

REDUCING VALVE FOR STEAM

MODEL SCOS-16/SCOSR-16 **BRONZE**

COMPACT PRESSURE REDUCING VALVE WITH SHOCK-ABSORBING SPHERICAL PISTON

Features

Technologically-advanced compact pilot operated pressure reducing valve for accurate control in process steam systems.

- 1. Self-aligning shock-absorbing spherical piston and advanced pilot regulator designs maintain secondary steam pressure accuracy, even during adverse process conditions.
- 2. Major internal components made of stainless steel for long service life.
- 3. Large surface area integral screen for pilot valve extends trouble-free service.
- 4. Internal secondary pressure-sensing channel makes external sensing lines unnecessary.
- 5. SCOS-16 has a built-in separator, with condensate separation efficiency as high as 98%, a self-modulating free float steam trap and a large screen to protect the main valve.



Specifications

Model	SCOS-16	SCOSR-16		
Connection	Screwed			
Size	¹/₂″, ³/₄″, 1″			
Body Material	Bronze			
Maximum Operating Pressure (barg) PMO	16			
Maximum Operating Temperature (°C)TMO	220			
Primary Pressure Range (barg)	2-16			
Adjustable Pressure Range	Within 10 – 84% of primary pressure but with a minimum pressure of 0.3 barg			
(all conditions must be met)	Differential pressure between 0.7 – 8 bar			
Minimum Adjustable Flow Rate	10% of rated flow rate			
Special Features	Built-in cyclone separator and steam trap	_		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS):

1 bar = 0.1 MPa

Maximum Allowable Pressure (barg) PMA: 16

Maximum Allowable Temperature (°C) TMA: 220



To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the secification range. Local regulations may restrict the use of this product to below the conditions quoted.

Cv & Kvs Values

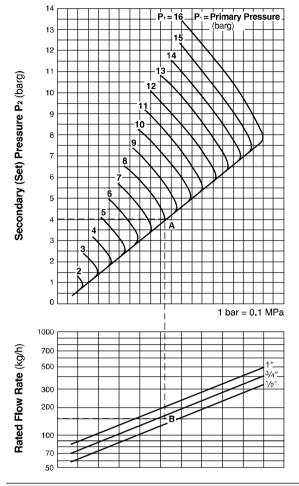
	Nominal Valve Size					
	1/2"	3/4"	1″			
Kvs (DIN)	1.0	1.3	1.5			
Cv (UK)	1.0	1.2	1.5			
Cv (US)	1.2	1.5	1.8			

CAUTION

The Cv & Kvs values shown are for the valve in the full fail open position. These values are not to be used for SCOS/SCOSR sizing, and instead may be used as one of the factors in calculations for safety valve selection.



Sizing Chart



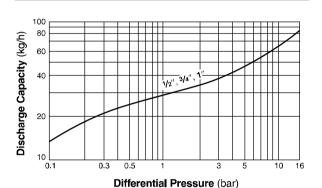
Consulting & Engineering Service

Sizing Example

For primary pressure of 10 barg, set pressure 4 barg, and saturated steam flow rate 150 kg/h select an appropriate size.

- Locate intersecting point A of 10 barg primary pressure and 4 barg set pressure. Go to point A and down until 150 kg/h, point B, is reached.
- Since point B is located between ½" and ¾", the larger size, ¾", should be chosen.

Trap Discharge Capacity (SCOS-16)



1 bar = 0.1 MPa

Note: 1. The discharge capacity is the maximum continuous condensate discharge 6 $^{\circ}\text{C}$ below saturated steam temperature.

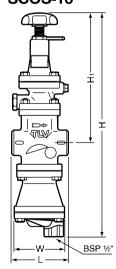
2. The differential pressure is the difference between the SCOS/SCOSR inlet and the trap outlet pressure.



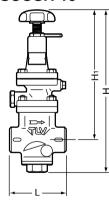
DO NOT use this product under conditions that exceed maximum differential pressure, as condensate backup will occur!

Dimensions

SCOS-16



SCOSR-16



SCOS-	(m m)				
Size	L	Н	H₁	W	Weight (kg)
1/2"					
3/4"	100	400	235	88	7
1″					

^{*} BSP DIN 2999, other standards available

SCOSR-16 Screwed* (r Size L H H1 Weight (kg) ½" 3/4" 100 290 232 5,5

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TLV_® CO., LTD. Kakogawa, Japan is approved by LR0.A Ltd. to ISO 9001/14001







(mm)

^{*} BSP DIN 2999, other standards available