DP-2W Type Pressure Reducing Valve (For Water)

Application

This valve is a direct-acting pressure-reducing valve for cold and warm water; it maintains stable pressure across a wide flow range—from low to high—and is widely used to regulate water supply pressure from high-pressure mains in medium-to-high-rise buildings to individual floors, as well as to regulate supply pressure for systems directly connected to pumps or for boiler feed water.



Screwed type



Flanged type

Features

- Suitable for regulating water supply pressure from high-pressure risers in high-rise buildings to individual floors.
- Compact and lightweight; easy to install.
- Can be installed either horizontally or vertically.
- Maintains constant pressure once set.
- Offers a wide pressure adjustment range and maintains stable flow.
- Allows for maintenance in confined spaces by simply removing the valve bonnet.
- Equipped with an internal spring-loaded orifice to prevent water hammer.
- Features a linear flow path to minimize operational noise.

Specifications

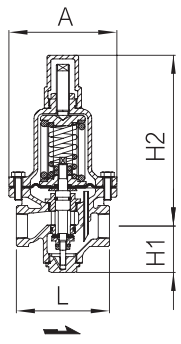
Applicable Media	Water	
Inlet Pressure	1.0MPa below	
Regulate Pressure	Out spring	0.05~0.35MPa
	Inner + outer spring	0.3~0.7 MPa
Max.reducing ratio	10:1	
Mini. pressure difference	0.05 MPa	
Mini. adjustable flow rate	Water 2~5 L / m i n	
Applicable temperature	5~80℃	
Connection	PT(15~25A), JIS 10K/PN16 RF(32~150A)	
Materials	Body : Cast iron, or SUS	
	Disc, Seat : NBR, BC6	
Hydrostatic test	1.5 MPa	

Dimensions

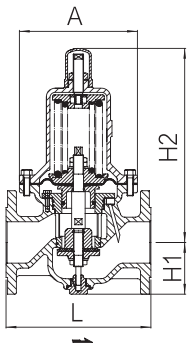
(mm)

Size	L	A	H1	H2	Cv	Weight(kg)
15(1/2")	100	116	50	184	2.9	3.7
20(3/4")	100	116	50	184	3.5	3.7
25(1")	120	142	68	224	6.2	6.9
32(1-1/4")	190	174	81	327	12.8	17.0
40(1-1/2")	190	174	81	327	13.7	17.0
50(2")	190	174	81	327	13.8	18.6
65(2-1/2")	250	228	100	374	40.2	36.3
80(3")	250	228	100	374	41.9	37.4
100(4")	290	250	125	490	64.7	67.0
150(6")	390	340	165	655	109.5	150

Construction

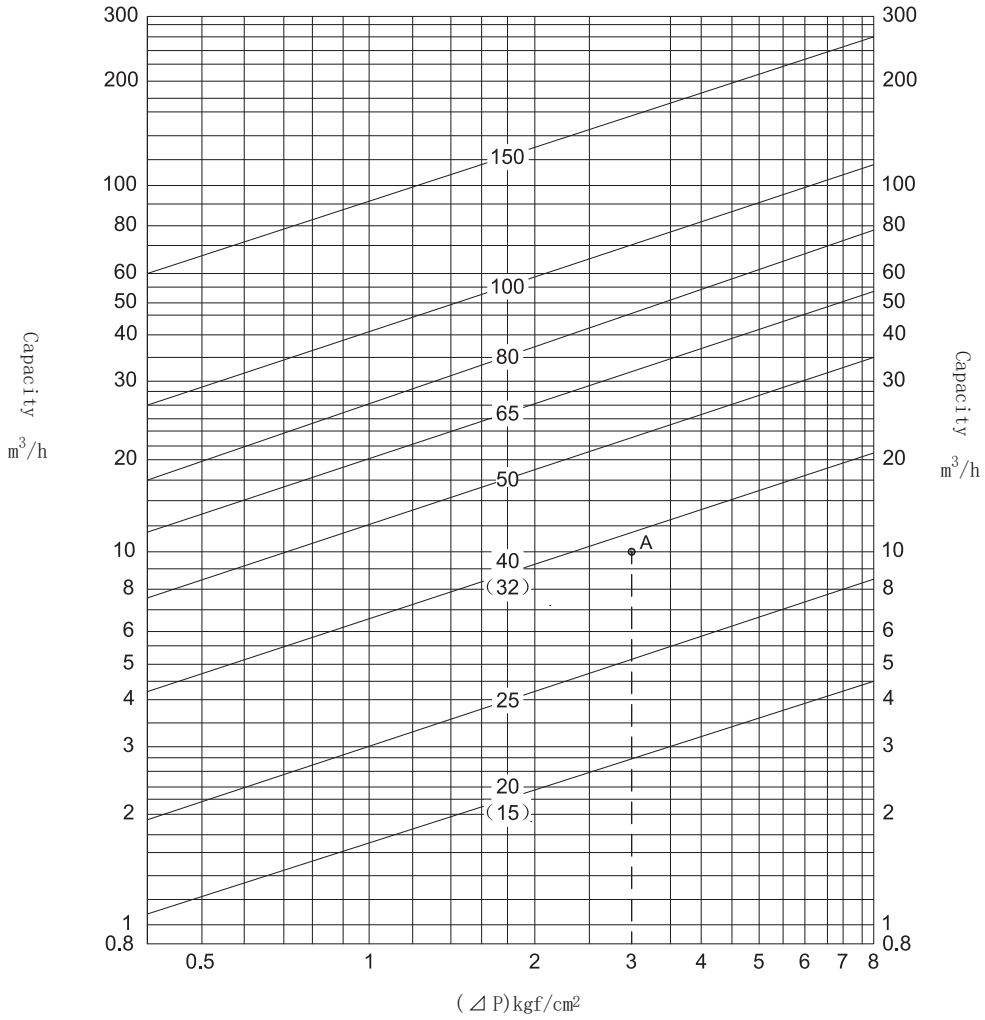


Screwed(15~25A)



Flanged(32~150A)

■ Selection diagram



Model Selection Method Using the Chart

Example: Inlet pressure 5 kgf/cm²g, outlet pressure 2 kgf/cm²g, flow rate 10 m³/h

(1) Inlet pressure is 5 kgf/cm²g and outlet pressure is 2 kgf/cm²g; therefore, the differential pressure (ΔP = P1 - P2) is 3 kgf/cm².

(2) Point A is the intersection of the 3 kgf/cm² differential pressure line and the 10 m³/h flow rate line.

(3) Point A falls between the 25A and 40A sizes; therefore, select 40A.

■ Piping Installation

