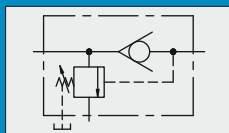
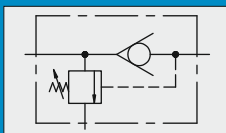
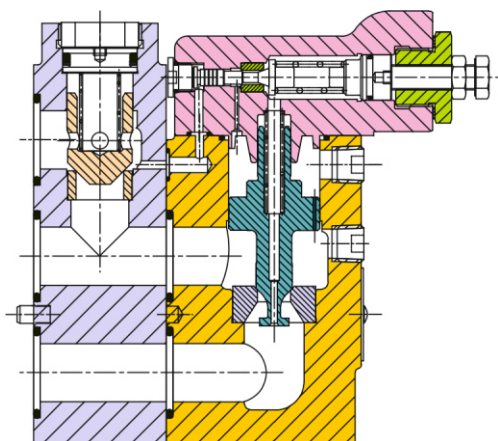


UNLOADING RELIEF VALVES (GASKET CONNECTION)



SERIES - PCV7



Basic Characteristics

Operating Pressure (maximum) - 210 bar (3000 psi)	Rated Capacity (maximum) - PCV7-06 = 95 L/min. PCV7-10 = 246 L/min.
Seal Kit - PCV7-06 = VC90032 PCV7-10 = VC90044	Mounting Subplate- PCV7-06 = VC20112 PCV7-10 = VC20113

Approx. Weights

PCV7-06 = 11.3 kg.
PCV7-10 = 22 kg.

General Description

General usage is in oil hydraulic circuits where a pressure regulator is required to automatically unload the pump by diverting the pump delivery to the reservoir at low pressure when the accumulator pressure reaches the adjusted maximum. When the accumulator pressure drops to the cut-in pressure (approximately 85% of adjusted maximum), this valve directs pump delivery to the accumulator and hydraulic system. An integral check valve prevents return flow from the accumulator through the unloading valve.

This valve may also be used with a double pump to deliver a large volume oil to the system at low pressure and a small volume at high pressure serving the same function as separate Unloading Valve and Check Valve.

Pressure adjustment

Adjustment of cut-out pressure is accomplished by loosening jam nut and turning adjusting screw. Clockwise rotation increases pressure and counter clockwise rotation decreases pressure.

Back pressure at tank port

Back pressure at tank port of PCV7-ED Series (externally drained) valves will not affect the operation at upto 85% of inlet pressure. Back pressure at the discharge, port of the PCV7-ID series (internally drained) valves must not exceed 5% of the inlet pressure.

Drain connections

For PCV7-ED series valves drain must be connected to tank at atmospheric pressure. Failure to connect drain can result in infinite system pressure and machine damage. PCV7-ID series valves have internal drain and this port is not used.

Filtration

25 microns or finer

ORDERING INFORMATION

PCV 7 - * - * - G - * - * - 12

1 2 3 4 5 6 7 8

1. Model Code - PCV
2. Model Series - 7
3. Drain - ED = Externally Drained ID = Internally Drained
4. Nominal Valve Size - • 06 - 3/4" Pipe • 10 - 1-1/4" Pipe
5. Connection Type - G = Gasket Connection

6. Pressure Range - DL = 350 - 1000 psi DC = 500 - 2000 psi RD = 1500 - 3000 psi
7. High Vent Spring - V = Optional High Vent Spring Installed Omit if not required
8. Design No - 12 (Subject to change) For 06 only = 11-S15 (without check valve)

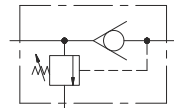
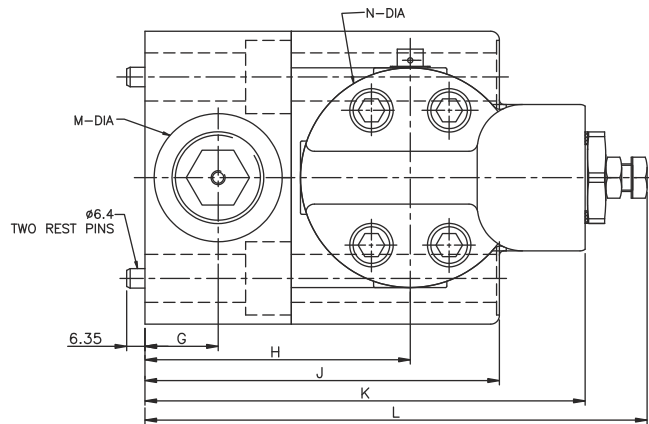
Typical Model Code :-
PCV7-ED-06-G-DL-V-12
PCV7-ED-10-G-DL-V-12
PCV7-ID-06-G-DC-V-11-S15

RELIEF VALVES

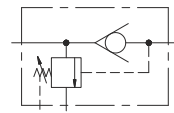
PCV7

ALL DIMENSIONS ARE IN mm.

Model Series	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	AZ
PCV7-06-12	51	102	140	76	135	160	25	92	124	154	181	44	76	16	16.8	25.4	16	3
PCV7-10-12	60	120	179	95	168	217	33	117	157	179	206	63	95	19	19.8	29.5	19	1.5



PCV7-ED



PCV7-ID

