

Features

- Heavy duty all 316 stainless steel
- Large flow paths
- High stability
- Mounting options
- Thread milled ports
- Elastomer seals
- Modular design
- rugged and corrosion resistant
- high flow from 0.5 bar dp
- precision adjustment
- panel, pillar, bracket
- leak tight joints
- tight shut off
- in line maintenance

Working temperatures

ASH : -50°C to +40°C SH : -20°C to +180°C

Operating fluids

air, natural gas, inert gases and sweet & sour gases

Flow capacity

10 bar inlet pressure, 6 bar secondary pressure with 1 bar pressure drop using X4 (40 - 50 micron element)

1/4"	- 62.2 SCFM	C.v. 1.7
1/2"	- 162.8 SCFM	C.v. 1.9
1"	- 513.76 SCFM	C.v. 14.2

Ports

service ports - 1/4", 3/8", 1/2", 3/4" & 1" NPT (BSPP options)
gauge ports - 1/8" NPT standard (1/4" NPT and BSPP options)

Gauges

dry - 50mm, 63mm with psi, bar or dual psi/bar dial
glycerine filled - 50mm, 63mm with psi, bar or dual psi/bar dial polycarbonate window and blow-out device

Relief Port

- Threaded 1/8" NPT vent with removable plastic ingress protection
- For gas service, plastic ingress protection can be removed to enable vented gas to be piped away
- Typical bleed flow at 2 bar secondary pressure 1.5cm³/sec
- Relief differential 0.15 bar at 2 bar secondary pressure (relieving type only)

Seal repair kits

- Please add the prefix SRK on the models required leaving off port sizes (only require model number up to element reference) e.g. SRKSH-FR-SR-MD-10-X3

Preferred Range:-

						
SH06-FR-SR-MD-06-X3	SH06-FR-SR-MD-10-X3	SH12-FR-SR-MD-06-X3	SH12-FR-SR-MD-10-X3	SH06-FR-SR-AD-10-X3	SH12-FR-SR-AD-10-X3	SH25-FR-SR-MD-10-X3
1/4" NPT, self relieving, manual drain, 6 bar, 20-30 micron filter element, C.v. 1.7	1/4" NPT, self relieving, manual drain, 10 bar, 20-30 micron filter element, C.v. 1.7	1/2" NPT, self relieving, manual drain, 6 bar, 20-30 micron filter element, C.v. 1.9	1/2" NPT, self relieving, manual drain, 10 bar, 20-30 micron filter element, C.v. 1.9	1/4" NPT, self relieving, auto drain, 10 bar, 20-30 micron filter element, C.v. 1.7	1/2" NPT, self relieving, auto drain, 10 bar, 20-30 micron filter element, C.v. 1.9	1" NPT, self relieving, manual drain, 10 bar, 20-30 micron filter element, C.v. 14.2

Reliability and Innovation in directional control valves

Filter unit

10 micron, 20 - 30 micron (standard)
40 - 50 micron

Bowl retention capacity

25cc (manual drain), 50cc (auto drain)

Maximum inlet pressure

16 bar - auto drain only
20, 40 bar - manual drain only

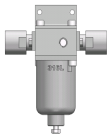
Regulated pressures

- 0.03 to 2 bar 0.4 - 29 psi
- 0.03 to 4 bar 0.4 - 58 psi
- 0.20 to 6 bar 2.9 - 87 psi
- 0.25 to 8 bar 3.6 - 116 psi
- 0.40 to 10 bar 5.8 - 145 psi

Certification

Ingress protection designed to meet heavy seas and deck rating

Reliability and Innovation in directional control valves

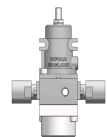


SH06-F1-MD-X3

1/4" NPT, filter, manual drain, 20-30 micron filter element, C.v. 1.7

SH12-F1-MD-X3

1/2" NPT, filter, manual drain, 20-30 micron filter element, C.v. 1.9



SH06-R1-SR-10

1/4" NPT, regulator, self relieving, 10 bar, C.v. 1.7

SH12-R1-SR-10

1/2" NPT, regulator, self relieving, 10 bar, C.v. 1.9

Mechanical Construction

- Body - stainless steel AISI 316L
- Bonnet & bowl - stainless steel AISI 316L
- Element - sintered 316 stainless steel
- Springs - 302S26 stainless steel to BS 2056 (or Inconel)
- Regulating spring - inconel X750 AMS5699
- Ports - 1/4", 3/8" & 1/2" thread milled NPT (BSPP and other options available)
- Seals - viton as standard
- Fasteners - 18/10 stainless steel
- Adjustment mechanism - M8 socket set screw
- Mounting mechanism - Panel, pillar or bracket
- Diaphragm - Silicon

SH Series Selection Chart

SH S40H ASH	Standard service 40 bar inlet Arctic service		Model Code												
06 09 12 19L 19 25	1/4" NPT 3/8" NPT 1/2" NPT 3/4" NPT (low flow - see SH 25 selection chart for high flow version) 3/4" NPT 3/4" NPT		Port Sizes												
	R1 F1 FR	Regulator Filter Filter Regulator	Model Type												
	SR NR	Self Relieving Non Relieving	(N/A to Filter Units)												
	MD AD	Manual Drain Auto Drain	(N/A to Regulators)												
		<table><tr><th>Nominal</th><th>Actual</th></tr><tr><td>02 bar</td><td>0.03 - 2 bar</td></tr><tr><td>04 bar</td><td>0.03 - 4 bar</td></tr><tr><td>06 bar</td><td>0.2 - 6 bar</td></tr><tr><td>08 bar</td><td>0.25 - 8 bar</td></tr><tr><td>10 bar</td><td>0.4 - 10 bar</td></tr></table>	Nominal	Actual	02 bar	0.03 - 2 bar	04 bar	0.03 - 4 bar	06 bar	0.2 - 6 bar	08 bar	0.25 - 8 bar	10 bar	0.4 - 10 bar	Output Pressure Ranges
Nominal	Actual														
02 bar	0.03 - 2 bar														
04 bar	0.03 - 4 bar														
06 bar	0.2 - 6 bar														
08 bar	0.25 - 8 bar														
10 bar	0.4 - 10 bar														
		X1 5 - 10 micron element X3 20 - 30 micron element (standard) X4 40 - 50 micron element	Filter Element												
SH 06 - FR - SR - MD - 10 - X3			Ordering Example												

Gauges

- X5 - 10bar 50mm diameter gauge with 316 SS case
 - X5 - 16bar 50mm diameter gauge with 316 SS case
 - X5 - 160psi 50mm diameter gauge with 316 SS case
 - X8 - 10 bar 50mm glycerine filled gauge with 316 SS case
- Other scale plates available

Mounting Options

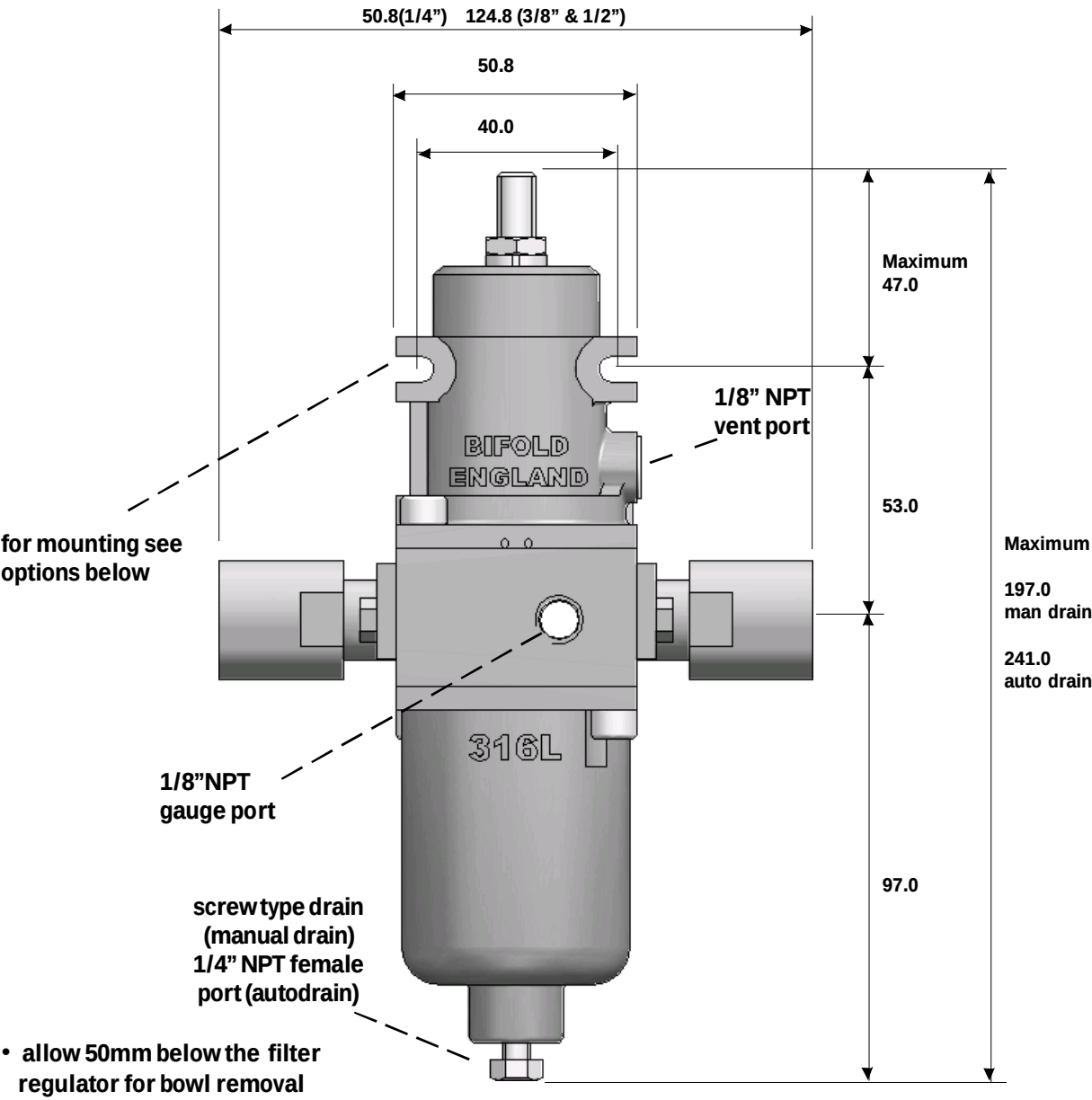
- L8 Panel mount kit
- L9 Pillar mount kit
- L46 Panel mount and bracket kit

Additional Options

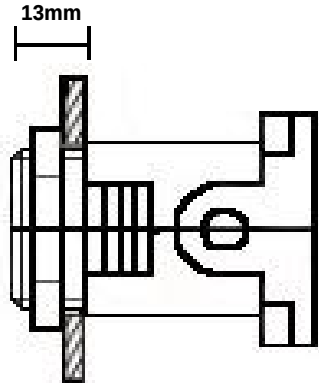
- L11 Tamperproof adjustment cap
- L15 Viton / stainless steel bug vent
- K10 Plastic hand wheel adjuster

Filter Regulator

Reliability and Innovation in directional control valves



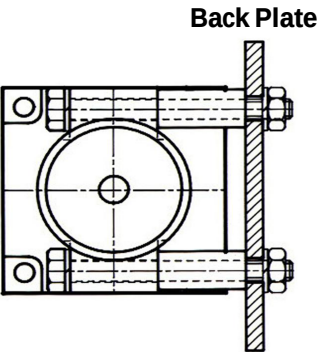
Panel Mount Kit (L8)



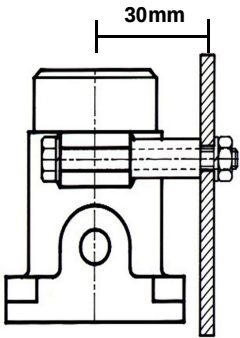
Top cap is threaded and supplied with a panel mount ring

Pillar Kit (L9)

minimum
spacer size
20mm



PLAN VIEW



SIDE VIEW