spirax /sarco

Stainless Steel Direct Operated Pressure Regulator SRV2S

The SRV2S is a compact, stainless steel, direct acting pressure reducing valve for steam or gases such as compressed air. All wetted parts are constructed in 316L stainless steel.

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Model SRV2S Image: Sizes 1/2", 3/4", 1" Sizes 1/2", 3/4", 1" Connections NPT Construction Stainless Steel Options Flanged ANSI 150. Ductile Iron Body Material see BRV2 TIS 3.107

Typical Applications

Sterilizers, autoclaves, humidifiers, culinary steam supplies, and other equipment requiring reduced pressure to operate.

Construction Materials							
No.	Part	Material	Material Spec.				
1	Spring Housing	Aluminum	LM6-Electroles	s Nickel Finish			
2	Adjustment Hand Wheel	Plastic	Mineral Reinfor	ced Nylon			
3	Top Spring Plate	Cast Iron	DIN 1691 GG 20	Electroless Nickel Finish			
4	Pressure Adjustment Spring	Silicone Chrome Spring Steel	BS 2803 685 A5 Range 2-Electro	5 oless Nickel Finish			
5	Bellows Assembly	Stainless Steel	316Ti/316L				
6	Bellows Assembly Gasket	Reinforced Exfoliated Graphite					
7	Hexagon Bolt	Stainless Steel	BS 6105 A 270				
8	Body	Stainless Steel (Electropolish Finish)	ASTM A 351 CF	= 3M			
9	Guide Bush	Graphite Filled PTFE					
10	Pushrod	Stainless Steel	ASTM A 276 31	6L			
11	Valve Seat	Stainless Steel	ASTM A 351 CF	- 3M			
12	Valve Seat Gasket	Stainless Steel	BS 1449 316 S1	11			
13	Valve	Stainless Steel	316L				
14	Valve Return Spring	Stainless Steel	BS 20056 316 S	642			
15	Strainer Screen	Stainless Steel	BS 1449 316 SH	4			
16	Bottom Cap	Stainless Steel	ASTM A 276 31	6L			
17	Bottom Cap Gasket	PTFE					
18	Spring Range Identification Plat	te	Plastic	Polypropylene			
19	Bulkhead Plate	Stainless Steel	AISI 316L				
20	Tamperproof Pin	Mild Steel-Copper Plated					
21	Washer	Stainless Steel	316L				
22	Drive Spindle	Carbon Steel	BS 970 230 M07	-Electroless Nickel Finish			



Limiting Operating Conditions

Body design conditions	PN25				
Maximum design pressure	362 psig@248°F (25barg @ 120°C)				
Maximum design temperature	413°F@275 psig (212°C @19barg)				
Minimum allowable temperature	32°F (0°C)				
Maximum operating pressure	275 psig (19 barg)				
for saturated steam service					
Maximum operating temperature	413°F@275 psig (212°C @19barg)				
Ainimum operating temperature 32°F (0°C)					
Note: For lower operating temperatures of	e: For lower operating temperatures consult Spirax Sarco				
Maximum downstream reduced pressure	125 psig (19 barg)				
Maximum differential pressure	275 psig (19 bar)				
Maximum recommended turndown ratio 10:1 at maximum flow					
Designed for a maximum cold hydraulic test pressure of 551 psig (38 barg)					
Note: With internals fitted, test pressure must not exceed 275 psig (19 barg)					

Downstream Pressure Ranges

For the following downstream pressures, three color-coded springs are available. Where the pressures overlap, use the lowest pressure spring to give the downstream pressure required:

Grey: 2 to 25 psig	Green: 20 to 60 psig	Orange: 50 to 125 psig
0.14 to 1.7 barg	1.4 to 4.0 barg	3.5 to 8.6 barg

Pressure/temperature limits



The product **must not** be used in this region

Dimensions (nominal) in inches and millimeters							
Size	Α	с	D	E Vithdrawa Distance	Weight		
1/2"	3.3	2.4	5.1	1.0	3.3 lb		
	83	62	130	25	1.5 kg		
3/4"	3.8	2.4	5.1	1.0	3.5 lb		
	96	62	130	25	1.6 kg		
1"	4.3	2.4	5.1	1.0	3.8 lb		
	108	62	130	25	1.7 kg		

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only. In the interests of development and improvement of the product, we reserve the right to change the specification.

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Regulators

Stainless Steel Direct Operated Pressure Regulator

Capacities - Saturated steam capacities in lb/h

Full lift capacities for safety valve sizing are shown below:



How to use the chart

The curved lines labelled 30, 45, 60, etc., represent upstream pressures. Downstream pressures are read along the vertical line on the left hand side of the chart.

Example: Required, a reducing valve to pass 160 lb/h reducing from 150 to 60 psi. From the downstream pressure of 60 on the left hand side of the chart extend out horizontally until the line meets the curved 150 psi upstream line. At this point, read vertically downward where it will be seen that 1/2" SRV2S will be required

Installation and Maintenance

The valve should be installed in a horizontal pipeline with the direction of flow as indicated by the arrow on the valve body. When the required set pressure has been achieved, the tamper proof pin may be used to prevent further pressure adjustments. Any strainer fitted upstream of the SRV2S, and the strainer screen fitted inside the valve should be cleaned regularly so that the flow to the valve is not restricted. Full Installation and Maintenance Instructions are supplied with each product. (IM-P186-03)

Sample Specifications

Pressure reducing valve shall be direct operated type with all 316L wetted parts. Reduced pressure shall be adjustable, by hand, and a tamper proof device included to prevent further adjustment.







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