



AIR PRESSURE REDUCING VALVE

MODEL ACOSR-10 DUCTILE CAST IRON
STAINLESS STEEL

SELF-ACTUATED PRESSURE REDUCING VALVE WITH SHOCK-ABSORBING PISTON

Features

Technologically advanced pressure reducing valve for accurate control in compressed air 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.



Specifications

Model		ACOSR-10	
Body Material		Ductile Cast Iron (GGG40.3)	Cast Stainless Steel (A351 Gr.CF8) (equiv. to 1.4312)
Connection		Flanged DIN	Flanged DIN
Size		DN 15, 20, 25, 40, 50	
Maximum Operating Pressure (barg)	PMO	9	
Maximum Operating Temperature (°C)	TMO	100	
Primary Pressure Range (barg)		1 – 9	
Adjustable Pressure Range (barg)		0.5 – 7	
Minimum Differential Pressure (bar)		0.5	
Minimum Adjustable Flow Rate		10% of rated flow rate	
Applicable Fluid*		Air	

* Do not use for toxic, flammable or otherwise hazardous fluids.

1 bar = 0.1 MPa

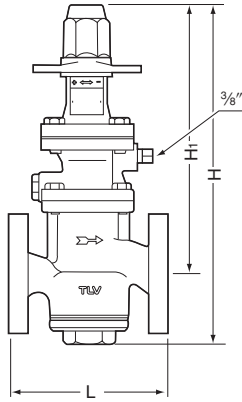
PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 16
Maximum Allowable Temperature (°C) TMA: 220



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

Dimensions

● ACOSR-10 Flanged



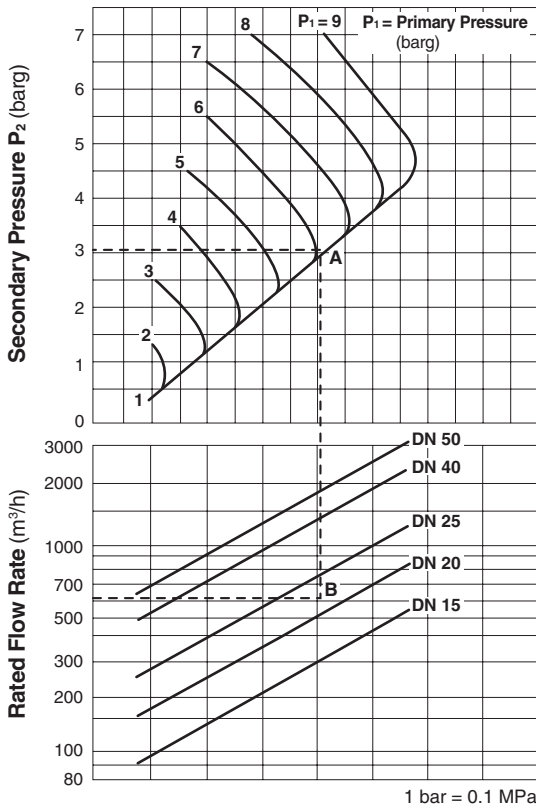
Note: DN 15 - 25 shown.
Configuration of larger sizes differs slightly

ACOSR-10 Flanged (mm)

DN	L		H	H ₁	W	Weight (kg)
	DIN2501	PN25/40				
15	130		357	285	88	10
20	150			282	93	11
25	160		437	302	150	20
40	200					
50	230		470	315	195	35

Other standards available, but length and weight may vary

Sizing Chart



Rated flow rates represent equivalent flow rates of air at 20 °C under atmospheric pressure.

Sizing Example (see sizing chart at left)

For primary pressure of 8 barg, set pressure 3 barg and air flow rate 600 m³/h select an appropriate size.

1. Locate intersecting point A of 8 barg primary pressure and 3 barg set pressure. Go to point A and down until 600 m³/h, point B, is reached.
2. Since point B is located between DN 20 and DN 25, the larger size, DN 25, should be chosen.

Manufacturer
TLV CO., LTD.
Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

