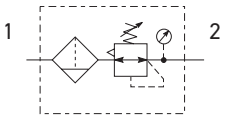
P33 Filter / Regulators – Standard

- Integral 1/2" or 3/4" ports (NPT & BSPP)
- High efficiency 5 micron element as standard
- Excellent water removal efficiency
- Robust but lightweight aluminum construction
- Positive bayonet latch to ensure correct & safe fitting
- Secondary pressure ranges
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation



Port Size	Description / Relieving	Bowl / Drain Type ‡	Part Number
1/2"	125 psig (8 bar)	Poly / Manual	**P33EA14EGMBNGP**
1/2"	125 psig (8 bar)	Poly / Auto	**P33EA14EGABNGP**
1/2"	125 psig (8 bar)	Metal / Manual	**P33EA14ESMBNGP**
1/2"	125 psig (8 bar)	Metal / Auto	**P33EA14ESABNGP**
3/4"	125 psig (8 bar)	Poly / Manual	**P33EA16EGMBNGP**
3/4"	125 psig (8 bar)	Poly / Auto	**P33EA16EGABNGP**
3/4"	125 psig (8 bar)	Metal / Manual	**P33EA16ESMBNGP**
3/4"	125 psig (8 bar)	Metal / Auto	**P33EA16ESABNGP**

‡ For polycarbonate bowl, see caution in Engineering Section A.

Operating Information

Flow capacity*:	1/2	200 scfm (94 dm³/s, ANR)
	3/4	235 scfm (109 dm³/s, ANR)
Operating temperature:		
Plastic bowl		-13°F to 125°F (-25°C to 52°C)
Metal bowl		-13°F to 150°F (-25°C to 65.5°C)
Supply pressure (max):		
Plastic bowl		150 psig (10 bar)
Metal bowl		250 psig (17 bar)
Standard filtration:		5 micron
Useful retention†:		2.8 US oz. (85 cm³)
Adjusting range pressure:		0 to 30 psig (0 to 2 bar) 0 to 60 psig (0 to 4 bar) 0 to 125 psig (0 to 8 bar) 0 to 250 psig (0 to 17 bar)
Gauge port (2 each):		1/4 NPT, BSPP, BSPT
Weight:		1.87 lb. (0.85 kg)

* Inlet pressure 145 psig (10 bar). Secondary pressure 91.3 psig (6.3 bar) and 14.5 psig (1 bar) pressure drop.

† Useful retention refers to volume below the quiet zone baffle.

Ordering Information:

P33EA 1 6 E G M B N G P

Basic Series

Global Modular Standard Filter / Regulator	P33EA

Thread Type

BSPP	1
NPT	9

Element

5µ Element	E

Adjustment

N	Non-Rising Knob

Mounting

P	Plastic Panel Mount Nut

Port Size

1/2	4
3/4	6

Relief

B	Relieving
N	Non-Relieving

Adjustment Range

	With Round Gauge
Z	30 psig; 2 bar; 0.2 MPa
M	60 psig; 4 bar; 0.4 MPa
G	125 psig; 8 bar; 0.8 MPa
J§	250 psig; 17 bar; 1.7 MPa
	Without Gauge
Y	30 psig; 2 bar; 0.2 MPa
L	60 psig; 4 bar; 0.4 MPa
N	125 psig; 8 bar; 0.8 MPa
H§	250 psig; 17 bar; 1.7 MPa

Bowl Type

Poly Bowl with Bowl Guard	G
Metal Bowl without Sight Gauge	M
Metal Bowl with Sight Gauge	S

Drain Type

M	Manual Drain
A	Auto Drain

§ Not available with poly bowl with bowl guard.

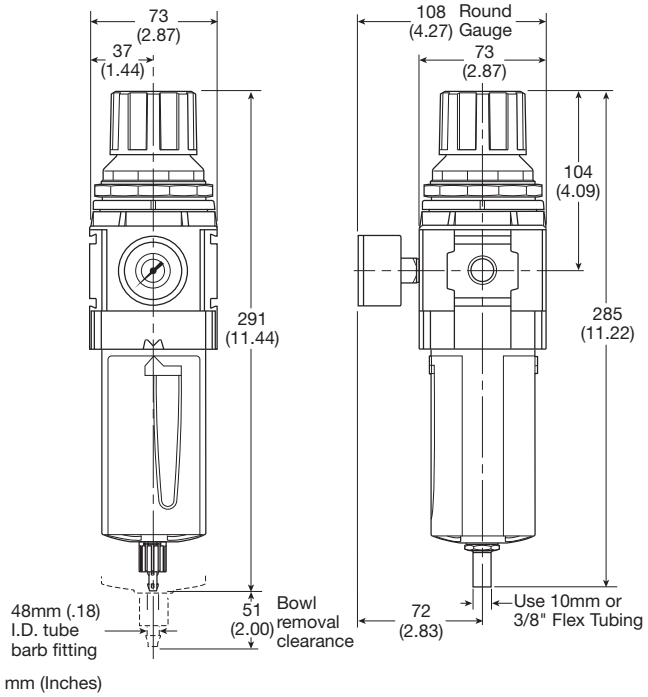
Most Popular

Material Specifications

Body	Aluminum
Adjustment knob	Acetal
Body cap	ABS
Element retainer / baffle	Acetal
Plastic bowl	Polycarbonate
Metal bowl	Aluminum
Filter element	Sintered Polyethylene
Seals	Nitrile
Springs	Steel, stainless steel
Valve assembly	Brass / nitrile
Diaphragm assembly	Nitrile / zinc
Panel nut	Acetal
Sight gauge	Nylon

Repair and Service Kits

Plastic bowl / bowl guard, manual drain	**P33KA00BGM**
Metal bowl / sight gauge, manual drain	**P33KA00BSM**
Auto drain	**P32KA00DA**
5µ particle filter element	**P33KA00ESE**
Panel mount nut - Aluminum	**P33KA00MM**
Panel mount nut - Plastic	**P33KA00MP**
Angle bracket (fits to panel mount threads)	**P33KA00MR**
T-bracket (fits to body connector)	**P32KA00MB**
T-bracket with body connector	**P32KA00MT**
Body connector	**P32KA00CB**

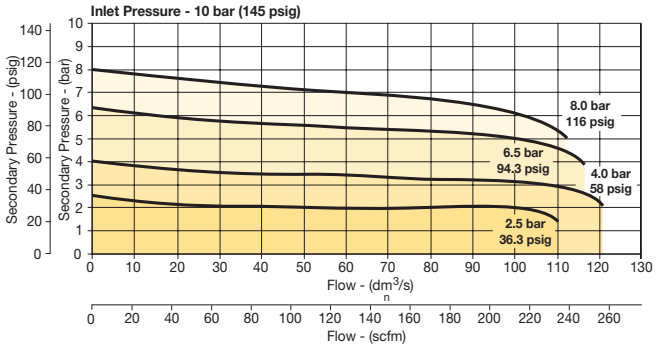


Manual Drain **Automatic Drain**

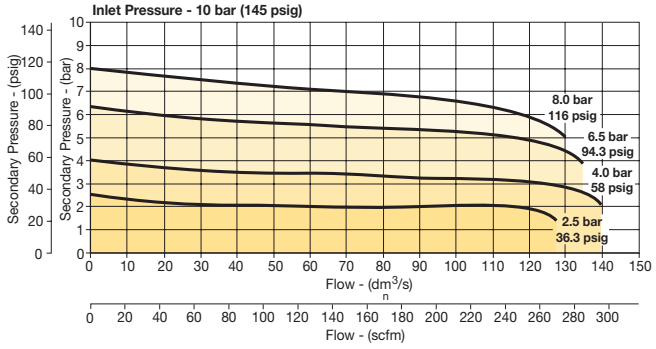
Most Popular

Flow Charts

P33EA 1/2" Filter / Regulator



P33EA 3/4" Filter/Regulator



⚠ WARNING

Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed Maximum primary pressure rating.

CAUTION:

REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting devices may be obtained only by special design. For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.

Gauges

50mm (2") round 1/4" center back mount	0-60 psig / 0-4 bar	**P6G-ERB2040**
	0-160 psig / 0-10 bar	**P6G-ERB2110**
	0-300 psig / 0-20 bar	**P6G-ERB2200**

For best performance, regulated pressure should always be set by increasing the pressure up to the desired setting.