Air Preparation Units, Filter, Regulator & Filter Regulator 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
- ATEX
- NACE MR-01-75 Internal Wetted and Body Materials (Option)
- High Flow - up to 11.2 Cv
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</tbody>
</table>

### Accuracy of Information

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### 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.
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

SC & SH - Compact / Air Preparation Unit Range

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.

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State of the Art Testing

Bifold.co.uk
### Preferred Range

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH12-FR-SR-MD-10-X3</td>
<td>¼&quot; NPT Ports, Self Relieving, Manual Drain Unit. ATEX II 2 GD Ex c b IIC T6 Cv 2.6, 145 psi / 10 bar, 20 - 30 Micron Filter Element.</td>
</tr>
</tbody>
</table>

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**Quality Assurance**

All Bifold products are manufactured to a precise engineering specification. Key components are sourced from quality-orientated suppliers. Testing is conducted to verify that all products will give optimum performance and reliability. We are an ATEX certified company and all products are certified to EN 10994.1 (2016) with ATEX II 2 GD Ex c b IIC T6 available as required. The data in the guide may change as further references to specifications and designs are revised.
### Preferred Range

#### SH - AIR PREPARATION UNIT - PREFERRED RANGE

<table>
<thead>
<tr>
<th>Product</th>
<th>Schematic Representation</th>
<th>Page Number</th>
<th>Product Code</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH</td>
<td><img src="image" alt="SH06-FR-SR-AD-10-X3" /></td>
<td>11</td>
<td>SH06-FR-SR-AD-10-X3</td>
<td>¼&quot; NPT Ports, Self Relieving, Auto Drain Unit.</td>
</tr>
<tr>
<td>SH</td>
<td><img src="image" alt="SH12-FR-SR-AD-10-X3" /></td>
<td>11</td>
<td>SH12-FR-SR-AD-10-X3</td>
<td>½&quot; NPT Ports, Self Relieving, Auto Drain Unit.</td>
</tr>
<tr>
<td>SH</td>
<td><img src="image" alt="SH12-FR-SR-AD-10-X3-02" /></td>
<td>11</td>
<td>SH12-FR-SR-AD-10-X3-02</td>
<td>½&quot; NPT Ports, Self Relieving, Auto Drain, High Flow Unit.</td>
</tr>
</tbody>
</table>

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## SH - Air Preparation Unit Range

### Preferred Range

#### SH - AIR PREPARATION UNIT - PREFERRED RANGE

<table>
<thead>
<tr>
<th>Product</th>
<th>Schematic Representation</th>
<th>Page Number</th>
<th>Product Code</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SH</strong> Air Preparation Unit Filter Manual Drain</td>
<td><img src="image" alt="SH06-F1-MD-X3" /></td>
<td>11</td>
<td>SH06-F1-MD-X3</td>
<td>¼&quot; NPT Ports, Filter; Manual Drain Unit. ATEX II 2 GD Ex c b IIC T6 Cv 1.7, 145 psi / 10 bar, 20 - 30 Micron Filter Element.</td>
</tr>
<tr>
<td><strong>SH</strong> Air Preparation Unit Filter Manual Drain</td>
<td><img src="image" alt="SH12-F1-MD-X3" /></td>
<td>11</td>
<td>SH12-F1-MD-X3</td>
<td>½&quot; NPT Ports, Self Relieving, Manual Drain Unit. ATEX II 2 GD Ex c b IIC T6 Cv 2.6, 145 psi / 10 bar, 20 - 30 Micron Filter Element.</td>
</tr>
<tr>
<td><strong>SH</strong> Air Preparation Unit Regulator Self Relieving</td>
<td><img src="image" alt="SH06-R1-SR-10" /></td>
<td>11</td>
<td>SH06-R1-SR-10</td>
<td>¼&quot; NPT Ports, Regulator, Self Relieving Unit. ATEX II 2 GD Ex c b IIC T6 Cv 1.7, 145 psi / 10 bar.</td>
</tr>
<tr>
<td><strong>SH</strong> Air Preparation Unit Regulator Self Relieving</td>
<td><img src="image" alt="SH12-R1-SR-10" /></td>
<td>11</td>
<td>SH12-R1-SR-10</td>
<td>½&quot; NPT Ports, Regulator, Self Relieving Unit. ATEX II 2 GD Ex c b IIC T6 Cv 2.6, 145 psi / 10 bar.</td>
</tr>
</tbody>
</table>

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BFD000 November ’16

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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:** ¼" 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

- **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 psi / 20 bar (Manual Drain).

Filter Unit

- **Regulated Pressures**

- **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. SRKSC-FR-SR-MD-10-X4.

Ports

- **Service ports:** ¼" NPT (BSPP options available).

Gauges

- **Dry:** 40mm with psi, bar or dual psi / bar dial.
- **Glycerine Filled:** 40mm with psi, bar or dual psi / bar dial polycarbonate window and blow-out device.

Certification

- **ATEX II 2 GD Ex c b IIC T6**
- Conforms to European Directive 94/9/EC (ATEX) relating to non-electrical equipment intended for use in potentially explosive atmospheres.

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.
**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:** \(\frac{1}{4}\), \(\frac{3}{8}\), \(\frac{1}{2}\), \(\frac{3}{4}\) & 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).
  - \(\frac{1}{4}\)" - Cv 1.0 - 36 SCFM.
  - \(\frac{1}{2}\)" - Cv 2.6 - 94 SCFM.
  - \(\frac{3}{8}\)" - 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 \(\frac{1}{16}\)" NPT vent with removable plastic ingress protection cap.
- For gas service, plastic ingress protection cap can be removed to enable vented gas to be piped away.
- Typical bleed flow at 29 psi / 2 bar secondary pressure 1.5cm \(\frac{3}{4}\)sec.
- Relief differential 2 psi / 0.15 bar at 29 psi / 2 bar secondary pressure (relieving type only).

### Ports

- **Service ports:** \(\frac{1}{8}\), \(\frac{3}{8}\), \(\frac{1}{2}\), \(\frac{3}{4}\) & 1" NPT (BSPP options available).
- **Gauge ports:** \(\frac{1}{8}\)" NPT standard (\(\frac{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.

### 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 or 40 bar (Manual Drain).

### Filter Unit

- 5.20 - 30 & 40 - 50 (Standard) 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.

### Certification

**ATEX**

II 2 GD Ex c b IIC T6

Conforms to European Directive 94/9/EC (ATEX) relating to non-electrical equipment intended for use in potentially explosive atmospheres.

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BFD000 November ’16

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**SC Selection Chart - Ordering Example**

<table>
<thead>
<tr>
<th>SC</th>
<th>Standard Service</th>
<th>Model Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>⅛&quot; NPT (Stainless Steel)</td>
<td>Ports</td>
</tr>
<tr>
<td>09</td>
<td>½&quot; NPT (Stainless Steel)</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>⅛&quot; NPT (Stainless Steel)</td>
<td></td>
</tr>
</tbody>
</table>

**FR** Filter Regulator

**RI** Regulator

**SR** Self Relieving

**NR** Non Relieving

**MD** Manual Drain (Not Applicable to Regulators)

**Nominal**

<table>
<thead>
<tr>
<th>Inlet Pressure</th>
<th>06</th>
<th>09</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>87 psi / 6 bar</td>
<td>145 psi / 10 bar</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Actual**

<table>
<thead>
<tr>
<th>Regulated Pressures</th>
<th>06</th>
<th>09</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.9 - 87 psi / 0.20 to 6 bar</td>
<td>5.8 - 145 psi / 0.40 to 10 bar</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**V** Viton (Standard)

**AL** Fluorosilicone

**Nominal**

<table>
<thead>
<tr>
<th>-20°C to +180°C</th>
<th>(-60°C to +100°C)</th>
</tr>
</thead>
</table>

**Output**

<table>
<thead>
<tr>
<th>O-Ring Material</th>
<th>Viton (Standard)</th>
</tr>
</thead>
</table>

**Filter Element**

<table>
<thead>
<tr>
<th>X1</th>
<th>X3</th>
<th>X4</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 Micron Element</td>
<td>20 - 30 Micron Element</td>
<td>40 - 50 Micron Element (Standard)</td>
</tr>
</tbody>
</table>

**Port Option**

<table>
<thead>
<tr>
<th>NPT Ports (Standard)</th>
<th>BSPP Ports</th>
</tr>
</thead>
</table>

**Adjustment Option**

<table>
<thead>
<tr>
<th>Allen Key Adjustment (Standard)</th>
<th>Black Plastic Button Adjustment</th>
</tr>
</thead>
</table>

**Drain Screw Option**

<table>
<thead>
<tr>
<th>Regular Drain Screw (Standard)</th>
<th>Knurled Drain Screw</th>
</tr>
</thead>
</table>

**H2S** NACE MR-01-75 compliant internal wetted and body materials

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

For a dimensional drawing of the SC unit, please see page 12.
# SH - Air Preparation Unit Range Selection Chart

**SH Selection Chart - Ordering Example**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>SH</th>
<th>S40H</th>
<th>ASH</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>¼&quot; NPT (Stainless Steel)</td>
<td>580 psi / 40 bar inlet (Only available with ¼&quot; NPT and Manual Drain)</td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>½&quot; NPT (Stainless Steel)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>½&quot; NPT (Stainless Steel)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19L</td>
<td>¾&quot; NPT Low Flow (Stainless Steel)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25L</td>
<td>1&quot; NPT Low Flow (Stainless Steel)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>¼&quot; NPT (Only available with 145 psi / 10 bar regulated pressure &amp; X1 &amp; X4 micron elements)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>1&quot; NPT (Only available with 145 psi / 10 bar regulated pressure &amp; X1 &amp; X4 micron elements)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Model Type
- **RI**: Regulator
- **FI**: Filter
- **FR**: Filter Regulator

### Self / Non Relieving
- **SR**: Self Relieving
- **NR**: Non Relieving

### Drain Option
- **MD**: Manual Drain
- **AD**: Auto Drain

### Nominal vs Actual

<table>
<thead>
<tr>
<th>Nominal</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>29 psi / 2 bar</td>
</tr>
<tr>
<td>04</td>
<td>58 psi / 4 bar</td>
</tr>
<tr>
<td>06</td>
<td>87 psi / 6 bar</td>
</tr>
<tr>
<td>08</td>
<td>116 psi / 8 bar</td>
</tr>
<tr>
<td>10</td>
<td>145 psi / 10 bar</td>
</tr>
</tbody>
</table>

### Output Regulated Pressures
- **K6**: NPT Ports (Standard)
- **BSPP Ports**

### Gauge Port Options
- **NO LETTER**: (Standard)
- **K39**: ¼" Gauge Port (Standard)
- **K84**: Plugged for ¼" Gauge Port
- **K94**: Plugged for ¼" Gauge Port

### Adjustment Option
- **NO LETTER**: Allen Key Adjustment (Standard)
- **K10**: Black Plastic Button Adjustment

### Drain Screw Options
- **NO LETTER**: Regular Drain Screw (Standard)
- **L116**: Knurled Drain Screw

### High Flow Options
- **NO LETTER**: H2S NACE MR-01-75 compliant internal wetted and body materials

### Ordering Example


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

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Quality Assurance:
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All dimensions in mm
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Example Code - SH12-FR-SR-MD-10-X3-02

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

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

All dimensions in mm
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Quality Assurance

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

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

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

All dimensions in mm
### Dimensional Drawings

**Example Code - SH06-F1-MD-X3**

![Diagram](image)

**Example Code - SH12-F1-MD-X3**

![Diagram](image)

**Example Code - SH06-R1-SR-10**

![Diagram](image)

All dimensions in mm

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Example Code - SH12-R1-SR-10

SH - Air Preparation Unit Dimensional Drawings

Approximate weight: Stainless steel - 1.05kg

SH12-R1-SR-10

Air Preparation Unit
Regulator Manual Drain

SH - Air Preparation Unit
Regulator Manual Drain
### Gauge Options

**SC - Compact Air Preparation Unit**

| X10  | 10 bar - 40mm Gauge. |
| X11  | 10 bar - 40mm Glycerine Filled Gauge. |
| X10PB | 160 psi / 10 bar - 40mm Dual Gauge. |
| X11PB | 160 psi / 10 bar - 40mm Dual Glycerine Filled Gauge. |

**SH - Air Preparation Unit**

| X5  | 10 bar - 50mm Gauge. |
| X8  | 10 bar - 50mm Glycerine Filled Gauge. |
| X5PB | 160 psi / 10 bar - 50mm Gauge. |
| X8PB | 160 psi / 10 bar - 50mm Glycerine Filled Gauge. |

Other scale plates available.

### Pressure Gauge

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure</td>
<td>10 bar or 160 psi / 10 bar</td>
</tr>
<tr>
<td>Material</td>
<td>316L stainless steel</td>
</tr>
<tr>
<td>Protection</td>
<td>IP65, Polycarbonate Window, Fixed Crimped Bezel</td>
</tr>
<tr>
<td>Certification</td>
<td>Certificate of Conformity, Calibration Certificates (upon request)</td>
</tr>
<tr>
<td>Temperature</td>
<td>Ambient: -20°C to +60°C Media: +60°C</td>
</tr>
</tbody>
</table>

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Additional Options

K10
Black Plastic Button Adjustment

L116
Knurled Drain Screw

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Additional Options

Bug Vent

L15  Viton / 316L Stainless Steel Bug Vent.

SH - Air Preparation Unit

Tamperproof Cap

Mounting Option

(Not Applicable to Filters)

L11  316L Stainless Steel Tamperproof Cap

(Not Applicable to SH19 and SH25)
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Additional Options

SH - Air Preparation Unit

Mounting Option
(Not Applicable to Filters)
L8 316L Stainless Steel Panel Mount Kit

Mounting Option
(Not Applicable to Filters)
L9 316L Stainless Steel Pillar Mount Kit
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Additional Line Items

Mounting Options

SH - Air Preparation Unit

Mounting Option
(Not Applicable to Filters)
L46 316L Stainless Steel Panel Mount and Bracket

Bug Vent
L160 316L Stainless Steel Bracket

(Not Applicable to SH19 and SH25)

(Not Applicable to SH19 and SH25)
Instrument, Process, Directional Control Valves, Pumps and Actuator Electronic Control and Positioning

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

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