

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

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

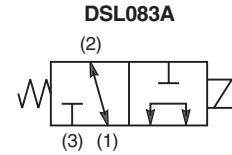


Features

- High flow capacity with reduced space requirements
- Standard valve bodies and common cavities
- One piece encapsulated coils 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

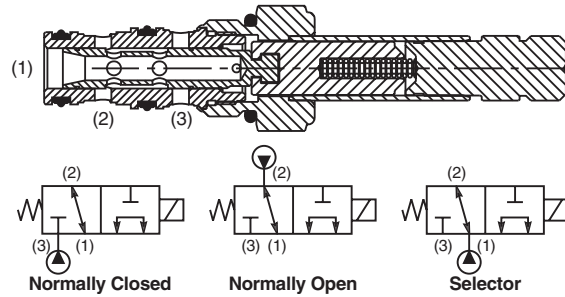
Specifications

Rated Flow	DSL083A	N.O. 13.2 LPM (3.5 GPM)
		N.C. 8.4 LPM (2.25 GPM)
	DSL083B	Selector 8.4 LPM (2.25 GPM)
		N.C. 15.0 LPM (4.0 GPM)
	DSL083C	Selector 15.0 LPM (4.0 GPM)
		N.O. 15.0 LPM (4.0 GPM)
	DSL083N	N.O. 12.3 LPM (3.25 GPM)
		Selector 15.0 LPM (4.0 GPM)
Maximum Inlet Pressure	250 Bar (3600 PSI)	
Leakage at 150 SSU (32 cSt)	120 cc/min. (7.5 in ³ /min.) at 250 Bar (3600 PSI) DSL083B - 180 cc/min. (11 in ³ /min.) DSL083N - 180 cc/min. (11 in ³ /min.)	
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).	
Response Time	50 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	.13 kg (.28 lbs.)	
Cavity	C08-3 (See BC Section for more details)	
Form Tool	Rougher	NFT08-3R
	Finisher	NFT08-3F

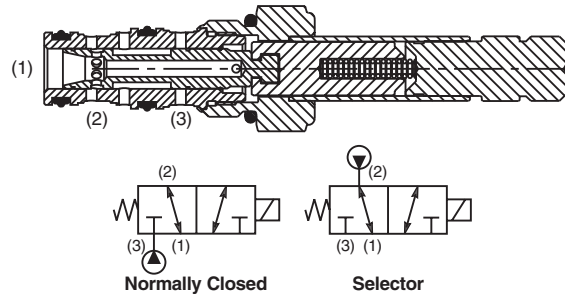


Construction/Symbols

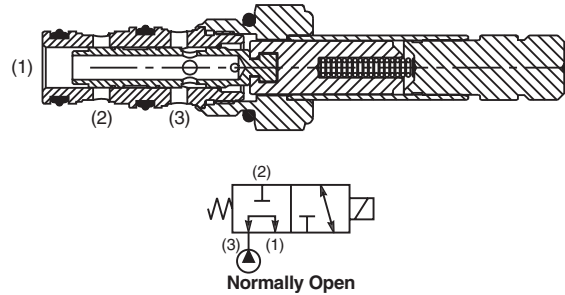
DSL083A



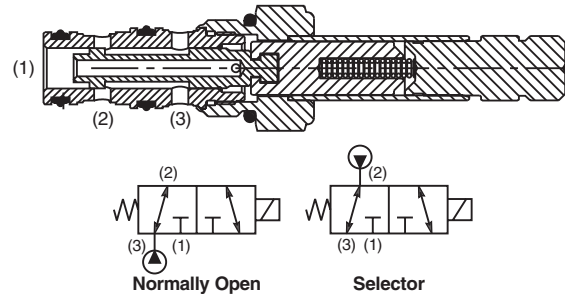
DSL083B



DSL083C

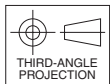
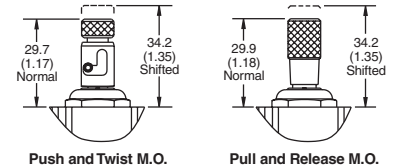
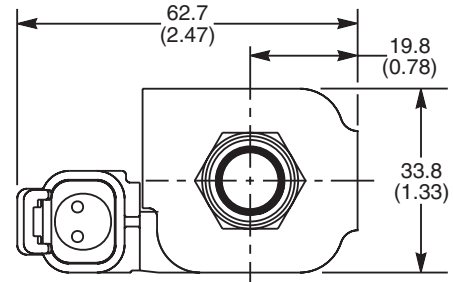
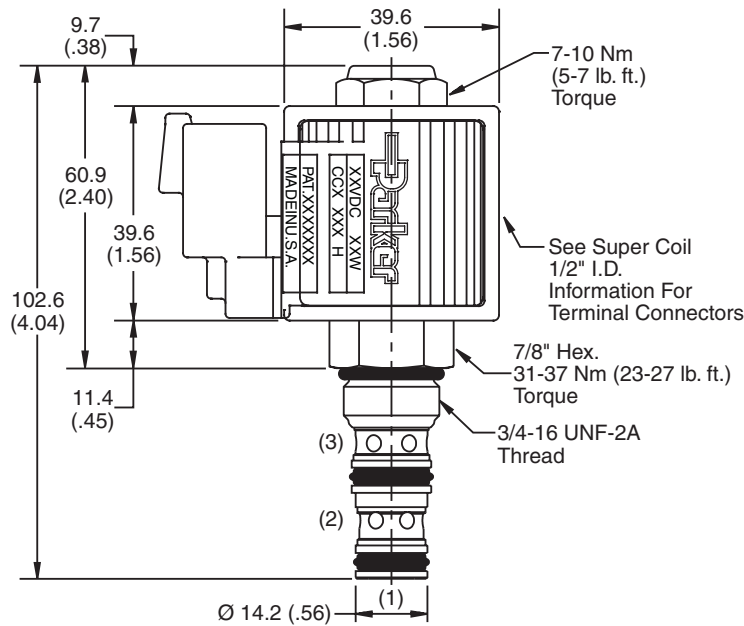


DSL083N

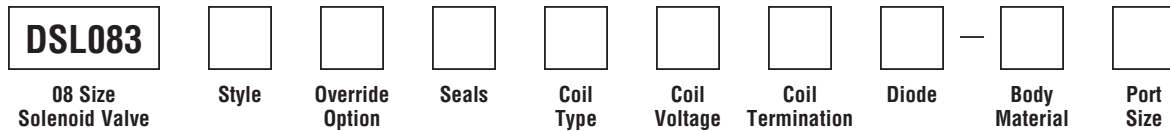


Technical Information

Dimensions Millimeters (Inches)



Ordering Information



Code	Style
A	
B	
C	
N	

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

Code	Seals / Kit No.
Omit	"D"-Ring / (SK08-3)
N	Nitrile / (SK08-3N)
V	Fluorocarbon / (SK08-3V)

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 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

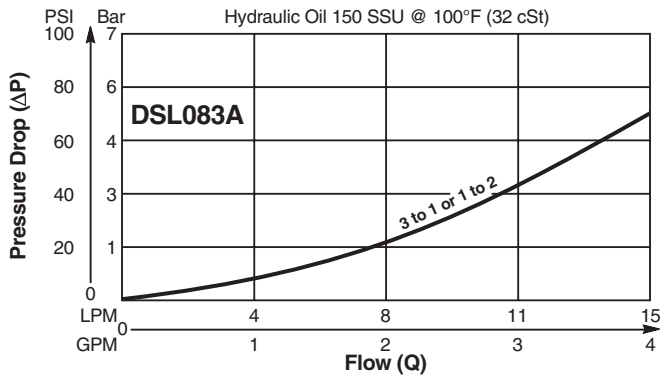
Code	Port Size	Body Part No.
Omit	Cartridge Only	
4P	1/4" NPTF	(B08-3-*4P)
4T	SAE-4	(B08-3-*4T)
6T	SAE-6	(B08-3-*6T)
6B	3/8" BSPG	(B08-3-*6B)

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

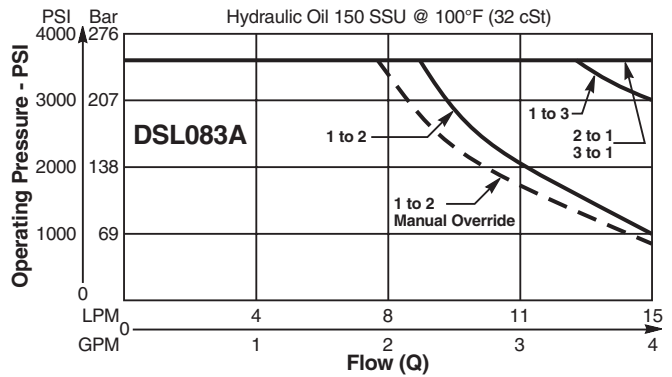
Performance Curves

- 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
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- CE** Coils & Electronics
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- TD** Technical Data

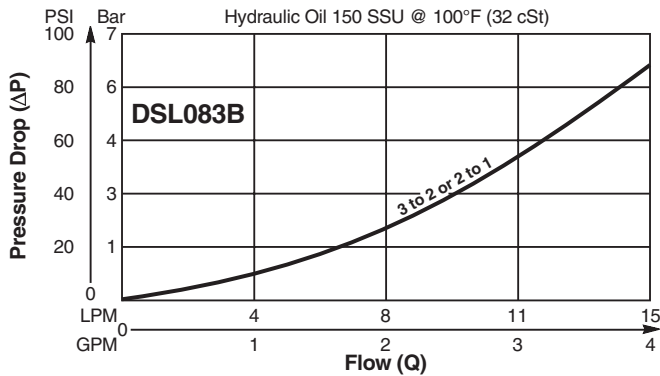
Pressure Drop vs. Flow (Through cartridge only)



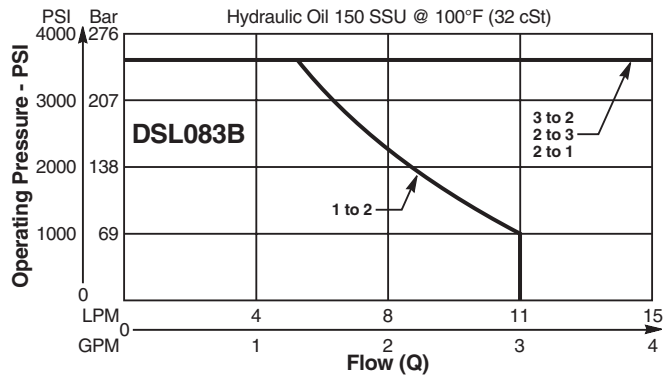
Shift Limit Characteristics (Min. Operating Voltage)



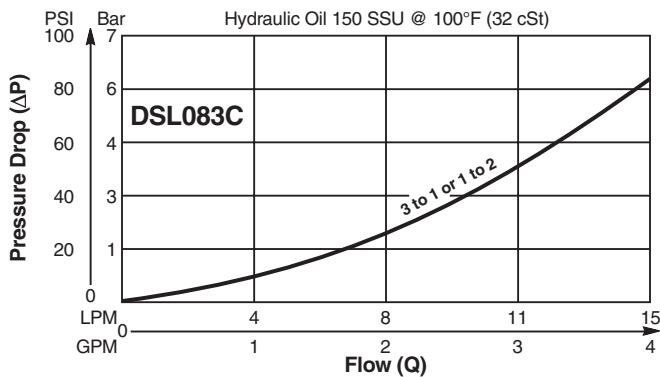
Pressure Drop vs. Flow (Through cartridge only)



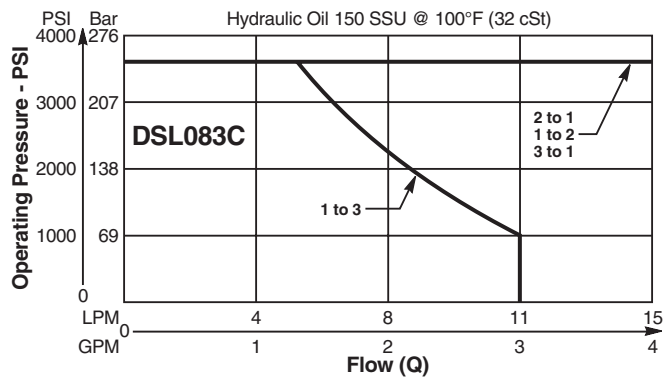
Shift Limit Characteristics (Min. Operating Voltage)



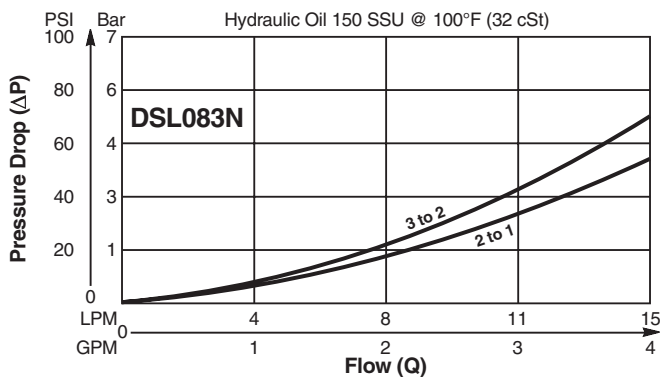
Pressure Drop vs. Flow (Through cartridge only)



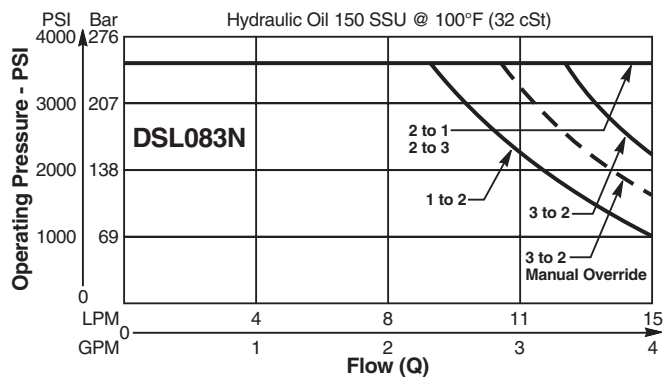
Shift Limit Characteristics (Min. Operating Voltage)



Pressure Drop vs. Flow (Through cartridge only)



Shift Limit Characteristics (Min. Operating Voltage)



Technical Information

General Description

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

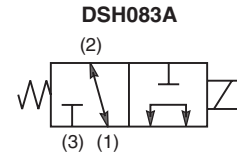


Features

- High flow capacity with reduced space requirements
- Standard valve bodies and common cavities
- One piece encapsulated coils 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

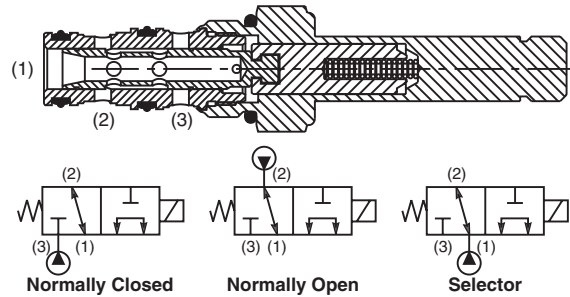
Specifications

Rated Flow	DSH083A	N.O.	11.3 LPM (3.0 GPM)
		N.C.	7.5 LPM (2.0 GPM)
		Selector	7.5 LPM (2.0 GPM)
	DSH083B	N.C.	15.0 LPM (4.0 GPM)
		Selector	15.0 LPM (4.0 GPM)
	DSH083C	N.O.	15.0 LPM (4.0 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)	
		DSH083B - 250 cc/min. (15 in ³ /min.)	
DSH083N - 250 cc/min. (15 in ³ /min.)			
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).		
Response Time	50 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	.13 kg (.28 lbs.)		
Cavity	C08-3 (See BC Section for more details)		
Form Tool	Rougher	NFT08-3R	
	Finisher	NFT08-3F	

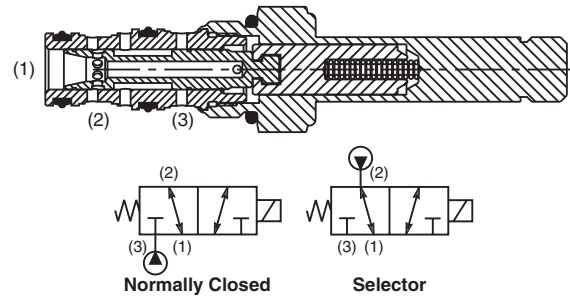


Construction/Symbols

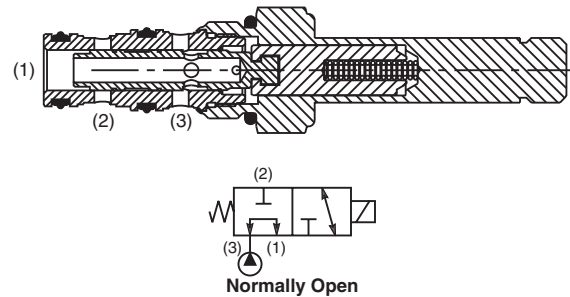
DSH083A



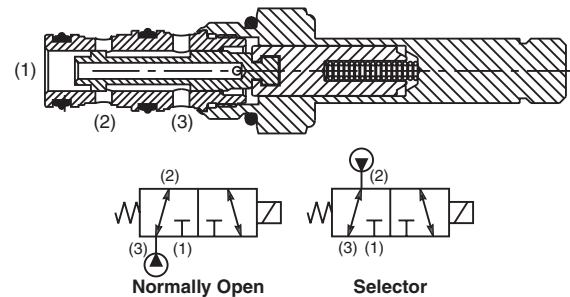
DSH083B



DSH083C



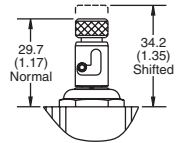
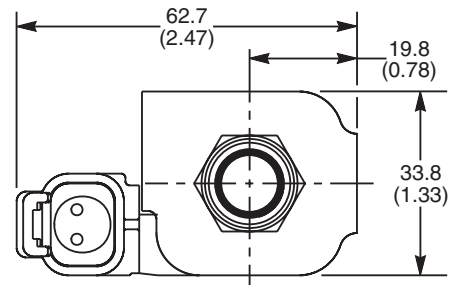
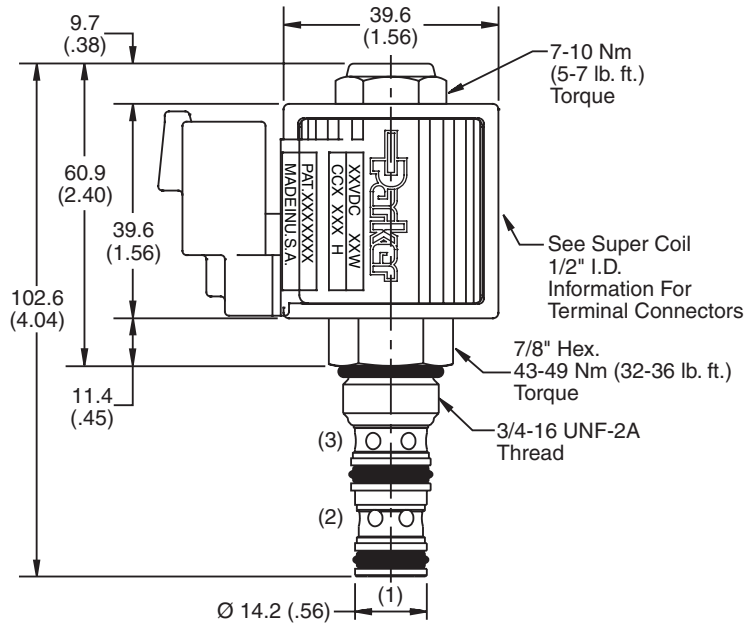
DSH083N



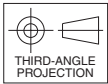
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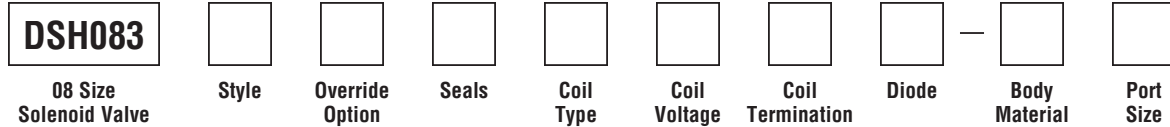
Dimensions Millimeters (Inches)



Push and Twist M.O.



Ordering Information



Code	Style
A	
B	
C	
N	

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

Code	Seals / Kit No.
Omit	"D"-Ring / (SK08-3)
N	Nitrile / (SK08-3N)
V	Fluorocarbon / (SK08-3V)

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

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 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	Diode
Omit	None
R	Diode

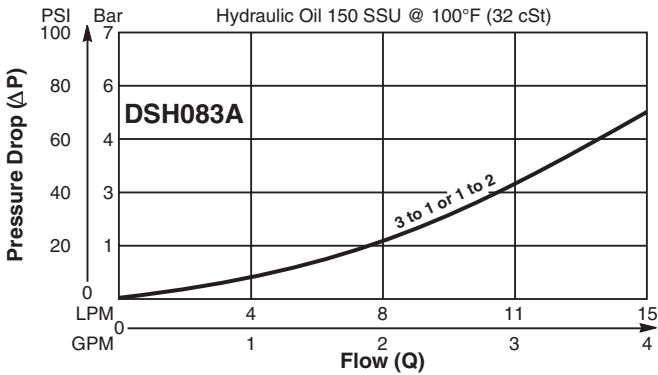
Code	Body Material
Omit	Steel
A	Aluminum

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

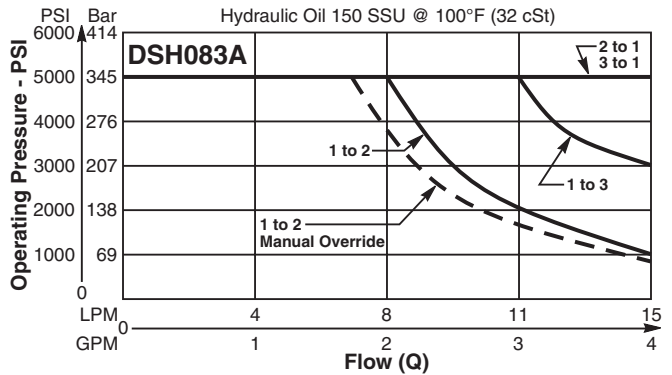
* Add "A" for aluminum, omit for steel.

*Recommended
†DC Only

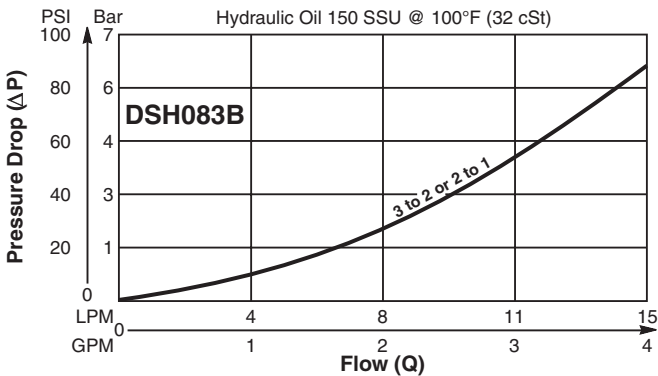
Pressure Drop vs. Flow (Through cartridge only)



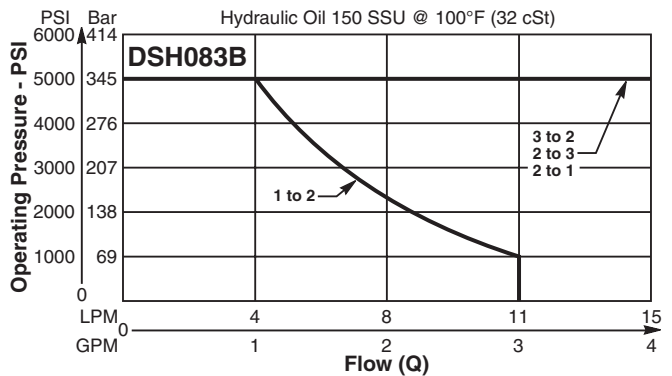
Shift Limit Characteristics (Min. Operating Voltage)



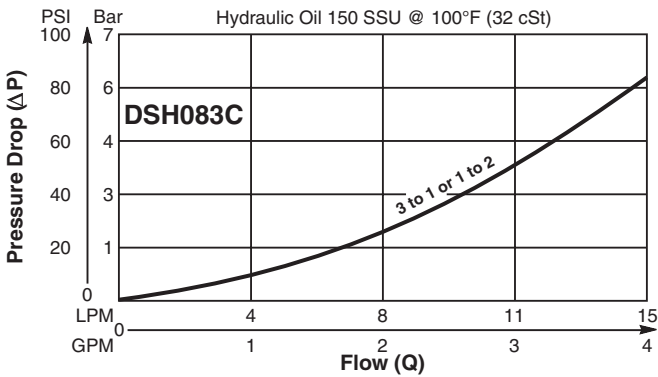
Pressure Drop vs. Flow (Through cartridge only)



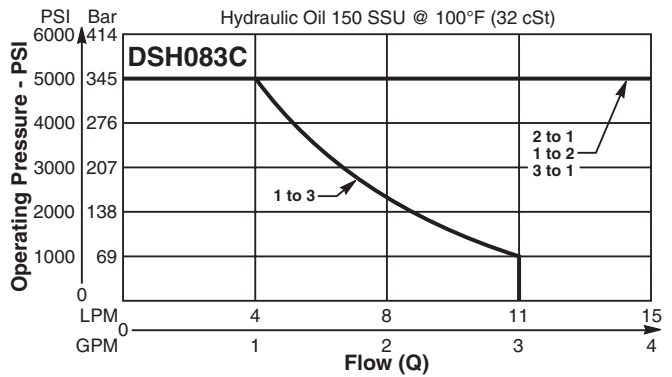
Shift Limit Characteristics (Min. Operating Voltage)



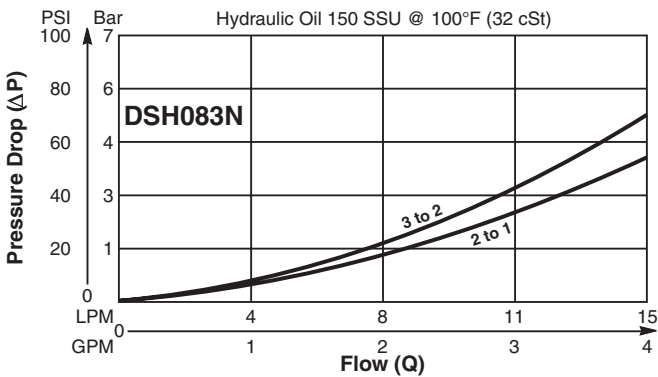
Pressure Drop vs. Flow (Through cartridge only)



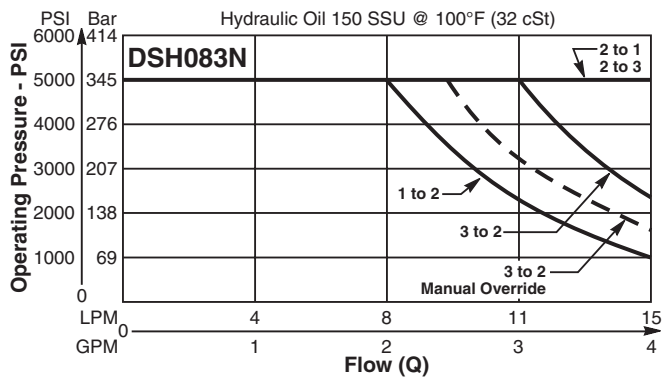
Shift Limit Characteristics (Min. Operating Voltage)



Pressure Drop vs. Flow (Through cartridge only)



Shift Limit Characteristics (Min. Operating Voltage)



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General Description

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

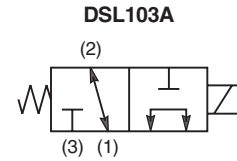


Features

- 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

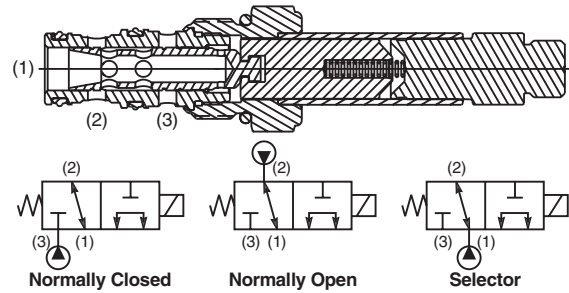
Specifications

Rated Flow	DSL103A	N.O.	22.7 LPM (6.0 GPM)	
		N.C.	17.0 LPM (4.5 GPM)	
		Selector	17.0 LPM (4.5 GPM)	
	DSL103B	N.C.	30.2 LPM (8.0 GPM)	
		Selector	30.2 LPM (8.0 GPM)	
	DSL103C	N.O.	30.2 LPM (8.0 GPM)	
	DSL103N	N.O.	18.8 LPM (5.0 GPM)	
		N.C.	18.8 LPM (5.0 GPM)	
		Selector	30.2 LPM (8.0 GPM)	
	Maximum Inlet Pressure	250 Bar (3600 PSI)		
	Leakage at 150 SSU (32 cSt)	120 cc/min. (7.5 in ³ /min.) DSL103B - 180 cc/min. (11 in ³ /min.) DSL103N - 180 cc/min. (11 in ³ /min.)		
	Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).		
Response Time	50 ms to 100 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	.19 kg (.42 lbs.)			
Cavity	C10-3 (See BC Section for more details)			
Form Tool	Rougher	NFT10-3R		
	Finisher	NFT10-3F		

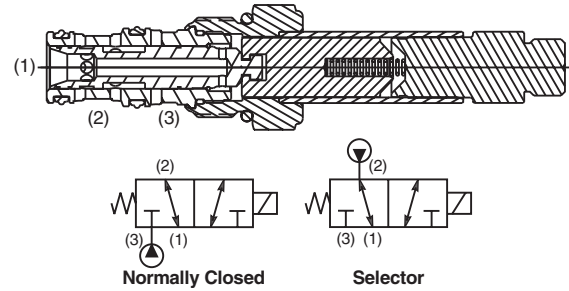


Construction/Symbols

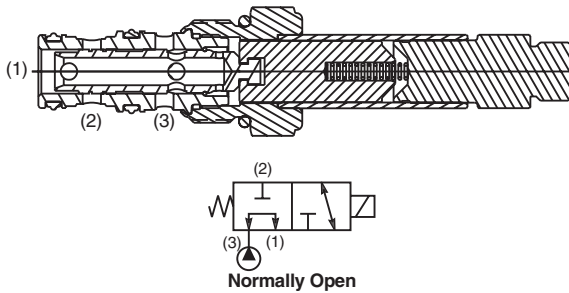
DSL103A



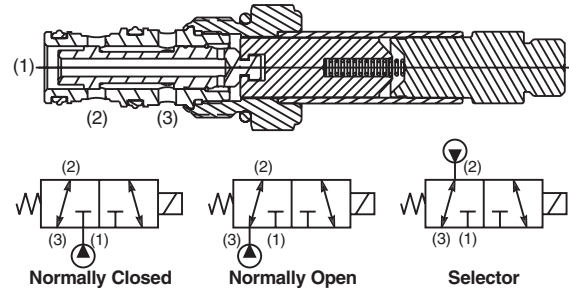
DSL103B



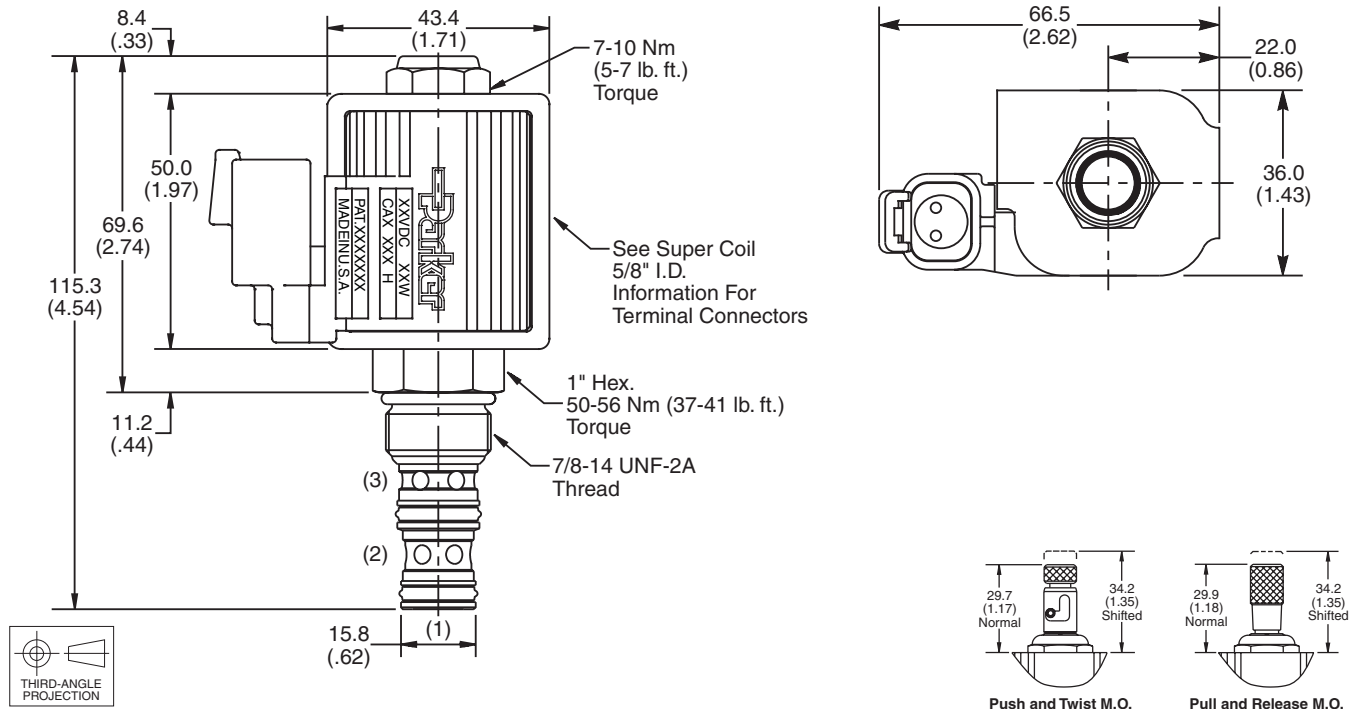
DSL103C



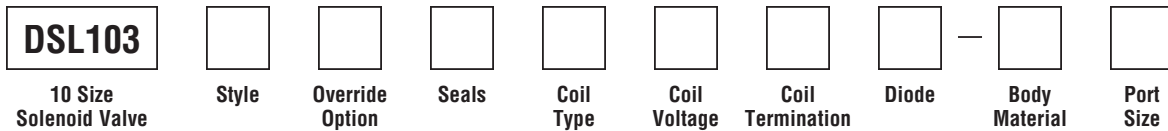
DSL103N



Dimensions Millimeters (Inches)



Ordering Information



Code	Style
A	
B	
C	
N	

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

Code	Seals / Kit No.
Omit	"D"-Ring / (SK10-3)
N	Nitrile / (SK10-3N)
V	Fluorocarbon / (SK10-3V)

Code	Coil Type
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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
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SP*	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†
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*Recommended
†DC Only

Code	Diode
Omit	None
R	Diode

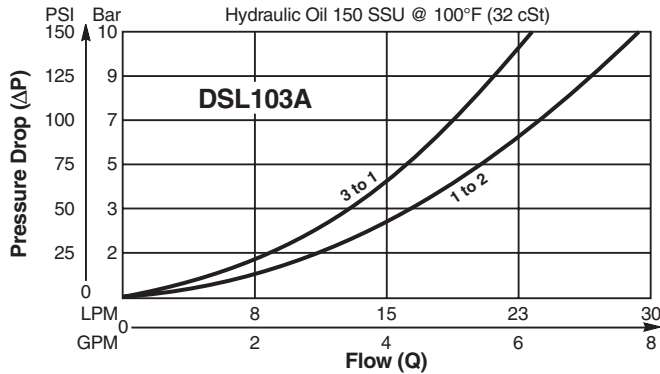
Code	Body Material
Omit	Steel
A	Aluminum

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

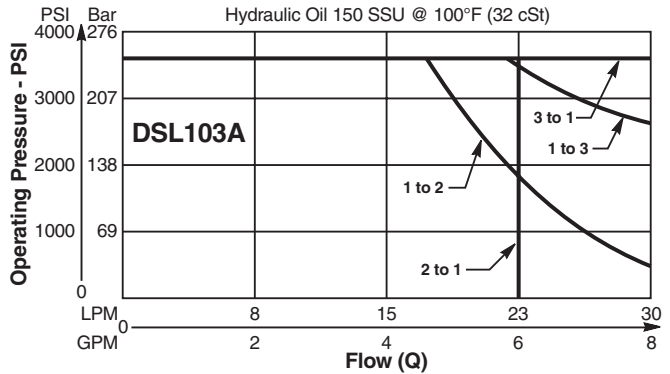
* Add "A" for aluminum, omit for steel.
† Steel bodies only.

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- BC** Bodies & Cavities
- TD** Technical Data

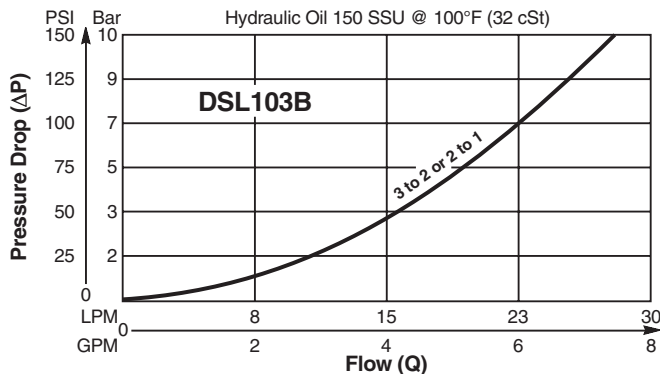
Pressure Drop vs. Flow (Through cartridge only)



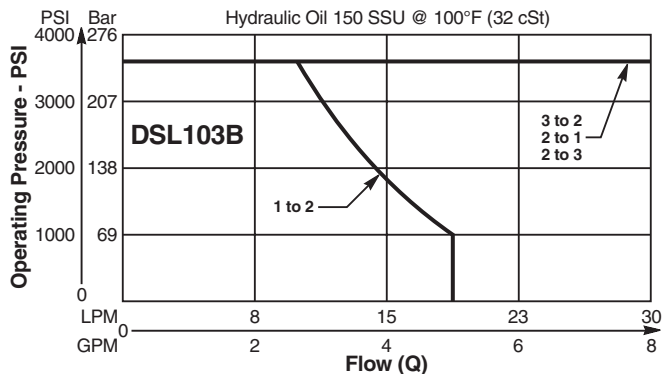
Shift Limit Characteristics (Min. Operating Voltage)



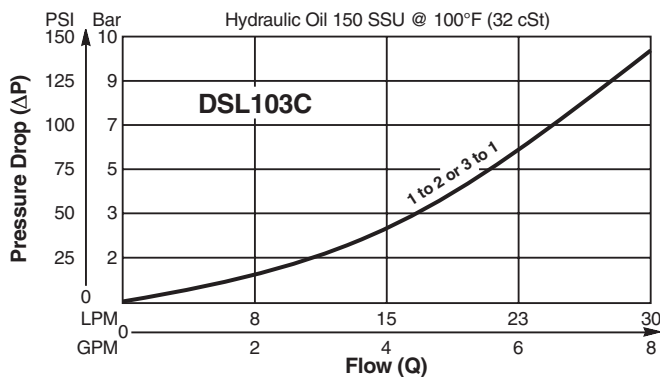
Pressure Drop vs. Flow (Through cartridge only)



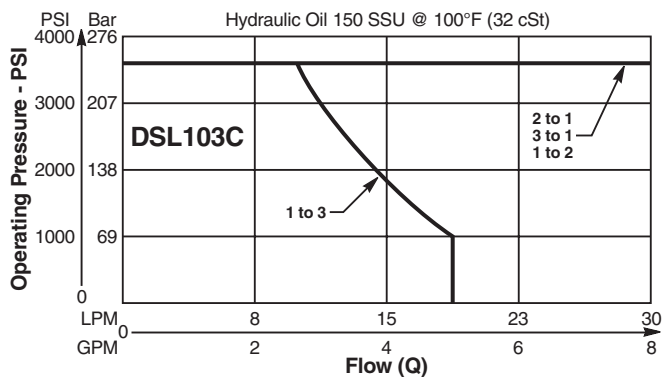
Shift Limit Characteristics (Min. Operating Voltage)



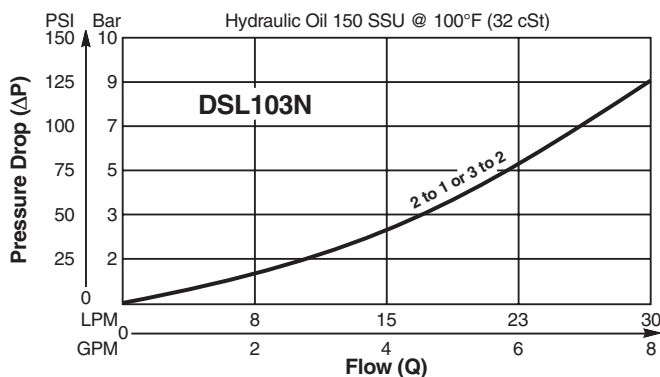
Pressure Drop vs. Flow (Through cartridge only)



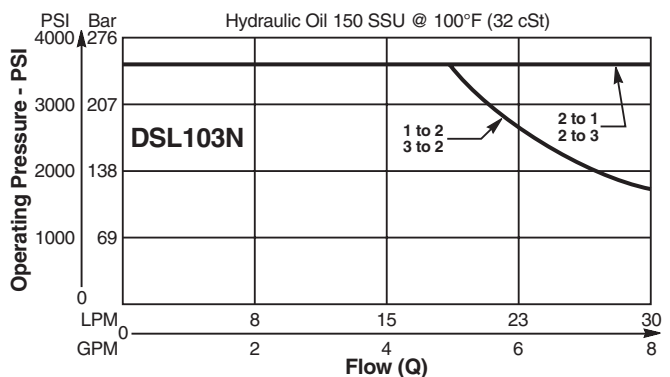
Shift Limit Characteristics (Min. Operating Voltage)



Pressure Drop vs. Flow (Through cartridge only)



Shift Limit Characteristics (Min. Operating Voltage)



Technical Information

General Description

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

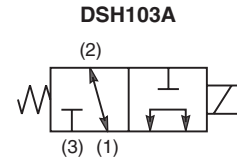


Features

- 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

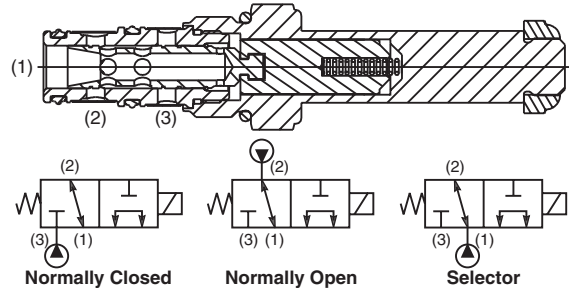
Specifications

Rated Flow	DSH103A	N.O. 17.0 LPM (4.5 GPM)
		N.C. 15.0 LPM (4.0 GPM)
	DSH103B	N.O. 30.0 LPM (8.0 GPM)
		Selector 30.0 LPM (8.0 GPM)
	DSH103C	N.O. 30.0 LPM (8.0 GPM)
		N.O. 15.0 LPM (4.0 GPM)
	DSH103N	N.C. 15.0 LPM (4.0 GPM)
		Selector 30.0 LPM (8.0 GPM)
Maximum Inlet Pressure	350 Bar (5000 PSI)	
Leakage at 150 SSU (32 cSt)	160 cc/min. (10 in ³ /min.) DSH103B - 250 cc/min. (15 in ³ /min.) DSH103N - 250 cc/min. (15 in ³ /min.)	
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).	
Response Time	50 ms to 100 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	.19 kg (.42 lbs.)	
Cavity	C10-3 (See BC Section for more details)	
Form Tool	Rougher NFT10-3R	Finisher NFT10-3F

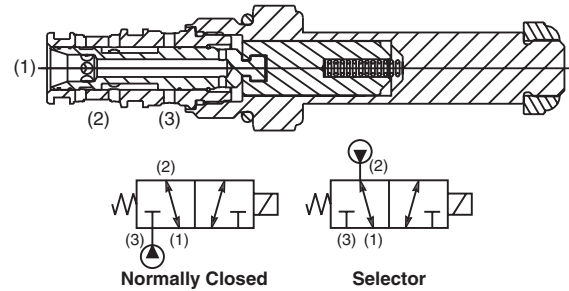


Construction/Symbols

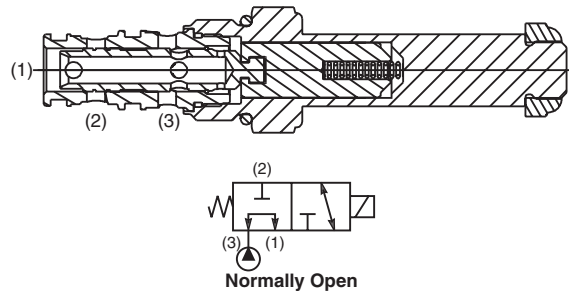
DSH103A



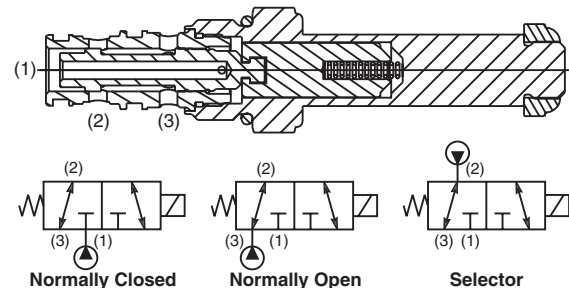
DSH103B



DSH103C



DSH103N



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

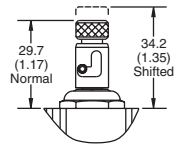
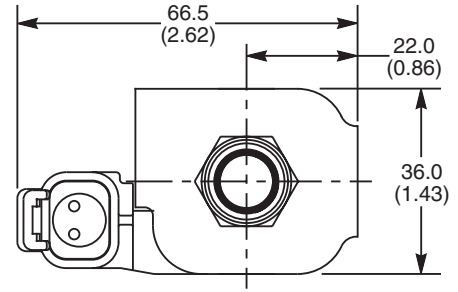
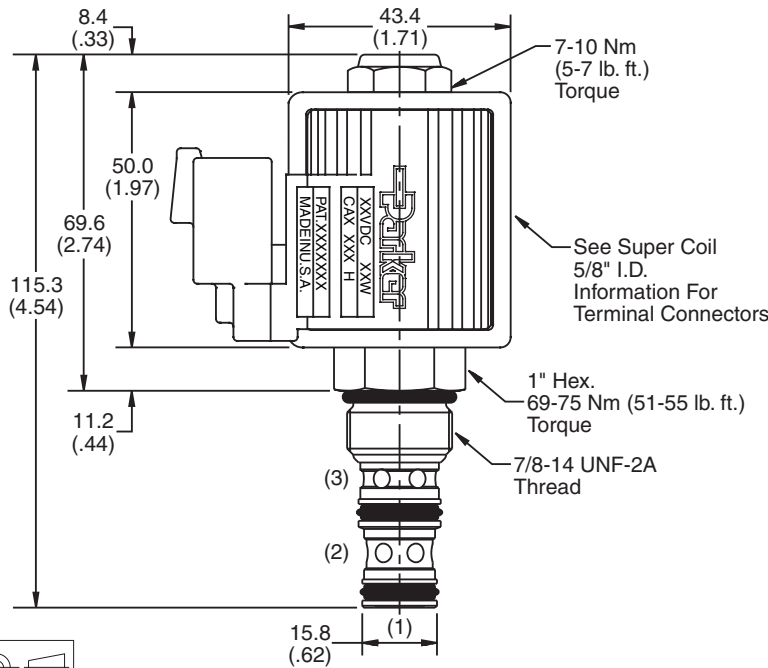
Bodies & Cavities

TD

Technical Data

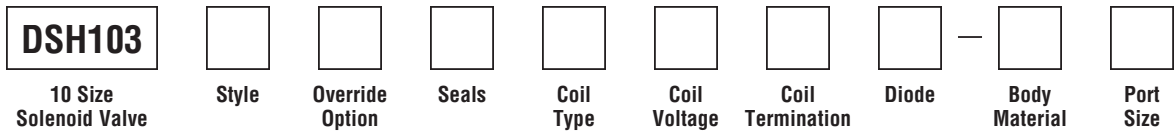
Spool Type, 3-Way Valve Series DSH103

Dimensions Millimeters (Inches)



Push and Twist M.O.

Ordering Information



Code	Style
A	
B	
C	
N	

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

Code	Seals / Kit No.
Omit	"D"-Ring / (SK10-3)
N	Nitrile / (SK10-3N)
V	Fluorocarbon / (SK10-3V)

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

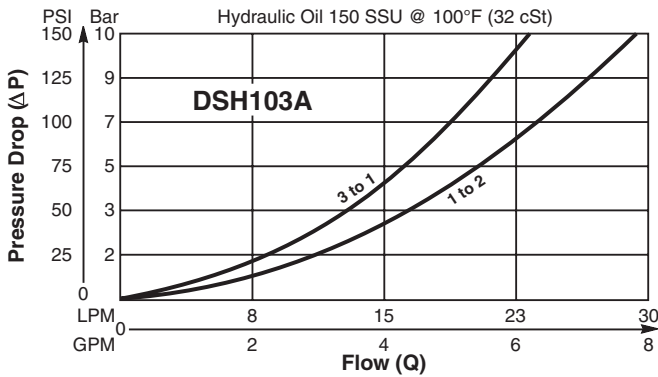
Code	Diode
Omit	None
R	Diode

Code	Body Material
Omit	Steel
A	Aluminum

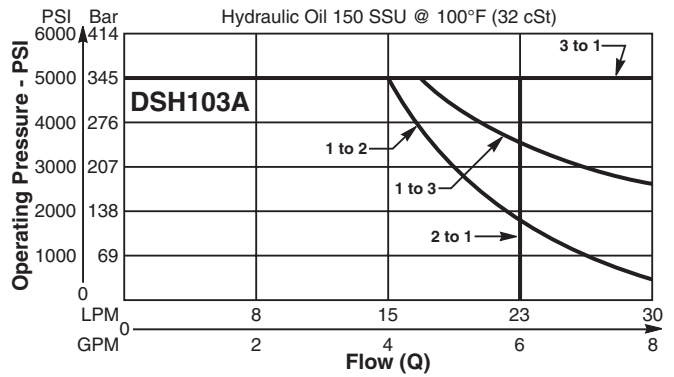
Code	Port Size	Body Part No.
Omit	Cartridge Only	
4P	1/4" NPTF	(B10-3-*4P)
6P	3/8" NPTF	(B10-3-*6P)
8P	1/2" NPTF	(B10-3-*8P)
6T	SAE-6	(B10-3-*6T)
8T	SAE-8	(B10-3-*8T)
6B	3/8" BSPG	(B10-3-6B)†
8B	1/2" BSPG	(B10-3-*8B)

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

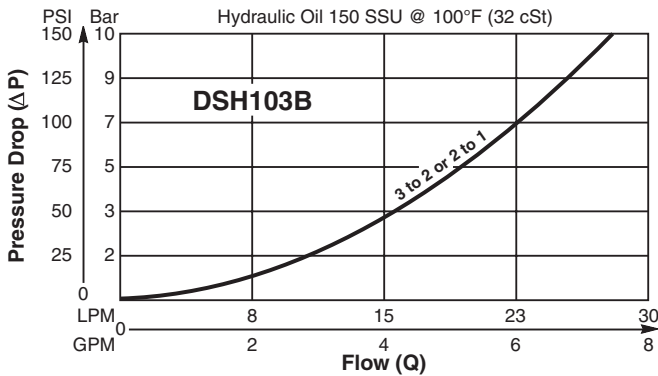
Pressure Drop vs. Flow (Through cartridge only)



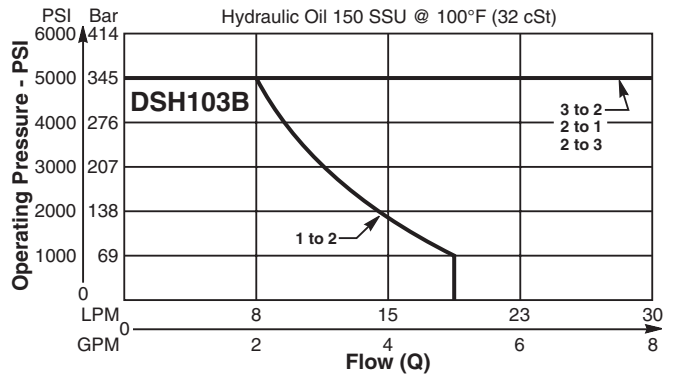
Shift Limit Characteristics (Min. Operating Voltage)



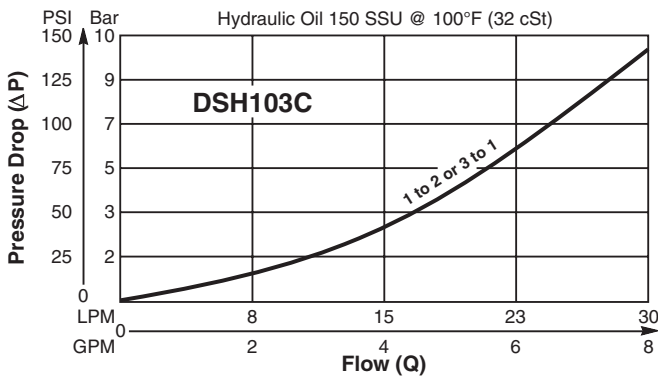
Pressure Drop vs. Flow (Through cartridge only)



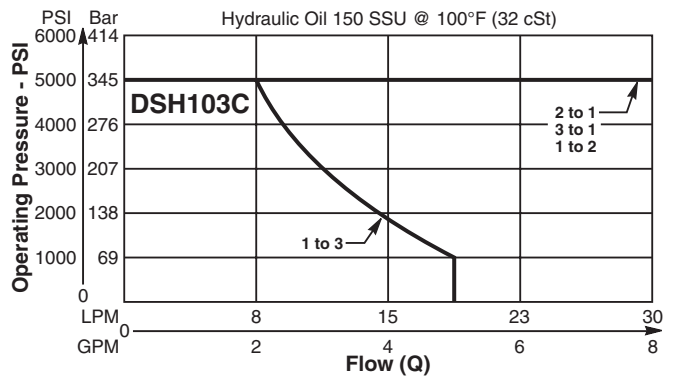
Shift Limit Characteristics (Min. Operating Voltage)



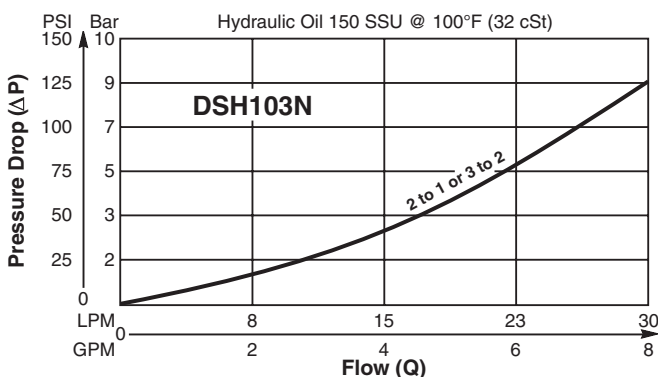
Pressure Drop vs. Flow (Through cartridge only)



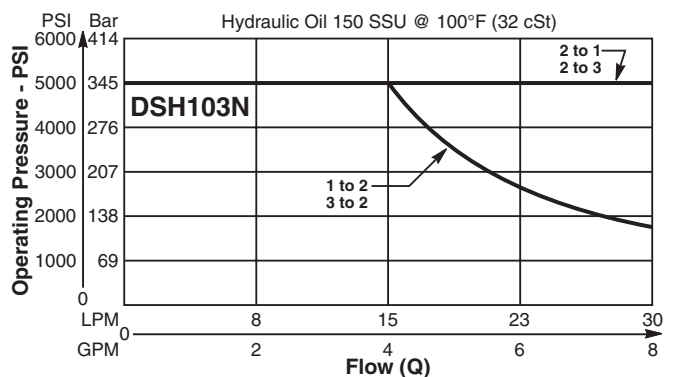
Shift Limit Characteristics (Min. Operating Voltage)



Pressure Drop vs. Flow (Through cartridge only)



Shift Limit Characteristics (Min. Operating Voltage)



- 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

- CV** Check Valves
- SH** Shuttle Valves
- LM** Load/Motor Controls
- FC** Flow Controls
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General Description

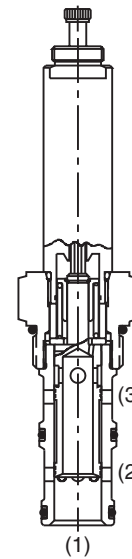
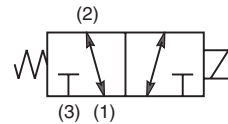
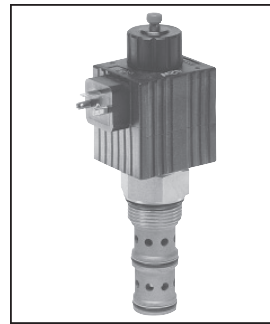
3-Way Spool Valves. For additional information see Technical Tips on pages SV1-SV6.

Features

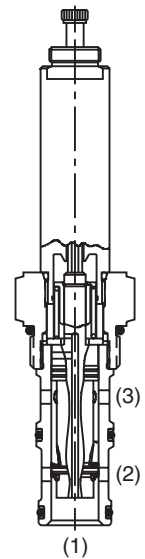
- High flow capacity with reduced space requirements
- Standard valve bodies and common cavities
- One-piece encapsulated coil with minimal amperage draw
- No dynamic seals
- Variety of coil terminations
- All external parts zinc plated
- Manual override standard

Specifications

Rated Flow	DS163	N.O. 45.4 LPM (12 GPM)
		N.C. 49.2 LPM (13 GPM)
		Selector 41.6 LPM (11 GPM)
DS163B	N.O. 26.5 LPM (7 GPM)	
	N.C. 53.0 LPM (14 GPM)	
	Selector 56.8 LPM (15 GPM)	
Maximum Inlet Pressure	210 Bar (3000 PSI)	
Leakage at 150 SSU (32 cSt)	82 cc/min. (5 in ³ /min.)	
Minimum Operating Voltage	85% of rated voltage at 20°C (72°F).	
Response Time	Normally Closed up to 90 ms Normally Open up to 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	C16-3 (See BC Section for more details)	
Form Tool	Rougher	NFT16-3R
	Finisher	NFT16-3F

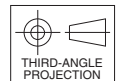
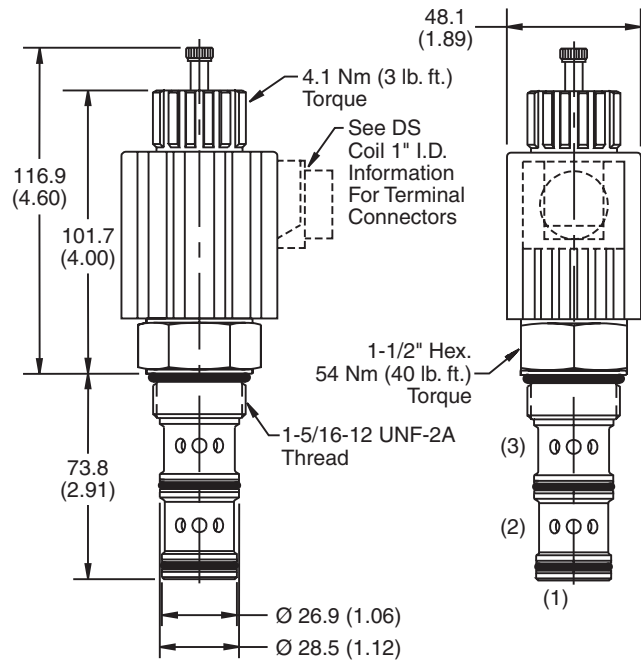


DS163



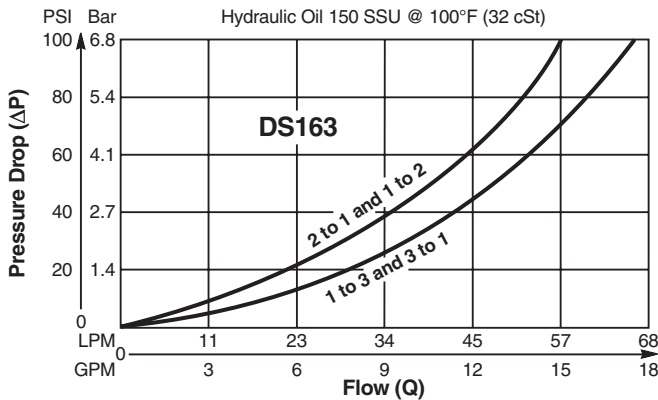
DS163B

Dimensions Millimeters (Inches)

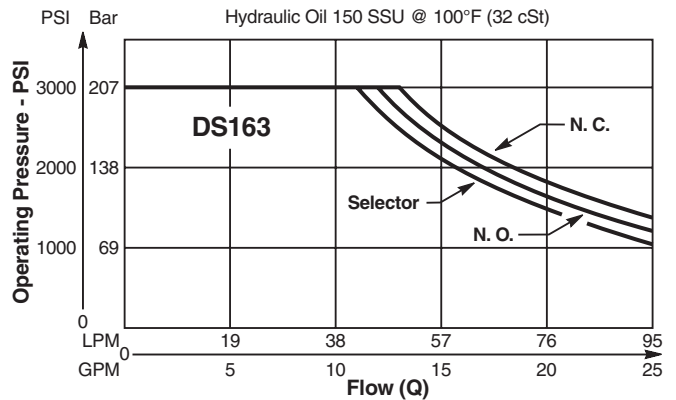


Performance Curves

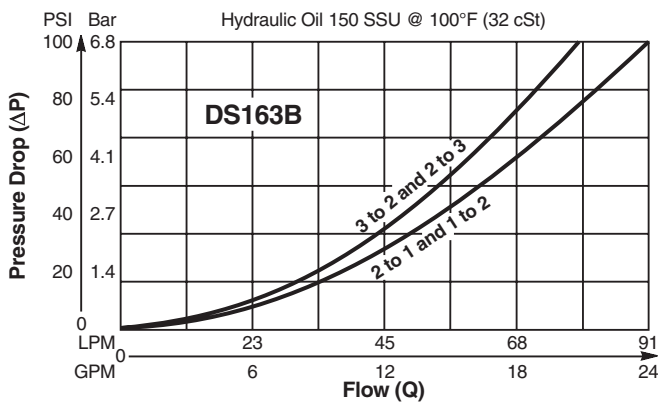
Pressure Drop vs. Flow (Through cartridge only)



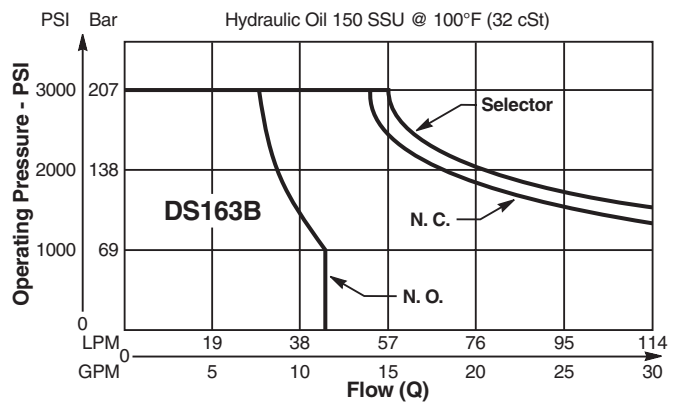
Shift Limit Characteristics (Min. Operating Voltage)



Pressure Drop vs. Flow (Through cartridge only)



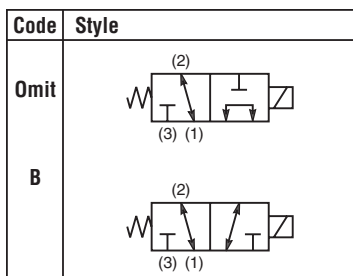
Shift Limit Characteristics (Min. Operating Voltage)



Ordering Information

DS163

16 Size Solenoid Valve **Style** **Seals** **Coil Voltage** **Coil Termination** **Body Material** **Port Size**



Code	Seals / Kit No.
Omit	Nitrile / (SK16-3)
V	Fluorocarbon / (SK16-3V)

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
S	Dual Screw (DC Only)
W	Dual Lead (DC Only)

See DS coil 1" I.D. (42 watt)

Code	Body Material
Omit	Steel
A	Aluminum

Code	Port Size	Body Part No.
Omit	Cartridge Only	
12T	SAE-12	(B16-3-*12T)
16T	SAE-16	(B16-3-*16T)

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

- 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
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