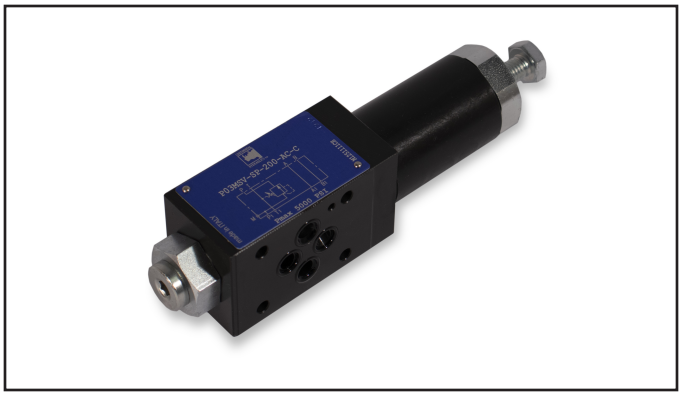


CONTINENTAL HYDRAULICS

P03MSV-SP

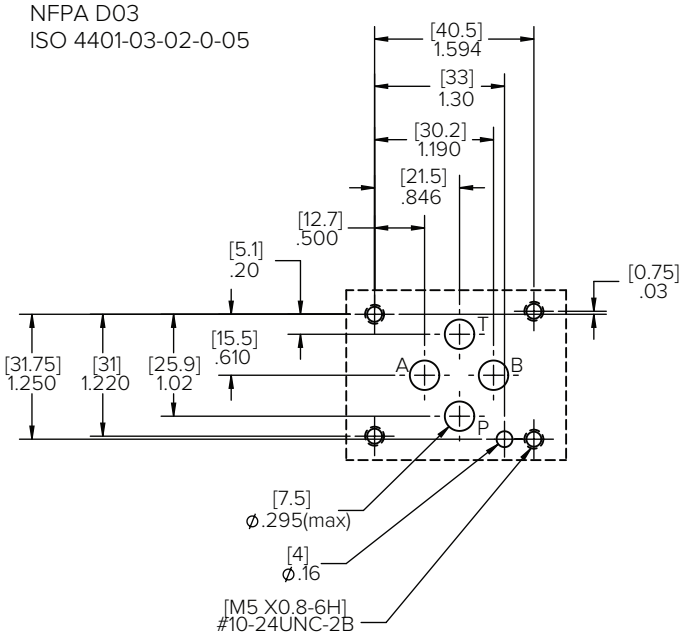
DIRECT OPERATED SEQUENCE VALVE

MODULAR VERSION
NFPA D03 ISO 4401-03

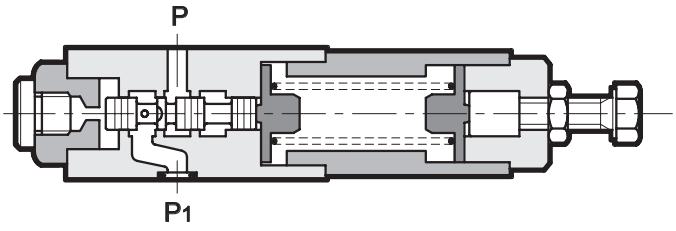
P max **5000 PSI 350 bar**
Q max SEE PERFORMANCE TABLE

MOUNTING INTERFACE

DIMENSIONS: INCHES [mm]
NFPA D03
ISO 4401-03-02-0-05



OPERATING PRINCIPLE



- The P03MSV-SP valve is a direct operated sequence valve of the spool type and is used to control two or more actuators in succession.

  At rest position, it is normally closed and the spool is subject to pressure in line P1 on one side and to the adjustment screw on the other side. When the pressure in line P1 reaches the set value of the screw, the valve opens and allows passage of the fluid in the pressure line of the main circuit.

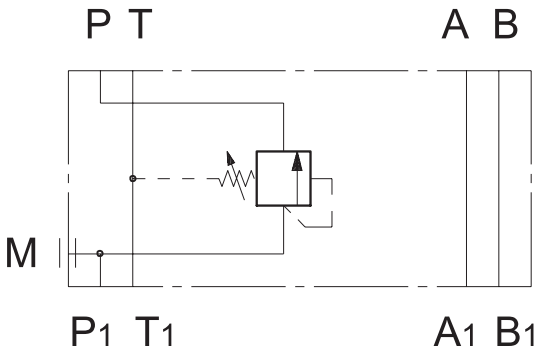
  The valve stays open until the pressure in the circuit drops below the calibrated value set by the spring.
- It is made as a modular version with ports according to NFPA D03/ISO4401-03 standards.
- It is normally supplied with a hexagonal head adjustment screw.
- It can be assembled in a stack with additional modular valves using suitable tie rods or bolts.

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

Maximum operating pressure Maximum pressure on port T	PSI [bar]	5000 [350] 145 [10]
Maximum flow rate in the controlled lines Maximum flow rate in the free lines	GPM [l/min]	13 [50] 20 [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 class 20/18/15	
Recommended viscosity	cSt	25
Mass:	lbs [kg]	3.1 [1,4]

HYDRAULIC SYMBOLS

P03MSV-SP



1 • IDENTIFICATION CODE

P03MSV - S P - ___ - ___ ___ C - D

VALVE TYPE
PRESSURE CONTROL

VALVE SERIES	
CODE	NFPA SIZE
03	D03 INTERFACE

VALVE FUNCTION		
CODE	FUNCTION	AVAIL WITH PORTS
S	SEQUENCE	P

PORT	
CODE	PORT
P	P

PRESSURE ADJUSTMENT RANGE		
CODE	PSI	BAR
100	145 to 1000	10 to 70
200	435 to 2000	30 to 140
400	725 to 4000	50 to 280

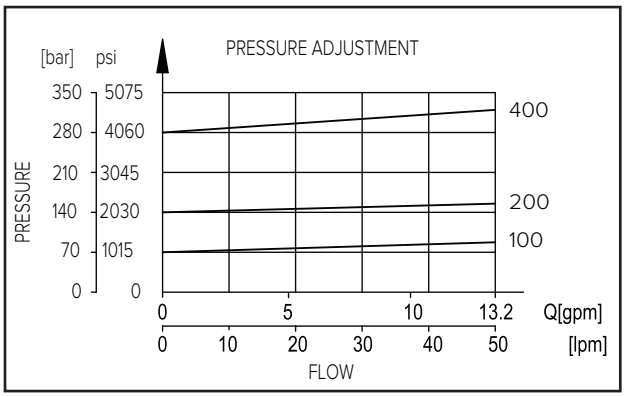
SEAL MATERIAL	
CODE	DESC.
A	BUNA-N
G	VITON

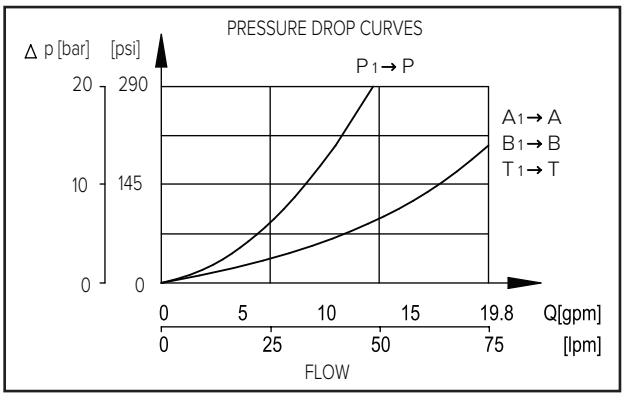
MECHANICAL	
CODE	DESCRIPTION
OMIT	STD W/ HEX HEAD ADJ.

MATERIAL SELECTION	
CODE	DESCRIPTION
C	CAST IRON

DESIGN LETTER

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





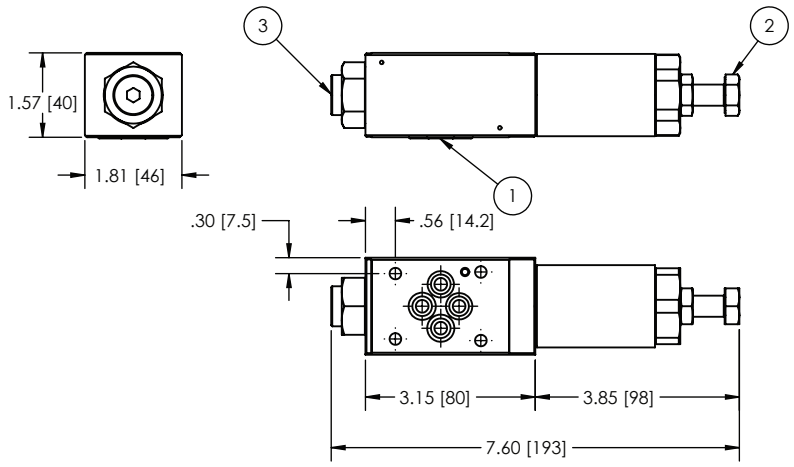
3 • HYDRAULIC FLUIDS

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

DIMENSIONS IN INCHES [mm]



1	Qty. 4 O-rings - size AS568-012 (.364 ID x .070 CS) 90 Shore
2	Hexagonal head adjustment screw. 17 mm Wrench Rotate clockwise to increase pressure.
3	Pressure gauge port SAE-04.

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