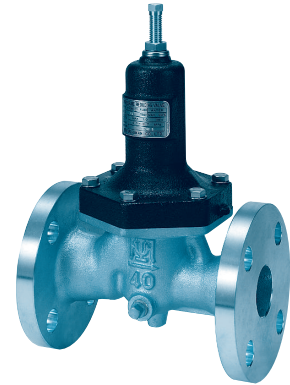


Direct
acting

Type P100-2Y Pressure Reducing Valves

For
liquid

- Low noise valve.
- Made of bronze and/or stainless steel to prevent rusting where there is contact with fluid.
- Built-in strainer (for size 15—100)
- It can be installed in both horizontal and vertical piping
- Negligible influence is exerted by inlet pressure change due to the use of a pressure balancing construction.
- A valve disc made of synthetic rubber ensures tight shut off when closed.
- Tapped hole for connection of the pressure gauge is provided.



1

Pressure Reducing Valves (For liquid)

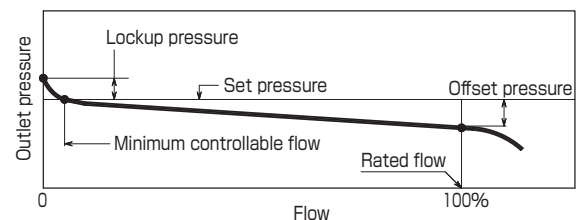
Specifications

Fluid	Size	Pressure (MPa)		Temp. (°C)	Material for main parts				Connection		
		Inlet	Outlet set range		Body	Valve disc & diaphragm	Valve seat	Stem	Gauge connection	Screwed	Flanged
Water & non- corrosive liquid	15—25	0.08 1.0	0.03 —0.15	0 80	Bronze	Synthetic rubber	Bronze	Bronze or stainless steel	JIS Rc ¼ (female)	JIS Rc (female)	—
	32—50		0.1 —0.7						JIS10KFF		
	65・80		0.5 —0.95								
	100		0.03 —0.15 0.2 —0.7								
	125		0.035—0.3 0.2 —0.55								
	150		0.035—0.4								
	15—25	0.08 1.6	0.03 —0.15 0.1 —0.7						JIS Rc ¼ (female)	JIS Rc (female)	—
	32—50	0.5 —1.0							JIS16KFF		

Performance

Size			15—25	32—50	65—100	125	150
Offset	Outlet set range (MPa)	0.03 —0.15	Max. 0.05		Max. 0.07		
		0.1 —0.7	Max. 0.07		Max. 0.1		
		0.5 —1.0	Max. 0.1		Max. 0.15		
		0.035—0.3				Max. 0.07	
		0.2 —0.55				Max. 0.1	
		0.035—0.4					Max. 0.07
Min controllable flow (water)			0.5 ℓ /min	2 ℓ /min	5 ℓ /min		
Lockup pressure			0.02MPa				
Seat leakage			0.01% of rated flow or less				
Min. differential pressure			0.05MPa				

Flow characteristic curve



Cv values

Size	15	20	25	32	40	50	65	80	100	125	150
Cv	1.8	2.6	3.9	6.3	8.3	13	21	26	40	70	109
Max. flow rate (water) ℓ/min	30	55	85	120	150	250	350	450	700	1200	1800

The rated flow shall be smaller between calculated by $C_v \left(Q = \frac{C_v \times \sqrt{\Delta P}}{0.696} \right)$ and maximum flow rate (above table).

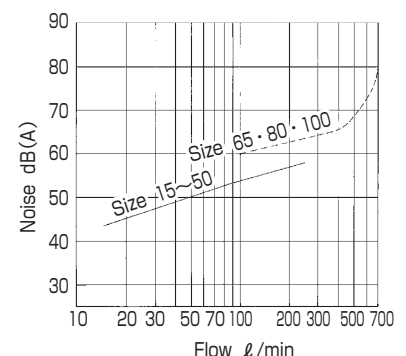
ΔP : differential pressure (kPa)

Noise characteristics

The chart shows an actual noise measurement.

Condition : P1 : 0.6MPa, P2 : 0.2MPa, surrounding noise : 30dB (A), at a point 15cm from valve.

Under different conditions the results will differ.

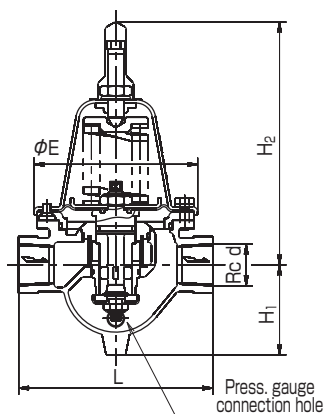


Type P100-2Y Pressure Reducing Valves

Construction

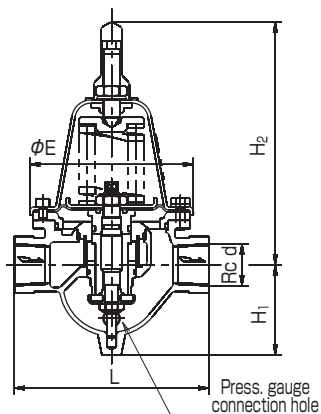
Size 15-25

Inlet pressure 1.0MPa or less



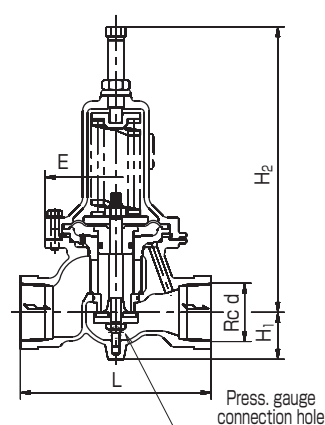
Size 15-25

Inlet pressure 1.6MPa or less



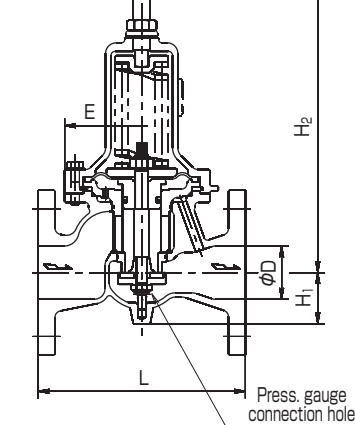
Size 32-50

Screwed

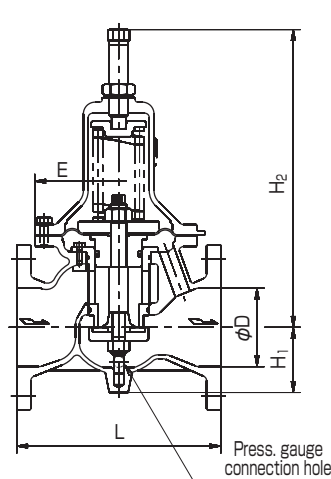


Size 32-50

Flanged



Size 65-150



(mm, kg)

Size	d	D	L			H ₁	H ₂	E	Weights	
			Screwed	Flanged					Screwed	Flanged
				JIS 10K	JIS 16K					
15	1½	—	120	—	—	56	150	100	1.8	—
20	¾	—	120	—	—	56	150	100	1.8	—
25	1	—	125	—	—	52	154	100	2	—
32	1¼	32	165	175	175	40	243	130	5	8.5
40	1½	40	170	190	190	40	243	130	5.5	9
50	2	50	195	195	195	48	292	145	8	12.5
65	—	65	—	215	—	72	325	176	—	21
80	—	80	—	230	—	72	325	176	—	22
100	—	100	—	260	—	83	390	200	—	30
125	—	125	—	310	—	107	488	250	—	67
150	—	150	—	380	—	115	651	320	—	102

Installation

1. Please refer to the following figure for installation.
2. For sizes 125 and 150, it is recommended that a strainer be provided at the inlet of the valve.
3. Following space is required for disassembling and maintenance.

Size	(mm)						
	15-25	32 · 40	50	65 · 80	100	125	150
Above the center of pipe line	210	400	470	500	600	700	1100

