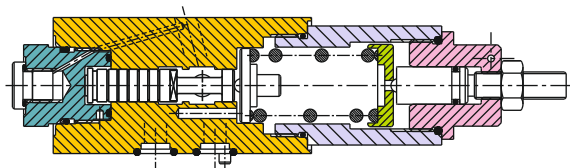


SERIES - MV10-3



Basic Characteristics

Operating Pressure (maximum) - 315 bar (4500 psi)

Rated Capacity (maximum) - 60 L/min

Approx. Weights

MV10-3 = 1.3 kg

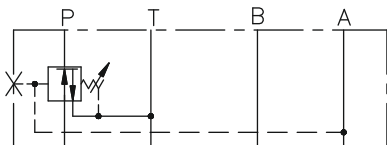
General Description

These single-stage valves operate by the application of pressure on the end of the valve spool, acting against a spring which is loaded by means of the adjustment mechanism.

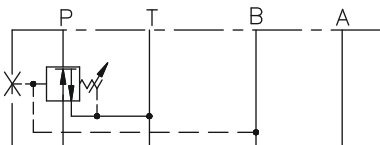
The flow path is normally open and is closed as the pilot pressure exceeds the setting of the valve. Excessive pressure in the reduced-pressure line is prevented by a pressure relieving function.

Functional Symbols

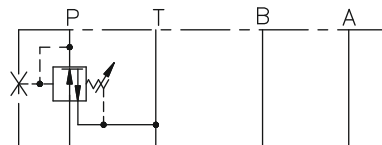
MV10 - 3 - PA



MV10 - 3 - PB



MV10 - 3 - PP



ORDERING INFORMATION

MV **10** - **3** - **P*** - **(L)** - ***** - **W** ***** - **40**
 1 2 3 4 5 6 7 8 9

1. Model Code - MV

2. Model Series - 10

3. Arrangement - CETOP 3

4. Port Operated Port -

PA = A Line pilot (pressure reducing in line P)

PB = B Line pilot (pressure reducing in line P)

PP = P Line pilot (pressure reducing in line P)

5. Adjustment

L = Adjustment at A port end

Omit = If Adjustment at B port end

6. Pressure Range -

HR = 44 - 435 psi

YD = 52 - 1015 psi

HC = 145 - 2030 psi

DR = 290 - 3625 psi

7. Adjustment type -

W = Screw & Locknut (standard)

8. Gauge Port Thread Type -

B - 1/8" BSPF

S - 7/16" - 20 UNF - 2B

9. Design No - 40 (Subject to change)

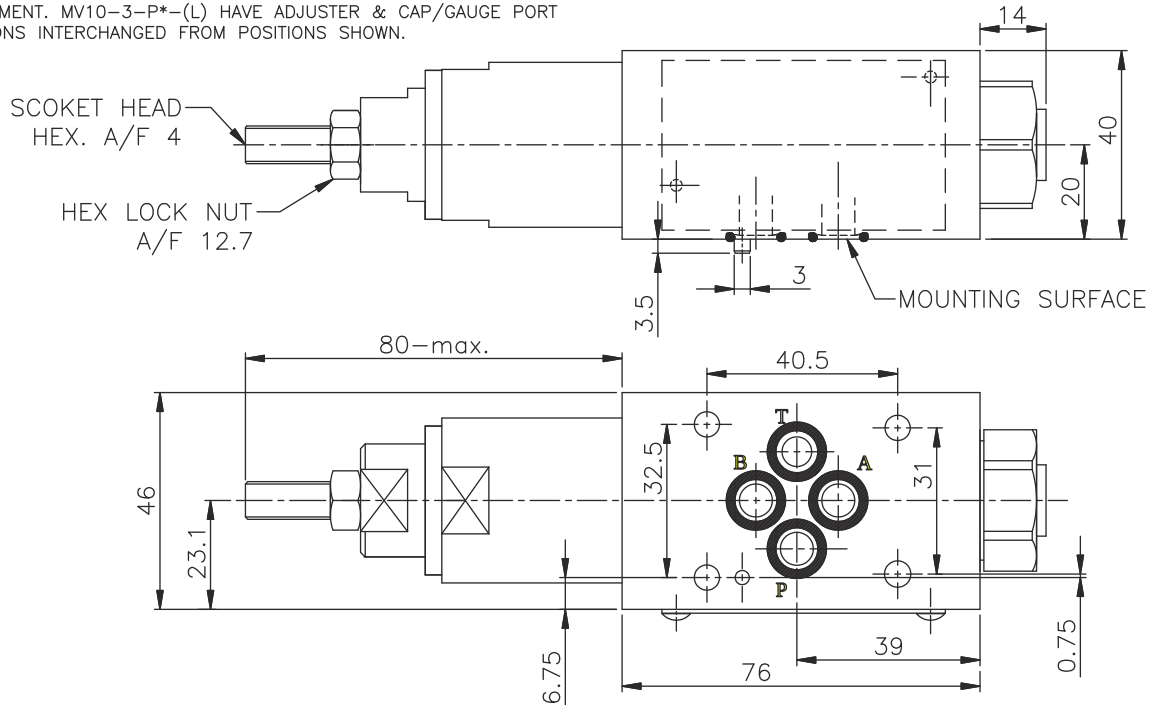
Typical Model Code :-

MV10 - 3 - PA - (L) - HR - W - B - 40

ALL DIMENSIONS ARE IN mm.

TO ADJUST VALVE SETTING SLACKEN OFF LOCKNUT
& TURN ADJUSTER SCREW.
TURN CLOCKWISE TO INCREASE PRESSURE, COUNTER-CLOCKWISE TO
DECREASE PRESSURE. RE-TIGHTEN LOCKNUT AFTER COMPLETING
ADJUSTMENT. MV10-3-P*-(L) HAVE ADJUSTER & CAP/GAUGE PORT
LOCATIONS INTERCHANGED FROM POSITIONS SHOWN.

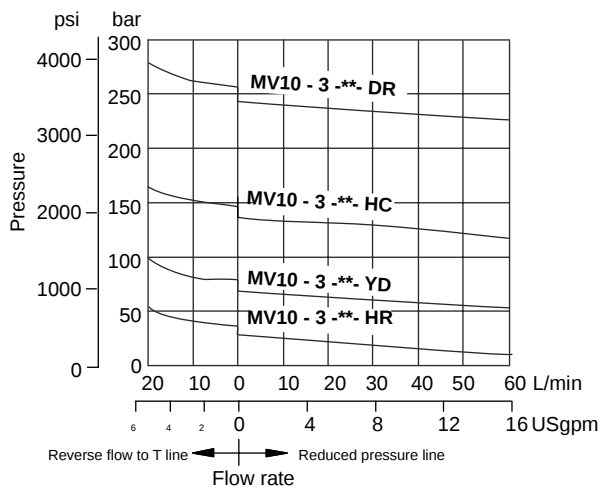
MV10-3-P*-(L)-*-W-*-40



Performance Characteristics

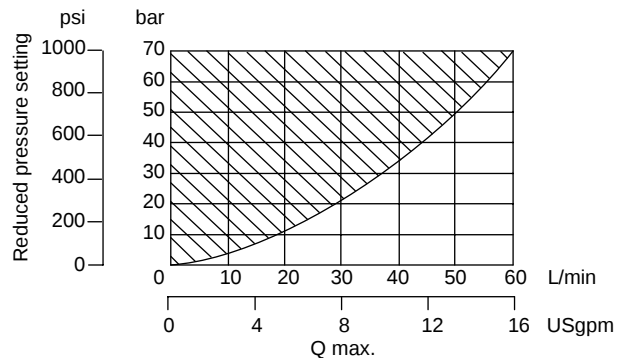
Typical performance with mineral oil at 21 cSt (102 SUS) and at 50°C (122°F).

MV10 - 3 - P *



MV10 - 3 - P *

Low Pressure/Flow Rate Minimum Performance



Effect of Back-Pressure

The effective reduced pressure is equal to the valve adjustment setting plus any back-pressure in line T

Dead Head Leakage

Typical leakage flow at 250 bar inlet pressure from reduced pressure line into T at "Dead Head" condition (i.e. No flow required at the reduced pressure outlet.) This leakage flow must be provided at the inlet line P in order to maintain the reduced outlet pressure.
MV10-3 = 400