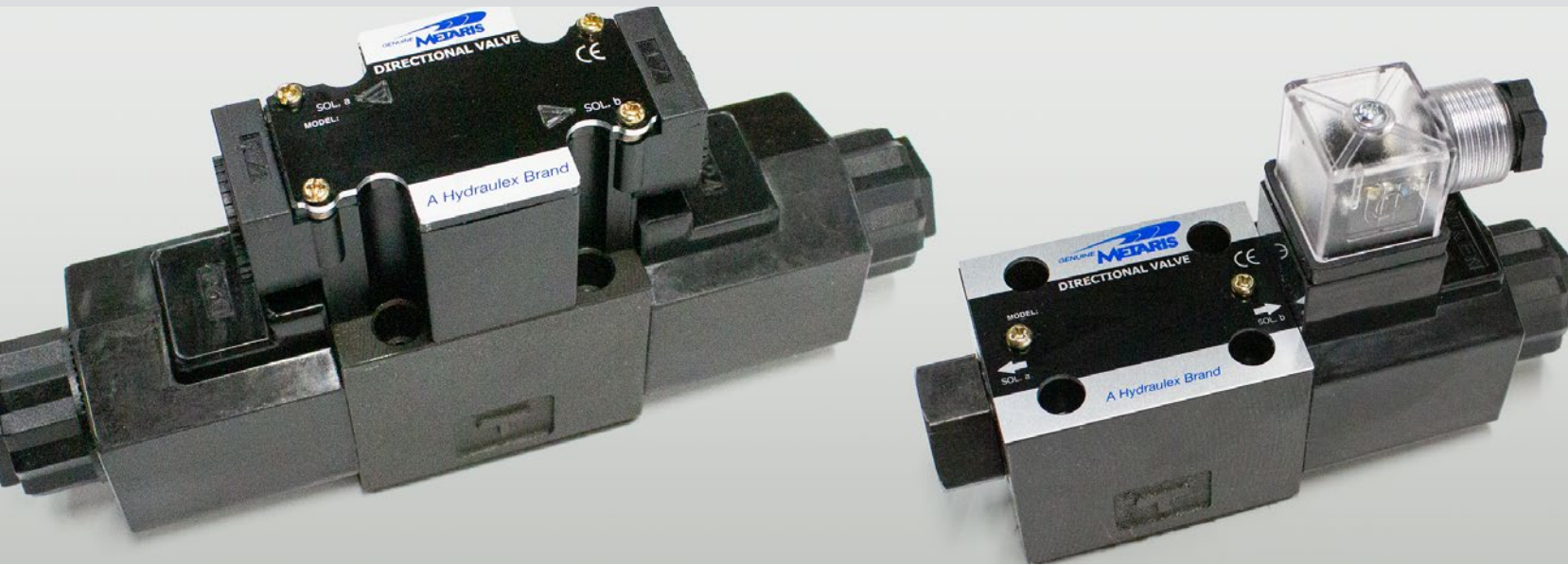


# Genuine Metaris DSG-01 Series Directional Valves

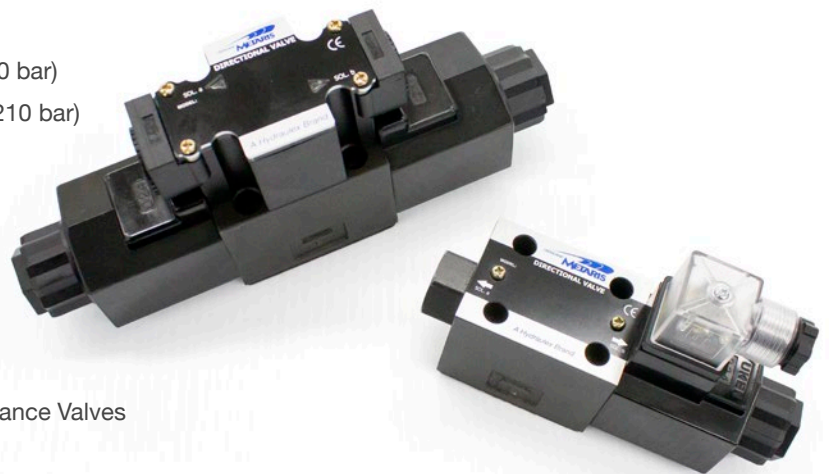
High Performance DG4V3 Interchange Valves



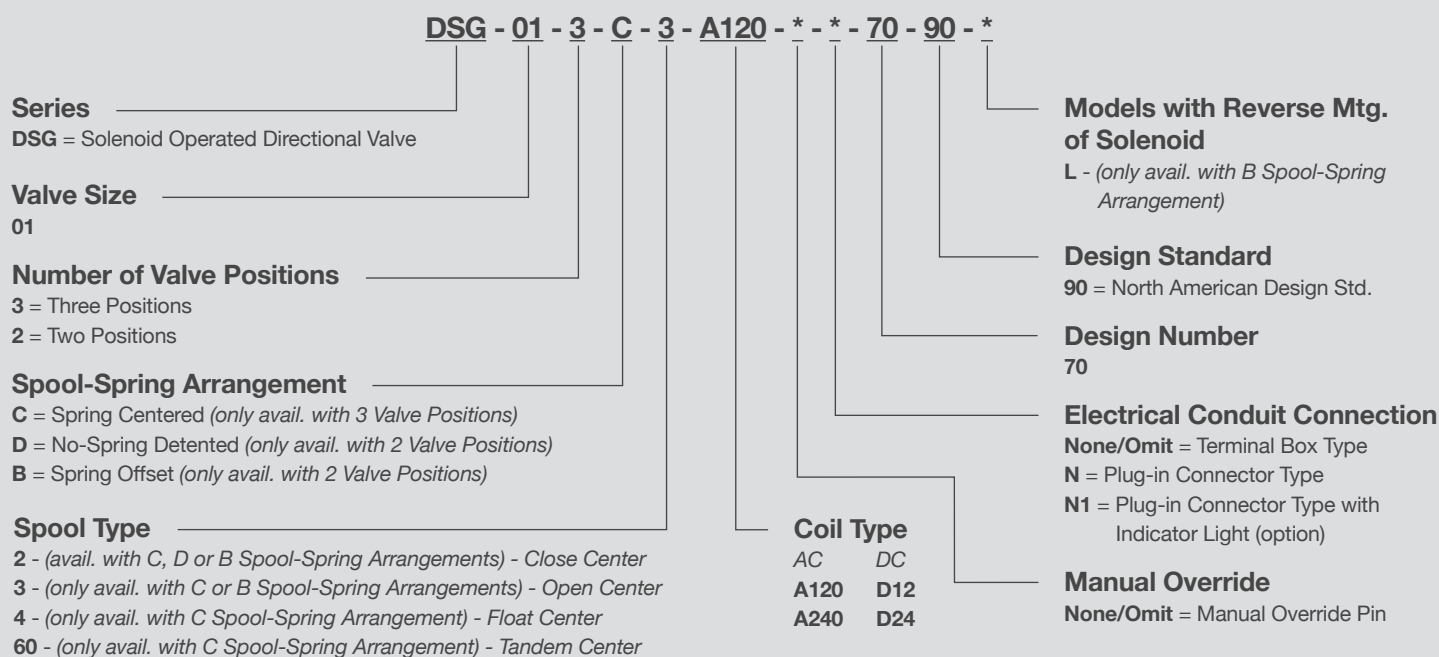
## Offering High Pressure Solenoid Operated Directional Valves

Our Genuine Metaris DSG-01 Series Directional Valves are an interchange valve option that is substantially higher performance and engineered for higher pressure & higher flow, with lower pressure drop when compared to the standard D03 pattern valves. These valves do utilize the D03/NG6 mounting pattern and are available in a Terminal Box type and a Plug-in Connector type design. This is a proven design that is highly stable and reliable in operation and are IP65 rated for dust and water exposure. These are excellent direct interchange options for Vickers® DG4V3 High Performance Directional Valves.

- Engineered for high pressure & high flow rates
- Maximum operating pressure of 4,570 - 5,080 psi (315 - 350 bar)
- Maximum T-Line back pressure of 2,320 - 3,050 psi (160 - 210 bar)
- Maximum flow rate of 16.6 - 26.4 gpm (63 - 100 L/min)
- Low pressure drops which reduce energy consumption
- Compact & lightweight design
- Terminal Box type and Plug-in Connector type available
- Multiple options for model code configuration
- D03/NG6 Mounting Pattern Design
- Direct interchange option for Vickers® DG4V3 High Performance Valves



# Model Code Breakdown



## SPECIFICATIONS

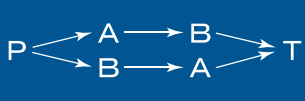


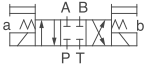
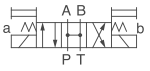
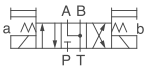
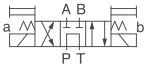
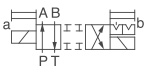
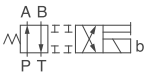
Valve Type	Model Numbers	Max. Flow L/min (US gpm)	Max Operating Pressure bar (psi)	Max. T-Line Back Pressure bar (psi)	Max. Changeover Frequency Cycle/min {min <sup>-1</sup> }	Weight Kg (lbs)
Standard Type	DSG-01-3C*-*/7090	100 (26.4)	350 (5,080)	210 (3,050)	300	1.85 (4.08)
	DSG-01-2D2*-*/7090					1.4 (3.09)
	DSG-01-2B*-*/7090					

## SOLENOID RATINGS

Valve Type	Electric Source	Coil Type	Frequency (Hz)	Voltage (V)		Current & Power at Rated Voltage		
				Source Rating	Serviceable Range	Inrush (A)	Holding (A)	Power (W)
Standard Type	AC	A120	50	120	96-132	2.02	0.42	-
			60		108-144	1.78	0.31	-
		A240	50	240	192-264	1.01	0.21	-
			60		216-288	0.89	0.15	-
	DC	D12	-	12	10.8-13.2	-	2.45	29
		D24	-	24	21.6-26.4	-	1.23	29

# Engineered for High Pressure & High Flow

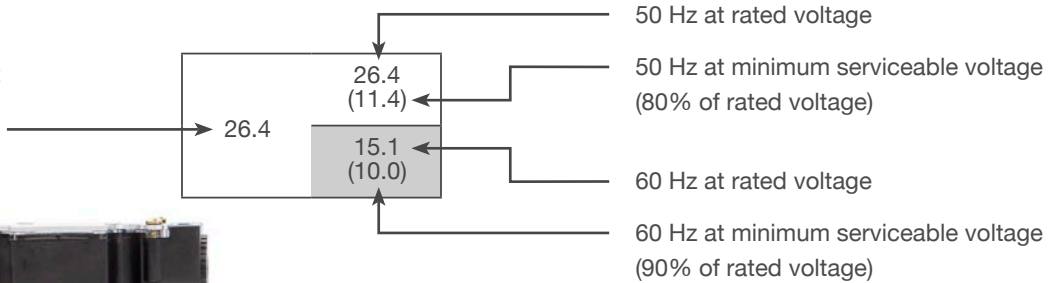
## MAXIMUM FLOW OF STANDARD MODELS

Number of Valve Positions	Spool-Spring Arrangement	Model Numbers	Graphic Symbols	Maximum Flow (US gpm)														
																		
				Working Pressure (psi)					Working Pressure (psi)					Working Pressure (psi)				
				1,450	2,320	3,630	4,570	5,080	1,450	2,320	3,630	4,570	5,080	1,450	2,320	3,630	4,570	5,080
Three Positions	Spring Centered	DSG-01-3C2		26.4	26.4	26.4	26.4	26.4	26.4 (11.4)	26.4 (10.8)	21.1 (5.6)	15.9 (4.5)	10.0 (4.0)	26.4 (11.4)	26.4 (10.8)	21.1 (5.6)	15.9 (4.5)	10.0 (4.0)
				26.4	26.4	26.4	26.4	26.4	15.1 (10.0)	14.0 (8.2)	7.7 (4.5)	5.0 (2.6)	3.4 (2.4)	15.1 (10.0)	14.0 (8.2)	7.7 (4.5)	5.0 (2.6)	3.4 (2.4)
				23.8 (16.6)	23.8 (16.6)	23.8 (16.6)	23.8 (16.6)	23.8 (16.6)	11.9 (7.9)	11.9 (7.9)	11.9 (7.9)	11.9 (7.9)	11.9 (7.9)	11.9 (7.9)	11.9 (7.9)	11.9 (7.9)	11.9 (7.9)	11.9 (7.9)
	Spring Offset	DSG-01-3C3		26.4 (21.1)	26.4 (21.1)	26.4 (21.1)	26.4 (21.1)	26.4 (21.1)	18.5 (12.2)	18.5 (12.2)	18.5 (12.2)	18.5 (12.2)	18.5 (12.2)	18.5 (12.2)	18.5 (12.2)	18.5 (12.2)	18.5 (12.2)	18.5 (12.2)
				23.8	23.8	23.8	23.8	9.2	26.4 (10.0)	20.1 (17.4)	17.7 (4.0)	15.1 (2.6)	9.2 (1.8)	26.4 (10.0)	20.1 (17.4)	17.7 (4.0)	15.1 (2.6)	9.2 (1.8)
				23.8 (6.9)	11.4 (3.7)	7.9 (2.9)	13.2 (8.2)	10.0 (5.3)	5.3 (2.6)	4.2 (1.9)	3.2 (1.3)	13.2 (8.2)	10.0 (5.3)	5.3 (2.6)	4.2 (1.9)	3.2 (1.3)		
DSG-01-3C4		11.4 (6.1)	11.4 (6.1)	11.4 (6.1)	11.4 (6.1)	11.4 (6.1)	14.2 (8.4)	14.2 (8.4)	13.7 (8.4)	13.7 (8.4)	13.7 (8.4)	14.2 (8.4)	14.2 (8.4)	13.7 (8.4)	13.7 (8.4)	13.7 (8.4)		
		10.6 (6.1)	10.6 (6.1)	10.6 (6.1)	9.5 (6.1)	9.2 (6.1)	12.7 (7.9)	12.4 (7.9)	12.4 (7.9)	12.4 (7.9)	12.4 (7.9)	12.7 (7.9)	12.4 (7.9)	12.4 (7.9)	12.4 (7.9)	12.4 (7.9)		
DSG-01-3C60		11.4 (6.1)	11.4 (6.1)	11.4 (6.1)	11.4 (6.1)	11.4 (6.1)	14.2 (8.4)	14.2 (8.4)	13.7 (8.4)	13.7 (8.4)	13.7 (8.4)	14.2 (8.4)	14.2 (8.4)	13.7 (8.4)	13.7 (8.4)	13.7 (8.4)		
Two Positions	No Spring Detented	DSG-01-2D2		21.1	21.1	21.1	21.1	21.1	11.9	11.9	11.9 (5.6)	11.9 (4.2)	10.0 (3.4)	13.2 (11.9)	13.2 (11.9)	13.2 (11.1)	11.9 (10.6)	11.9 (10.6)
				9.5 (4.8)	7.4 (3.4)	5.8 (3.2)	13.2 (11.9)	13.2 (11.9)	13.2 (11.1)	11.9 (10.6)	11.9 (10.6)							
	Spring Offset	DSG-01-2B2		22.5	22.5	22.5	22.5	22.5	5.3	4.2	4.2	4.0	3.4	22.5 (16.6)	21.1 (13.2)	16.6 (10.6)	11.6 (8.5)	11.6 (8.5)
				22.5 (7.9)	15.9 (8.7)	13.2 (7.4)	10.6 (7.4)	10.6 (7.4)										

The relation between maximum flow in the table above and the frequency/voltage (within the serviceable voltage) is shown below.

### EXAMPLE

The maximum flow rate is constant regardless of 50 Hz or 60 Hz and of any voltage variants within the serviceable voltage.



# Cross Reference List

Below are cross references for some common valve configurations we stock.

METARIS CODE	VICKERS CODE
DSG-01-2B2-D24-N1-70-90	DG4V-3-2A-M-U-H7-60
DSG-01-3C2-D24-N1-70-90	DG4V-3-2C-M-U-H7-60
DSG-01-3C2-D24-70-90	DG4V-3-2C-M-FW-H7-60
DSG-01-2D2-D24-N1-70-90	DG4V-3-2N-M-U-H7-60
DSG-01-3C4-A120-70-90	DG4V-3-6C-M-FW-B6-60
DSG-01-2B2-A120-N1-70-90	DG4V-3-2A-M-U-B6-60
DSG-01-2B2-A120-70-90	DG4V-3-2A-M-FW-B6-60
DSG-01-3C2-A120-70-90	DG4V-3-2C-M-FTWL-B6-60
DSG-01-3C2-A120-N1-70-90	DG4V-3-2C-M-U-B6-60
DSG-01-3C2-D12-N1-70-90	DG4V-3-2C-M-U-G7-60
DSG-01-2B2-D12-N1-70-90	DG4V-3-2A-M-U-G7-60
DSG-01-3C60-A120-70-90	DG4V-3-8CV-M-FW-B6-60
DSG-01-3C60-D24-N1-70-90	DG4V-3-8CV-M-U-H7-60
DSG-01-3C60-D12-70-90	DG4V-3-8CV-M-FW-G7-60



Hydraulex Corporate  
48175 Gratiot Ave  
Chesterfield, MI 48051  
Toll Free: 800.422.4279  
Tel: 586.949.4240

[www.hydraulex.com](http://www.hydraulex.com)

Hydraulex Detroit  
Hydraulex Jackson  
Hydraulex Seattle  
Hydraulex Memphis

Tel: 586.949.4240  
Tel: 601.469.1987  
Tel: 253.604.0400  
Tel: 901.794.2462

[sales@hydraulex.com](mailto:sales@hydraulex.com)  
[sales@metarيسusa.com](mailto:sales@metarيسusa.com)  
[seattlesales@hydraulex.com](mailto:seattlesales@hydraulex.com)  
[mempihsales@hydraulex.com](mailto:mempihsales@hydraulex.com)



Connect with us:



All manufacturers names, symbols and descriptions in this document are used for reference purposes only, and it is not implied that any parts listed is the product of these manufacturers.