

MINIATURE FRLs

Filter-Regulator-Lubricators

FDRL55 and 56 Models

Port Sizes: 1/8, 1/4



Model Shown: FDRL56-2

- ◆ Individual filter (**FD50**); piston-type regulator (**R55M**) or diaphragm-type (**R56M**); and wick-feed lubricator (**L50**).
- ◆ Inline mounting.
- ◆ 5- μ m-rated polyethylene filter element; optional sintered bronze elements.
- ◆ High-strength polycarbonate plastic bowls **or** aluminum bowls.
- ◆ Internal automatic filter drain; optional manual drain.
- ◆ Self-relieving regulator; non-relieving optional.
- ◆ Pressure gauge.
- ◆ NPTF port threads; optional **BSPP** threads.

SPECIFICATIONS

Ambient/Media Temperature:

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

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

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

Filter Drain:

Internal automatic drain; optional manual 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: Aluminum.

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.

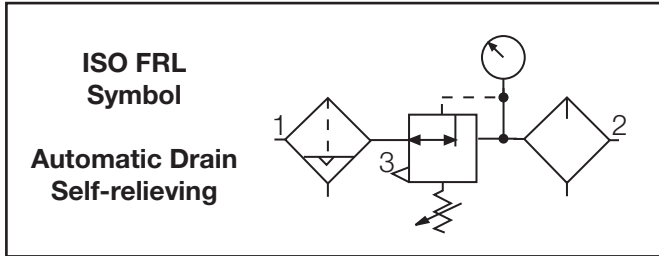
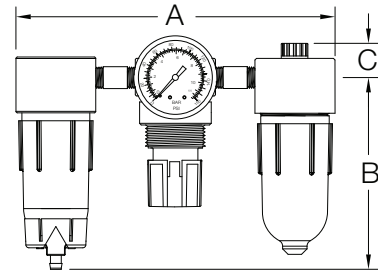
AIR FLOW DATA

See Flow Charts for individual assembly components on preceding pages.

DIMENSIONS inches (mm)

	A	B	C	Depth †	Weight lb (kg)
Plastic	5.5 (140)	3.9 (99)	0.7 (17)	1.6 (41)	0.76 (0.34)
Metal	5.5 (140)	4.3 (109)	0.7 (17)	1.6 (41)	

† Less gauge.



REPLACEMENT FILTER ELEMENT KITS

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

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 FD RL 55 - 2 Y G W

BOWL TYPE

Plastic bowls Leave Blank
Metal bowls B

FILTER DRAIN

No Filter Leave Blank
Internal automatic drain FD
Manual drain F

REGULATOR

No Regulator Leave Blank
Regulator R

LUBRICATOR

No Lubricator Leave Blank
Lubricator L

REGULATOR TYPE

No Regulator 50
Piston type 55
Diaphragm type 56

PORT SIZE

1/8 NPTF 1
1/4 NPTF 2

PORT TYPE

NPTF threads Leave Blank
BSPB threads W

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

None Leave Blank
0-160 PSI Gauge G
Plastic Panel Mount Nut P
Metal Panel Mount 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- μ m rating E5
20- μ m rating E4
40- μ m 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

Tapped modified head to T

to allow 50-01 bracket assy.

Both on Filter and Lubricator.

Viton seals V

*Insert preset pressure.

MINIATURE FRL's FDRL55 and FDRL56 Series