

# VANGUARD Modular FRLs Integral Filter/Regulators plus Lubricator

# MVCFDRL108D Models Port Sizes: 1/4, 3/8, 1/2, 3/4



**Model Shown:**  
MVCFDRL108D-6

- ◆ Filter and regulator consolidated in a single assembly (**CFDR100**); sight-feed lubricator (**L28D**); lockout valve (**V35**).
- ◆ Modular or inline mounting.
- ◆ 5- $\mu$ 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 external Hydro-Jector drain.
- ◆ Self-relieving diaphragm-type 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).

**Bodies:** Zinc for filter/regulator and lubricator.

**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:** Nylon.

**Filter Drain:**

Internal automatic drain; optional manual drain, internal float drain, or external Hydro-Jector drain.

**Filter Element:** 5- $\mu$ m-rated polyethylene; optional 5- $\mu$ m, 20- $\mu$ m, or 40- $\mu$ m sintered bronze.

**Fluid Media:** Compressed air.

**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

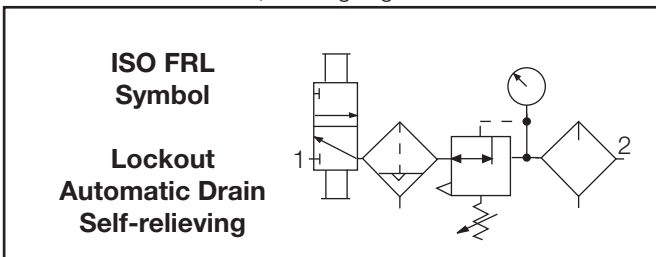
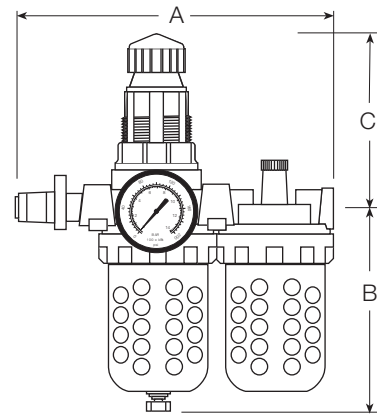
See Flow Charts for individual assembly components on preceding pages.

## DIMENSIONS inches (mm)

Bowls	A *	B	C	Depth †	Weight †
					lb (kg)
Std. Plastic	10.5 (267)	5.8 (147)	3.3 (84)	3.5 (89)	5.94 (2.69)
Std. Metal	10.5 (267)	6.4 (163)	3.3 (84)	3.5 (89)	7.74 (3.51)
Extended Metal	10.5 (267)	9.8 (249)	3.3 (84)	3.5 (89)	9.63 (4.37)

\*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 F/R + L you want.

**NOTE:** For model numbers longer than 15 characters, please consult Master Pneumatic.

**B M V CFD RL 108D - 2 Y W**

### BOWL TYPE

Metal bowls ..... B  
Plastic bowls ... leave Blank

### ASSEMBLY

Modular ..... M  
Pipe nipple ..... Leave Blank

### LOCKOUT VALVE

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

### FILTER DRAIN

Internal automatic drain ..... CFD  
Manual drain ..... CF  
Internal float drain (**plastic stem**) ..... CF5A  
(Must be ordered with plastic bowl option under **BOWL TYPE**).  
Internal float drain (**brass stem**) ..... CF6A  
(Must be ordered with metal bowl option under **BOWL TYPE**).  
External Hydro-Jector drain; ..... CFE  
(Must be ordered with metal bowl option under **BOWL TYPE**).

### BOWL SIZE

Standard 8-ounce bowls ..... 108D  
8-Ounce filter bowl &  
20-ounce lubricator bowl  
(metal bowls only) ..... 108DH

### 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\*  
0-200 psig Gauge ..... Standard  
No gauge ..... NG  
Regulator tee handle ..... T  
Quick-fill lubricator Q-cap ..... Q

### PORT SIZE

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

\* Insert maximum limited pressure.

\*\* H option spring includes metal dome

**For external and additional modular port options see numbering chart on 344 page.**