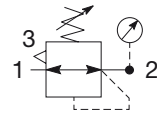


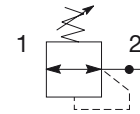
Standard Regulator - P33



Symbols



Self relieving regulator with gauge



Non-relieving regulator

- Integral 1/2" or 3/4" ports (NPT, BSPP & BSPT)
- Robust but lightweight aluminum construction
- Secondary pressure ranges 0-2 bar (0-30 psig), 0-4 bar (0-60 psig), 0-8 bar (0-125 psig), 0-17 bar (0-250 psig)
- Secondary aspiration plus balanced poppet provides quick response and accurate pressure regulation
- Relieving & Non-relieving types
- Non-rising knob

Options:

P33RA 9 6 B N N P

Basic series Global modular standard regulator P33RA	Thread type BSPP 1 BSPT 2 NPT 9	Port size 1/2 4 3/4 6	Relief Relieving B Non-relieving N Reverse flow-relieving R	Adjustment Non-rising knob N	Mounting P Plastic panel mount nut
			Adjustment range		
			With round gauge		
			Z	2 bar; 30 psig; 0.2 MPa	
			M	4 bar; 60 psig; 0.4 MPa	
			G	8 bar; 125 psig; 0.8 MPa	
			J	17 bar; 250 psig; 1.7 MPa	
			Without gauge		
			Y	2 bar; 30 psig; 0.2 MPa	
			L	4 bar; 60 psig; 0.4 MPa	
			N	8 bar; 125 psig; 0.8 MPa	
			H	17 bar; 250 psig; 1.7 MPa	

Bold items are most common.

Port size	Description	Flow† dm ³ /s (scfm)	Max. bar (psig)	Height mm (inches)	Width mm (inches)	Part number†
1/2"	8 bar (125 psig) relieving	110 (233)	20 (300)	149 (5.87)	73 (2.87)	P33RA94BNNP
1/2"	8 bar (125 psig) relieving + gauge	110 (233)	20 (300)	149 (5.87)	73 (2.87)	P33RA94BNGP
3/4"	8 bar (125 psig) relieving	110 (233)	20 (300)	149 (5.87)	73 (2.87)	P33RA96BNNP
3/4"	8 bar (125 psig) relieving + gauge	110 (233)	20 (300)	149 (5.87)	73 (2.87)	P33RA96BNGP

† Standard part numbers shown in bold. For other models refer to Options chart above.
 ‡ Flow with 10 bar (145 psig) inlet pressure, 6.3 bar (91.3 psig) set pressure and 1 bar (14.5 psig) pressure drop.

Specifications

Flow capacity*	1/2	110 dm ³ /s (233 scfm)
	3/4	110 dm ³ /s (233 scfm)
Operating temperature	-25°C to 65.5°C (-13°F to 150°F)	
Max. supply pressure	20 bar (300 psig)	
Adjusting range pressure	0-2 bar (30 psig) 0-4 bar (60 psig) 0-8 bar (125 psig) 0-17 bar (250 psig)	
Port size	BSPP / BSPT / NPT	1/2, 3/4
Gauge port (2 ea.)	BSPP / BSPT / NPT	1/4
Weight	0.62 kg (1.37 lbs)	

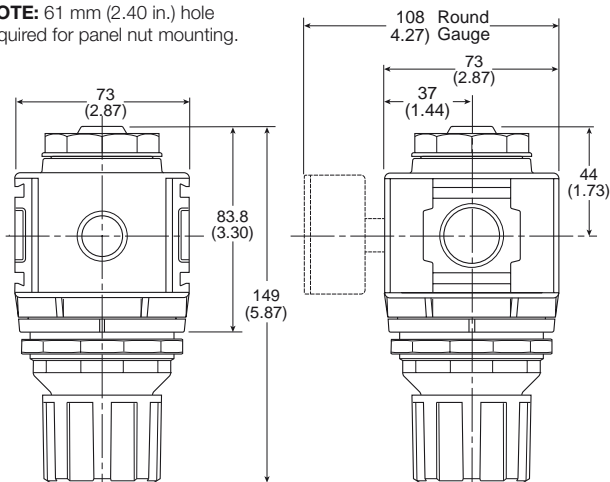
* Inlet pressure 10 bar (145 psig). Secondary pressure 6.3 bar (91.3 psig).

Material Specifications

Body	Aluminum	
Adjustment knob	Acetal	
Body cap	ABS	
Bonnet	33% Glass-filled nylon	
Diaphragm assembly	Nitrile / Zinc	
Bonnet	33% Glass-filled nylon	
Valve assembly	Brass / Nitrile	
Springs	Main regulating valve	Steel S.S.
Seals	Nitrile	
Panel nut	Acetal	

Dimensions mm (inches)

NOTE: 61 mm (2.40 in.) hole required for panel nut mounting.



⚠ WARNING

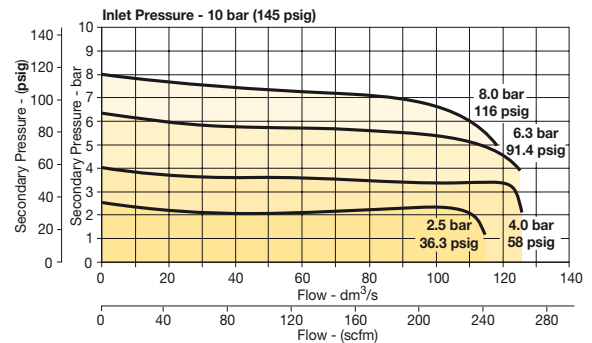
**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed Maximum primary pressure rating.**

CAUTION:

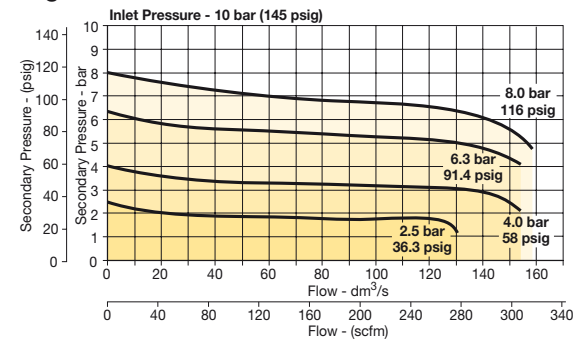
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting 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.

Flow Charts

1/2 Regulator



3/4 Regulator



Repair and Service Kits

Regulator repair kit - relieving	P33KA00RB
Regulator repair kit - non-relieving	P33KA00RC
Panel mount nut - aluminum	P33KA00MM
Panel mount nut - plastic	P33KA00MP
Angle bracket (attaches via panel nut)	P33KA00MR
T-bracket with body connector	P32KA00MT
T-bracket	P32KA00MB
Body connector	P32KA00CB

Gauges

50mm (2") Round 1/4" center back mount

0-30 psig / 0-2 bar	K4520N14030
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.

