

# spirax /sarco®

### **Direct Operated Pressure Regulator BRV2**

The BRV r is a direct acting pressure reducing valve suitable for steam or gases, such as compressed air.

Model ➪	BRV2S
Sizes	1/2" , 3/4", 1"
Connections	NPT
Construction	Ductile Iron
Options	BRV2B with phosphor bronze/brass bellows assembly BRV2SP & BRV2SB optional types with external pressure sensing

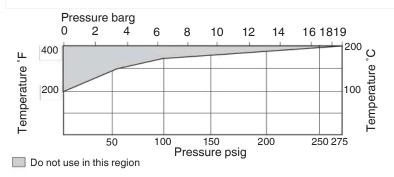
Ī	CONSTRUCTIONATERIALS									
	No.	Part	Material	Material Spec.						
	1 2	Spring Housing	Aluminum Epoxy Coated	LM 24						
1	3 4 Adjustment Hand Wheel		Mineral Reinforced Nylon	T-100						
	5 6	Top Spring Plate	Cast Iron	DIN1691 GG 20						
		Pressure Adjustment	Silicone Chrome	BS 2803 685 A55						
U	78	Spring	Spring Steel	Range 2						
ľ	9	Bellows Assembly Option	Stainless Steel	316Ti/316L						
		Bellows Assembly Gasket	Phosphor Bronze/Brass							
		Bellows Assertibly dasket	Stainless Steel Reinforced							
0		Spring Housing Bolts	Exfoliated Graphite	D0 0000 0 0 0						
	8 1	APPRO 1	Steel-Zinc plated	BS 3692 Gr 8.8						
	9-6	Body - Screwed & FlangedS	M8 x 25 mm	DIN 1693 GGG40.3						
	-	Guide Bush		DII 1000 GGG-10.0						
	10		Graphite Filled PTFE	ASTM A276 Gr 316L						
	10	Pushrod	Stainless Steel							
-15	11	Valve Seat	Stainless Steel	BS 970 431 S29						
THE REAL PROPERTY.	12	Valve Seat Gasket	Stainless Steel	BS 1449 316 S11						
	13	Valve	Stainless Steel	AISI 420						
	14	Valve Return Spring	Stainless Steel	BS 20056 316 S42						
100	15	Strainer Screen	Stainless Steel	BS 1449 316 SH						
	16	Spring Range	Polypropylene Stainless							
	4-7	Identification Disc	Steel							
	17	Bulkhead Plate	Mild Steel - Copper Plated	316L						
	18	Tamperproof Pin	AND DOMESTICS							
	19	Blanking Plub	Stainless Steel	BS970 431 S29						
	20	Compression Fitting	Brass							

LIMITING PERATING CONDITIONS TEAMORGAS

Max. Upstream Pressure

Max. Downstream 2 Max. Downstream Pressure ۱۱۵ psig(۸. • barg) Max. Operating Temperature ٤١٠°F(۲١٠°C) 

Shutoff ANSI Class IV



#### DOWNSTREARMESSUR**R**ANGES

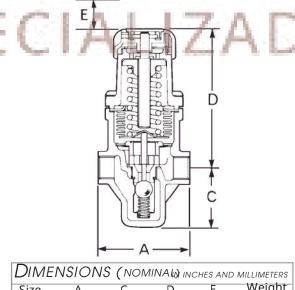
Forthe following downstream pressures , three color-coded springs are available . Where the pressures overlap ause the lowest pressures pring to give the downstream pressure required :

Green: ۲۰ to ۲۰psig Orange: o · to ۱۲۰ psig Grey: ۲ to ۲0 psig ۱.٤ to ٤.٠ barg ٠.١٤ to ١.٧ barg

۳.٥ to ۸.٦ barg

TYPICAL

APPLICATIONS Small steam or gas pressure reducing applications.



Size	Α	С	D	Е	Weight
				ithdrawa Distance	ıl
١/٢٠	٣.٣	۲.۲	٥.٠	١.٠	۳. ٤ lb
	۸۳	00	177.0	70	۱. ٥٥ kg
٣/٤-	٣.٨	۲.۲	٥.٠	١.٠	۳.٦lb
	٩٦	00	177.0	70	۱.٦٥ kg
١"	٤.٢٥	۲.۲	٥.٠	١.٠	٤.٢lb
	١٠٨	00	177.0	70	۱.۹۰ kg

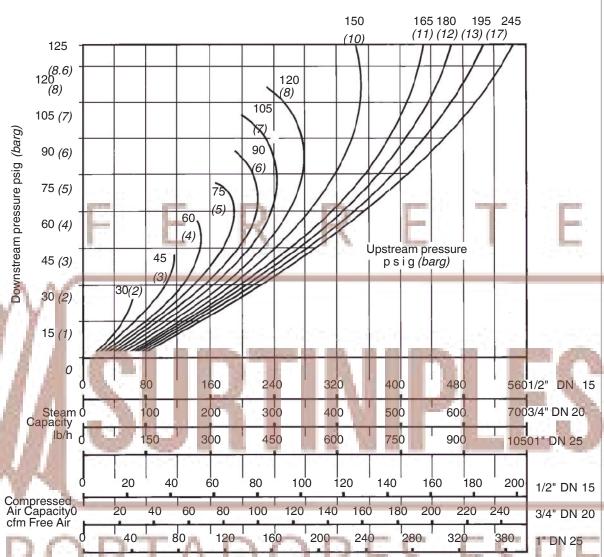
Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only In the interests of development and improvement of the product, we reserve the right to change the specification 0.797 0.797

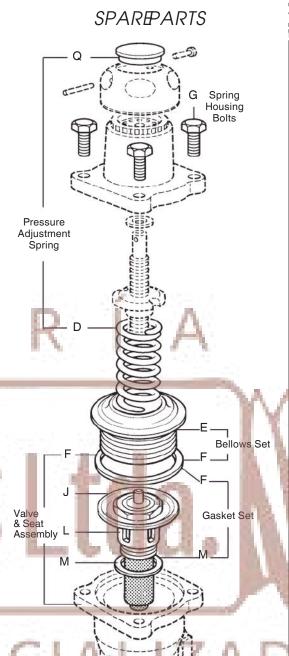
## **Direct Operated Pressure Regulator**

CAPACITIES aturated steam capacities in Ib/h

Full lift capacities for safety valve sizing are shown below:

	1/2" (DN15)	3/4" (DN20)	1" (DN25)
Cvs (Kvs)	1 . 8 (1.5)	2 . 9 (2.5)	3 . 5 (3.0)





HOW TO USE THE CHART

The curved lineslabelled ۳۰، ٤٥، ٦٠، 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 \frac{1}{2}. Ib /h reducing from \frac{1}{2}. to \frac{1}{2}. psi. From the down the spare Parts stream pressure of won the left hand side of the chart extend out horizontally until the line meets the curved vor psi upstream line. At this point, read vertically downward wheredrawn in broken line are not supplied as it will be seen that \/\tau' BRV\f will be required.

INSTALLATION AIM DINTENANCE

The valve should be installed in a horizontal pipeline with the direction of flow as indicatorion ed by the arrow on the valve body.

When the required set pressure has been achieved, the tamper proof pin may be used ressure Adjustment Spring prevent further pressure adjustments.

Any strainer fitted upstream of the BRV<sub>Y</sub>S, and the strainer screen fitted inside the valve<sub>et of all gaskets</sub> should be cleaned regularly so that the flow to the valve is not restricted. Full Installation mmon to all sizes and Maintenance Instructions are supplied with each product.

When external pressure sensing is used, remove the blanking plug (١٩) and fit the \size. type and pressure range of the reducing valves \size. When external pressure sensing is used, remove the blanking plug (19) and fit the should be connected into the downstream pipework at least \m downstream from the BRV\(\text{Reducing Valve}\) valve. For more detail, see Installation and Maintenance Instructions.

Phosphor Bronze /Brass ♦Spring Housing Cap Screw (set of ٤)  $D_iQ$ F،M

**AVAILABLE SPARE** Valve and seat assembly

\*Bellows (Stainless Steel

Always order spares by using the description given in the column headed Available Spare and stating the

TI-3-107-US 07.97

F, M, L, I

Spirax Sarco, Inc., 1150 Northpoint Blvd, Blythewood, SC 29016

Telephone:(803) 714-2000 FAX (803) 714-2222