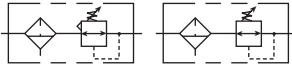


B11, B12 Filter / Regulator – Standard



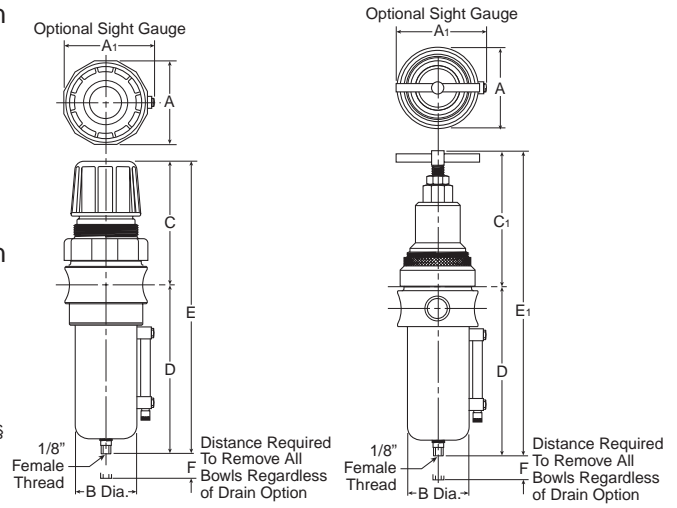
Features

- Stainless Steel Construction Handles Most Corrosive Environments
- Large Diaphragm to Valve Area Ratio for Precise Regulation and High Flow Capacity
- 1/8" Female Threaded Drain
- Meets NACE Specifications MR-01-75/ISO-15156
- Low Temperature Version Available
- High Flow: 1/2" – 72 SCFM[§]



B11

B12



B11

B12

Series	Adjustment Type	Port Size	NPT		BSPP	
			Manual Twist Drain	Automatic Float Drain	Manual Twist Drain	Automatic Float Drain
Metal Bowl with Sight Gauge						
B11	Knob	1/2"	B11-04WJCSS	B11-04WJCRSS	B11G04WJCSS	B11G04WJCRSS
B12	Tee-Handle	1/2"	B12-04WJCSS	B12-04WJCRSS	B12G04WJCSS	B12G04WJCRSS

B11, B12 Piggyback Dimensions		
A 2.34 (60)	A1 2.50 (64)	B 1.75 (44)
C 3.59 (91)	C1 4.70 (119)	D 5.00 (127)
E 8.59 (218)	E1 9.70 (246)	F 2.12 (54)

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

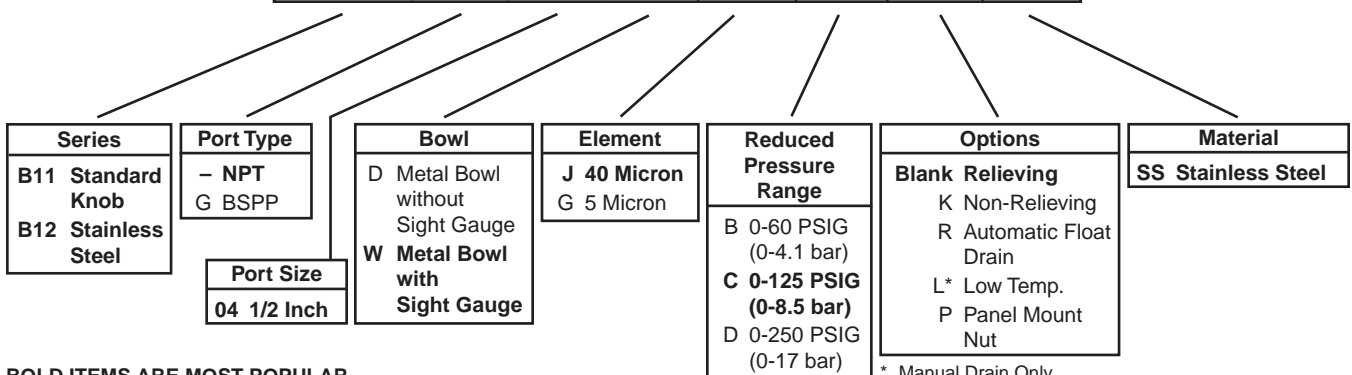
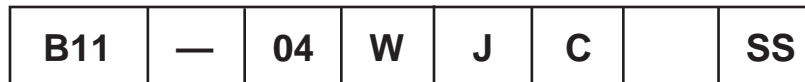
[§] SCFM = Standard cubic feet per minute at 100 PSIG inlet, 90 PSIG no flow secondary setting and 15 PSIG pressure drop.

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

⚠ WARNING

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

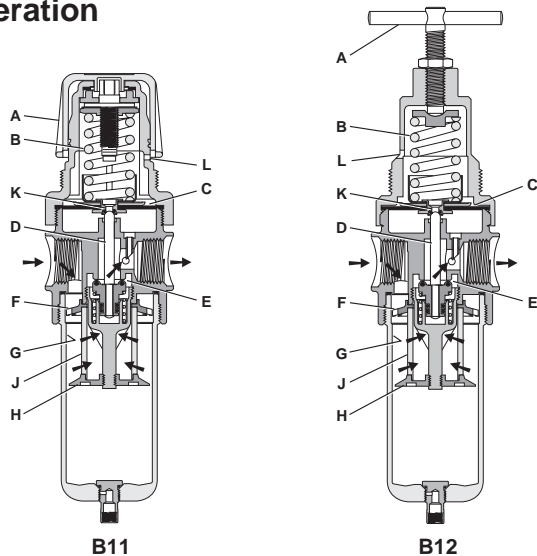
Ordering Information



BOLD ITEMS ARE MOST POPULAR.

* Manual Drain Only.

Operation



Turning the adjusting knob / Tee Handle (A) clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. "First stage filtration". Air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage of filtration "second stage filtration" occurs as air flows through element (J) where smaller particles are filtered out and retained. The air flow now passes through seat area (E) to the outlet port of the unit. Pressure in the downstream line is sensed below the diaphragm (C) and offsets the load of spring (B). When downstream pressure reaches the set-point, poppet valve assembly (D) and diaphragm (C) move upward closing seat area (E). Should downstream pressure exceed the desired regulated pressure, the excess pressure will cause the diaphragm (C) to move upward opening vent hole (K) venting the excess pressure to atmosphere through the hole in the bonnet (L). (This occurs in the standard relieving type filter/regulators only.)

Technical Information

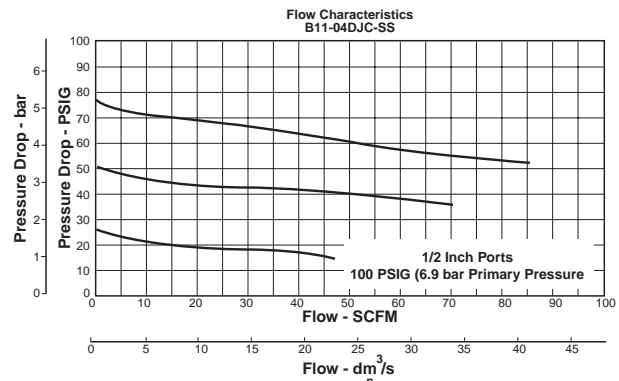
CAUTION:

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.

*Note: "Low Temperature" option is intended for applications where the ambient temperature may be down to -40° C/F. Air supply must be free of moisture to prevent ice formation and malfunction of units. These units contain EPDM seals. Make sure any oils in the airstream are compatible.



B11, B12 Regulator Kits & Accessories

- B11 Bonnet Kit (Knob Included)CKR10YSS
- B12 Bonnet KitCKR11YSS
- Drain Kit –
 - Automatic Float Drain SA10MDSS
 - Manual Twist Drain –
 - Small (Old) SA600Y7-1SS
 - Large (New) SAP05481
- Filter Element Kits –
 - Particulate (40 Micron) EKF10Y
 - Particulate (5 Micron) EKF10VY
- Gauge (Stainless) –
 - 160 PSIG (0 to 1100 kPa), 2" FaceK4520N14160SS
- Panel Mount Bracket (Stainless) R10Y57-SS
- Panel Mount Nut –
 - Stainless R10X51-SS
 - Plastic R10X51-P
- Pipe Nipple –
 - 1/2" 316 Stainless Steel 616A28-SS
- Service Kit –
 - RelievingRKR10YSS
 - Non-Relieving RKR10KYSS
- Springs –
 - 0-60 PSIG RangeSPR-388-1-SS
 - 0-125 PSIG RangeSPR-389-1-SS
 - 0-250 PSIG RangeSPR-390-1-SS

Specifications

- Bowl Capacity 4.0 Ounces
- Filter Rating40 Micron

- Gauge Port1/4 Inch
- Operation Fluorocarbon Diaphragm
- Port Threads1/2 Inch
- Pressure & Temperature Ratings –
 - B11 (Metal Bowl D or W) 300 PSIG Max (20.7 bar)
 - 0°F to 150°F (-18°C to 66°C)
 - B12 (Metal Bowl (D) 0 to 250 PSIG (0 to 17.2 bar)
 - 0°F to 180°F (-18°C to 82°C)
 - B12 (Metal Bowl (W)..... 0 to 250 PSIG (0 to 17.2 bar)
 - 0°F to 150°F (-18°C to 66°C)
 - Automatic Float Drain 15 to 175 PSIG (1 to 12 bar)
 - 32°F to 150°F (0°C to 66°C)
- Option "L" Minimum Operating Temperature-40° C/F

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (0°C).

- Sump Capacity 1.7 Ounce
- Weight2.42 lb. (1.09 kg)

Materials of Construction

- Adjustment Mechanism / Springs316 Stainless Steel
- Body316 Stainless Steel
- Bonnet / Knob (B11) Acetal
- Bonnet / Tee Handle (B12)316 Stainless Steel
- Bottom Plug316 Stainless Steel
- Poppet316 Stainless Steel
- Seals Fluorocarbon
- Sight Gauge Isoplast

