## **Piloted 3-Way Spool, Internally Vented** Type:PD10-2343

Operating pressure: 350 bar (5000 psi) Proof pressure: 630 bar (9000 psi) Flow: 50 L/min

#### **Description**

A screw-in, cartridge-style, pilot-operated, spool-type, internally vented, hydraulic directional valve for 3-way circuits requiring remote pilot actuation.

#### **Operation**

In neutral (unpiloted), the PD10-2343 allows flow from ③ to ④, while flow is block at ②. On remote pilot signal at ①, the valve shifts to open from ③ to ②, while blocking flow at ④. Since ④ is common to the spring chamber, pressure on ④ will directly (1:1) affect the pilot pressure required, and must always be added to the bias spring value.

Note: Consult factory for applications where bi-directional flow from 4 to 3 is required.

### **Technical Data**

Operating pressure	350 bar (5000 psi)
Proof pressure	630 bar (9000 psi)
Max. flow	See Performance Chart
Oil volume required to full shift	0.4 ml (0.025 cu. in.)
Internal leakage	57 ml/min (3.5 cu. in./min) max.at 350 bar (5000 psi)
Installation torque	30-35 Nm (22-25 ft.lbs)
Pilot pressure	For 3bar (43.5 psi) spring: 3bar(43.5 psi)+ ④ pressure
required to full	For 5.5bar (80 psi) spring: 5.5bar(80 psi)+ ④ pressure
spool shift	For 11.5bar (167psi) spring:11.5bar(167 psi)+ ④ pressure
Temperature range	-40°C ~ 120°C with standard buna seals
	-26°C ~ 204°C with fluorocarbon seals
Fluids	Mineral based or synthetics with lubricating properties at
	viscosities of 7.4~420cSt (50-2000ssu)
Installation	No restriction
Cavity	VC10-4
Cavity tool	T10-4RC (Rough), T10-4FM (Finishing)









32cSt/150ssu fluid at 40°C



# Features

- Hardened spool and cage for long life.
- Compact and convenience.
- Industrial general cavity.
- Range of bias springs available.

# **Ordering Code**



## **Dimensions**



### **Materials**

**Cartridge:** Weight: 0.20 kg (0.44 lbs) ; Steel with hardened working surfaces and zinc-plated exposing surfaces ; Buna N O-rings and back-up (standard).

**Standard ported body:** Weight : 0.33 kg (0.73 lbs) ; Anodized highstrength 6061 T6 aluminum alloy, rated to 250 bar (3600 psi).

**Others:** Ductile iron bodies and steel bodies available. Dimensions may differ. Contact after sale.