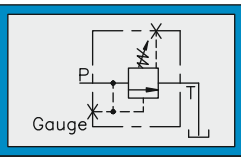
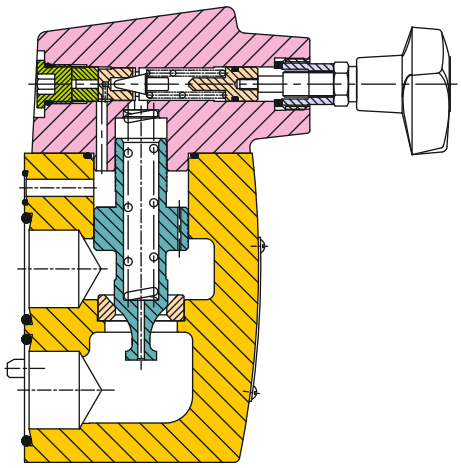
BALANCED PISTON TYPE RELIEF VALVES (GASKET CONNECTION)



SERIES - PCV2



Basic Characteristics

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

Rated Capacity (maximum) -
PCV2-06-50 – 227 L/min. (Std.)
– 340 L/min. (High Flow)
PCV2-10-30 – 454 L/min. (Std.)
– 680 L/min. (High Flow)

Mounting Subplate-
PCV2-06-50 = VC20179
PCV2-10-30 = VC20180

Approx. Weights

PCV2 - 06 = 5.350 kg.
PCV2 - 10 = 8.600 kg

General Description

Includes applications requiring an adjustable pressure relief or regulating valve to limit the pressure in an oil circuit to the desired maximum.

In addition to conventional relief valve operation, two other operational features are provided
1. System pressure may be limited to the relative low venting pressure by directing flow from the vent connection to tank.
2. System pressure may be remotely controlled by directing flow from the vent connection to a remote control pressure relief valve.

RELIEF VALVE

The pressure setting of the relief valve selected should be approximately 150 to 200 psi above the actual system working pressure. A higher setting may waste power and impose unnecessary load on the pump and other system components.

Pressure Adjustment

Pressure is adjusted by loosening the jam nut & turning the control knob. Clockwise rotation increases pressure; counterclockwise rotation decreases pressure.

Filtration

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

ORDERING INFORMATION

PCV	2	-	*	-	G	-	*	-	*	-	*
1	2		3		4		5		6		7

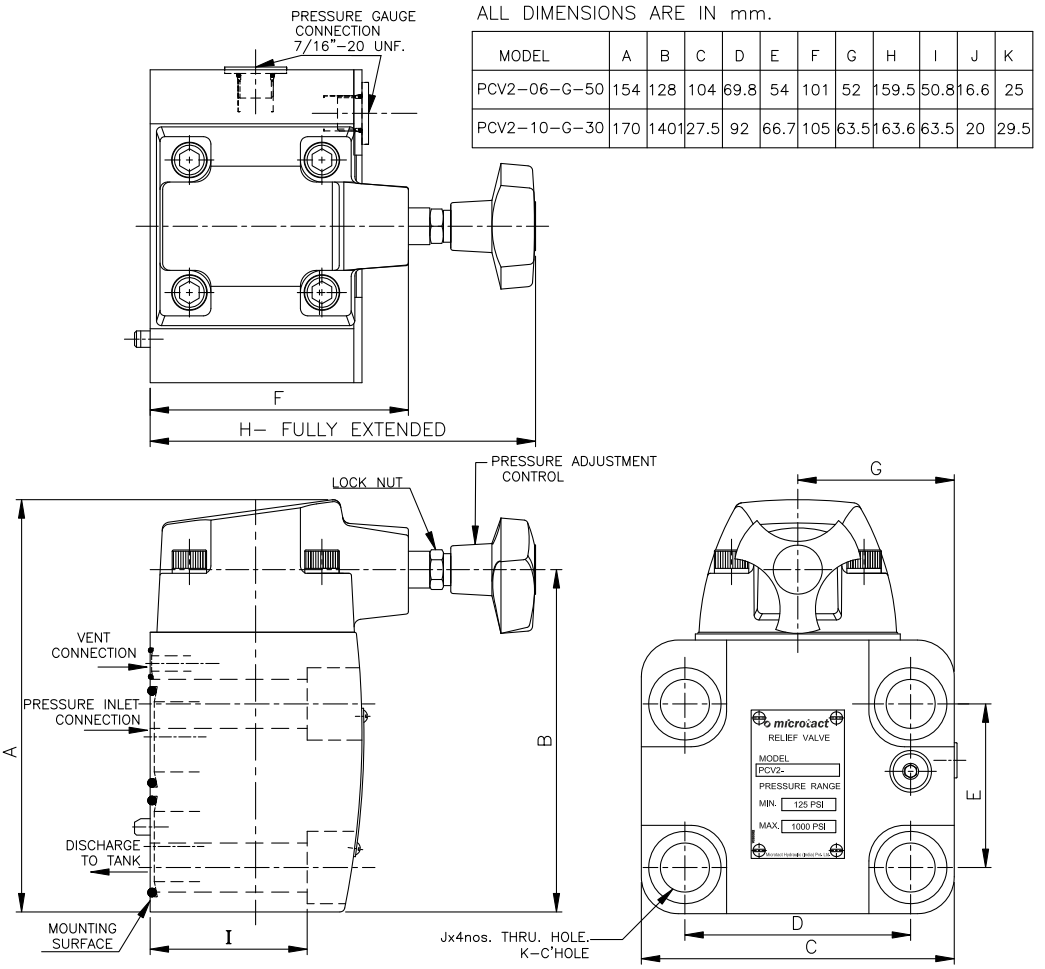
1. Model Code - PCV
2. Model Series - 2
3. Nominal Valve Size -
   • 06 – 3/4" pipe or 1.0625"-12 UN-2B
   • 10 – 1-1/4" pipe or 1.6250"-12 UN-2B
4. Connections Type -
   G = Gasket Connection
5. Pressure Range -
   YD = 125 - 1000 psi
   DC = 500 - 2000 psi
   RD = 1500 - 3000 psi
6. High Vent Spring -
   V = Optional High Vent Spring Installed
   Omit if not required
7. Design No – For 06 -50 (Subject to change)
   For 10 -30 (Subject to change)

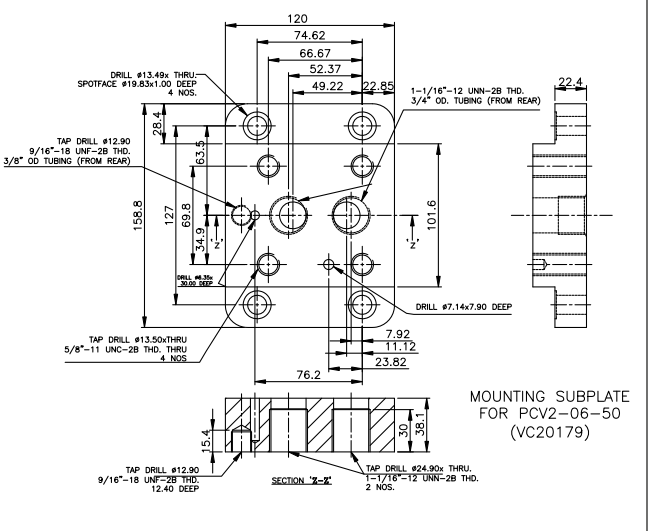
Typical Model Code :- **PCV2-06-G-YD-50, or PCV4-06-G-YD-V-50**
PCV2-10-G-YD-30, or PCV2-10-G-YD-V-30

BALANCED PISTON TYPE RELIEF VALVES PCV2

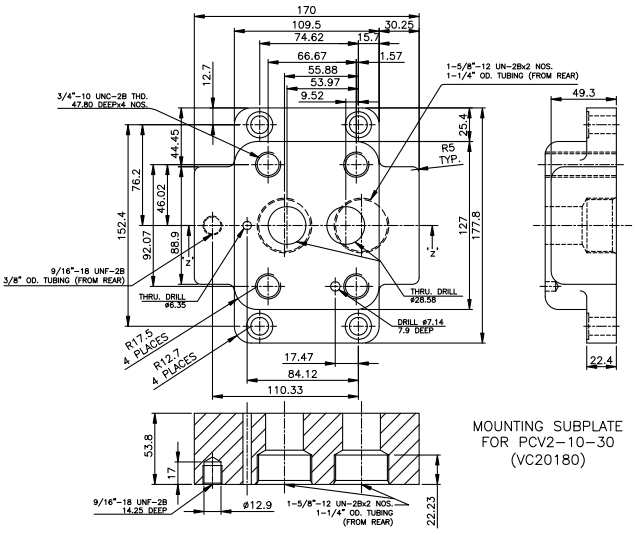
ALL DIMENSIONS ARE IN mm.

MODEL	A	B	C	D	E	F	G	H	I	J	K
PCV2-06-G-50	154	128	104	69.8	54	101	52	159.5	50.8	16.6	25
PCV2-10-G-30	170	140	127.5	92	66.7	105	63.5	163.6	63.5	20	29.5





MOUNTING SUBPLATE FOR PCV2-06-50 (VC20179)



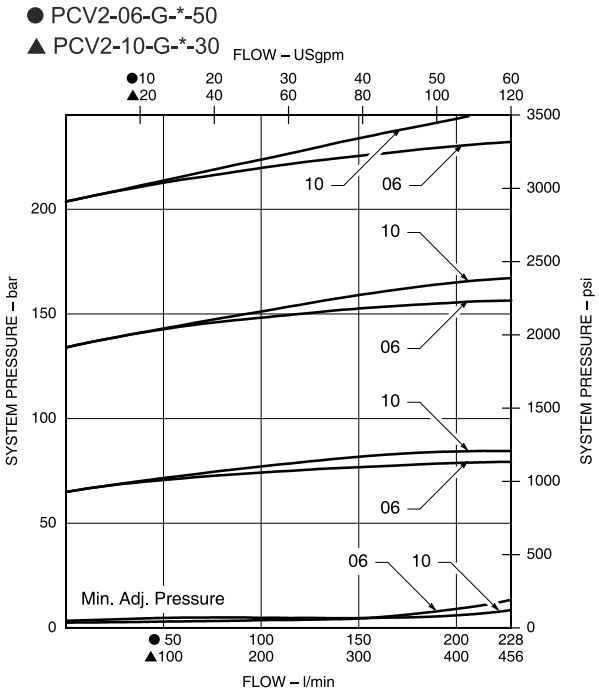
MOUNTING SUBPLATE FOR PCV2-10-30 (VC20180)

TANK CONNECTION - Should be piped directly to the tank to minimize back pressure. Any pressure in the tank line is additive to the pressure setting. If back pressure exceeds system pressure by 100 psi a malfunction may occur.

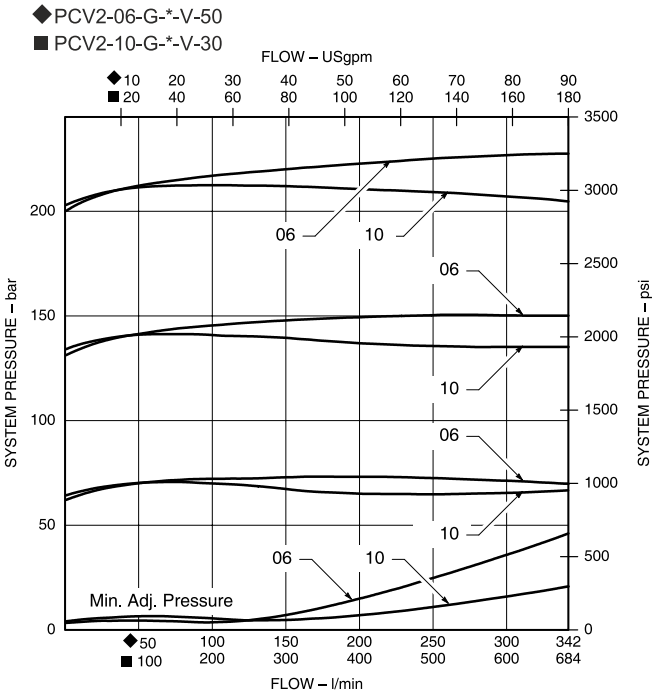
DRAIN CONNECTION - Should be piped directly to the tank to minimize back pressure. Any pressure in the drain line is additive to the pressure setting.

Performance Curves

Nominal Override Characteristics



High Flow Designation



Vent Pressure Versus Flow