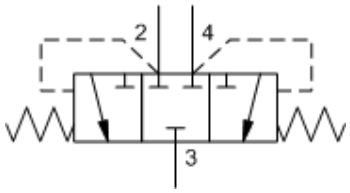
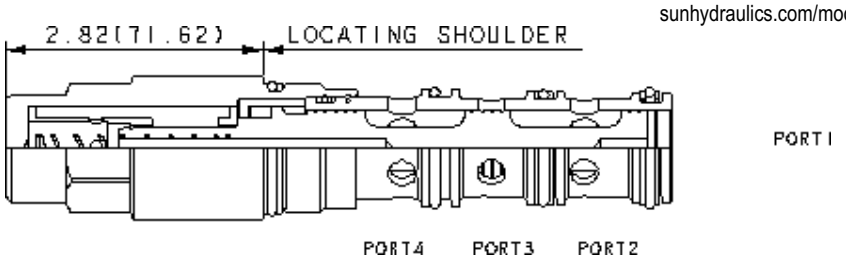
MODEL
DSGS

High side, 3-position, shuttle valve
SERIES 3 / CAPACITY: 60 gpm / CAVITY: T-33A

sunhydraulics.com/model/DSGS





CONFIGURATION

X	Control	Not Adjustable
G	Shifting Pressure	150 psi (10,5 bar)
N	Seal Material	Buna-N

High-side shuttle cartridges are most often used in full-time regeneration circuits. When both work ports (ports 2 and 4) are at equal pressures the valve is spring-centered to an all-ports-blocked position. When one of the work ports (port 2 or 4) sees a higher pressure it is connected to the common port (port 3).

TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-33A
Series	3
Capacity	60 gpm
Maximum Operating Pressure	5000 psi
Maximum Valve Leakage at 110 SUS (24 cSt)	4 in³/min.@1000 psi
Valve Hex Size	1 1/4 in.
Valve Installation Torque	150 - 160 lbf ft
Seal kit - Cartridge	Buna: 990033007
Seal kit - Cartridge	EPDM: 990033014
Seal kit - Cartridge	Polyurethane: 990033002
Seal kit - Cartridge	Viton: 990033006
Model Weight	1.92 lb.

CONFIGURATION OPTIONS

Model Code Example: DSGSXGN

CONTROL (X)	SHIFTING PRESSURE (G)	SEAL MATERIAL (N)
X Not Adjustable	**G** 150 psi (10,5 bar)	**N** Buna-N
	C 30 psi (2 bar)	**E** EPDM
	E 75 psi (5 bar)	**V** Viton
	F 100 psi (7 bar)	

TECHNICAL FEATURES

- This valve provides overrunning load control in regeneration applications where the load tends to extend the cylinder. Because there is spool leakage, it does not prevent drift.
- Hardened spool/sleeve construction provides excellent wear characteristics and minimizes cross leakage.
- Although this valve goes into a 4-port cavity, the nose (port 1) is not used.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

PERFORMANCE CURVES