

Technical Information

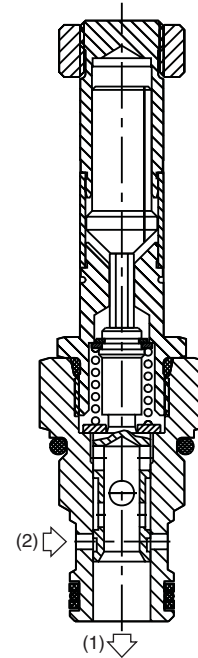
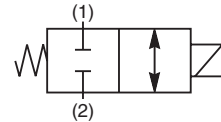
- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
- PC** Pressure Controls
- LE** Logic Elements
- DC** Directional Controls
- MV** Manual Valves
- SV** Solenoid Valves
- PV** Proportional Valves
- CE** Coils & Electronics
- BC** Bodies & Cavities
- TD** Technical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

General Description

2-Way, 2 Position, Normally Closed Spool Valve. For additional information see Technical Tips on pages SV1-SV6.

Features

- High flow capacity
- One piece cartridge housing ensures internal concentricity
- Coil: Waterproof, hermetically sealed, requires no O’Rings; Symmetrical coil can be reversed without affecting performance.

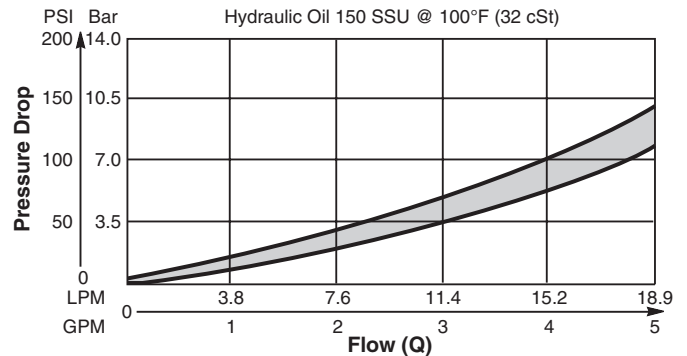


Specifications

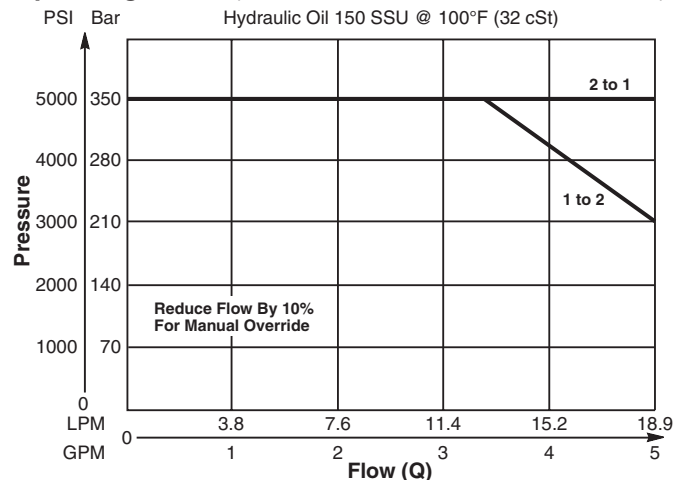
Rated Flow (At 70 PSI ΔP)	13 LPM (3.5 GPM)
Maximum Inlet Pressure	350 Bar (5000 PSI)
Leakage at 150 SSU (32 cSt)	82 cc/min @ 210 Bar (3000 PSI)
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-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	.14 kg (.31 lbs.)
Cavity	C09-2 (See BC Section for more details)

Performance Curves

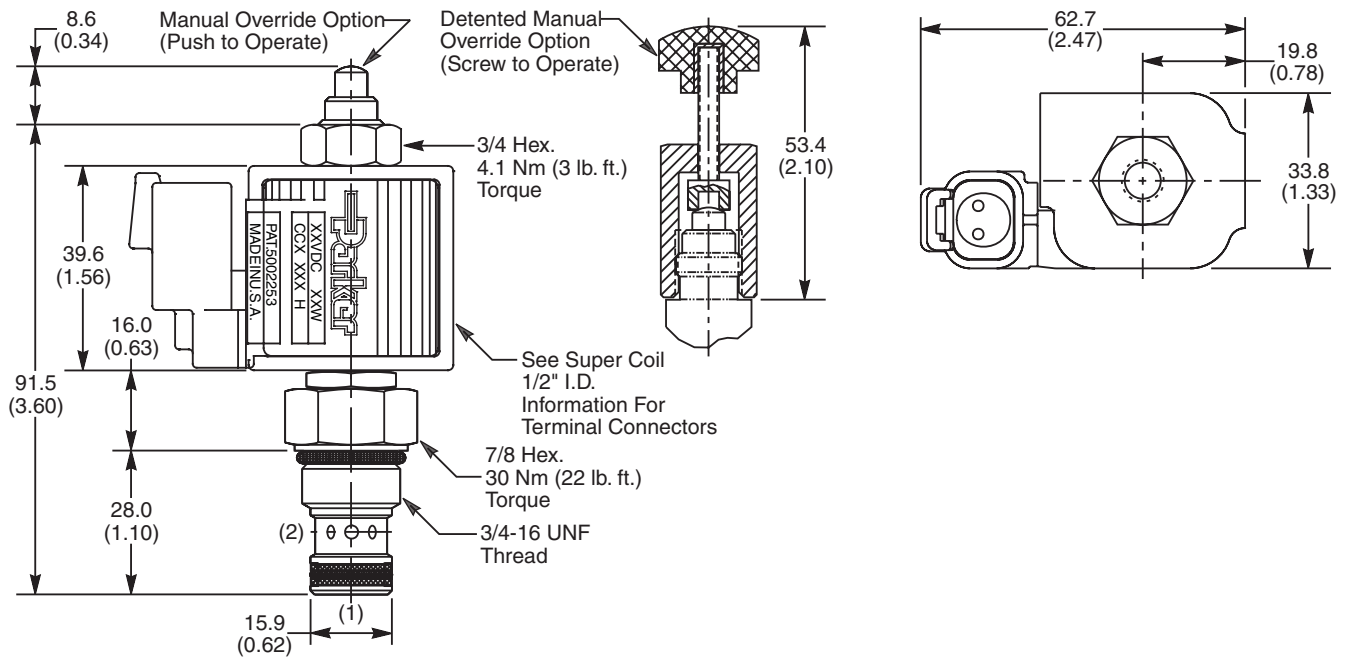
Pressure Drop vs. Flow (Through cartridge only)



Operating Limits (Measured at 75% of Nominal Current)



Dimensions Millimeters (Inches)



Ordering Information

GS02	22								
09 Size Solenoid Valve	Style Normally Closed	Override Option	Screen	Seals	Coil Type	Coil Voltage	Coil Termination	Body Material	Port Size

Code	Style
22	High Pressure ('SP' Coil)

Code	Seals / Kit No.
N	Nitrile / Buna-N (Std.) (SK30076N-1)
V	Fluorocarbon / (SK30076V-1)

Code	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*

Code	Body Material
Omit	Steel
A	Aluminum

Code	Override Options
0	None
1	Manual Override
2	Detented Part No. 900690

Code	Coil Type
Omit	Without Coil
SP	Super Coil - 19 Watts

Code	Port Size	Body Part No.
Omit		Cartridge Only
6T	SAE-6	(B09-2-*6T)
6B	3/8" BSPG	(B09-2-6B)†

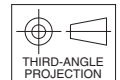
Code	Screen
0	None

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

*22 Watts

See Super Coil 1/2" I.D.
*DC Only

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



- 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

Technical Information

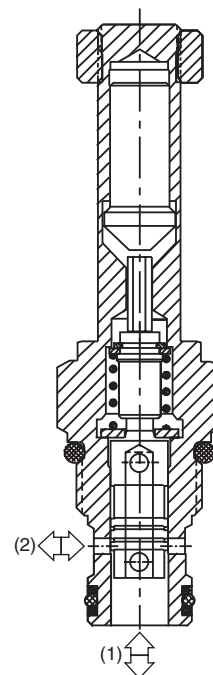
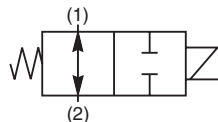
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General Description

2-Way, 2 Position, Normally Open Spool Valve.
For additional information see Technical Tips on pages SV1-SV6.

Features

- High flow capacity
- One piece cartridge housing ensures internal concentricity
- Coil: Waterproof, hermetically sealed, requires no O’Rings; Symmetrical coil can be reversed without affecting performance.

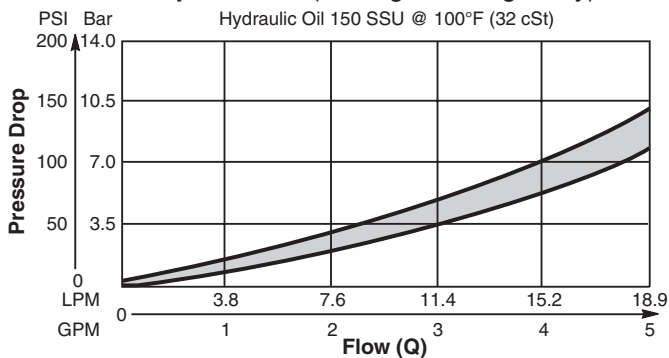


Specifications

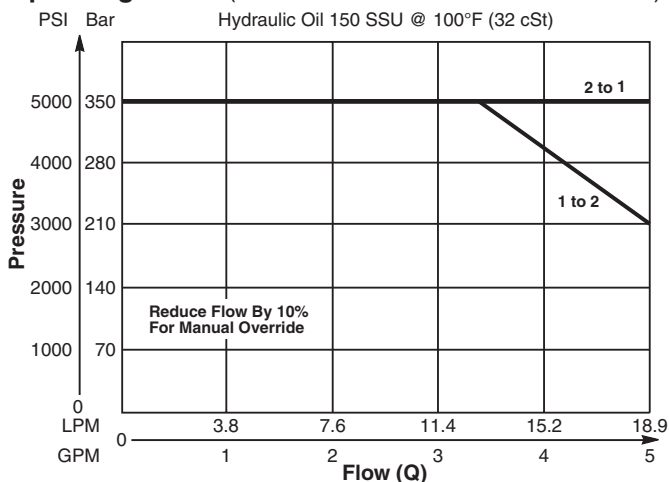
Rated Flow (At 70 PSI ΔP)	15 LPM (4 GPM)
Maximum Inlet Pressure	350 Bar (5000 PSI)
Leakage at 150 SSU (32 cSt)	82 cc/min @ 210 Bar (3000 PSI)
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).
Cartridge Material	All parts steel. All operating parts hardened steel.
Operating Temp. Range/Seals	-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	.14 kg (.31 lbs.)
Cavity	C09-2 (See BC Section for more details)

Performance Curves

Pressure Drop vs. Flow (Through cartridge only)

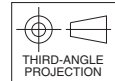
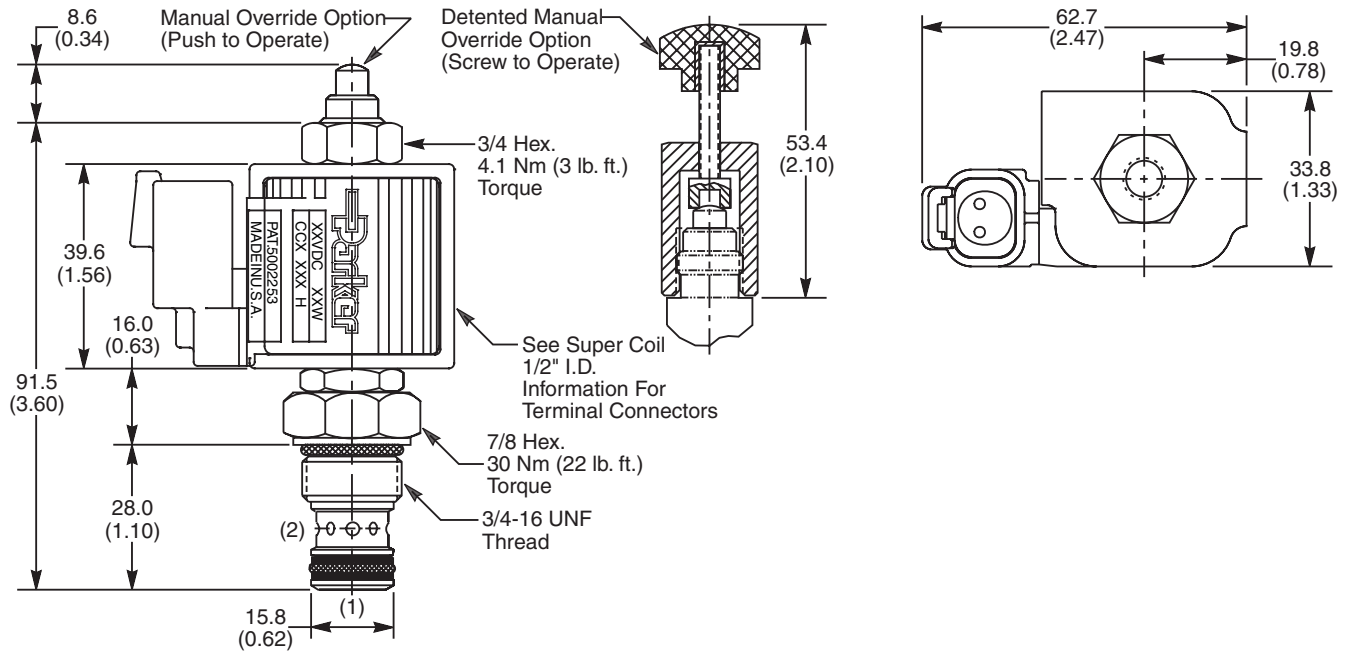


Operating Limits (Measured at 75% of Nominal Current)



Technical Information

Dimensions Millimeters (Inches)



Ordering Information

GS02	27								
09 Size Solenoid Valve	Style Normally Open	Override Option	Screen	Seals	Coil Type	Coil Voltage	Coil Termination	Body Material	Port Size

Code	Style
27	High Pressure ('SP' Coil)

Code	Seals / Kit No.
N	Nitrile / Buna-N (Std.) (SK30076N-1)
V	Fluorocarbon / (SK30076V-1)

Code	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*

Code	Body Material
Omit	Steel
A	Aluminum

Code	Override Options
0	None
1	Manual Override
2	Detented Part No. 900690

Code	Coil Type
Omit	Without Coil
SP	Super Coil - 19 Watts

Code	Port Size	Body Part No.
Omit	Cartridge Only	
6T	SAE-6	(B09-2-*6T)
6B	3/8" BSPG	(B09-2-6B)†

Code	Screen
0	None

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

*22 Watts

See Super Coil 1/2" I.D.
*DC Only

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

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General Description

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

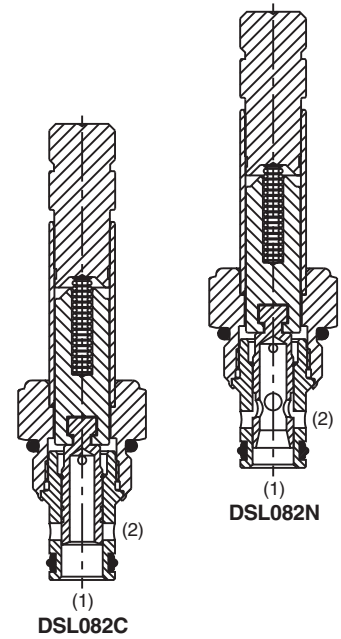
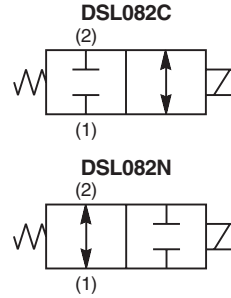


Features

- High flow capacity with reduced space requirements
- Standard valve bodies and common cavities
- One-piece encapsulated coil with minimal amperage draw
- Manual overrides, seal variations and other options available
- No dynamic seals
- Variety of coil terminations
- Polyurethane "D"-Ring eliminates need for backup rings
- Nylon inserted jam-nut provides secure holding in high vibration applications
- All external parts zinc plated

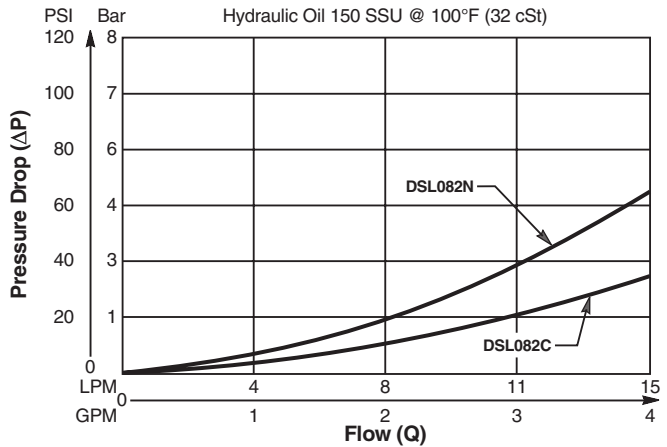
Specifications

Rated Flow	C - 15 LPM (4 GPM) N - 11 LPM (3 GPM)		
Maximum Inlet Pressure	250 Bar (3600 PSI)		
Leakage at 150 SSU (32cSt)	120 cc/min. (7.5 in ³ /min.) at 250 Bar (3600 PSI)		
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).		
Response Time		Energized	De-Energized
	C	40 ms	40 ms
	N	40 ms	40 ms
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 Finisher	None	NFT08-2F

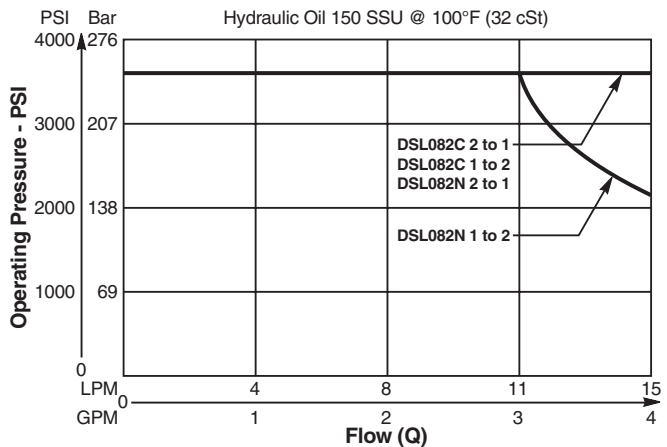


Performance Curves

Pressure Drop vs. Flow (Through cartridge only)

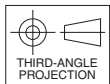
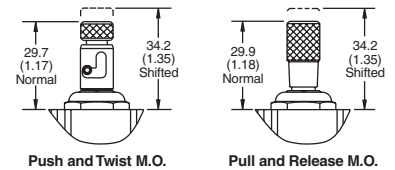
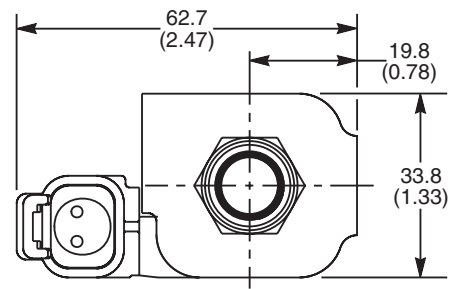
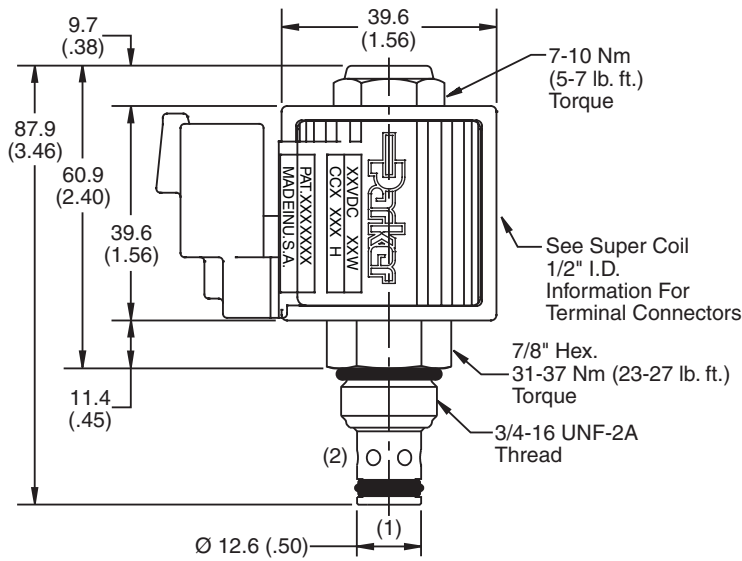


Shift Limit Characteristics (Min. Operating Voltage)

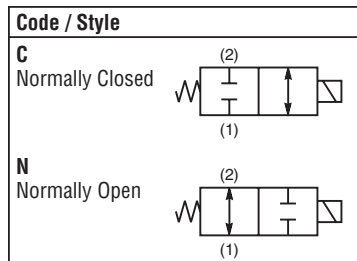
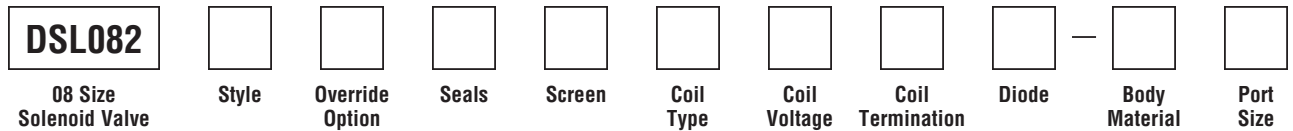


Technical Information

Dimensions Millimeters (Inches)



Ordering Information



Code	Override Options
Omit	None
P	Pull & Release
T	Push & Twist

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

*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

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

*Recommended
†DC Only

Code	Diode
Omit	None
R	Diode

Code	Body Material
Omit	Steel
A	Aluminum

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.

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General Description

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

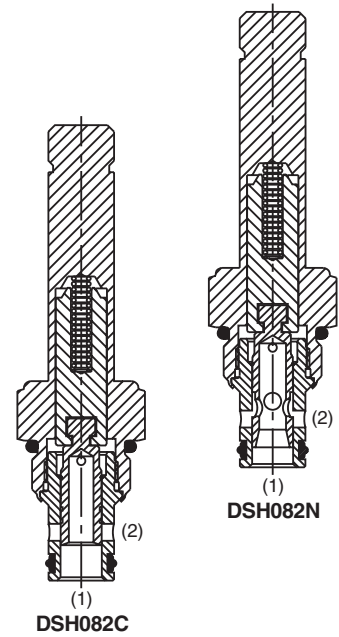
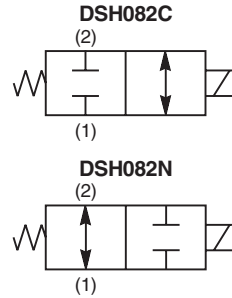


Features

- High flow capacity with reduced space requirements
- Standard valve bodies and common cavities
- One-piece encapsulated coil with minimal amperage draw
- Manual overrides, seal variations and other options available
- No dynamic seals
- Variety of coil terminations
- Polyurethane "D"-Ring eliminates need for backup rings
- Nylon inserted jam-nut provides secure holding in high vibration applications
- All external parts zinc plated

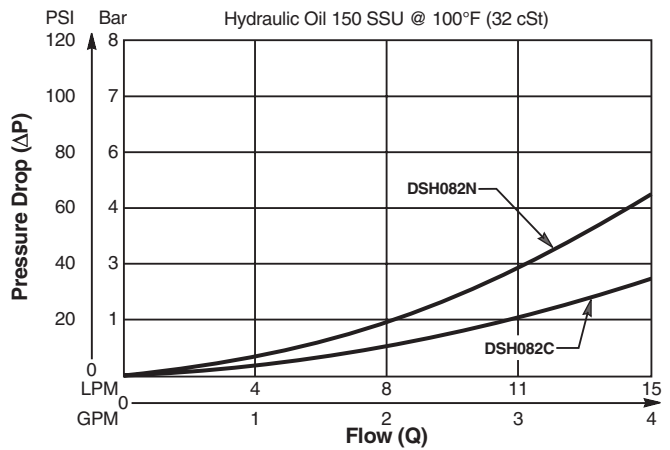
Specifications

Rated Flow	C - 15.0 LPM (4 GPM) N - 8.4 LPM (2.8 GPM)	
Maximum Inlet Pressure	350 Bar (5000 PSI)	
Leakage at 150 SSU (32 cSt)	160 cc/min. (10 in ³ /min.) at 350 Bar (5000 PSI)	
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).	
Response Time	C	De-Energized 40 ms
	N	De-Energized 40 ms
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 Finisher	None NFT08-2F

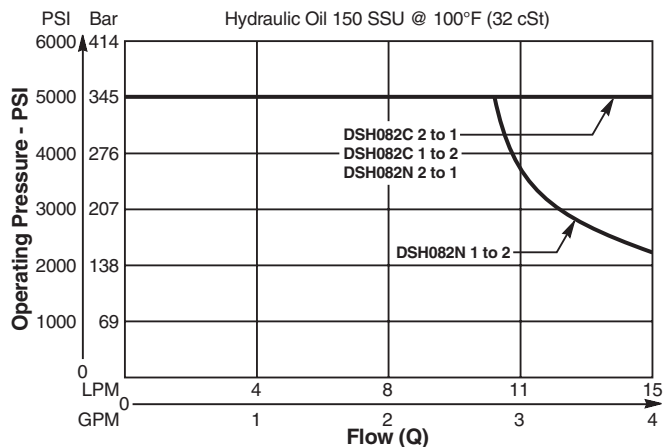


Performance Curves

Pressure Drop vs. Flow (Through cartridge only)



Shift Limit Characteristics (Min. Operating Voltage)



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General Description

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

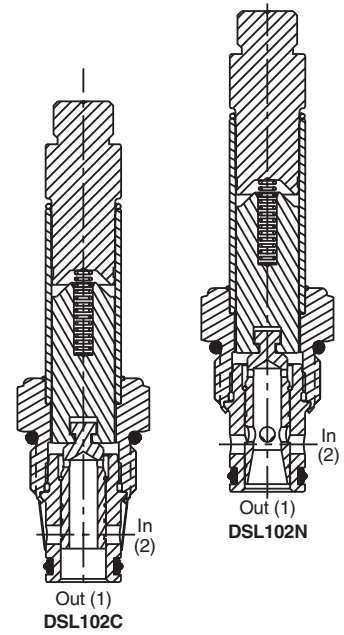
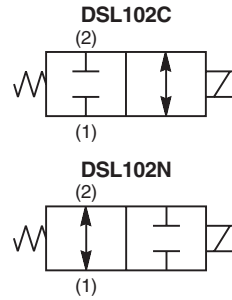


Features

- High flow capacity with reduced space requirements
- Standard valve bodies and common cavities
- One-piece encapsulated coil with minimal amperage draw
- Manual overrides, seal variations and other options available
- No dynamic seals
- Variety of coil terminations
- Polyurethane "D"-Ring
- All external parts zinc plated

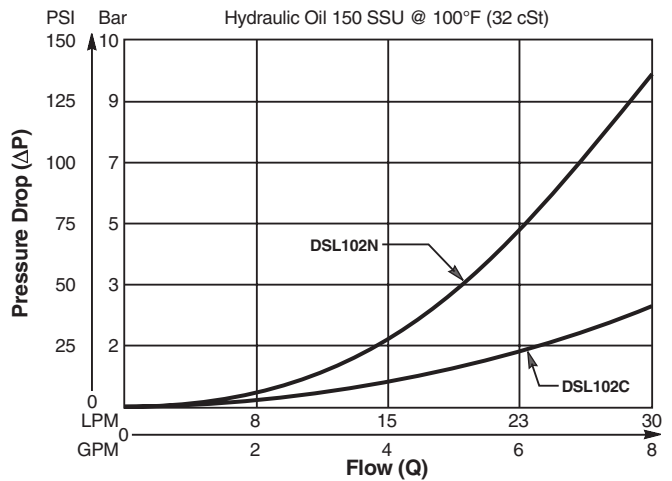
Specifications

Rated Flow	C - 30 LPM (8.0 GPM) N - 21 LPM (5.5 GPM)		
Maximum Inlet Pressure	250 Bar (3600 PSI)		
Leakage at 150 SSU (32 cSt)	120 cc/min. (7.5 in ³ /min.)		
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).		
Response Time	C	Energized	De-Energized
	N	30 ms	20 ms
		50 ms	25 ms
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	.18 kg (.41 lbs.)		
Cavity	C10-2 (See BC Section for more details)		
Form Tool	Rougher	None	
	Finisher	NFT10-2F	

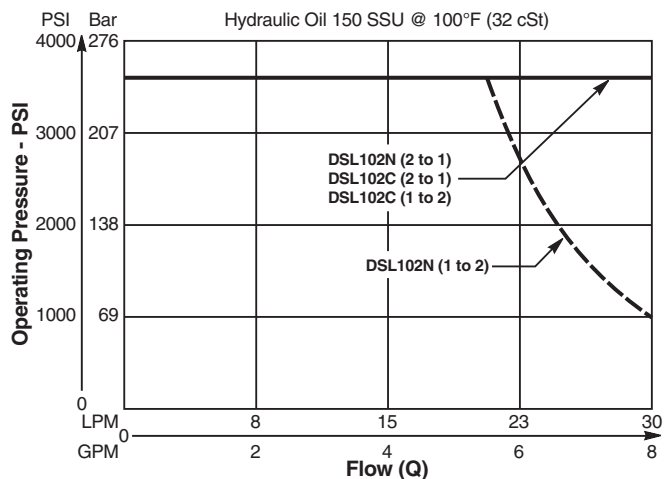


Performance Curves

Pressure Drop vs. Flow (Through cartridge only)

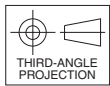
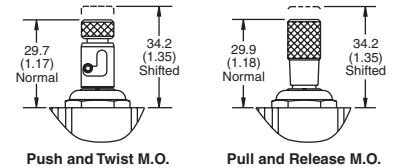
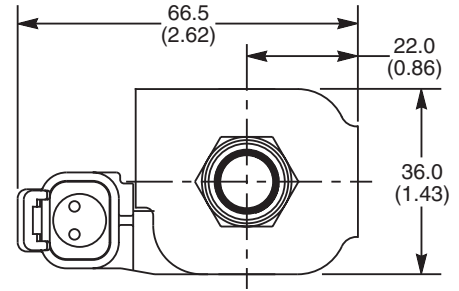
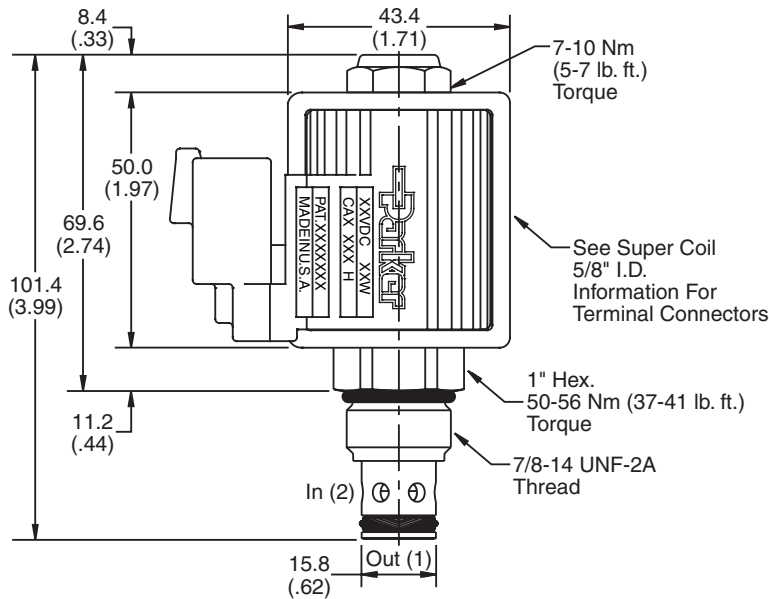


Shift Limit Characteristics (Min. Operating Voltage)

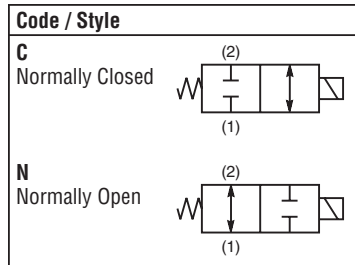
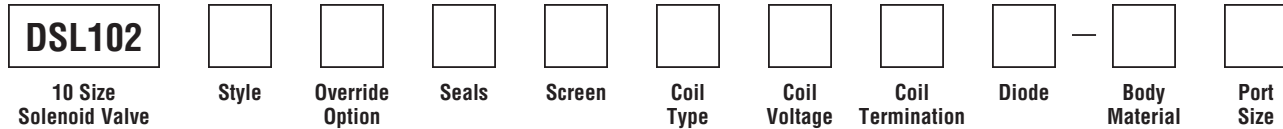


Technical Information

Dimensions Millimeters (Inches)



Ordering Information



Code	Override Options
Omit	None
P	Pull & Release
T	Push & Twist

Code	Seals / Kit No.
Omit	"D"-Ring / (SK10-2)
N	Nitrile / (SK10-2N)
V	Fluorocarbon / (SK10-2V)

Code	Screen
Omit	None
S	Screen

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

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

*Recommended
†DC Only

Code	Diode
Omit	None
R	Diode

Code	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
4P	1/4" NPTF	(B10-2-*4P)
6P	3/8" NPTF	(B10-2-*6P)
8P	1/2" NPTF	(B10-2-*8P)
6T	SAE-6	(B10-2-*6T)
8T	SAE-8	(B10-2-*8T)
T8T	SAE-8	(B10-2-T8T)†
6B	3/8" BSPG	(B10-2-6B)†

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

Technical Information

- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
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2-Way Spool Valves. For additional information see Technical Tips on pages SV1-SV6.

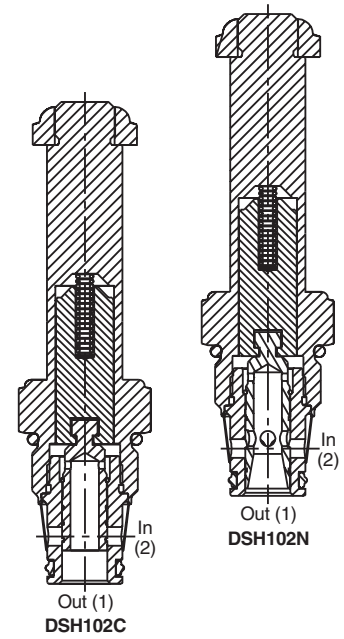
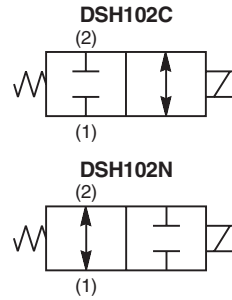


Features

- High flow capacity with reduced space requirements
- Standard valve bodies and common cavities
- One-piece encapsulated coil with minimal amperage draw
- Manual overrides, seal variations and other options available
- No dynamic seals
- Variety of coil terminations
- Polyurethane "D"-Ring eliminates need for backup rings
- Nylon inserted jam-nut provides secure holding in high vibration applications
- All external parts zinc plated

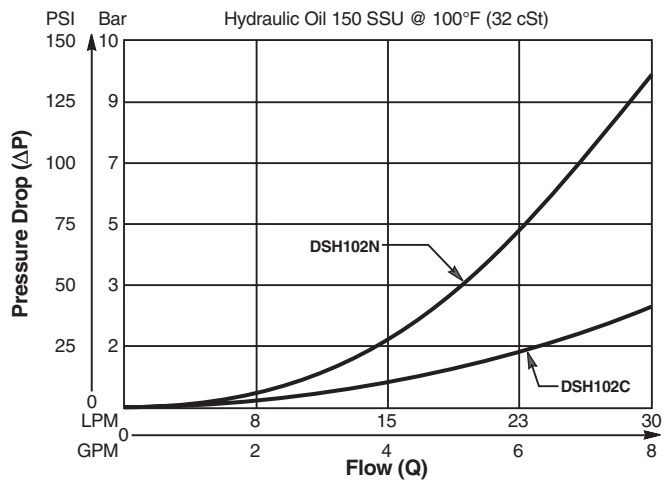
Specifications

Rated Flow	C - 30 LPM (8.0 GPM) N - 19 LPM (5.0 GPM)									
Maximum Inlet Pressure	350 Bar (5000 PSI)									
Leakage at 150 SSU (32 cSt)	160 cc/min. (10 in ³ /min.)									
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).									
Response Time	<table border="1" style="display: inline-table; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Energized</th> <th>De-Energized</th> </tr> </thead> <tbody> <tr> <td>C</td> <td>30 ms</td> <td>20 ms</td> </tr> <tr> <td>N</td> <td>50 ms</td> <td>25 ms</td> </tr> </tbody> </table>		Energized	De-Energized	C	30 ms	20 ms	N	50 ms	25 ms
	Energized	De-Energized								
C	30 ms	20 ms								
N	50 ms	25 ms								
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	.18 kg (.40 lbs.)									
Cavity	C10-2 (See BC Section for more details)									
Form Tool	Rougher None Finisher NFT10-2F									

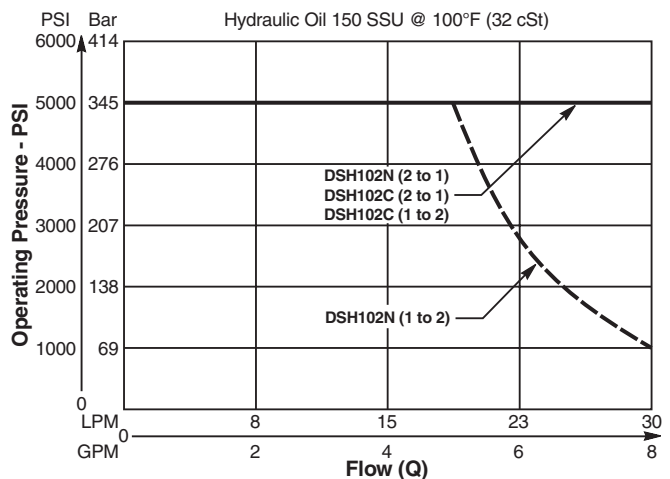


Performance Curves

Pressure Drop vs. Flow (Through cartridge only)

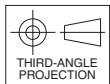
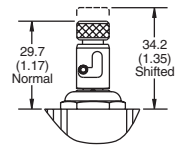
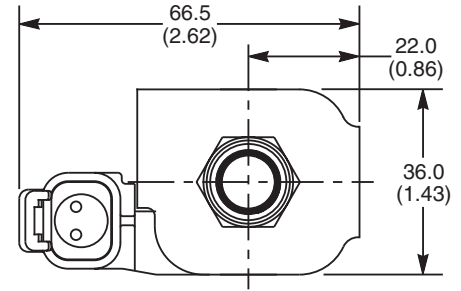
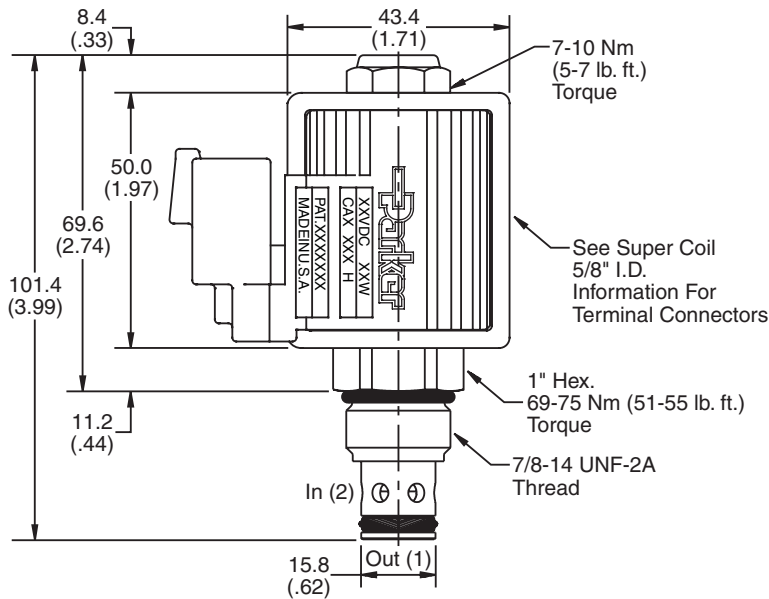


Shift Limit Characteristics (Min. Operating Voltage)

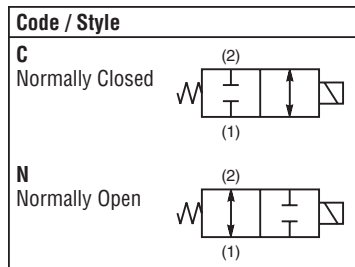
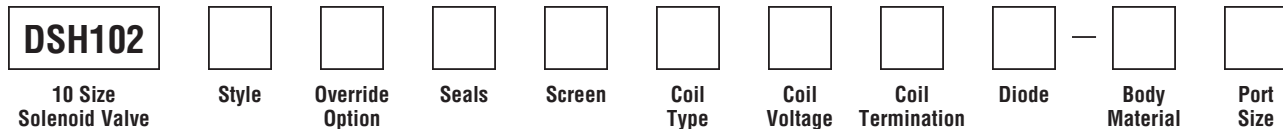


Technical Information

Dimensions Millimeters (Inches)



Ordering Information



Code	Seals / Kit No.
Omit	"D"-Ring / (SK10-2)
N	Nitrile / (SK10-2N)
V	Fluorocarbon / (SK10-2V)

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	Screen
Omit	None
S	Screen

Code	Body Material
Omit	Steel
A	Aluminum

Code	Override Options
Omit	None
T	Push & Twist (N.C. & N.O.)

Code	Coil Type
Omit	Without Coil
SP*	Super Coil - 28 Watts

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

Code	Port Size	Body Part No.
Omit	Cartridge Only	
4P	1/4" NPTF	(B10-2-*4P)
6P	3/8" NPTF	(B10-2-*6P)
8P	1/2" NPTF	(B10-2-*8P)
6T	SAE-6	(B10-2-*6T)
8T	SAE-8	(B10-2-*8T)
T8T	SAE-8	(B10-2-T8T)†
6B	3/8" BSPG	(B10-2-6B)†

*Recommended
†DC Only

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

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

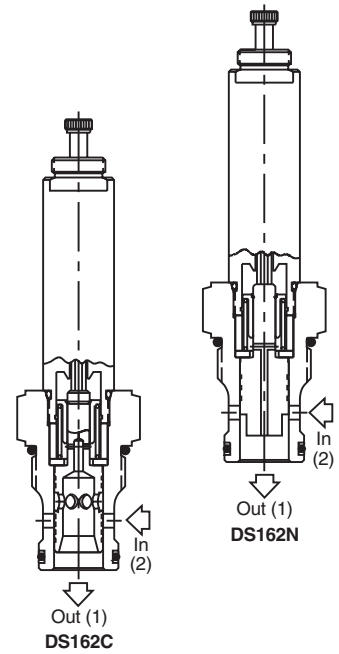
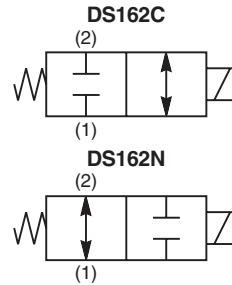
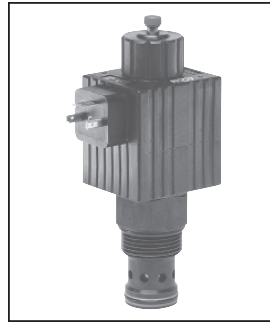
2-Way Spool Valves. For additional information see Technical Tips on pages SV1-SV6.

Features

- Low hysteresis
- One-piece encapsulated coil with minimal amperage draw
- Variety of coil terminations and voltages
- Manual override standard (push and release)
- All external parts zinc plated

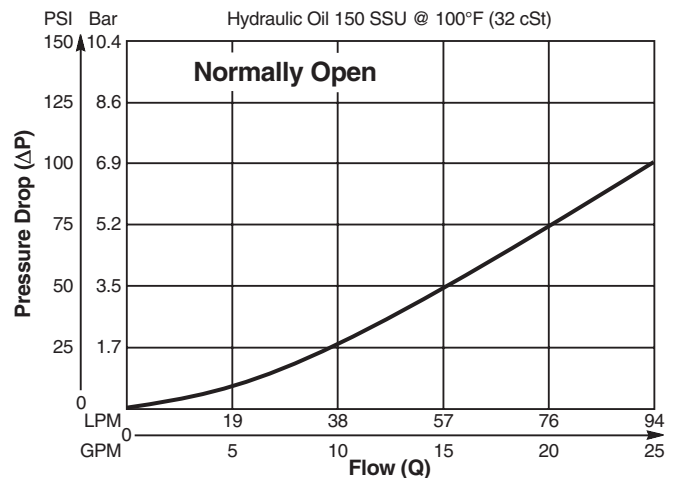
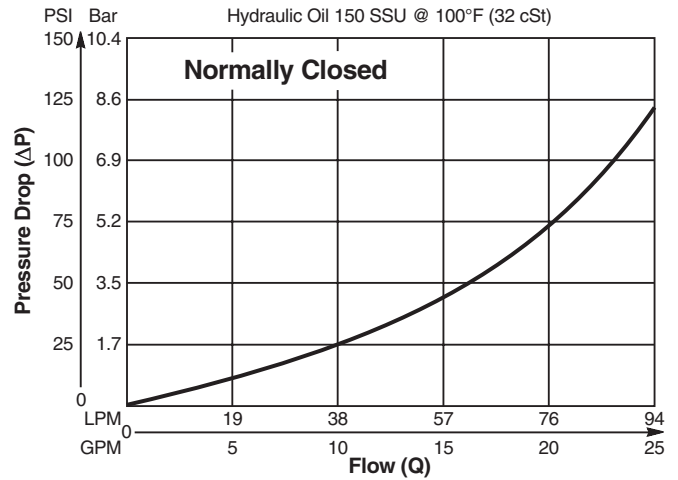
Specifications

Rated Flow	75 LPM (20 GPM)
Maximum Inlet Pressure	210 Bar (3000 PSI)
Leakage at 150 SSU (32 cSt)	240 cc/min. (15 in ³ /min.)
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).
Response Time	C - 90 ms N - 100 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	.59 kg (1.3 lbs.)
Cavity	C16-2 (See BC Section for more details)
Form Tool	Rougher None Finisher NFT16-2F



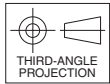
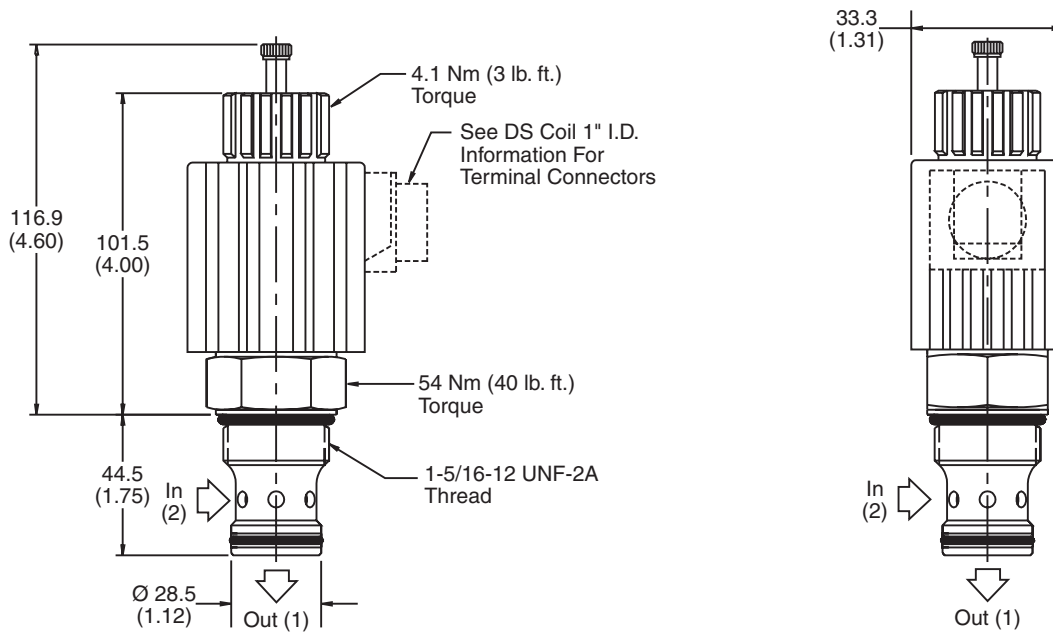
Performance Curves

Pressure Drop vs. Flow (Through cartridge only)

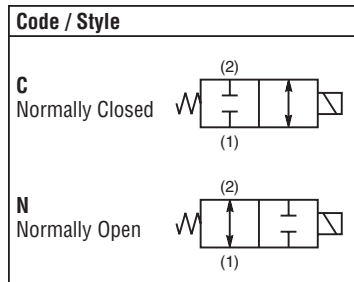
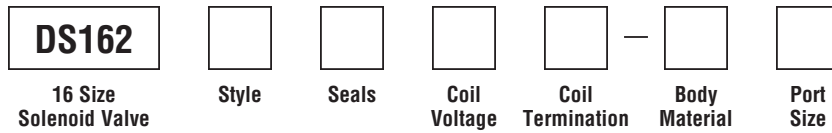


Technical Information

Dimensions Millimeters (Inches)



Ordering Information



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

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

Code	Coil Termination
Omit	Without Coil
C	Conduit (AC Only)
D	DIN Plug Face
P	Dual Spade (DC Only)
S	Dual Screw (DC Only)
W	Dual Lead (DC Only)

See DS coil 1" I.D.

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.

- CV**
Check Valves
- SH**
Shuttle Valves
- LM**
Load/Motor Controls
- FC**
Flow Controls
- PC**
Pressure Controls
- LE**
Logic Elements
- DC**
Directional Controls
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Technical Data