# Directional Control Valves

# PTS11-10

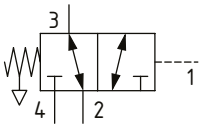
Directional Control Valve, 3-Way, Spool Type, Hydraulic Pilot, Atmospheric Vent

**350 bar [5000 psi] • 30 l/min [8 US gpm]**

## DESCRIPTION AND OPERATION

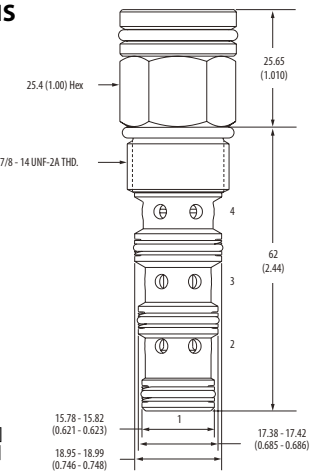
This is a 3-way, spool type, hydraulically piloted directional control valve with an atmospheric vent. In the normal condition, port 2 is connected to port 3 and port 4 is blocked. Pilot pressure at port 1 will cause the valve to shift, connecting port 3 to port 4 with port 2 blocked. During the cross-over transition, all ports are blocked. This valve can be used as a selector valve when combined with a pilot solenoid valve.

## SCHEMATIC




## DIMENSIONS

mm [in]

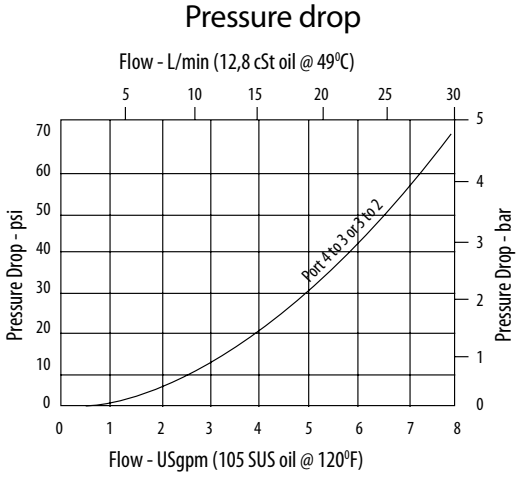



**Installation torque**
**A**-47-54 Nm [35-40 ft. lbs]
**S**-68-75 Nm [50-55 ft. lbs]

## PERFORMANCE DATA

| | |
|---|---|
| **Rated pressure** | **350 bar [5000 psi]** |
| **Rated flow** | **30 l/min [8 US gpm]** |
| Leakage | 210 ml/min [13 in³/min] @ 210 bar [3000 psi] |
| Weight | 0.14 kg [0.32 lb] |
| Cavity | SDC10-4 |

## PERFORMANCE CURVES




## MODEL CODE

**PTS11 - 10 - V - A - 2G - 40**

**Seal Option**

| Code | Seal Kit |
|---|---|
| **Omit**-Buna-N | 889625 |
| **V**-Viton | 566080 |

**Housing Material**

**Omit**-No housing
**A**-Aluminum
**S**-Steel

**Shift Pressure**

| Code | Bar | [Psi] |
|---|---|---|
| **40** | 2.75 | [40] |
| **80** | 5.5 | [80] |
| **160** | 11.0 | [160] |

**Housing**

| Code | Ports | Aluminum Heavy duty | Steel |
|---|---|---|---|
| **0** | No housing | | |
| **2G** | 1/4" BSP | 02-185804 | 02-175139 |
| **3G** | 3/8" BSP | 02-185805 | 02-175140 |
| **6H** | #6 SAE | 02-185802 | |
| **8H** | #8 SAE | 02-185803 | |
| **6T** | #6 SAE | | 02-175137 |
| **8T** | #8 SAE | | 02-175138 |

* Aluminum bodies are to be used for pressures less than 210 bar [3000 psi].
* Additional housings available