MFS
MFD

Mobile Filtration Systems

U.S. Patents 6568919 7604738

7 or 14 gpm
26.5 or 53 L/min

FluMoS MOBILE

- Usable with FluMoS Mobile App - HY-TRAX® option only

CSI-C-11 Compatible Product

MFD

MFS

Features and Benefits

- Single, double and triple bowl length option allows the flexibility of additional dirt-holding capacity
- Modular base eliminates hoses between components and minimizes leakage
- Base-ported filter provides easy element service from the top cap
- D5 Dirt Alarm® indicates when filter element needs changed
- Integral suction strainer protects pump
- Hoses and connection tubes included (13' total length)
- Option for the addition of Contamination Sensors and WLAN/LAN Communication (CSI-C-11)

Applications

- Supplementing continuous filtration by system filters
- Cleaning up a hydraulic system following component replacement
- Filtering new fluid before it is put into service
- Transferring fluid from storage tanks and drums to system reservoirs

Description

The Schroeder Mobile Filtration System is a compact, self-contained filtration system equipped with high efficiency, high capacity elements capable of removing particulate contamination and/or water quickly, conveniently and economically. It is perfect for cleaning up existing systems as well as for prefiltering new fluids, since new fluids often have contamination levels significantly higher than that recommended for most hydraulic systems.

The MFS single filtration unit can remove either water or particulate contamination. The MFD dual filtration unit can be used to remove both water and particulate contamination, or for staged particulate contaminant removal.

Contamination Sensor for Remote Visibility Options

HY-TRAX® manual fluid sampling system: Schroeder now offers the HY-TRAX® manual fluid sampling system as an additional option allowing for real-time fluid condition monitoring. ISO particle counts are visually displayed on the TCM. Users will now know when they have reached their desired ISO contamination levels. For more information, please see page 102.

CSI-C-11: Schroeder also offers the CSI-C-11 Communication Interface for WLAN or LAN transmission of data and data storage capabilities. For more information, please see page 38.

Specifications

Flow Rating:	7 gpm (26.5 L/min) max or 14 gpm (53.0 L/min) max
Viscosity Range:	40 - 1,000 SUS (4 - 216 cSt) Higher viscosity version available. Contact factory for details.
Hose Pressure Rating:	30 psig (2.0 bar) @ 150°F (65.6°C) Full vacuum @ 150°F (65.6°C)
Fluid Temperature:	25°F to 150°F (-4°C to 65°C)
Bypass Valve Setting:	Cracking: 30 psi (2 bar)
Material:	Manifold and cap: Cast aluminum Element case: Steel
Compatibility:	All petroleum based hydraulic fluid. Contact factory for use with other fluids.
Motor:	115 VAC Single phase 3/4 hp (7 gpm) or 1-1/2 hp (14 gpm)
Element Change Clearance:	8.50" (215 mm) 1K (9, 18 or 27" depending on model configuration)

Weights

gpm	MFS-2K lb (kg)	MFS-3K lb (kg)	MFD-2K lb (kg)	MFD-3K lb (kg)
7	180 (82)	190 (86)	203 (92)	220 (100)
14	187 (85)	197 (89)	210 (95)	227 (103)

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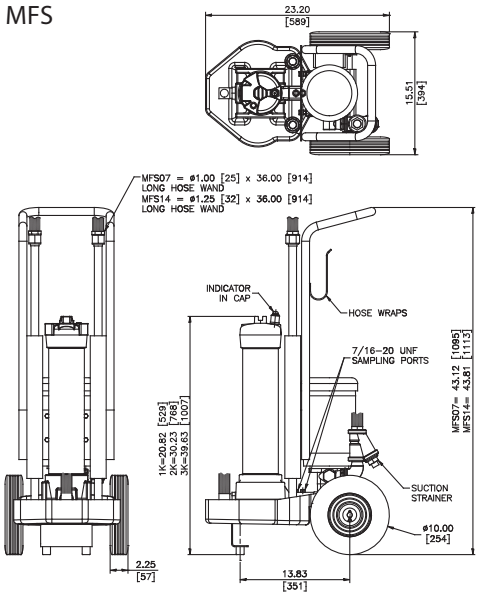
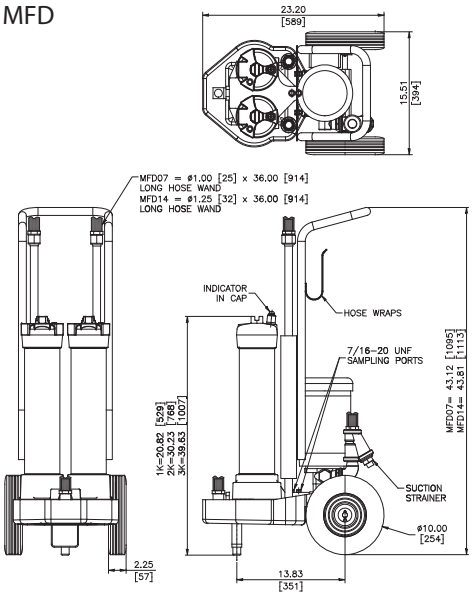
MFS MFD

MFS



MFD



Metric dimensions in ( ).

How to Build a Valid Model Number for a Schroeder MFD:

BOX 1	BOX2	BOX3	BOX4	BOX 5	BOX 6	BOX 7	BOX 8
MFS –	–	–	–	–	–	–	–

Example: NOTE: One option per box

BOX 1	BOX2	BOX3	BOX 4	BOX 5	BOX 6	BOX 7	BOX8	
MFD –	1-27 –	G10 –	G05 –	B –	–	07 –		= MFD1-27G10G05B07

BOX 1

Model
MFS
MFD

BOX 2

No. of Elements/ Element Length
1-18
1-27
2-09
3-09

BOX 3

Element Media First Filter
Z01 = 1 µm Excellement® Z-Media® (synthetic)
Z03 = 3 µm Excellement® Z-Media® (synthetic)
Z05 = 5 µm Excellement® Z-Media® (synthetic)
Z10 = 10 µm Excellement® Z-Media® (synthetic)
Z25 = 25 µm Excellement® Z-Media® (synthetic)
EWR = Water Removal
G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
GWR = Water Removal w/GeoSeal®

BOX 4

Element Media Second Filter (MFD Only)
Z01 = 1 µm Excellement® Z-Media® (synthetic)
Z03 = 3 µm Excellement® Z-Media® (synthetic)
Z05 = 5 µm Excellement® Z-Media® (synthetic)
Z10 = 10 µm Excellement® Z-Media® (synthetic)
Z25 = 25 µm Excellement® Z-Media® (synthetic)
G03 = 3 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
G05 = 5 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
G10 = 10 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
G25 = 25 µm Excellement® Z-Media® (synthetic) w/GeoSeal®
GWR = Water Removal w/GeoSeal®

BOX 5

Seal Material
B = Buna
V = Viton®
H.5 = Skydrol Compatibility

BOX 6

Voltage
Omit = 115 V / 60 Hz / 1-Phase
A = 230 V / 60 Hz / 3-Phase
B = 460 V / 60 Hz / 3-Phase
C = 220 V / 50 Hz / 1-Phase
D = 230 V / 60 Hz / 1-Phase

BOX 7

Pump Size (gpm)
07
14

BOX 8

Particle Counter
Omit = Without Particle Counter
P = Particle Counter
P-CSI = Particle Counter + CSI-C-11 Option
P-CSI-W = Particle Counter + CSI-C-11 + Water Sensor (No Display) Option

Model Number Selection

NOTES:

Box 6. H.5 seal designation may be used with 3, 5, 10, and 25µ Z (synthetic) and calls for EPR seals, stainless steel wire mesh in element(s) and Imron® epoxy coated enclosures on cart. H.5 not available with 7 gpm pump. Imron® is a registered trademark of DuPont.

Box 7. 230 & 460 Volt, 60 Hz options supplied with starters. 230 Volt, 50 Hz units will have plug cut-off from power cord and include no starters, flow ratings reduced to ~5-gpm and 11-gpm. Contact factory for high viscosity version.

Box 8. Particle counter option only available on 115VAC 60 hertz carts. Particle counter is not available with Skydrol fluids.

For replacement element part numbers, please see "Appendix Section - Replacement Elements" of this catalog.