# Low side, 3-position, hot oil shuttle valve

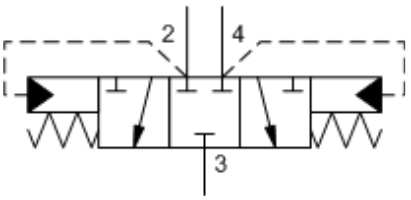
Capacity:
**40 gpm (160 L/min.)**

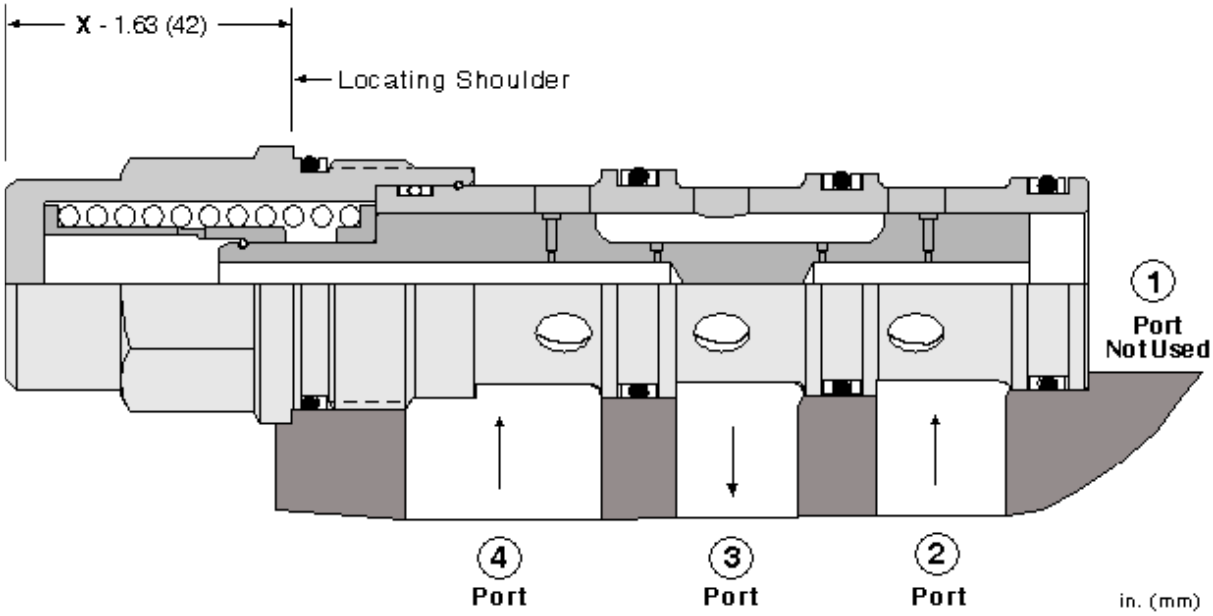
Functional Group:
**Products : Cartridges : Shuttle Valve : 4-Port : Low Side (Hot Oil), 3 Position**

Model:
**DSGH**

**Product Description**

Low-side (hot oil) shuttle cartridges allow hot oil to be diverted from the low pressure side of a closed loop system. 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 the opposite work port is connected to the common port (port 3).



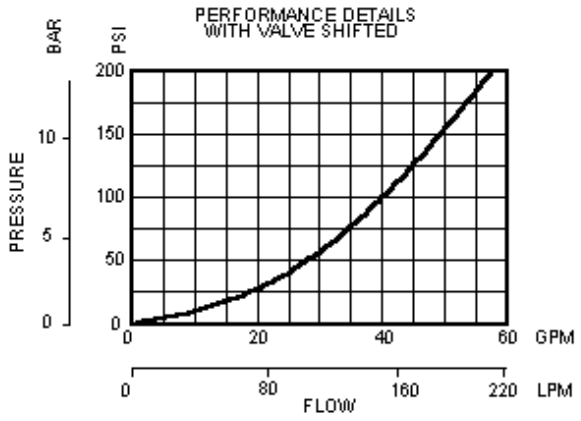




**Technical Features**

- The spool incorporates a hydraulic stop that eliminates mechanical impact and therefore the potential for internal damage.
- The hydraulic stop results in a small pilot flow from the high side work port (port 2 or 4) to the common port (port 3).
- A unique feature due to the hydraulic stop is that the hot oil relief setting can be confirmed with the transmission in neutral.
- NOTE: Low shift values can potentially result in charge pump pressure alone inadvertently shifting the valve. Use care when selecting shift pressure.
- Although this valve goes into a 4-port cavity, the nose (port 1) is not used.
- 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.

**Technical Data**

| | U.S. Units | Metric Units |
|---|---|---|
| Cavity | T-33A | |
| Capacity | 40 gpm | 160 L/min. |
| Maximum Operating Pressure | 5000 psi | 350 bar |
| Pilot Flow | 46 in³/min. | 0,75 L/min. |
| Series (from Cavity) | Series 3 | |
| Valve Hex Size | 1 1/4 in. | 31,8 mm |
| Valve Installation Torque | 150 - 160 lbf ft | 200 - 215 Nm |
| Seal Kits - Cartridge | Buna: 990-033-007 | |
| Seal Kits - Cartridge | Viton: 990-033-006 | |
| Model Weight | 1.65 lb. | 0.75 kg. |




## DSGH-XHN

| Control | Shifting Pressure | Seal Material |
|---|---|---|
| **Standard Options** | **Standard Options** | **Standard Options** |
| **X** Not Adjustable | **G** 150 psi (10,5 bar) | **N** Buna-N |
| | **H** 200 psi (14 bar) | **V** Viton |

***Additional Options (Click Here)***

| Control | Shifting Pressure | Seal Material |
|---|---|---|
| | **D** 50 psi (3,5 bar) | |
| | **E** 75 psi (5 bar) | |