

Reliability and innovation in directional control valves

# Air Preparation Units Model SH Series

Filters, Regulators and Filter Regulators





#### **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

- in line maintenance

- tight shut off

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#### Filter unit

10 micron, 20 - 30 micron (standard)

40 - 50 micron

#### Bowl retention capacity

Ingress protection designed to meet heavy seas

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

# 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)

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

#### 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 bar5.8 - 145 psi

Certification

and deck rating

## 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

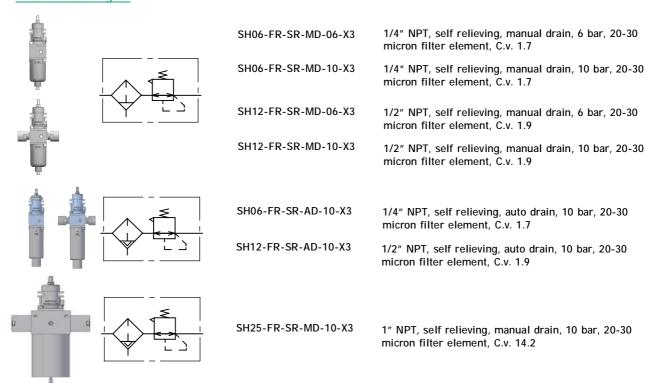
#### Relief Port

- 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 1.5cm<sup>3</sup>/sec
- · Relief differential 0.15 bar at 2 bar secondary pressure (relieving type only)

#### Seal repair kits

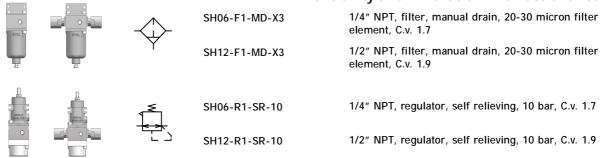
· Please add the prefix SRK on the models required leaving off port sizes (only require model number up to element reference) e.g. SRKSH-FR-SR-MD-10-X3

#### Preferred Range:-





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# **Mechanical Construction**

Body

· Bonnet & bowl

Element

Springs

Regulating spring

PortsSeals

Fasteners

• Adjustment mechanism

Mounting mechanism

· Diaphragm

- stainless steel AISI 316L

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- sintered 316 stainless steel

- 302S26 stainless steel to BS 2056 (or Inconel)

- inconel X750 AMS5699

- 1/4", 3/8" & 1/2" thread milled NPT (BSPP and other options available)

- viton as standard

- 18/10 stainless steel

- M8 socket set screw

- Panel, pillar or bracket

- Silicon

# SH Series Selection Chart

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

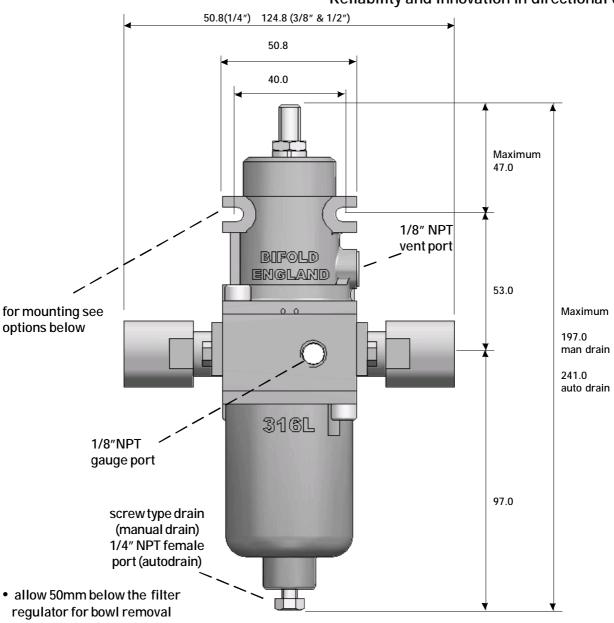
Gauges			Mounting Options		Additional Options	
X5 - 10bar	50mm diameter gauge with 316 SS case	L8	Panel mount kit	L11	Tamperproof adjustment cap	
X5 - 16bar	50mm diameter gauge with 316 SS case	L9	Pillar mount kit	L15	Viton / stainless steel bug vent	
X5 - 160psi	50mm diameter gauge with 316 SS case	L46	Panel mount and	K10	Plastic hand wheel adjuster	
X8 - 10 bar	50mm glycerine filled gauge with 316 SS case		bracket kit		•	

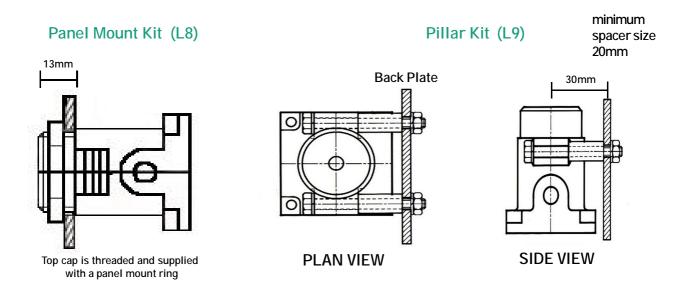
Other scale plates available



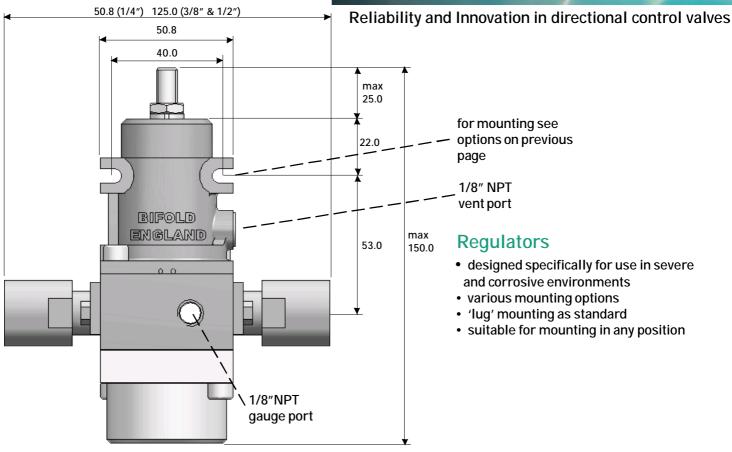
# Filter Regulator

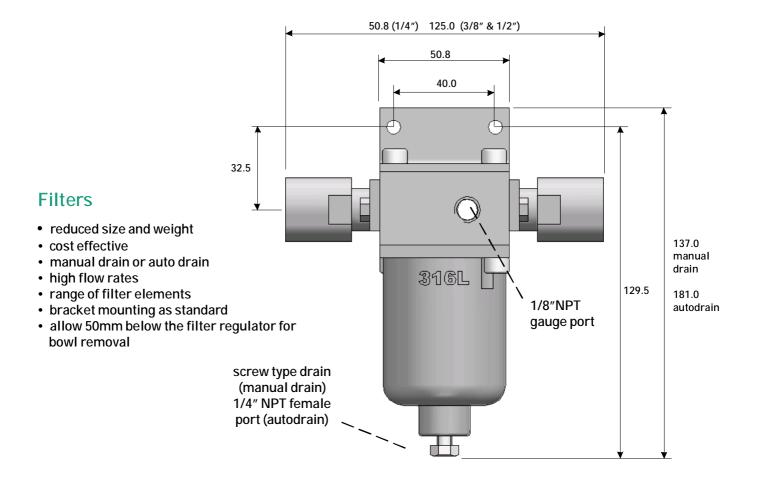
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All Bifold Fluidpower products are manufactured to a most stringent QA programme. Every care is taken at all stages of manufacture to ensure that every product will give optimum performance and reliability. We are recognised to EN ISO 9001:2000. Functional test certificate, letter of conformity and copies of original mill certificates, providing total traceability are available on request, to BSEN 10204 3.1.B where available. The manufacturer reserves the right to make changes to the specifications and design etc., without prior notice

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