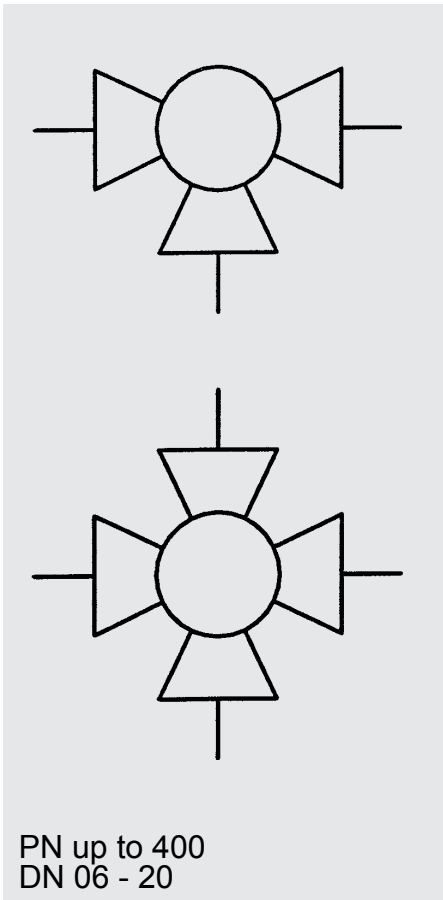




3-Way and 4-Way Manifold Mounted Ball Valves

KH3P / KH4P



PN up to 400
DN 06 - 20

Model code
(also order example)

KH3P 16 L 1114 02 X ...

Designation

KH3P = 3-way manifold mounted ball valves
KH4P = 4-way manifold mounted ball valves

Nominal bore

Ball bore

L, T, X
(according to table on next page)

Materials

Housing, blanking plug, locking screw

- 1 = Steel
- 3 = Stainless steel

Ball spindle

- 1 = Steel
- 3 = Stainless steel

Ball seal

- 1 = POM (polyacetal)

Soft seal

- 4 = FKM (Viton)

(other materials on request)

Handle

- 09 = Without handle
- 02 = Aluminium clamped handle, cranked

Series

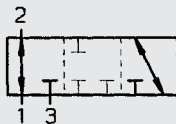

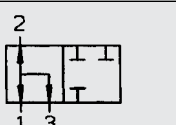
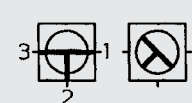
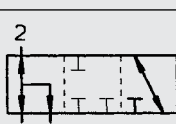

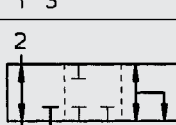

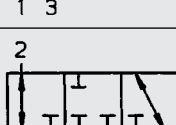

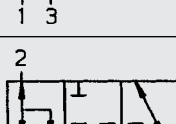
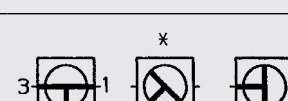
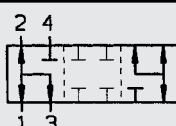

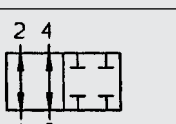
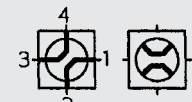
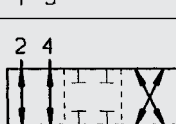

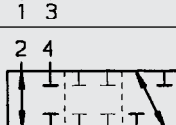
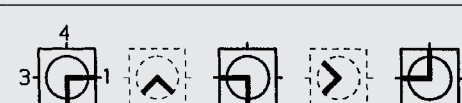
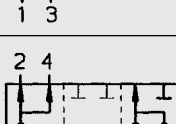

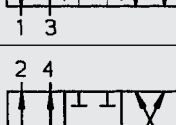
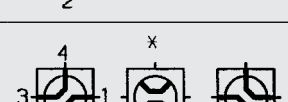


(determined by manufacturer)

Special model

SO ... = Special model according to customer specifications
180 Grad = 180° switch

(Please see examples on the next page)

Standard models

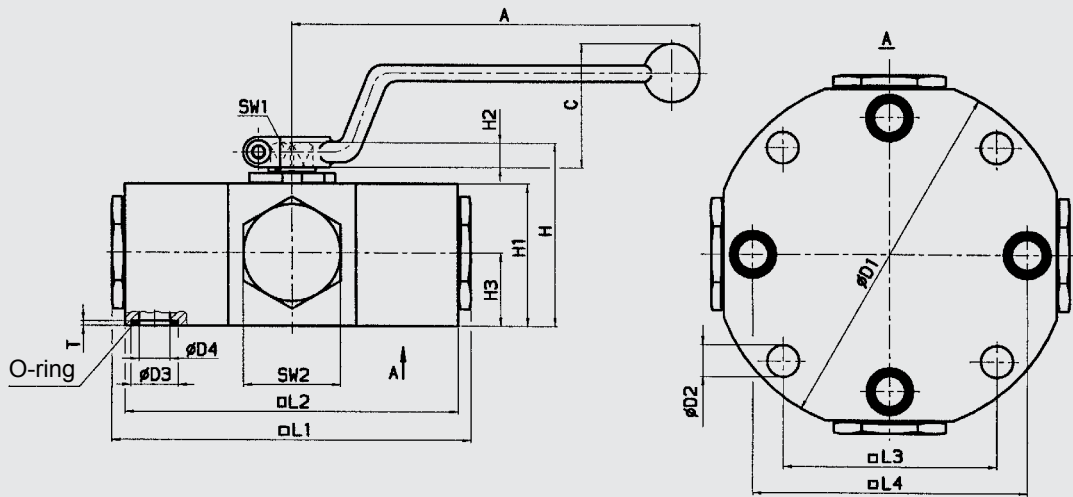
	Ball bore	Switch movement	Function diagram	SO ... Model	
KH3P	L	0° - 90°			-
	T	0° - 45°			45 Grad
	T	0° - 90°			-
	T	0° - 90° - 180°			180 Grad
	L	0° - 45° - 90°			SO 378
	T	0° - 45° - 90°			SO 379
KH4P	T	0° - 90°			-
	X	0° - 45°			45 Grad
	X	0° - 90°			-
	L	0° - 90° - 180°			180 Grad
	T	0° - 90° - 180°			180 Grad
	X	0° - 45° - 90°			SO 385
	T	0° - 45° - 90°			SO 389

* - detent position at 45°

--- undefined switching position

Other models or special ball bores on request

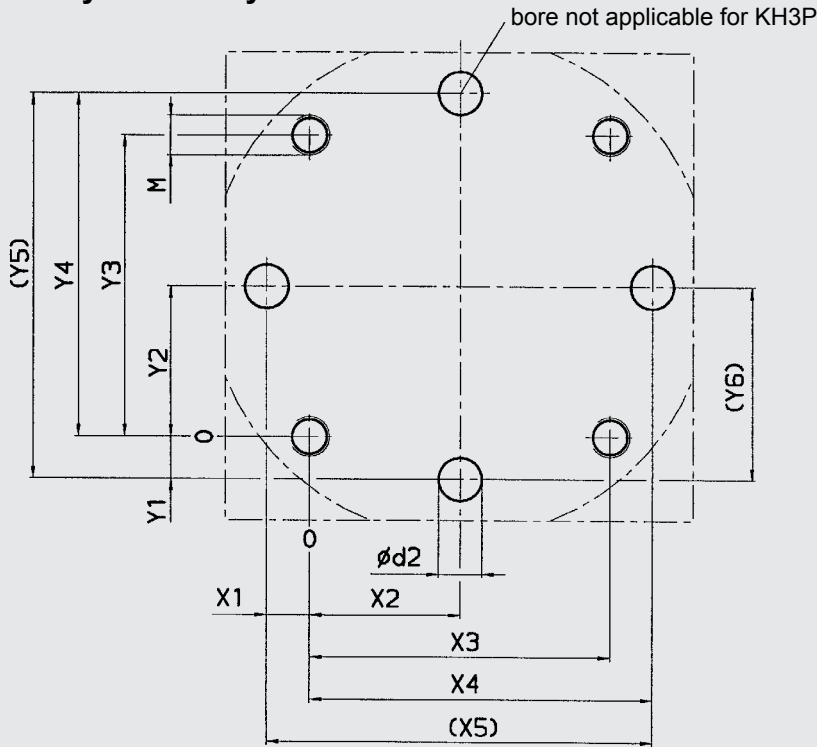
3-way and 4-way manifold mounted ball valve with cranked aluminium handle



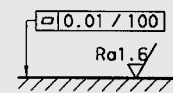
DN	Int. diam.			L1	L2	L3	L4	H	H1	H2	H3	D1	D2	D3	D4	SW 1	SW 2	T
	L	T	X															
06	5	5	4.5	103	90	70	68.6	57	40	11	22	--	6.5	11.7	6	12	27	1.9
10	9	9	6	113	100	80	81	67.5	50	11.5	27	--	9	14.7	8	14	30	1.9
16	12	12	10	152.5	140	90	115.4	77.5	60	11.5	31.5	150	13.5	19.7	13	14	41	2
20	18	18	14	184	170	100	137	92	73	11.5	36	180	13.5	28.8	18	17	46	2

DN	A	C	O-ring	Weight (kg)	Pressure range PN [bar]
06	163	52	7.3 x 2.4	2.5	400
10	183	54	10.3 x 2.4	3.7	315
16	183	54	15 x 2.5	7.5	315
20	227	55	24 x 2.5	13.1	250

Interface for 3-way and 4-way manifold mounted ball valve



Required surface finish on interface area



Dimensional tolerances ISO 2768 m

DN	Y1	Y2	Y3	Y4	Y5	Y6	X1	X2	X3	X4	X5	d2	M	Int. hex. screw ISO 4762 (property class)	Torque value MA [Nm]*
06	0.7	35	70	69.3	68.6	34.3	0.7	35	70	69.3	68.6	6	M 6	M 6 - 12.9	10
10	-0.5	40	80	80.3	81.0	40.5	-0.5	40	80	80.5	81.0	8	M 8	M 8 - 12.9	20
16	-12.7	45	90	102.7	115.4	57.7	-12.7	45	90	102.7	115.4	13	M 12	M 12 - 12.9	65
20	-18.5	50	100	118.5	137.0	68.5	-18.5	50	100	118.5	137.0	18	M 12	M 12 - 12.9	70

* Standard values for friction coefficient μ 0.14

Technical specifications

Mounting position:	optional
Ambient temperature:	-10 °C to +80 °C
Nominal pressure:	up to PN 400 (see pressure range)
Operating fluids:	mineral oil to DIN 51524 part 1 and part 2 (other fluids on request)
Temperature of operating fluid:	-10 °C to +80 °C
Spare parts:	Seal kits available on request
Accessories:	All ball valves can be supplied with the following options: Actuator Limit switch Lock

NOTE

The information in this brochure relates to the operating conditions and applications described.

For applications and operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

HYDAC Accessories GmbH

Hirschbachstr. 2

66280 Sulzbach/Saar

Tel.: +49 (0)6897 - 509-01

Fax: +49 (0)6897 - 509-1009

Internet: www.hydac.com

E-Mail: info@hydac.com