TLV®

DIRECT-ACTING PRESSURE REDUCING VALVE

DR20
A-DR20

Stainless steel construction

Pressure reduction ratio of 30:1

Compact (total height 185 mm)

Light-weight (1.8 kg*)

* 25 mm model

For steam & air

DR20

A-DR20

More stable secondary pressure than with conventional direct-acting reducing valves!

Features

Stainless Steel Construction

The body is constructed of stainless steel to prevent the problems caused by rust and the resultant build-up of scale.

Pressure Reduction Ratio of 30:1

A single DR20 is capable of reduction to minute pressures normally requiring two-stage pressure reduction.

Superior Flow Characteristics

A more stable secondary pressure than with conventional direct-acting reducing valves is maintained through the use of a flat valve.

Fine Pressures Adjustment

The easy to grip handle, which fits comfortably in the hand, and a small-pitch adjusting screw make it possible to make extremely small adjustments in the secondary pressure. The locknut prevents accidental adjustment.

Easy Maintenance

No special tools are required for maintenance. Disassembly is easily performed with readily available tools.

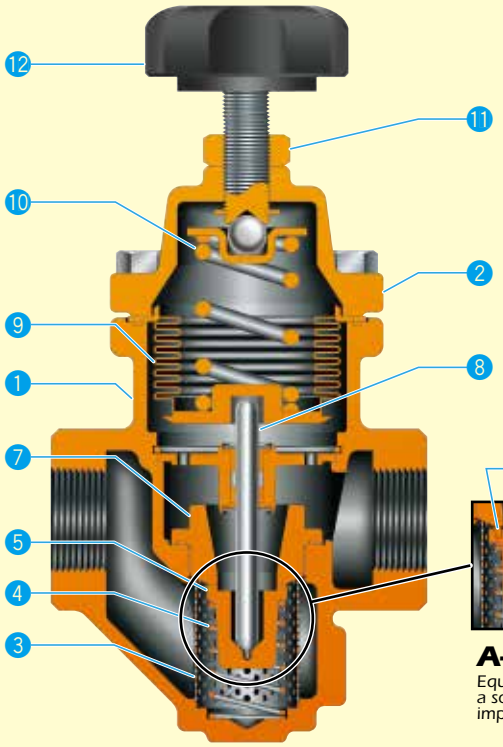
Reusable Gaskets

All gaskets are made of PTFE.

A-DR20: Improved shut-off sealing for use with air

The main valve is equipped with a soft seat (fluorine rubber) to obtain better sealing with dead-end shut-off capability.

Construction



A-DR20
Equipped with a soft seat for improved sealing.

DR20

No.	Description	Material	No.	Description	Material
1	Body	Cast Stainless Steel	7	Valve Seat	Stainless Steel
			8	Valve Stem	Stainless Steel
2	Cover	Cast Stainless Steel	9	Bellows	Stainless Steel
			10	Coil Spring	Stainless Steel
3	Screen	Stainless Steel	11	Locknut	Stainless Steel
4	Coil Spring	Stainless Steel	12	Adjustment Handle DR20: Black A-DR20: White	Stainless Steel/ Plastic
5	Main Valve	Stainless Steel			
6	Soft Seat	Fluorine Rubber			

Specifications

Model	DR20-2	DR20-6	DR20-10	A-DR20-2	A-DR20-6	A-DR20-10
Applicable Fluids*	Steam, Air			Air		
Connection	Screwed					
Size (mm)	15, 20, 25					
Maximum Operating Pressure (MPaG) PMO	1.6			1.0		
Maximum Operating Temperature (°C) TMO	220			100		
Primary Pressure Range (MPaG)	0.2 – 1.6		0.6 – 1.6	0.2 – 1.0		0.6 – 1.0
Adjustable Pressure Range (MPaG)	0.014** – 0.2	0.18 – 0.6	0.54 – 1.0	0.014** – 0.2	0.18 – 0.6	0.54 – 0.9
	Secondary pressure must not exceed 90% of primary pressure					

* Do not use for toxic, flammable, or otherwise hazardous fluids. ** However, not less than 1/30 of primary pressure 1 MPa = 10.197 kg/cm^2

PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (MPaG) PMA: 2.0
Maximum Allowable Temperature (°C) TMA: 220

For installation in horizontal piping (with adjustment handle facing up)

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.

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

ISO 9001
ISO14001

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Specifications subject to change without notice.