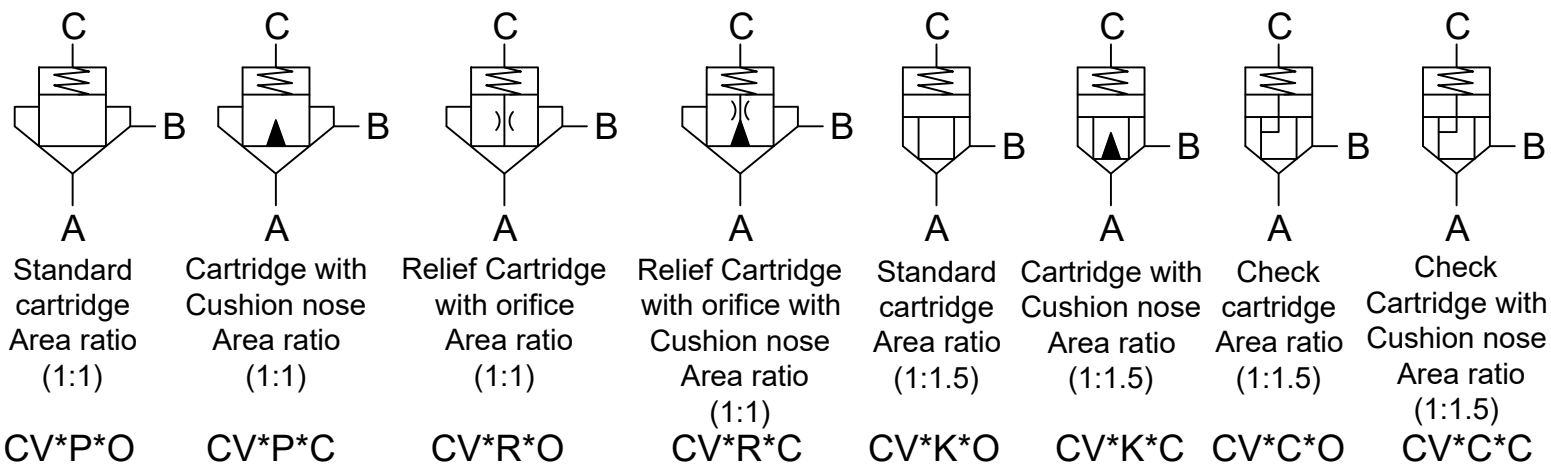


Description

The Cartridge Valves with model CV*** are used to control oil pressure flow rate or direction and are designed for into cavities machined as per ISO 7368. These cartridge valves are available in two area ratio, four cracking pressure and seven poppet style.

Hydraulic Symbol

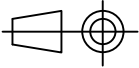


Technical Specification

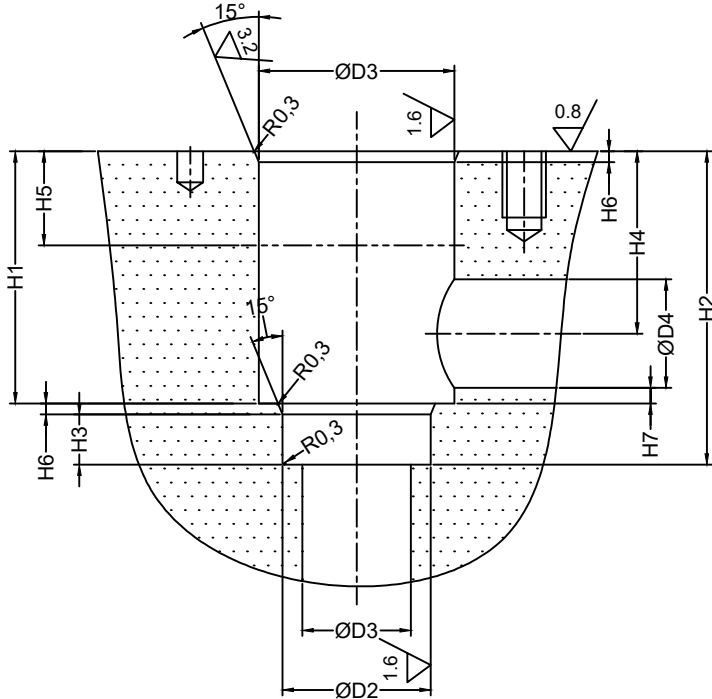
- Design : Seat type valve.
- Mounting interface : Insert in cavity conforming to ISO 7368, DIN 24342
- Mounting position : Optional
- Flow Direction : Flow from A to B, Model with (1:1) as below
CV*P*O, CV*P*C, CV*R*O and CV*R*C
Flow A to B or B to A, Model with (1:1.5) as below
CV*K*O, CV*K*C, CV*C*O and CV*C*C
- Area Ratio : 1:1 for model : CV*P*O, CV*P*C, CV*R*O and CV*R*C
1:1.5 for model : CV*K*O, CV*K*C, CV*C*O and CV*C*C
- Working Pressure : 350 bar for Port A, B, X, Z1 and Z2 .
for Y port pressure depends upon Cartridge Cover
- Flow handling capacity : Refer Graphs
- Hydraulic medium : Mineral Oil.
- Viscosity range : 10cSt to 380cSt.
- Temperature range: -20°C to +80°C
- Pilot Volume : Valve Size : **16 25 32 40**
(cm³) Volume : **1.6 3.8 8.0 16.6**
- Cracking pressure :

Spring type	Cracking Pressure (bar)				
	X	A	B	C	D
Area ratio 1:1 A to B	0	0.3	0.6	1.2	2.3
Area ratio 1:1.5 A to B	0	0.45	0.9	1.8	3.5
Area ratio 1:1.5 B to A	0	0	1.8	3.6	7.1

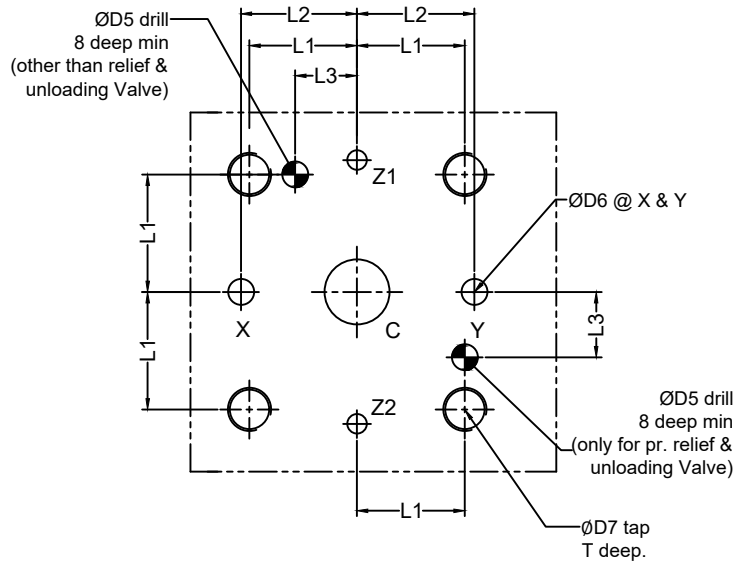
Dimensions in mm



Cavity Mounting Detail



Cover mounting interface as per ISO 7368



Size	L1	L2	L3	ØD1	ØD2	ØD3	ØD4		ØD5	ØD6	ØD7	T	H1	H2	H3	H4		H5	H6	H7	Toque Nm
							min	max								min	max				
16	23	25	10.5	32	25	16	16	25	4	4	M8	14	43	56	11	29.5	34	20	2	0.5	39
25	29	33	16	45	34	25	25	32	6	6	M12	20	58	72	12	40.5	44	30	2.5	1	135
32	35	41	17	60	45	32	32	40	6	8	M16	26	70	85	13	48	52	30	2.5	1.5	330
40	42.5	50	23	75	55	40	40	50	6	10	M20	33	87	105	15	59	64	30	3	2.5	650

Ordering Code

CV 16 P A C 10 01

Cartridge Valve
Size 16, 25, 32 and 40

Design code
10- Ring with flat face

Area Ratio and special function		
1:1	Standard function	P
	Relief valve function	R
1:1.5	Standard function	K
	Check valve function	C

Poppet construction	
0	Without cushion nose
C	With cushion nose

Spring type	Cracking Pressure (bar)				
	X	A	B	C	D
Area ratio 1:1 A to B	0	0.3	0.6	1.2	2.3
Area ratio 1:1.5 A to B	0	0.45	0.9	1.8	3.5
Area ratio 1:1.5 B to A	0	0	1.8	3.6	7.1