

# P05MSV-PD

## Pilot Operated Pressure Reducing Valve

MODULAR VERSION  
NFPA D05 ISO 4401-05

P max 5000 PSI 350 bar  
Q max SEE PERFORMANCE TABLE

### DESCRIPTION

This valve is a pilot operated pressure reducing valve with mounting surface according to NFPA D05/ISO 4401-05 standards. It is used to reduce pressure on secondary circuit branches, assuring stability of the controlled pressure. It can be assembled in a stack under a NFPA D05/ISO 4401-05 directional solenoid valve using suitable tie rods or bolts. It is supplied with a hex socket adjustment screw and a locknut. The maximum travel of the adjustment screw is limited. It is available in three pressure adjustment ranges, up to 4000psi [280bar].

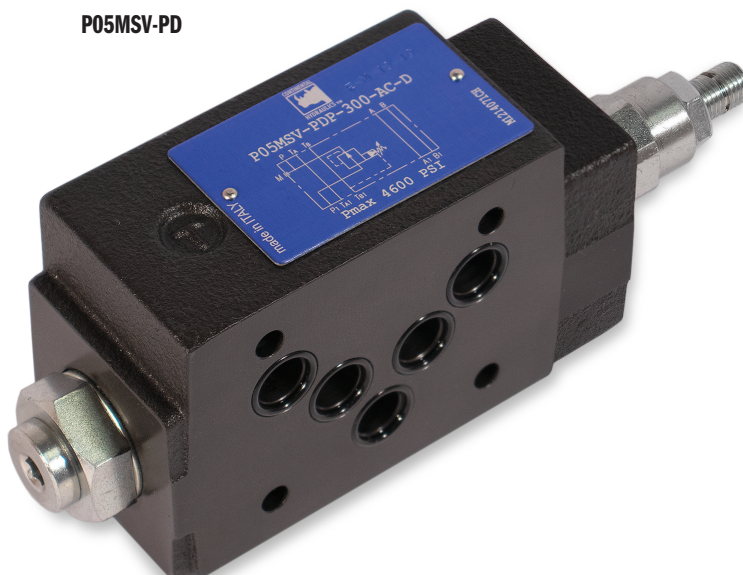
### Key Features:

- Maximum operating pressure:  
P05MSV-PD / PDA / PDB is 5000 psi
- Maximum flow rate P05MSV-PD for controlled lines 21 gpm and free lines 26 gpm

### PERFORMANCE (Measured with mineral oil of viscosity 36cSt at 120°F [50°C])

Max operating pressure:	PSI [bar]	5000 (350)
Maximum flow rate in the controlled line P	GPM [l/min]	21 [80]
Maximum flow rate in the free lines		26 [100]
Drain flow rate		≤ 0.21 [≤ 0.8]
Ambient temperature range	°F [°C]	-4 to 140 [-20 to +60]
Fluid temperature range	°F [°C]	-4 to 176 [-20 to +80]
Fluid viscosity range	cSt	10 - 400
Recommended viscosity	cSt	25
Fluid contamination degree	according to ISO 4406:1999 class 20/18/15	
Mass: P05MSV-RP	lbs [kg]	6.0 [2.7]

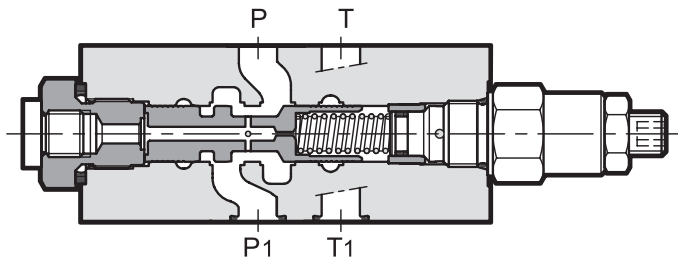
P05MSV-PD



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## P05MSV-PD

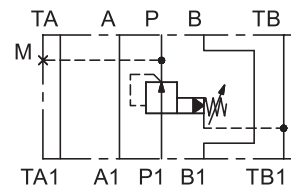


### OPERATING PRINCIPLE

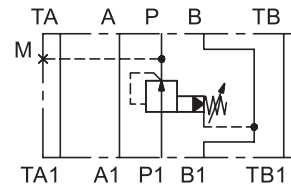
- The P05MSV-PD valve is a pilot operated pressure reducing valve with mounting surface according to NFPA D05/ISO 4401-05 standards.
- It is used to reduce pressure on secondary circuit branches, assuring stability of the controlled pressure.
- It can be assembled in a stack under a NFPA D05/ISO 4401-05 directional solenoid valve using suitable tie rods or bolts.
- It is supplied with a hex socket adjustment screw and a locknut. The maximum travel of the adjustment screw is limited.
- It is available in three pressure adjustment ranges, up to 4000psi [280bar].

### HYDRAULIC SYMBOLS

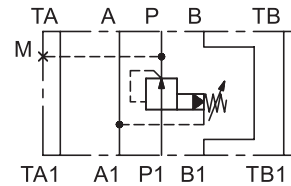
P05MSV-PDP



P05MSV-PDA



P05MSV-PDB



### HYDRAULIC FLUIDS

Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code A). For fluids HFDR type (phosphate esters) use FPM seals (code G). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at temperatures higher than 176°F [80°C] causes a faster degradation of the fluid and of the seals characteristics.



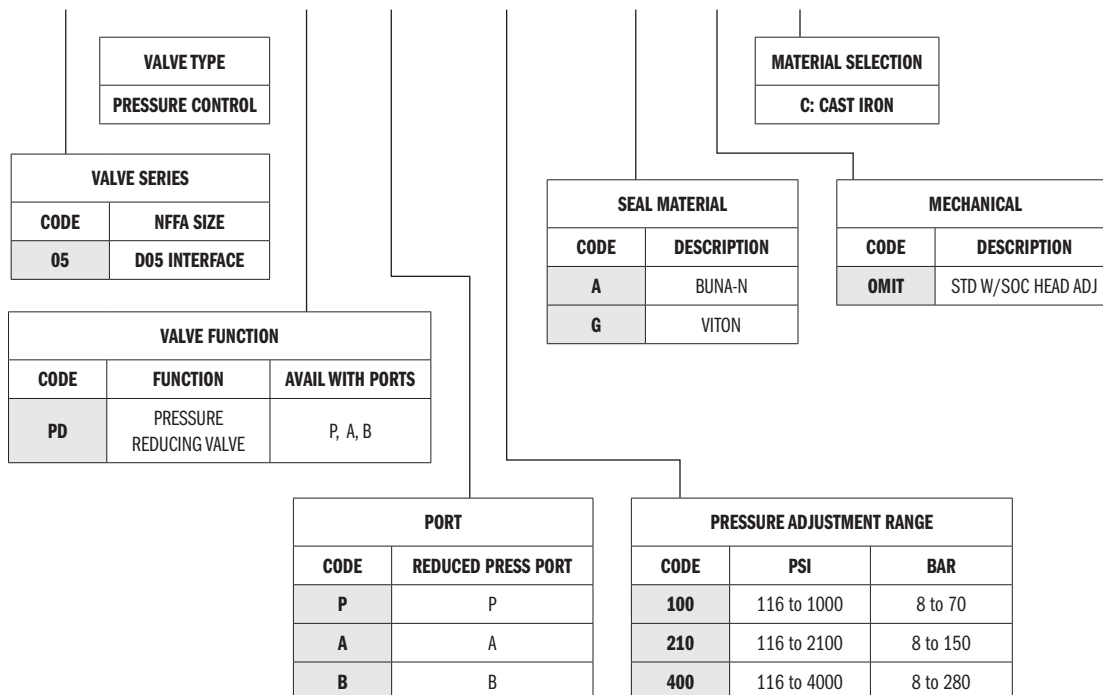
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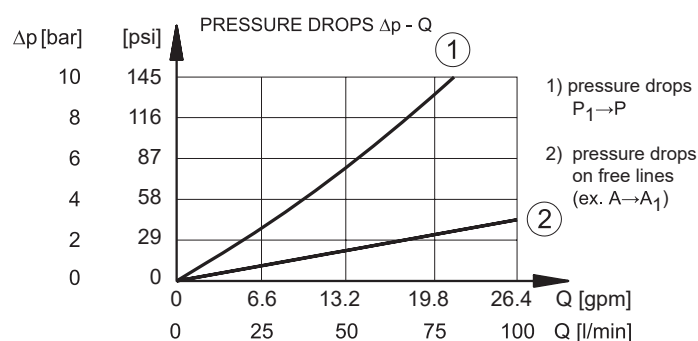
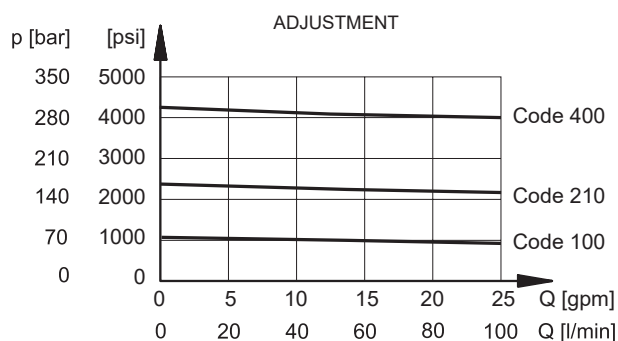
[sales@oilsolutions.com.au](mailto:sales@oilsolutions.com.au)

### IDENTIFICATION CODE:

**P05MSV - PD**   -   -     **C** -   ————— DESIGN LETTER



### CHARACTERISTIC CURVES (values obtained with viscosity of 36 cSt at 120°F [50°C])

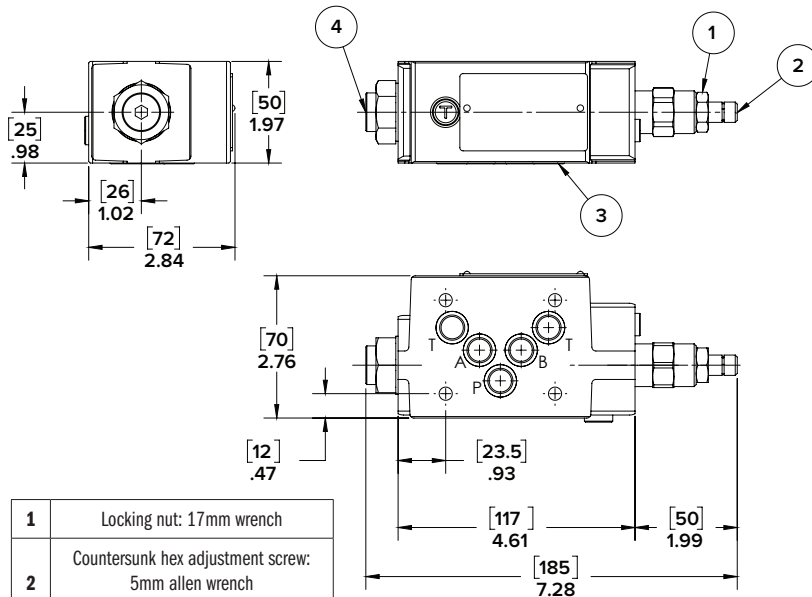


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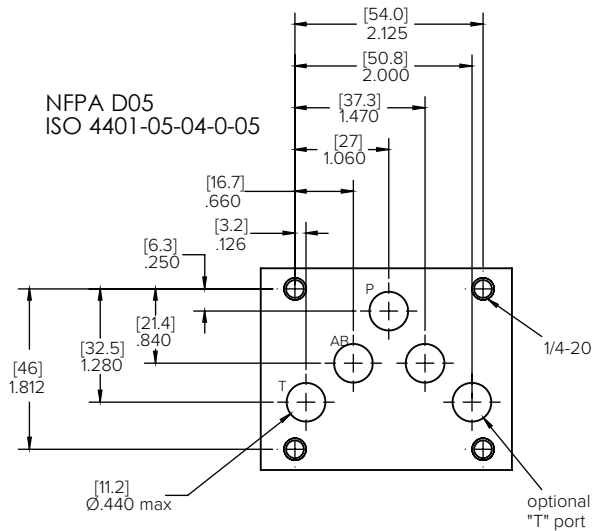
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### OVERALL AND MOUNTING DIMENSIONS Dimensions inch [mm]



### MOUNTING INTERFACE Dimensions inch [mm]



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