Operation

When a higher pressure is sensed at inlet 1 than at inlet 2 the ball within the cartridge is forced against a seat opening the higher pressure to outlet.

When the higher pressure appears at inlet 2 the ball is forced against the other seat which blocks inlet 1 and opens up inlet 2 to outlet.

Features

Cartridge design enabling speedy servicing when mounted in a body or in a composite manifold.

Sectional View

1

Performance Data

Ratings and Specifications

<u> </u>		
Performance data is typical with fluid at 21,8 cSt (105 SUS) a	and 49°C (120°F)	
Typical application pressure (all ports)	240 bar (3500 psi) steel housing	
Cartridge fatigue pressure (infinite life)	240 bar (3500 psi)	
Rated flow	23 L/min (6 USgpm)	
Internal leakage	Between ports 2 and 1, and 2 and 3 <5 drops/min maximum @ 240 bar (3500 psi)	
Cavity	C-8-3	
Standard housing materials	Aluminum or steel	
Temperature range	-40°C to +120°C (-40° to + 248°F)	
Fluids	All general purpose hydraulic fluids such as MIL-H-5606, SAE 10, SAE 20, etc.	
Filtration level	Cleanliness code 18/16/13	
Weight cartridge only	0,06 kg (0.14 lbs)	
Seal kits	02-160755 (Buna-N) 02-160756 (Viton˚)	

Viton is a registered trademark of E. I. DuPont

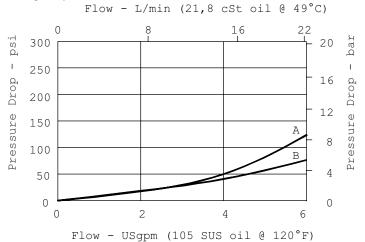
Description

G

This valve provides a means of sensing the higher pressures between two lines on a hydraulic circuit allowing this line to be used for an auxiliary function such as the removal of a mechanically applied brake, the operation of a gauge or to give a remote pressure sensing line for the control of a separate valve.

Pressure Drop

Cartridge only



Note: This valve is intended for application as a load sense shuttle valve in load sensing

A - Port 1 to port 2 B - Port 3 to port 2





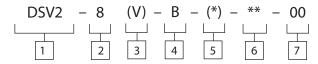
systems

DSV2-8 - Shuttle Valve

Ball type

23 L/min (6 USgpm) • 240 bar (3500 psi)

Model Code



1 Function

DSV2 - Shuttle Valve

2 Size

8 - 8 Size

3 Seals

Blank - Buna-N V - Viton 4 Style

B - Ball

5 Valve Housing Material

Omit for cartridge only

A - Aluminum

S - Steel

6	Port	Size
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Code	Port Size	Housing Number - B	Housing Number - Body Only	
		Aluminum Fatigue Rated	Steel Fatigue Rated	
4T	SAE 4	02-160741	02-160745	
6T	SAE 6	02-160742	02-160746	
2G	1/4" BSPP	02-160739	02-160743	
3G	3/8" BSPP	02-160740	02-160744	

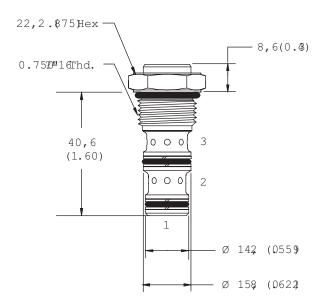
7 Special Features

00 - None (Only required if valve has special features, omitted if "00") SS - 316Tl Stainless Steel External components

Dimensions

mm (inch)

Cartridge Only Basic Code DSV2-8



Note: Torque cartridge in aluminum or steel housing 8.1-13.6 Nm (6-10 ft lbs).



Aluminum housings can be used for pressures up to 210 bar (3000

psi). Steel housings must be used for operating pressures above 1210 bar (3000 psi).

Installation Drawing (Steel)

