

Full-Size VANGUARD Modular FRLs Filter-Regulator-Lubricators



Model Shown: MVFDRL108W-4

SPECIFICATIONS

Ambient/Media Temperature:

Plastic bowls: 40° to 125°F (4° to 52°C).

Metal bowls with V35 lockout valve:
40° to 150°F (4° to 66°C).

Metal bowls without V35 lockout valve:
40° to 175°F (4° to 79°C).

Bowls: 8-Ounce (240-ml) capacity zinc bowls with clear nylon sight glass or polycarbonate plastic bowls with steel shatterguard. Optional 20-ounce (600-ml) extended lubricator bowl.

Bowl Rings: Aluminum.

Filter Drain:

Internal automatic drain; optional manual drain, internal float drain, or Warrior electronic drain.

Filter Element: 5-µm-rated polyethylene; optional 5-µm, 20-µm, or 40-µm sintered bronze.

Fluid Media: Compressed air.

Heads: Zinc.

Inlet Pressure:

Minimum: 15 psig (1 bar) with automatic drain, 30 psig (2 bar) with internal float drain.

Maximum: 150 psig (10 bar) with metal bowls but no lockout valve: 200 psig (13.7 bar) maximum.

Oil Adjustment: External; tamper-resistant.

Outlet Pressure: Adjustable up to 125 psig (8.6 bar).

Pressure Adjustment Locking Key: Removable.

Pressure Gauge: 0 to 200 psig (14 bar); 1/4 NPT gauge ports front and rear.

Regulator: Nylon dome; acetal knob.

Seals: Nitrile.

MVFDRL108W Models Port Sizes: 1/4, 3/8, 1/2, 3/4

- ◆ Individual filter (**FD100**); diaphragm-type regulator (**R100**); wick-feed lubricator (**L28W**); lockout valve (**V35**).
- ◆ Modular or inline mounting.
- ◆ 5-µm-rated polyethylene filter element; optional sintered bronze elements.
- ◆ Zinc bowls with clear nylon sight glass **or** polycarbonate plastic bowls with steel shatterguard.
- ◆ Internal automatic filter drain; optional manual drain, internal float drain, or Warrior electronic drain.
- ◆ Self-relieving regulator; non-relieving optional.
- ◆ Pressure gauge.
- ◆ NPTF port threads; optional **BSPP** threads.

AIR FLOW DATA

See Flow Charts for individual assembly components on preceding pages.



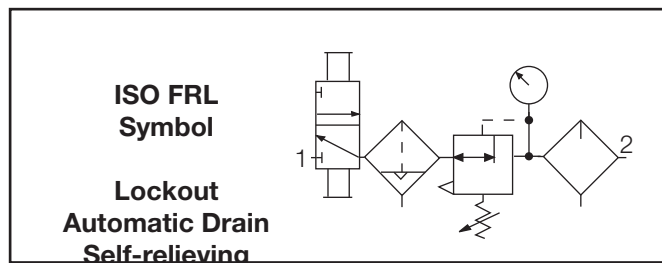
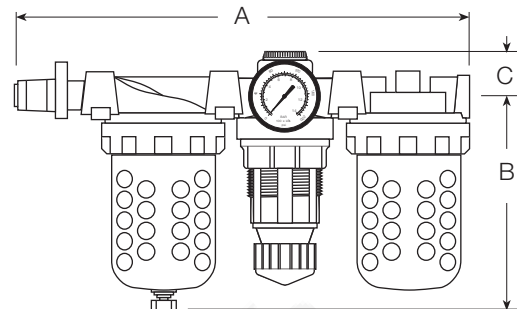
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DIMENSIONS inches (mm)

Bowl	A **	B	C	Depth †	Weight † lb (kg)
8-Oz Metal	13.9 (353)	6.4 (163)	1.3 (33)	2.8 (71)	7.06 (3.20)
8-Oz Plastic	13.9 (353)	5.8 (147)	1.3 (33)	2.8 (71)	7.06 (3.20)
20-Oz Metal	13.9 (353)	9.8 (249)	1.3 (33)	2.8 (71)	7.45 (3.39)

** Without V35 lockout valve deduct 3.8 (97) from dimension A.
† Less gauge.



REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
5-µm polyethylene (Std element).....	KA103-03PE5
5-µm bronze	KA103-03E5
20-µm bronze.....	KA103-03E4
40-µm bronze.....	KA103-03E3

ORDERING INFORMATION

Change the letters in the sample model number below to specify the FRL you want.
NOTE: For model numbers longer than 15 characters, please consult Master Pneumatic.

B M V F D R L 10 8W - 2 Y W

BOWL TYPE

Metal bowls.....B
Plastic bowls...Leave Blank

LOCKOUT VALVE

No valve.....Leave Blank
V35 valve.....V

FILTER DRAIN

No filter Leave blank
Internal automatic drain FD
Manual drain F
Internal float drain (**plastic stem**) F5A
(Must be ordered with plastic bowl option under **BOWL TYPE**).
Internal float drain (**brass stem**) F6A
(Must be ordered with metal bowl option under **BOWL TYPE**).
External Hydro-Jector drain; FE
(Must be ordered with metal bowl option under **BOWL TYPE**).
Warrior electronic drain; F2A
(Must be ordered with metal bowl option under **BOWL TYPE**).

REGULATOR

No Regulator Leave Blank
Regulator R

LUBRICATOR

No Lubricator Leave Blank
Lubricator L

FILTER WITH DIFFERENTIAL GAUGE OPTION

Only applies to standard filter option above. Coalecent options are setup separately in another section.

No filter 1
Standard filter no tapped head 1

PORT TYPE

NPTF threads Leave Blank
BSPP threads W

OPTIONS (More than one option can be chosen. Add in alphabetical order)

None Leave Blank
Non-relieving regulator.....A
Sintered bronze filter element:
5-µm ratingE5
20-µm rating.....E4
40-µm rating.....E3

Adjusting springs:

0-175 psig (0-12 bar).....H **
0-50 psig (0-3.4 bar).....L
Metal Dome MD
Limit maximum psig setting M*
Delete gauge NG
Regulator tee handle T
Quick-fill lubricator Q-capQ

* Insert maximum limited pressure.

** H option spring includes metal dome.

PORT SIZE

1/4 NPTF.....2
3/8 NPTF.....3
1/2 NPTF.....4
3/4 NPTF.....6X

FILTER AND LUBRICATOR BOWL SIZE

Standard 8-ounce bowls 8W
(with lubricator).
Standard 8-ounce bowls 0
(without lubricator).
8-Ounce filter bowl &8WH
20-ounce lubricator bowl
(metal bowls only)

Anyone requiring a filter and/or coalescing filter with a differential pressure gauge, contact factory for number.



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