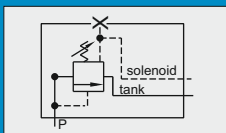
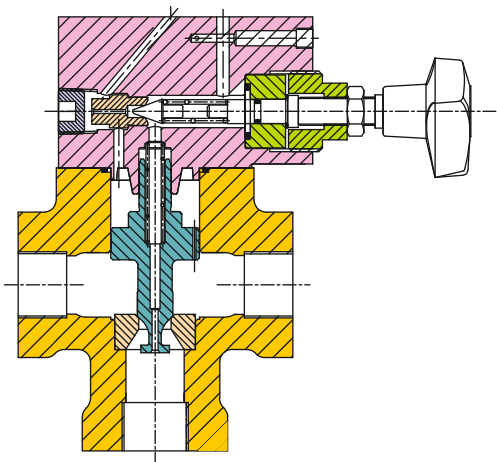


# SOLENOID CONTROL PILOT OPERATED RELIEF VALVES (THREADED CONNECTION)



## SERIES - PCV12



### Basic Characteristics

Operating Pressure (maximum) - 210 bar (3000 psi)

Rated Capacity (maximum) - **PCV12-06** = 75 L/min.  
**PCV12-10** = 190 L/min.

### Approx. Weights

**PCV12-06** = 5 kg  
**PCV12-10** = 8.5 kg

### General Description

All valves are of Microtact Balanced Piston Type construction. These valves are generally used for applications requiring a electricity controlled adjustable pressure relief or regulating valve to limit the pressure in an oil circuit to the desired maximum

#### Pressure adjustment

Select pressure range so that excessively high working pressures will not be imposed upon pump or other equipment. Adjustment of pressure is accomplished by loosening jam nut and turning adjustment screws. Clock wise rotation increases pressure and counterclockwise rotation decreases pressure.

#### Installation Data

Tank Connection : The tank connection should be piped directly to tank to minimize back pressure. Any back pressure in the tank line is additive to the valve pressure setting. If tank line back pressure exceeds system pressure by 7.0 bar (100 psi) a malfunction may occur. Transient pressure peaks in the tank line must not exceed 155 bar (2250 psi).

**Note :** Surges of oil in a common tank line serving these and other valves can be of sufficient magnitude to cause inadvertent shifting of the pilot spool of the valves. Separate tank lines or a vented manifold with a continuous downward path to tank is necessary.

## ORDERING INFORMATION

**PCV 12 - \* - T - \* \* - \* - \* - M - \* - \* - 40 - IN**

1 2 3 4 5 6 7 8 9 10 11 12

1. Model Code - PCV

2. Model Series - 12

3. Nominal Valve Size -  
• 06 - 3/4"  
• 10 - 1-1/4"

4. Connection Type -  
T = Thread Connection (BSP)

5. Pilot Spool Function -  
0, 1, 2 - indicates venting condition

6. Pilot Spool Spring Arrangement -  
A - Spring Offset  
C - Spring Centered  
F - Energize to center

7. Pressure Range -  
YD = 125 - 1000 psi  
DI = 500 - 2000 psi  
RD = 1500 - 3000 psi

8. High Vent Spring -  
V = Optional High Vent Spring Installed  
(Omit if not required)

9. M - Flag Symbol

10. Connector -  
C0 - without plugin connector  
C1 - with plugin connector  
C2 - with plugin connector & light indicator

11. Voltage - Coil Identification -  
A 115 - AC Coil  
A 230 - AC Coil  
D 24 - DC Coil

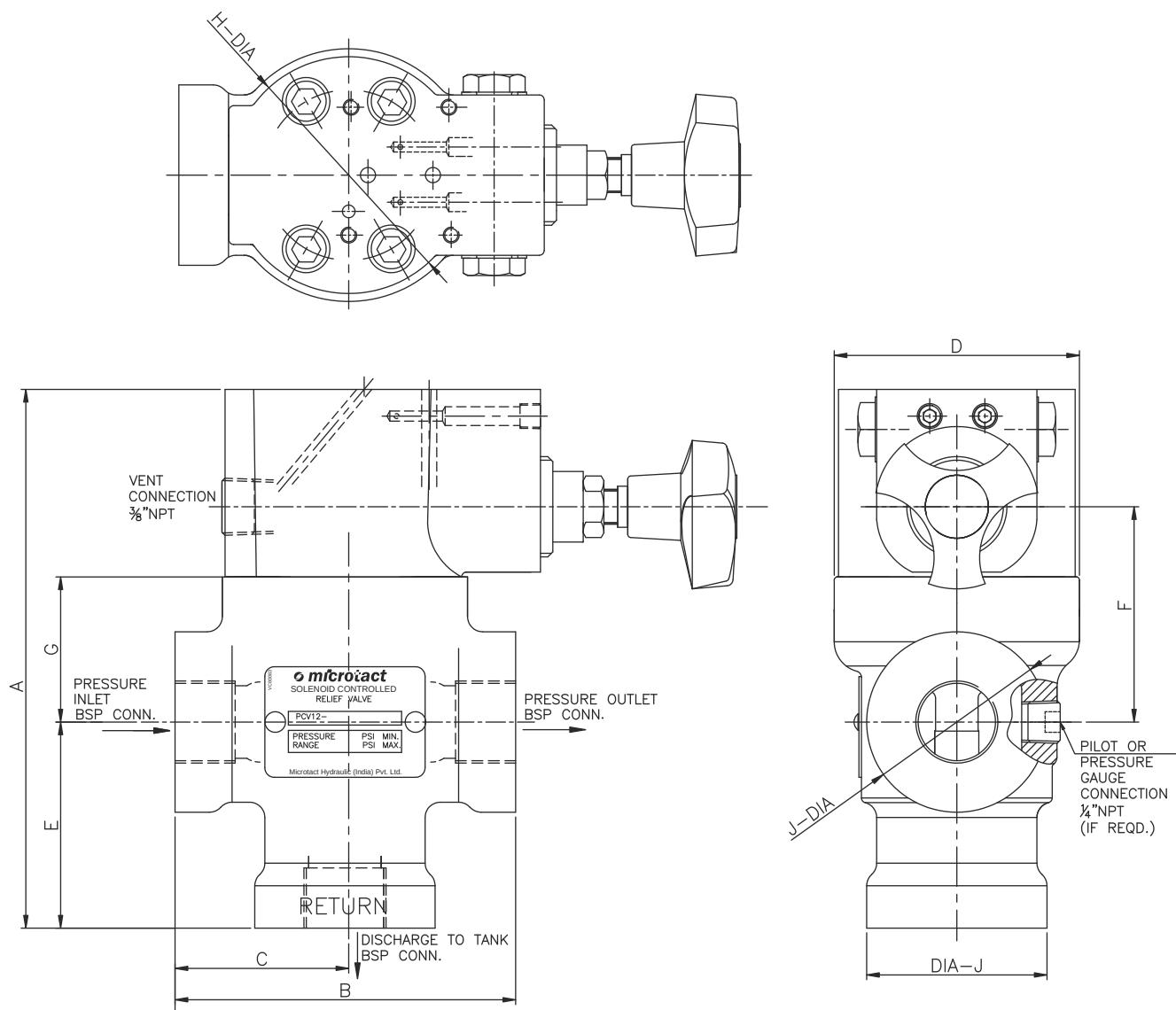
12. Design No - 40-IN (Subject to change)

**Note:-** Required Order as per Directional Control Valve (DCV1) order separately.

Typical Model Code :- **PCV12-06-T-0A-YD-V-M-CO-A115-40-IN**  
**PCV12-10-T-0A-YD-V-M-CO-A115-40-IN**

# SOLENOID CONTROLLED PILOT OPERATED RELIEF VALVES (THREAD CONNECTION)

PCV12



ALL DIMENSIONS ARE IN mm.

| Model Series | A   | B   | C    | D    | E    | F  | G  | H  | J  |
|--------------|-----|-----|------|------|------|----|----|----|----|
| PCV12-06     | 171 | 108 | 54   | 77.8 | 65   | 68 | 46 | 76 | 57 |
| PCV12-10     | 195 | 127 | 63.5 | 95   | 77.8 | 87 | 87 | 92 | 76 |