



CONFIGURATION

| | | |
|---------------|-------------------|---------------------------|
| X | Control | Not Adjustable |
| E | Shifting Pressure | 75 psi (5 bar) |
| N | Seal Material | Buna-N |
| (none) | Material/Coating | Standard Material/Coating |

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 DATA

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

| | |
|----------------------------|-------------------------|
| Cavity | T-34A |
| Series | 4 |
| Capacity | 320 L/min. |
| Maximum Operating Pressure | 350 bar |
| Pilot Flow | 0,75 L/min. |
| Valve Hex Size | 41,3 mm |
| Valve Installation Torque | 474 - 508 Nm |
| Seal kit - Cartridge | Buna: 990034007 |
| Seal kit - Cartridge | Polyurethane: 990034002 |
| Seal kit - Cartridge | Viton: 990034006 |
| Model Weight | 1.62 kg. |

CONFIGURATION OPTIONS

Model Code Example: DSIHXEN

| CONTROL | (X) SHIFTING PRESSURE | (E) SEAL MATERIAL | (N) MATERIAL/COATING |
|-------------------------|---|-----------------------------------|--|
| X Not Adjustable | E 75 psi (5 bar) G 150 psi (10,5 bar) H 200 psi (14 bar) | N Buna-N V Viton | Standard Material/Coating /LH Mild Steel, Zinc-Nickel |

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.

PERFORMANCE CURVES

PERFORMANCE DETAILS WITH VALVE SHIFTED
FLOW FROM PORT 2 OR 4 TO PORT 3

