DESCRIPTION
This pilot operated, hydraulic pressure reducing valve acts as a pressure regulating device for a secondary circuit. It utilizes a sliding spool and screw-in cartridge.

OPERATIONS
The valve will allow flow from the inlet port to the controlled port until pressure exceeds the spring setting. Then the spool will start to restrict flow, causing reduced pressure in the controlled port.

FEATURES & BENEFITS
— Leakproof screw adjustment.
— Adjusting screw cannot be backed out of the valve.
— All external parts are zinc-plated for long life against elements.
— All cartridges are 100% tested functionally.
— Industry common cavity.
— Anodized aluminum.
— Back pressure will effect valve settings.

SPECIFICATIONS
— Valve Bodies: 3000 PSI (207 Bar) = Aluminum (2024-T4).
— 5000 PSI (350 Bar) = Ductile (65-45-12).
— Flow: 10 GPM (38 L/M) nominal. Refer to performance chart.
— Internal Leakage: 5 cu. in/min (85 cc/m) at 85% of crack pressure.
— Operating Temperature: Fluid temperatures up to 200° F. will not appreciably effect valve performance, however, from a safety standpoint, temperatures above 130° F. are not recommended.
— Operating Media: All general purpose hydraulic fluids such as MIL-H-5606, SAE #10, SAE #20, etc.
— Filtration: 25 microns acceptable; 10 microns preferred.
P03MSV-PDA / P03MSV-PDB / P03MSV-PDP
POWRFLOW™
PRESSURE REDUCING VALVE
Pilot Operated

DIMENSIONS

P03MSV-PDA

P03MSV-PDB

P03MSV-PDP

P03MSV-PDA

P03MSV-PDB

P03MSV-PDP

VALVE TYPE
REDUCING VALVE
A PORT

VALVE TYPE
REDUCING VALVE
B PORT

VALVE TYPE
REDUCING VALVE
P PORT
P03MSV-PDA / P03MSV-PDB / P03MSV-PDP
POWRFLOW™ PRESSURE REDUCING VALVE
Pilot Operated

ORDERING INFORMATION

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Body Only Assembly:

**Code A**
Aluminum (Part No.) — 552493K
Ductile (Part No.) — 552559K

**Code B**
Aluminum (Part No.) — 552483K
Ductile (Part No.) — 552561K
Includes O-rings & Locating Pin.

General Information:
- Cartridge cavity is C1030 with port flow pattern flowing from port 2 to port 1. Port 3 is drain.
- For other crack pressure ratings, refer to CPRPS-10 cartridges in the Cartridge Catalog.

TYPICAL ORDERING CODE: P03MSV-PDA-150-GA