

## REDUCING VALVE FOR STEAM

### Model: COSR-3/COSR-16 (Self-actuated Pressure Reducing Valve with Shock-Absorbing Piston)

#### Features

Technologically advanced 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 line unnecessary.
5. COSR-16, sizes 65 mm and larger have a silencer for noise reduction.



#### Specifications

Model	COSR-3		COSR-16	
Connection	Screwed	Flanged	Screwed	Flanged
Size (mm)	20, 25	20 - 50	15 - 50	15 - 150
Body Material	Cast Iron			
Max. Operating Press. (MPaG) PMO	0.3		1.6	
Max. Operating Temp. (°C) TMO	220			
Primary Pressure Range (MPaG)	0.1 - 0.3		0.2 - 1.6	
Adjustable Pressure Range (all conditions must be met)	0.01 - 0.05 MPaG		Within 10-84% of primary pressure but with a minimum pressure of 0.03 MPaG	
	-		Differential Pressure between 0.07 - 0.85 MPa	
Minimum Adjustable Flow Rate	5% of rated flow rate		5% of rated flow rate (For 65 mm - 150 mm : 10% of Rated flow rate)	

PRESSURE SHELL DESIGN CONDITIONS (NOT OPERATING CONDITIONS): 1MPa = 10.197 kg/cm<sup>2</sup>

Maximum Allowable Pressure (MPaG) PMA: 1.6

Maximum Allowable Temperature (°C) TMA: 220

**CAUTION :** To avoid abnormal operation, accidents of 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.

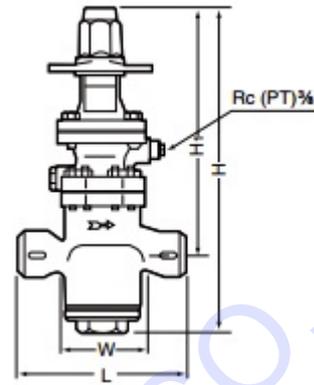
## Dimensions

### COSR-3 / COSR-16 Screwed\* (mm)

Size	L	H	H1	W	Weight (kg)
15**	175	357	285	88	8.5
20					9
25	190		282	93	10
32	220	385			
40			14		
50	260	412	315	157	20

\*Rc(PT), other standards available

\*\* COS-16 only



### COSR-3 / COSR-16 Flanged (mm)

Size	L				H	H1	W	Weight* (kg)
	ASME Class							
	125FF	(150RF)	250RF	(300RF)				
(15)**	-	170	-	170	357	285	88	[9.5]
(20)	-	182	-	182				[11]
25	176	188	188	192	385	302	126	13
32	206	220	220	220				17
40	209		222	224	412	315	157	19
50	247	255	260	261				26
65**	362	372	377	378	554	411	220	55
80**	365	374	383	384				59
100**	434	434	450	450	633	448	265	95
125**			456	456				119
150**	600	600	622	622	810	530	330	205

Note:

Size 15 – 25 shown.

Configuration of larger sizes differs slightly.

( ) No ASME standard exists for cast iron; machined to fit steel flanges

Class 125FF can connect to 150RF, 250RF can connect to 300 RF

Other standards available, but length and weight may vary

\*Weight is for Class 250RF [300RF]

\*\*COS-16 only

