

Bell Hydromatics

Solenoid Operated

DSG-03-DC



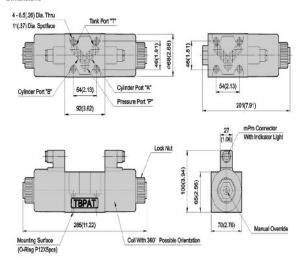
Features:

- High Flow rate upto 120 lpm (31.7 USgpm)
 Maximum Operating presuure upto 315 bar (4500 PSI)
 Long service life with average durability of 50 million spool shifts.

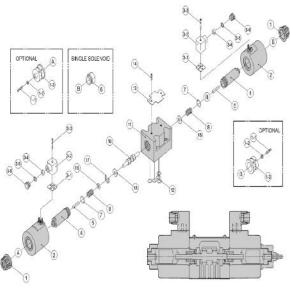
Technical Specifications

Spool Type & Graphic Symbols		DSG - 03 (3/8")		
Symbols	Model Number	Rated Flow Capacity	Maximun Flow Capacity	
A B T X B	DSG-03-2B2-**			
~ HXE b	DSG-03-2B3-**			
A B I I I I I b	DSG-03-2B8-**			
a I I I I I b	DSG-03-2D2-**			
* PT b	DSG-03-2D3-**			
* * * * * * * * * * * * * * * * * * *	DSG-03-3C2-**			
a A B b	DSG-03-3C3-**	70 lpm (18.5 USgpm)	120 lpm (31.7 USgpm)	
• AB	DSG-03-3C4-**	,		
• AB	DSG-03-3C40-**			
a AB b	DSG-03-3C7-**			
а Д Д Б	DSG-03-3C9-**			
a AB	DSG-03-3C10-**			
· AB	DSG-03-3C11-**			
a AB	DSG-03-3C12-**			
a A B	DSG-03-3C5-**			
a Z I I I I I I I I I I I I I I I I I I	DSG-03-3C6-**	70 lpm (18.5 USgpm)	100 lpm (26.4 USgpm)	
	DSG-03-3C60-**			
Max. Operating Press	ure (P.AB) (bar)	315 (4500 PSI)		
Max. Operating Pressure 3C5/3C6 Types (bar)		250 (3600 PSI)		
Permissible Back Pre	essure (T) (bar)	160 (2300 PSI)		
Weight (Kgs)	Double Solenoid	4.8		
	Single Solenoid	3.8		
Switching Frequency (times/min) Hydraulic Fluids		240 Use Hydraulic Fluids Equivalent to ISO VG32 or		
	Setter Contract	VG46		
Operating Temperate		-15 ~ +70 (+5 ~ +160 °F)		
Operating Visco		15 ~ 400 (80 ~ 1800 SSU)		
Filtratio	n	25 Microns Absolute or Finer		

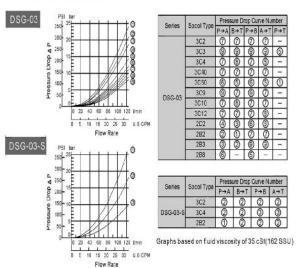
Dimensions



Assembly



Performance Graphs



Solenoid Specifications

Valve Response Capacity

Voltage (V)		DC 12V	DC24V	
DSG	Holding Current (A)	3.16	1.57	
(03) 3/8"	Holding Electrical Power (W)	38	38	

Working Direction	Energisation	Spring Back	
Spring Centerd Type (3C*)	0.030 ~ 0.090	0.020 ~ 0.050	
No Spring Type (2D*)	0.030 - 0.030		
Spring Offset Type (2B*)	0.030 ~ 0.050	0.020 ~ 0.040	

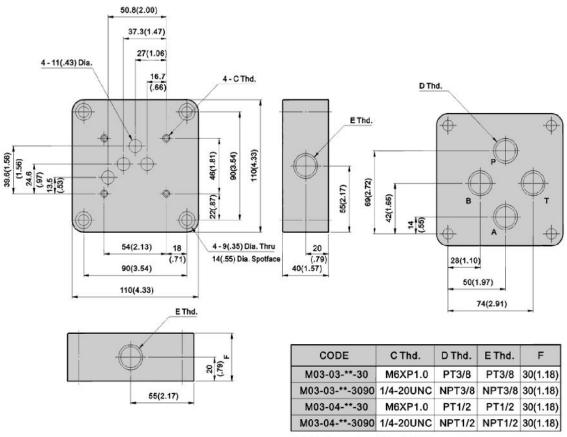
Above response time test condition based on 140 bar (2000 psi), 30 lpm (7.9 USgpm).
 Changoover response time changes aittle by test condition (pressure, flow, viscosity... etc.).

Subplates

Ordering Code

моз	03	4B	36
Series Number	Series Number Port Size Port Position		Design No.
Subplates for DSG-01 solenoid valves	02: 1/4"	4S: Four side ports (A,B,P,T)	36: with PT thread
	03: 3/8"	4B: Four back ports (A,B,P,T)	
	04: 1/2"	2S2B: Two ports (A,B) in side and Two ports (P,T) in back.	
	06: 3/4"	3S1B: Three ports (A,B,P) in side and one port (T) in back.	
	10: 1- 1/4"	3S1B2: Three ports (A,B,P) in side (A+B on one side) and one port (T) in back.	
		4S4B: Four ports (A,B,P,T) in side and four ports (A,B,P,T) in back and supplied with 4 pcs plugs.	

Subplate Dimensions



"F" is for port position "4B" type only.

Ordering Code

DSG	3C2	N	03	D1	36
Series No.	Spool Type	Electrical Conduit Type	Valve Size	Coil Voltage	Design No.
DSG	Spring centered 3 Position (3C94, 3C60, 3C6, 3C3 etc.)	N: DIN connector with light.	03 – 3/8" (NFPA- D05)	<u>D1:</u> DC12V <u>D2:</u> DC24V	36: with DIN 912 bolts
	Spring Offset 2 Position(2B2, 2B3, 2B8, 2B29 etc.)			D3: DC36V D4: DC48V	
	Spring Detented 2 Position(2D2, 2D3 etc.)			<u>D5</u> : DC60V <u>D6:</u> DC72V	
	For complete list see Spool Types tab below			D14.5: DC14.5v	
				D28: DC28V	