

# MINIATURE FRLs

## Integral Filter/Regulators plus Lubricator

# CFDRL55 and 56 Models

## Port Sizes: 1/8, 1/4



- ◆ Filter and regulator consolidated in a single assembly (**CFDR55M** or **CFDR56M**); wick-feed lubricator (**L50**).
- ◆ Inline mounting.
- ◆ 5- $\mu$ m-rated polyethylene filter element; optional sintered bronze elements.
- ◆ High-strength polycarbonate plastic bowls or aluminum bowls.
- ◆ Internal automatic filter drain; optional manual drain.
- ◆ Piston-type regulator (**CFDRL55** models) or diaphragm-type (**CFDRL56** models).
- ◆ Self-relieving regulator; non-relieving optional.
- ◆ Pressure gauge.
- ◆ **NPTF** port threads; optional **BSPP** threads or fittings for tubing up to 10 mm.

### SPECIFICATIONS

**Ambient/Media Temperature:**

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

**Metal bowls:** 40° to 175°F (4° to 79°C).

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

**Bowls:** 2-Ounce (60-ml) capacity polycarbonate plastic bowls or aluminum bowls.

**Filter Drain:**

Internal automatic drain; optional manual 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:**

15 psig (1 bar) minimum with automatic drain.

Plastic bowls: 150 psig (10 bar) maximum.

Metal bowls: 200 psig (13.7 bar) maximum.

**Oil Adjustment:** Internal; tamper-resistant.

**Outlet Pressure:** Adjustable up to 100 psig (7 bar).

**Pressure Gauge:** 0 to 160 psig (11 bar); 1/8 NPT gauge ports front and rear.

**Panel Mounting:** 1-3/16 inch (30 mm) hole required.

**Regulator Dome and Knob:** Glass Filled Nylon and Acetal.

**Seals:** Nitrile.

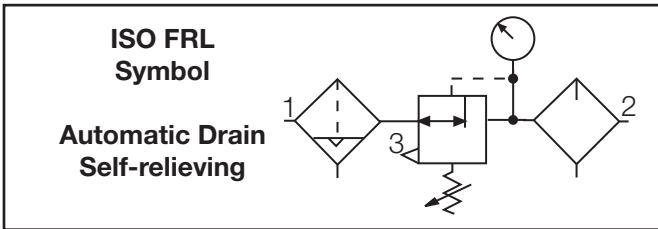
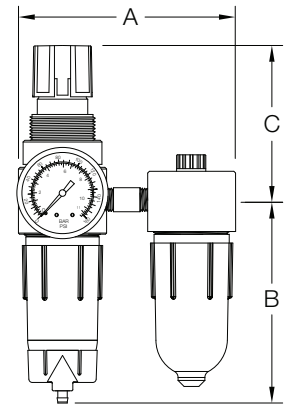
#### AIR FLOW DATA

See Flow Charts for individual assembly components on preceding pages.

## DIMENSIONS inches (mm)

Bowl	A	B	C	Depth †	Weight lb (kg)
Plastic	3.7 (94)	3.9 (99)	2.6 (67)	1.6 (41)	0.66 (0.30)
Metal	4.0 (101)	4.3 (109)	2.6 (67)	1.6 (41)	0.66 (0.30)

† Less gauge.



## REPLACEMENT FILTER ELEMENT KITS

Element Type	Kit Number
5-µm polyethylene (Std element).....	KA130-27PE5
5-µm bronze.....	KA130-27E5
20-µm bronze.....	KA130-27E4
40-µm bronze.....	KA130-27E3

## 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 CFD RL 55 - 2 Y X W

### BOWL TYPE

Plastic bowl.....Leave Blank  
 Metal bowl.....B

### FILTER DRAIN

Internal automatic drain..... CFD  
 Manual drain.....CF

### REGULATOR TYPE

Piston type.....55  
 Diaphragm type.....56

### PORT SIZE

1/8 NPTF.....1  
 1/4 NPTF.....2

### PORT TYPE

NPTF threads ..... Leave Blank  
 BSPP threads ..... W

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

0-160 psig Gauge ..... Standard  
 No Gauge..... NG  
 No Gauge Ports on Head ..... NP  
 Plastic mounting nut..... P  
 Metal mounting nut.....PN  
 Hex plastic mounting nut .....PE

### 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:  
     0-125 psig (0-8.6 bar).....H  
     0-50 psig (0-3.4 bar)..... L  
     0-8 psig (0-0.6 bar)..... L8  
     0-15 psig (0-1.0 bar)..... L15  
     0-30 psig (0-2.1 bar)..... L30  
 Tamper-resistant spinning  
     knob (psig preset) ..... MV(\*)  
 Quick-fill lubricator Q-cap .....Q  
 Viton seals..... V

\*Insert preset pressure.

**MINIATURE FRL's CFDRL55 and CFDR156 Series**