

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

Innovative and Reliable Valve Solutions



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SC & SH - Compact / Air Preparation Unit Range

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.

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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.

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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	 '/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	½" 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	I" 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	I" NPT Ports, Self Relieving, Manual Drain, High Flow Unit. C.v. 11.2, 145 psi / 10 bar, 40 - 50 Micron Filter Element.				

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Preferred Range

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SH - AIR PREPARATION UNIT - PREFERRED RANGE							
Product	Schematic Representation	Page Number	Product Code	Product Description			
SH Air Preparation Unit Auto Drain		11	SH06-FR-SR-AD-10-X3	¹ /4" 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		11	SH12-FR-SR-AD-10-X3	¹ /2" 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		11	SH12-FR-SR-AD-10-X3-02	¹ /2" 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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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-F1-MD-X3	'⁄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-F1-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	W	П	SH06-R1-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-R1-SR-10	1⁄2" NPT Ports, Regulator, Self Relieving Unit. C.v. 2.6, 145 psi / 10 bar.						

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SC Overview

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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 1.5cm ³/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

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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.

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> t, the applicable operating system BS EP ed to ensure safe use. The products confo biblity, adequate ratings, correct total d maintenance are the when



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.

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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). I" - Cv 4.5 - 429 SCFM (Low Flow). I" - Cv II.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
 - 1.5cm ³/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" & I" NPT (BSPP options available). 1/8" NPT standard (1/4" NPT & BSPP options available). Gauge ports:

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

Bifold SH 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.

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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 offport sizes (only require model number up to element reference). e.g. SRKSH-FR-SR-MD-10-X4.



SC

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



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SC Selection Chart - Ordering Example

0 (lard Service			Model Code
06 09 12	³ /8"	NPT (Stainless Steel) NPT (Stainless Steel) NPT (Stainless Steel)			Ports
	20		Inlet Pressure		
	FR RI		or .		Model Type
		SRSelf RelieNRNon Relie			Self / Non Relievir
		MD Man	ual Drain (Not Applicable to Regu	ators)	Drain Option
			Nominal	Actual	Output
		06 10	87 psi / 6 bar 145 psi / 10 bar	2.9 - 87 psi / 0.20 to 6 bar 5.8 - 145 psi / 0.40 to 10 bar	Regulated Pressur
		V A	Viton (Standard) (-20°C L Fluorosilicone (-60°C	to +180°C) to +100°C)	O-Ring Material
			XI 5 Micron Element X3 20 - 30 Micron Element X4 40 - 50 Micron Element		Filter Element
				Ports Ports	Option
			NO LETTER KI0	Allen Key Adjustment Black Plastic Button Adjustment	Option
			NO LETTEI LI 16	Regular Drain Screw Knurled Drain Screw	Option

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





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SH - Air Preparation Unit Range Selection Chart

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





SH Selection Chart - Ordering Example

SH

40H SH	Arcti	c servi	ce (-6	0°C	to +l	00°C)	ble with	74 1	NF1)			Model Code
06 09 12 191 251 19 25	-	1" NP [:] ¾" NI	PT (Sta PT (Sta PT Lo PT Low PT (O	ainles ainles w Flo v Flov vnly a	ss Stee ss Stee ow (St w (Sta vailab	el) el) tainles inless le wit) bar regulated pressu bar regulated pressu			Ports
	RI FI FR		Regula Filter Filter		ılator							Model Type
		SR NR			Relievi Reliev		(N	ot Ap	oplicable to Filters)			Self / Non Relieving
			MD AD			ual Dr Drain		(Nc	ot Applicable to Regu	lators)		Drain Option
							No	omin	nal		Actual	
				02 04 06 08 10		58 p 87 p 116	osi / 2 ba osi / 4 ba osi / 6 ba psi / 8 b psi / 10	ır ır Dar	(Not Applicable to Filters)	0.4 - 58 ps 2.9 - 87 ps 3.6 - 116 p	i / 0.03 to 2 bar i / 0.03 to 4 bar i / 0.20 to 6 bar si / 0.25 to 8 bar si / 0.40 to 10 bar	Output Regulated Pressure
			XI5 Micron ElementX320 - 30 Micron Element(Not Applicable to Regulators)X440 - 50 Micron Element					gulators)	Filter Element			
						NO K6	LETTE	ER	NPT Ports BSPP Ports			Option
							NO L K39 K84 K94	ET1	'∕₄" Gauge P Plugged for			Gauge Options
								NO KI0		Key Adjustmen Plastic Button A		Option
										Regular Drain S Knurled Drain S		Option
									NO LETTER 02	l (Standard) High Flow		High Flow

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Dimensional Drawings

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



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



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



All dimensions in mm

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SCHEMATIC

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SH Air Preparation Unit Manual Drain



SH Air Preparation Unit Manual Drain





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e to ensure that every product w nd reliability. We are third party 01:2008. Functional test certificat d copies of original mill certificate ty are available on request, to BS 2. We reserve the right to make or tigens and desting new without per rtificates, providing t, to BS EN 10204 3.

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Dimensional Drawings

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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We are rd part

SH

Air Preparation Unit Manual Drain

SH Air Preparation Unit Manual Drain





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Dimensional Drawings

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



Example Code - SHI2-FR-SR-AD-10-X3



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



All dimensions in mm

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tificates, providing to BS EN 10204 3

SCHEMATIC



SH Air Preparation Unit Auto Drain











SCHEMATIC

LVE LIMIT:



SH - Air Preparation Unit Dimensional Drawings

Dimensional Drawings

Example Code - SH06-F1-MD-X3



VADE LIMITS

SCHEMATIC

SCHEMATIC

SCHEMATIC

VALVE LIMIT



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SH Air Preparation Unit Filter Manual Drain

Example Code - SH12-F1-MD-X3



Example Code - SH06-RI-SR-I0



All dimensions in mm

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SH Air Preparation Unit Filter Manual Drain





Regulator Manual Drain

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Dimensional Drawings

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Example Code - SHI2-RI-SR-I0









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Gauge Options

SC - Compact Air Preparation Unit





- **XI0** 10 bar - 40mm Gauge.
- XII 10 bar - 40mm Glycerine Filled Gauge.
- XIOPB 145 psi / 10 bar 40mm Dual Gauge.
- XIIPB 145 psi / 10 bar 40mm Dual Glycerine Filled Gauge.

SH - Air Preparation Unit

(316L stainless steel case as standard).





(316L stainless steel case as standard).

10 bar - 50mm Gauge. **X5 X**8 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.



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Additional Options

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





Bug Vent

LI5 Viton / 316L Stainless Steel Bug Vent.

(Not Applicable to SH Filters)

(Not Applicable to SH19 and SH25)

Mounting Options

SH - Air Preparation Unit



Mounting Option (Not Applicable to Filters)

L8 Panel Mount Kit

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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)

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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 Al Biolog novacus are nanufactured to a most stringent QA programme to ensure that every product will give optimus performance and reliability. Was entited party certified to BS EN ISO 9001:2008. Functional test certificate, letter of conformity and cosine of original mill certificates, providing total strateability are svaliable on request, to BS EN 1020-8.11. In the sworffictures and devine mer, withmat prior protein



Mounting Options

Bifold®

SH - Air Preparation Unit





BugVent LI60 Bracket

(Only Applicable to SH19 and SH25)

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Notes



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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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Quality Assurance

All Bifold 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 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.

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Bifold, Bifold Fluidpower, Bifold Subsea, Marshalsea Hydraulics and Bifold Orang are all members of the Bifold Group.

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