

Air Preparation Units Models SH & SC

(Up to and including 145 psi / 10 bar operating pressure)



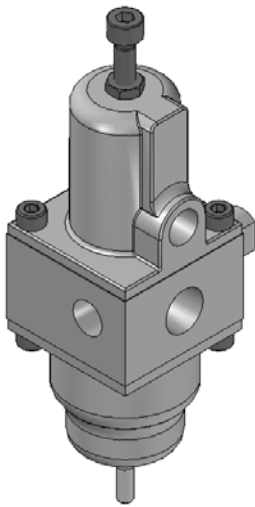
Superior Performance Throughout the Full Operational Range

- Compact Design
- High stability
- Up to 145 psi / 10 bar Working Pressure
- Arctic Service Options to -60°C
- Valve Body 316L Stainless Steel
- NACE MR-01-75 Internal Wetted and Body Materials (Option)
- High Flow - up to 11.2 Cv



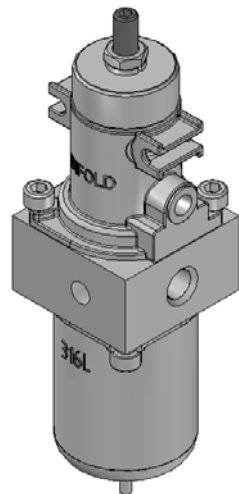
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Features & Benefits



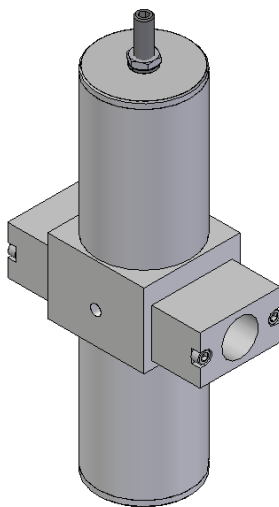
Standard Valve Equipment Design & Build

- Manufactured from 316L grade stainless steel as standard. The valves are suited for offshore and other corrosive atmospheres. Materials can be supplied compliant to NACE MR-01-75 rendering the valves suitable for sour gas media. Low temperature elastomer seals are available for low temperature arctic service applications.
- High stability precision adjustment.
- Modular design for inline maintenance.



Compact Air Preparation Unit

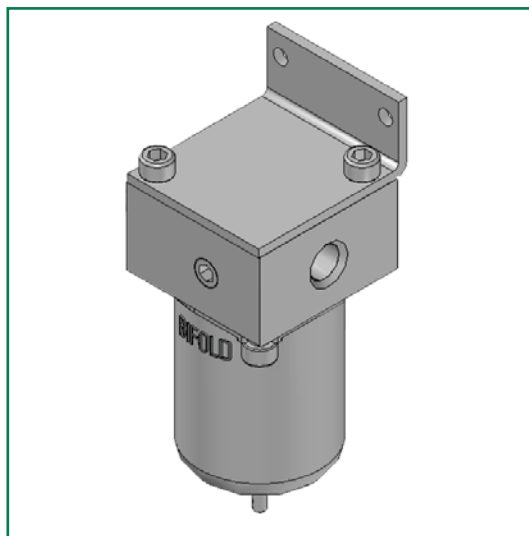
- Our compact SC unit is designed for applications that require high capacity and accurate process control in a small package. A poppet valve which is balanced by utilizing a convoluted diaphragm, insures a constant output pressure even during wide supply pressure variations. Stability of regulated pressure is maintained under varying flow conditions adjusting the air supply in accordance with the flow velocity.



Air Preparation Unit High Flow

- Our compact SH unit designed for applications that require high flow capacity and accurate process control. A poppet valve which is balanced by utilizing a rolling diaphragm, insures a constant output pressure even during wide supply pressure variations.
- Diaphragm design for good repeatability, response and sensitivity.
- Balanced poppet.
- Accurately maintained output pressure under high flow conditions.
- Precise regulation will sense a decrease in downstream pressure.
- High flow capacity attainable with minimal drop out.

Features & Benefits



State of the Art Testing



Standard Valve Equipment Design & Build

Regulator Precision

- Pressure balanced supply valve prevents supply pressure changes from affecting the set point.
- Separate control chamber isolates the diaphragm from the main flow to eliminate hunting and buzzing.

Filter Regulator Precision

- Non-bleed design to reduce consumption.
- A Gauge Port provides convenient pressure gauge mounting.
- The Filter Dripwell contains a Drain Plug to easily drain trapped liquids.
- Standard Tapped Exhaust.

Safety and Environmental Benefits

- Bifold has state of the art product qualification and production equipment including flow (Cv), environment (-60°C to +180°C), function and leakage testing, and data Logging.
- Tolerant to moist air in control lines.
- Products are manufactured, inspected, assembled and tested in our state of the art production facilities.

Accuracy of information

We take care to ensure that product information in this catalogue is reasonably accurate and up-to-date. However, our products are continually developed and updated so to ensure accurate and up-to-date information please refer to the product catalogue issue list on our web site or contact a member of our sales team.

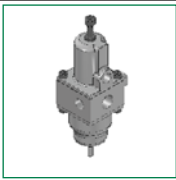
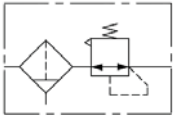
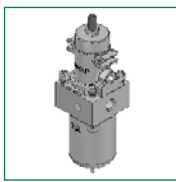
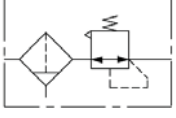
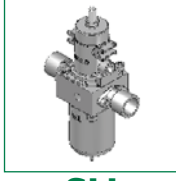
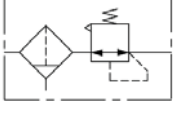
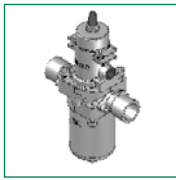
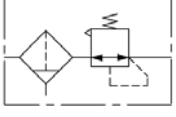
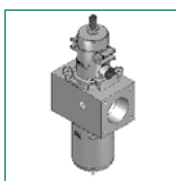
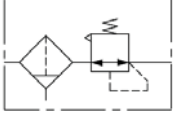
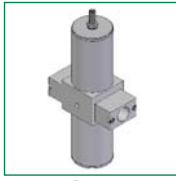
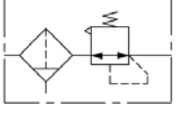
When selecting a product, the applicable operating system design must be considered to ensure safe use. The products function, material compatibility, adequate ratings, correct installation, operation and maintenance are the responsibilities of the system designer and user.

Quality Assurance

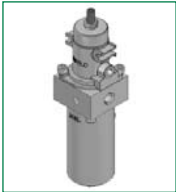
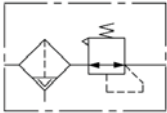
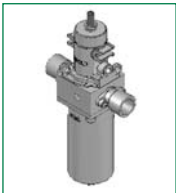
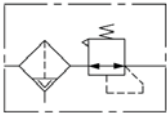
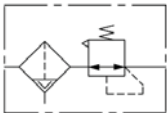
All Bifold products are manufactured to a most stringent QA programme to ensure that every product will give optimum performance and reliability. We are third party certified to BS EN ISO 9001:2008. Functional test certificate, letter of conformity and copies of original mill certificates, providing total traceability are available on request, to BS EN 10204 3.1 where available. We reserve the right to make changes to the specifications and design etc., without prior notice.

Preferred Range



SC & SH - COMPACT / AIR PREPARATION UNIT - PREFERRED RANGE				
Product	Schematic Representation	Page Number	Product Code	Product Description
 SC Compact Air Preparation Unit Manual Drain		10	SC06-20-FR-SR-MD-10-V-X3	1/4" NPT Ports, Filter Regulator, Self Relieving, Manual Drain Unit. C.v. 0.7, 145 psi / 10 bar, 40 - 50 Micron Filter Element.
 SH Air Preparation Unit Manual Drain		11	SH06-FR-SR-MD-10-X3	1/4" NPT Ports, Self Relieving, Manual Drain Unit. C.v. 1.7, 145 psi / 10 bar, 20 - 30 Micron Filter Element.
 SH Air Preparation Unit Manual Drain		11	SH12-FR-SR-MD-10-X3	1/2" NPT Ports, Self Relieving, Manual Drain Unit. C.v. 2.6, 145 psi / 10 bar, 20 - 30 Micron Filter Element.
 SH Air Preparation Unit Manual Drain		11	SH12-FR-SR-MD-10-X3-02	1/2" NPT Ports, Self Relieving, Manual Drain, High Flow Unit. C.v. 4.5, 145 psi / 10 bar, 20 - 30 Micron Filter Element.
 SH Air Preparation Unit Manual Drain		11	SH25L-FR-SR-MD-10-X3-02	1" NPT Ports, Self Relieving, Manual Drain. C.v. 4.5, 145 psi / 10 bar, 20 - 30 Micron Filter Element.
 SH Air Preparation Unit Manual Drain		11	SH25-FR-SR-MD-10-X4	1" NPT Ports, Self Relieving, Manual Drain, High Flow Unit. C.v. 11.2, 145 psi / 10 bar, 40 - 50 Micron Filter Element.

SH - AIR PREPARATION UNIT - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 SH Air Preparation Unit Auto Drain		II	SH06-FR-SR-AD-10-X3	¼" NPT Ports, Self Relieving, Auto Drain Unit. C.v. 1.7, 145 psi / 10 bar, 20 - 30 Micron Filter Element.
 SH Air Preparation Unit Auto Drain		II	SH12-FR-SR-AD-10-X3	½" NPT Ports, Self Relieving, Auto Drain Unit. C.v. 2.6, 145 psi / 10 bar, 20 - 30 Micron Filter Element.
 SH Air Preparation Unit Auto Drain		II	SH12-FR-SR-AD-10-X3-02	½" NPT Ports, Self Relieving, Auto Drain, High Flow Unit. C.v. 4.5, 145 psi / 10 bar, 20 - 30 Micron Filter Element.

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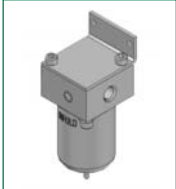
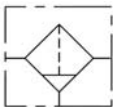
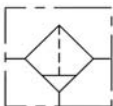
Quality Assurance

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Preferred Range

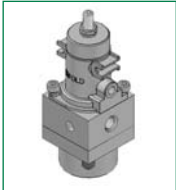
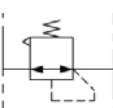
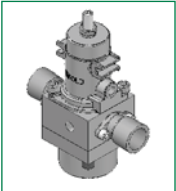
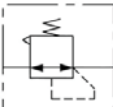


SH - AIR PREPARATION UNIT - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 SH Air Preparation Unit Filter Manual Drain		11	SH06-FI-MD-X3	1/4" NPT Ports, Filter, Manual Drain Unit. C.v. 1.7, 145 psi / 10 bar, 20 - 30 Micron Filter Element.
 SH Air Preparation Unit Filter Manual Drain		11	SH12-FI-MD-X3	1/2" NPT Ports, Self Relieving, Manual Drain Unit. C.v. 2.6, 145 psi / 10 bar, 20 - 30 Micron Filter Element.

Preferred Range

SH - AIR PREPARATION UNIT - PREFERRED RANGE

Product	Schematic Representation	Page Number	Product Code	Product Description
 SH Air Preparation Unit Regulator Self Relieving		11	SH06-RI-SR-10	1/4" NPT Ports, Regulator, Self Relieving Unit. C.v. 1.7, 145 psi / 10 bar.
 SH Air Preparation Unit Regulator Self Relieving		11	SH12-RI-SR-10	1/2" NPT Ports, Regulator, Self Relieving Unit. C.v. 2.6, 145 psi / 10 bar.

SC Overview



Materials of Construction

Body:	316L stainless steel as standard.
Bonnet & Bowl:	316L stainless steel as standard.
Element:	Sintered 316L stainless steel.
Springs:	302S26 stainless steel to BS 2056 (or Inconel).
Regulating spring:	316L stainless steel.
Ports:	1/4" thread milled NPT (BSPP options available).
Seals:	Viton as standard. Alternative elastomers available for extreme conditions.
Diaphragm:	Silicone.
Fasteners:	18/10 stainless steel.
Adjustment Mechanism:	M8 socket set screw.

Flow Performance

145 psi / 10 bar inlet pressure, 87 psi / 6 bar secondary pressure with 14 psi / 1 bar pressure drop using X4 (40 - 50 micron element).

1/4" - Cv 0.7 - 25.9 SCFM.

3/8" - C.v. 0.75 - 27.8 SCFM.

1/2" - C.v. 0.75 - 27.8 SCFM.

Operating Media

- Air.
- Natural Gas
- Inert Gas.
- Sweet or Sour Gases.

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 29 psi / 2 bar secondary pressure 1.5cm³/sec.
- Relief differential 2 psi / 0.15 bar at 29 psi / 2 bar secondary pressure (relieving type only).

Ports

Service ports: 1/4" NPT (BSPP options available).

Certification

Equipment Intended for use in Potentially Explosive Environments - Non-Electrical Equipment



Bifold SC units must be installed, operated and maintained in accordance with the relevant Bifold installation, operating and maintenance instructions, relevant installation rules, regulations and codes of practice.

For more information, please contact Bifold sales department.

Temperature Rating

V	Viton (Standard) (-20°C to +180°C).
AL	Fluorosilicone (-60°C to +100°C).

Bowl Retention Capacity

25cc (Manual Drain).

Maximum Inlet Pressure

290 - 580 psi / 20 - 40 bar (Manual Drain)

Filter Unit

5, 20 - 30 & 40 - 50 Micron.

Regulated Pressures

2.9 - 87 psi / 0.20 to 6 bar.

5.8 - 145 psi / 0.40 to 10 bar.

Water Ingress Rating

Ingress protection - Designed to meet heavy seas / on deck rating.

Seal Repair Kits

Please add the prefix SRK on the models required leaving offport sizes (only require model number up to element reference).
e.g. SRKSC-FR-SR-MD-10-X4.

SH Overview



Materials of Construction

Body:	316L stainless steel as standard.
Bonnet & Bowl:	316L stainless steel as standard.
Element:	Sintered 316L stainless steel.
Springs:	302S26 stainless steel to BS 2056 (or Inconel).
Regulating spring:	Inconel X750 AMS5699.
Ports:	1/4", 3/8", 1/2", 3/4" & 1" thread milled NPT (BSPP other options available)
Seals:	Viton as standard. Alternative elastomers available for extreme conditions.
Diaphragm:	Silicone.
Fasteners:	18/10 stainless steel.
Adjustment Mechanism:	M8 socket set screw.
Mounting mechanism:	Panel, pillar or bracket.

Flow Performance

145 psi / 10 bar inlet pressure, 87 psi / 6 bar secondary pressure with 14 psi / 1 bar pressure drop using X4 (40 - 50 micron element).

1/4" - Cv 1.0 - 36 SCFM.

1/2" - Cv 2.6 - 94 SCFM.

1/2" - Cv 4.5 - 168 SCFM (High Flow).

1" - Cv 4.5 - 429 SCFM (Low Flow).

1" - Cv 11.2 - 429 SCFM.

Operating Media

- Air.
- Natural Gas.
- Inert Gas.
- Sweet or Sour Gases.

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 29 psi / 2 bar secondary pressure 1.5cm³/sec.
- Relief differential 2 psi / 0.15 bar at 29 psi / 2 bar secondary pressure (relieving type only).

Ports

Service ports: 1/4", 3/8", 1/2", 3/4" & 1" NPT (BSPP options available).
Gauge ports: 1/8" NPT standard (1/4" NPT & BSPP options available).

Gauges

Dry: 50mm with psi, bar or dual psi / bar dial.
Glycerine Filled: 50mm with psi, bar or dual psi / bar dial polycarbonate window and blow-out device.
Other options available please see page 17.

Certification

Equipment Intended for use in Potentially Explosive Environments - Non-Electrical Equipment



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For more information, please contact Bifold sales department.

Temperature Rating

SH	Viton	(-20°C to +180°C).
ASH	Fluorosilicone	(-60°C to +100°C).

Bowl Retention Capacity

25cc (Manual Drain) & 50cc (Auto Drain).

Maximum Inlet Pressure

232 psi / 16 bar (Auto Drain).
290 - 580 psi / 20 - 40 bar (Manual Drain).

Filter Unit

5, 20 - 30 (Standard) & 40 - 50 Micron.

Regulated Pressures

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

Water Ingress Rating

Ingress protection - Designed to meet heavy seas / on deck rating.

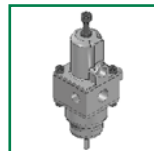
Seal Repair Kits

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-X4.

SC - Compact Air Preparation Unit Range Selection Chart

SC

For a dimensional drawing of the SC unit, please see page 12.



Bifold®

SC Selection Chart - Ordering Example

SC	Standard Service		Model Code									
06	1/4" NPT (Stainless Steel)		Ports									
09	3/8" NPT (Stainless Steel)											
12	1/2" NPT (Stainless Steel)											
20	290 psi / 20 bar		Inlet Pressure									
FR	Filter Regulator		Model Type									
RI	Regulator											
SR	Self Relieving		Self / Non Relieving									
NR	Non Relieving											
MD	Manual Drain (Not Applicable to Regulators)		Drain Option									
<table><tr><th></th><th>Nominal</th><th>Actual</th></tr><tr><td>06</td><td>87 psi / 6 bar</td><td>2.9 - 87 psi / 0.20 to 6 bar</td></tr><tr><td>10</td><td>145 psi / 10 bar</td><td>5.8 - 145 psi / 0.40 to 10 bar</td></tr></table>				Nominal	Actual	06	87 psi / 6 bar	2.9 - 87 psi / 0.20 to 6 bar	10	145 psi / 10 bar	5.8 - 145 psi / 0.40 to 10 bar	Output Regulated Pressures
	Nominal	Actual										
06	87 psi / 6 bar	2.9 - 87 psi / 0.20 to 6 bar										
10	145 psi / 10 bar	5.8 - 145 psi / 0.40 to 10 bar										
V	Viton (Standard) (-20°C to +180°C)		O-Ring Material									
AL	Fluorosilicone (-60°C to +100°C)											
X1	5 Micron Element		Filter Element									
X3	20 - 30 Micron Element											
X4	40 - 50 Micron Element											
NO LETTER	NPT Ports		Option									
K6	BSPP Ports											
NO LETTER	Allen Key Adjustment		Option									
K10	Black Plastic Button Adjustment											
NO LETTER	Regular Drain Screw		Option									
L116	Knurled Drain Screw											

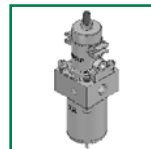
SC 06 - 20 - FR - SR - MD - 10 - V - X4 - K6 - K10 - L116

Ordering Example

Bespoke configured datasheets are available for specific model numbers, please contact Bifold for more information.

SH

For the dimensional drawings of the SH units, please see pages 12 - 16.


Bifold®

SH Selection Chart - Ordering Example

SH	Standard service (-20°C to +180°C)			Model Code
S40H	580 psi / 40 bar inlet (Only available with 1/4" NPT)			
ASH	Arctic service (-60°C to +100°C)			
06	1/4" NPT (Stainless Steel)			Ports
09	3/8" NPT (Stainless Steel)			
12	1/2" NPT (Stainless Steel)			
19L	3/4" NPT Low Flow (Stainless Steel)			
25L	1" NPT Low Flow (Stainless Steel)			
19	3/4" NPT (Only available with 145 psi / 10 bar regulated pressure & X1 & X4 micron elements)			
25	1" NPT (Only available with 145 psi / 10 bar regulated pressure & X1 & X4 micron elements)			
RI	Regulator			Model Type
FI	Filter			
FR	Filter Regulator			
SR	Self Relieving			Self / Non Relieving
NR	Non Relieving (Not Applicable to Filters)			
MD	Manual Drain			Drain Option
AD	AutoDrain (Not Applicable to Regulators)			
				Output Regulated Pressures
				Filter Element
				Option
				Gauge Options
				Option
				Option
				High Flow

SH 06 - FR - SR - MD - IO - X3 - K6 - K39-K10-L116-02

Ordering Example

SH 06 - FR - SR - MD - 10 - X3 - K6 - K39-K10-L116-02

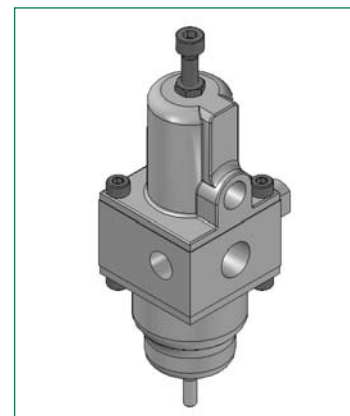
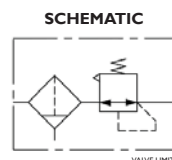
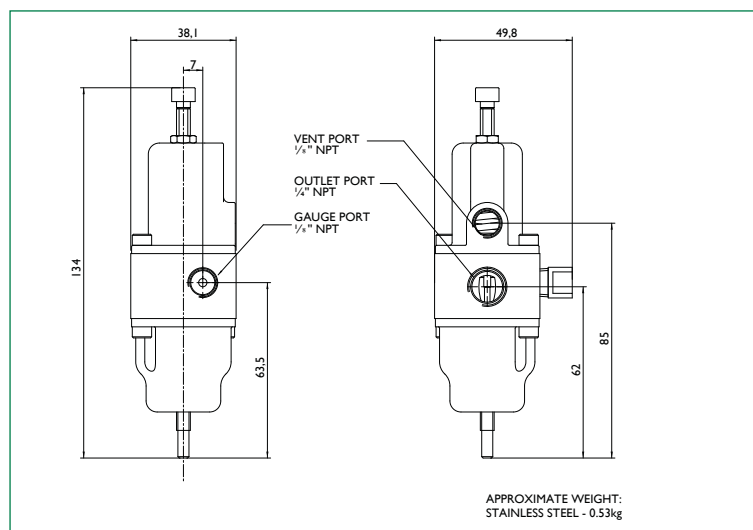
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Dimensional Drawings

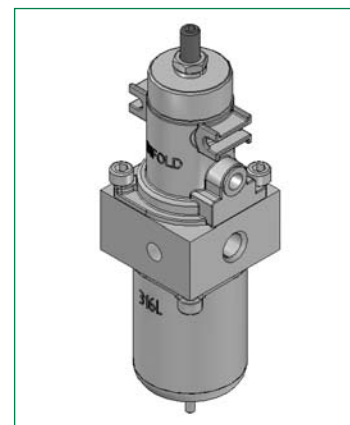
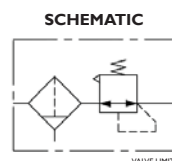
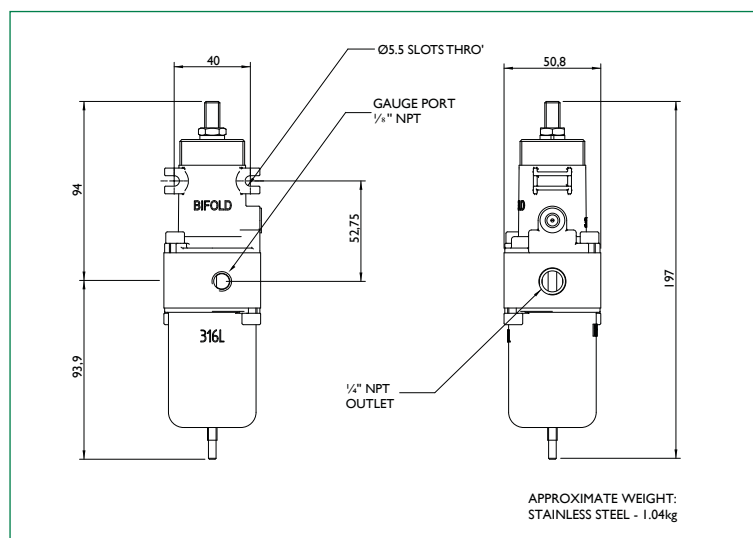


Example Code - SC06-20-FR-SR-MD-10-X4



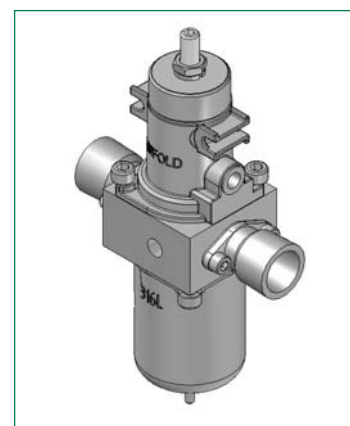
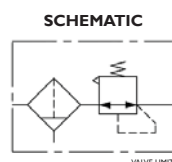
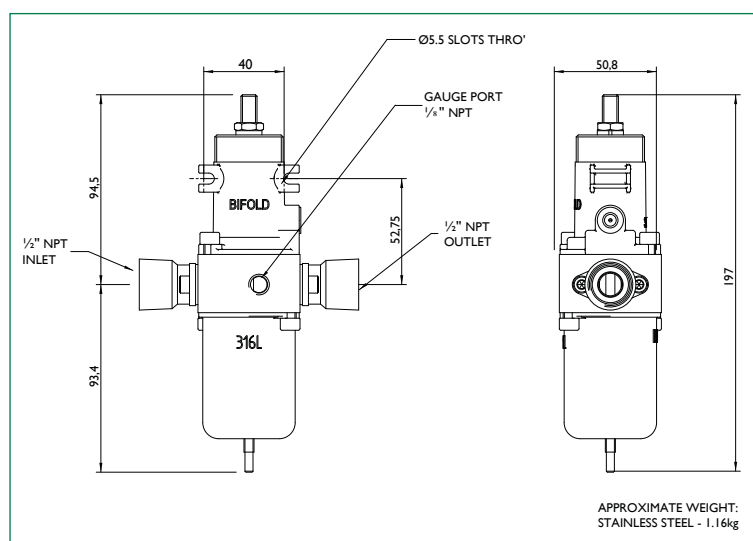
SC
Compact Air Preparation Unit
Manual Drain

Example Code - SH06-FR-SR-MD-10-X3



SH
Air Preparation Unit
Manual Drain

Example Code - SH12-FR-SR-MD-10-X3



SH
Air Preparation Unit
Manual Drain

All dimensions in mm

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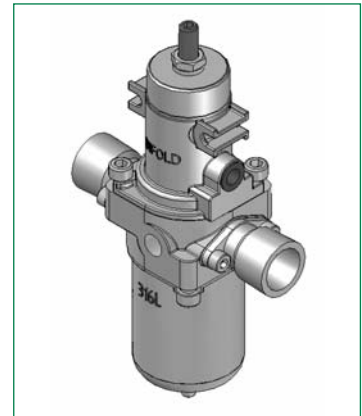
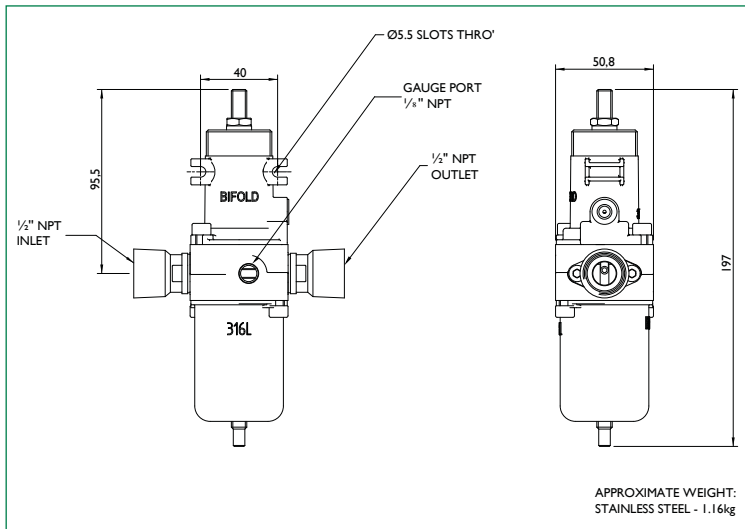
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Dimensional Drawings

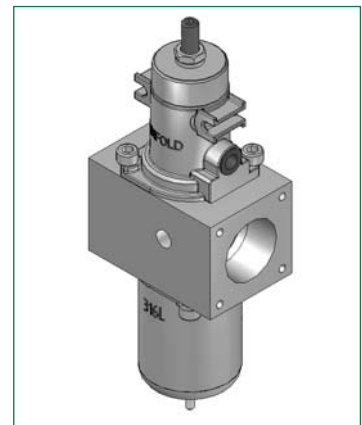
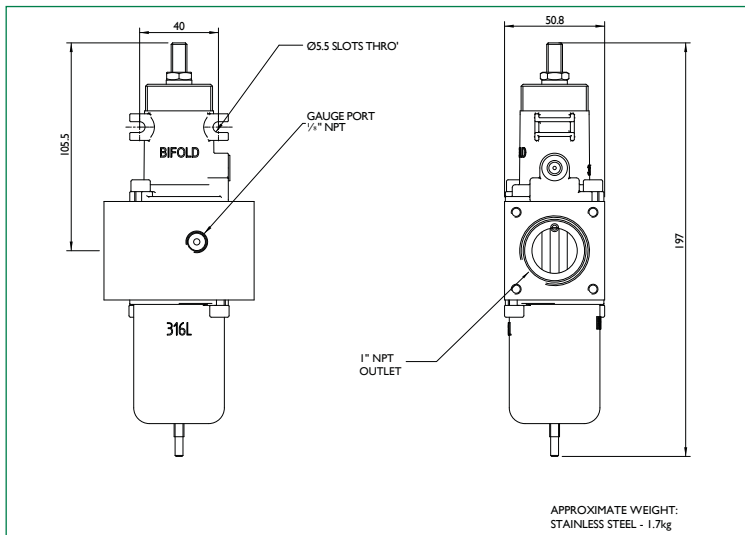


Example Code - SH12-FR-SR-MD-10-X3-02



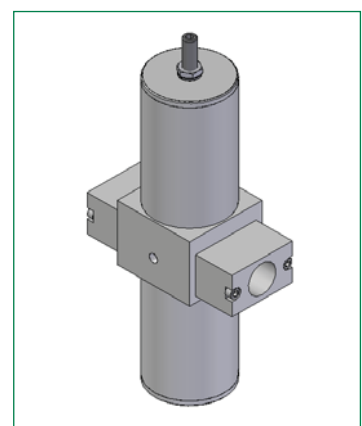
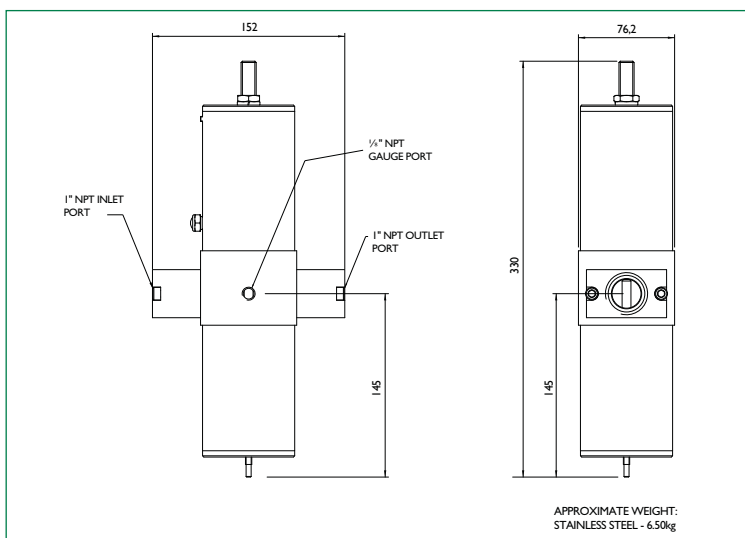
SH
Air Preparation Unit
Manual Drain

Example Code - SH25L-FR-SR-MD-10-X3-02



SH
Air Preparation Unit
Manual Drain

Example Code - SH25-FR-SR-MD-10-X4-02

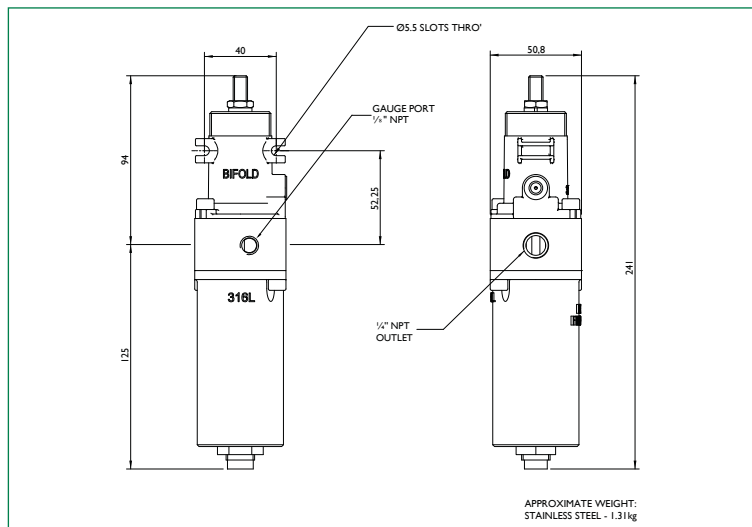


SH
Air Preparation Unit
Manual Drain

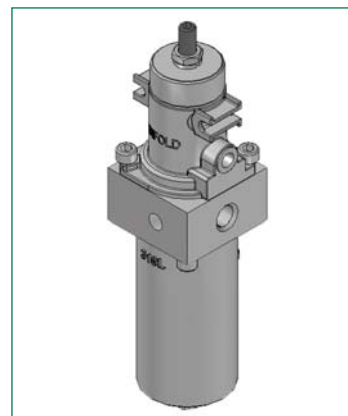
All dimensions in mm

Dimensional Drawings

Example Code - SH06-FR-SR-AD-10-X3

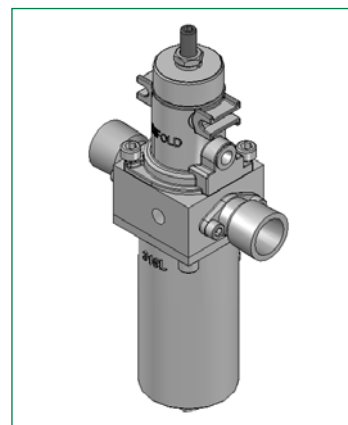
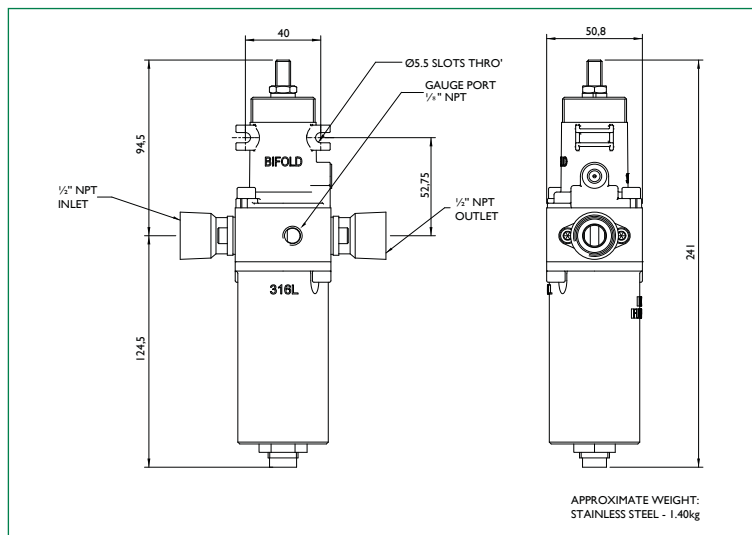


Bifold®



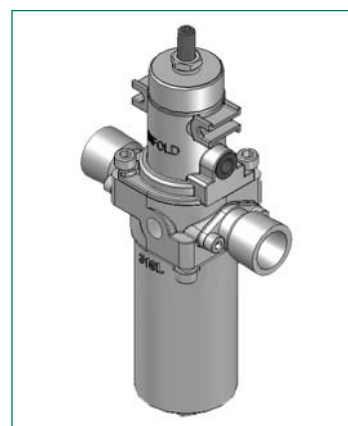
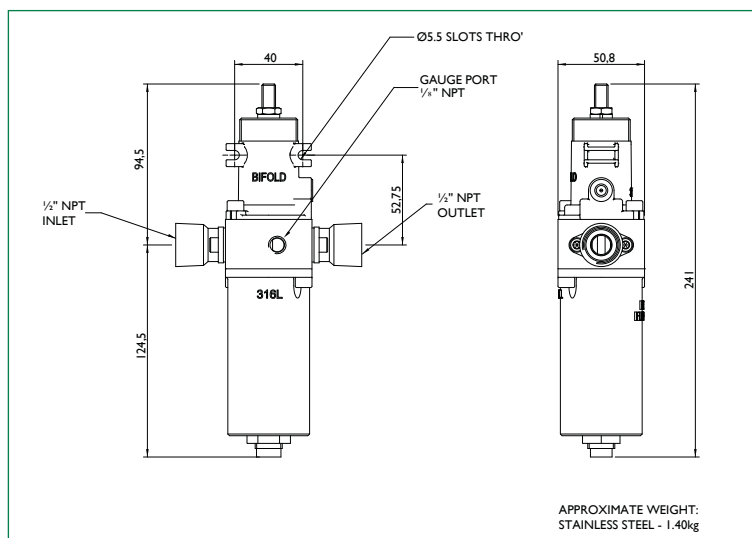
SH
Air Preparation Unit
Auto Drain

Example Code - SH12-FR-SR-AD-10-X3



SH
Air Preparation Unit
Auto Drain

Example Code - SH12-FR-SR-AD-10-X3-02



SH
Air Preparation Unit
Auto Drain

All dimensions in mm

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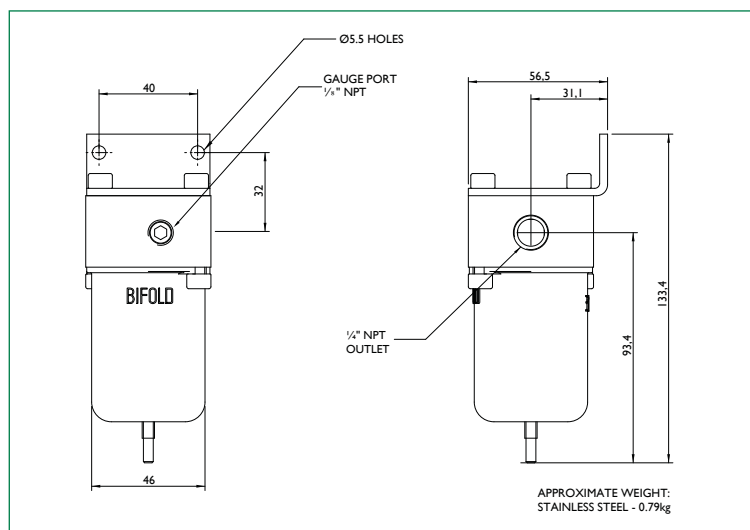
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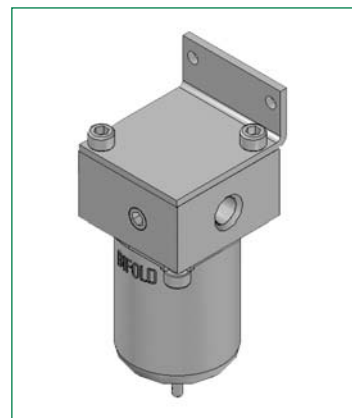
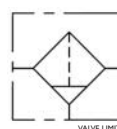
Dimensional Drawings



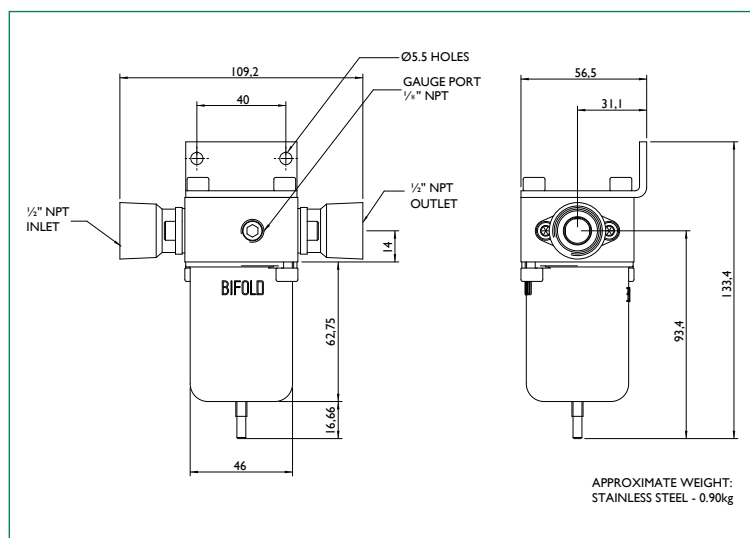
Example Code - SH06-FI-MD-X3



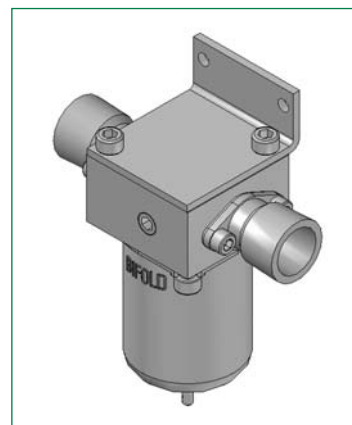
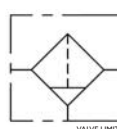
SCHEMATIC

**SH**Air Preparation Unit
Filter Manual Drain

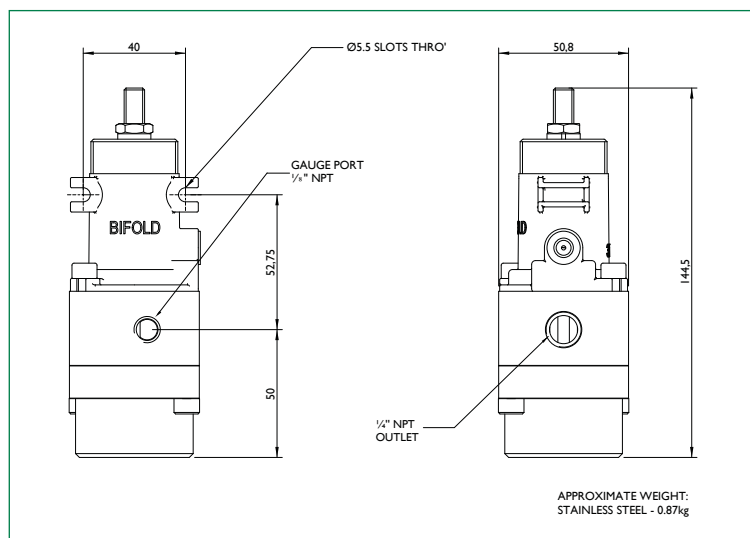
Example Code - SH12-FI-MD-X3



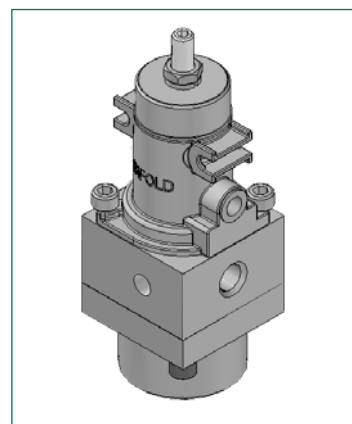
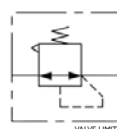
SCHEMATIC

**SH**Air Preparation Unit
Filter Manual Drain

Example Code - SH06-R1-SR-10



SCHEMATIC

**SH**Air Preparation Unit
Regulator Manual Drain

All dimensions in mm

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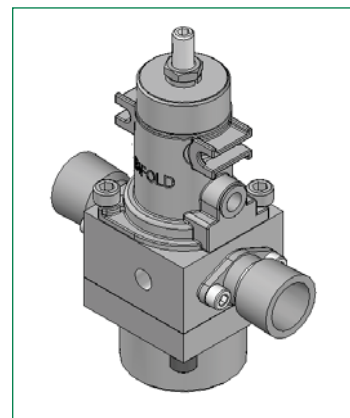
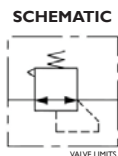
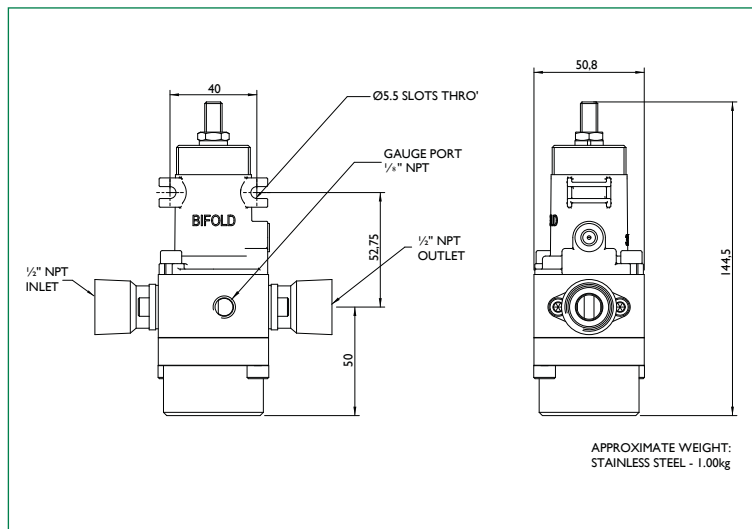
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Dimensional Drawings

Example Code - SH12-RI-SR-10



SH
Air Preparation Unit
Regulator Manual Drain

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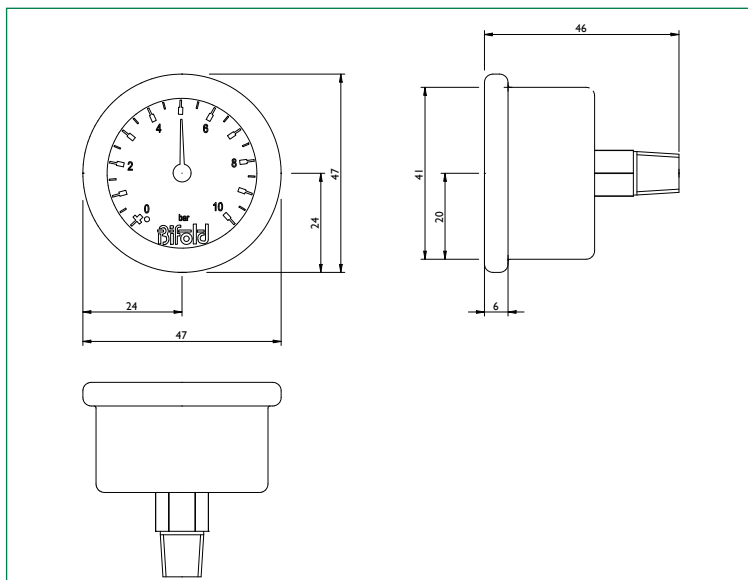
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Gauge Options



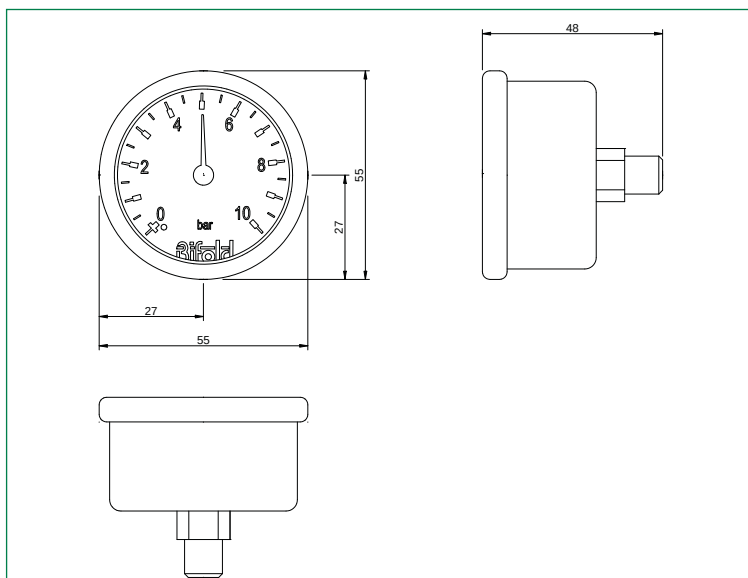
SC - Compact Air Preparation Unit



- X10** 10 bar - 40mm Gauge.
- X11** 10 bar - 40mm Glycerine Filled Gauge.
- X10PB** 145 psi / 10 bar - 40mm Dual Gauge.
- X11PB** 145 psi / 10 bar - 40mm Dual Glycerine Filled Gauge.

(316L stainless steel case as standard).

SH - Air Preparation Unit



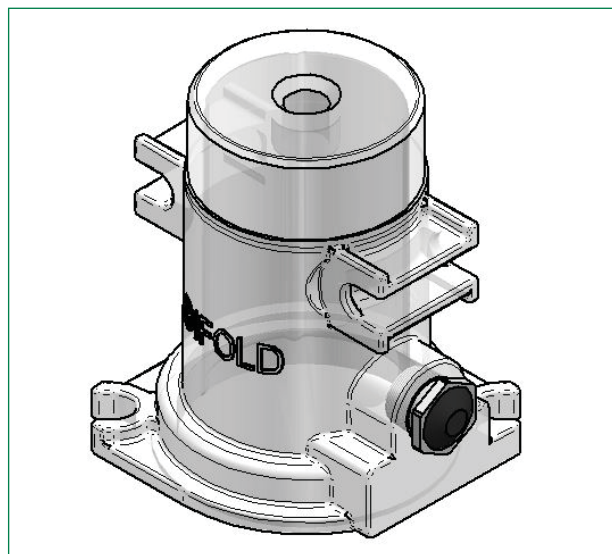
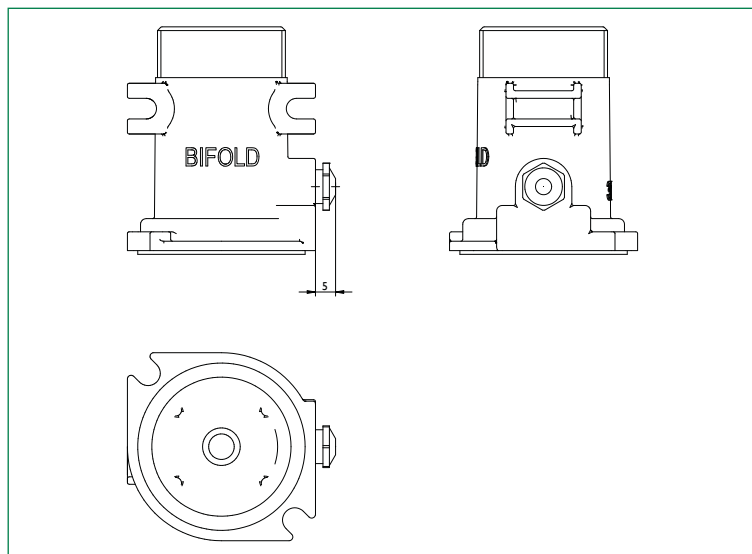
- X5** 10 bar - 50mm Gauge.
 - X8** 10 bar - 50mm Glycerine Filled Gauge.
 - X5PB** 145 psi / 10 bar - 50mm Gauge.
 - X8PB** 145 psi / 10 bar - 50mm Glycerine Filled Gauge.
- Other scale plates available.

(316L stainless steel case as standard).

Additional Options



SC - Compact Air Preparation Unit & SH - Air Preparation Unit



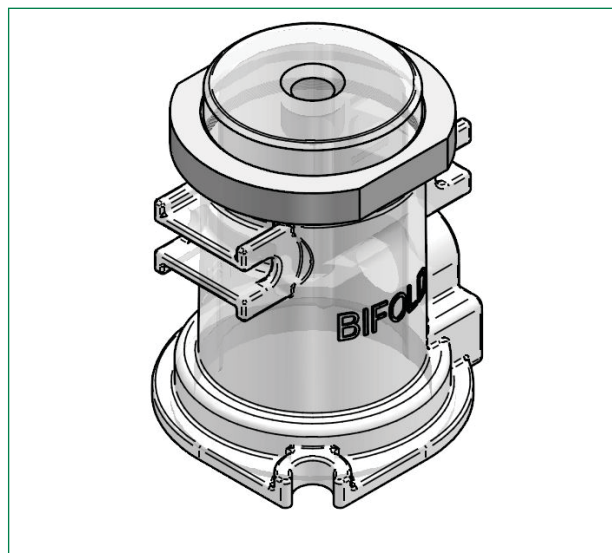
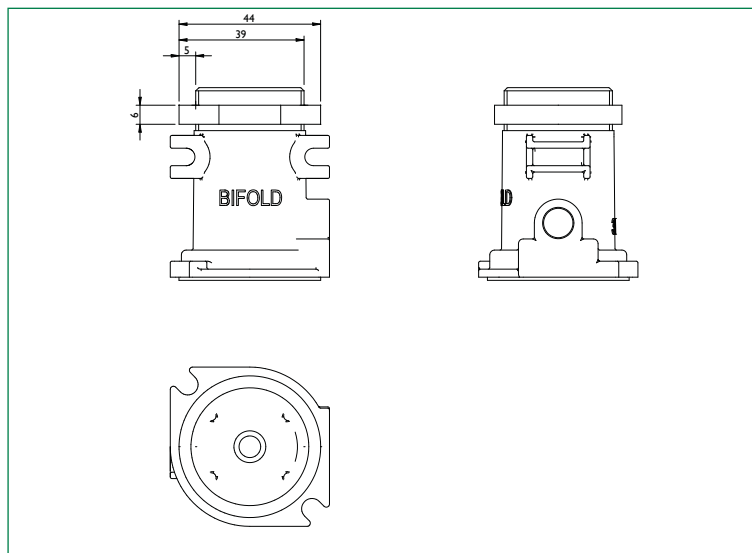
Bug Vent

L15 Viton / 316L Stainless Steel Bug Vent.

(Not Applicable to SH Filters)

Mounting Options

SH - Air Preparation Unit



Mounting Option

(Not Applicable to Filters)

L8 Panel Mount Kit

(Not Applicable to SH19 and SH25)

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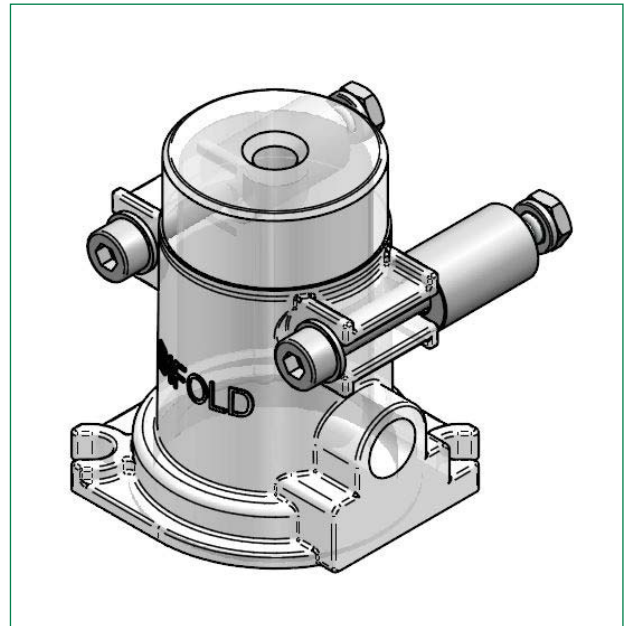
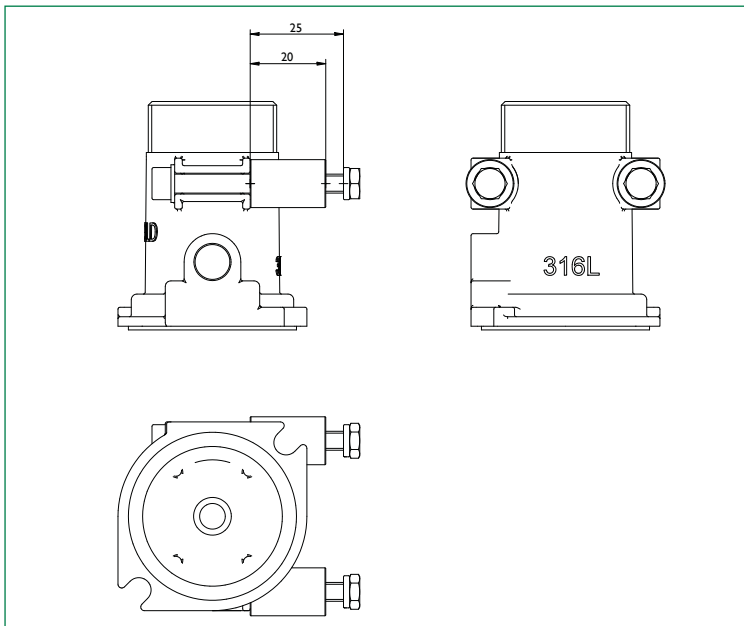
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Mounting Options

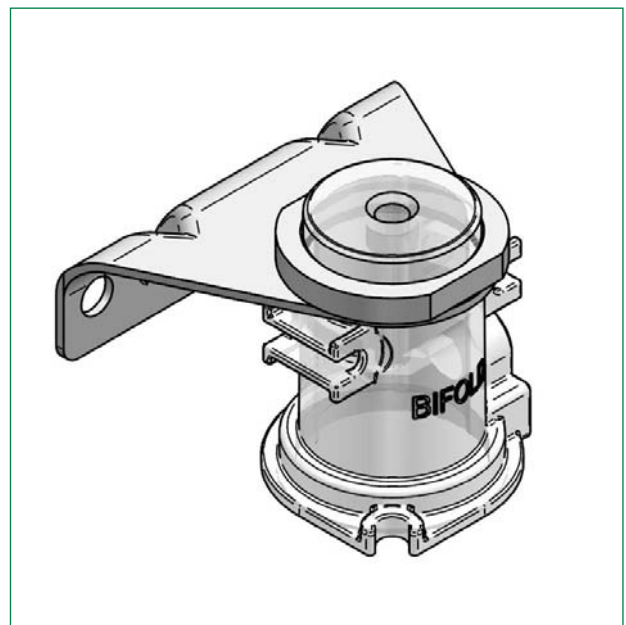
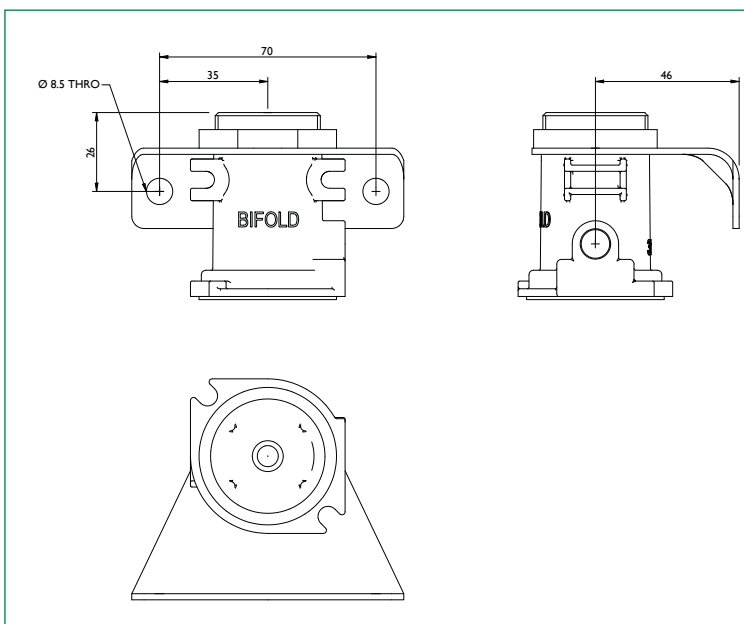


SH - Air Preparation Unit



Mounting Option (Not Applicable to Filters) **L9** Pillar Mount Kit

(Not Applicable to SH19 and SH25)



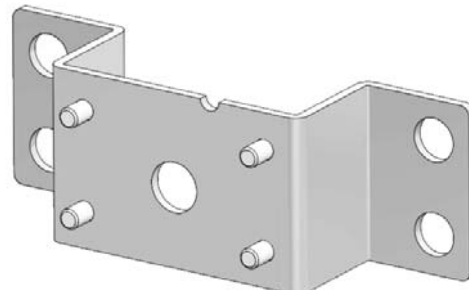
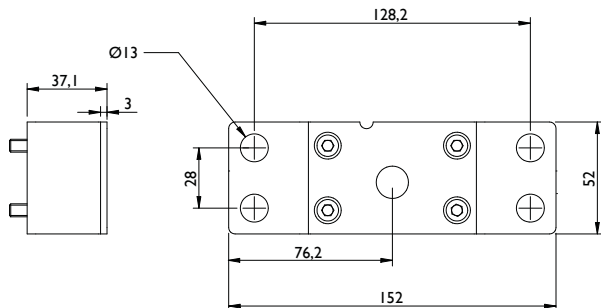
Mounting Option (Not Applicable to Filters) **L46** Panel Mount and Bracket

(Not Applicable to SH19 and SH25)

Mounting Options



SH - Air Preparation Unit



Bug Vent L160 Bracket

(Only Applicable to SH19 and SH25)

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Instrument, Process, Directional Control Valves, Pumps and Actuator Electronic Control and Positioning

Bifold® Group

Pneumatic and Instrumentation Valves
Hydraulic Valves
Subsea Valves
Hydraulic Pumps, Intensifiers and Valves
Actuator Electronic Control and Positioning

Bifold®
Bifold FluidPower®
Bifold® Subsea
Bifold® Marshalsea
Bifold Orange®

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Fax: +44 (0) 1823 323382
Email: info@marshalsea.co.uk
Web: bifold.co.uk

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Tel: +1 (713) 304 4012
Fax: +1 (713) 783 0067
Email: marketing@bifold.co.uk
Web: bifold.co.uk

Singapore Office

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Web: bifold.co.uk

Innovative and Reliable Valve Solutions



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