

Siken Ball Valve

Siken Hydraulics provides accumulator ball valves used for many applications. A ball valve is a type of valve that uses a ball-shaped disc to control the flow of fluid. The ball inside the valve has a hole or passage through its center, which allows or blocks the flow of the fluid when the valve is rotated. When the ball is positioned with the hole aligned with the flow direction, the valve is open, and fluid can pass through. When the ball is rotated to a position where the hole is perpendicular to the flow direction, the valve is closed, and fluid flow is blocked. Ball valves are commonly used in various industries for their reliable sealing, durability, and ease of operation.

Siken Hydraulics provides ball valves with either thread or flange connections. Siken Hydraulics provides 5 series of ball valves, which are as follows,

- (A) **KHB/KHM type ball valve (Thread connection)**
- (B) **KHB-F3/6, KHM-F3/6 type ball valve with SAE flange**
- (C) **KHBG, KHMG ball valve with threaded flange**
- (D) **BKH-SAE, MKH-SAE flange ball valve (with mating flange)**
- (E) **BKH-SAE-FS, MKH-SAE-FS flange ball valve (with SAE fitting)**

(A) KHB/KHM type ball valve (Thread connection)

1. Model

KHB **G1/2** - **1** **1** **1** **2** - **06** - *****
(1) **(2)** **(3)** **(4)** **(5)** **(6)** **(7)** **(8)**

(1) Product Code:

*KHB- Ball valve body DN04-25/40 KHM-Sleeve type ball valve
 DN32-50*

(2) Connection Code: M**, G**, LR, SR, PT, NPT (e.g., M**, G**, etc.)

(3) Valve body and adapter body material:

1-Carbon steel, 4-Stainless steel

(4) Ball and control spindle material:

1-Carbon steel, 4-Stainless steel

(5) Ball sealing material:

1-POM (Polyoxymethylene), 4-PTFE (Polytetrafluoroethylene)

(6) Adapter sealing and control spindle sealing material:

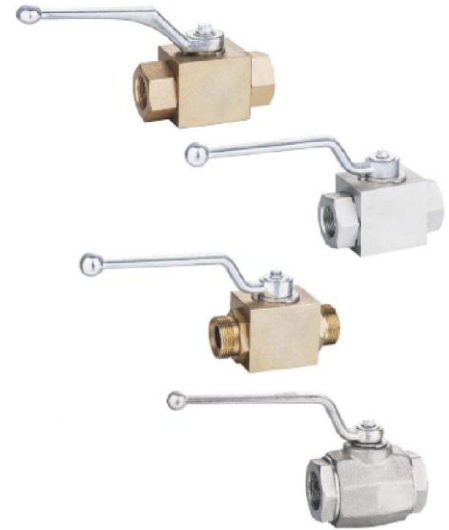
2-NBR (Nitrile butadiene rubber), 4-FPM (Fluorocarbon rubber)

(7) Handle type:

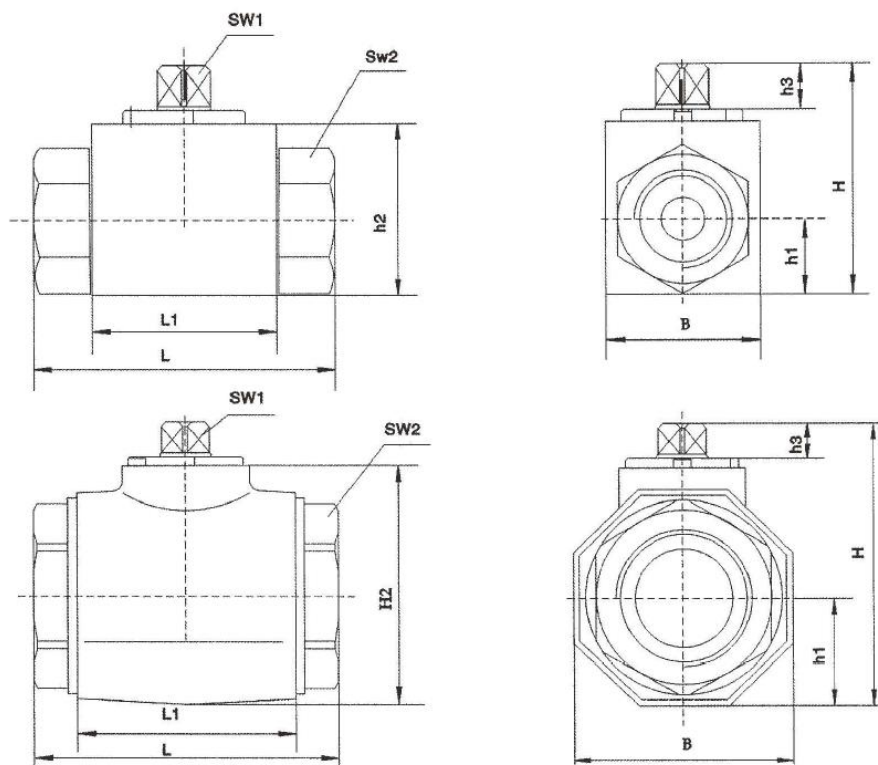
01-Cast steel clamp type straight handle, 02-Cast steel clamp type curved handle,

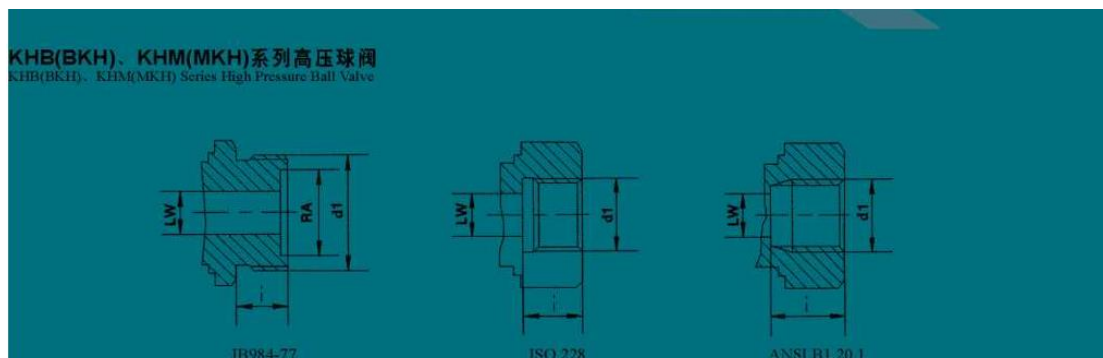
06-Cast steel with installation bolt curved handle

(8) Surface treatment: No phosphating, please specify any other requirements



2. Dimension





JB984-77 METRIC SCREW THREAD MALE THREAD

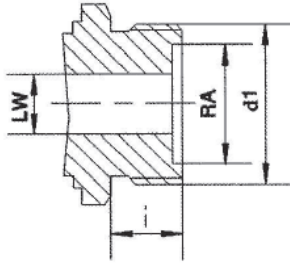
Model	DM	PN	LW	RA	d1	i	L	LI	B	H	h1	h2	h3	SW1	SW2
KHB-M12X1.25	4	500	4	8	M12X1.25	9	61	37	28	44.5	13	32	8	9	22
KHB-M16X1.5	6	500	6	11	M16X1.5	11	69	37	28	44.5	13	32	8	9	22
KHB-M22X1.5	8	500	8	16	M22X1.5	12	76	42	32	52.5	17	40	8	9	27
KHB-M27X1.5	10	500	10	20	M27X1.5	12	76	42	32	52.5	17	40	8	9	30
KHB-M30X1.5	16	400	15	24	M30X1.5	13	84	47	38	63.5	19	46	11	12	32
KHB-M36X2	20	315	20	30	M36X2	15	103	60	48	75	24	57	12	14	41
KHB-M42X2	25	315	25	35	M42X2	18	116	65	57	82	28.5	64	12	14	50
KHM-M52X2	32	315	30	40	M52X2	20	149	84	75	108	41	87.5	14	17	60
KHM-M60X2	40	315	38	50	M60X2	22	174	91	85	120	46.5	99	14	17	70
KHM-M72X2	50	315	48	60	M72X2	24	178	100	105	136	55	115	14	17	80

ISO 228 Female thread

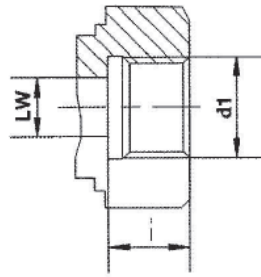
Model	DN	PN	LW	d1	i	L	LI	B	H	h1	h2	h3	SW1
KHB-G1/8	4	500	6	G1/8	10	69	37	28	44.5	13	32	8	9
KHB-G1/4	6	500	6	G1/4	14	69	37	28	44.5	13	32	8	9
KHB-G3/8	10	500	10	G3/8	14	72	42	32	52.5	17	40	8	9
KHB-G1/2	13	500	13	G1/2	16	83	48	35	52.5	17	40	8	9
KHB-G1/2	16	400	15	G1/2	16	83	47	38	63.5	19	45	11	12
KHB-G3/4	20	315	20	G3/4	18	95	60	48	75	24	57	12	14
KHB-G1	25	315	25	G1	20.5	113	65	57	82	28.5	64	12	14
KHB-G1V4	25/32	315	25	GPM	22	120	65	60	82	28.5	64	12	14
KHB-G1V2	25/40	315	25	G1V2	24	130	65	60	82	28.5	64	12	14
KHM-G1V4	32	315	30	GPM	22	110	84	75	108	41	87.5	14	17
KHM-G1V2	40	315	38	G1V2	24	130	91	85	119.5	46.5	99	14	17
KHM-G2	50	315	48	G2	26	140	100	105	135.5	55	115	14	17

ANSI B1.20 . INPT Female thread

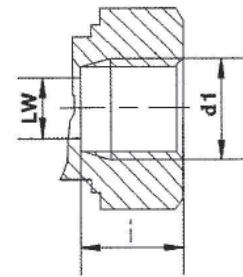
Model	DN	PN	LW	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
KHB-1/8NPT	4	500	6	1/8NPT	10.5	69	37	28	44.5	13	32	8	9	22
KHB-1/4NPT	6	500	6	1/4NPT	14	69	37	28	44.5	13	32	8	9	22
KHB-3/8NPT	10	500	10	3/8NPT	14	72	42	32	52.5	17	40	8	9	27
KHB-1/2NPT	13	500	13	1/2NPT	17	83	48	35	52.5	17	40	8	9	30
KHB-3/4NPT	20	315	20	3/4NPT	19	95	60	48	75	24	57	12	14	41
KHB-1NPT	25	315	25	1NPT	22.5	113	65	57	82	28.5	64	12	14	50
KHB-1V4NPT	25/32	315	25	1V4NPT	22.5	120	65	60	82	28.5	64	12	14	55
KHB-1V2NPT	25/40	315	25	1V2NPT	25	130	65	60	82	28.5	64	12	14	60
KHM-1V4NPT	32	315	30	1V4NPT	25	120	84	75	108	41	87.5	14	17	60
KHM-1V2NPT	40	315	38	1V2NPT	25	130	91	85	119.5	46.5	99	14	17	70
KHM-2NPT	50	315	48	2NPT	30	140	100	105	135.5	55	115	14	17	80



SAE J 514



DIN 2353 LR



DIN 2353 SR

SAEJ514 UN/UNF Female thread

Model	DN	PN	LW	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
KHB-SAE4	6	500	6	SAE4	12	69	37	28	44.5	13	32	8	9	22
KHB-SAE6	10	500	10	SAE6	13	72	42	32	52.5	17	40	8	9	27
KHB-SAE8	13	500	13	SAE8	15	83	48	35	52.5	17	40	8	9	30
KHB-SAE12	20	315	20	SAE12	20	95	60	48	75	24	57	12	14	41
KHB-SAE16	25	315	25	SAE16	20	113	65	57	82	28.5	64	12	14	50
KHB-SAE20	25/32	315	25	SAE20	20	120	65	60	82	28.5	64	12	14	55
KHB-SAE24	25/40	315	25	SAE24	20	130	65	60	82	28.5	64	12	14	60
KHM-SAE20	32	315	30	SAE20	20	120	84	75	108	41	87.5	14	17	60
KHM-SAE24	40	315	38	SAE24	20	130	91	85	119.5	46.5	99	14	17	70
KHM-SAE32	50	315	48	SAE32	20	140	100	105	135.5	55	115	14	17	80

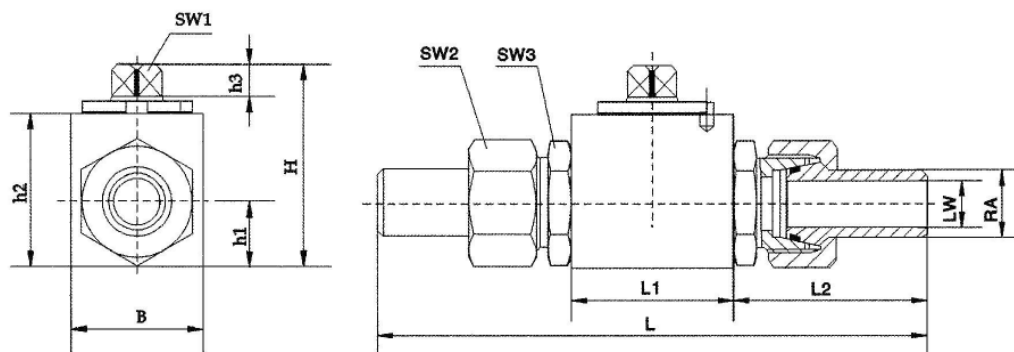
DIN 2353 Light series

Model	DN	PN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
KHB-06LR	4	500	4	6	M12X1.5	10	67	37	28	44.5	13	32	8	9	22
KHB-08LR	6	500	6	8	MUX 1.5	10	67	37	28	44.5	13	32	8	9	22
KHB-10LR	8	500	8	10	M16X1.5	11	74	42	32	52.5	17	40	8	9	27
KHB-12LR	10	500	10	12	M18X1.5	11	74	42	32	52.5	17	40	8	9	27
KHB-15LR	13	500	13	15	M22X1.5	12	82	48	35	52.5	17	40	8	9	30
KHB-15LR	13	400	13	15	M22X1.5	12	82	47	38	63.5	19	46	11	12	32
KHB-18LR	13	500	13	18	M26X1.5	12	82	48	35	52.5	17	40	8	9	30
KHB-18LR	16	400	15	18	M26X1.5	12	82	47	38	63.5	19	46	11	12	32
KHB-22LR	20	315	19	22	M30X2	14	101	60	48	75	24	57	12	14	41
KHB-28LR	25	315	25	28	M36X2	14	108	65	57	82	28.5	64	12	14	50
KHB-35LR	25/32	315	25	35	M45X2	16	112	65	60	82	28.5	64	12	14	50
KHM-35LR	32	315	30	35	M45X2	16	141	84	75	108	41	87.5	14	17	60
KHM-42LR	40	315	38	42	M52X2	16	162	91	85	120	46.5	99	14	17	70

DIN 2353 Heavy series

Model	DN	PN	LW	RA	d1	i	L	L1	B	H	h1	h2	h3	SW1	SW2
KHB-08SR	4	500	5	8	M16X1.5	12	73	37	28	44.5	13	32	8	9	22
KHB-10SR	6	500	6	10	M18X1.5	12	73	37	28	44.5	13	32	8	9	22
KHB-12SR	8	500	8	12	M20X1.5	12	76	42	32	52.5	17	40	8	9	27
KHB-14SR	10	500	10	14	M22X1.5	14	80	42	32	52.5	17	40	8	9	27
KHB-16SR	13	500	13	16	M24X1.5	14	86	48	35	52.5	17	40	8	9	30
KHB-16SR	13	400	13	16	M24X1.5	14	86	47	38	63.5	19	46	11	12	32
KHB-20SR	13	500	13	20	M30X2	16	90	48	35	52.5	17	40	8	9	32
KHB-20SR	16	400	15	20	M30X2	16	90	47	38	63.5	19	46	11	12	32
KHB-25SR	20	315	20	25	M36X2	18	109	60	48	75	24	57	12	14	41
KHB-30SR	25	315	25	30	M42X2	20	120	65	57	82	28.5	64	12	14	50
KHB-38SR	25/32	315	25	38	M52X2	22	124	65	60	82	28.5	64	12	14	55
KHM-38SR	32	315	30	38	M52X2	22	153	84	75	108	41	87.5	14	17	60

Cone seal welding



Model	DN	LW	RA	L	L1	L2	B	H	h1	112	h3	SW1	SW2	SW3
KHB-14MZ	8	8	14	143	42	50.5	32	52.5	17	40	8	9	27	27
KHB-16MZ	10	10	16	145	42	51.5	32	52.5	17	40	8	9	32	30
KHB-20MZ	15	13	20	156	47	54.5	38	63.5	19	46	11	12	36	32
KHB-25MZ	20	18	25	190	60	65	48	75	24	57	12	14	41	41
KHB-30MZ	25	20	30	204	65	69.5	57	82	28.5	64	12	14	50	50

The highest pressure for a bove tupe is 315 bar

(B) KHB-F3/6,KHM-F3/6 type ball valve with SAE flange

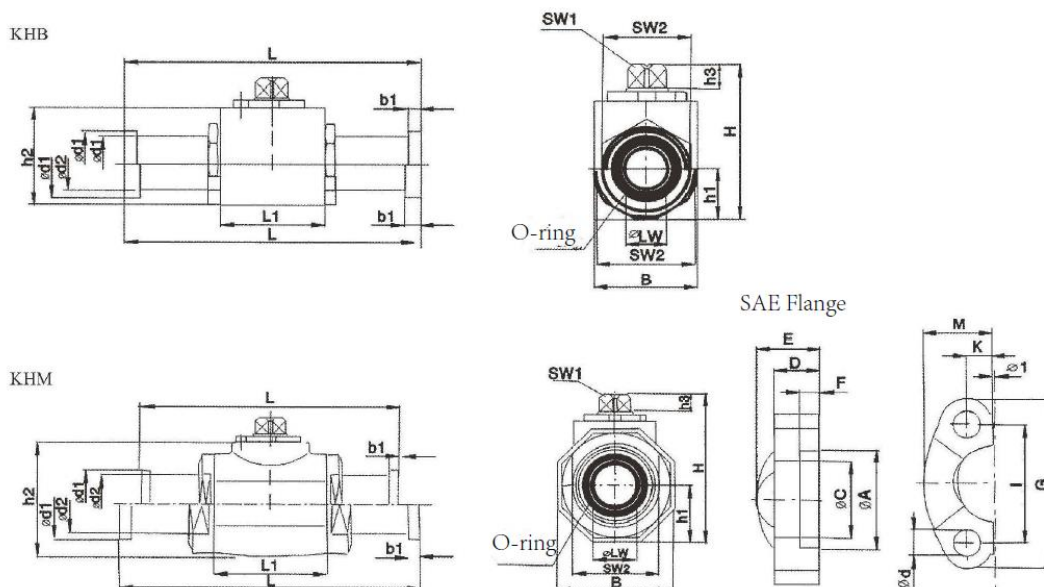
1.Model

KHB **20** - **F3** - **1** **1** **1** **2** **1** - **02**
 (1) (2) (3) (4) (5) (6) (7) (8) (9)

- (1) Product Code: KHB-Square body ball valve. DN16-25
 KHM-Sleeve body ball valve. DN32-50
- (2) Nominal diameter: 16, 20,... 50mm.
- (3) Flange code: F3 - Conforms to SAE J518C 3000 psi (21 MPa)
 F6 - Conforms to SAE J518C 6000 psi (42 MPa)
- (4) Valve body and adapter body material: 1-Carbon steel.
- (5) Ball and control spindle material: 1-Carbon steel.
- (6) Ball sealing bowl material: 1-POM (Polyoxymethylene).
- (7) Control spindle and adapter body sealing material:
 2-Nitrile rubber (NBR); 4-Fluororubber (FPM).
- (8) SAE flange material: 1 - Steel.
- (9) Handle type: 01 - Zinc alloy clamp handle, straight handle.
 02 - Steel clamp handle, curved handle.
 06 - Steel handle with safety bolt, curved handle.



2. Dimensions



KHB/KHM-F3

Model	SAE SIZE	DN	LW	L	L1	H	h1	h2	h3	B	b1	d1	d2	SW1	SW2	O-ring
KHB-16-F3	1/2"	16	13	151	47	62	20	46	11	38	6.8	30.2	24	12	32	18.66x3.53
KHB-16/20F3	3/4"	16	16	170	47	62	20	46	11	38	6.8	38.1	31.5	12	32	25x3.53
KHB-20-F3	3/4"	20	19	170	60	75	24.5	57	11.6	48	6.8	38.1	31.5	14	41	25x3.53
KHB-25-F3	1"	25	25	176.5	65	82	28.5	64	11.6	57	8	44.45	38	14	50	32.92x3.53
KHM-32-F3	1 1/4"	32	30	191.4	83.4	105.2	40	86.7	12	80	8	50.8	43	17	60	37.7x3.53
KHM-40-F3	1 1/2"	40	38	231	91	116.2	45	97.7	12	90	8	60.35	50	17	70	47.22x3.53
KHM-50-F3	2"	50	48	234	100	134.2	55.5	115.7	12	111	9.6	71.4	62	17	80	56.74x3.53

KHB/KHM-F3-XL

Model	SAE SIZE	DN	LW	L	L1	H	h1	h2	h3	B	b1	d1	d2	SW1	SW2	O-ring
KHM-32-F3-XL	1 1/4"	32	30	274	83.4	105.2	40	86.7	12	80	8	50.8	43	17	60	37.7x3.53
KHM-40-F3-XL	1 1/2"	40	38	320	91	116.2	45	97.7	12	90	8	60.35	50	17	70	47.22x3.53
KHM-50-F3-XL	2"	50	48	323	100	134.2	55.5	115.7	12	111	9.6	71.4	62	17	80	56.74x3.53

SAEBi-flange- F3

Model	A	C	D	E	F	M	K	I	G	d	Pressure(Bar)	Wreight(kg)
KHB-16-F3	31	24.5	13	19	6.2	23	9	38.1	54	8.8	350	1.6
KHB-16/20-F3	38.9	32.1	14	22	6.2	26	11.1	47.6	65	10.5	350	1.6
KHB-20-F3	38.9	32.1	14	22	6.2	26	11.1	47.6	65	10.5	350	2.1
KHB-25-F3	45.2	38.5	16	22	7.5	29.2	13.1	52.4	70	10.5	350	2.8
KHM-32-F3	51.6	43.7	14	22	7.5	36.3	15.1	58.7	80	12	275	4.7
KHM-40-F3	61.1	50.8	16	24	7.5	41.1	17.9	69.9	94	13.5	210	6.9
KHM-50-F3	72.2	62.7	16	26	9	48.2	21.4	77.8	102	13.5	210	9.7

KHB/KHM - F6

Model	SAE SIZE	DN	LW	L	L1	H	h1	h2	h3	B	b1	d1	d2	SW1	SW2	O-ring
KHB-16-F6	1/2"	16	13	151	47	62	20	46	11	38	7.8	31.8	24	12	32	18.66x3.53
KHB-16*0*6	3/4"	16	16	170	47	62	20	46	11	38	8.8	41.3	32	12	32	25x3.53
KHB-20-F6	3/4"	20	19	170	60	75	24.5	57	11.6	48	8.8	41.3	32	14	46	25x3.53
KHB-25-F6	1"	25	25	198.5	65	82	28.5	64	11.6	57	9.5	47.6	38	14	50	32.92x3.53
KHM-32-F6	1 1/4"	32	30	223.4	83.4	105.2	40	86.7	12	80	10.3	54	44	17	60	37.7x3.53
KHM-40-F6	1 1/2"	40	38	281	91	116.2	45	97.7	12	90	12.6	63.5	51	17	70	47.22x3.53
KHM-50-F6	2"	50	48	315	100	134.2	55.5	115.7	12	111	12.6	79.4	67	17	80	56.74x3.53

KHB/KHM-F6-XL

Model	SAE SIZE	DN	LW	L	L1	H	h1	h2	h3	B	b1	d1	d2	SW1	SW2	O-ring
KHB-16-F6	1/2"	16	13	151	47	62	20	46	11	38	7.8	31.8	24	12	32	18.66x3.53
KHB-16*0*6	3/4"	16	16	170	47	62	20	46	11	38	8.8	41.3	32	12	32	25x3.53
KHB-20-F6	3/4"	20	19	170	60	75	24.5	57	11.6	48	8.8	41.3	32	14	46	25x3.53
KHB-25-F6	1"	25	25	198.5	65	82	28.5	64	11.6	57	9.5	47.6	38	14	50	32.92x3.53
KHM-32-F6	1 1/4"	32	30	223.4	83.4	105.2	40	86.7	12	80	10.3	54	44	17	60	37.7x3.53
KHM-40-F6	1 1/2"	40	38	281	91	116.2	45	97.7	12	90	12.6	63.5	51	17	70	47.22x3.53
KHM-50-F6	2"	50	48	315	100	134.2	55.5	115.7	12	111	12.6	79.4	67	17	80	56.74x3.53

SAEBi-flange- F6

Model	A	C	D	E	F	M	K	I	G	d	Pressure(Bar)	Wreight(kg)
KHB-16-F6	32.5	24.6	16	22	7.2	23.6	9	40.5	56	8.8	420	1.9
KHB-16/20-F6	42	32.5	19	28	8.3	30	11.9	50.8	72	10.5	420	1.9
KHB-20-F6	42	32.5	19	28	8.3	30	11.9	50.8	72	10.5	420	2.5
KHB-25-F6	48.4	38.9	24	32	9	35	13.9	57.2	81	13	420	3.5
KHM-32-F6	54.8	44.5	27	38	9.8	39	15.9	66.7	96	15	420	6.4
KHM-40-F6	64.3	51.6	30	42	12.1	48	18.3	79.4	113	17	420	9.7
KHM-50-F6	80.2	67.6	37	52	12.1	57	22.2	96.8	134	21	420	14.7

(C) KHBG,KHMG ball valve with threaded flange

1. Model

KHB **G** **20** **F3** **1** **1** **1** **2** **1** **02**
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

(1) Product Code: *KHB - Square body ball valve. DN16-25*

KHM - Sleeve body ball valve. DN32-50

(2) Adapter body, flange type: *G - Threaded flange*

(3) Nominal diameter: *16, 20, 25, 32, 40, 50mm*

(4) Flange code: *F3 - Conforms to ASE J518C 3000 psi (21MPa)*

F6 - Conforms to ASE J518C 6000 psi (42MPa)

(5) Valve body and adapter body material: *1 - Carbon steel*

(6) Ball and control spindle material: *1- Alloy steel*

(7) Ball sealing bowl material: *1 - POM (Polyoxymethylene)*

(8) Control spindle and adapter body sealing material:

2 - Nitrile rubber (NBR) 4 - Fluororubber (FPM)

(9) SAE threaded flange material: *1 - Carbon steel*

(10) Handle type: *02 - Steel clamp handle, curved handle*

06 - Steel fixed bolt handle, curved handle

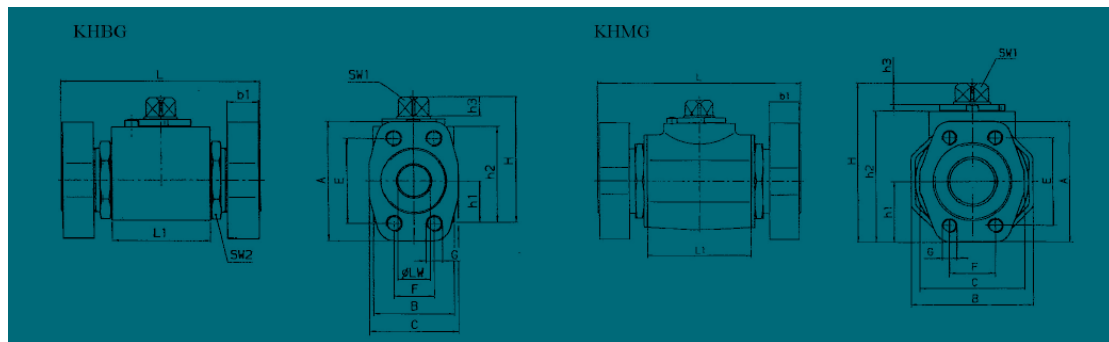


2. Standard model

Commection SAE-F3/F6	SAE size	Model	DN	Pressure(bar)	Weight/kg
Threaded flange connection SAE-F3	1/2 "	KHBG-16-F3-11121-02	16	350	1.1
	3/4 "	KHBG-20-F3-11121-02	20	350	1.9
	1 "	KHBG-25-F3-11121-02	25	350	2.4
	1 1/4 "	KHMG-32-F3-11121-02	32	275	3.8
	1 1/2 "	KHMG-40-F3-11121-02	40	210	4.5
	2 "	KHMG-50-F3-11121-02	50	210	6.5
Threaded flange connection SAE-F6	1/2 "	KHBG-16-F6-11121-02	16	400	1.2
	3/4 "	KHBG-20-F6-11121-02	20	350	2
	1 "	KHBG-25-F6-11121-02	25	350	2.6
	1 1/4 "	KHMG-32-F6-11121-02	32	350	4
	1 1/2 "	KHMG-40-F6-11121-02	40	350	4.7
	2 "	KHMG-50-F6-11121-02	50	350	7.2

3.Model description

KHBG



KHBG-F3/KHMg-F3

Model	SAE SIZE	DM	LW	L	LI	H	h1	h2	h3	B	SW1	SW2
KHBG-16-F3	1/2 "	16	13	104	47	62	19	45	11	38	12	32
KHBG-20-F3	3/4 "	20	18	121	60	75	24.5	55	11	48	12	41
KHBG-25-F3	1 "	25	25	133	65	82	28.5	64	11	57	12	50
KHMg-32-F3	1-1/4 "	32	30	163	83.4	103	37.5	85	12	75	17	60
KHMg-40-F3	1-1/2 "	40	38	168	91	114	42.5	96	12	85	17	70
KHMg-50-F3	2 "	50	40	186	100	131.5	52.5	112.5	12	105	17	80

Flange F3

Model	B1	A	C	E	F	G
KHBG-16-F3	16	57	47	38.1	17.5	M8
KHBG-20-F3	18	66	79	47.6	22.3	M10
KHBG-25-F3	19	71	53	52.4	26.2	M10
KHMg-32-F3	21	80	69	58.7	30.2	M10
KHMg-40-F3	24	95	77	69.9	35.7	M12
KHMg-50-F3	24	103	89	77.8	42.9	M12

KHBG-F6/KHMg-F6

Model	SAE SIZE	DM	LW	L	LI	H	h1	h2	h3	B	SW1	SW2
KHBG-16-F6	1/2 "	16	13	104	47	62	19	45	11	38	12	32
KHBG-20-F6	3/4 "	20	18	121	60	75	24.5	55	11	48	12	41
KHBG-25-F6	1 "	25	25	133	65	82	28.5	64	11	57	12	50
KHMg-32-F6	1-1/4 "	32	30	163	83.4	103	37.5	85	12	75	17	60
KHMg-40-F6	1-1/2 "	40	38	168	91	114	42.5	96	12	85	17	70
KHMg-50-F6	2 "	50	40	186	100	131.5	52.5	112.5	12	105	17	80

Flange F6

Model	B1	A	C	E	F	G
KHBG-16-F6	16	57	47	40.5	18.2	M8
KHBG-20-F6	19	71	53	50.8	23.8	M10
KHBG-25-F6	21	80	66	57.2	27.8	M12
KHMg-32-F6	24	94	77	66.6	31.8	M14
KHMg-40-F6	24	103	89	79.3	36.5	M16
KHMg-50-F6	30	135	123	96.8	44.5	M20

(D) BKH-SAE, MKH-SAE flange ball valve(with mating flange)

1. Introduction

BKH and MKH series are two-way, two-position high-pressure ball valves with SAE flange connections. These ball valves are designed for SAE standard flange connections and are suitable for installation in pipelines. The specific type of flange can be provided based on customer requirements. The working pressure range of these ball valves is available in two options: 21 bar and 420 bar.

2. Model

BKH-SAE **210** - **13** - **1** **1** **2** **3** - *****
 (1) (2) (3) (4) (5) (6) (7) (8)

(1) Product Code: BKH-SAE - Square body valve
 MKH-SAE - Forged body valve

(2) Nominal Pressure: 210 bar 420 bar

(3) Nominal Diameter: 13 mm, 20 mm

(4) Valve Body and Flange Material: 1 - Carbon steel (BKH-SAE) 2 - Carbon steel (MKH-SAE)

(5) Ball and Stem Material: 1 - Carbon steel 4 - Stainless steel

(6) Ball Sealing: 2 - POM (Polyoxymethylene)
 4 - PTFE (Polytetrafluoroethylene) 5 - FPM (Fluororubber)

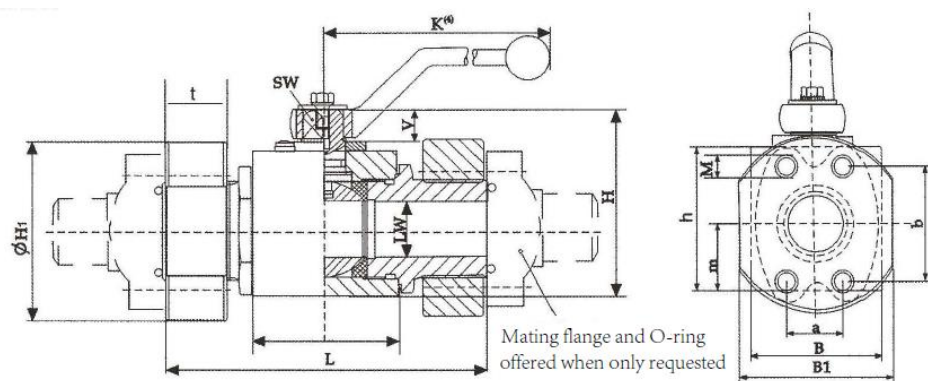
(7) Stem and Adapter Sealing: 3 - NBR (Nitrile rubber)

(8) Surface Treatment: Phosphate-free Please specify if other treatments are required.



3. Dimensions

a) BKH-SAE



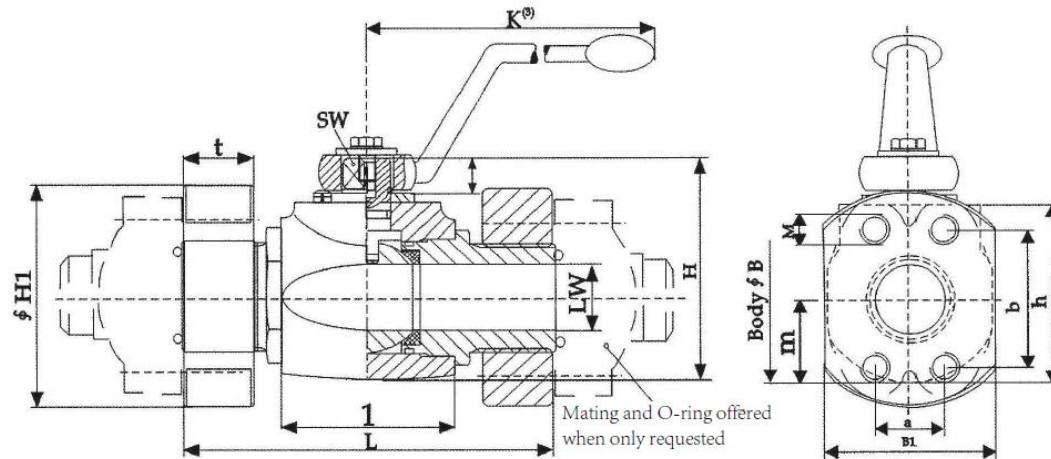
210bar(3000psi)

Model	DN	Pressure(Bar)	LW	L	I	B	H	h	m	V	sw	K(3)	B1	H1	t	a	b	M	Weight(kg)
BKH-SAE-210	13	210	13	120	48	35	52.5	40	17	8	9	135	48	56	22	17.5	38.1	M8	1.5
BKH-SAE-210	20	210	20	136	60	48	72	57	24	12	14	181	60	72	23	22.5	47.6	M10	3
BKH-SAE-210	25	210	25	148	65	57	81	64	28.5	12	14	181	70	81	27	26.2	52.4	M10	4.5

420bar(6000psi)

Model	DN	Pressure(Bar)	LW	L	I	B	H	h	m	V	sw	K(3)	B1	H1	t	a	b	M	Weight(kg)
BKH-SAE-420	13	420	13	120	48	35	52.5	40	17	8	9	135	48	56	22	18.2	40.5	M8	1.5
BKH-SAE-420	20	315	20	136	60	48	72	57	24	12	14	181	60	72	23	23.8	50.8	M10	3
BKH-SAE-420	25	315	25	148	65	57	81	64	28.5	12	14	181	70	81	27	27.8	57.2	M12	4.5

b) MKH-SAE



210bar(3000psi)

Model	DN	Pressure(Bar)	LW	L	I	B	H	h	m	V	sw	$K^{(3)}$	B1	H1	t	a	b	M	Weight(kg)
MKH-SAE-210	32	210	30	172	84	82	108	87.5	41	14	17	225	78	105	32	310	58.7	M12	7.3
MKH-SAE-210	40	210	38	177	91	93	120	99	46.5	14	17	225	96	120	32	35.7	69.8	M12	10.8
MKH-SAE-210	50	210	48	196	100	110	136	115	55	14	17	225	114	145	34	42.9	77.8	M12	18.8
MKH-SAE-210	50/60	210	48	196	100	110	136	115	55	14	17	225	114	145	34	50.8	88.9	M12	18.8

420bar(6000psi)

Model	DN	Pressure(Bar)	LW	L	I	B	H	h	m	V	sw	$K^{(3)}$	B1	H1	t	a	b	M	Weight(kg)
MKH-SAE-420	32	350	30	172	84	82	108	87.5	41	14	17	225	78	106	32	31.8	66.7	M14	7.3
MKH-SAE-420	40	350	38	177	91	93	120	99	46.5	14	17	225	96	120	32	36.5	79.4	M16	10.8
MKH-SAE-420	50	350	48	196	100	110	136	115	55	14	17	225	114	145	34	44.5	96.8	M20	18.8

(E) BKH-SAE-FS. MKH-SAE-FS flange ball valve (with SAE fitting)

1.Introduction

BKH and MKH series are two-way, two-position high-pressure ball valves. They are equipped with pipe adapters suitable for SAE J518 C-3000 PSI flange or SAE J518 C-6000 PSI flange. If required by the customer, flanges can be provided, and these flanges are interchangeable with the JB/ZQ4187-97 split-type high-pressure flanges.

3. Model

BKH-SAE-FS **210** - **13** **1** **1** **2** **3** - *****
 (1) (2) (3) (4) (5) (6) (7) (8)

(1) Product Code: BKH-SAE-FS - Square valve body

MKH-SAE-FS - Forged valve body

(2) Nominal Pressure: 210, 420 bar

(3) Nominal Diameter: 13, 20 mm

(4) Valve Body and Flange Material:

1 - Carbon steel (BKH-SAE-FS); 2 - Carbon steel (MKH-SAE)

(5) Ball and Stem Material: 1 - Carbon steel; 4 - Stainless steel

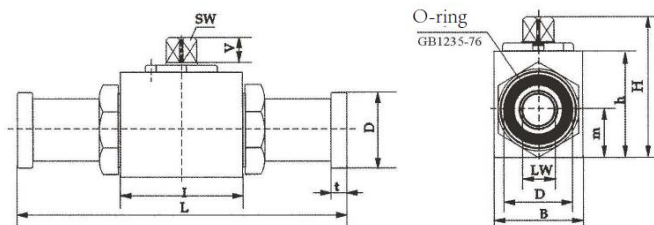
(6) Ball Seal: 2 - POM; 4 - PTFE (Polytetrafluoroethylene)

(7) Stem and Adapter Seal: 3 - NBR (Nitrile butadiene rubber); 5 - FKM (Fluorocarbon rubber)



3. Dimensions

a) BKH-SAE-FS



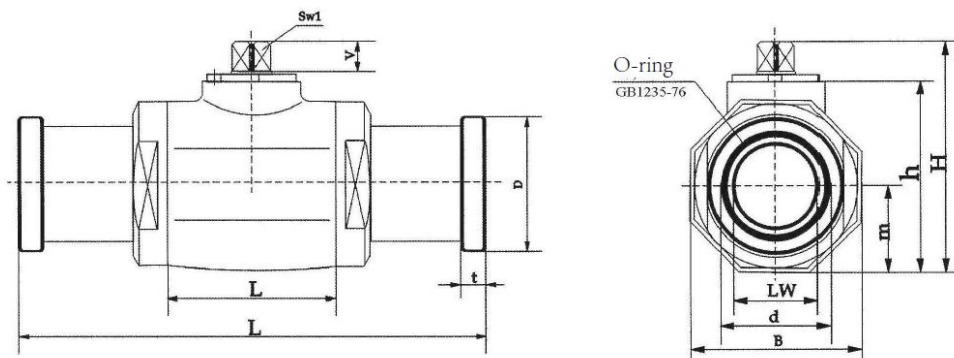
210bar(3000psi)

Model	DN	Pressure(Bar)	LW	L	I	B	H	h	m	V	sw	d	D	t	Weight(kg)
BKH-SAE-FS-210	13	210	13	151	48	35	52.5	40	17	8	9	25	30.5	6.8	0.8
BKH-SAE-FS-210	20	210	19	162	60	48	75	57	24	12	14	32	38.1	6.8	1.9
BKH-SAE-FS-210	25	210	25	178	64	57	82	64	28.5	12	14	40	44.4	8.1	2.75

420bar(6000psi)

Model	DN	Pressure(Bar)	LW	L	I	B	H	h	m	V	sw	d	D	t	Weight(kg)
BKH-SAE-FS-420	13	420	13	151	48	35	52.5	40	19	8	9	25	31.8	7.9	0.9
BKH-SAE-FS-420	20	315	19	174	60	48	75	57	24	12	14	32	41.3	8.9	1.95
BKH-SAE-FS-420	25	315	25	198	64	57	82	64	28.5	12	14	40	47.6	9.6	3

b) MKH-SAE-FS



210bar(3000psi)

Model	DN	Pressure(Bar)	LW	L	I	B	H	h	m	V	sw	d	D	t	Weight(kg)
MKH-SAE-FS-210	32	210	30	191	84	82	108	87.5	41	14	17	45	50.8	8.1	4
MKH-SAE-FS-210	40	210	38	231	91	93	120	99	46.5	14	17	55	60.3	8.1	6.2
MKH-SAE-FS-210	50	210	48	232	100	110	136	115	55	14	17	65	71.4	9.6	9.1

420bar(6000psi)

Model	DN	Pressure(Bar)	LW	L	I	B	H	h	m	V	SW	d	D	t	Weight(kg)
MKH-SAE-FS-420	32	350	30	223	84	82	108	87.5	41	14	17	45	54	10.4	4.5
MKH-SAE-FS-420	40	350	38	281	91	93	120	99	46.5	14	17	55	63.5	12.7	7.2
MKH-SAE-FS-420	50	350	48	316	100	110	136	115	55	14	17	65	79.4	12.7	10.8