

Technical Information

Poppet Type, 2-Way Valve
Series DSH161

LAST REV. DATE - 2017-03-20
 REVISION LEVEL - 000
 CHANGED BY - FCB
 CATALOG NUMBER -
 (if not printed on the catalog page)
 PART NUMBER - 250-1247

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

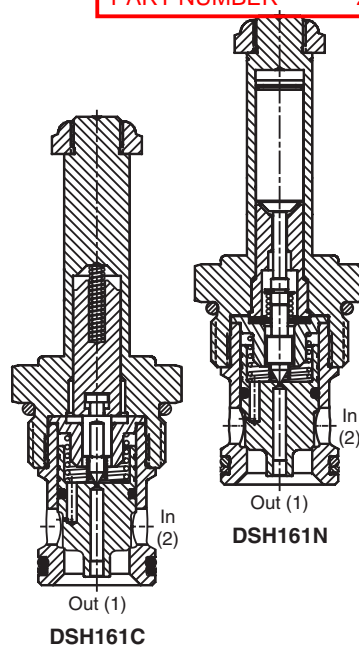
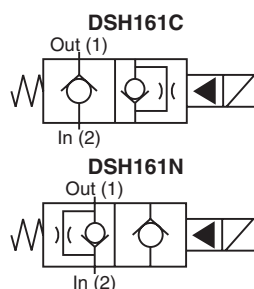
- Replaceable, one piece encapsulated coils with minimal amperage draw
- Various coil terminations and voltages
- Various manual override options
- All external parts zinc plated
- New 350 Bar (5000 PSI) rating

NOTE:

This valve will be available January 1, 2011.

Specifications

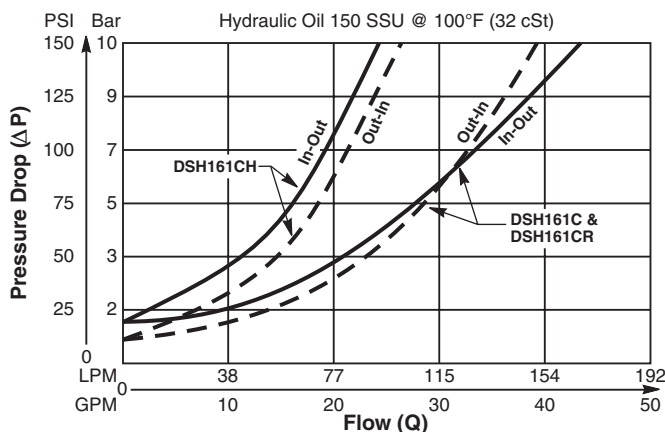
Rated Flow	150 LPM (40 GPM)		
Maximum Inlet Pressure	350 Bar (5000 PSI)		
Leakage at 150 SSU (32 cSt)	5 drops/min. (.33 cc/min.)		
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).		
Response Time	C, CR CH N, NR	Energized 50 ms 40 ms 45 ms	De-Energized 130 ms 60 ms 75 ms
Cartridge Material	All parts steel. All operating parts hardened steel.		
Operating Temp. Range/Seals	-40°C to +93.3°C (Nitrile) (-40°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	.34 kg (.75 lbs.)		
Cavity	C16-2 (See BC Section for more details)		
Form Tool	Rougher Finisher	None NFT16-2F	



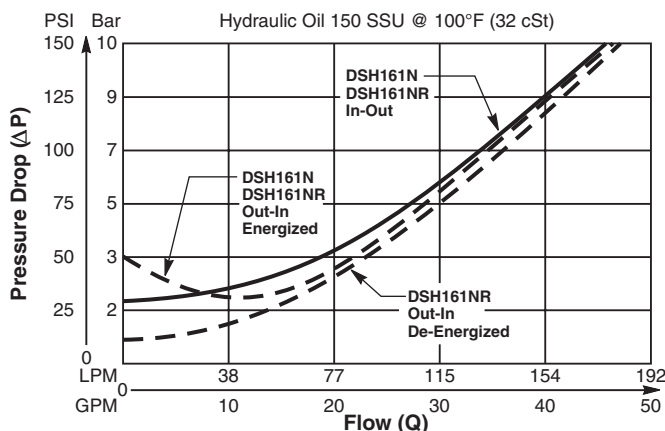
Performance Curves

Pressure Drop vs. Flow (Through cartridge only)

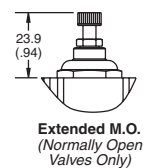
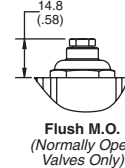
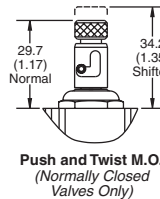
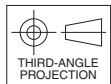
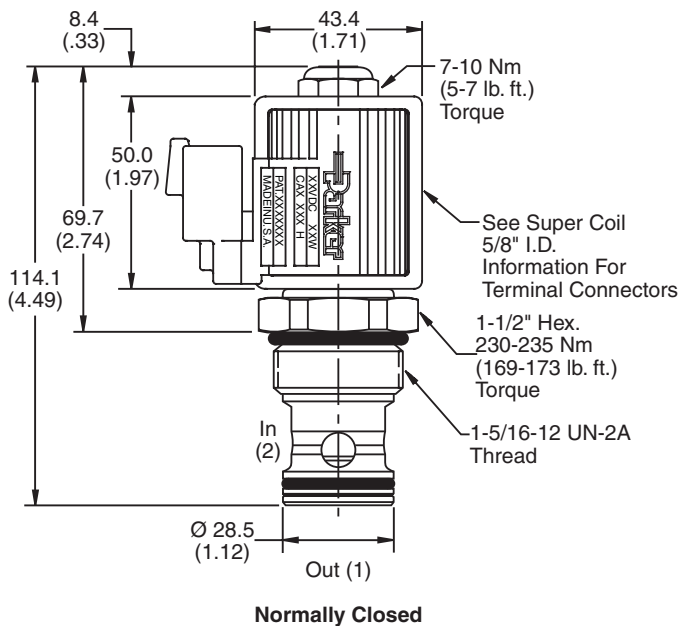
Normally Closed



Normally Open



Dimensions Millimeters (Inches)



Ordering Information

DSH161	NR			SP	D024	D		
16 Size Solenoid Valve	Style	Override Option	Seals	Coil Type	Coil Voltage	Coil Termination	Body Material	Port Size

NOTE: This valve will be available January 1, 2011.

Code / Style	
C Normally Closed Metered reverse flow	
CH Normally Closed Metered 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. Only)

Code	Seals / Kit. No.
Omit	Nitrile / (SK16-2)
V	Fluorocarbon / (SK16-2V)

Code	Coil Type
Omit	Without Coil
SP*	Super Coil - 28 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	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
12T	SAE-12	(B16-2-*12T)
16T	SAE-16	(B16-2-*16T)
12B	3/4" BSPG	(B16-2-*12B)
16B	1" BSPG	(B16-2-16B)†

** Add "A" for aluminum, omit for steel.
† Steel body only.*

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

**Recommended †DC Only*