B11, B12 Filter / Regulator - Standard

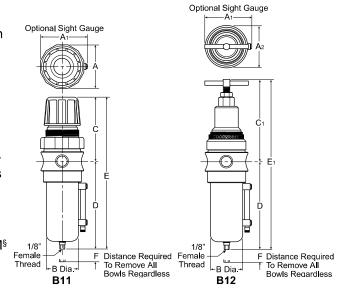




B11

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§



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

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

B12

↑ WARNING

Product rupture can cause serious injury.

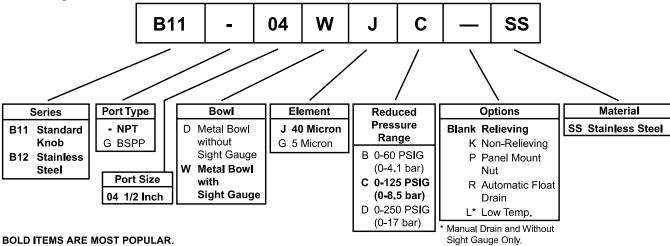
Do not connect regulator to bottled gas.

Do not exceed maximum primary pressure rating.

B11, B12 Filter / Regulator Dimensions							
A	A 1	B					
2.34	2.50	1.75					
(60)	(64)	(44)					
C	C ₁	D					
3.59	4.70	5.00					
(91)	(119)	(127)					
E	E ₁	F					
8.59	9.70	2.12					
(218)	(246)	(54)					

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

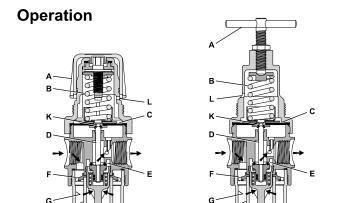
Ordering Information



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

B11, B12 Series

Filter / Regulators



Turning the adjusting knob / T-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:

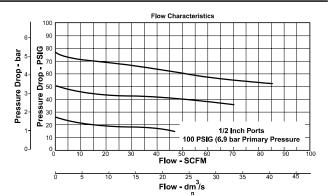
REGULATOR PRESSURE ADJUSTMENT – The working range of knob adjustment is designed to permit outlet pressures within their full range. Pressure adjustment beyond this range is also possible because the knob is not a limiting device. This is a common characteristic of most industrial regulators, and limiting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

B12

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

B11, B12 Regulator Kits & Accessories

BT1, B12 Regulator Kits & Ac	cessories
B11 Bonnet Kit (Knob Included)	CKR10YSS
B12 Bonnet Kit	CKR11YSS
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" Face	K4520N14160SS
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 –	
Relieving	RKR10YSS
Non-Relieving	
Springs –	
0-60 PSIG Range	
0-125 PSIG Range	SPR-389-1-SS
0-250 PSIG Range	
Specifications	
Specifications	400
Bowl Capacity	
Filter Rating	40 Micron



Gauge Port	1/4 I nch					
Operation	Fluorocarbon Diaphragm					
Port Threads						
Pressure & Temperature Ratings						
B11 (Metal Bowl D or W)						
	0°F to 150°F (-18°C to 66°C)					
B12 (Metal Bowl D)						
	0°F to 180°F (-18°C to 82°C)					
B12 (Metal Bowl W)	· · · · · · · · · · · · · · · · · · ·					
	0°F to 150°F (-18°C to 66°C)					
Automatic Float Drain	` ,					
	32°F to 150°F (0°C to 66°C)					
Option "L" Minimum Operating Te	mperature [†] 40° C/F					
Note: Air must be dry enough to avo temperatures below 32°F (0°C)						
Sump Capacity	1.7 Ounce					
Weight						
Materials of Constructi						
Adjustment Mechanism / Springs						
Body						
Bonnet / Knob (B11)						
Bonnet / Tee Handle (B12)	316 Stainless Steel					
Bottom Plug	316 Stainless Steel					
Poppet	316 Stainless Steel					
Seals	Fluorocarbon					
Sight Gauge						

