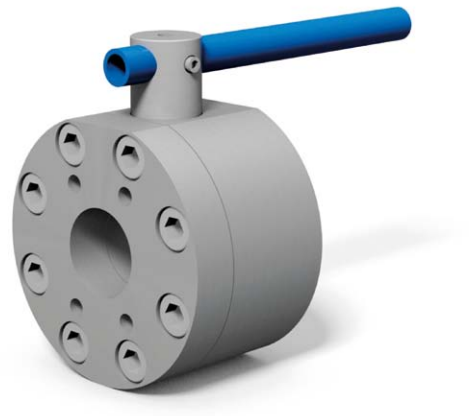
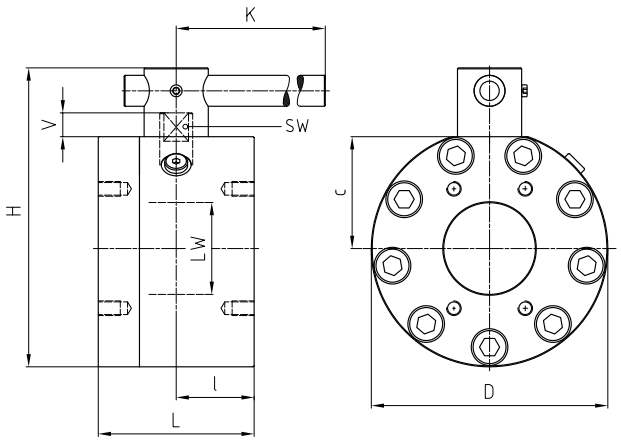
Flange ball valve with SAE connection metric / UNC Steel

KH-SAE





AVAILABLE SIZES

DN65 - DN125 (2 1/2“ to 5“)

CONNECTIONS

ISO 6162-1 (single flange pattern)

ACCESSORIES ON REQUEST

• Locking devices	page 226
• Actuators	220 - 221
• Mounting holes	on request
• Position switches	on request
• Combinations	on request
• Detent	on request

MATERIAL CODE DESCRIPTION

Materials	282A	2828
Body	Steel	Steel
Ball	Steel	Steel
Stem	Duplex	Duplex
Ball seats	POM	POM
O-rings	NBR	FPM
Tmin /Tmax	-10°C / 100°C	-10°C / 100°C

GENERAL DIMENSIONS

Type	LW	L	l	D	H	c	V	K	SW	Lever
KH-DN65	63	150	75	198	259	94	20	600	16	St[1]
KH-DN80 (PN100)	76	140	70	210	277	100	26	600	19	St[1]
KH-DN80 (PN160)	76	150	79	218	284	103,5	26	600	19	St[1]
KH-DN100	100	170	85	258	326	122	27	900	24	St[1]
KH-DN125	118	210	105	295	377	140	33	900	36	St[1]

Please note the pressure ratings of the connection flanges!

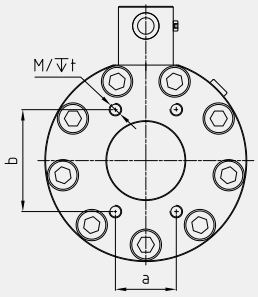
[1] Lever must be fixed centrally during operation. In case of vibration the handle may otherwise operate the valve by itself.

Flange ball valve with SAE connection metric / UNC Steel

KH-SAE

CONNECTION TYPE

ISO 6162-1
(single flange pattern)



DIMENSIONS

ORDER CODE PER MATERIAL COMBINATION

Type	a	b	M	t	Weight [Kg]	PN [bar]	282A	2828
KH-DN65-SAE210	50,8	88,9	M12	19	33,50	175	32104	25933
KH-DN80-SAE210	61,9	106,4	M16	24	33,50	100	30721	25934
KH-DN80-SAE210	61,9	106,4	M16	24	39,40	160	58097	58098
KH-DN100-SAE210	77,8	130,2	M16	24	60,50	35	30722	25935
KH-DN125-SAE210	92,1	152,4	M16	30	95,50	35	14830	25936
KH-DN65-SAE210	50,8	88,9	1/2″ UNC	19	33,50	175	21886	10702
KH-DN80-SAE210	61,9	106,4	5/8″ UNC	24	33,50	100	27427	10701
KH-DN80-SAE210	61,9	106,4	5/8" UNC	24	39,40	160	58101	58102
KH-DN100-SAE210	77,8	130,2	5/8″ UNC	24	60,50	35	27428	10700
KH-DN125-SAE210	92,1	152,4	5/8″ UNC	30	95,50	35	37954	10699

We stamp the valves with the flange pressure rating in accordance with ISO 6162-1 as stated above. Nevertheless the valve is suitable for usage up to 210 bar if higher-rated flanges are used.

BYPASS OPTION

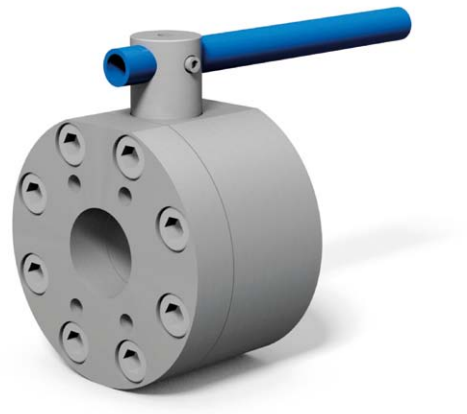


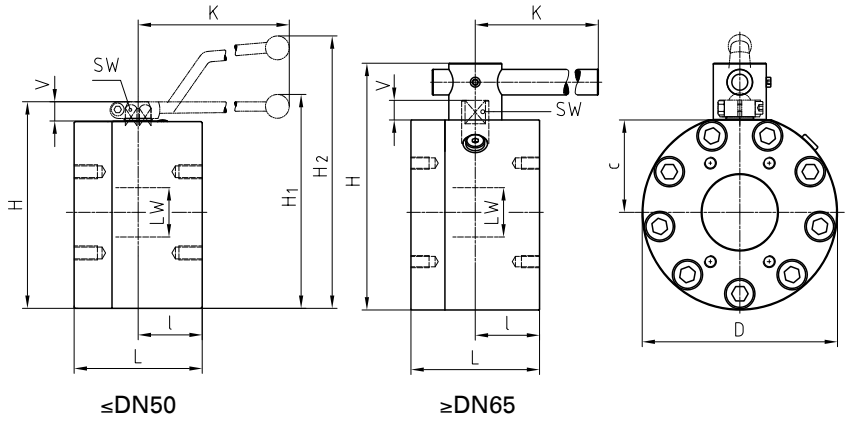
When larger ball valves have to be activated at full differential pressure, a smaller ball valve can be used before activation in order to equalize the pressure.
We combine the bypass within the flange valve body to provide less leakage points compared to a piped solution.

- Both main and bypass valve can be offered with locking device or any other accessory like limit switches or actuators.
- Bypass is a standard manifold mounting PKH valve which can be easily maintained or replaced
- Bypass manifold mounting valve provides bubble tight shut off.

Flange ball valve with SAE connection metric / UNC Stainless Steel

KH-SAE





AVAILABLE SIZES

DN15 - DN125 (5/8“ to 5“)

CONNECTIONS

ISO 6162-1, ISO 6162-2 (single flange pattern)

ACCESSORIES ON REQUEST

• Locking devices	page 222 - 226
• Actuators	220 - 221
• Mounting holes	on request
• Position switches	on request
• Combinations	on request
• Detent	on request

MATERIAL CODE DESCRIPTION

Materials	442A	4428
Body	Stainless Steel	Stainless Steel
Ball	Stainless Steel	Stainless Steel
Stem	Stainless Steel	Stainless Steel
Ball seats	POM	POM
O-rings	NBR	FPM
Tmin /Tmax	-10°C / 100°C	-10°C / 100°C

GENERAL DIMENSIONS ISO 6162-1 (SAE210)

Type	LW	L	I	D	H	c	V	K	SW	H_1	H_2	Lever
KH-DN15	15	75	35	78	83	31	13	160	12	-	127	Al
KH-DN20	20	80	35	98	100	36,5	14	200	14	103	-	Zn
KH-DN25	25	88	38	118	113	39,5	14	200	14	116	-	Zn
KH-DN32	32	100	50	145	158	68	17	320	17	167	-	Al
KH-DN40	38	110	55	165	178	78	17	320	17	187	-	Al
KH-DN50	48	116	58	198	210	94	17	320	17	219	-	Al
KH-DN65	63	150	75	198	259	94	20	600	16	-	-	St(1)
KH-DN80 (PN100)	76	140	70	210	277	100	26	600	19	-	-	St(1)
KH-DN80 (PN160)	76	150	79	218	284	103,5	26	600	19	-	-	St(1)
KH-DN100	100	170	85	258	326	122	27	900	24	-	-	St(1)
KH-DN125	118	210	105	295	377	140	33	900	36	-	-	St(1)

GENERAL DIMENSIONS ISO 6162-2 (SAE420)

Type	LW	L	I	D	H	c	V	K	SW	H_1	H_2	Lever
KH-DN15	15	75	35	78	83	31	13	160	12	-	127	Al
KH-DN20	20	80	35	98	100	36,5	14	200	14	103	-	Zn
KH-DN25	25	88	38	118	113	39,5	14	200	14	116	-	Zn
KH-DN32	32	100	50	145	158	68	17	320	17	167	-	Al
KH-DN40	38	110	55	165	178	78	17	320	17	187	-	Al
KH-DN50	48	116	58	198	210	94	17	320	17	219	-	Al
KH-DN65	63	170	75	218	275	100	20	600	16	-	-	St(1)
KH-DN80 (PN100)	76	170	70	248	307	111	26	600	19	-	-	St(1)
KH-DN80 (PN420)	76	170	79	258	315	114,5	26	600	19	-	-	St(1)

Please note the pressure ratings of the connection flanges!

(1) Lever must be fixed centrally during operation. In case of vibration the handle may otherwise operate the valve by itself.

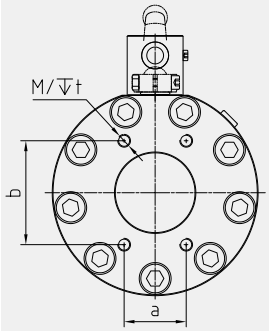
We stamp the valves with the flange pressure rating in accordance with ISO 6162-1 as stated above. Nevertheless the valve is suitable for usage up to 210 bar if higher-rated flanges are used.

Flange ball valve with SAE connection metric / UNC Stainless Steel

KH-SAE

CONNECTION TYPE

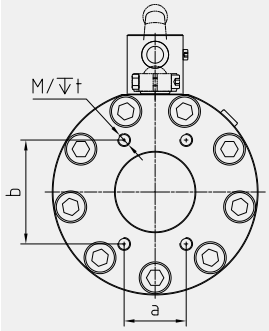
ISO 6162-1 (single flange pattern)



DIMENSIONS						ORDER CODE PER MATERIAL COMBINATION		
Type	a	b	M	t	Weight [Kg]	PN [bar]	442A	4428
KH-DN15-SAE210	17,5	38,1	M8	18	2,50	350	17228	37557
KH-DN20-SAE210	22,2	47,6	M10	18	4,15	350	19946	37558
KH-DN25-SAE210	26,2	52,4	M10	20	6,27	320	17229	37559
KH-DN32-SAE210	30,2	58,7	M12[2]	20	11,85	210	16115	37566
KH-DN32-SAE210	30,2	58,7	M10	20	11,85	280	41727	41728
KH-DN40-SAE210	35,7	69,9	M12	21	17,00	210	12818	13256
KH-DN50-SAE210	42,9	77,8	M12	20	25,50	210	12819	13257
KH-DN65-SAE210	50,8	88,9	M12	19	33,50	175	17592	13255
KH-DN80-SAE210	61,9	106,4	M16	24	33,50	100	25309	13254
KH-DN80-SAE210	61,9	106,4	M16	24	40,00	160	58099	58100
KH-DN100-SAE210	77,8	130,2	M16	24	60,50	35	23662	32960
KH-DN125-SAE210	92,1	152,4	M16	30	95,50	35	37567	37568
KH-DN15-SAE210	17,5	38,1	5/16″ UNC	18	2,50	350	24701	37813
KH-DN20-SAE210	22,2	47,6	3/8″ UNC	18	4,15	350	37815	37816
KH-DN25-SAE210	26,2	52,4	3/8″ UNC	20	6,27	320	37818	37941
KH-DN32-SAE210	30,2	58,7	7/16″ UNC	20	11,85	280	37943	37944
KH-DN40-SAE210	35,7	69,9	1/2″ UNC	20	17,00	210	37946	37947
KH-DN50-SAE210	42,9	77,8	1/2″ UNC	20	25,50	210	27350	37949
KH-DN65-SAE210	50,8	88,9	1/2″ UNC	19	33,50	175	37950	37951
KH-DN80-SAE210	61,9	106,4	5/8″ UNC	24	33,50	100	33274	37952
KH-DN80-SAE210	61,9	106,4	5/8″ UNC	24	40,00	160	58103	58104
KH-DN100-SAE210	77,8	130,2	5/8″ UNC	24	60,50	35	24717	37953
KH-DN125-SAE210	92,1	152,4	5/8″ UNC	30	95,50	35	37955	37956

CONNECTION TYPE

ISO 6162-2 (single flange pattern)



DIMENSIONS						ORDER CODE PER MATERIAL COMBINATION		
Type	a	b	M	t	Weight [Kg]	PN [bar]	442A	4428
KH-DN15-SAE420	18,2	40,5	M8	18	2,50	420	26159	37571
KH-DN20-SAE420	23,8	50,8	M10	18	4,25	420	16937	37572
KH-DN25-SAE420	27,8	57,2	M12	20	6,30	420	37569	37570
KH-DN32-SAE420	31,8	66,7	M14[2]	22	11,80	420	16114	37573
KH-DN32-SAE420	31,8	66,7	M12	22	11,80	420	41731	41732
KH-DN40-SAE420	36,5	79,4	M16	27	16,90	420	14401	16313
KH-DN50-SAE420	44,5	96,8	M20	28	25,30	420	16113	37574
KH-DN65-SAE420	123,8	58,7	M24	41	44,50	420	46354	46355
KH-DN80-SAE420	152,4	71,4	M30	47	55,00	100	46356	46357
KH-DN80-SAE420	152,4	71,4	M30	47	63,50	420	58105	58106
KH-DN15-SAE420	18,2	40,5	5/16″ UNC	18	2,50	420	37958	37959
KH-DN20-SAE420	23,8	50,8	3/8″ UNC	18	4,25	420	37961	37962
KH-DN25-SAE420	27,8	57,2	7/16″ UNC	20	6,30	420	37964	14241
KH-DN32-SAE420	31,8	66,7	1/2″ UNC	22	11,80	420	37966	18654
KH-DN40-SAE420	36,5	79,4	5/8″ UNC	24	16,90	420	27349	14242
KH-DN50-SAE420	44,5	96,8	3/4″ UNC	30	25,30	420	29020	14243

[2] This version is not to be used for new designs.