DIRECTIONAL CONTROL VALVES



Solenoid Operated Directional Valves Max. Pressure 31.5 MPa



DSG-03 Series

- These valves are adapted with strong wet-type solenoid and circuit designs to accomplish high pressure, large volume flow and lower pressure drop.
- The optimum valve for any system can be utilized since many spool types and various solenoids are all available, along with other optional function.
- The pressure drop caused by the passing of pressurized oil is reduced to approx.
 1/2 of the conventional Yuken model.
- Good Light Weight design has accomplished to reduce body weight.

Specifications

Valve Size	Model No	Max. Flow L/min	Max. Pressure MPa (kgf/cm²)	Max. T-Line Back Pressure MPa (kgf/cm²)	Max Changeover Frequency Cycle/min		s kg Solenoid DC.R
3/8	DSG-03-2B * - * -50	120	31.5 (315) Spool Type 60 only 25 (250)	16	240	2.9	3.6
	DSG-03-2D2- ※-50				R Type	3.6	5
	DSG-03-3C % - % - 50			(160)	\ Only 120 /	3.6	5

Model Number Designation

DSG-03-3C2-A110-N1-50-50Hz

None: 60Hz or DC or R × 50 Hz : 50Hz only

★ Please note voltage applicable range for different frequency. In 50 Hz area, if you want to use same voltage as the coil type, please add (50Hz) after the design number.

Design Number

Electrical Conduit Connection None:Standard (Terminal Box Type)

N: Plug-In Connector Type Without Indicator Light N1: Plug-In Connector Type With Indicator Light

DC Terminal Type: Box Rectifier is put in the terminal box. DC Plug-In Type Connector: Rectifier is put in the connector.

Sub-plate

Valve Model No.	Sub-plate Model No.	Piping Size Rc	Mass kg	
	DSGM-03-40	Rc	3	
DSG-03	DSGM-03X-40	3/8		
	DSGM-03Y-40	1/2	4.7	

[•]Sub-plates are available. When ordering, please specify sub-plate model no. from the table above.

Mounting Bolts (Attachment)

Socket Head Cap Screw	Tightening Torque		
M6 x 35Lg 4pcs	12~15 N•m		

Valve Type

★1.DC with Rectifier.

Series Number -

(See table above)

A110, A220, ★1 D12, D24,

R110, R220

Valve Type

Coil Type -

(Sub-plate mounting)

Valve Type 3C2		3C3	3C4	3C40	3C60	3C12
Graphic Symbol						
Valve Type	2B2	2B3	2B8	2B2B	2D2	3C9
Graphic Symbol		MÅHXE,	ĄŢIJ,			

<sup>Valve, other than the types above are available, please contact our sales engineers for your requirements.
2B2,2B3,2B8 & 2D2 type valves have no center position.</sup>

Solenoid Rating

Electric	Coil Type	Serviceable Vo	ltage Range	Current & Power at Rated Voltage			
Source		Frequency (Hz)	Voltage (V)	Inrush (A)	Holding (A)	Power (W)	
	A110/50Hz	50	100-120	3.90	0.78	39	
A.C.	A110/60Hz	60	100-120	3.86	0.71	39	
AC	A220/50Hz	50	200-240	1.82	0.34	37	
	A220/60Hz	60	200-240	1.85	0.34	39	
DC	D12	-	10.8-13.2	-	2.75	33	
DC	D24	-	21.6-26.4	-	1.41	34	
AC→DC	R110	50/60	100-120	-	0.42	38	
	R220	60/60	200-240	-	0.20	38	

There are other coil types available, please contact our sales engineers for your requirement.

[•]Please refer to page 91 for dimension details.