HIGH PRESSURE BALL VALVES KH3 & KH4 Series

Multiway Ball Valves



Note: Valves use a trunion design, rather than the "floating ball" design used on all other ball valves.

Specifications

- Sizes 1/4" to 3/4"
- 2 Positions, 90° Switching Standard
- Carbon Steel Housing
- L and T Ball Drilling: KH3
- L, T and X Ball Drilling: KH4
- NPT or SAE O-Ring Connections
- Ball Seals: Polyacetal (standard)
- O-Rings: Fluoroelastomer (FPM) (standard)
- Operating Pressure: to 7250 psi depending on valve size
 and seal materials selected
- Temperature Range: 14° to 176°F with standard materials (1114) up to maximum pressure rating. Extended temperature range -40° to 392°F on request with special materials and reduced pressure rating (see page A1-3).

Model Code

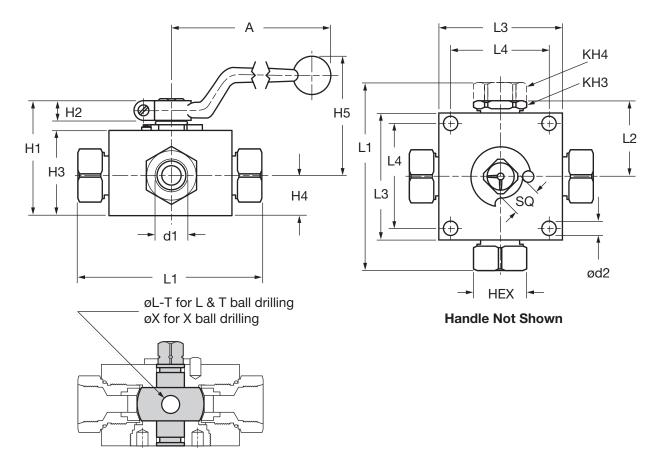
		<u>КНЗ - 12 NPT - Ļ - 1 1 1 4 - 12Х - А - Ļ</u>
Housing KH3 KH4	g Type = Three-Way = Four-Way	
Nominal	I Sizes SAE NPT	
Nom Size	Tube Thread Pipe Size Pipe OD	
06	-4 7/16-20 UNF 1/4" 0.540"	
10	-6 9/16-18 UNF 3/8" 0.675"	
12	-8 3/4-16 UNF 1/2" 0.840"	
20	-12 1-1/16-12 UN 3/4" 1.050"	
	tion Type —	
NPT	= ANSI/ASME 1.20.1 Taper Pipe Thread	
SAE	= SAEJ1926 Ports with ISO 725 Threads and O-Ring Sea	ling
Ball Drill	ling	
L	= standard for KH3	
т	= (optional)	
Х	= standard for KH4	
Bodv Ma	aterial —	
1	= Carbon Steel	
Spindle a	and Ball Material	
.1	= Carbon Steel (ball is chrome plated, spindle is zinc plated)	
3	= Stainless Steel	
Ball Seal	Il Material —————————————————————	
1	= Polyacetal (standard)	
3	= PTFE (1500 psi max)	
O-Ring	Material	
2	= NBR (Buna N)	
4	= FPM (Fluoroelastomer) (standard)	
Handle C	Codes	
09x	 Without Handle 	
12x	= Offset Aluminum (standard)	
Housing	g Surface Finish —————————————————	
A	= Zinc plated (standard for all carbon steel valves)	
Locking	Device Option	

= Locking Device (see page A1-22 to order locking device separately)

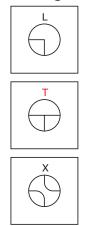
L

HIGH PRESSURE BALL VALVES

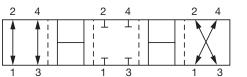
Dimensions



Ball Drilling



4-Way Ball Valve X-Bore



Notes: These are positive overlap valves. At approximately 45° rotation, flow will be blocked to all ports. For "T" function diagram, contact HYDAC.

90° Switch





90° Switch



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Model	d1	Max. psi*	A	L1	L2	L3	L4	H1	H2	НЗ	H4	H5	ød2	sQ	HEX	øL-T	øΧ	Wt.
KH06SAE	7/16"-20 UNF 1/4" NPT	7250	6.42	3.94	1.67	2.76	2.17	2.28	0.51	1.57	0.87	2.48	0.26	0.47	0.95	0.20	0.18	3.5
KH06NPT			(163)	(100)	(42.5)	(70)	(55)	(58)	(13)	(40)	(22)	(63)	(6.5)	(12)	(24)	(5)	(4.5)	(1.6)
KH10SAE	9/16"-18 UNF 3/8" NPT	7250	7.20	4.53	1.81	3.15	2.56	2.72	0.55	1.97	1.06	2.95	0.26	0.55	1.18	0.35	0.24	5.3
KH10NPT		1230	(183)	(115)	(46)	(80)	(65)	(69)	(14)	(50)	(27)	(75)	(6.5)	(14)	(30)	(9)	(6)	(2.4)
KH12SAE	3/4"-16 UNF 1/2" NPT	5800	7.20	5.32	2.20	3.94	3.15	3.11	0.55	2.36	1.22	3.46	0.35	0.55	1.42	0.47	0.39	9.5
KH12NPT		5800	(183)	(135)	(56)	(100)	(80)	(79)	(14)	(60)	(31)	(88)	(9)	(14)	(36)	(12)	(10)	(4.3)
KH20SAE	1 1/16"-12 UN	4500	8.94	5.67	2.26	3.94	3.35	3.68	0.61	2.87	1.42	3.82	0.35	0.67	1.81	0.71	0.55	13.2
KH20NPT	3/4" NPT		(227)	(144)	(57.5)	(100)	(85)	(93.5)	(15.5)	(73)	(36)	(97)	(9)	(17)	(46)	(18)	(14)	(6.0)
Dependent upon valve and seal materials selected.																		

Notes:

1. Dimensions are in inches (mm) and lbs (kg)

2. Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.