DP-200,200-N DP-200F,200F-N



			-
Pilot type	Direct type	Piston	Diaphragm
Normally closed	Normally opened	AC coil	DC coil
Stainless steel	110 V / 220 V	Explosion-proof	JWWA
Leak 0			



DP-200



DP-200F

Features

- 1. The shock of water hammer is reduced, and the closing time of valve is shortened.
- 2. Zero leakage due to synthetic rubber used for valve part.
- 3. Usable for wide pressure range of 0-1.0 MPa (0.1-1.0 MPa if the coil set sideways).
- 4. Horizontal and vertical installation. (Within 90 degrees from upward position of the coil)

Specifications

Model	Normally closed	DP-200	DP-200-N	DP-200F	DP-200F-N	
1	Nominal size	10A-50A 15A-50A				
	Structure	Pilot-operated diaphragm type				
	Application	Cold and Hot water, Air, N2 gas, Co2 gas (dry), Ar gas, Oil (20 cSt or less: equivalent to kerosene and light oil)				
Wo	orking pressure	0-1.0 MPa (Unusable under vacuum)				
Min. di	ifferential pressure	0 MPa (0.1 MPa or more is required if the coil set sideways)				
Allowabl	le valve seat leakage	No (by confirming pressure gauge visually)				
Terr	nperature range	5-60°C (no freeze condition)				
Ambi	ient temperature	50°C or less (no freeze condition)				
Inst	allation posture	Vertical or horizontal installation (within 90 degrees from upward position of the coil)				
	Body	Bronze	Bronze	Bronze	Bronze (NPb-treated)	
Material	Valve		(NPb-treated)			
	Diaphragm	NBR				
	Connection	JIS Rc screwed JIS 10K FF flanged			F flanged	

· Available with rubber material FKM for the diaphragm. Max. temperature: 90C° (It can provide only for DP-200, DP-200F)

Specifications of Coil

Rated voltage	AC 100 / 200 V selective type	AC 110 / 220 V selective type		
nated voltage	50 / 60 Hz common			
Nominal size	10-50A			
Allowable fluctuation	Rated voltage –5% to +10%			
Rated current	0.42 / 0.21 A	0.38 / 0.19 A		
Starting current	1.64 / 0.82 A	1.48 / 0.74 A		
Insulation class	Insulation class H			
Protective structure	Dust tight, Splash proof			
Ingress protection code	IP64 (JIS C0920)			
Insulation resistance	50 MΩ and more / 500 V megger			
Withstand voltage test	1500 V/min			
Removing lead wire	Conduit G 1/2 (CTG 16)			

* Available with a terminal box.

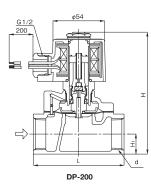
Dimensions (mm) and Weights (kg)

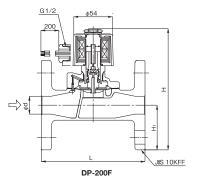
· DP-200, DP-200-N

Nominal size	d	L	Н	H1	Weight
10A	Rc 3/8	70	114	14.5	1.1
15A	Rc 1/2				1.1
20A	Rc 3/4	80	121	17.5	1.3
25A	Rc 1	95	128	21.0	1.7
32A	Rc 1-1/4	110	150	26.0	2.5
40A	Rc 1-1/2	120	157	29.5	3.1
50A	Rc 2	140	172	36.5	5.0

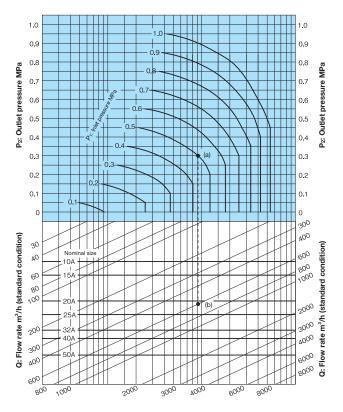
· DP-200F, DP-200F-N

Nominal size	d	L	Н	H ₁	Weight
15A	15	120	147	47.5	2.7
20A	20	130	153	50.0	3.3
25A	25	145	169	62.5	4.8
32A	32	160	192	67.5	6.6
40A	40	170	198	70.0	7.3
50A	50	195	213	77.5	10.0





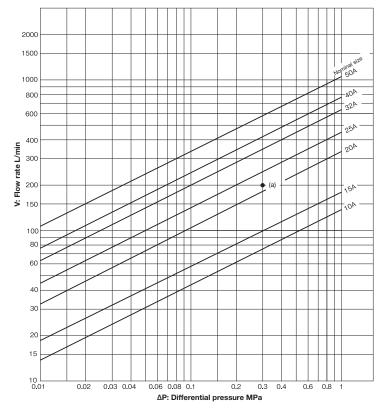
Nominal Size Selection Chart (For Air)



How to use the chart

When selecting the nominal size of a solenoid valve whose inlet pressure (P₁), outlet pressure (P₂), and air (20°C) flow rate (Q) are 0.5 MPa, 0.3 MPa, and 600 m³/h (standard condition), respectively, first find intersection point (a) of P₁ = 0.5 MPa and P₂ = 0.3 MPa. Trace down vertically from this intersection point (b) to find intersection point (b) with Q = 600 m³/h (standard condition). Since this intersection point (b) lies between nominal sizes 20A and 25A, select the larger one, 25A.

* Please refer to P.11-9 for Cv value and calculation formula.



Nominal Size Selection Chart (For Water)

How to use the chart

When selecting the nominal size of a solenoid valve whose inlet pressure (P₁), outlet pressure (P₂), and flow rate (V) are 0.6 MPa, 0.3 MPa, and 200 L/min, respectively, first find intersection point (a) of the differential pressure before and after the valve [$\Delta P = 0.6 - 0.3 = 0.3$ MPa] and V = 200 L/min. Since this intersection point (a) lies between nominal sizes 20A and 25A, select the larger one, 25A.

* Please refer to P.11-9 for Cv value and calculation formula.