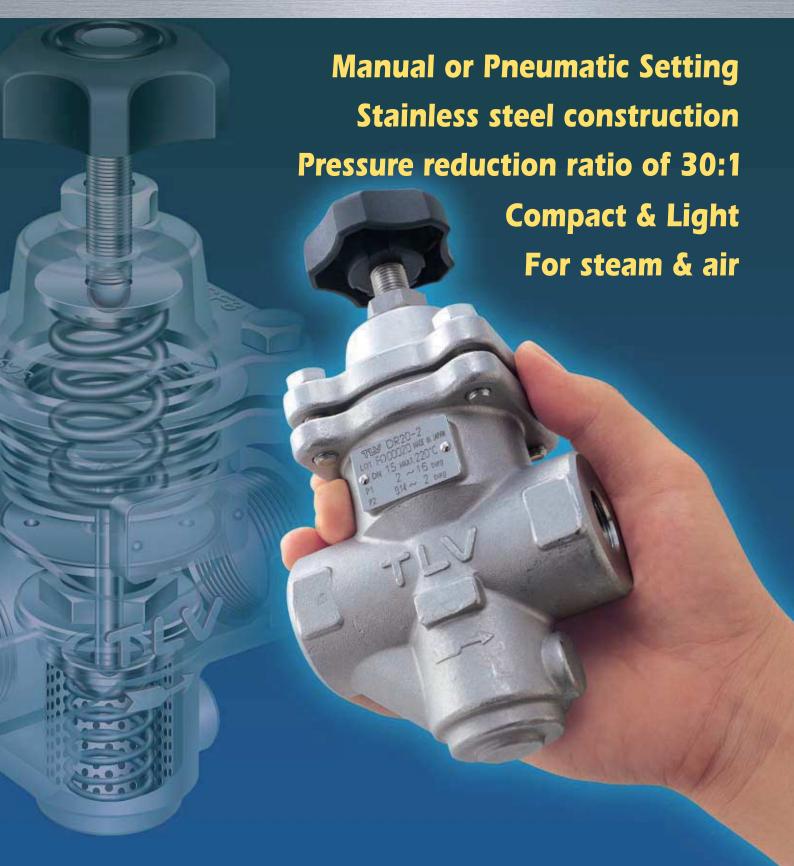


# DIRECT-ACTING PRESSURE REDUCING VALVE

DR20 PN-DR



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

#### **Features**

#### **Manual or Pneumatic Setting**

The DR20 offers manually-set pressure reduction in an extremely compact body. With all the benefits of the DR20, the PN-DR's pneumatic setting function enables remote adjustment of secondary pressure, while the manual setting ensures minimum acceptable set pressure in the event of motive air failure.



#### **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/PN-DR is capable of reduction to minute pressures normally requiring 2-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.



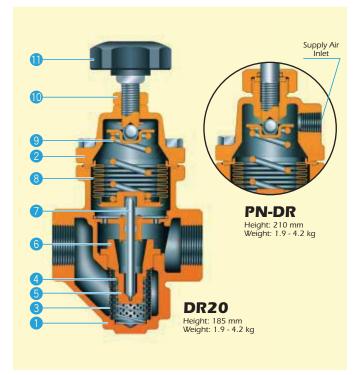
#### **Fine Pressures Adjustment**

For manual setting, 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**

Maintenance and disassembly can be performed with readily available tools. The built-in screen ensures extended trouble-free operation. All gaskets are made of PTFE and are reusable.

### Construction



	No.	Description	Material	No.	Description	Material	
	•	Body	Cast Stainless	6	Valve Seat	Stainless Steel	
			Steel	7	Valve Stem	Stainless Steel	
	2	Cover	Cast Stainless Steel	8	Bellows	Stainless Steel	
				9	Coil Spring	Stainless Steel	
	<b>©</b>	Screen	Stainless Steel	10	Locknut	Stainless Steel	
	4	Coil Spring	Stainless Steel	<b>a</b>	Adjustment	Stainless Steel/ Plastic	
	6	Main Valve	Stainless Steel	W	Handle		

# **Specifications**

Model	DR20-2	DR20-6	DR20-10	PN-DR-2	PN-DR-6		
Setting Method	Manual			Manual/Pneumatic			
Connection	Screwed, Flanged						
Size	½", ¾", 1" / DN 15, 20, 25						
Max. Operating Pressure (barg) PMO	16						
Max. Operating Temperature (°C) TMO	220						
Primary Pressure Range (barg)	2 - 16		6 - 16	2 - 16			
Adjustable Pressure Range (barg)	0.14 - 2, but not less than 1/30 of primary pressure	1.8 - 6	5.4 - 10	0.14 - 2, but not less than 1/30 of primary pressure	1.8 - 6		
	Secondary pressure must not exceed 90% of primary pressure						
Motive Medium	_			Oil-free air, filtered to 5 µm			
Air Supply Pressure Range (barg)	_			0 - 10			
Applicable Fluids*	Steam, Air**			Steam, Air			

<sup>\*</sup>Do not use for toxic, flammable, or otherwise hazardous fluids.

1 bar = 0.1 MPa

\*\*Optional A-DR20 with soft seat (fluorine rubber) for improved sealing is available for air applications.

(Restrictions: PMO / Max. Primary Pressure: 10 barg, Max. Adjustable Pressure: 9 barg, TMO: 100 °C). See A-DR20 data sheet for details. PRESSURE SHELL DESIGN CONDITIONS (**NOT** OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 20

Maximum Allowable Temperature (°C) TMA: 220

To avoid abnormal operation, accidents of serious injury, DO NOT use this product outside of the specification range.

CAUTION Local regulations may restrict the use of this product to below the conditions quoted.

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

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