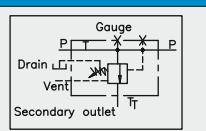
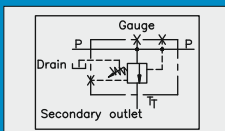


SEQUENCE VALVES (THREADED CONNECTION)



SERIES - PCV10

Basic Characteristics

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

Rated Capacity (maximum) -
PCV10-06-T/S = 227 L/min. (Std.)
= 340 L/min. (High Flow)
PCV10-10-T/S = 454 L/min. (Std.)
= 680 L/min. (High Flow)

Approx. Weights

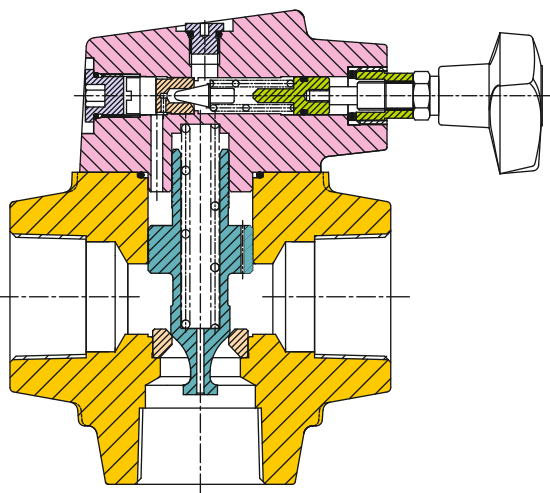
PCV10-06-T/S = 2.7 kg.

PCV10-10-T/S = 6.4 kg.

General Description

Inlet and Outlet pressure connections can be used interchangeably when the valve is mounted in the pressure line. The valve may also be teed off the pressure line with one of the inlet pressure connections plugged.

Minimum venting pressure designates the pressure at which the valve operates (regardless of adjustment) when the vent connection is open to tank. This action is sometimes required during a part of a cycle. Use only when indicated by circuit.



Pressure adjustment

Pressure is adjusted by loosening jam nut and turning the control knob. Clockwise rotation increases pressure and counter clockwise rotation decreases pressure.

Filtration

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 18/15 or cleaner.

ORDERING INFORMATION

PCV 10 - * - * - * - * - Y - *

1 2 3 4 5 6 7 8

1. Model Code - PCV
2. Model Series - 10
3. Nominal Valve Size - • 06 - 3/4" pipe or 1.0625"-12UN-2B • 10 - 1-1/4" pipe or 1.6250"-12 UN-2B
4. Connection Type - T = NPTF Thread S = SAE Straight Thread

5. Pressure Range - YD = 125 - 1000 psi DC = 500 - 2000 psi RD = 1500 - 3000 psi
6. High Vent Spring - V = Optional High Vent Spring Installed Omit if not required
7. Y = External Drain Feature
8. Design No - For 06-50 (Subject to change) For 10-30 (Subject to change)

Typical Model Code :- PCV10-06-T-YD-V-Y-50, or PCV10-06-S-YD-V-Y-50
PCV10-10-T-YD-V-Y-30, or PCV10-10-S-YD-V-Y-30

Sequence Valve Configuration

Type "Y" (pressure sequence) versions of the PCV10-6/10 valve are designed for applications that require an adjustable pressure operated valve to control the sequence of flow to another branch of a circuit.

Sequence Operation

When pressure at the inlet port exceeds the valve setting, flow from the pressure inlet is directed to the secondary outlet port. The secondary outlet receives full pressure, and the valve acts as a tee in the line. Reverse free flow connections (secondary outlet to primary inlet) are not provided in this design. Select an appropriate pressure range for the valve so that the pump and other equipment are not subjected to excessively high working pressures. These sequence valves perform the same hydraulic circuit function as PCV6-06-S and PCV6-10-S sequence valves. The PCV10-06/10 models, however, are capable of functioning at higher flows and faster sequencing with less pressure overshoot.

High-Flow Designation

A high vent spring must be included in high-flow models of the PCV10-06-S and PCV10-10-S.

Tank Connection

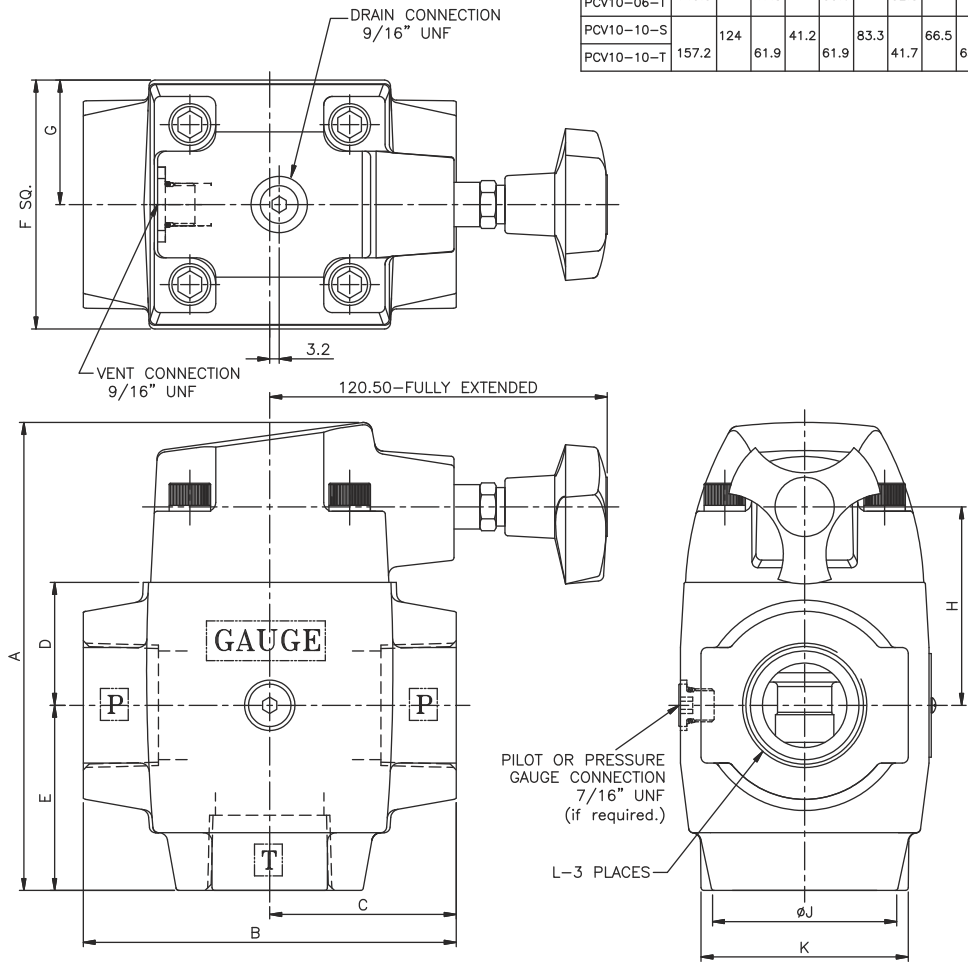
Flow from the T port should be piped directly to the tank to minimize back pressure. Any pressure in the tank line is additive to the pressure setting. If tank line back pressure exceeds system pressure by 7 bar (100 psi), a malfunction may occur. Contact your Microtact representative for alternatives.

Pressure Range

The available pressure ranges for this valve are from 8,5 to 70 bar (125 to 1000 psi), from 35 to 140 bar (500 to 2000 psi), and from 100 to 210 bar (1500 to 3000 psi). Select the appropriate pressure range that will prevent excessively high working pressures from being imposed on the pump and other equipment.

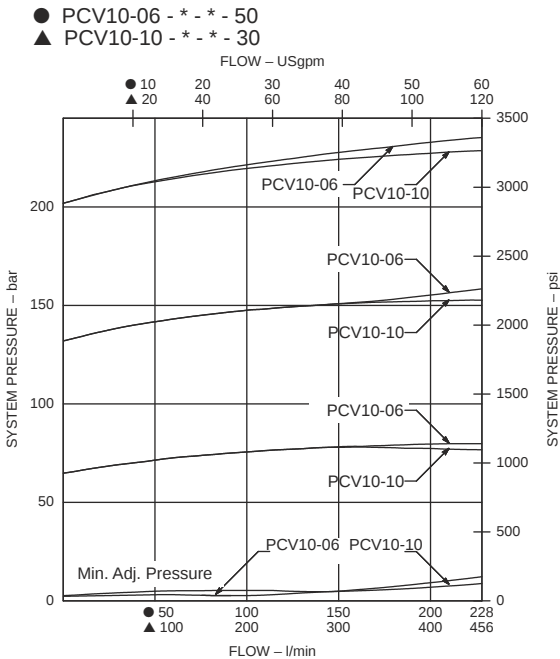
ALL DIMENSIONS ARE IN mm.

MODEL	A	B	C	D	E	F	G	H	J	K	L-SYSTEM CONNECTIONS	
											PCV10-S MODELS	PCV10-T MODELS
PCV10-06-S		95.5		39.9		65.6		62.0		55	1 1/8"-12 UN 2B THD.	3/4" NPTF THD.
PCV10-06-T	143.3		47.8		55.6		32.8		46			
PCV10-10-S		124		41.2		83.3		66.5		70	1 3/8"-12 UN 2B THD.	1 1/4" NPTF THD.
PCV10-10-T	157.2		61.9		61.9		41.7		63.5			



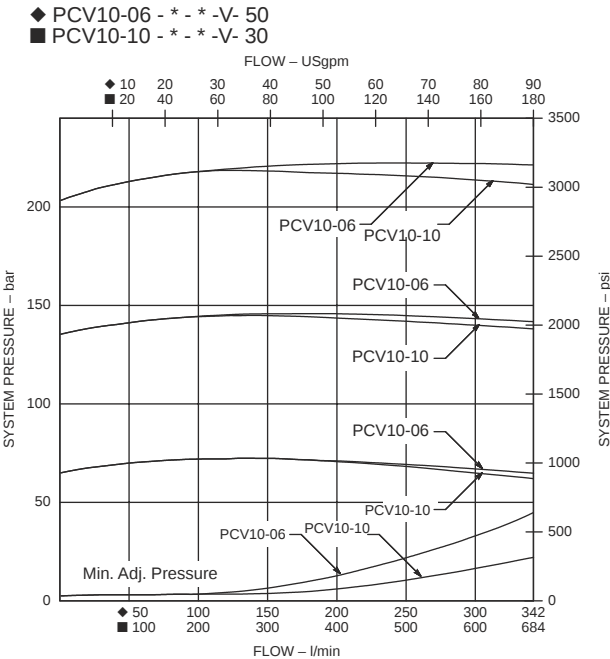
Performance Curves

Nominal Override Characteristics



Performance Curves

High Flow Designation



Vent Pressure Versus Flow

