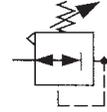




East: 732-390-8480 (NJ)
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INS-29C (revised 10/2012)



29 Series - Modular Filter/Regulator

Application:

The 29 Series Modular Filter/Regulator is designed for almost any application. These units feature a wide variety of body sizes and port sizes making this series highly versatile. This series also includes options and accessories suitable for demanding OEM to rugged industrial applications.

Specifications:

Proof Pressure	-----	220 PSI
Max Operating Pressure	-----	145 PSI
Max Operating Temperature	-----	150°F
Ambient and Fluid Temp	-----	32°F to 140°F
Construction	-----	Relieving Type
Gauge Type ¹	-----	Square
Adjustment Ranges		
Standard	-----	5-120 PSI
Optional	-----	5-35 PSI

Material

Body	-----	Aluminum
Filter Element ¹	-----	Polypropylene
Bowl Materials		
Plastic	-----	Polycarbonate
Metal	-----	Aluminum
Bowl Guard ²		Steel

Parts and Accessories:

Replacement Plastic Bowls

2C-Miniature	29-2F40
3C-Compact	29-3F40
4C-Standard	29-4F40

Replacement Plastic Bowls w/ Auto Drain

2C-Miniature	29-2F40D
3C-Compact	29-3F40D
4C-Standard	29-4F40D

Replacement Metal Bowls w/ Auto Drain

2C-Miniature	29-2F40DM
3C-Compact	29-3F40DM
4C-Standard	29-4F40DM

Repair Kits

2C-Miniature	29-2CRK
3C-Compact	29-3CRK
4C-Standard	29-4CRK

¹ Standard: 40µm - Optional: 5µm, 20µm

² Bowl Guard unavailable of 2F-Miniature



29-2C14-00



29-3C38-00

Part Numbering System

29 - 3 C 38 - 0 0 G

Body Size
 2 - Miniature
 3 - Compact
 4 - Standard
 5 - High Flow

Port Size
 18 - 1/8" NPT
 14 - 1/4" NPT
 38 - 3/8" NPT
 12 - 1/2" NPT
 34 - 3/4" NPT
 10 - 1" NPT

Filter Options
 0 - 40 µm
 F - 20 µm
 X - 5 µm

Adj. Range
 0 - 5-120 PSI
 L - 5-35 PSI

Options
 D - Auto Drain
 G - Round Gauge
 M - Metal Bowl
 DG - Drain, Gauge
 DM - Drain, Metal Bowl
 GM - Gauge, Metal Bowl
 DGM - Drain, Gauge, Metal Bowl

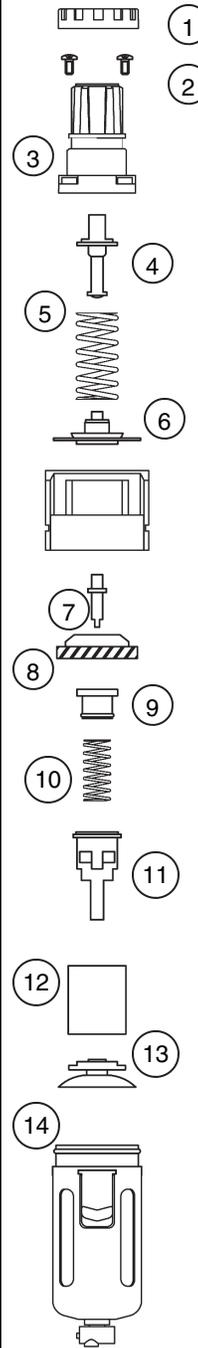
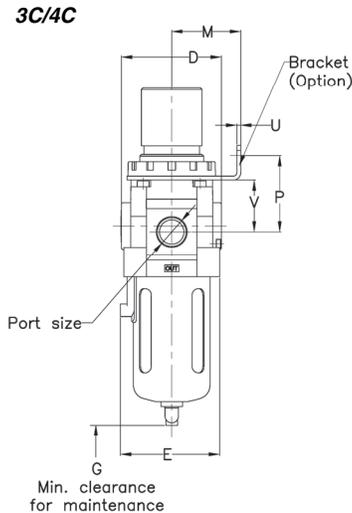
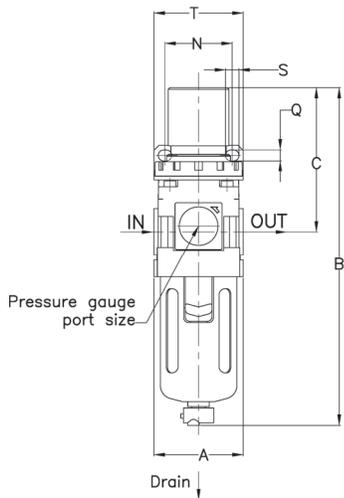
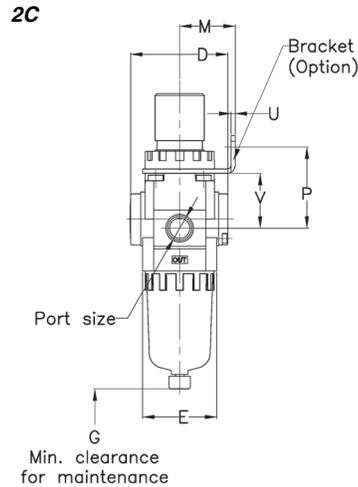
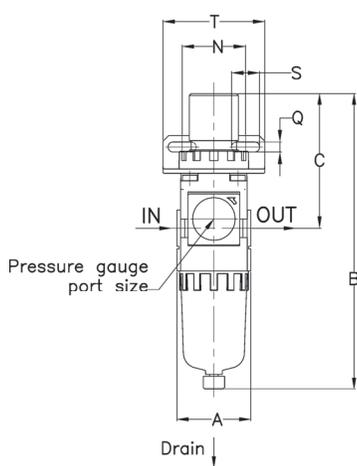
Body Size	Ports (NPT)	Gauge Port	Weight	Max Flow
2C-Miniature	1/8", 1/4"	1/8" NPT	.5 lbs	20 CFM
3C-Compact	1/4", 3/8"	1/8" NPT	.75 lbs	70 CFM
4C-Standard	3/8", 1/2"	1/4" NPT	1.15 lbs	140 CFM

Test Conditions: Supply Pressure = 100 PSI, Set Pressure = 70 PSI



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29 Series - Modular Filter/Regulator



Regulator Assembly:

- 1 - Panel Nut
- 2 - Bonnet Screw (4)
- 3 - Bonnet Assembly
- 4 - Adjusting Screw
- 5 - Adjusting Spring
- 6 - Diaphragm Assembly
- 7 - Poppet Stem
- 8 - Deflector vane
- 9 - Poppet
- 10 - Poppet spring
- 11 - Retainer
- 12 - Filter element
- 13 - Retainer baffle
- 14 - Bowl assembly

Cleaning and Maintenance:

Removal of the filter from the line for cleaning is not necessary. Disassembly requires a phillips head screwdriver. The poppet, poppet stem, poppet spring, and filter element should be cleaned when erratic operation or loss of pressure is experienced. The filter/regulator can be disassembled as follows. Air supply must be shut off and the unit must be depressurized prior to disassembly. To clean the lower half of the unit, depress the safety tab on the clamping ring and, by rotating it slightly and pulling downward, the clamp is removed from the head of the unit. The bowl can then be separated from the unit with slight downward force. Unscrew the retainer baffle from the stem and remove the filter element. Then carefully unscrew the retainer to remove the poppet spring, poppet, deflector vane and poppet stem. Clean the poppet stem, poppet, poppet spring and filter element with mild detergent and reassemble unit. To clean the upper half of the unit, remove the four bonnet assembly screws and carefully remove the adjusting screw, adjusting spring and diaphragm assembly. Clean with mild detergent and dry completely before reassembly.

Model	Standard Specifications				Bracket Mounting Size									With Auto Drain
	A	B	C	D	E	G	M	N	P	Q	S	T	U	B
2C	1.57	6.30	2.87	2.05	1.57	1.57	1.18	1.34	1.73	.22	.61	2.17	.09	6.97
3C	2.08	7.91	3.39	2.32	2.24	2.17	1.61	1.46	1.81	.26	.31	2.08	.09	9.53
4C	2.75	9.41	3.62	2.95	2.87	3.15	1.96	2.13	2.13	.33	.41	2.75	.09	10.94