

PREFILL AND EXHAUST VALVE MODEL : PEV40 TO PEV80

Description

Seat type construction.

Allows free flow from port A to port B.

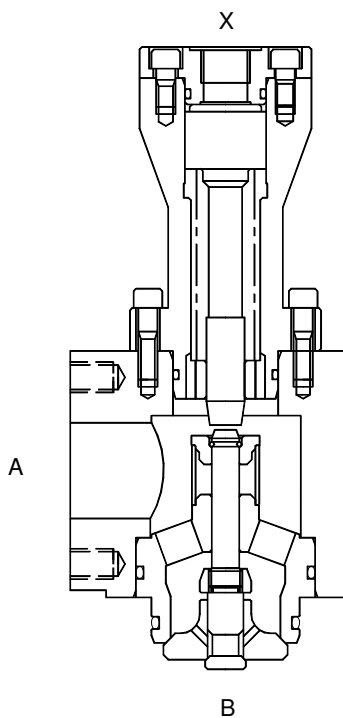
Flow from port B to port A can be effected by applying pilot pressure to it's port X.

Model with decompression feature opens in two stages progressively, allowing smooth and rapid exhaust of the compressed oil.

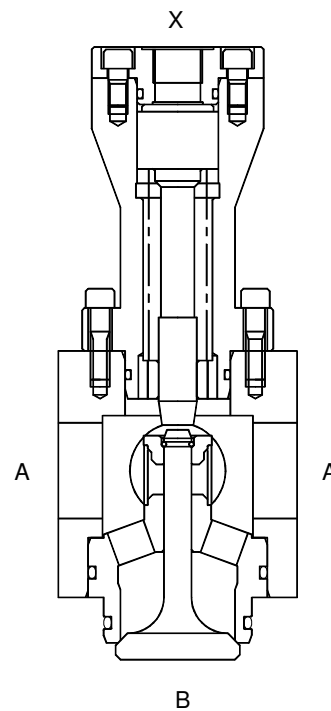
Opening and closing time of the valve can be influenced by providing Throttle cum check valve in pilot line.



Section

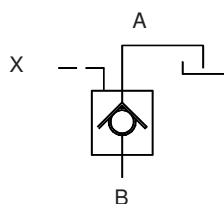


Prefill valve with decompression feature.



Prefill valve without decompression feature.

Hydraulic Symbol

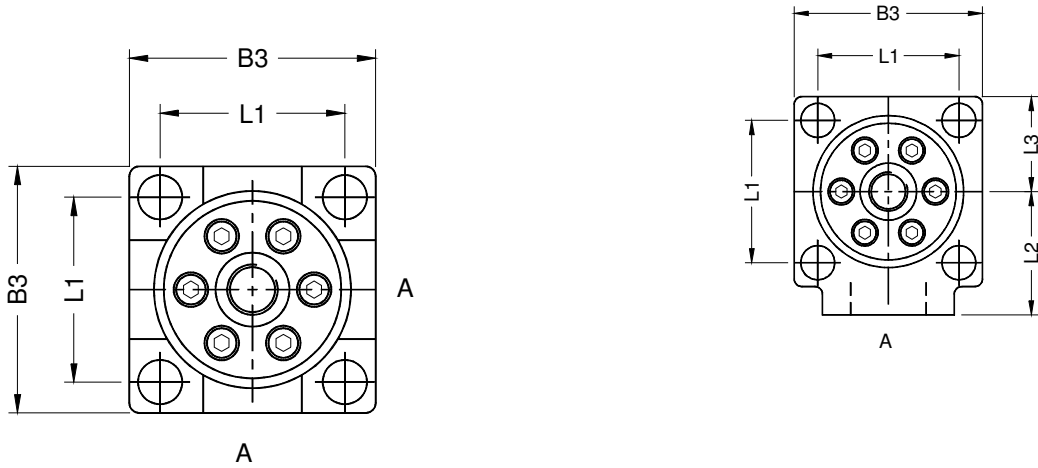
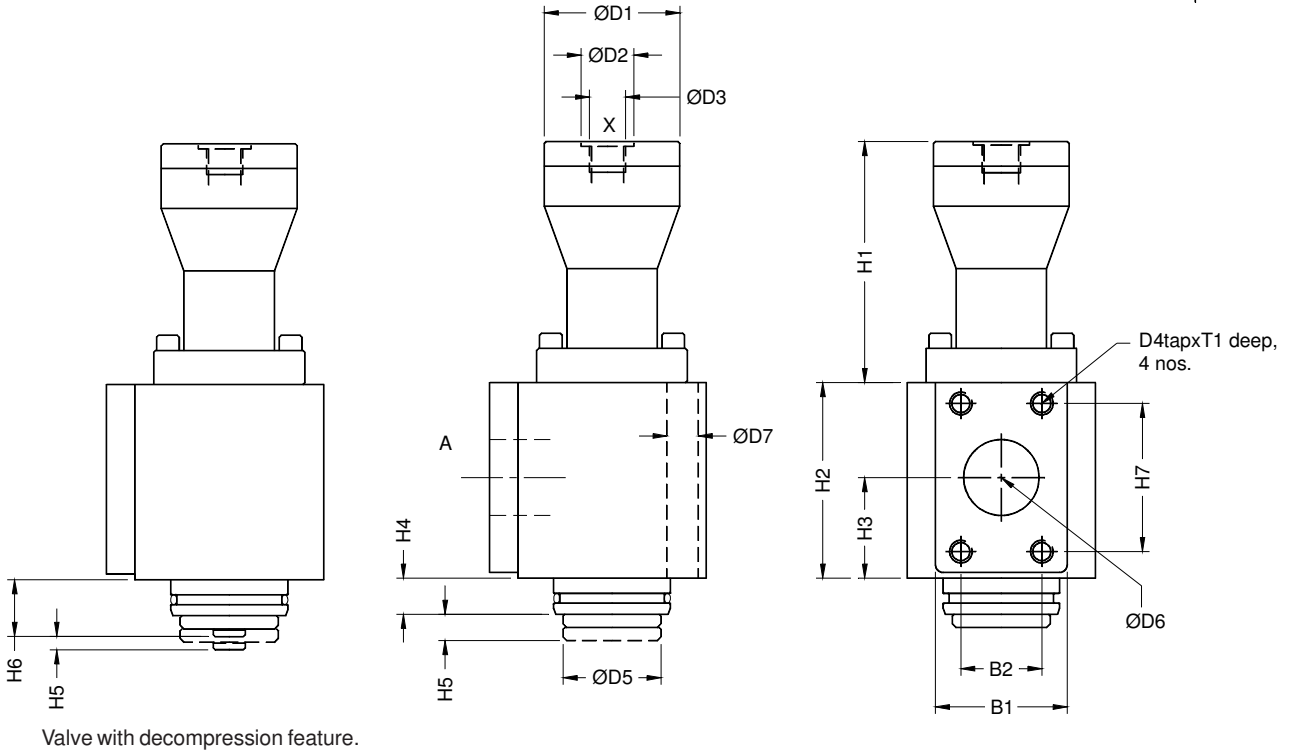
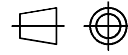


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Unit Dimensions.

Valve with flange port at 'A'

Dimensions in mm.

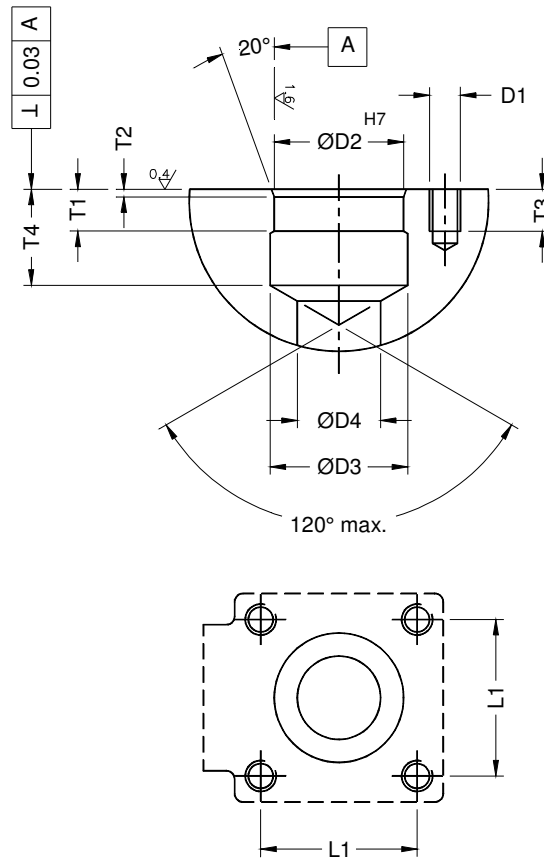


Plan valid for valves model PEV**B** only.

Size	Mas- s kg	B1	B2	B3	φ D1	φ D2	φ D3	φ D4	φ D5	φ D6	φ D7	H1	H2	H3	H4	H5	H6	H7	L1	L2	L3	T1
40	9	70	43	100	72	30	G1/2	M12	52	40	18	127	103	53	26	10	30	78	75	65	50	18
50	14	100	51	120	87	30	G1/2	M12	67	50	22	157	113	58	32.5	12	37.5	89	90	75	60	18
63	25	115	62	145	105	30	G1/2	M16	82	63	26	186	139	71.5	34	15	40	106.5	105	90	72.5	25
80	45.5	115	62	180	132	36	G3/4	M16	102	80	33	237	160	77.5	36	20	43	106.5	130	102	90	25

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Mounting cavity details.



Size	D1	$\phi D2$	$\phi D3$	$\phi D4$	L1	T1	T2	T3	T4 min.	Valve fixing screws	Tightening torque Nm
40	M16x2	62	66	40	75	20	4	27	46	M16x2x130L	290
50	M20x2.5	80	84	50	90	25	5	27	57	M20x2.5x140L	570
63	M24x3	95	104	63	105	25	5	42	64	M24x3x180L	980
80	M30x2	115	130	80	130	30	5	65	76	M30x2x200L	1960

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Technical Specifications.

- Construction Poppet type pilot operated
- Mounting type Inside oil tank mounting or flanged A port.
Special machined cavity for port B
- Mounting position Optional.
- Flow direction Free flow from port A to port B
Pilot flow from port B to port A.
- Operating pressure For port A 16 bar, B and X 315 bar.
- Cracking pressure 0.2 bar.
- Pilot pressure required to have flow from port B to port A $P_x > [(P_b - P_a) \times 2] + 8$ bar. to open main poppet of the valve.
 $P_x > [(P_b - P_a) \div 5] + 8$ bar. to open the decompression poppet of the valve.
Where P_x = Pilot pressure at port X (bar)
 P_a = Pressure at port A (bar)
 P_b = Pressure at port B (bar)

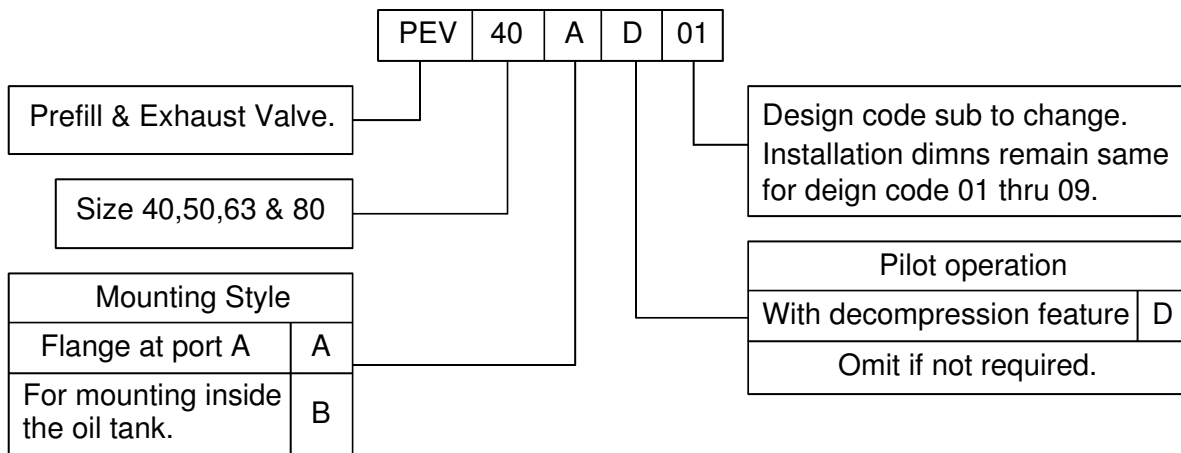
Nominal flow handling capacity (l / min.)

Size	At an average velocity of oil through the valve (m / sec)							
	0.5	1	1.5	2	2.5	3	3.5	4
40	38	76	114	152	190	228	260	304
50	59	118	177	236	295	354	413	472
63	93	186	279	372	465	508	651	744
80	152	304	456	608	760	912	1064	1216

Note :- Recommended oil velocity during prefilling must be equal to or less than 2 m / sec.

- Hydraulic medium Mineral oil.
- Viscosity range 10 cSt to 380 cSt.
- Temperature range -20 °c to 70 °c.
- Fluid cleanliness requiremnet As per ISO 16 / 13.

Ordering Code



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