

KHP KHP3K Plate-type High Pressure Ball Valve

● Description

KHP3K: Plate-type three-way high-pressure hydraulic ball valve (three-position three-way, supporting L / Tee flow direction) is a standard plate-type installation, which is directly fastened to the hydraulic integrated valve block, eliminating pipeline joints and reducing leakage points. The 90-degree rotation of the handle realizes the on/off/reversing of the oil circuit, and the floating ball is self-tightly sealed, with excellent high-pressure pressure holding performance. Used for hydraulic oil circuit commutation, shunt and accumulator circuit switching.

● Features

1. Plate-type directly-mounted integrated unit, with a compact structure and simple layout.
2. Floating ball design for two-way sealing, resulting in minimal leakage when closed.
3. Full-bore design that ensures low flow resistance and minimal pressure loss.
4. 90° manual operation – easy to use, with an intuitive indication of the on/off status.
5. Forged steel valve body with high pressure resistance; carbon steel or stainless steel options available.
6. Various sealing options (NBR/FKM) suitable for media such as mineral oil and water-ethylene glycol mixtures.
7. Multiple handle options available; it is also possible to omit the handle along with the actuator.

● Technical Specifications

Nominal pressure: 31.5 MPa; short-term peak pressure: 50 MPa.

Port size range: DN06 to DN50.

Operation mode: Manual 90° rotation (two-position).

Installation: Plate-mounted (hydraulic integration unit).

Suitable media: Mineral hydraulic oil, emulsions, water-ethylene glycol mixtures, synthetic hydraulic oils.

Media temperature range: NBR: -25°C to 100°C; FKM: -20°C to 120°C.

Recommended oil cleanliness level: ISO 4406: 18/16/13.

Sealing mechanism: Floating ball self-sealing.

● Application Scenarios

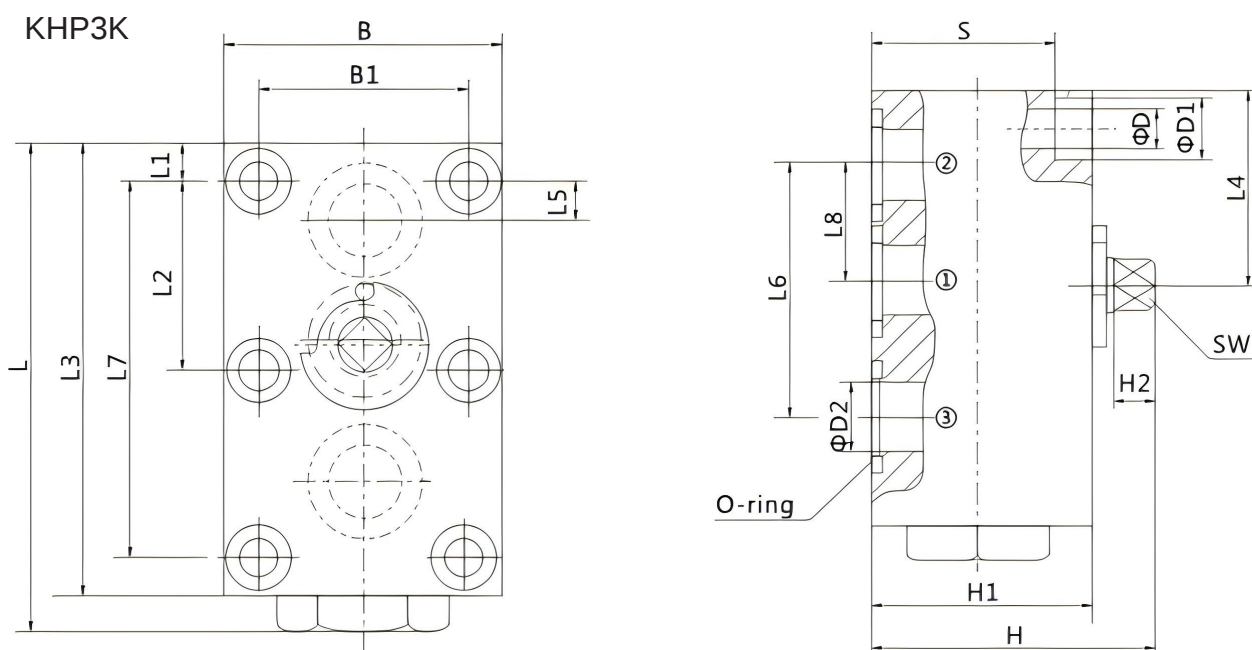
Hydraulic stations, CNC machine tools, construction machinery, injection molding machines, metallurgical equipment, and accumulator systems. Used for controlling the direction of oil flow, switching between pressure retention modes, and managing pressure release circuits.



● Order Selection Table

	KHP3K	10	L	1	1	1	2	04	A
High Pressure Ball Valve									
KHP3K = Plate-type Three-way high-pressure ball valve DN06 -50									
Nominal Diameter									
06、10、16、20、25、32、40、50									
Ball Port Options									
L = L Type 90° flow direction T = T Type 180° flow direction									
Valve Body & Connector Material									
1 = Carbon steel 4 = Stainless steel									
Ball Body & Spindle Material									
1 = Carbon steel 4 = Stainless steel									
Ball Body Sealing Material									
1 = POM									
Connector Seal & Spindle Seal									
2 = NBR 4 = PIFE 6 = FKM									
Handle Type									
01 = Aluminum alloy crank handle 02 = Aluminum alloy straight handle 03 = Zinc alloy crank handle 04 = Zinc alloy straight handle 05 = Steel crank handle 06 = Steel straight handle									
Finish Treatment									
A = Plated Zinc ZN = Customized									

● Overall Dimensions



Model	L	L1	L2	L3	L4	L5	L6	L7	L8	B
KHP3K-06	64	8.5	17.5	59	25	0	35	35	17.5	40
KHP3K-10	80	8	27.5	71	29.5	2.5	44	55	19	56
KHP3K-16	110	8.5	41.5	100	43.5	8.5	58	83	26.5	62
KHP3K-20	127	10	48.5	117	51	10	69	97	32	70
KHP3K-25	145	10	57.5	135	62	14	81	115	38	80
KHP3K-32	177	12	68	165	75	17	96	136	46	100
KHP3K-40	192	28.5	56	180	85.5	0	112	112	56	130
KHP3K-50	245	38	68	220	106	0	136	136	68	149

Model	B1	H	H1	H2	D	D1	D2	S	SW	O-Ring
KHP3K-06	27	39	30	6	6.6	11	6	23	9	12x1.9
KHP3K-10	40	54.5	42	8	9	13.5	9.5	33	9	16x2.4
KHP3K-16	45	67.5	50	11	9	13.5	16	41	12	25x2.4
KHP3K-20	51	80	62	12	10.5	16.5	20	51	12	30x3.1
KHP3K-25	60	85	67	12	10.5	16.5	25	56	12	35x3.1
KHP3K-32	78	110	90	14	13	19	32	77	17	40x3.1
KHP3K-40	95	120	100	14	17.5	26	38	82	17	50x3.1
KHP3K-50	112	130	110	14	22	33	48	88	17	56x3.5