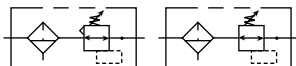




PB548, PB558 Filter / Regulator – Miniature



Features

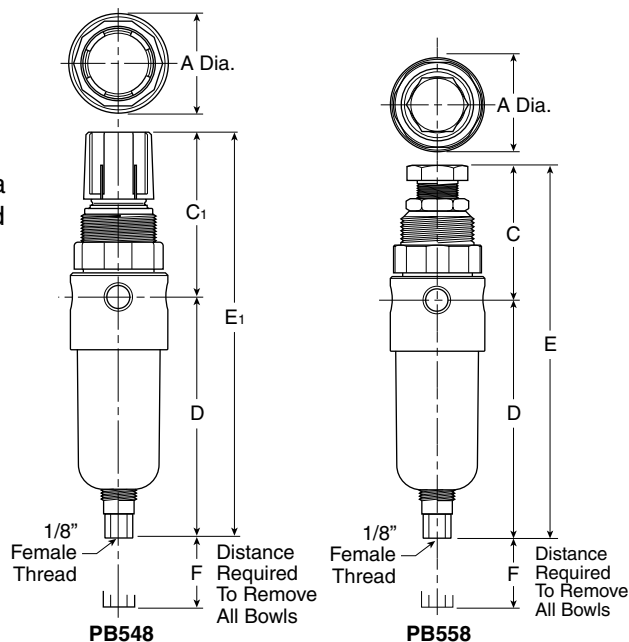
- Stainless steel construction handles most corrosive environments.
- Large diaphragm to valve area ratio for precise regulation and high flow capacity.
- 1/8" female threaded drain.
- Meets NACE specifications MR-01-75/ISO 15156.
- High Flow: 1/4" – 12 SCFM[§]



PB548



PB558



Series	Adjustment Type	Port Size	NPT	BSP
PB548	Knob	1/4"	PB548-02DHCSS	PB548G02DHCSS
PB558	All Metal	1/4"	PB558-02DHCSS	PB558G02DHCSS

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

[§] 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.

PB548, PB558 Filter / Regulator Dimensions		
A 1.56 (40)	C 2.17 (55)	C₁ 2.63 (67)
D 3.63 (92)	E 5.80 (147)	E₁ 6.26 (159)
F 1.58 (40)		

inches (mm)
 NOTE: 1.25 Dia. (32mm) hole required for panel mounting.

Ordering Information

PB548 - 02 D H C SS

Series PB548 Standard Knob PB558 Stainless Steel	Port Type - NPT G BSPP	Bowl D Metal Bowl without Sight Gauge	Element H 20 Micron G 5 Micron	Reduced Pressure Range A 0-25 PSIG (0-1.7 bar) B 0-60 PSIG (0-4.1 bar) C 0-125 PSIG (0-8.5 bar)	Options Blank Relieving K Non-Relieving R Automatic Pulse Drain P Panel Mount Nut	Material SS Stainless Steel
---	-------------------------------------	---	---	--	--	---------------------------------------

Port Size
 02 1/4 Inch

BOLD ITEMS ARE MOST POPULAR.

Parker Dystrybutor:

ARA[®]
PNEUMATIK

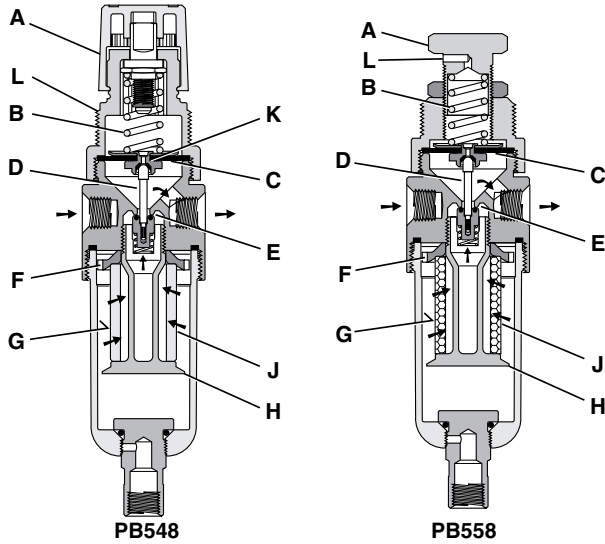
53-012 Wrocław tel. 71 364 72 82
 ul. Wyścigowa 38 fax 71 364 72 83

www.arapneumatik.pl





Operation



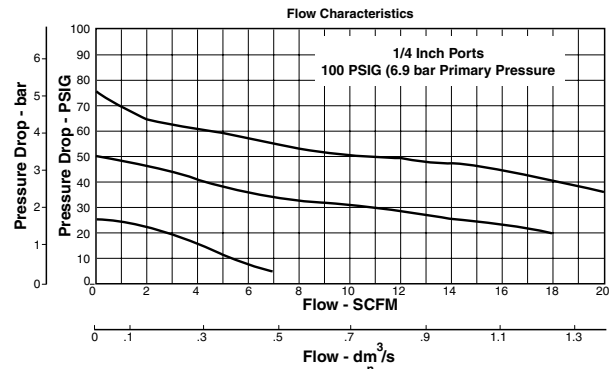
Turning the adjusting knob (A) clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet and the seat. “**First stage filtration**”. Air pressure supplied 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.



PB548, PB558 Regulator Kits & Accessories

- PB558 Bonnet Kit (Knob Included)CKR354YSS
- PB548 Bonnet Kit (Knob Included)CKR364YSS
- Drain Kit –
 - Automatic Pulse Drain RK504SY-SS
 - Manual Twist Drain–
 - Small (Old) SA600Y7-1SS
 - Large (New) SAP05481
- Filter Element Kits –
 - Particulate (5 Micron) EK504VY
 - Particulate (20 Micron) EK504Y
- Gauge (Stainless) –
 - 160 PSIG (0 to 1100 kPa), 1-1/2" FaceK4515N14160SS
- Panel Mount Bracket (Stainless) 161X57-SS
- Panel Mount Nut –
 - Stainless R05X51-SS
 - Plastic R05X51-P
- Pipe Nipple –
 - 1/4" 316 Stainless Steel 616Y28-SS
- Service Kit –
 - Relieving RK549YSS
 - Non-Relieving RK548YSS
- Springs –
 - 0-25 PSIG Range SPR-375-2-SS
 - 0-60 PSIG Range SPR-376-1-SS
 - 0-125 PSIG Range SPR-377-1-SS

- Filter Rating20 Micron
- Gauge Port1/4 Inch
- OperationFluorocarbon Diaphragm
- Port Threads1/4 Inch
- Pressure & Temperature Ratings –
 - PB548.....300 PSIG Max. (20.7 bar)
0°F to 150°F (-18°C to 82°C)
 - PB558.....300 PSIG Max. (20.7 bar)
0°F to 180°F (-18°C to 82°C)
 - Auto Pulse Drain..... 10 to 175 PSIG (0 to 12 bar)
32°F to 150°F (0°C to 66°C)

Note: Air must be dry enough to avoid ice formation at temperatures below 32°F (2°C)

- Sump Capacity0.4 Ounce
- Weight0.6 lb. (0.27 kg)

Materials of Construction

- Adjustment Mechanism / Springs316 Stainless Steel
- Body316 Stainless Steel
- Bonnet (PB548) Acetal
- Bonnet (PB558)316 Stainless Steel
- Bottom Plug316 Stainless Steel
- Knob (PB548) Polypropylene
- Knob (PB558)316 Stainless Steel
- Poppet316 Stainless Steel
- Seals Fluorocarbon

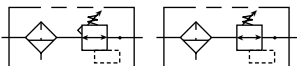
Specifications

- Bowl Capacity 1.0 Ounces





PB11, PB12 Filter / Regulator – Standard



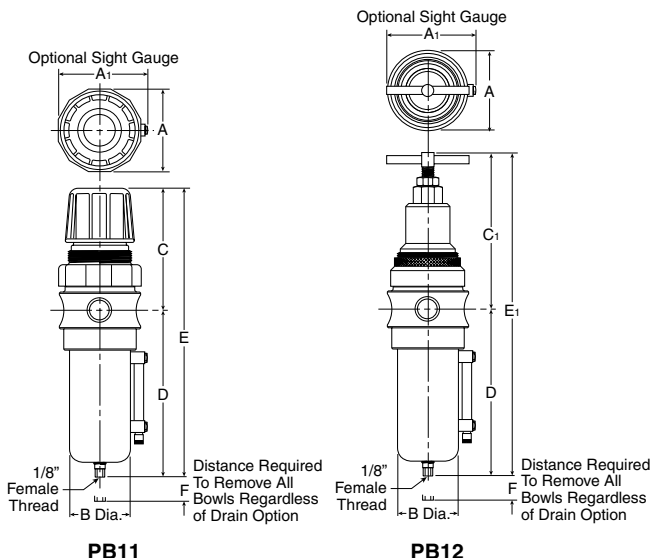
Features

- 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[§]



PB11

PB12



PB11

PB12

Series	Adjustment Type	Port Size	NPT		BSPB	
			Manual Twist Drain	Automatic Float Drain	Manual Twist Drain	Automatic Float Drain
			Metal Bowl with Sight Gauge			
PB11	Knob	1/2"	PB11-04WJCSS	PB11-04WJCRSS	PB11G04WJCSS	PB11G04WJCRSS
PB12	Tee-Handle	1/2"	PB12-04WJCSS	PB12-04WJCRSS	PB12G04WJCSS	PB12G04WJCRSS

PB11, PB12 Filter / Regulator 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.

⚠ WARNING

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

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

Ordering Information

PB11 - 04 W J C - SS

Series PB11 Standard Knob PB12 Stainless Steel	Port Type - NPT G BSPB	Bowl D Metal Bowl without Sight Gauge W Metal Bowl with Sight Gauge	Element J 40 Micron G 5 Micron	Reduced Pressure Range B 0-60 PSIG (0-4.1 bar) C 0-125 PSIG (0-8.5 bar) D 0-250 PSIG (0-17 bar)	Options Blank Relieving K Non-Relieving P Panel Mount Nut R Automatic Float Drain L* Low Temp.	Material SS Stainless Steel
	Port Size 04 1/2 Inch					

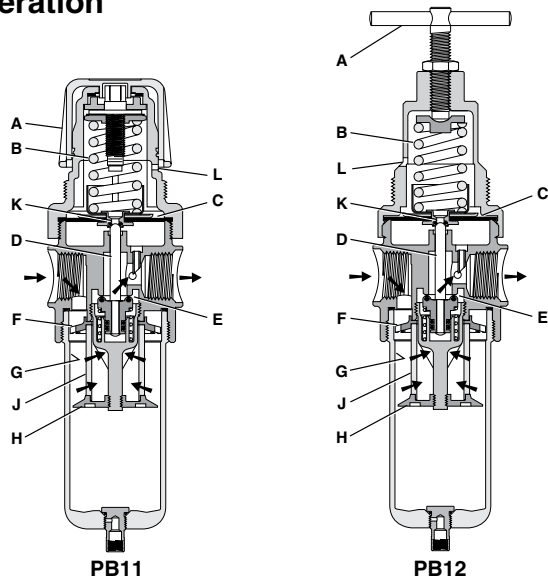
* Manual Drain and Without Sight Gauge Only.

BOLD ITEMS ARE MOST POPULAR.





Operation



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**”.

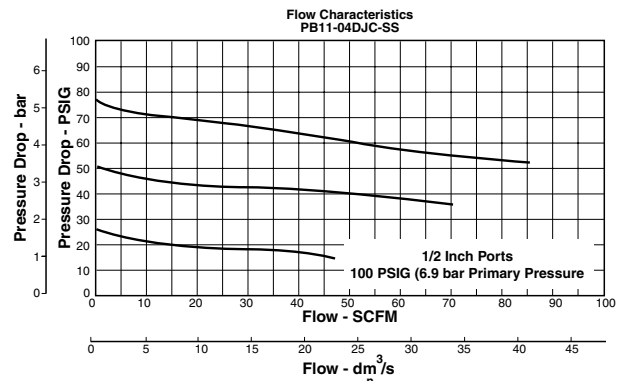
Air pressure supplied to the inlet port is directed through deflector plate (F) causing a swirling centrifugal action forcing liquids and coarse particles to the inner bowl wall (G) and down below the lower baffle (H) to the quiet zone. After liquids and large particles are removed in the first stage 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.

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



PB11, PB12 Regulator Kits & Accessories

PB11 Bonnet Kit (Knob Included)	CKR10YSS
PB12 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	RKR10KYSS
Springs –	
0-60 PSIG Range	SPR-388-1-SS
0-125 PSIG Range	SPR-389-1-SS
0-250 PSIG Range	SPR-390-1-SS
Specifications	
Bowl Capacity	4.0 Ounces
Filter Rating	40 Micron

Gauge Port	1/4 Inch
Operation	Fluorocarbon Diaphragm
Port Threads	1/2 Inch
Pressure & Temperature Ratings –	
PB11 (Metal Bowl D or W)	300 PSIG Max (20.7 bar)
	0°F to 150°F (-18°C to 66°C)
PB12 (Metal Bowl D)	300 PSIG Max (20.7 bar)
	0°F to 180°F (-18°C to 82°C)
PB12 (Metal Bowl W)	300 PSIG Max (20.7 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
Weight	2.42 lb. (1.09 kg)
Materials of Construction	
Adjustment Mechanism / Springs	316 Stainless Steel
Body	316 Stainless Steel
Bonnet / Knob (PB11)	Acetal
Bonnet / Tee Handle (PB12)	316 Stainless Steel
Bottom Plug	316 Stainless Steel
Poppet	316 Stainless Steel
Seals	Fluorocarbon
Sight Gauge	Isoplast

