



SHUT-OFF VALVE MOUNTING "CAN" FOR TWIN TANK EXTERNAL SIGNAL
LINE INCLUDES R150CVR-J RECEIVER



PRESSURELESS RECEIVER



R150SC-J

FUEL VALVE RECEIVER W/CAP (12 PSIG SHUT-OFF PRESSURE, GREEN POPPET) - STEEL



R150CVRC-J

MICRO PRESSURELESS 2PC RECEIVER WITH CAP FOR PLA150M SV

PRESSURELESS RECEIVER

The replacement receiver for the Pressureless Diesel Tank System is made from steel and is nickel-plated. This is a specialised receiver that is designed to work with the PLA150-M-SV Inlet Valve and can be fitted to the AD150JR Remote Adaptor when a Remote Diesel Receiver Installation is required. The 2 piece receiver has a 5 psi Green Poppet pressure rating and is not interchangeable with standard 2" NPT base diesel receivers.

SIGNAL LINES

PL-P-6	SIGNAL LINE (10FT) WITH #6 JIC HOSE ENDS
PL-P-6-B	SIGNAL LINE (3FT) WITH # 6 JIC HOSE ENDS R115-6SS6FJX-3'
PL-P-6-C	SIGNAL LINE (6FT) WITH #6 JIC HOSE ENDS R115-6SS6FJX-6'





PRESSURELESS VENTS

PART NUMBER	DESCRIPTION
FFV-MF	3 MICRON REPLACEMENT FILTER
FFV-P-6 HITACHI	3 MICRON REPLACEMENT FILTER - HITACHI..ETCHED E12664490
FFV150	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY
FFV150-1	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY WITH 1" NPT FEMALE BREATHER ADAPTOR W/O FILTER
FFV150-2	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY WITH 1" NPT FEMALE BREATHER ADAPTOR W/O HOSE BARB AND FILTER
FFV150-34M	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY WITH 3/4" MALE NPT BREATHER ADAPTOR
FFV150-34M BUCYRUS	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY WITH 3/4" "MALE NPT BREATHER ADAPTOR
FFV150-BCKV	BREATHER ADAPTER WITH CHECK VALVE AND 3 MICRON FILTER
FFV150-BCKV HITACHI	BREATHER ADAPTER WITH CHECK VALVE AND 3 MICRON FILTER W/ HITACHI ETCH #E12667325
FFV150-BCKV IR1	FILTERED FUEL VENT - HIGH VOLUME 2" NPT TOP AND BOTTOM
FFV150-BCKV IR1-F	HIGH VOLUME BREATHER CHECK VALVE WITH 1" FNPT
FFV150-BCKV1F	BREATHER ADAPTER ONLY - 1" FNPT FILTER PORT
FFV150-BCKV34	BREATHER ADAPTOR ONLY-3/4"
FFV150-BCKV78	BREATHER ADAPTER ONLY - 7/8" FILTER PORT
FFV150-BRM	BREATHER REDIRECT MANIFOLD FOR ALL FFV150 FILTER VENTS
FFV150-CDV	DIRECT MOUNT COMPACT FILTER VENT ASSEMBLY
FFV150-HV	FILTERED FUEL VENT - HIGH VOLUME 2" NPT TOP AND BOTTOM
FFV150-HV 15UNM	FILTERED FUEL VENT - HIGH VOLUME 2" NPT BOTTOM 1.5"-16 UN MALE TOP
FFV150-HV IR1	FILTERED FUEL VENT - HIGH VOLUME WITH STANDARD FILTER
FFV150-HV IR1-2	FILTERED FUEL VENT - HIGH VOLUME 2" NPT BREATHER AND 1" NPT TANK MOUNT
FFV150-HV IR1-F	FILTERED FUEL VENT - HIGH VOLUME WITH 1" FNPT
FFV150-HV IR1-J	FILTERED FUEL VENT - HIGH VOLUME WITH 1" JIC
FFV150-HV IR1-M	FILTERED FUEL VENT - HIGH VOLUME WITH 1" MALE NPT



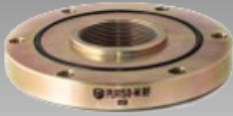


PRESSURELESS VENTS

PART NUMBER	DESCRIPTION
FFV150-HV2 VB	SECOND GENERATION HIGH VOLUME FILTER VENT
FFV150-HVB VB	FILTERED FUEL VENT - HIGH VOLUME BSPT W/ VACUUM BREAK ..2' FEMALE BSPT BREATH-ER, 2" MALE BSPT INLET
FFV150-K2	HIGH FLOW VENT WITH CHECK VALVE AND 3 MICRON FILTER
FFV150-K2R	HIGH FLOW VENT WITH CHECK VALVE AND 3 MICRON FILTER
FFV150-LCV	LARGE CHECK VALVE ASSEMBLY
FFV150-LG CV	LARGE CHECK VALVE (BLACK)
FFV150-LP	LOW PROFILE FILTER VENT FOR PRESSURELESS
FFV150-LP CR	LOW PROFILE FILTER VENT FOR PRESSURELESS WITH DOT406 REGULATION ROLLOVER PROTECTION SPRING
FFV150-LP HITACHI	LOW PROFILE FILTER VENT FOR PRESSURELESS
FFV150-LPR	LOW PROFILE FILTER VENT FOR PRESSURELESS WITH VENT REDUCTION CHECK VALVE
FFV150-M2	FILTERED FUEL VENT - 2" NPT MALE THREADS FOR DIRECT TANK MOUNT
FFV150-PL	FILTERED FUEL VENT FOR PRESSURELESS SYSTEM
FFV150-PL CR	FILTERED FUEL VENT FOR PRESSURELESS SYSTEM WITH DOT406 REGULATION ROLLOVER PROTECTION SPRING
FFV150-PLR	FILTERED FUEL VENT FOR PRESSURELESS SYSTEM W/ VENT HOSE REDUCTION
FFV150-R	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY W/ VENT HOSE REDUCTION
FFV150-RVCKV	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY W/ VENT HOSE REDUCTION
FFV150-SS	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY
FFV150-VB1	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY WITH 1" NPT FEMALE BREATHER ADAPTOR & VACUUM BREAK
FFV150-VB1-K	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY WITH 1" NPT FEMALE BREATHER ADAPTOR & VACUUM BREAK W/ 3/4" FEMALE NPT
FFV150-VB1-KH	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY WITH 1" NPT FEMALE BREATHER ADAPTOR & VACUUM BREAK W/ 3/4" FEMALE NPT ..FILTER VENT FOR HAUL T
FFV150-WA	FILTER VENT ASSEMBLY WITHOUT ADAPTOR
FFV150 HITACHI	REMOTE UNIVERSAL MOUNT FILTER VENT ASSEMBLY ETCHED WITH HITACHI PART NUM-BER E12664489
FFV150ACN	GOLD 1" NPT ALUMINUM CLOSE NIPPLE



PRESSURELESS ADAPTERS AND FLANGES



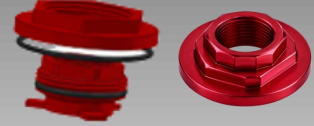
PLA150-M VF-CAT
6 BOLT VENT
FLANGE ADAPTOR
TO 2" NPT



PLA150-M RF -CAT 6 BOLT RE-
CEIVER FLANGE ADAPTOR TO 2"
NPT



FFF4C / FFF5C—WELD-
ON / BOLT ON FLUSH
MOUNT BELL HOUSING



PLA80-SFA-TL4 CAT MOD-
ELS CAP ADAPTER (EG CAT
320)



FFF-6C-WOF—TANK
FLANGE WELD,
TO SUIT FFF5C 2"
NPT



FFF6C - CAT
6 BOLT MOUNT
FLANGE BOLT ON CAT



PLA150-MDT
MICRO SHUT-OFF VALVE
DRAIN TOOL FOR ALUMI-
NUM SYSTEM



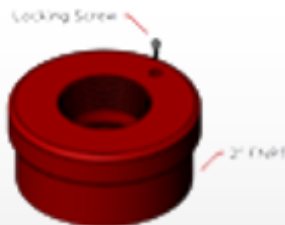
R150-CVDT
CHECK VALVE DRAIN
INSERT



AD150J— 2"
CHECK VALVE
ADAPTOR W/JIC
CONNECTION



AD150— 2" CHECK
VALVE ADAPTOR
CONNECTION



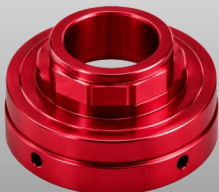
PLA80-M-PTSF
THREADED SPLASH
FILL -2" NPT ADAP-
TOR



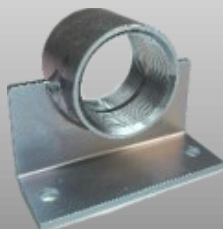
PLA80-SFA-KW3
THREADED
SPLASH FILL -2"
NPT ADAPTOR



PLA80-SFA-PB3
TWIST LOCK
SPLASH FILL -2"
NPT ADAPTOR



PLA80-SFA-WS3TL
THREADED
SPLASH FILL -2"
NPT



SMB2
2" NPT MOUNTING BRACK-
ET FOR REMOTE



FV-P-8
2" NPT
HALF SOCKET



FV-P-9
2" NPT
4 BOLT



PLA150-M PTF
2" NPT FLANGE FOR
PLASTIC TANK



