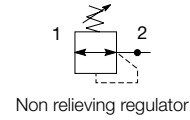
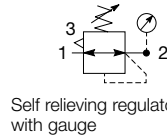


**Parker One Pneumatic**

**Standard Regulator - P33**



**Symbols**



- 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:**

<b>P 33</b>	<b>RA</b>				<b>N</b>		<b>P</b>
<b>Thread type</b>		<b>Port size</b>		<b>Mounting</b>			
BSPP	<b>1</b>	1/2	<b>4</b>	Plastic panel mount nut		<b>P</b>	
BSPT	<b>2</b>	3/4	<b>6</b>				
NPT	<b>9</b>						
<b>Relief</b>		<b>Adjustment range</b>					
Relieving	<b>B</b>	<b>With round gauge</b>					
Non relieving	<b>N</b>	2 bar; 30 psig; 0.2 MPa		<b>Z</b>			
Reverse flow / relieving	<b>R</b>	4 bar; 60 psig; 0.4 MPa		<b>M</b>			
		8 bar; 125 psig; 0.8 MPa		<b>G</b>			
		17 bar; 250 psig; 1.7 MPa		<b>J</b>			
		<b>Without gauge</b>					
		2 bar; 30 psig; 0.2 MPa		<b>Y</b>			
		4 bar; 60 psig; 0.4 MPa		<b>L</b>			
		8 bar; 125 psig; 0.8 MPa		<b>N</b>			
		17 bar; 250 psig; 1.7 MPa		<b>H</b>			

Port size	Description	Order Code†	Flow dm <sup>3</sup> /s (scfm)	Max. bar (psig)	Height mm (inches)	Width mm (inches)	Depth mm (inches)
1/2"	8 bar (125 psig) Relieving	<b>P33RA24BNNP</b>	100 (212)	20 (300)	149 (5.9)	73 (2.9)	73 (2.9)
1/2"	8 bar (125 psig) Relieving + Gauge	<b>P33RA24BNGP</b>	100 (212)	20 (300)	149 (5.9)	73 (2.9)	73 (2.9)
3/4"	8 bar (125 psig) Relieving	<b>P33RA26BNNP</b>	100 (212)	20 (300)	149 (5.9)	73 (2.9)	73 (2.9)
3/4"	8 bar (125 psig) Relieving + Gauge	<b>P33RA26BNGP</b>	100 (212)	20 (300)	149 (5.9)	73 (2.9)	73 (2.9)

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



**Parker One Pneumatic**

**Specifications**

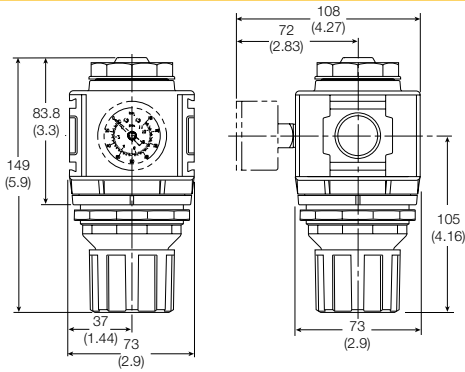
Flow Capacity*	1/2	100 dm <sup>3</sup> /s (212 scfm)
	3/4	100 dm <sup>3</sup> /s (212 scfm)
Max. Operating Temperature	65.5°C (150°F)	
Max. Supply Pressure	20 bar (300 psig)	
Adjusting Range Pressure	0-2 bar (30 psig)	
	0-4 bar (60 psig)	
	0-8 bar (125 psig)	
	0-17 bar (250 psig)	
Port Size	BSPP / BSPT / 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).

**Materials of Construction**

Body	Aluminum	
Adjustment Knob	Acetal	
Body Cap	ABS	
Bonnet	33% Glass-filled Nylon	
Diaphragm Assembly	Nitrile / Zinc	
Valve Assembly	Brass / Nitrile / Acetal	
Springs	Main Regulating	Steel
	Valve	S.S.
Seals	Nitrile	
Panel Nut	Acetal	

**Dimensions**



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

**⚠ WARNING**

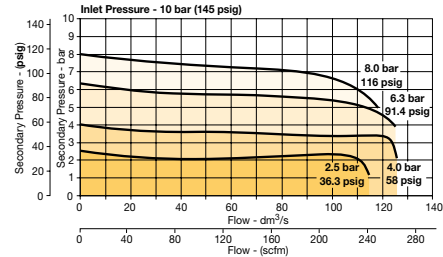
**Product rupture can cause serious injury.  
Do not connect regulator to bottled gas.  
Do not exceed Maximum primary pressure rating.**

**CAUTION:**

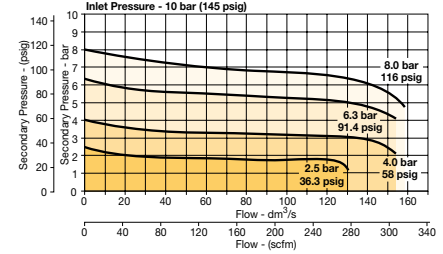
**REGULATOR PRESSURE ADJUSTMENT** – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and 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	<b>P33KA00RB</b>
Regulator repair kit - Non-relieving	<b>P33KA00RC</b>
Panel mount nut - Aluminum	<b>P33KA00MM</b>
Panel mount nut - Plastic	<b>P33KA00MP</b>
Angle Bracket (uses panel mount threads)	<b>P33KA00MR</b>
T-Bracket with body connector	<b>P32KA00MT</b>
T-Bracket	<b>P32KA00MB</b>
Body connector	<b>P32KA00CB</b>

**Gauges**

<b>50mm (2") Round 1/4" center back mount</b>	
0-2 bar / 0-0.2 Mpa / 0-30 psig	<b>K4520R1402B</b>
0-4 bar / 0-0.4 Mpa / 0-60 psig	<b>K4520R1404B</b>
0-11 bar / 0-1.1 Mpa / 0-160 psig	<b>K4520R1411B</b>
0-20 bar / 0-2 Mpa / 0-300 psig	<b>K4520R1420B</b>

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

