

SURPLUSSING VALVE FOR STEAM

MODEL SP-COSR-16

Features

Pilot operated surplussing valve to rapidly and accurately release excess pressure from steam equipment. Ideal for flash steam recovery systems.

- The patented self-aligning and shock absorbing spherical piston ensures high accurracy of control.
- 2. Suplus steam is released with high responsiveness.
- Proportional regulator with extremely small P-offset.
- 4. Pilot valve protected by fine mesh screen.
- 5. Internal pressure sensing channels make external sensing lines unnecessary.
- 6. Wide pressure range and large capacity.
- 7. Major internal components made of stainless steel.



Specifications

Model	SP-COSR-16		
Connection	Screwed	Flanged	
Size (mm)	15, 20, 25, 32, 40, 50		
Body Material	Cast Iron (FC250)		
Maximum Operating Pressure (MPaG) PMO	1.57		
Maximum Operating Temperature (℃) TMO	220		
Minimum Adjustable Flow Rate	5% of Rated Flow Rate		
Pressure Setting Range (MPaG)	0.1–1.0		
Valve Seat Leak Rate	max. 0.05% of Rated Flow Rate		
Shutoff Pressure (MPaG)	max. 0.02		
Offset (MPaG)	max. 0.03		

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 1.57

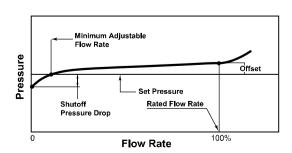
1 MPa = 10.197 kg/cm²

CAUTION

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

Flow Characteristics

Maximum Allowable Temperature (°C) TMA: 220

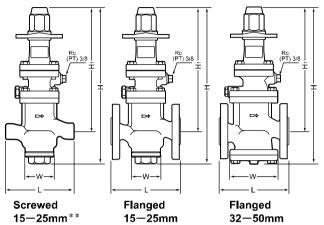




Consulting & Engineering Service

Dimensions

• SP-COSR-16

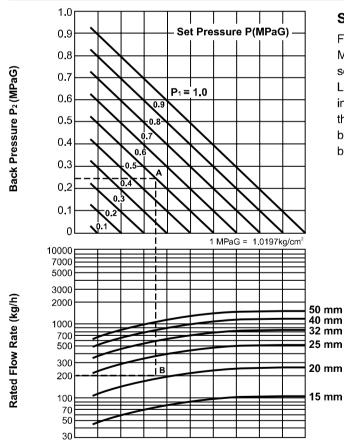


SP-COSR-16		Screwed*		(mm)			
	Size	L	Н	H ₁	W	Weight (kg)	
	15	175	175		220		9
	20		392	320	93	9.5	
	25	190		317		11	
	32	000	407	207	400	15	
	40	220	427	337	126	16	
	50	260	447	350	157	21	

SP-COSR-16		Flanged*			(mm)		
	Size	L	Н	H ₁	W	Weight (kg)	
	15	150	392	320		10	
	20	155		320	93	11	
	25	160		317		13	
	32	190	32	407	227	100	18
	40		427	337	126	19	
	50	220	447	350	157	26	

^{*} Screwed: Rc (PT), flanged: JIS 10/16K, other standerds available

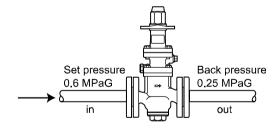
Sizing Charts



Sizing Example

For a set pressure of 0.6 MPaG, back pressure of 0.25 MPaG and a saturated steam flow rate of 200 kg/h, select an appropriate size.

Locate intersecting point A of 0.6 MPaG and 0.25 MPaG in the upper graph and go down until 200 kg/h, point B in the lower graph is reached. Since point B is located between 20 mm and 25 mm, the large size, 25mm should be chosen.



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Manufacturer

Kakogawa, Japan is approved by LRQA Ltd. to ISO 9001/14001





^{**} Shape of 32—50 mm base same as flanged 32—50mm