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climate control
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Stainless Steel FRLs

Air Preparation Units

Catalogue PDE2504TCUK May 2014



ENGINEERING YOUR SUCCESS.

Stainless Steel FRLs



WARNING

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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SALE CONDITIONS

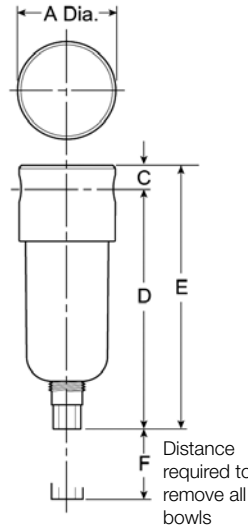
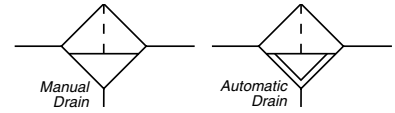
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PF504 Filter – Miniature

Features

- Stainless steel construction handles most corrosive environments
- Fluorocarbon seals standard
- Meets NACE specifications MR-01-75/ISO 15156
- High flow: 1/4" - 10.85 dm³/s[§]
- 1/8" female threaded drain

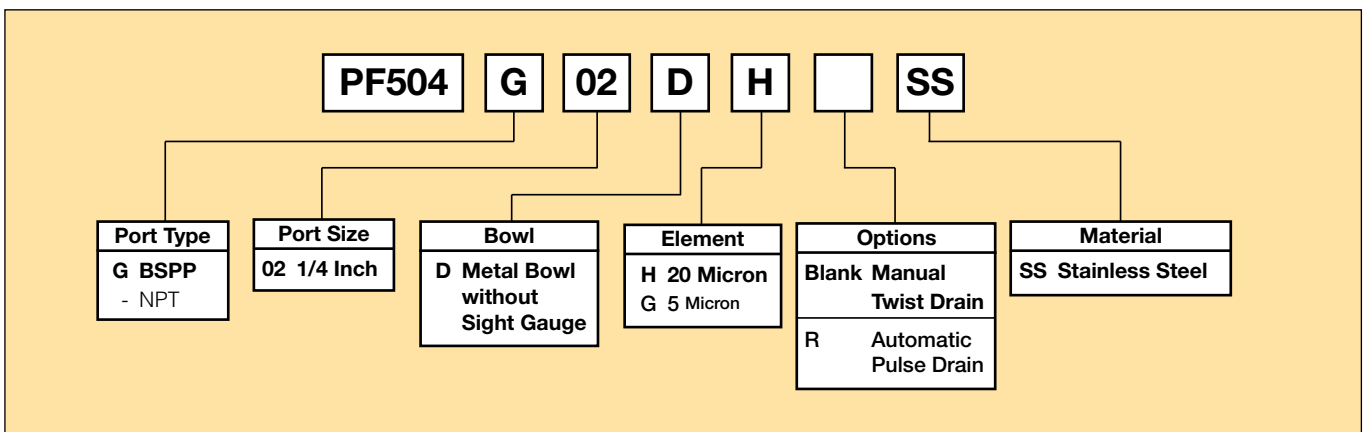


Port Size	BSPP	NPT
	Manual Twist Drain	Manual Twist Drain
1/4"	PF504G02DHSS	PF504-02DHSS

PF504 Filter Dimensions (mm)		
A	C	D
40	8	94
E	F	
102	40	

Standard part numbers shown bold.
 For other models refer to ordering information below.
[§] dm³/s = Flow at 6.2 bar and a 0.3 bar pressure drop.

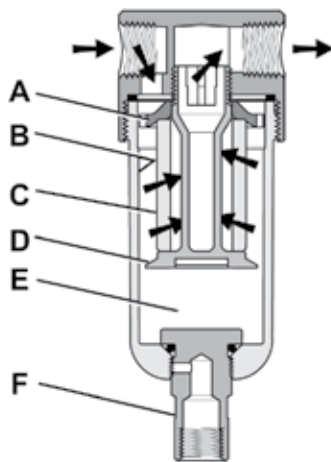
Ordering Information



BOLD ITEMS ARE MOST POPULAR.

Technical Specifications – PF504

Operation



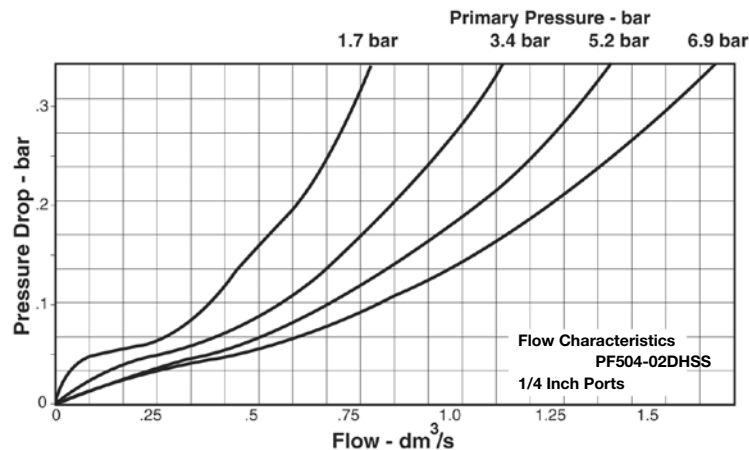
First Stage Filtration:

Air enters at inlet port and flows through deflector plate (A) which causes a swirling action. Liquids and coarse particles are forced to the bowl interior wall (B) by the centrifugal action of the swirling air. They are then carried down the bowl wall by the force of gravity. The baffle (D) separates the lower portion of the bowl into a “quiet zone” (E) where the removed liquid and particles collect, unaffected by the swirling air, and are therefore not reentrained into the flowing air.

Second Stage Filtration:

After liquids and large particles are removed in the first stages of filtration, the air flows through element (C) where smaller particles are filtered out. The filtered air then passes downstream. Collected liquids and particles in the “quiet zone” (E) should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by unscrewing the drain valve (F) slightly until the liquid begins to drain.

Technical Information



PF504 Filter Kits & Accessories

Filter Element Kits –	
Particulate (5 Micron).....	EK504VY
Particulate (20 Micron).....	EK504Y
Drain Kits -	
Automatic Pulse Drain.....	RK504SY-SS
Manual Twist Drain –	
Small (Old)	SA600Y7-1SS
Large (New)	SAP05481
Pipe Nipple –	
1/4" NPT 316 Stainless Steel	616Y28-SS
1/4" BSPT 316 Stainless Steel	AC-2SS

Specifications

Bowl Capacity	29 cm ³
Filter Rating	20 Micron
Sump Capacity	12 cm ³
Port Threads	1/4 Inch

Pressure & Temperature Ratings –

Manual Twist Drain	0 to 20.7 bar
	-18°C to 82°C
Auto Pulse Drain	0 to 12 bar
	0°C to 66°C

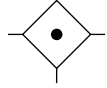
Note: Air must be dry enough to avoid ice formation at temperatures below 2°C.

Weight

Materials of Construction

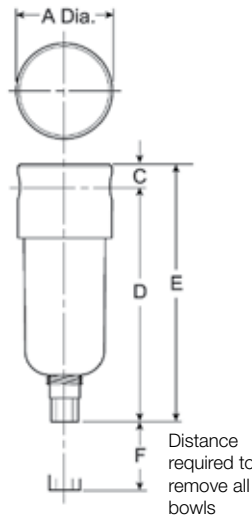
Body	316 Stainless Steel
Bowls	316 Stainless Steel
Deflector	Acetal
Drain	316 Stainless Steel
Element Holder	Acetal
Filter Element	Polyethylene
Seals	Fluorocarbon

PF501 Coalescing Filter – Miniature



Features

- Stainless steel construction handles most corrosive environments
- Meets NACE specifications MR-01-75/ISO 15156
- High flow: 1/4" - 755 dm³/s[§]
- 1/8" female threaded drain



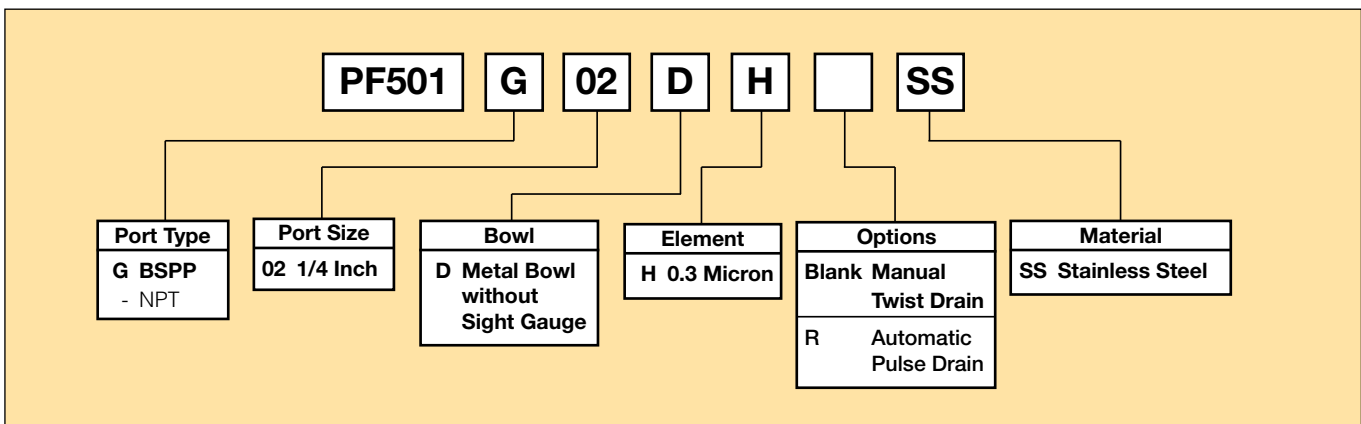
Port Size	BSPP	NPT
	Manual Twist Drain	Manual Twist Drain
1/4"	PF501G02DHSS	PF501-02DHSS

PF501 Coalescing Filter Dimensions (mm)		
A 40	C 8	D 94
E 102	F 40	

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

[§] dm³/s = Flow at 6.2 bar and a 0.3 bar pressure drop.

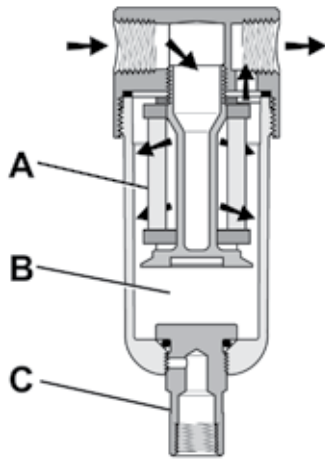
Ordering Information



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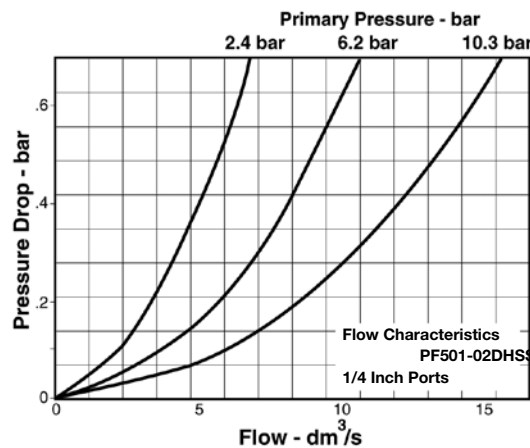
Technical Specifications – PF501

Operation



The contaminated air enters the element interior and is forced through a thick membrane (A) of “borosilicate” glass fibers coated with epoxy. Flow then passes through the element, and at this stage 99.97% of the sub micronic particles have been removed from the air stream. The tiny droplets coalesce together and are collected from the filter element by the outer drain layer. The clean, filtered air now passes through and out into the pneumatic system. The air line coalescing filter removes liquid aerosols and sub-micron particulate matter. Collected liquids and particles in the “quiet zone” (B) should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by unscrewing the drain valve (C) slightly until the liquid begins to drain.

Technical Information



F501 Filter Kits & Accessories

Filter Element Kits –

0.3 MicronEKF501H

Drain Kits -

Automatic Pulse Drain.....RK504SY-SS

Manual Twist Drain –

Small (Old)SA600Y7-1SS

Large (New)SAP05481

Pipe Nipple –

1/4" NPT 316 Stainless Steel..... 616Y28-SS

1/4" BSPT 316 Stainless Steel.....AC-2SS

Specifications

Bowl Capacity 29 cm³

Filter Rating0.3 Micron

Port Threads1/4 Inch

Pressure & Temperature Ratings –

Manual Twist Drain 0 to 20.7 bar
-18°C to 82°C

Auto Pulse Drain..... 0 to 12 bar
0°C to 66°C

Note: Air must be dry enough to avoid ice formation at temperatures below 2°C.

Sump Capacity 12 cm³

Weight 275 g

Materials of Construction

Body 316 Stainless Steel

Bowls 316 Stainless Steel

Drain 316 Stainless Steel

Element Holder Acetal

Filter Element Borosilicate Fiber

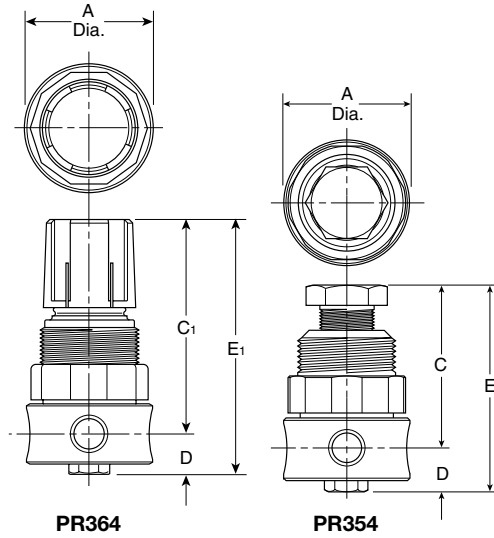
SealsFluorocarbon



PR354, PR364 Regulator – Miniature

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
- High flow: 1/4" – 5.75 dm³/s[§]



PR364



PR354

Series	Adjustment Type	Port Size	BSP	NPT
PR364	Knob	1/4"	PR364G02CSS	PR364-02CSS
PR354	All Metal	1/4"	PR354G02CSS	PR354-02CSS

PR354, PR364 Regulator Dimensions (mm)		
A 40	C 51	C₁ 65
D 13	E 64	E₁ 78

Standard part numbers shown bold.

For other models refer to ordering information below.

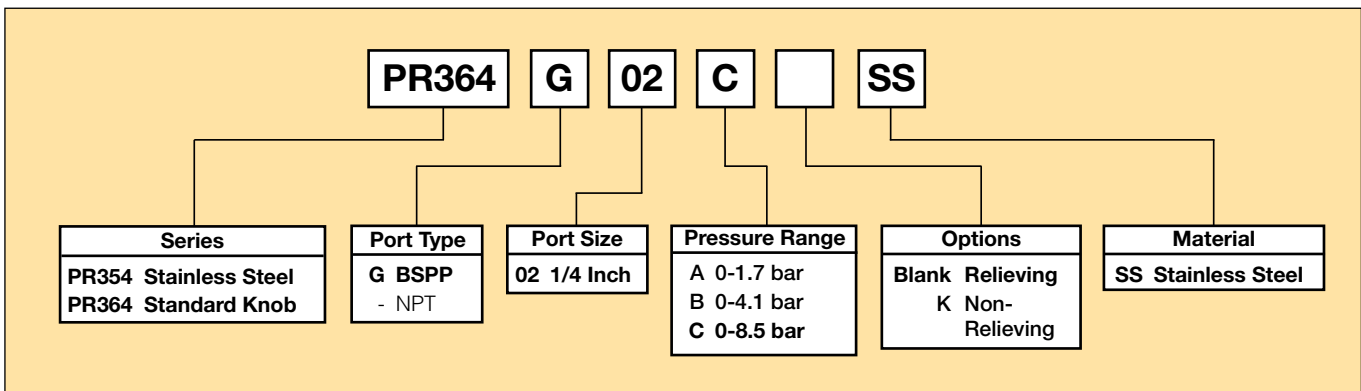
[§] dm³/s = 7 bar inlet pressure with 5.5 bar set pressure and 1 bar pressure drop.

(mm)
NOTE: 32mm dia. hole required for panel mounting.

⚠ WARNING

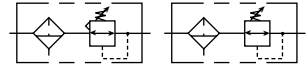
**Product rupture can cause serious injury.
Do not connect regulator to bottled gas.
Do not exceed maximum primary pressure rating.**

Ordering Information



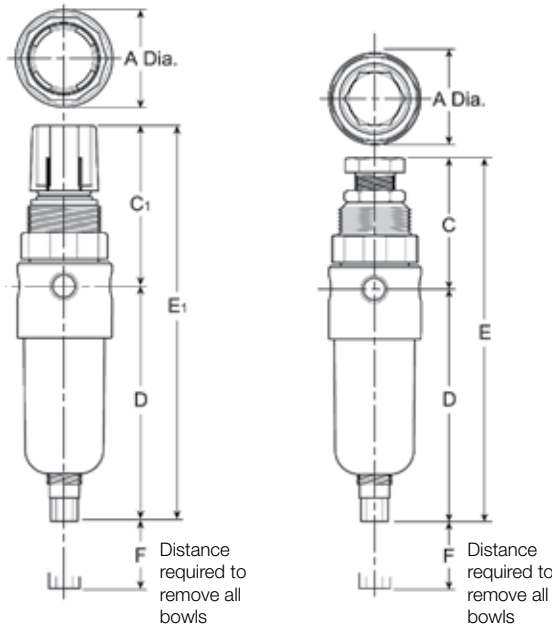
BOLD ITEMS ARE MOST POPULAR.

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
- Meets NACE specifications MR-01-75/ISO 15156.
- High flow: 1/4" – 5.75 dm³/s[§]
- 1/8" female threaded drain



PB548

PB558

Port Size	BSPP	NPT
1/4"	PB548G02DHCSS	PB548-02DHCSS
1/4"	PB558G02DHCSS	PB558-02DHCSS

PB548, PB558 Piggyback Dimensions (mm)		
A 40	C 55	C₁ 67
D 92	E 78	E₁ 147
F 40		

Standard part numbers shown bold.

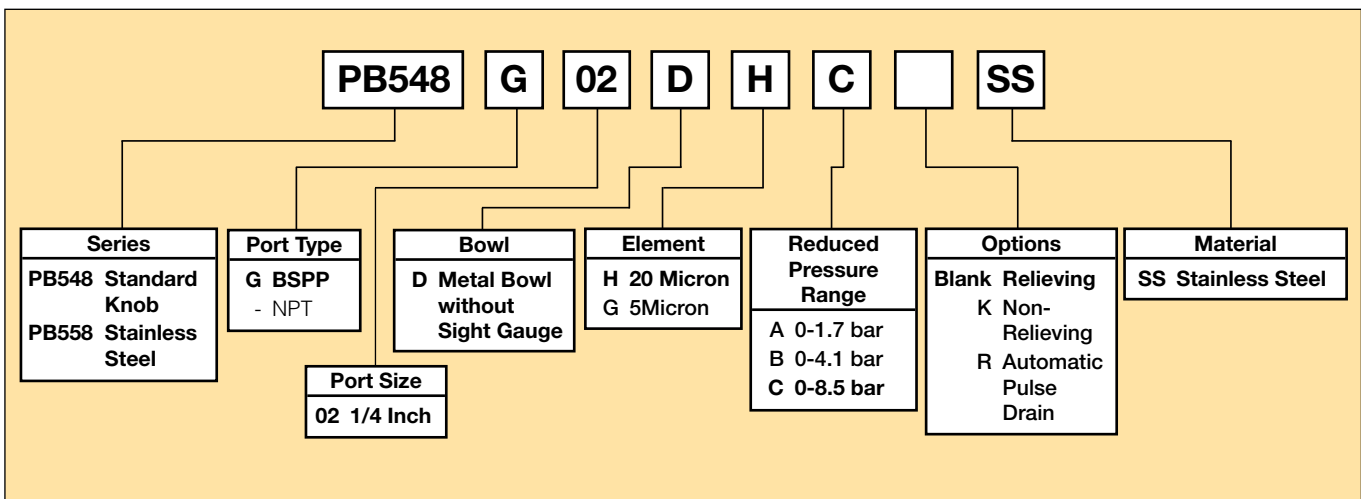
For other models refer to ordering information below.

[§] dm³/s = 7 bar inlet pressure with 5.5 bar set pressure and 1 bar pressure drop.

(mm)
NOTE: 32mm dia. hole required for panel mounting.

⚠ WARNING
<p>Product rupture can cause serious injury. Do not connect regulator to bottled gas. Do not exceed maximum primary pressure rating.</p>

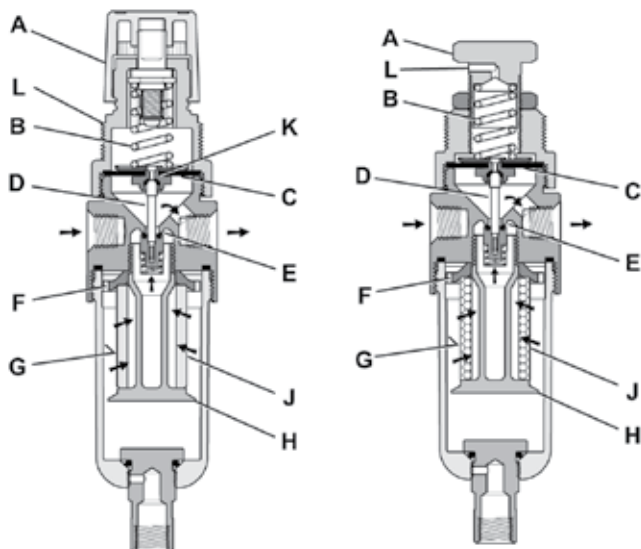
Ordering Information



BOLD ITEMS ARE MOST POPULAR.

Technical Specifications – PB548, PB558

Operation



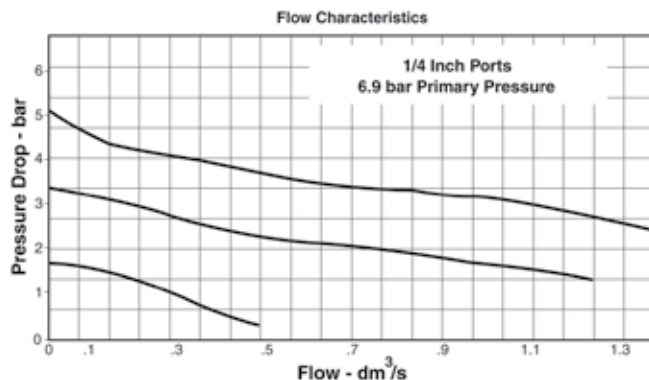
Turning the adjusting knob clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. "First stage filtration". Air pressure supplied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



PB548, B558 Regulator Kits & Accessories

Filter Element Kits –

- Particulate (5 Micron).....EK504VY
- Particulate (20 Micron).....EK504Y

Gauge – 0 - 10 bar

- BSPBM1/4G40S-10
- NPTK4520N14160SS

Drain Kits -

- Automatic Pulse Drain.....RK504SY-SS
- Manual Twist Drain -
- Small (Old).....SA600Y7-1SS
- Large (New).....SAP05481

Panel Mount Bracket (Stainless).....161X57-SS

Panel Mount Nut –

- StainlessR05X51SS
- PlasticR05X51-P

Pipe Nipple –

- 1/4" NPT 316 Stainless Steel..... 616Y28-SS
- 1/4" BSPT 316 Stainless Steel.....AC-2SS

Service Kit –

- RelievingRK549YSS
- Non-Relieving.....RK548YSS

Specifications

- Bowl Capacity 29 cm³
- Filter Rating20 Micron
- Gauge Port 1/4 Inch
- Operation Fluorocarbon Diaphragm
- Port Threads 1/4 Inch
- Pressure & Temperature Ratings –
- PB548.....20.7 bar max.
-18°C to 82°C
- PB558.....20.7 bar max.
-18°C to 82°C
- Auto Pulse Drain.....0 to 12 bar max.
0°C to 66°C

Note: Air must be dry enough to avoid ice formation at temperatures below 2°C.

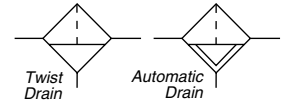
- Sump Capacity 12 cm³
- Weight 270 g

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
- SealsFluorocarbon

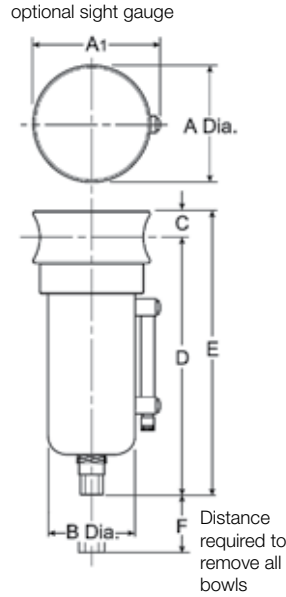


PF10 Filter – Standard



Features

- Stainless steel construction handles most corrosive environments
- Meets NACE specifications MR-01-75/ISO 15156
- High flow: 1/2" - 34 dm³/s[§]
- 1/8" female threaded drain



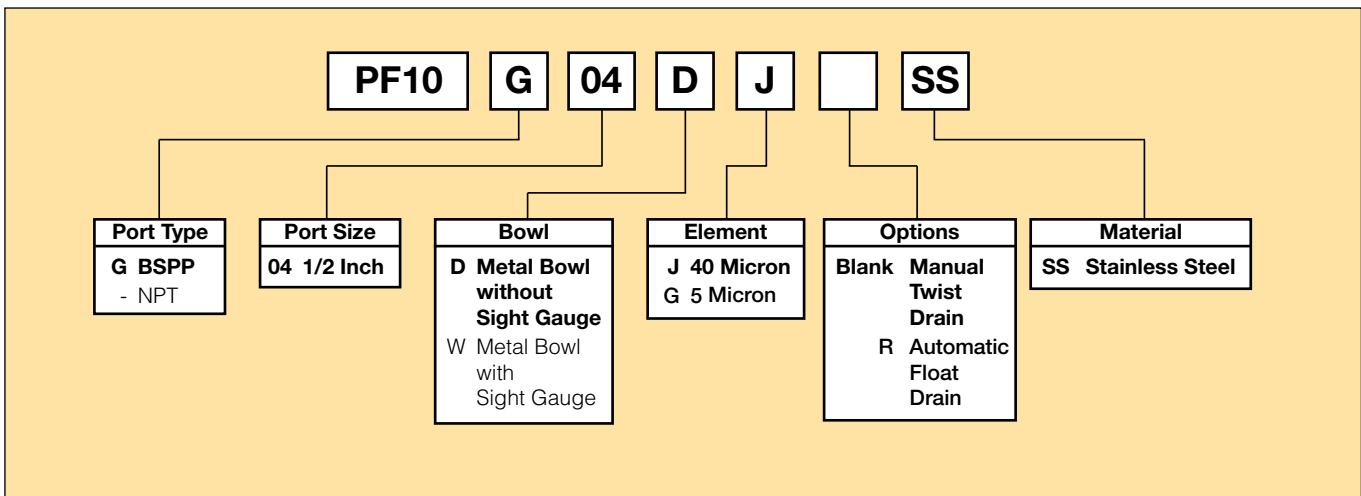
Port Size	BSPP		NPT	
	Manual Twist Drain	Automatic Float Drain	Manual Twist Drain	Automatic Float Drain
1/2"	Metal Bowl Without Sight Gauge			
	PF10G04DJSS	PF10G04DJRSS	PF10-04DJSS	PF10-04DJRSS

PF10 Filter Dimensions (mm)		
A 60	A1 64	B 44
C 14	D 127	E 141
F 54		

Standard part numbers shown bold.
For other models refer to ordering information below.
[§] dm³/s = Flow at 6.2 bar and a 0.3 bar pressure drop.

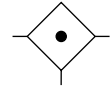
(mm)

Ordering Information



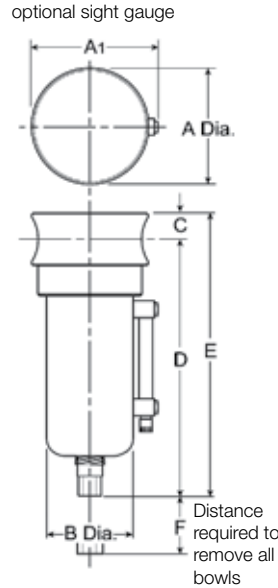
BOLD ITEMS ARE MOST POPULAR.

PF11 Coalescing Filter – Standard



Features

- Stainless steel construction handles most corrosive environments
- Meets NACE specifications MR-01-75/ISO 15156
- High flow: 1/2" - 21 dm³/s[§]
- 1/8" female threaded drain
- High efficiency 0.01µm filtration
- Removes liquid aerosols and sub micron particles



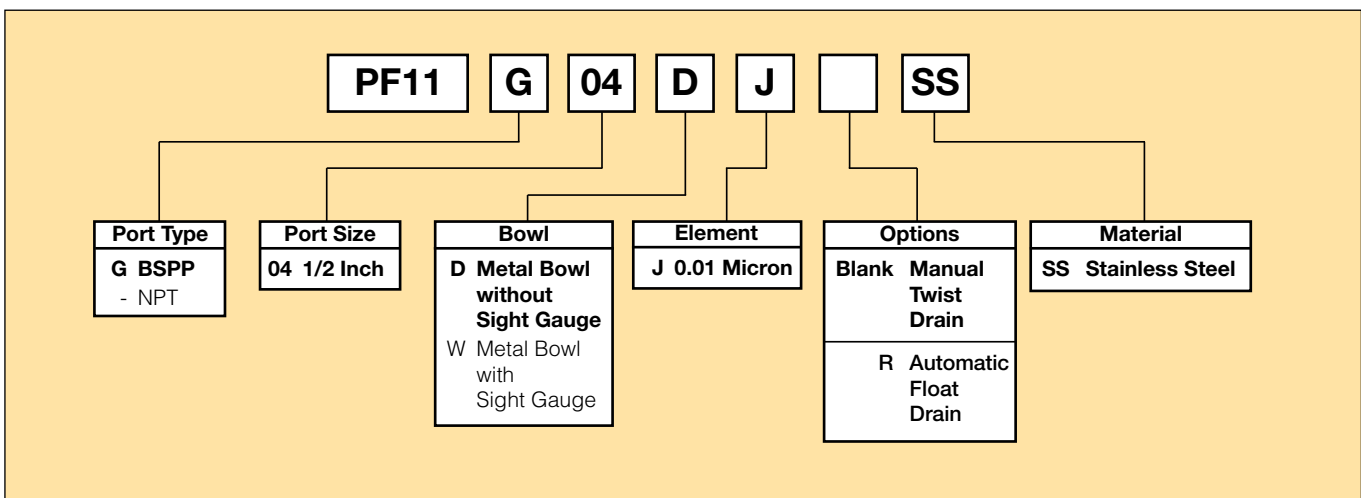
Port Size	BSPP		NPT	
	Manual Twist Drain	Automatic Float Drain	Manual Twist Drain	Automatic Float Drain
1/2"	Metal Bowl Without Sight Gauge			
	PF11G04DJSS	PF11G04DJRSS	PF11-04DJSS	PF11-04DJRSS

F11 Coalescing Filter Dimensions (mm)		
A 60	A1 64	B 44
C 14	D 127	E 141
F 54		

Standard part numbers shown bold.
 For other models refer to ordering information below.
[§] dm³/s = Flow at 6.2 bar and a 0.3 bar pressure drop.

(mm)

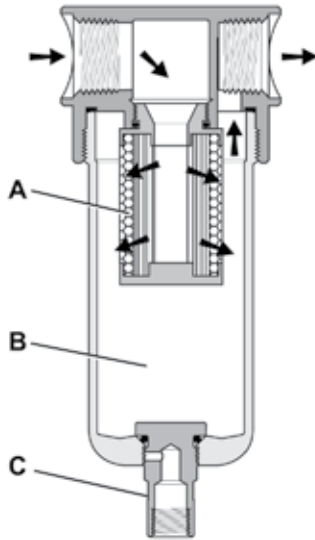
Ordering Information



BOLD ITEMS ARE MOST POPULAR.

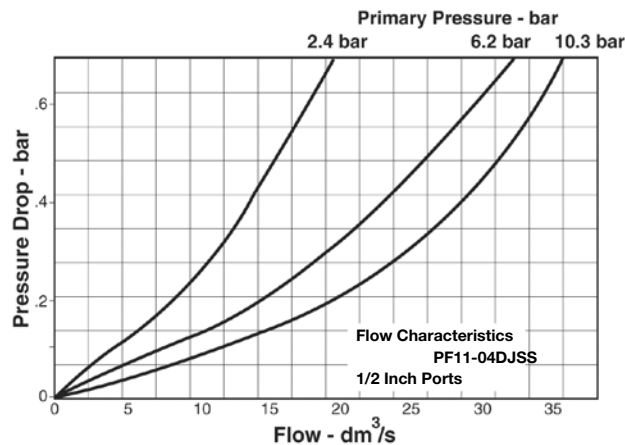
Technical Specifications – PF11

Operation



The contaminated air enters the element interior and is forced through a thick membrane (A) of “borosilicate” glass fibers coated with epoxy. Flow then passes through the element, and at this stage 99.97% of the sub micronic particles have been removed from the air stream. The tiny droplets coalesce together and are collected from the filter element by the outer drain layer. The clean, filtered air now passes through and out into the pneumatic system. The air line coalescing filter removes liquid aerosols and sub-micron particulate matter. Collected liquids and particles in the “quiet zone” (B) should be drained before their level reaches a height where they would be reentrained in the flowing air. This can be accomplished by unscrewing the drain valve (C) slightly until the liquid begins to drain.

Technical Information



F11 Filter Kits & Accessories

Drain Kit –

Automatic Float Drain	SA10MDSS
Manual Twist Drain–	
Small (Old)	SA600Y7-1SS
Large (New)	SAP05481

Filter Element Kits –

0.01 Micron	EKF71
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Pipe Nipple –

1/2" NPT 316 Stainless Steel.....	616A28-SS
1/2" BSPT 316 Stainless Steel.....	AC-4SS

Pressure & Temperature Ratings –

Manual Twist Drain	0 to 20.7 bar
	-18°C to 82°C
Manual Twist Drain (W)	0 to 17.2 bar
	-18°C to 66°C
Automatic Float Drain	0 to 12 bar
	0°C to 66°C

Note: Air must be dry enough to avoid ice formation at temperatures below 2°C.

Weight

	850 g
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Specifications

Bowl Capacity	118 cm ³
Filter Rating	0.01 Micron
Sump Capacity	50 cm ³
Port Threads	1/2 Inch

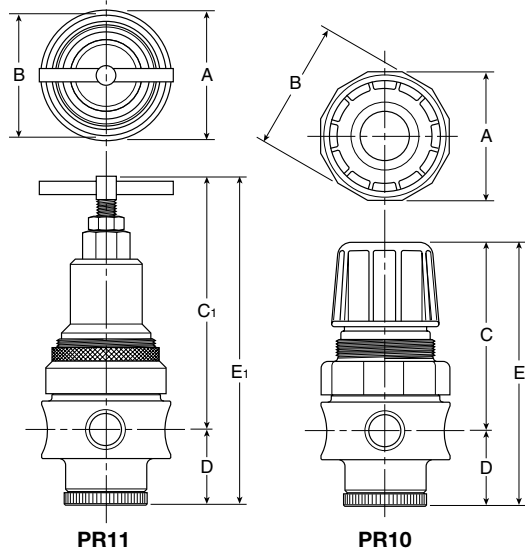
Materials of Construction

Body	316 Stainless Steel
Bowls	316 Stainless Steel
Drain	316 Stainless Steel
Element Holder	Acetal
Filter Element	Borosilicate Fiber
Seals	Fluorocarbon
Sight Gauge	Isoplast

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" – 37.75 dm³/s[§]



Port Size	BSPP	NPT
1/2"	PR10G04CSS	PR10-04CSS
1/2"	PR11G04CSS	PR11-04CSS

PR10, PR11 Regulator Dimensions (mm)		
A	B	C
60	62	91
C₁	D	E
119	35	126
E₁		
154		

Standard part numbers shown bold.

For other models refer to ordering information below.

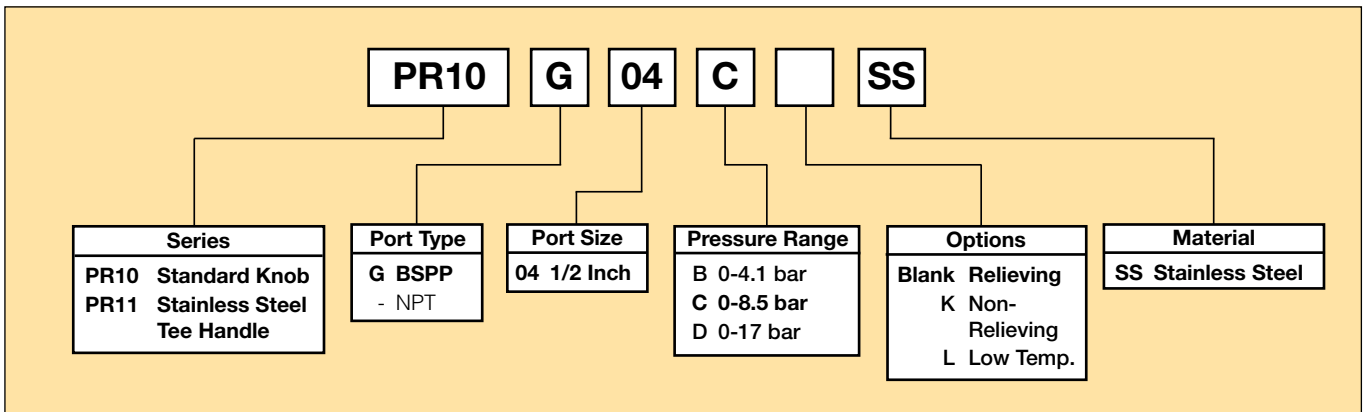
[§] dm³/s = 7 bar inlet pressure with 5.5 bar set pressure and 1 bar pressure drop.

⚠ WARNING

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

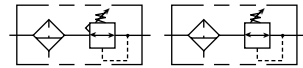
(mm)
NOTE: 44mm dia. hole required for panel mounting.

Ordering Information



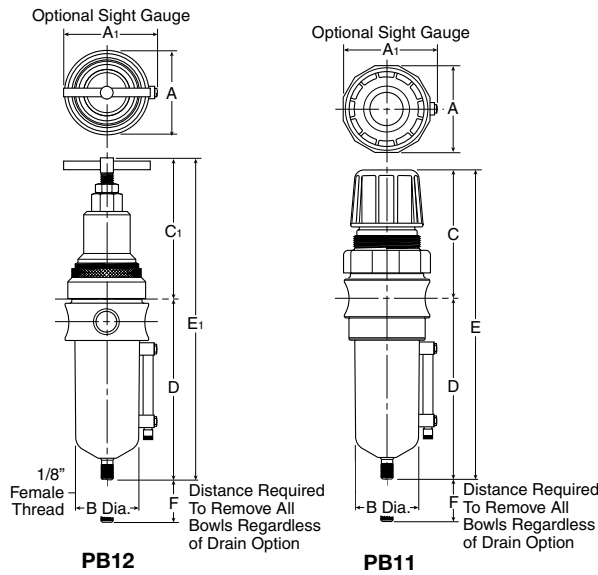
BOLD ITEMS ARE MOST POPULAR.

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
- Meets NACE specifications MR-01-75/ISO-15156
- Low temperature version available
- High flow: 1/2" – 34 dm³/s[§]
- 1/8" female threaded drain



Port Size	Adjustment Type	BSPP		NPT	
		Manual Twist Drain	Automatic Float Drain	Manual Twist Drain	Automatic Float Drain
1/2"	Metal Bowl without Sight Gauge				
	Knob	PB11G04DJCSS	PB11G04DJCRSS	PB11-04DJCSS	PB11-04DJCRSS
	Tee-Handle	PB12G04DJCSS	PB12G04DJCRSS	PB12-04DJCSS	PB12-04DJCRSS

PB11, PB12 Piggyback Dimensions (mm)		
A	A1	B
60	64	44
C	C1	D
91	119	127
E	E1	F
218	246	54

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

[§] dm³/s = 7 bar inlet pressure with 5.5 bar set pressure and 1 bar pressure drop.

(mm)
NOTE: 44mm dia. 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

PB11 G 04 D J C SS

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

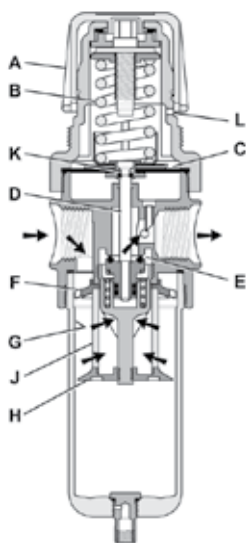
* Manual drain without sight gauge only

BOLD ITEMS ARE MOST POPULAR.



Technical Specifications – PB11, PB12

Operation



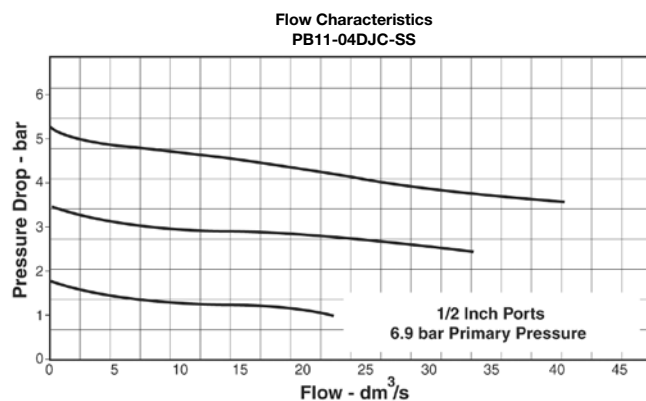
Turning the adjusting knob clockwise applies a load to control spring (B) which forces diaphragm (C) and valve poppet assembly (D) to move downward allowing filtered air to flow through the seat area (E) created between the poppet assembly and the seat. “First stage filtration”. Air pressure supplied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

- Drain Kits -**
- 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 – 0 - 10 bar**
- BSPBM1/4G40S-10
- NPTK4520N14160SS
- Panel Mount Bracket (Stainless).....R10Y57-SS**
- Panel Mount Nut –**
- StainlessR10X51SS
- PlasticR10X51-P
- Pipe Nipple –**
- 1/2" NPT 316 Stainless Steel.....616A28-SS
- 1/2" BSPT 316 Stainless Steel.....AC-4SS
- Service Kit –**
- RelievingRKR10YSS
- Non-Relieving.....RKR10KYSS

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

Specifications

- Bowl Capacity** 118 cm³
 - 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).....20.7 bar -18°C to 66°C
 - PB12 (Metal bowl D).....20.7 bar -18°C to 82°C
 - PB12 (Metal bowl W).....20.7 bar -18°C to 66°C
 - Automatic float drain.....1 to 12 bar 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 2°C.
- Sump Capacity** 50 cm³
 - Weight** 1090 g

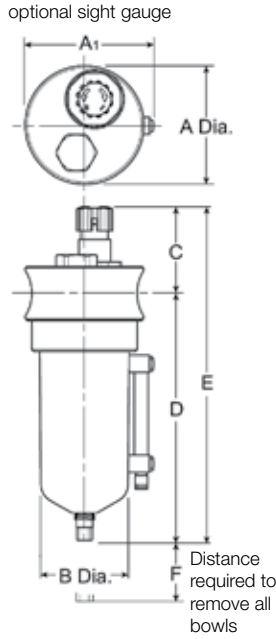
* **Note:** “Low Temperature” option is intended for applications where the ambient temperature may be down to -40° C/F. Air supply must be free of moisture to prevent ice formation and malfunction of units. These units contain EPDM seals. Make sure any oils in the airstream are compatible.



PL10 Lubricator – Standard

Features

- Stainless steel construction handles most corrosive environments
- Fillable under pressure
- Meets NACE specifications MR-01-75/ISO 15156
- High flow: 1/2" - 47 dm³/s[§]
- 1/8" female threaded drain

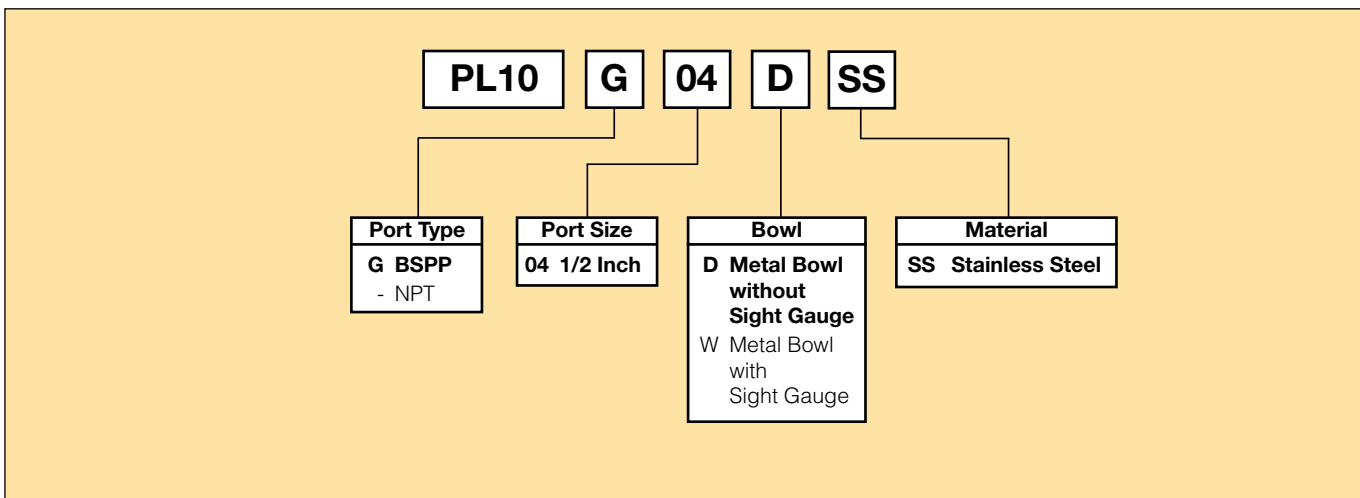


Port Size	BSPP	NPT
	Manual Twist Drain	Manual Twist Drain
1/2"	Metal Bowl Without Sight Gauge	
	PL10G04DSS	PL10-04DSS

PL10 Lubricator Dimensions (mm)		
A 60	A1 64	B 44
C 46	D 127	E 173
F 89		

Standard part numbers shown bold.
 For other models refer to ordering information below.
[§] dm³/s = Flow at 6.2 bar and a 0.3 bar pressure drop.

Ordering Information



BOLD ITEMS ARE MOST POPULAR.

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