



This vent-to-shift diverter valve is a 2-position, 3-way cartridge that is normally open from port 3 to port 4. When port 1 is vented, the pressure differential between port 3 and port 1 exceeds the spring force causing the valve to shift, thereby connecting port 3 to port 2.

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

| | |
|----------------------------|---------------------------|
| Cavity | T-33A |
| Series | 3 |
| Capacity | 60 gpm |
| Maximum Operating Pressure | 5000 psi |
| Nominal Vent Flow | 35 in ³ /min. |
| Valve Hex Size | 1 1/4 in. |
| Valve Installation Torque | 150 - 160 lbf ft |
| Model Weight | 1.40 lb |
| Seal kit - Cartridge | Buna: 990-033-007 |
| Seal kit - Cartridge | Polyurethane: 990-033-002 |
| Seal kit - Cartridge | Viton: 990-033-006 |

OPTION SELECTION EXAMPLE: DSGYXCNV

| CONTROL | (X) MINIMUM CONTROL PRESSURE | (C) SEAL MATERIAL | (N) |
|------------------|--|---------------------|-----|
| X Not Adjustable | C 30 psi (2 bar) D 50 psi (3,5 bar) E 75 psi (5 bar) | N Buna-N V Viton | |

TECHNICAL FEATURES

- This valve is not bistable; it is capable of modulating between the two positions shown.
- Vent flow out of port 1 is pressure compensated and is listed in Technical Data.
- There must be a pressure source at port 3, relative to port 1, to shift the valve.
- One application of this valve is to be used in pairs to select between 2 motors or pumps.
- One pilot valve may be used to vent multiple diverter valves if blocking checks are used at port 1 of each diverter. If blocking checks are not used there will be interaction between high and low pressure legs of the circuit.
- The vent-to-shift function is self cleaning and therefore insensitive to contamination.
- Hardened spool and sleeve provide consistent and low spool leakage rates and excellent wear characteristics.
- 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

