

Technical Information

CV Check Valves
SH Shuttle Valves
LM Load/Motor Controls
FC Flow Controls
PC Pressure Controls
LE Logic Elements
DC Directional Controls
MV Manual Valves
SV Solenoid Valves
PV Proportional Valves
CE Coils & Electronics
BC Bodies & Cavities
TD Technical Data

General Description

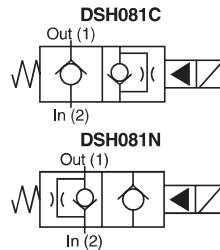
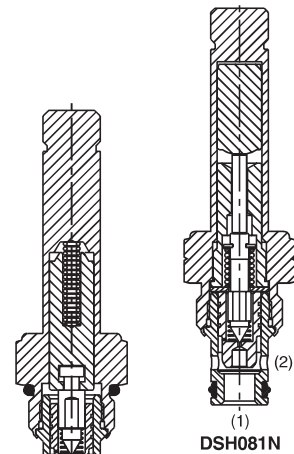
2-Way Poppet Valves. For additional information see Technical Tips on pages SV1-SV6.

Features

- Replaceable, one piece encapsulated, coils with minimal amperage draw
- Variety of coil terminations and voltages
- Variety of manual override options available
- Fast response available, (CH and CHR) rated at 15 LPM (4.0 GPM)
- Polyurethane "D"-Ring eliminates need for backup rings
- Spherical poppet for low leakage
- Nylon inserted jam-nut provides secure holding in high vibration applications
- All external parts zinc plated

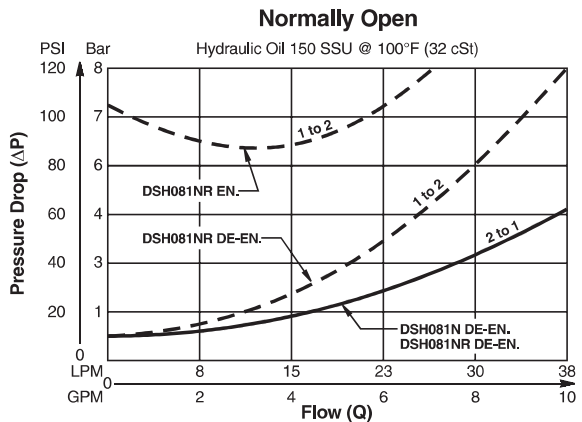
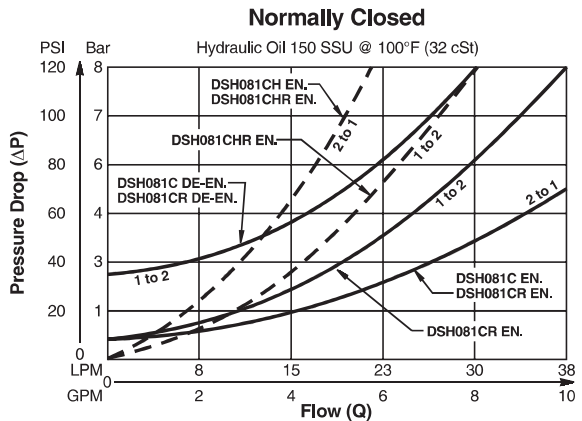
Specifications

Rated Flow (At 70 PSI ΔP)	30 LPM (8 GPM)												
Maximum Inlet Pressure	350 Bar (5000 PSI)												
Leakage at 150 SSU (32 cSt)	5 drops/min. (.33 cc/min.)												
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).												
Response Time	<table border="1"> <thead> <tr> <th></th> <th>Energized</th> <th>De-Energized</th> </tr> </thead> <tbody> <tr> <td>C, CR</td> <td>50 ms</td> <td>50 ms</td> </tr> <tr> <td>CH, CHR</td> <td>30 ms</td> <td>50 ms</td> </tr> <tr> <td>N, NR</td> <td>50 ms</td> <td>40 ms</td> </tr> </tbody> </table>		Energized	De-Energized	C, CR	50 ms	50 ms	CH, CHR	30 ms	50 ms	N, NR	50 ms	40 ms
	Energized	De-Energized											
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Cartridge Material	All parts steel. All operating parts hardened steel.												
Operating Temp. Range/Seals	-45°C to +93.3°C ("D"-Ring) (-50°F to +200°F) -31.7°C to +121.1°C (Fluorocarbon) (-25°F to +250°F)												
Fluid Compatibility/Viscosity	Mineral-based or synthetic with lubricating properties at viscosities of 45 to 2000 SSU (6 to 420 cSt)												
Filtration	ISO Code 16/13, SAE Class 4 or better												
Approx. Weight	.11 kg (.25 lbs.)												
Cavity	C08-2 (See BC Section for more details)												
Form Tool	Rougher None Finisher NFT08-2F												

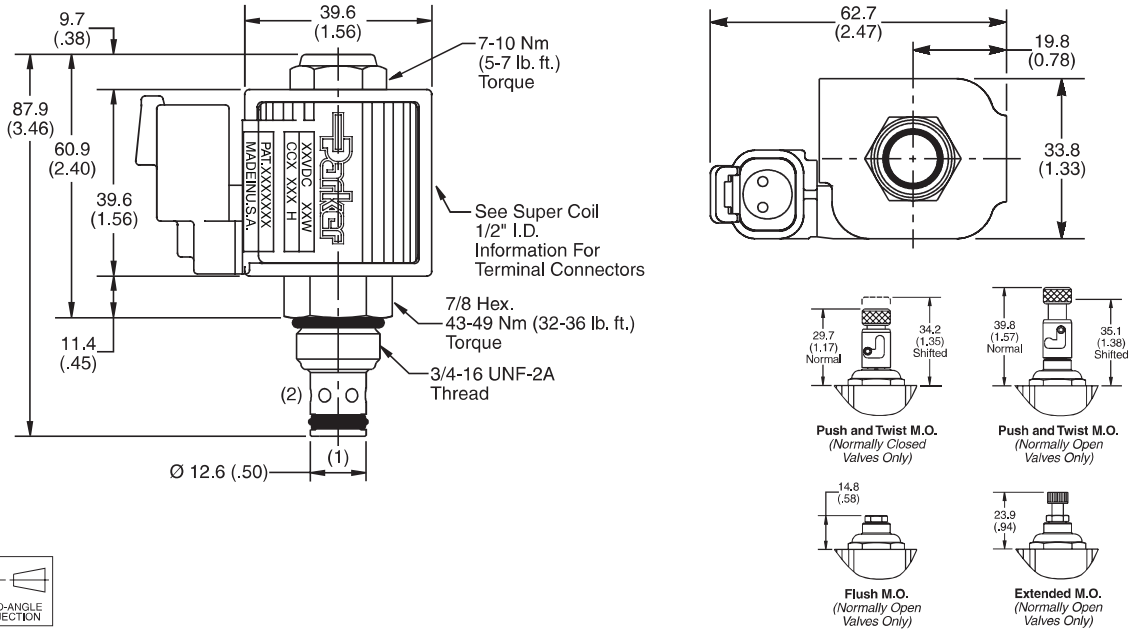


Performance Curves

Pressure Drop vs. Flow (Through cartridge only)

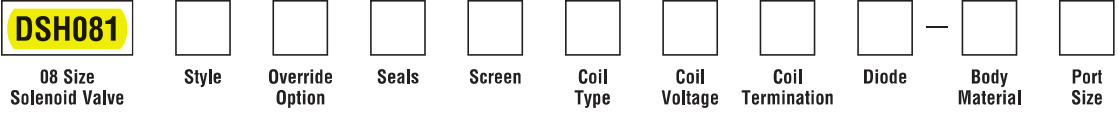


Dimensions Millimeters (Inches)



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- SH** Shuttle Valves
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Ordering Information



Code / Style	Diagram
C Normally Closed Metered reverse flow	
CH Normally Closed Metered reverse flow (Fast response)	
CHR Normally Closed Free reverse flow (Fast response)	
CR Normally Closed Free reverse flow	
N Normally Open Metered reverse flow	
NR Normally Open Free reverse flow	

Code	Override Options
Omit	None
E	Push Type with Extended Rod (N.O. Only)
M	Push Type with Flush Rod (N.O. Only)
T	Push & Twist (N.C.* & N.O.)

**Requires Super Coil*

Code	Seals / Kit No.
Omit	"D"-Ring / (SK08-2)
N	Nitrile / (SK08-2N)
V	Fluorocarbon / (SK08-2V)

Code	Screen
Omit	None
S	Screen

Code	Coil Type
Omit	Without Coil
SP*	Super Coil - 19 Watts
U	Unicoil - 14 Watts

**Recommended*

Code	Coil Voltage
Omit	Without Coil
D012	12 VDC
D024	24 VDC
A120	120/110 VAC, 60/50 Hz
A240	240/220 VAC, 60/50 Hz

Code	Diode
Omit	None
R	Diode

Code	Body Material
Omit	Steel
A	Aluminum

SP* Coil	Coil Termination	U Coil
Omit	Without Coil	Omit
C	Conduit With Leads	C
D	DIN Plug Face	D
A	Amp Jr. Timer†	-
S	Dual Spade†	-
W	Dual Screw†	-
L	Dual Lead Wire†	W
H	Molded Deutsch†	-

Code	Port Size	Body Part No.
Omit	Cartridge Only	
4P	1/4" NPTF	(B08-2-*4P)
6P	3/8" NPTF	(B08-2-*6P)
4T	SAE-4	(B08-2-*4T)
6T	SAE-6	(B08-2-*6T)
6B	3/8" BSPG	(B08-2-*6B)

** Add "A" for aluminum, omit for steel.*

**Recommended †DC Only*

