

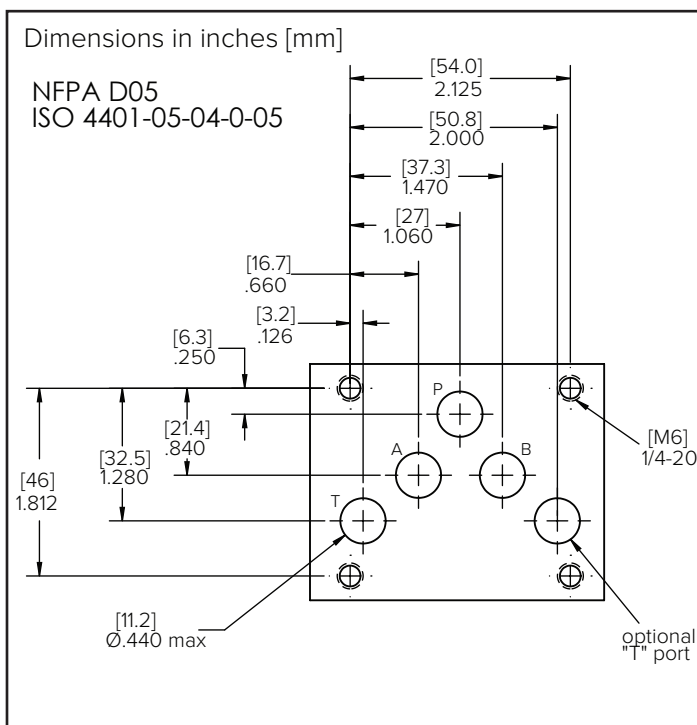
P05MSV-RCC/BCC

RESTRICTIVE AND BYPASS STYLE PRESSURE COMPENSATORS

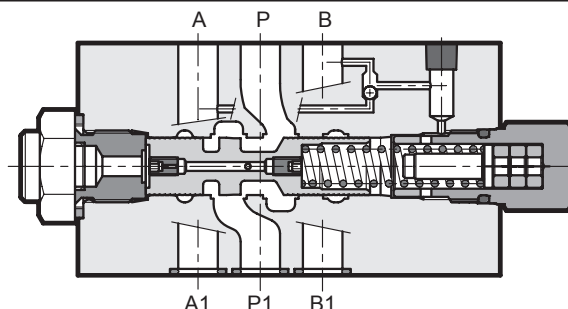
MODULAR VERSION
NFPA D05 ISO 4401-05

P max 5000 PSI 350 bar
Q max 26 GPM 100 l/min

MOUNTING INTERFACE



OPERATING PRINCIPLE

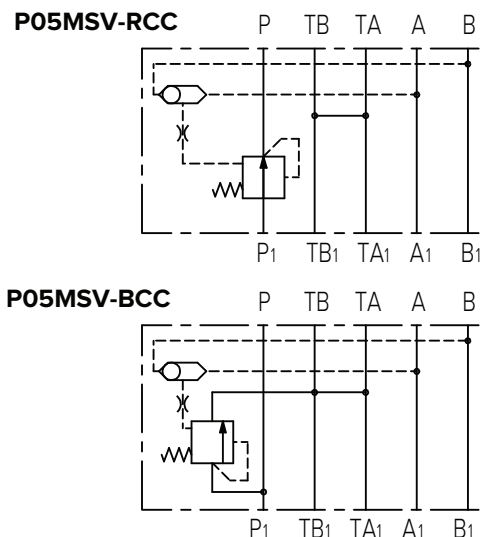


- The P05MSV-RCC/BCC pressure compensator stack valves are available in a restrictive or bypass style. The mounting interface is according to NFPA D05/ISO 4401-05 standards.
- Its function is to maintain the pressure drop across P port and the active cylinder port at a constant level.
- It is used together with a proportional directional control valve in order to control the flow rate independent of pressure variations.
- The selection of the pilot pressure on the A and B is carried out automatically with a shuttle check valve built into the compensator.
- The fixed adjustment compensator is available with pressure drop settings of 58 psi [4 bar] and 116 psi [8 bar].

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

Maximum operating pressure	PSI [bar]	5000 [350]
Characteristic p: fixed adjustment	PSI [bar]	58 & 116 [4 & 8]
Maximum flow rate	GPM [l/min]	26 [100]
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]	6.0 [2,7]

HYDRAULIC SYMBOLS

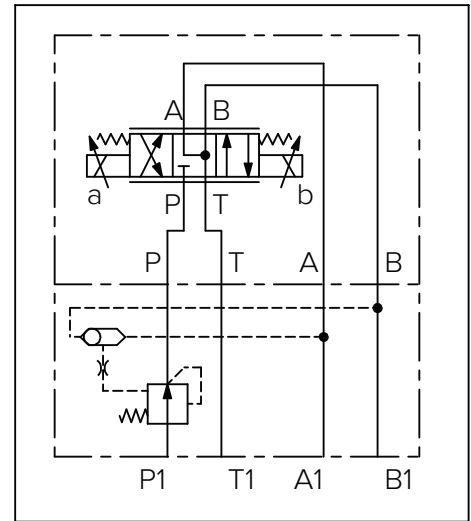


P05MSV-RCC/BCC

APPLICATION EXAMPLES

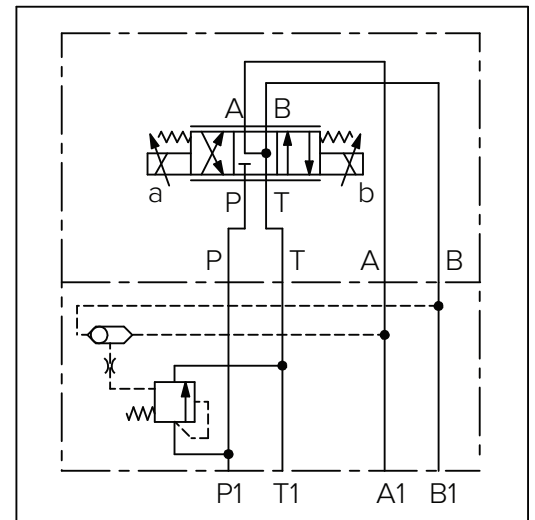
Restrictive (two-way) compensator with fixed adjustment, combined with a proportional valve model VED05M-3FC-.*.

RESTRICTIVE - 2 WAY



Bypass (three way) compensator with fixed adjustment, combined with a proportional valve model VED05M-3FC-.*.

BYPASS - 3 WAY



1 • IDENTIFICATION CODE

P05MSV - **C** - - - - **C** - **C**

VALVE TYPE

PRESSURE CONTROL

VALVE SERIES

CODE	NFPA SIZE
05	D05 INTERFACE

VALVE FUNCTION

CODE	FUNCTION	AVAIL WITH PORTS
RC	RESTRICTIVE (2-way)	A & B
BC	BYPASS (3-way)	A & B

PORT

CODE	PORT
C	P

SEAL MATERIAL

CODE	DESC.
A	BUNA-N
G	VITON

PRESSURE ADJUSTMENT RANGE

CODE	PSI	BAR
F4	58	4
F8	100	8

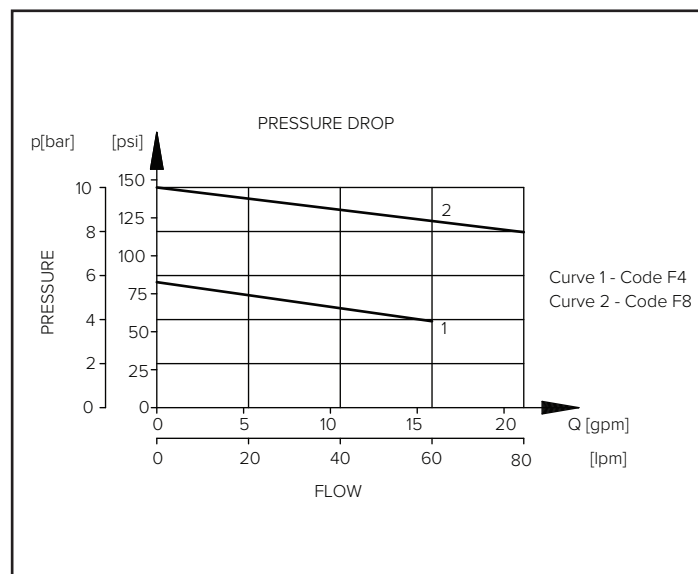
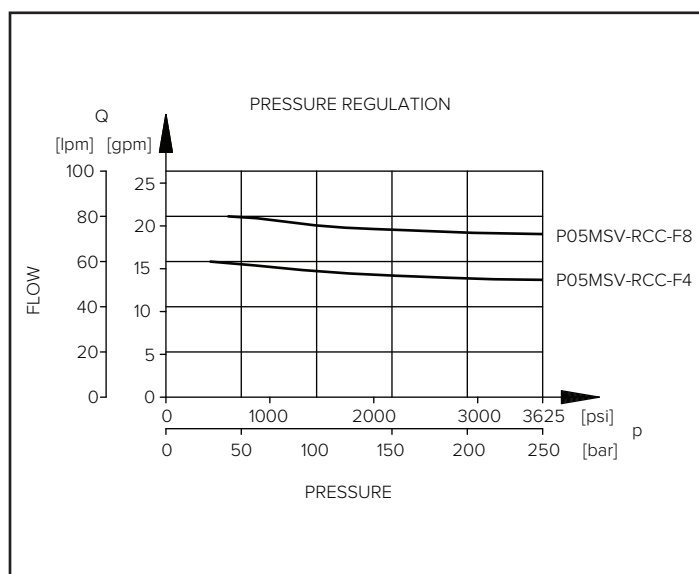
DESIGN LETTER

CODE	DESCRIPTION
C	CAST IRON

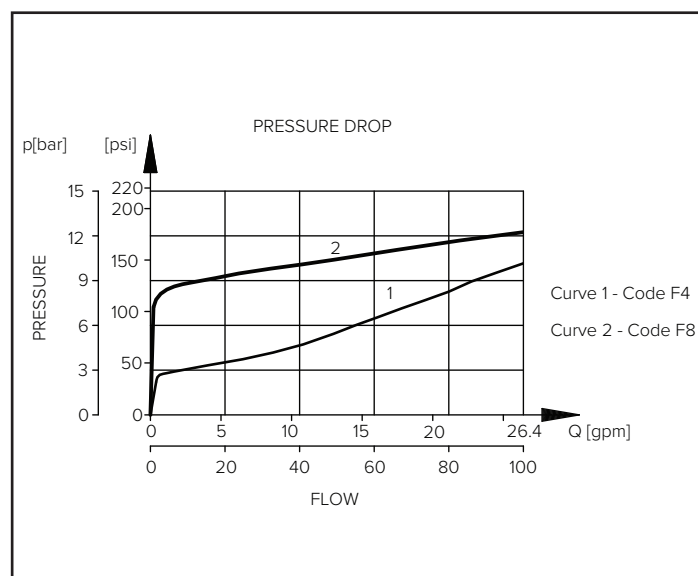
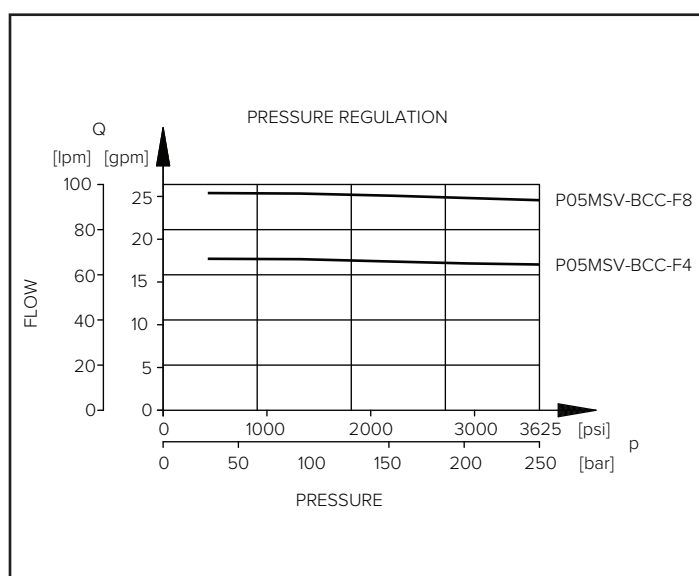
P05MSV-RCC/BCC

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

2.1 RESTRICTIVE (2-WAY) COMPENSATOR



2.2 BYPASS (3-WAY) COMPENSATOR



3 • HYDRAULIC FLUIDS

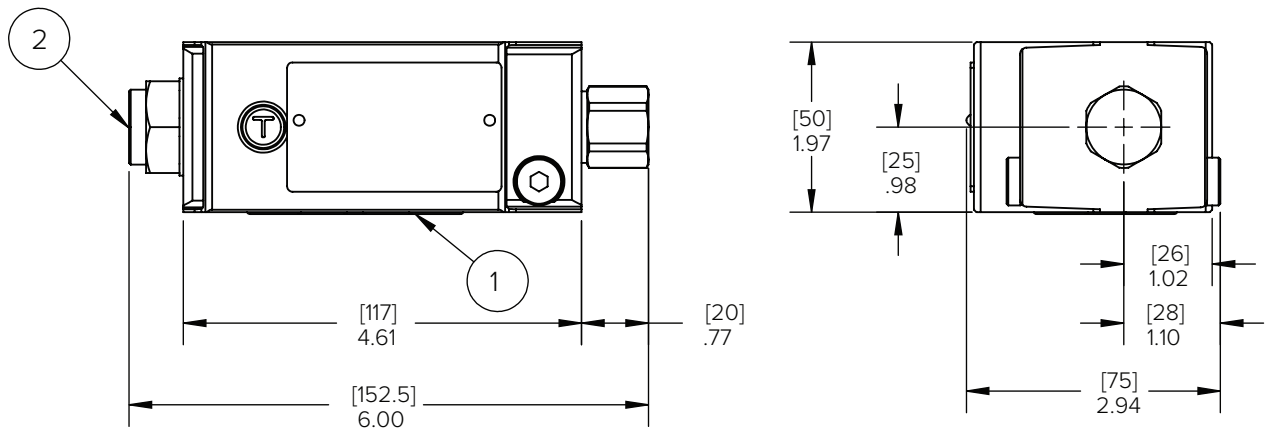
Use mineral oil-based hydraulic fluids HL or HM type, according to ISO 6743-4. For these fluids, use NBR seals (code A). For fluids HFDR type (phosphate esters) use FPM seals (code G). For the use of other kinds of fluid such as HFA, HFB, HFC, please consult our technical department. Using fluids at 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.

P05MSV-RCC/BCC

4 • OVERALL AND MOUNTING DIMENSIONS

DIMENSIONS IN INCHES [mm]



1	QTY. 5 O-Rings - Size AS568 - 014 (.489 ID x .070 CS) 90 Shore
2	Pressure gauge port 1/4" BSP