

PDI - Solenoid Operated Valves

Product Overview

PneuDrualics, Inc. (PDI) develops **Solenoid Operated Valves (SOVs)** that set the standard for **aerospace hydraulic control**. Engineered for precision and reliability, our custom valves deliver consistent performance across a wide range of flow rates and configurations. PDI's SOVs provide dependable hydraulic control for **landing gear, flight control, braking, steering, door control systems**, and wherever precision matters most.

Product Examples



Main Entry Door Control Valve



Power Transfer Unit Select Valve



Thrust Reverser Control Valve



Nose Landing Gear Isolation Valve

Features

✓ Custom Flow Rates

Ranges between 1 and 40+ GPM

✓ Coils Options

Single or Dual Coil variants

✓ Default Positions

Normally Open or Closed options

✓ Electrical Connections

Internal or External Connection choices

✓ Operating Methods

Direct acting or Piloted actuation

✓ Valve Configurations

2 Pos/2 Way, 3 Pos/4Way Layouts, etc.

Electrical Characteristics

Specification	Value
Operating Voltage	18-32 VDC
Current	1.0 Amp Max @ 32 VDC
Duty	Continuous
Dielectric Strength	1000 Vrms AC
Coil Resistance	45 ohms (typ)
Pull-in Voltage	10-13 VDC
Drop-out Voltage	2-7 VDC



Configuration Examples

Valve Type	Flow	Pressure Drop	Max Leakage Rate
2P-3W, Direct	0.5 GPM	50 psid	10 cc/min
2P-2W, Direct	2 GPM	45 psid	0.5 cc/min
2P-3W, Piloted	5 GPM	90 psid	0.5 cc/min
3P-4W, Piloted	6 GPM	80 psid	15 cc/min
2P-2W, Direct	7 GPM	105 psid	15 cc/min
2P-3W, Piloted	10 GPM	60 psid	15 cc/min
3P-4W, Piloted	20 GPM	60 psid	10 cc/min
2P-3W, Piloted	26 GPM	50 psid	70 cc/min
2P-3W, Piloted	37 GPM	100 psid	1.5 cc/min

Contact Us

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