



PO Box 38 Strathfieldsaye, VIC, 3551 1800 OIL SOL 1800 645 765

sales@oilsolutions.com.au

www.oilsolutions.com.au

"For All Your Hydraulic Needs"



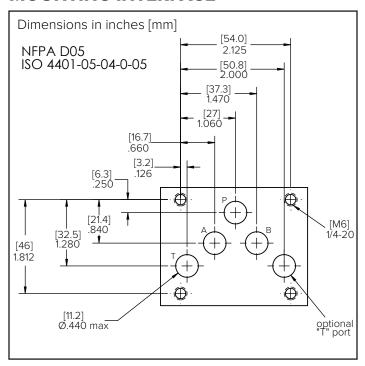
# P05MSV-XC/XCT

WORKPORT PILOT OPERATED PRESSURE RELIEF VALVE

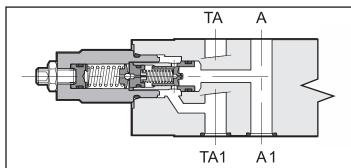
P max 5000 PSI 350 bar Q max 32 GPM 120 I/min

# MODULAR VERSION NFPA D05 ISO 4401-05

#### **MOUNTING INTERFACE**



#### **OPERATING PRINCIPLE**



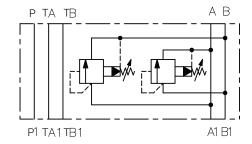
- The P05MSV-XC and XCT are pilot operated modular pressure relief valves with mounting surface according to NFPA D05/ISO 4401-05 standards.
- Typically, it mounts sandwiched between a directional control valve and a subplate/manifold and functions as a pressure limiting device in A and B ports.
- Code XC functions as a cross port relief valve.
   Code XCT relieves each work port to T independently.
- The valves can be assembled in a stack with additional modular valves using suitable tie rods or bolts.
- It is supplied with a hex socket head adjustment screw and locknut. The maximum travel of the adjustment screw is limited.

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

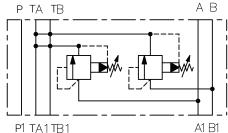
| Maximum operating pressure                                  | PSI [bar]                                    | 5000 [350]             |
|---|--|------------------------|
| Minimum controlled pressure                                 | PSI [bar]                                    | 200 [14]               |
| Maximum flow rate in controlled lines and in the free lines | GPM [l/min]                                  | 32 [75]                |
| 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               |
| Fluid contamination degree                                  | According to ISO 4406:1999<br>class 20/18/15 |                        |
| Recommended viscosity                                       | cSt  | 25                     |
| Mass: P05MSV-RP   | lbs [kg]                                     | 6.6 [3]                |

## **HYDRAULIC SYMBOLS**

#### P05MSV-XC

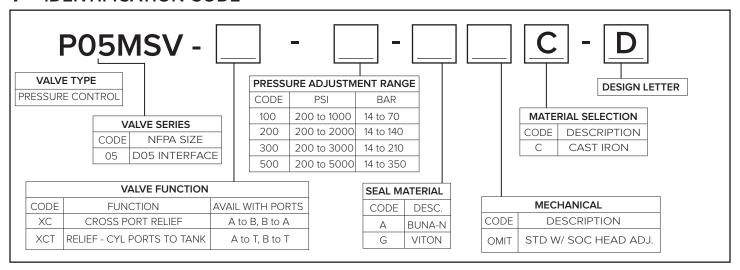


# PO5MSV-XCT

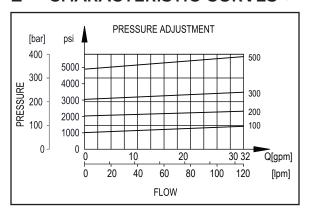


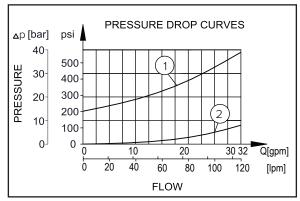
## 1 · IDENTIFICATION CODE





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





- 1) pressure drops on controlled lines
- 2) pressure drops on free lines

## 3 · 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.

The fluid must be preserved in its physical and chemical characteristics.

#### 4 • OVERALL AND MOUNTING DIMENSIONS

