GD-7R

Direct type	Pilot type	Diaphragm	Piston
Bellows	Internal sensing	External sensing	Stainless steel
Nylon	Slight pressure	DP regulating	Pressure sustaining



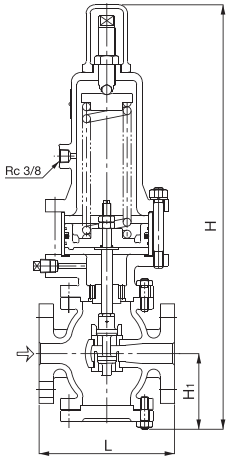
■Features

1. Simple in structure, less prone to fail and easy to maintain.
2. Superior performance especially as relief unit for lubricating oil and heavy oil.

■Specifications

Application		Cold and hot water, Oil, Other non-dangerous fluids	
Nominal size		20A-50A	65A-150A
Pressure regulating range		0.05-0.25 MPa 0.25-0.45 MPa 0.45-0.7 MPa *1	0.05-0.2 MPa 0.2-0.5 MPa 0.5-0.7 MPa *1
Fluid temperature		5-80°C *2	
Valve seat leakage		0.5% or less of rated flow rate	
Fluid viscosity		700 cSt or less	
Material	Body	Cast iron	
	Valve disc, valve seat	Bronze *3	
	Piston	Bronze	
Connection		JIS 10K FF flanged	

*1 Available with the GD-7RH, made of cast steel, with pressure regulating range of 0.7 to 1.6 MPa.
*2 Available with maximum temperature of 120℃.
*3 Available with stainless steel made valve disc and valve seat.

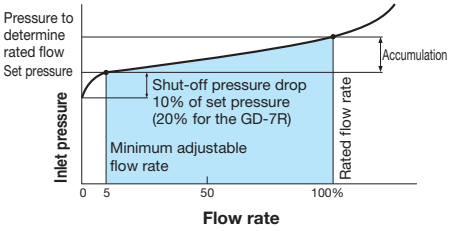


The shapes are slightly different above nominal size 65A.

■Dimensions (mm) and Weights (kg)

Nominal size	L	H	H_1	Weight
20A	170	535	95	20
25A	170	535	95	22
32A	180	545	100	23
40A	180	545	100	23
50A	180	565	110	26
65A	215	680	125	41
80A	260	700	135	51
100A	300	750	160	66
125A	360	810	190	90
150A	382	875	220	129

■Flow Rate Characteristics Chart



Nominal size	Set range MPa	Accumulation MPa
20A-50A	0.05-0.25	Within 0.04
	0.25-0.45	Within 0.06
	0.45-0.7	Within 0.08
	0.7-1.6	Within 0.23
65A-150A	0.05-0.2	Within 0.1
	0.2-0.5	Within 0.14
	0.5-0.7	Within 0.19
	0.7-1.6	Within 0.32

■GD-7R Nominal Size Selection Chart (For Water)

