



This solenoid-operated 2-way, 2-position cartridge is a direct-acting, poppet-style directional valve. The valve is available in either a normally open or normally closed configuration. Due to the poppet style construction, this valve has extremely low leakage.

**CONFIGURATION**

|               |                      |                                   |
|---------------|----------------------|-----------------------------------|
| <b>D</b>      | Control              | Twist/Lock (Dual) Manual Override |
| <b>C</b>      | Poppet Configuration | Normally Closed                   |
| <b>V</b>      | Seal Material        | Viton                             |
| <b>(none)</b> | Coil                 | No coil                           |

**TECHNICAL DATA**

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

|   |                         |
|---|-------------------------|
| Maximum Operating Pressure                | 350 bar                 |
| Response Time - Typical                   | 50 ms                   |
| Maximum Valve Leakage at 110 SUS (24 cSt) | 0,7 cc/min.@350 bar     |
| Switching Frequency                       | 15000 cycles/hr         |
| Manual Override Force Requirement         | 33 N/100 bar @ Port 1   |
| Manual Override Stroke                    | 2,5 mm                  |
| Seal kit - Cartridge                      | Buna: 990413007         |
| Seal kit - Cartridge                      | EPDM: 990413014         |
| Seal kit - Cartridge                      | Polyurethane: 990413002 |
| Seal kit - Cartridge                      | Viton: 990413006        |

**NOTES**

- Please verify cartridge clearance requirements when choosing a Sun manifold. Different valve controls and coils require different clearances.
- An additional 2.00 inches (50,8 mm) beyond the valve extension is needed for coil installation and removal.

**CONFIGURATION OPTIONS**

Model Code Example: **DTDADCV**

| <b>CONTROL</b>                             | <b>(D) POPPET CONFIGURATION</b> | <b>(C) SEAL MATERIAL</b> | <b>(V) COIL *</b>            |
|--|---------------------------------|--------------------------|------------------------------|
| <b>D</b> Twist/Lock (Dual) Manual Override | <b>C</b> Normally Closed        | <b>V</b> Viton           | No coil                      |
| X No Manual Override                       | H Normally Open                 | N Buna-N                 | 212 DIN 43650-Form A, 12 VDC |
| L Twist/Lock (Detent) Manual Override      |                                 | E EPDM                   | 224 DIN 43650-Form A, 24 VDC |
| M Manual Override                          |                                 |                          | 712 Twin Lead, 12 VDC        |
| T Twist (Momentary) Manual Override        |                                 |                          | 724 Twin Lead, 24 VDC        |
|  |                                 |                          | 912 Deutsch DT04-2P, 12 VDC  |
|  |                                 |                          | 924 Deutsch DT04-2P, 24 VDC  |

\* Additional coil options are available