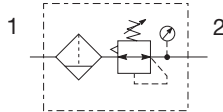


P33 Filter / Regulators – Standard

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- 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	P33EA94EGMBNGP
1/2"	125 psig (8 bar)	Poly / Auto	P33EA94EGABNGP
1/2"	125 psig (8 bar)	Metal / Manual	P33EA94ESMBNGP
1/2"	125 psig (8 bar)	Metal / Auto	P33EA94ESABNGP
3/4"	125 psig (8 bar)	Poly / Manual	P33EA96EGMBNGP
3/4"	125 psig (8 bar)	Poly / Auto	P33EA96EGABNGP
3/4"	125 psig (8 bar)	Metal / Manual	P33EA96ESMBNGP
3/4"	125 psig (8 bar)	Metal / Auto	P33EA96ESABNGP

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

Operating information

Flow capacity*:	1/2 3/4	200 scfm (94 dm³/s, ANR) 235 scfm (109 dm³/s, ANR)
Operating temperature:		Plastic bowl Metal bowl
		-13°F to 125°F (-25°C to 52°C) -13°F to 150°F (-25°C to 65.5°C)
Supply pressure (max):		Plastic bowl Metal bowl
		150 psig (10 bar) 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 lbs (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.

Air quality: Within ISO 8573-1: 1991 Class 3 (Particulates)
Within ISO 8573-1: 2001 Class 6 (Particulates)

Ordering Information:

P33EA		9	6	E	G	M	B	N	G	P
Basic Series		Thread Type		Element		Adjustment		Mounting		
Global Modular Standard Filter / Regulator		BSPP 1 BSPT 2 NPT 9		5µ Element E		N Non-Rising Knob		P Plastic Panel Mount Nut		
		Port Size				Relief		Adjustment Range		
		1/2 4 3/4 6				B Relieving N Non-Relieving		With Round Gauge		
				Bowl Type		Drain Type		Z 30 psig; 2 Bar; 0.2 MPa		
				Poly Bowl with Bowl Guard G		M Manual Drain		M 60 psig; 4 Bar; 0.4 MPa		
				Metal Bowl without Sight Gauge M		A Auto Drain		G 125 psig; 8 Bar; 0.8 MPa		
				Metal Bowl with Sight Gauge S				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		

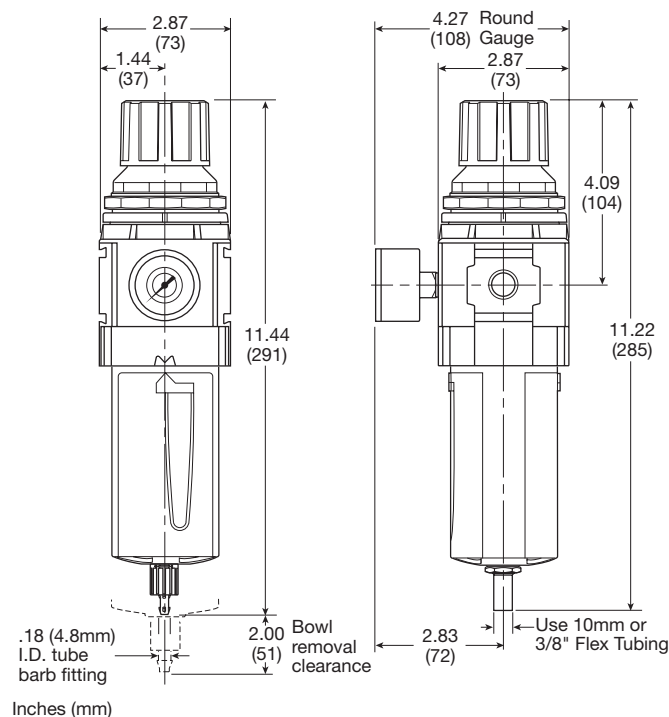
§ Not available with poly bowl with bowl guard.

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
Diaphragm repair kit - Relieving	P33KA00RB
Diaphragm repair kit - Non-relieving	P33KA00RC
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

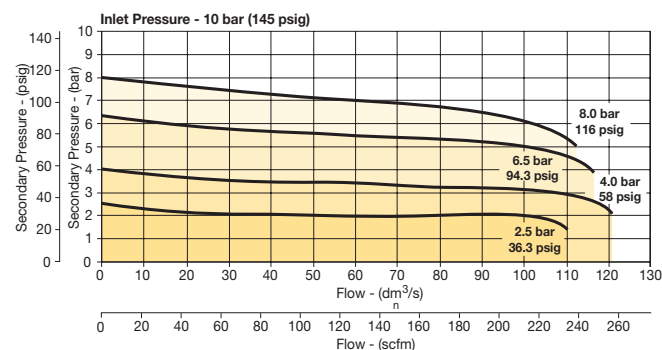


Manual Drain

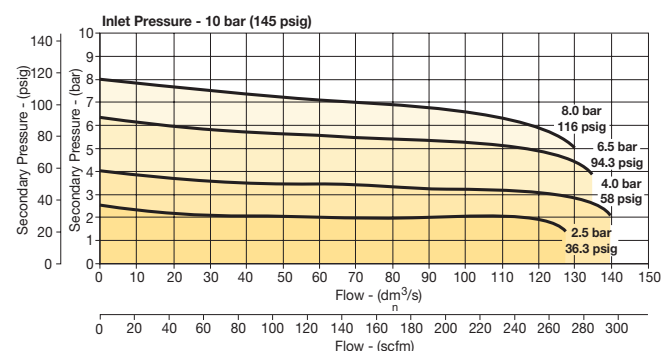
Automatic Drain

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	0-30 psig / 0-2 bar	K4520N14030
1/4" center back mount	0-60 psig / 0-4 bar	K4520N14060
	0-160 psig / 0-11 bar	K4520N14160
	0-300 psig / 0-20 bar	K4520N14300

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

B

Global Air
Preparation

Introduction

Filters

Coalescers

Regulators

Filter/
Regulators

Lubricators

Combinations

Accessories
and Kits


For inventory, lead times, and kit