

Bell Hydromatics

Directional Valves Solenoid Operated(DSG)

DSG-01-DC



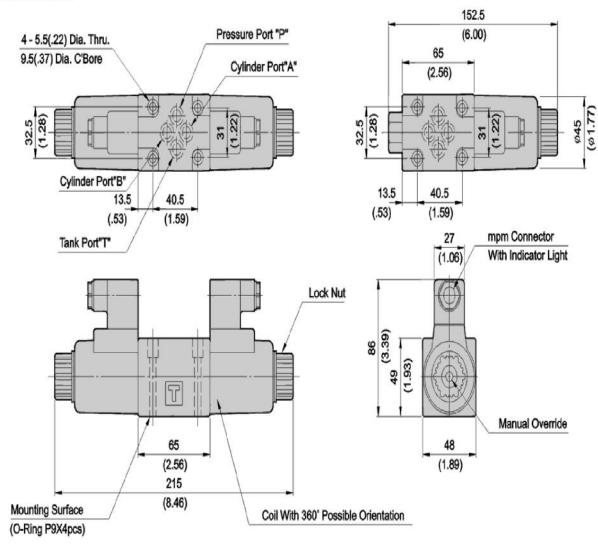
Features:

- High Flow rate upto 63 lpm (16.6 USgpm)
- Maximum Operating presuure upto 315 bar (4500 PSI)
 Long service life with average durability of 50 million spool shifts.

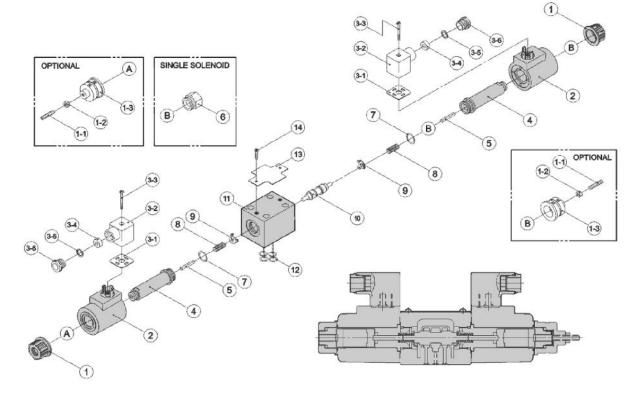
SymbolsModel NumberRated Flow CapacityMaximun Flow Capacity	Spool Type & Graphic Symbols		DSG – 01 (1/8")			
PTDSC-01-283-** $h_{\mu\nu}^{+}$: IZEs,DSC-01-283-** $h_{\mu\nu}^{+}$: IZEs,DSC-01-283-** $h_{\mu\nu}^{+}$: IZEs,DSG-01-202-** $h_{\mu\nu}^{+}$: IZEs,DSG-01-202-** $h_{\mu\nu}^{+}$: IZEs,DSG-01-202-** $h_{\mu\nu}^{+}$: IZEs,DSG-01-3C2-** $h_{\mu\nu$	Symbols	Model Number				
▶ : : □DSG-01-258-** * : : : : : : : : : : : : : : : : : : :		DSG-01-2B2-**				
▶ T DSG-01-2D2-** * □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □		DSG-01-2B3-**				
→ →		DSG-01-2B8-**				
→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→→		DSG-01-2D2-**				
Image: state		DSG-01-2D3-**				
AB PTDSG-01-3C4-** PT30 lpm (7.9 USgpm)63 lpm (16.6 USgpm)*AB PTDSG-01-3C4-** PT*AB PTDSG-01-3C9-** PT*AB PTDSG-01-3C9-** PT*AB PTDSG-01-3C9-** PT*AB PTDSG-01-3C10-** PT*AB PTDSG-01-3C10-** PT*AB PTDSG-01-3C12-** PT*AB PTDSG-01-3C5-** PT*AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-***AB PTDSG-01-3C6-**Max. Operating Pressure (P.AB) (bar)30 lpm (7.9 USgpm)Max. Operating Pressure (P.AB) (bar)160 (2300 PSi) <t< th=""><th></th><th>DSG-01-3C2-**</th><th></th><th></th></t<>		DSG-01-3C2-**				
* → → → → → → → → → → → → → → → → → → →		DSG-01-3C3-**	30 lpm (7.9 USapm)	63 lpm (16.6 USgpm)		
•	a A B b b	DSG-01-3C4-**				
$\frac{1}{10000000000000000000000000000000000$		DSG-01-3C40-**				
$\frac{1}{9} + \frac{1}{9} + \frac{1}$		DSG-01-3C7-**				
Image: state	a A B b b	DSG-01-3C9-**				
$\frac{1}{P+T}$ $\frac{1}$		DSG-01-3C10-**				
Image: state		DSG-01-3C11-**				
$\frac{1}{P + T} = \frac{1}{P + T}$ $\frac{1}{P + T} = \frac{1}{P + T}$ $\frac{1}{P + T} = \frac{1}{P + T}$ $\frac{1}{P + T}$		DSG-01-3C12-**				
Image: Product of the second seco		DSG-01-3C5-**				
Max. Operating Pressure (P.A.B) (bar) 315 (4500 PSI) Max. Operating Pressure 3C5/3C6 Types (bar) 250 (3600 PSI) Max. Operating Pressure (T) (bar) 160 (2300 PSI) Permissible Back Pressure (T) (bar) 2.0 Weight (Kgs) Double Solenoid 2.0 Single Solenoid 1.6 Switching Frequency (times/min) 280 Hydraulic Fluids Use Hydraulic Fluids Equivalent to ISO VG32 or VG46 Operating Temperature Range (°C) -15~+70 (+5~+160 °F)		DSG-01-3C6-**	30 lpm (7.9 USgpm)	45 lpm (11.9 ∪Sgpm)		
Max. Operating Pressure 3C5/3C6 Types (bar) 250 (3600 PSI) Permissible Back Pressure (T) (bar) 160 (2300 PSI) Weight (Kgs) Double Solenoid 2.0 Single Solenoid 1.6 Switching Frequency (times/min) 280 Hydraulic Fluids Use Hydraulic Fluids Equivalent to ISO VG32 or VG46 Operating Temperature Range (°C) -15~+70 (+5~+160 °F)	° ZIH⊖r P⊤	DSG-01-3C60-**				
(bar) 200 (3000 F31) Permissible Back Pressure (T) (bar) 160 (2300 PSI) Weight (Kgs) Double Solenoid 2.0 Single Solenoid 1.6 Switching Frequency (times/min) 280 Hydraulic Fluids Use Hydraulic Fluids Equivalent to ISO VG32 or VG46 Operating Temperature Range (°C) -15~+70 (+5~+160 °F)	Max. Operating Pressure (P.AB) (bar)		315 (4500 PSI)			
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Hydraulic Fluids Use Hydraulic Fluids Equivalent to ISO VG32 or VG46 Operating Temperature Range (°C) -15 ~ +70 (+5 ~ +160 °F)	And the second s		2 Botteps			
Operating Temperature Range (°C) -15 ~ +70 (+5 ~ +160 °F)			Use Hydraulic Fluids Equivalent to ISO VG32 or			
			T BOX MANAGERS IN REALINGTION			
Filtration 25 Microns Absolute or Finer						

Technical Specifications

Dimensions



Assembly



Performance Graphs

Solenoid Specifications

DSG

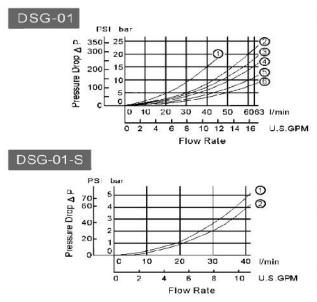
(01)

1/8"

Voltage (V)

Holding Current (A)

Holding Electrical Power (W)



Series	Spool Type	Pressure Drop Curve Number				
		P→A	B→T	P→B	A→T	P⇒T
	3C2	6	6	5	5	1
	3C3	6	6	6	6	4
	3C4	5	6	5	6	Ţ
DSG-01	3C40	6	6	6	6	Ţ
	3060	0	1	1	1	⊕
	3C9	6	5	6	5	1
	3C10	5	6	5	6	
	3C12	5	6	5	6	ļ
	2D2	6	0	6	0	1000
	2B2	2	2	5	5	
	2B3	3	3	5	6	-
	2B8	5	3773	6	10.50	35-36

Series	Spool Type	Pressure Drop Curve Number				
		P→A	B→T	P→B	A→T	
DSG-01-S	3C2	1	1	1	1	
	304	1	2	1	0	
	2B2	1	1	1	1	

Graphs based on fluid viscosity of 35 cSt(162 SSU) .

Valve Response Capacity

DC

24V

1.1

26

DC

12V

2.2

26

Working Direction	Energisation	Spring Back	
Spring Centered Type (3C*)	0.02 ~ 0.05	0.015 ~ 0.05	
No Spring Type (2D*)	0.02 ~ 0.05		
Spring Offset Type (2B*)	0.02 ~ 0.05	0.015 ~ 0.05	

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

Ordering Code

DSG	3C2	N	01	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	01 – 1/8" (NFPA- D03)	<u>D1:</u> DC12V <u>D2:</u> DC24V	36: with DIN 912 bolts
	Spring Offset 2 Position(2B2, 2B3, 2B8, 2B29 etc.)			<u>D3:</u> DC36V <u>D4:</u> DC48V	
	Spring Detented 2 Position(2D2, 2D3 etc.)	with light.		<u>D5</u> : DC60V <u>D6:</u> DC72V	
	For complete list see			<u>D14.5:</u> DC14.5v	
	Spool Types tab below			<u>D28:</u> DC28V	