

Sub-plate

Piping Size	Japanese Standard "JIS "		European Design Standard		N.American Design Standard		Approx. Mass kg (lbs.)
	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	Sub-plate Model Numbers	Thread Size	
1/8	DSGM-01-31	Rc 1/8	DSGM-01-3180	1/8 BSP.F	DSGM-01-3190	1/8 NPT	0.8 (1.8)
1/4	DSGM-01X-31	Rc 1/4	DSGM-01X-3180	1/4 BSP.F	DSGM-01X-3190	1/4 NPT	0.8 (1.8)
3/8	DSGM-01Y-31	Rc 3/8	—	—	DSGM-01Y-3190	3/8 NPT	0.8 (1.8)

- Sub-plates are available. Specify the sub-plate model number from the table above.
When sub-plates are not used, the mounting surface should have a good machined finish.

Mounting Bolt

For socket head cap screws in the table below are included.

Descriptions	Soc. Hd. Cap Screw (4 pcs.)	Tightening Torque
Japanese Standard "JIS" European Design Standard	M5 × 45 L.g.	5 - 7 Nm (43 - 60 in. lbs.) Applicable to working pressure more than 25 MPa (3630 PSI): 6 - 7 Nm (52 - 60 in. lbs.)
N. American Design Standard	No. 10-24 UNC × 1-3/4 L.g.	

Solenoid Ratings

Valve Type	Electric source	Coil Type	Frequency (Hz)	Voltage (V)		Current & Power at Rated Voltage		
				Source Rating	Serviceable Range	Inrush (A)*2	Holding (A)	Power (W)
Standard Type	AC*1	A100	50	100	80 - 110	2.42	0.51	—
			60	100	90 - 120	2.14	0.37	
				110		2.35	0.44	
		A120	50	120	96 - 132	2.02	0.42	
			60		108 - 144	1.78	0.31	
		A200	50	200	160 - 220	1.21	0.25	
			60	200	180 - 240	1.07	0.19	
				220		1.18	0.22	
Shockless Type	AC → DC Rectified (R)	A240	50	240	192 - 264	1.01	0.21	29
			60		216 - 288	0.89	0.15	
		DC (K Series)	—	12	10.8 - 13.2	—	2.45	
				24	21.6 - 26.4		1.23	
				48	43.2 - 52.8		0.61	
		R100	50/60	100	90 - 110	—	0.33	
				200	180 - 220		0.16	

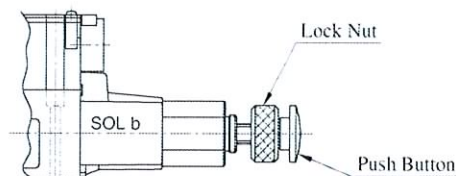
- ★ 1. AC solenoid is not available in shockless type.
R type models with built-in current rectifier is recommended for shockless operation with AC power.
★ 2. Inrush current in the above table show rms values at maximum stroke.
★ 3. There are more coil types other than the above. For details, please make inquiries.

The coil type numbers in the shaded column are handled as optional extras.
In case these coils are required to be chosen, please confirm the time of delivery with us before ordering.

Options

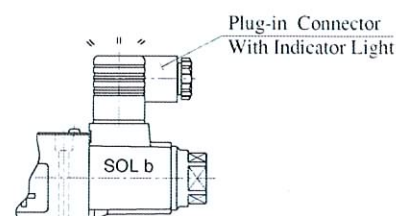
Push Button with Lock Nut

Can be used for manual changeover of spool. The push button can be locked in the pressed condition.



Plug-in Connector with Solenoid Indicator Light

These are the indicator light incorporated plug-in connector type solenoids. Energisation or de-energisation of the solenoid can be easily identified with the incorporated indicator light.



Model Number Designation

F-	S-	DSG	- 01	-2	B	2	A	-D24	-C	-N	-70	*	-L	
Special Seals	Shockless Type	Series Number	Valve Size	Number of Valve Positions	Spool- Spring Arrangement	Spool Type	Special Two Position Valve (Omit if not required)	Coil Type	Manual Override	Electrical Conduit Connection	Design Number	Design Standard	Models with Reverse Mtg. of Solenoid (Omit if not required)	
F: For Phosphate Ester Type Fluids (Omit if not required)	None: Standard Type	DSG: Solenoid Operated Directional Valve	01	3: Three Positions	C: Spring Centred	2, 3 4, 40 60, 9 10, 11 12	—	AC: A100 A120 A200 A240	None: Manual Override Pin	None: Terminal Box Type	70	None: Japanese Std. "JIS"	—	
				2: Two Positions	D: No-Spring Detented	2	—	DC: D12 D24 D48				C: Push Button and Lock Nut (Option)	N: Plug-in Connector Type N1: Plug-in Connector Type with Indicator Light (Option)	90: N.American Design Std.
					B: Spring Offset	2 3 8	A * B *	R: (AC → DC) R100 R200						None: Japanese Std. "JIS" and European Design Std.
	S: Shockless Type			3: Three Positions	C: Spring Centred	2 4	—	DC: D12 D24 D48	R: (AC → DC) R100 R200			90: N. American Design Std.	—	
				2: Two Positions	B: Spring Offset	2	—						L	

★1. In case of the special two position valve, please refer to page 352 for details.

★2. N1 is not available for R type solenoids.

In the table above, the symbols or numbers highlighted with shade represent the optional extras. The valves with model number having such optional extras are handles as options, therefore, please confirm the time of delivery with us before ordering.

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