

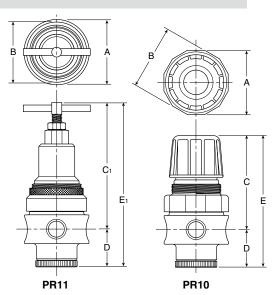
PR10, PR11 Series 1/2 Inch Ports

PR10, PR11 Regulator – Standard



Features

- Stainless steel construction handles most corrosive environments.
- Large diaphragm to valve area ratio for precise regulation and high flow capacity.
- Meets NACE specifications MR-01-75/ISO 15156.
- Low temperature version available.
- High Flow: 1/2" 80 SCFM§



Adjustment Port Series NPT **BSPP** Type Size **PR10** Knob 1/2" PR10G04CSS **PR10-04CSS PR11** T-Handle 1/2" **PR11-04CSS** PR11G04CSS

Standard part numbers shown bold. For other models refer to ordering information below.

PR11

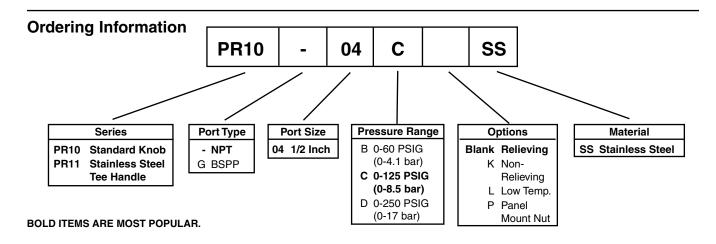
[§] SCFM = Standard cubic feet per minute at 100 PSIG inlet, 75 PSIG no flow secondary setting and 15 PSIG pressure drop.

WARNING Product rupture can cause serious injury. Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

PR10, PR11 Regulator Dimensions				
A	B	C		
2.34	2.43	3.59		
(60)	(62)	(91)		
C 1	D	E		
4.70	1.38	4.97		
(119)	(35)	(126)		
E 1 6.08				

inches (mm) NOTE: 1.75 Dia. (44mm) hole required for panel mounting.



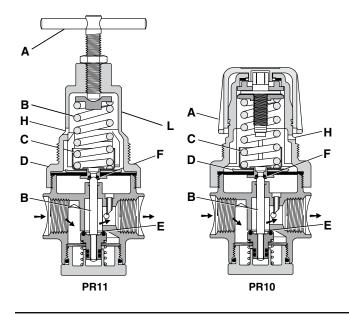
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PR10, PR11 Series Air Line Regulators

Operation



Technical Information

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.

PR10, PR11 Regulator Kits & Accessories

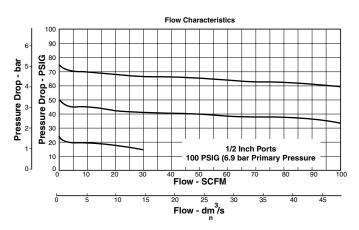
PR10 Bonnet Kit (Knob Included)CKR10YSS	3
PR11 Bonnet KitCKR11YSS	3
Gauge (Stainless) –	
160 PSIG (0 to 1100 kPa), 2" FaceK4520N14160SS	3
Panel Mount Bracket (Stainless) 161X57-SS	3
Panel Mount Nut –	
Stainless R10X51-SS	3
PlasticR10X51-F	2
Pipe Nipple –	
1/2" 316 Stainless Steel616A28-SS	3
Service Kit –	
RelievingRKR10YSS	
Non-RelievingRKR10KYSS	3
Springs –	
0-60 PSIG RangeSPR-388-1-SS	
0-125 PSIG Range	
0-250 PSIG RangeSPR-390-1-SS	5
Specifications	

Gauge Port

Gauge Port	1/4 INCN
Operation	Fluorocarbon Diaphragm
Port Threads	1/2 Inch

With the adjusting knob / T-Handle (A) turned fully counterclockwise (no spring load), and pressure supplied to the regulator inlet port, the valve poppet assembly (B) is closed. Turning the adjusting knob clockwise applies a load to control spring (C). This load causes the diaphragm (D) and the valve poppet assembly (B) to move downward allowing flow across the seat area (E) created between the poppet assembly and the seat. Pressure in the downstream line is sensed below the diaphragm (D) and offsets the load of spring (C). As downstream pressure rises, poppet assembly (B) and diaphragm (D) move upward until the area (E) is closed and the load of the spring (C) and pressure under diaphragm (D) are in balance. A reduced outlet pressure has now been obtained, depending on spring load. Creating a demand downstream, such as opening a valve, results in a reduced pressure under the diaphragm (D). The load of control spring (C) now causes the poppet assembly to move downward opening seat area (E) allowing air to flow to meet the downstream demand. The flow of downstream air is metered by the amount of opening (E).

Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (D) to move upward against control spring (C), open vent hole (F), and vent the excess pressure to atmosphere through the hole in the bonnet (H). (This occurs in the relieving type regulator only.)



Pressure & Temperature Ratings –

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PR10	300 PSIG Max (20.7 bar)			
	0°F to 150°F (-18°C to 66°C)			
PR11				
	0°F to 180°F (-18°C to 82°C)			
Option "L" Minimum Operating Temp	perature [†] 40° C/F			
Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C)				
	C)			
temperatures below 32°F (0°C	:) 1.79 lb. (0.81 kg)			
temperatures below 32°F (0°C Weight	C) 1.79 lb. (0.81 kg) DN			
temperatures below 32°F (0°C Weight Materials of Construction	5) 1.79 lb. (0.81 kg) D N 316 Stainless Steel			

Body		
Bonnet	/ Tee Handle (PR11)	316 Stainless Steel
Bonnet	: / Knob (PR10)	Acetal
Bottom	Plug	316 Stainless Steel
Poppet		316 Stainless Steel
Seals .		Fluorocarbon
[†] Note:	"Low Temperature" option is intended the ambient temperature may be de supply must be free of moisture to malfunction of units. These units co sure any oils in the airstream are co	own to -40° C/F. Air prevent ice formation and intain EPDM seals. Make



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