

GD-27BP

Direct type	Pilot type	Piston	Diaphragm
Bellows	Internal sensing	External sensing	Stainless steel
With handle	Built-in strainer	Low pressure	Remote
Valve leakage 0	Nylon	By-pass	

JWWA

JWWA approval



■Features

1. Combination of pressure reducing function, by-pass function and stop function that provide saving cost and space.
2. Wetted parts are made of corrosion-resistant material to prevent rusty water.
3. Pressure balance structure can keep the reduced pressure at a constant level without being effected by inlet pressure.
4. Maintenance and inspection can be conducted easily by disassembling the upper side only.

■Specifications

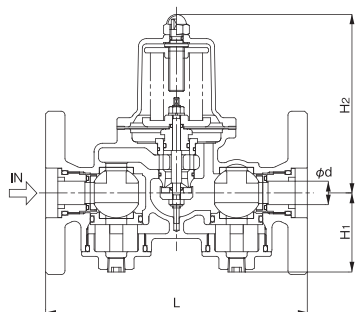
Model		GD-27BP
Nominal size		20-100A
Application		Cold and hot water
Inlet pressure		1.0 MPa or less
Reduced pressure		(A) 0.05-0.35 MPa (B) 0.3-0.7 MPa
Minimum differential pressure		0.05 MPa
Maximum pressure reduction ratio		10:1
Max. temperature		90°C
Material	Body	Cast bronze (NPb-treated)
	Valve seat	Cast bronze (NPb-treated)
	Valve disc	FKM
	Diaphragm	EPDM
Connection		JIS 10K FF flanged
Installation posture		Horizontal or vertical installation is available (For 100A, horizontal piping with upward posture only. See *1 below.)

- Pressure gauge connection port is JIS Rc 1/4.
- Available with pressure gauge.
- Pressure reducing function is set when shipped from our factory.

* 1 Installation posture of 100A

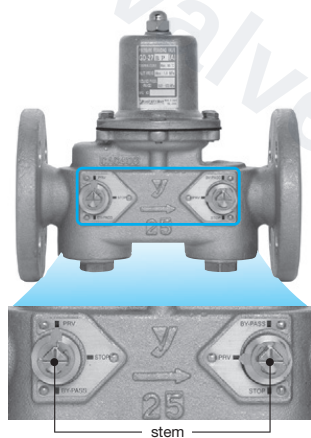
OK	WRONG	
Horizontal piping with upward posture	Horizontal piping with sideways posture	Vertical piping

■ Dimensions (mm) and Weights (kg)



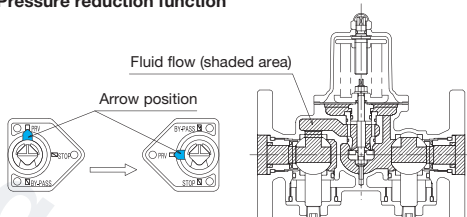
Nominal size	L	H ₁	H ₂	d	Weight
20A	200	61	137	18	6
25A	200	61	137	18	7
32A	245	72	177	28	11
40A	245	72	177	28	12
50A	260	92	186	36	16
65A	328	99	257	45	30
80A	402	112	274	56	38
100A	470	134	328	72	58

■ Function

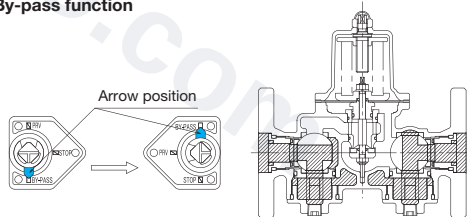


Switching of three functions (pressure reducing function, by-pass function and stop function) is conducted by operating stems at inlet side and outlet side and pointing the arrow at a certain point of the plate. Please refer to the right figure for the arrow position and fluid flow in each function. (The picture is condition of pressure reduction function)

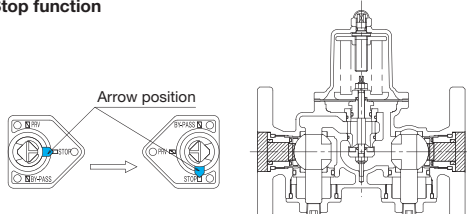
Pressure reduction function



By-pass function



Stop function



Nominal Size Selection

Rated Flow Rate

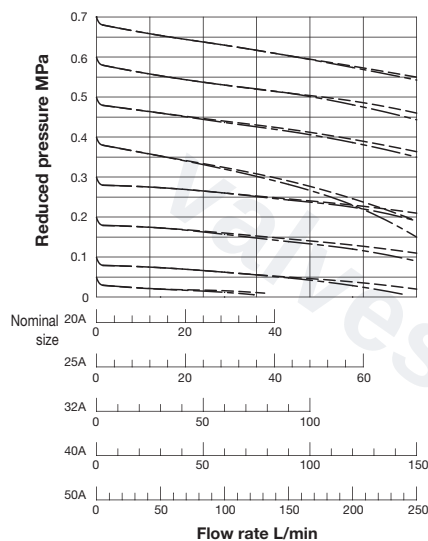
(1) <The differential pressure before and after the valve is 0.15 MPa or more.>

Nominal size	20A	25A	32A	40A	50A	65A	80A	100A
Rated flow rate L/min	40	60	100	150	250	300	450	700

(2) · If the differential pressure before and after the valve is less than 0.15 MPa, select a proper nominal size from the appropriate chart shown below.

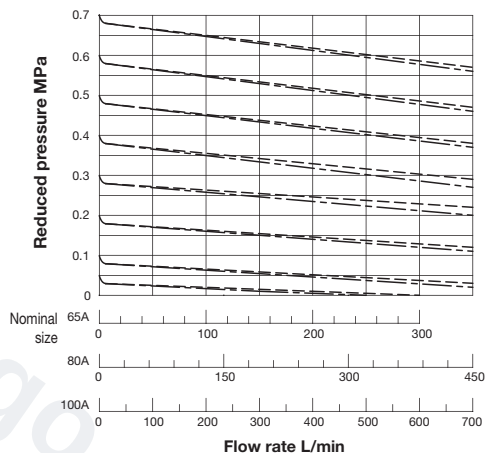
Flow Rate Chart

· Nominal size: 20A to 50A



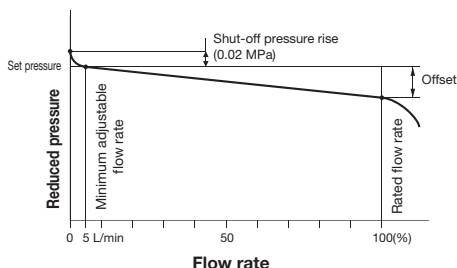
Inlet pressure ——— Reduced pressure+0.1 MPa
 ——— Reduced pressure+0.05 MPa

· Nominal size: 65A to 100A



Inlet pressure ——— Reduced pressure+0.1 MPa
 ——— Reduced pressure+0.05 MPa

Flow Characteristic Chart

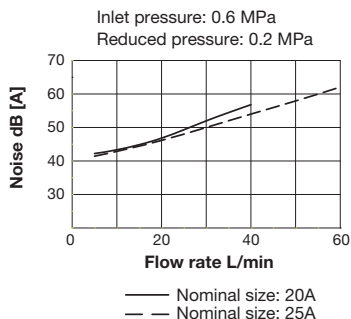


* Offset pressure

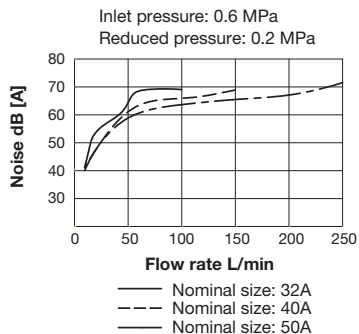
	Pressure range	Offset
A	0.05-0.35 MPa	0.10 MPa or below
B	0.30-0.70 MPa	0.15 MPa or below

Noise Characteristic Chart

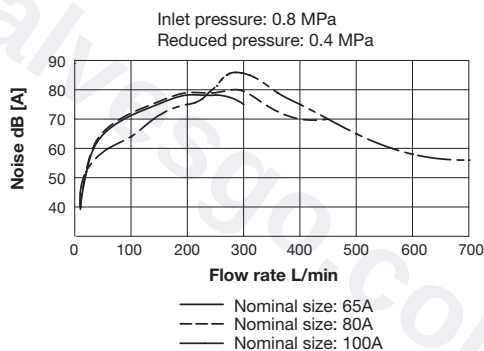
· Nominal size 20-25A



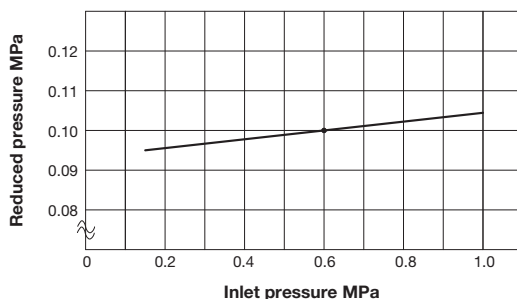
· Nominal size 32-50A



· Nominal size 65-100A



Pressure Characteristic Chart



This chart shows variation in reduced pressure when the inlet pressure of 0.6 MPa is changed between 0.15 MPa and 1.0 MPa after the reduced pressure is set at 0.1 MPa.