

BALL VALVE

Mounting Pad 2-Piece Flanged Ball Valve
 PN16, DN15~DN300

MODEL: KHD-2F

» Features

- Blow-out proof stem
- With ISO 5211 mounting pad
- Lever or gear operated
- Firesafe design available upon request
- Gland design DN125~300 enables easy re-tightening

» Body Material

DIN 1.4408, 1.4308, 1.0619

» Size Range

1/2" - 12" (DN15~DN300)

» Pressure Rating

PN16

» Standards

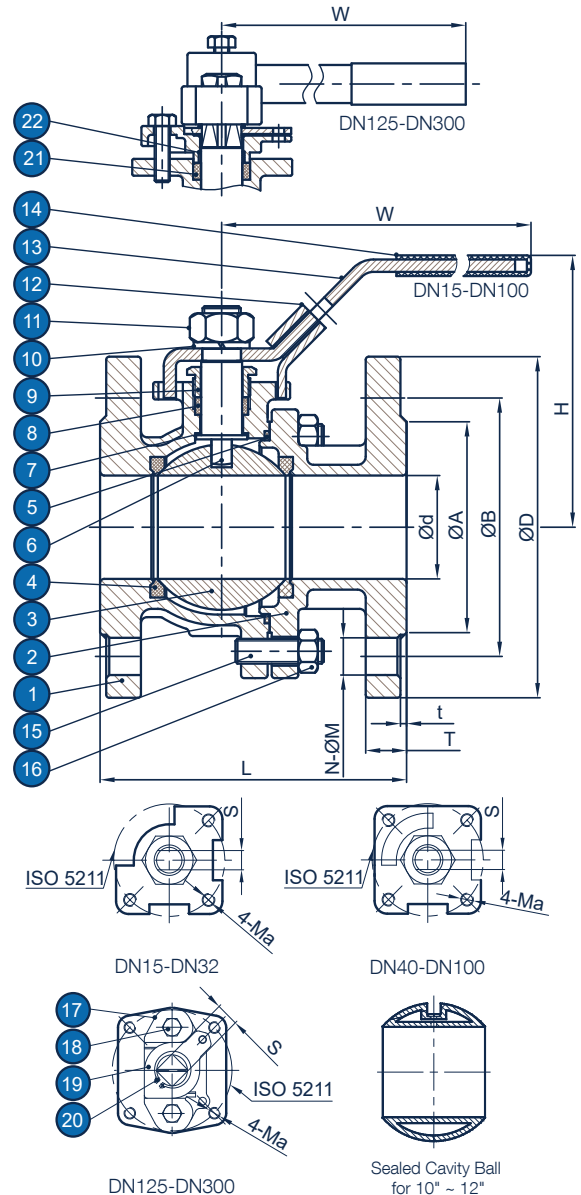
- Design: EN 12516-1
- Face-to-Face: DIN 3202-F4/F5
- Flange End Dimensions: DIN 2633 PN16
- Inspection & test acc. to EN 12266-1

» Temperature Range

-4°F to 350°F (-20°C to 180°C) with PTFE seats

Materials List:

NO	PART NAME	MATERIAL
1	BODY	1.4408 / 1.4308 / 1.0619
2	CAP	1.4408 / 1.4308 / 1.0619
3	BALL	1.4408 / 1.4308
4	BALL SEAT	PTFE
5	BODY SEAL	PTFE
6	STEM	SUS304 / SUS316
7	THRUST WASHER	PTFE
8	STEM PACKING	PTFE
9	GLAND	SUS304
10	HANDLE WASHER	SUS304
11	HANDLE NUT	SUS304
12	LOCKING DEVICE	SUS304
13	HANDLE	SUS304
14	HANDLE SLEEVE	PLASTIC
15	BODY BOLT	SUS304 / CARBON STEEL
16	BODY BOLT NUT	SUS304 / CARBON STEEL
17	GLAND	1.4308
18	GLAND BOLT	SUS304 / CARBON STEEL
19	LOCKING DEVICE	SUS304
20	SNAP RING	SUS304
21	GLAND PACKING	PTFE
22	STEM BUSHING	PTFE



Dimensions (mm):

SIZE		d	L	H	T	t	S	A	B	D	W	Ma	ISO 5211	N-ØM	Torque N.m	Cv	Kv
IN	DN																
1/2"	15	15	115	76	16	2	8	45	65	95	153	M5	F04	4-Ø14	16	24	20.6
3/4"	20	20	120	78	18	2	8	58	75	105	153	M5	F04	4-Ø14	20	47	40.3
1"	25	25	125	92	18	2	9.5	68	85	115	188	M6	F05	4-Ø14	25	81	69.4
1 1/4"	32	32	130	95	18	2	9.5	78	100	140	188	M6	F05	4-Ø18	28	132	113.1
1 1/2"	40	40	140	126	16	3	12	88	110	150	245	M8	F07	4-Ø18	32	202	173.1
2"	50	50	150	132	18	3	12	102	125	165	245	M8	F07	4-Ø18	38	376	322.2
2 1/2"	65	65	170	166	18	3	16	122	145	185	288	M10	F10	4-Ø18	55	642	550.1
3"	80	80	180	176	20	3	16	138	160	200	288	M10	F10	8-Ø18	83	901	772.1
4"	100	100	190	190	20	3	16	158	180	220	388	M10	F10	8-Ø18	110	1588	1360.8
5"	125	125	325	224	22	3	24	188	210	250	750	M12	F12	8-Ø18	187	4500	3856
6"	150	150	350	247	22	3	24	212	240	285	750	M12	F12	8-Ø22	297	3847	3296.5
8"	200	200	400	305	24	3	32	268	295	340	1000	M12	F12	12-Ø22	660	6900	5912.6
10"	250	250	450	327	26	3	32	320	355	405	1000	M16	F14	12-Ø26	880	10800	9254.5
12"	300	300	500	355	28	4	32	378	410	460	1000	M16	F14	16-Ø26	1100	15600	13367.6

Note: Torque measured at ambient temperature with no loading ; safety factor is not included. Select size(s) may be under development, please consult with us for details.

BALL VALVE

Mounting Pad 2-Piece Flanged Ball Valve
 CLASS 150, 1/2"~12"

MODEL: KHD-2F

» Features

- Blow-out proof stem
- With ISO 5211 mounting pad
- Firesafe design available upon request
- Gland design enables easy re-tightening

» Body Material

ASTM CF8M, CF8, WCB

» Size Range

1/2" - 12" (DN15~DN300)

» Pressure Rating

CLASS 150

» Standards

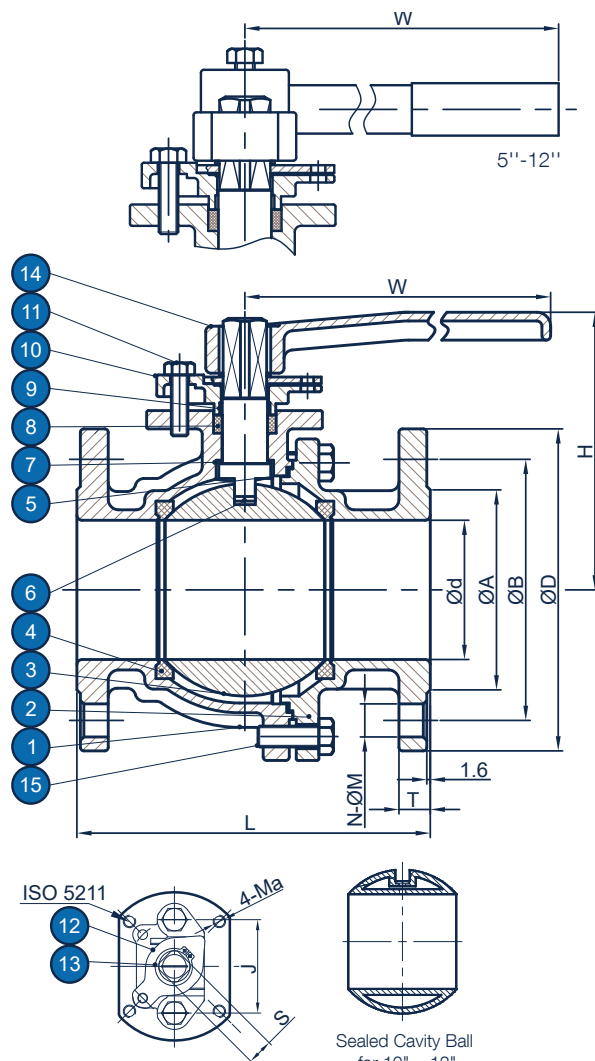
- Design: ASME B16.34
- Face-to-Face: ASME B16.10
- Flange End Dimensions: ASME B16.5
- Inspection & test acc. to API 598

» Temperature Range

-4°F to 350°F (-20°C to 180°C) with PTFE seats

Materials List:

NO	PART NAME	MATERIAL
1	BODY	CF8 / CF8M / WCB
2	CAP	CF8 / CF8M / WCB
3	BALL	CF8 / CF8M
4	BALL SEAT	PTFE
5	BODY SEAL	PTFE
6	STEM	SUS304 / SUS316
7	THRUST WASHER	TFM4215
8	STEM PACKING	PTFE
9	STEM BUSHING	PTFE
10	GLAND	CF8
11	GLAND BOLT	SUS304 / CARBON STEEL
12	LOCKING DEVICE	SUS304
13	SNAP RING	SUS304
14	HANDLE	FCD
15	BODY BOLT	SUS304 / CARBON STEEL



Dimensions (mm):

SIZE		d	L	H	T	S	A	B	D	W	J	Ma	ISO 5211	N-ØM	Torque N.m	Cv	Kv
IN	DN																
1/2"	15	15	108	92	11.1	12	35	60.5	89	160	50	M5	F04	4-Ø16	16	24	20.6
3/4"	20	20	117	98	11.1	12	43	70	98	160	50	M5	F04	4-Ø16	20	47	40.3
1"	25	25	127	103	11.1	12	51	79.5	108	160	50	M6	F05	4-Ø16	25	81	69.4
1¼"	32	32	140	107	12.7	12	64	89.5	117	160	50	M6	F05	4-Ø16	28	132	113.1
1½"	40	40	165	112	14.3	17	73	98.5	127	230	62	M8	F07	4-Ø16	32	202	173.1
2"	50	50	178	122	15.9	17	92	120.5	152	230	62	M8	F07	4-Ø19	38	376	322.2
2½"	65	65	190	151	17.5	21	105	139.5	178	350	75	M8	F07	4-Ø19	55	642	550.1
3"	80	80	203	161	19.1	21	127	152.5	190	350	75	M10	F10	4-Ø19	83	901	772.1
4"	100	100	229	175	23.9	21	157	190.5	229	350	75	M10	F10	8-Ø19	110	1588	1360.8
5"	125	125	356	224	23.9	24	186	216	254	750	89	M12	F12	8-Ø22	187	4500	3856
6"	150	150	394	247	25.4	24	216	241.5	279	750	89	M12	F12	8-Ø22	297	3847	3296.5
8"	200	200	457	305	28.6	32	270	298.5	343	1000	100	M12	F12	8-Ø22	660	6900	5912.6
10"	250	250	533	327	30.2	32	324	362	406	1000	100	M16	F14	12-Ø25	880	10800	9254.5
12"	300	300	610	355	31.8	32	381	432	483	1000	100	M16	F14	12-Ø25	1100	15600	13367.6

Note: Torque measured at ambient temperature with no loading ; safety factor is not included. Select size(s) may be under development, please consult with us for details.

BALL VALVE

Mounting Pad 2-Piece Flanged Ball Valve
 CLASS 300, 1/2"~12"

MODEL: KHD-2F

» Features

- Blow-out proof stem
- With ISO 5211 mounting pad
- Firesafe design available upon request
- Gland design enables easy re-tightening

» Body Material

ASTM CF8M, CF8, WCB

» Size Range

1/2" - 12" (DN15~DN300)

» Pressure Rating

CLASS 300

» Standards

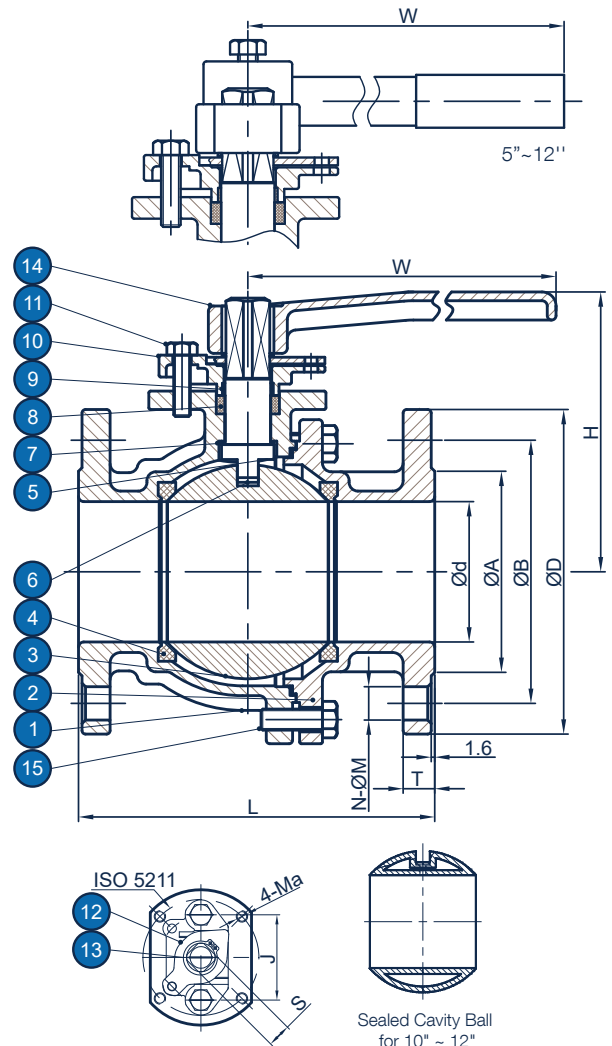
- Design: ASME B16.34
- Face-to-Face: ASME B16.10
- Flange End Dimensions: ASME B16.5
- Inspection & test acc. to API 598

» Temperature Range

-4°F to 350°F (-20°C to 180°C) with PTFE seats

Materials List:

NO	PART NAME	MATERIAL
1	BODY	CF8 / CF8M / WCB
2	CAP	CF8 / CF8M / WCB
3	BALL	CF8 / CF8M
4	BALL SEAT	PTFE
5	BODY SEAL	PTFE
6	STEM	SUS304 / SUS316
7	THRUST WASHER	TFM4215
8	STEM PACKING	PTFE
9	STEM BUSHING	PTFE
10	GLAND	CF8
11	GLAND BOLT	SUS304 / CARBON STEEL
12	LOCKING DEVICE	SUS304
13	SNAP RING	SUS304
14	HANDLE	FCD
15	BODY BOLT	SUS304 / CARBON STEEL



Dimensions (mm):

SIZE		d	L	H	T	S	A	B	D	W	J	Ma	ISO 5211	N-ØM	Torque N.m	Cv	Kv
IN	DN																
1/2"	15	15	140	92	14.3	12	35	66.5	95	160	50	M5	F04	4-Ø16	20	24	20.6
3/4"	20	20	152	98	15.9	12	43	82.5	117	160	50	M5	F04	4-Ø19	25	47	40.3
1"	25	25	165	103	17.5	12	51	89	124	160	50	M6	F05	4-Ø19	29	81	69.4
1¼"	32	32	178	107	19.1	12	64	98.5	133	160	50	M6	F05	4-Ø19	36	132	113.1
1½"	40	40	190	112	20.7	17	73	114.5	156	230	62	M8	F07	4-Ø22	42	202	173.1
2"	50	50	216	122	22.3	17	92	127	165	230	62	M8	F07	8-Ø19	52	376	322.2
2½"	65	65	241	151	25.4	21	105	149	190	350	75	M8	F07	8-Ø22	64	642	550.1
3"	80	80	283	161	28.6	21	127	168	210	350	75	M10	F10	8-Ø22	110	901	772.1
4"	100	100	305	175	31.8	21	157	200	254	350	75	M10	F10	8-Ø22	165	1588	1360.8
6"	150	150	403	247	36.6	24	216	270	318	750	89	M12	F12	12-Ø22	352	3847	3296.5
8"	200	200	502	305	41.3	32	270	330	381	1000	100	M12	F12	12-Ø25	660	6900	5912.6
10"	250	250	568	351	47.7	32	324	387	444	1000	100	M16	F14	16-Ø29	880	10800	9254.5
12"	300	300	648	389	50.8	32	381	451	521	1000	100	M16	F14	16-Ø32	1100	15600	13367.6

Note: Torque measured at ambient temperature with no loading ; safety factor is not included. Select size(s) may be under development, please consult with us for details.

BALL VALVE

Mounting Pad 2-Piece Flanged Ball Valve
 JIS10K, 1/2"~12"

MODEL: KHD-2F

» Features

- Blow-out proof stem
- With ISO 5211 mounting pad
- Firesafe design available upon request
- Gland design enables easy re-tightening

» Body Material

SCS13, SCS14, WCB

» Size Range

1/2" - 12" (DN15~DN300)

» Pressure Rating

JIS10K

» Standards

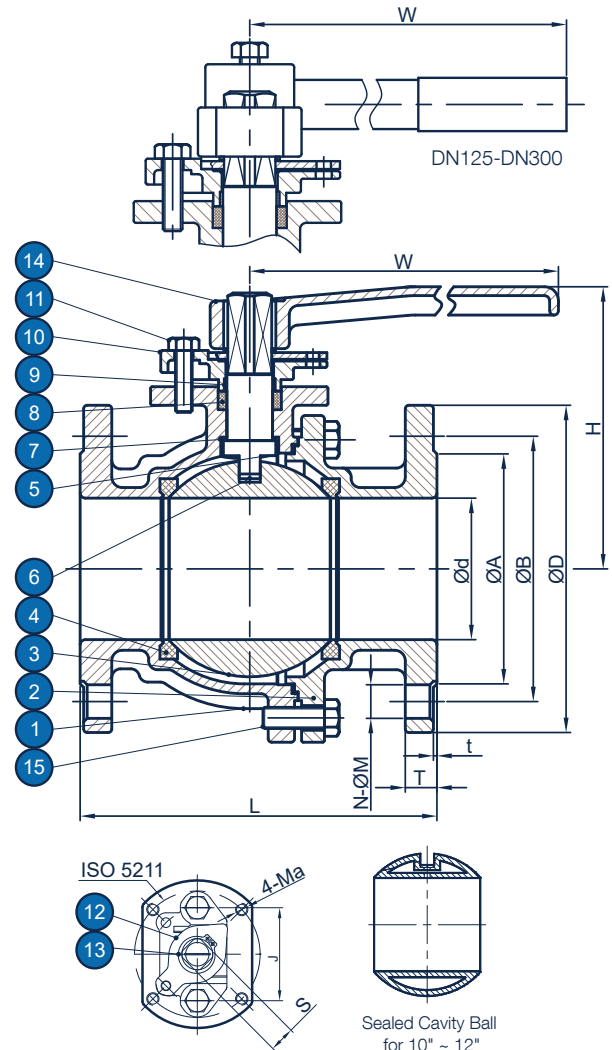
- Design: ASME B16.34
- Face-to-Face: JIS B2002
- Flange End Dimensions: JIS B2220
- Inspection & test acc. to JIS B2003

» Temperature Range

-4°F to 350°F (-20°C to 180°C) with PTFE seats

Materials List:

NO	PART NAME	MATERIAL
1	BODY	SCS13 / SCS14 / WCB
2	CAP	SCS13 / SCS14 / WCB
3	BALL	SCS13 / SCS14
4	BALL SEAT	PTFE
5	BODY SEAL	PTFE
6	STEM	SUS304 / SUS316
7	THRUST WASHER	TFM4215
8	STEM PACKING	PTFE
9	STEM BUSHING	PTFE
10	GLAND	SCS13
11	GLAND BOLT	SUS304 / CARBON STEEL
12	LOCKING DEVICE	SUS304
13	SNAP RING	SUS304
14	HANDLE	FCD
15	BODY BOLT	SUS304 / CARBON STEEL



Dimensions (mm):

SIZE		d	L	H	T	t	S	A	B	D	W	J	Ma	ISO 5211	N-ØM	Torque N.m	Cv	Kv
IN	DN																	
1/2"	15	15	110	92	12	1	12	51	70	95	160	50	M5	F04	4-Ø15	16	24	20.6
3/4"	20	20	120	98	14	1	12	56	75	100	160	50	M5	F04	4-Ø15	20	47	40.3
1"	25	25	130	103	14	1	12	67	90	125	160	50	M6	F05	4-Ø19	25	81	69.4
1 1/4"	32	32	140	107	16	2	12	76	100	135	160	50	M6	F05	4-Ø19	28	132	113.1
1 1/2"	40	40	165	112	16	2	17	81	105	140	230	62	M8	F07	4-Ø19	32	202	173.1
2"	50	50	180	122	16	2	17	96	120	155	230	62	M8	F07	4-Ø19	38	376	322.2
2 1/2"	65	65	190	151	18	2	21	116	140	175	350	75	M8	F07	4-Ø19	55	642	550.1
3"	80	80	200	161	18	2	21	126	150	185	350	75	M10	F10	8-Ø19	83	901	772.1
4"	100	100	230	175	18	2	21	151	175	210	350	75	M10	F10	8-Ø19	110	1588	1360.8
5"	125	125	300	224	20	2	24	182	210	250	750	89	M12	F12	8-Ø23	187	4500	3856
6"	150	150	340	247	22	2	24	212	240	280	750	89	M12	F12	8-Ø23	297	3847	3296.5
8"	200	200	450	305	22	2	32	262	290	330	1000	100	M12	F12	12-Ø23	660	6900	5912.6
10"	250	250	530	327	24	2	32	324	355	400	1000	100	M16	F14	12-Ø25	880	10800	9254.5
12"	300	300	610	355	24	3	32	368	400	445	1000	100	M16	F14	16-Ø25	1100	15600	13367.6

Note: Torque measured at ambient temperature with no loading ; safety factor is not included. Select size(s) may be under development, please consult with us for details.

BALL VALVE

Mounting Pad 2-Piece Flanged Ball Valve
 JIS20K, 1/2"~8"

MODEL: KHD-2F

» Features

- Blow-out proof stem
- With ISO 5211 mounting pad
- Firesafe design available upon request
- Gland design enables easy re-tightening

» Body Material

SCS13, SCS14, WCB

» Size Range

1/2" - 8" (DN15~DN200)

» Pressure Rating

JIS20K

» Standards

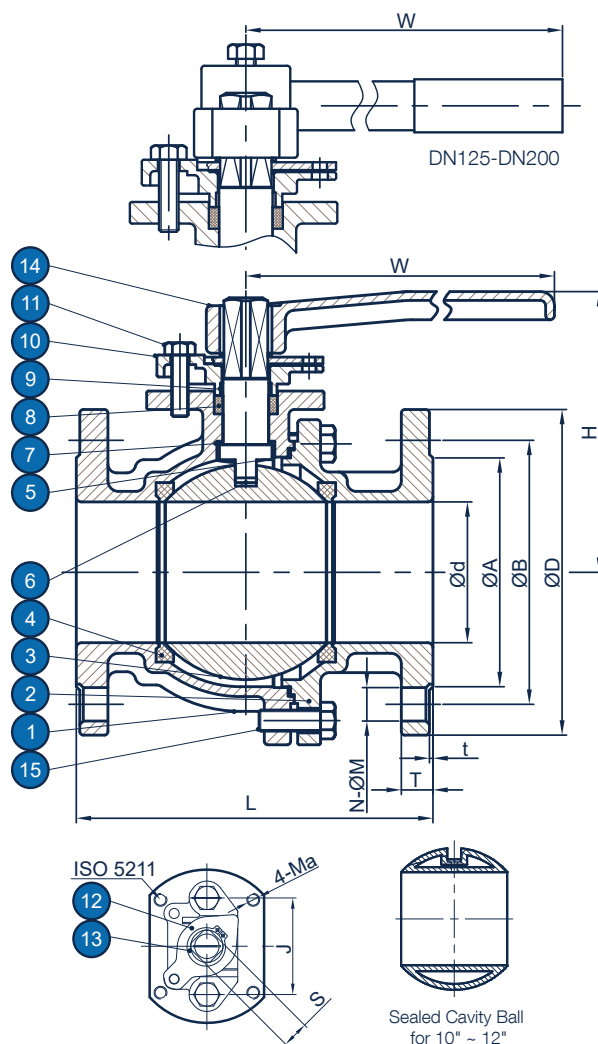
- Design: ASME B16.34
- Face-to-Face: JIS B2002
- Flange End Dimensions: JIS B2220
- Inspection & test acc. to JIS B2003

» Temperature Range

-4°F to 350°F (-20°C to 180°C) with PTFE seats

Materials List:

NO	PART NAME	MATERIAL
1	BODY	SCS13 / SCS14 / WCB
2	CAP	SCS13 / SCS14 / WCB
3	BALL	SCS13 / SCS14
4	BALL SEAT	PTFE
5	BODY SEAL	PTFE
6	STEM	SUS304 / SUS316
7	THRUST WASHER	TFM4215
8	STEM PACKING	PTFE
9	STEM BUSHING	PTFE
10	GLAND	SCS13
11	GLAND BOLT	SUS304 / CARBON STEEL
12	LOCKING DEVICE	SUS304
13	SNAP RING	SUS304
14	HANDLE	FCD
15	BODY BOLT	SUS304 / CARBON STEEL



Dimensions (mm):

SIZE		d	L	H	T	t	S	A	B	D	W	J	Ma	ISO 5211	N-ØM	Torque N.m	Cv	Kv
IN	DN																	
1/2"	15	15	140	92	14	1	12	51	70	95	160	50	M5	F04	4-Ø15	20	24	20.6
3/4"	20	20	152	98	16	1	12	56	75	100	160	50	M5	F04	4-Ø15	25	47	40.3
1"	25	25	165	103	16	1	12	67	90	125	160	50	M6	F05	4-Ø19	29	81	69.4
1¼"	32	32	178	107	18	2	12	76	100	135	160	50	M6	F05	4-Ø19	36	132	113.1
1½"	40	40	190	112	18	2	17	81	105	140	230	62	M8	F07	4-Ø19	42	202	173.1
2"	50	50	216	122	18	2	17	96	120	155	230	62	M8	F07	8-Ø19	52	376	322.2
2½"	65	65	241	151	20	2	21	116	140	175	350	75	M8	F07	8-Ø19	64	642	550.1
3"	80	80	283	161	22	2	21	132	160	200	350	75	M10	F10	8-Ø23	110	901	772.1
4"	100	100	305	175	24	2	21	160	185	225	350	75	M10	F10	8-Ø23	165	1588	1360.8
5"	125	125	381	224	26	2	24	195	225	270	750	89	M12	F12	8-Ø25	220	4500	3856
6"	150	150	403	247	28	2	24	230	260	305	750	89	M12	F12	12-Ø25	352	3847	3296.5
8"	200	200	502	305	30	2	32	275	305	350	1000	100	M12	F12	12-Ø25	660	6900	5912.6

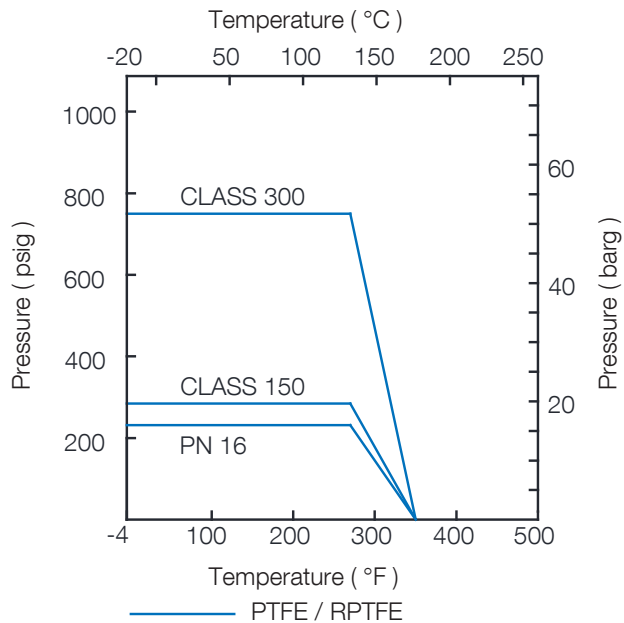
Note: Torque measured at ambient temperature with no loading ; safety factor is not included. Select size(s) may be under development, please consult with us for details.

BALL VALVE

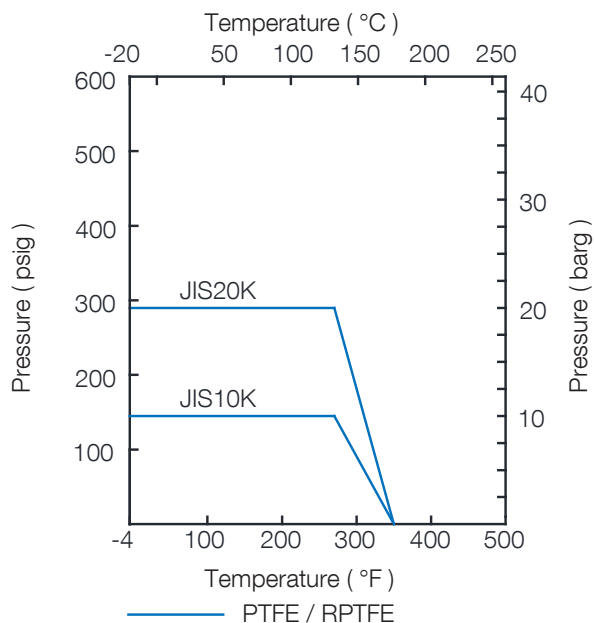
Mounting Pad 2-Piece Flanged Ball Valve
 Pressure-Temperature Chart

MODEL: KHD-2F

Valve Body Rating with Seat Material Plot :
 PN16 / CLASS 150 / CLASS 300



Valve Body Rating with Seat Material Plot :
 JIS10K / JIS20K



All information is based on years of experience in production and operation of sealing elements. However, in view of the wide variety of possible installation and operating conditions one cannot draw final conclusions in all application cases regarding the behaviour in gasket joint. The data may not, therefore, be used to support any warranty claims. This edition cancels all previous issues. Subject to change without notice.

Certified acc. to DIN EN ISO 9001:2015 Subject to technical alterations.
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