

Full-Size VANGUARD Modular FRLs Filter-Regulator-Lubricators

MVFDRL108D Models Port Sizes: 1/4, 3/8, 1/2, 3/4



Model Shown: MVFDRL108D-4

- ◆ Individual filter (**FD100**); diaphragm-type regulator (**R100**); sight-feed lubricator (**L28D**); lockout valve (**V35**).
- ◆ Modular or inline mounting.
- ◆ 5- μ m-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.

SPECIFICATIONS

Ambient/Media Temperature: (without lockout valve)
Plastic Bowl, all drain types: 40° to 125°F (4° to 52°C).
Metal Bowl, manual & automatic drains: 40° to 175°F (4° to 79°C).
Metal Bowl, float drains: 40° to 150°F (4° to 66°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 metal lubricator bowl.

Bowl Rings: Aluminum.

Filter Drain:

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

Filter Element: 5- μ m-rated polyethylene; optional 5- μ m, 20- μ m, or 40- μ m 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.

Sight Dome: Clear nylon.

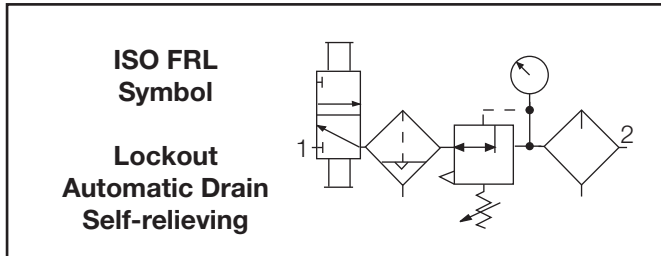
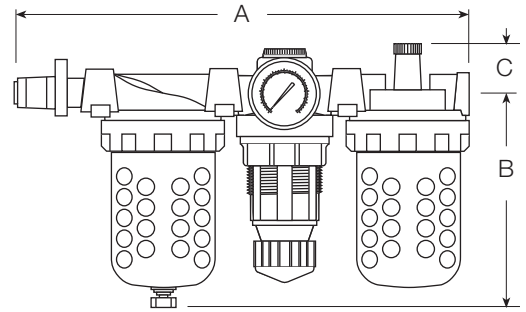
AIR FLOW DATA

See Flow Charts for individual assembly components on preceding pages.

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 FD R L 10 8D - 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. Coalescent options are setup separately in another section.

No filter 1
Standard filter no tapped head 1

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

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 rating..... E5
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-cap Q

* 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

BOWL SIZE

Standard 8-ounce bowls 8D
(with lubricator)
Standard 8-ounce bowls 0
(No lubricator)
8-Ounce filter bowl & 8DH
20-ounce lubricator bowl
(metal bowls only).

For external and additional modular port options see numbering chart on 345 page.

Full-Size VANGUARD Modular FRLs Filter-Regulator-Lubricators

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



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- μ m-rated polyethylene; optional 5- μ m, 20- μ m, or 40- μ m 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.

- ◆ Individual filter (**FD100**); diaphragm-type regulator (**R100**); wick-feed lubricator (**L28W**); lockout valve (**V35**).
- ◆ Modular or inline mounting.
- ◆ 5- μ m-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.

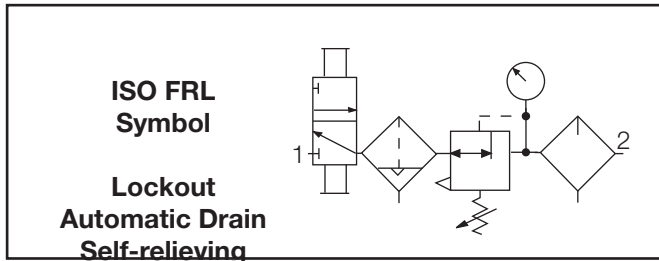
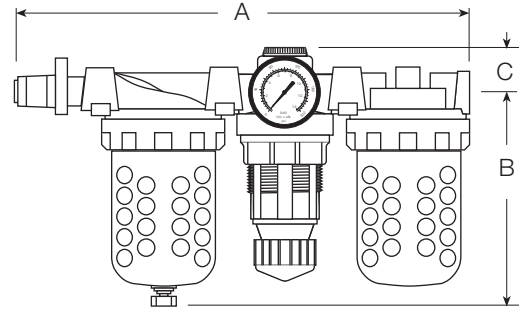
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** Without V35 lockout valve deduct 3.8 (97) from dimension A.
† Less gauge.



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Warrior electronic drain; F2A
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REGULATOR

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Regulator R

LUBRICATOR

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Lubricator L

FILTER WITH DIFFERENTIAL GAUGE OPTION

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Sintered bronze filter element:
5-µm rating E5
20-µm rating E4
40-µm rating E3

Adjusting springs:

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0-50 psig (0-3.4 bar) L

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PORT SIZE

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