

GD-7

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		



■Features

1. Simple in structure, less prone to fail and easy to maintain.
2. Insusceptible to effect of inlet pressure fluctuation due to dual valve.
3. Outstanding performance as a pressure reducer for lubricant grease and heavy oil.

■Specifications

Model		GD-7	
Application		Cold and hot water, Oil, Other non-dangerous fluids	
Nominal size		20A-50A	65A-150A
Inlet pressure		0.1-1.0 MPa	
Reduced pressure		(A) 0.05-0.25 MPa (B) 0.25-0.45 MPa (C) 0.45-0.7 MPa	(A) 0.05-0.2 MPa (B) 0.2-0.5 MPa (C) 0.5-0.7 MPa
		70% or less of inlet pressure (gauge pressure)	
Minimum differential pressure		0.05 MPa	
Maximum differential pressure		0.7 MPa	
Maximum pressure reduction ratio		10:1	
Application temperature		5-80°C *1	
Fluid viscosity		700 cSt or less	
Material	Body	Cast iron	
	Valve, valve seat	Phosphor bronze *2	
	Spindle	Stainless steel	
	Piston	Bronze	
Connection		JIS 10K FF flanged	

*1 Available with withstanding up to 120°C.

*2 Available with stainless steel made valve and valve seat.

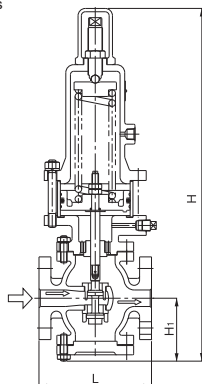
· Available with the GD-7H, made of cast steel, with inlet pressure of 2.0 MPa or less and reduced pressure of 0.7 to 1.4 MPa.

· Valve seat leakage(L/ml)

Nominal size	20	25	32	40	50	65	80	100	125	150
Leakage	0.16	0.2	0.25	0.32	0.4	0.52	0.64	0.8	1.0	1.2

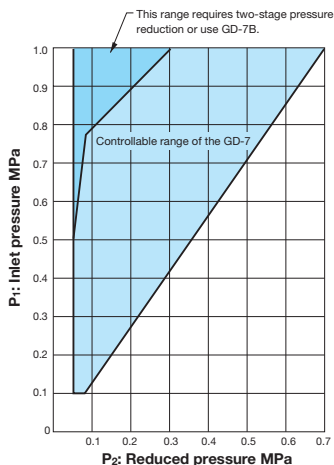
■Dimensions (mm) and Weights (kg)

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



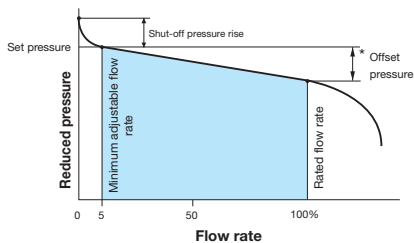
Structure is different depends on nominal size.

Specifications Selection Chart



Flow Characteristic Chart

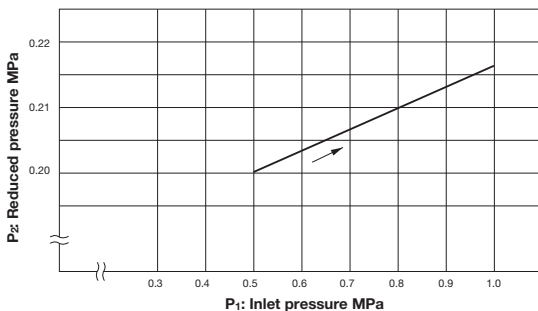
Nominal size	Shut-off pressure rise
20A-50A	Within 10% of set pressure
65A-100A	Within 15% of set pressure
125A-150A	Within 20% of set pressure



* Offset pressure

Nominal size	Offset pressure MPa	
	GD-7	GD-7H
65A-100A	Within 0.08	Within 0.23
125A-150A	Within 0.11	Within 0.18

Pressure Characteristic Chart



This chart shows variation in reduced pressure when the inlet pressure of 0.5 MPa is changed between 0.5 MPa and 1.0 MPa while the reduced pressure is set at 0.2 MPa.

■Nominal Sizes Selection Chart (For Water)

