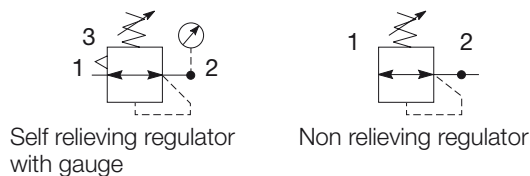


**Global Air Preparation System**

**Compact Semi-Precision Regulator – P32**



**Symbols**



- Integral 1/4", 3/8" or 1/2" 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>P32RB</b>	<b>9</b>	<b>2</b>	<b>P</b>	<b>N</b>	<b>N</b>	<b>P</b>
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**Basic series**

Global modular compact regulator **P32RB**

**Thread type**

BSPP	1
BSPT	2
NPT	9

**Port size**

1/4"	2
3/8"	3
1/2"	4

**Relief**

Relieving	P
Non-relieving	N

**Mounting**

P Plastic panel mount nut

**Adjustment range**

With square gauge		With round gauge	
psig	bar	Z	M
1 = 30*	V = 2*	2 bar; 30 psig; 0.2 MPa	4 bar; 60 psig; 0.4 MPa
3 = 60	S = 4	G	8 bar; 125 psig; 0.8 MPa
5 = 125	T = 8	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

\* Unit comes with 0-4 bar or 0-60 psig gauge respectively.

**Bold items are most common.**

Note: Regulators will reverse flow as standard.

Port size	Description	Flow† dm <sup>3</sup> /s (scfm)	Max. bar (psig)	Height mm (inches)	Width mm (inches)	Depth mm (inches)	Part number‡
1/4"	8 bar (125 psig) relieving	25 (53)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)	<b>P32RB92PNNP</b>
1/4"	8 bar (125 psig) relieving + gauge	25 (53)	20 (300)	136 (5.4)	60 (2.36)	93 (3.66)	<b>P32RB92PNGP</b>
3/8"	8 bar (125 psig) relieving	25 (53)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)	<b>P32RB93PNNP</b>
3/8"	8 bar (125 psig) relieving + gauge	25 (53)	20 (300)	136 (5.4)	60 (2.36)	93 (3.66)	<b>P32RB93PNGP</b>
1/2"	8 bar (125 psig) relieving	25 (53)	20 (300)	136 (5.4)	60 (2.36)	60 (2.36)	<b>P32RB94PNNP</b>
1/2"	8 bar (125 psig) relieving + gauge	25 (53)	20 (300)	136 (5.4)	60 (2.36)	93 (3.66)	<b>P32RB94PNGP</b>

† 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.

**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.

**⚠ WARNING**

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



# Global Air Preparation System

## Specifications

Flow capacity*	1/4	25 dm <sup>3</sup> /s (53 scfm)
	3/8	25 dm <sup>3</sup> /s (53 scfm)
	1/2	25 dm <sup>3</sup> /s (53 scfm)
Effect of supply pressure variation	0.04 bar (0.6 PSIG) for 1.7 bar (25 PSIG) change in P1	
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	1/4, 3/8, 1/2
Gauge port (2 ea.)	BSPP / BSPT / NPT	1/4
Weight	0.41 kg (0.90 lbs)	

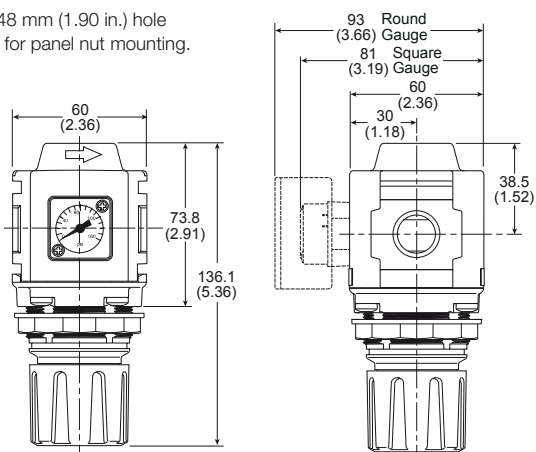
\* Inlet pressure 10 bar (145 psig). Secondary pressure 6.3 bar (91.3 psig).

## Material Specifications

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

## Dimensions mm (inches)

**NOTE:** 48 mm (1.90 in.) hole required for panel nut mounting.

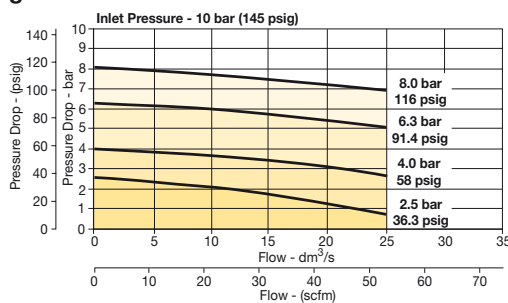


## Repair and Service Kits

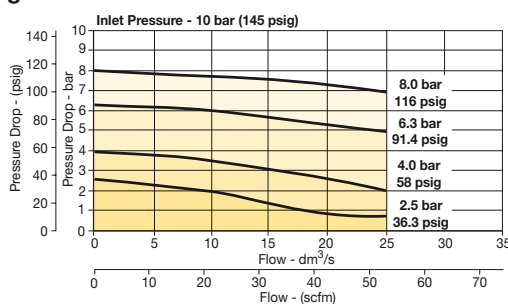
Regulator repair kit - relieving	<b>P32KB00RB</b>
Regulator repair kit - non-relieving	<b>P32KB00RC</b>
Panel mount nut - aluminum	<b>P32KA00MM</b>
Panel mount nut - plastic	<b>P32KA00MP</b>
Angle bracket (attaches via panel nut)	<b>P32KB00MR</b>
T-bracket with body connector	<b>P32KA00MT</b>
T-bracket	<b>P32KA00MB</b>
Body connector	<b>P32KA00CB</b>

## Flow Charts

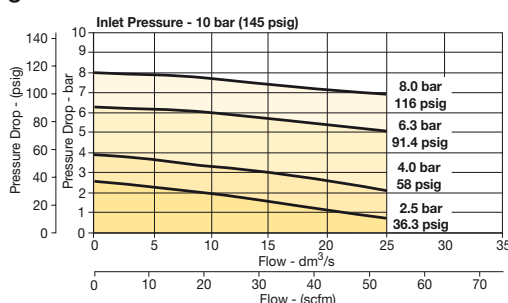
### 1/4 Regulator



### 3/8 Regulator



### 1/2 Regulator



## Gauges

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

0-30 psig / 0-2 bar	<b>K4520N14030</b>
0-60 psig / 0-4 bar	<b>K4520N14060</b>
0-160 psig / 0-11 bar	<b>K4520N14160</b>
0-300 psig / 0-20 bar	<b>K4520N14300</b>

### Square flush mount gauge

0-4 bar	<b>K4511SCR04B</b>
0-11 bar	<b>K4511SCR11B</b>
0-60 psig	<b>K4511SCR060</b>
0-160 psig	<b>K4511SCR160</b>

### Square with adapter kit

0-4 bar	<b>P6G-PR10040</b>
0-11 bar	<b>P6G-PR10110</b>
0-60 psig	<b>P6G-PR90060</b>
0-160 psig	<b>P6G-PR90160</b>

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

