



DIRECT-ACTING PRESSURE REDUCING VALVE FOR STEAM AND AIR

MODEL DR20

COMPACT STAINLESS STEEL DIRECT-ACTING PRV FOR STEAM AND AIR

Benefits

Extremely compact pressure reducing valve for use on small process equipment.

1. Exceptionally light and compact PRV.
2. Wetted parts are of all stainless steel construction with high durability and corrosion resistance for long service life.
3. Stable secondary pressure.
4. High flow rate for its class.
5. Capable of a 30:1 pressure reduction.
6. Easy to operate and adjust.
7. Built-in screen ensures extended trouble-free operation.
8. Easy, in-line access to internal parts simplifies cleaning and reduces maintenance cost.



Specifications

Model	DR20-2	DR20-6	DR20-10
Connection	Screwed		
Size (in)	1/2, 3/4, 1		
Maximum Operating Pressure (psig) PMO	230		
Maximum Operating Temperature (°F) TMO	428		
Maximum Allowable Pressure (psig) PMA	285		
Maximum Allowable Temperature (°F) TMA	428		
Primary Pressure Range (psig)	30 – 230		85 – 230
Adjustable Pressure Range (psig)	2 – 30, but not less than 1/30 of primary pressure	27 – 85	76 – 150
	Secondary pressure must not exceed 90% of primary pressure		
Applicable Fluids*	Steam, Air		

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

Connections and sizes in bold are standard

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



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.

No.	Description	Material	ASTM/AISI*	JIS
①	Body	Cast Stainless Steel	A351 Gr.CF8	—
②	Cover	Cast Stainless Steel	A351 Gr.CF8	—
③ ^V	Screen	Stainless Steel	AISI430	SUS430
④ ^V	Coil Spring	Stainless Steel	AISI304	SUS304
⑤ ^V	Main Valve	Stainless Steel	AISI420F	SUS420F
⑥ ^{MV}	Valve Seat Gasket	Fluorine Resin	PTFE	PTFE
⑦ ^V	Valve Seat	Stainless Steel	AISI420F	SUS420F
⑧ ^S	Spacer	Cast Stainless Steel	A351 Gr.CF8	—
⑨	Snap Ring	Stainless Steel	AISI304	SUS304
⑩ ^S	Valve Stem	Stainless Steel	AISI303	SUS303
⑪ ^B	Bellows	Stainless Steel	AISI321	SUS321
⑫ ^{MSVB}	Cover Gasket	Fluorine Resin	PTFE	PTFE
⑬	Coil Spring	Stainless Steel	AISI304	SUS304
⑭	Spring Guide	Carbon Tool Steel	A109	SPCC
⑮	Steel Ball	High-Cr Bearing Steel	A485	SUJ2
⑯	Cover Bolt	Stainless Steel	AISI304	SUS304
⑰	Locknut	Stainless Steel	AISI304	SUS304
⑱	Adjustment Handle	Nylon/Stainless Steel	—/AISI304	—/SUS304
⑲	Nameplate	Stainless Steel	AISI304	SUS304
⑳	Retaining Ring	Stainless Steel	AISI304	SUS304
㉑	Retainer	Carbon Tool Steel	A109	SPCC
㉒ ^S	Slide Bearing**	Polymer Resin	—	—
㉓ ^S	Snap Ring**	Stainless Steel	AISI316	SUS316

* Equivalent ** Incorporated with the spacer and must be replaced as a set with the spacer.

Replacement kits available: (M) maintenance parts, (S) repair parts for spacer, (V) repair parts for valve, (B) repair parts for bellows



