

RP-9,10,11 Type Pressure Reducing Valve (for Steam)

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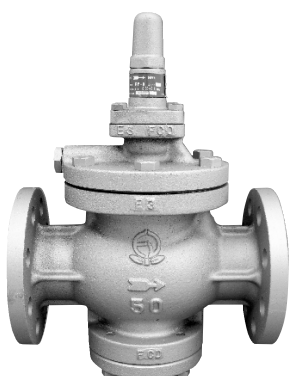
PRESSURE REDUCING VALVES (FOR STEAM)

Pilot operated type pressure reducing valve for high-pressure steam.

This product works stably at maximum pressure reduction ratio 20:1 and high differential pressure.

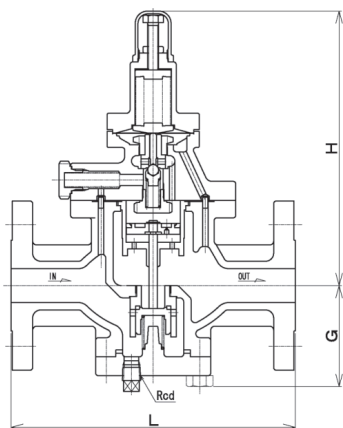
The face-to-face dimensions are the same as those of the former RP-2H Type pressure-reducing valve, but the weight is 40% lighter.

Refer to Page 17 for valve size selection chart.



RP-9 Type

CONSTRUCTION



* 1. The structure may vary depending on material and nominal diameter.

* 2. The materials of main body and dimensions are the same as those of the former RP-2H model.

SPECIFICATIONS

Type	Ductile cast iron	Cast steel	Stainless steel	
Model name	RP-9	RP-10	RP-11	
Code name	RP9-L	RP9-M	RP10-C	
Applicable fluid	Steam			
Fluid temperature	Max. 220°C	Max. 250°C ^{*1}	Max. 250°C	
Applicable primary pressure	Max. 2.0MPa	Max. 3.0MPa		
Adjustable secondary pressure	0.03~0.8MPa ^{*2}			
Maximum reducing rate	20:1			
Minimum pressure differential across the disc	Size 15~80mm: 0.05MPa, Size 100~150mm: 0.07MPa			
Lock up pressure	Max. 0.02MPa			
Offset pressure	Within 0.02MPa (Adjustable secondary pressure 0.03~0.035MPa) Within 0.03MPa (Adjustable secondary pressure over 0.035~0.07MPa) Within 0.05MPa (Adjustable secondary pressure over 0.07~0.8 MPa)			
Leakage allowance	Less than 0.05% of rated flow			
End connection	Flanged JIS 20KRF ^{*3}	Flanged JIS 30KRF ^{*4}		
Materials	Body	Ductile cast iron	Cast steel	Stainless steel
	Disc & seat	Stainless steel		
	Piston & cylinder	Cast bronze	Stainless steel	Stainless steel
Valve body pressure test	1.5 times of flange rated pressure			
Installation	Upright installation on horizontal pipe			

* 1. RP-10T Type for high-temperature steam (Max. 350°C) is also available.

* 2. RP-9N (size 15~80mm: 0.8~1.95 MPa; size 100~150mm: 0.8~1.93 MPa) and RP-10N, 11N Type (0.8~2.0 MPa) for high adjustable secondary pressure are also available.

* 3. Products with JIS 10, 16K flange are available.

* 4. Products with JIS10, 16, 20K flange are available.

DIMENSIONS

RP-9 Type (Body:Ductile cast iron)

(mm)

Size	L	G	H	d	Cv value	Mass(kg)
15(½")	170	77	216	¼"	1	7.5
20(¾")	170	77	216	¼"	2.5	7.5
25(1")	210	77	216	¼"	4	9
32(1¼")	210	96	237	¼"	6.5	12
40(1½")	220	96	237	¼"	9	12.5
50(2")	250	104	247	¼"	16	15.5
65(2½")	290	115	262	⅜"	25	20.5
80(3")	350	122	277	⅜"	36	26.5
100(4")	384	142	342	⅜"	64	60
125(5")	434	192	372	⅜"	100	90
150(6")	544	209	407	⅜"	144	120

Flange code JIS 20KRF

DIMENSIONS

RP-10 Type (Body:Cast steel), RP-11 Type (Body:Stainless steel)

(mm)

Size	L	G	H	d	Cv value	Mass(kg)
15(½")	198	80	217	¼"	1	7.5
20(¾")	198	80	217	¼"	2.5	7.5
25(1")	228	80	221	¼"	4	9
32(1¼")	232	97	238	¼"	6.5	12
40(1½")	248	97	238	¼"	9	12.5
50(2")	280	107	248	¼"	16	15.5
65(2½")	288	119	263	⅜"	25	20.5
80(3")	366	126	278	⅜"	36	26.5
100(4")	426	146	342	⅜"	64	60
125(5")	454	197	372	⅜"	100	90
150(6")	564	216	407	⅜"	144	120

Flange code JIS 30KRF