

Weich Dichtende

Hochleistungs-Kugelhähne

Soft Seated

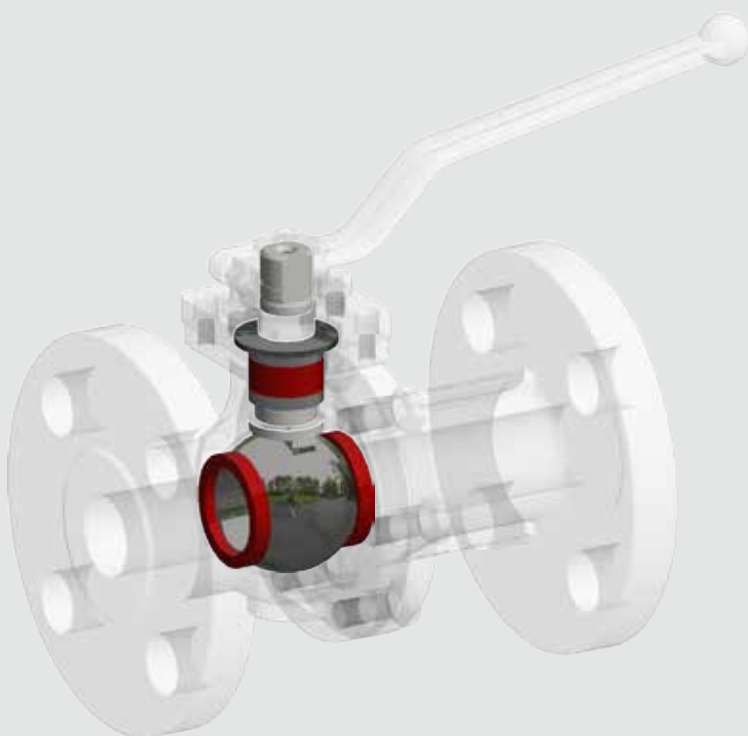
High Performance Ball Valves

TYP KHF 510

- 1/2" - 12", ANSI Class 150-600
- Flansche & Baulängen:
ASME B16.5-16.10
- Werkstoffe:
1.4408 (CF8M)
1.0619 (WCB)
Sonderwerkstoffe (Duplex,
Hastelloy C4... etc.) auf Anfrage
- Temperaturbereich:
-50°C bis +200°C, bis +260°C auf Anfrage
-58°F bis +392°F, bis +500°F auf Anfrage

TYPE KHF 510

- 1/2" - 12", ANSI Class 150-600
- Flange & face-to face-dimensions:
ASME B16.5-16.10
- Materials:
1.4408 (CF8M)
1.0619 (WCB)
Special Materials (Duplex,
Hastelloy C4... etc.) on request
- Temperature range:
-50°C to +200°C, up to +260°C on request
-58°F to +392°F, up to +500°F on request



TYP KHF 510

weich dichtend

Maßzeichnung

TYPE KHF 510

soft seats

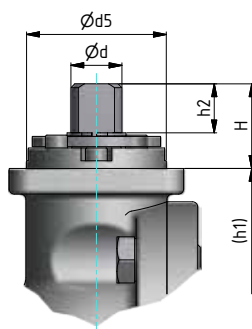
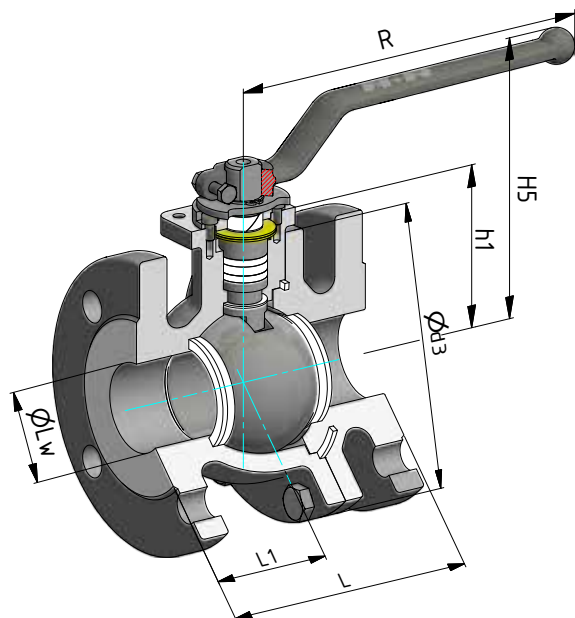
Dimensional Drawing

Flanschanschluss nach nach ASME B16.5

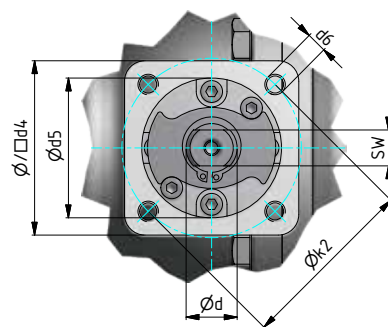
Standard Dichtleiste: raised face (andere auf Anfrage)

flange connection according to ASME B16.5

flange facing: standard raised face (others on request)



DIN EN ISO 5211



ISO 5211	Øk2	d5	thread length	Ød5 (f8)	Ø/ d4
F 05	50,0	4 x M6	10,0	35,0	□48
F 07	70,0	4 x M8	12,0	55,0	□68
F 10	102,0	4 x M10	15,0	70,0	□96
F 12	125,0	4 x M12	18,0	85,0	Ø150
F 14	140,0	4 x M16	24,0	100,0	Ø175
F 16	165,0	4 x M20	30,0	130,0	Ø210
F 25	254,0	8 x M16	24,0	200,0	Ø285
F 30	298,0	8 x M20	30,0	230,0	Ø350

MAßTABELLE TYP KHF 510

MEASURING GUIDE TYPE KHF 510

NPS	Lw	L				L1			H		h1		h2		Ød		SW		Ød3			H5		R	Weight Kg			ISO 5211		
Class	150 300 600	150	300	600	150	300	600	150	300	600	150	300	150	300	150	300	150	300	150	300	600	150	300	600	150	300	600	150	300	600
1/2"	mm in	16,0 0,63	108,0 4,25	139,7 5,50	165,1 6,50	47,0 1,85	47,0 1,85	68,0 2,68	17,0 0,67	17,0 0,67	63,0 2,48	63,0 2,48	9,2 0,36	9,2 0,36	16,0 0,63	16,0 0,63	12,4 0,49	12,4 0,49	90,0 3,54	90,0 3,54	105,0 4,13	128,0 5,04	160,0 6,30		3,0 0,08	3,7 0,09	5,0 0,20	F05	F05	F05
3/4"	mm in	19,0 0,75	117,3 4,62	152,4 6,00	190,5 7,50	48,0 1,89	48,0 1,89	68,0 2,68	17,0 0,67	17,0 0,67	63,0 2,48	63,0 2,48	9,2 0,36	9,2 0,36	16,0 0,63	16,0 0,63	12,4 0,49	12,4 0,49	90,0 3,54	90,0 3,54	105,0 4,13	128,0 5,04	160,0 6,30		3,3 0,09	4,7 0,12	6,2 0,25	F05	F05	F05
1"	mm in	25,0 0,98	127,0 5,00	165,1 6,50	215,9 8,50	48,0 1,89	63,0 2,48	78,0 3,07	17,0 0,67	17,0 0,67	63,0 2,48	63,0 2,48	9,2 0,36	9,2 0,36	16,0 0,63	16,0 0,63	12,4 0,49	12,4 0,49	90,0 3,54	90,0 3,54	105,0 4,13	128,0 5,04	160,0 6,30		3,7 0,09	5,3 0,21	7,1 0,28	F05	F05	F05
1 1/2"	mm in	38,1 1,50	165,1 6,50	190,5 7,50	241,3 9,50	67,5 2,66	67,5 2,66	102,5 4,04	29,0 1,14	29,0 1,14	80,0 3,15	80,0 3,15	14,0 0,55	14,0 0,55	20,0 0,79	20,0 0,79	14,0 0,55	14,0 0,55	120,0 4,72	120,0 4,72	130,0 5,12	147,0 5,79	215,0 8,46		7,4 0,29	10,6 0,42	13,5 0,53	F07	F07	F07
2"	mm in	50,0 1,97	177,8 7,00	215,9 8,50	292,1 11,50	70,0 2,76	77,5 3,05	112,5 4,43	33,0 1,30	33,0 1,30	93,0 3,66	93,0 3,66	18,0 0,71	18,0 0,71	20,0 0,79	20,0 0,79	14,0 0,55	14,0 0,55	152,0 5,98	155,0 6,10	160,0 6,30	159,0 6,26	215,0 8,46		12,1 0,48	15,4 0,61	19,8 0,78	F07	F07	F07
3"	mm in	76,1 3,00	203,2 8,00	282,5 11,12	355,6 14,00	82,5 3,25	102,5 4,04	142,5 5,61	37,0 1,46	37,0 1,46	124,5 4,90	124,5 4,90	20,0 0,79	20,0 0,79	25,0 0,98	25,0 0,98	19,3 0,76	19,3 0,76	202,0 7,95	202,0 7,95	215,0 8,46	212,0 8,35	300,0 11,81		24,5 0,97	32,4 1,27	41,7 1,64	F10	F10	F10
4"	mm in	100,0 3,94	228,6 9,00	304,8 12,00	431,8 17,00	94,5 3,72	117,5 4,63	162,5 6,40	37,0 1,46	37,0 1,46	141,0 5,55	141,0 5,55	20,0 0,79	20,0 0,79	25,0 0,98	25,0 0,98	19,3 0,76	19,3 0,76	235,0 9,25	238,0 9,37	253,0 9,96	228,0 8,98	300,0 11,81		36,1 1,42	48,7 1,92	75,5 2,97	F10	F10	F10
6"	mm in	150,0 5,91	393,7 15,50	403,4 15,88	558,8 22,00	175,0 6,89	195,0 7,68	210,0 8,27	55,0 2,17	55,0 2,17	242,5 9,55	242,5 9,55	42,0 1,65	42,0 1,65	44,0 1,73	44,0 1,73	32,0 1,26	32,0 1,26	320,0 12,60	320,0 12,60	365,0 14,37	301,0 11,85	800,0 31,50		97,2 3,83	115,2 4,54	186,3 7,33	F12	F12	F12
8"	mm in	200,0 7,87	457,2 18,00	501,7 19,75	660,4 26,00	210,0 8,27	235,0 9,25	255,0 10,04	55,0 2,17	81,0 3,19	280,0 11,02	280,0 11,02	42,0 1,65	72,0 2,83	44,0 1,73	70,0 2,76	32,0 1,26	50,0 1,97	397,0 15,63	405,0 15,94	470,0 18,50	338,0 13,31	800,0 31,50		165,1 6,50	197,2 7,76	352,9 13,89	F12	F12	F16
10"	mm in	250,0 9,84	533,4 21,00	568,5 22,38	787,4 31,00	245,0 9,65	275,0 10,83	310,0 12,20	61,0 2,40	81,0 3,19	330,0 12,99	337,0 13,27	51,0 2,01	72,0 2,83	48,0 1,89	70,0 2,76	36,0 1,42	50,0 1,97	487,0 19,17	505,0 19,88	540,0 21,26	-	-		255,5 10,06	329,6 12,95	596,0 23,47	F14	F16	F25
12"	mm in	300,0 11,81	609,6 24,00	647,7 25,50	838,2 33,00	270,0 10,63	305,0 12,01	360,0 14,17	61,0 2,40	120,0 4,72	365,0 14,37	460,0 18,11	51,0 2,01	99,0 3,90	48,0 1,89	98,0 3,86	36,0 1,42	75,0 2,95	570,0 22,44	580,0 22,83	640,0 25,20	-	-		362,9 14,29	457,2 17,99	934,0 36,94	F14	F16	F30

TYP KHF 510

weich dichtend
Explosionszeichnung

TYPE KHF 510

soft seats
Exploded View

Abb. I:
Schwimmende
Kugel,
NPS 1/2" bis
NPS 12"

Fig. I:
Floating
ball,
NPS 1/2" to
NPS 12"

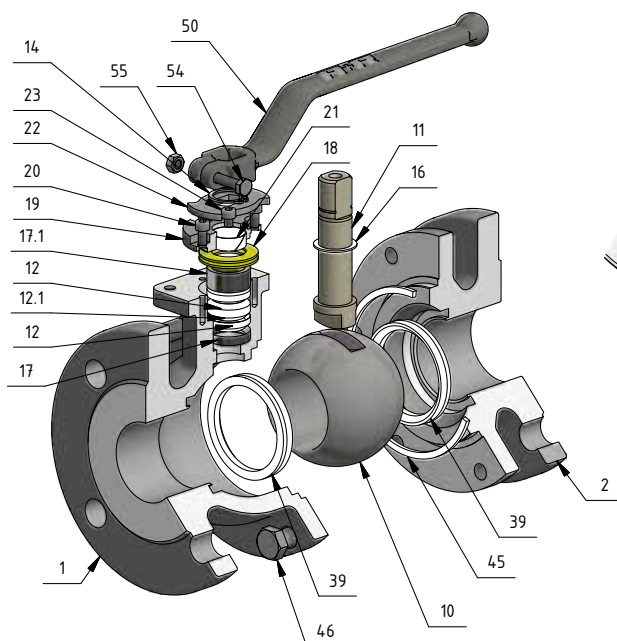
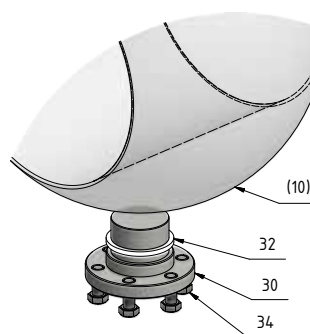


Abb. II:
Gestützte Kugel,
NPS 10" bis NPS 12"

Fig. II:
Supported ball,
NPS 10" to NPS 12"



STÜCKLISTE TYP KHF 510

BILL OF MATERIALS TYPE KHF 510

Positions Nr. / Item No.	Beschreibung	Item	Edelstahl Ausführung (ETE) stainless steel version	Stahl Ausführung (STE) carbon steel version
1	Gehäuse	Body	1.4408/ CF8M	1.0619/ WCB
2	Seitenteil	Side cap	1.4408/ CF8M	1.0619/ WCB
10	Kugel	Ball	1.4408/ CF8M	1.4308/ CF8
11	Schaltwelle	Stem	1.4401/ 316	1.4401/ 316
12	Dichtring ²	Stem seal ²	PTFE	PTFE
12.1	Dichtring ²	Stem seal ²	PTFE	PTFE
14	Sicherungsring	Safety ring	1.4310/ 301	1.4310/ 301
16	Gleitring ²	Thrust ring ²	PTFE	PTFE
17	Druckring	Ring	1.4404/ 316L	1.4404/ 316L
17.1	Druckring	Ring	1.4404/ 316L	1.4404/ 316L
18	Tellerfeder	Cup spring	1.4310/ 301/ 1.4568/ 631	1.4310/ 301/ 1.4568/ 631
19	Deckel	Cover	1.4408/ CF8M	1.4408/ CF8M
20	Zylinderschraube	Hex.-socket screw	A2-70/ 304	A2-70/ 304
21	Lager-band/ buchse ²	Bearing band/ bush ²	PTFE	PTFE
22	Anschlagscheibe	Stop disc	1.4301/ 304	1.4301/ 304
23	Zylinderschraube	Hex.-socket screw	A2-70/ 304	A2-70/ 304
30	Stützbolzen ¹	support Trunnion ¹	1.4401/ 316L	1.4404/ 316L
32	Dichtring Stützbolzen ^{1,2}	Trunnion seal ^{1,2}	PTFE	PTFE
34	Sechskantschraube ¹	Hex bolt ¹	A4-70/ 316	A2-70/ 304
39	Kugeldichtring ²	Ball seat ²	RPTFE	RPTFE
45	Gehäusedichtring ²	Body gasket ²	PTFE	PTFE
46	Sechskantschraube	Hex bolt	A4-70/ 316	A2-70/ 304
50	Handhebel	Handle	1.4308/ CF8	1.4308/ CF8
54	Sechskantschraube	Hex bolt	steel galvanized	steel galvanized
55	Sechskantmutter	Nut	steel galvanized	steel galvanized

¹ Nur bei gestützter Ausführung / only for ball supported design

² Empfohlene Ersatzteile/ recommended spare parts

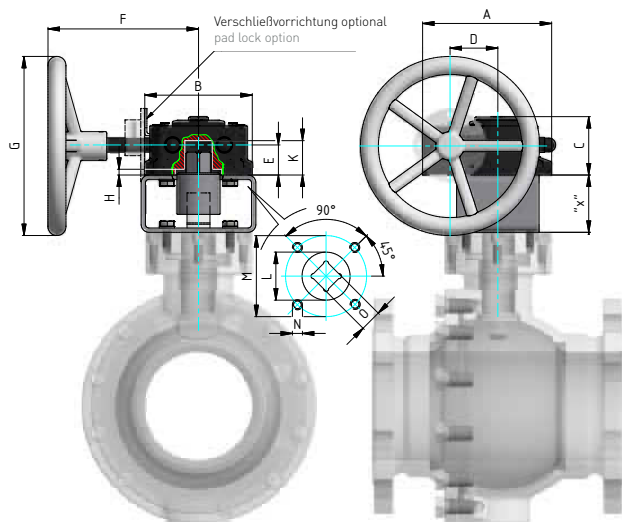
TYP KHF 510

weich dichtend
Zubehör

TYPE KHF 510

soft seats
Accessories

Handgetriebe Typ AR manual worm gear type AR



HANDGETRIEBE TYP AR

MANUAL WORM GEAR TYPE AR

Typ/ Type	max. torque	A	B	C	D	E	F	G	H	K	L	M	N	O	ISO 5211
AR 1	200 Nm	113,0	84,0	64,0	43,5	28,5	153,5	160,0	4,5	30,0	35,0	70,0	M8	17	F07
AR 2	800 Nm	185,0	135,0	90,5	68,8	42,5	267,5	250,0	2,5	50,0	60,0	125,0	M12	27	F12
AR 2,5	1500 Nm	206,0	156,0	97,0	84,0	45,0	328,0	500,0	2,0	60,0	85,0	140,0	M16	36	F14
AR 3	2000 Nm	236,0	180,0	100,0	96,5	50,0	340,0	500,0	2,0	65,0	85,0	140,0	M16	36	F14
AR 3,5	3000 Nm	279,0	250,0	117,5	117,5	48,5	380,0	600,0	2,0	75,0	115,0	165,0	M20	46	F16
AR 4	4000 Nm	326,0	282,0	128,0	137,5	54,5	424,0	600,0	3,5	75,0	130,0	165,0	M20	46	F16
AR 5	6500 Nm	340,0	282,0	128,0	137,5	54,5	456,0	600,0	3,5	75,0	130,0	254,0	M16	55	F25

BRÜCKENHÖHE "x" STANDARD

DIMENSION OF BRACKET "x" STANDARD

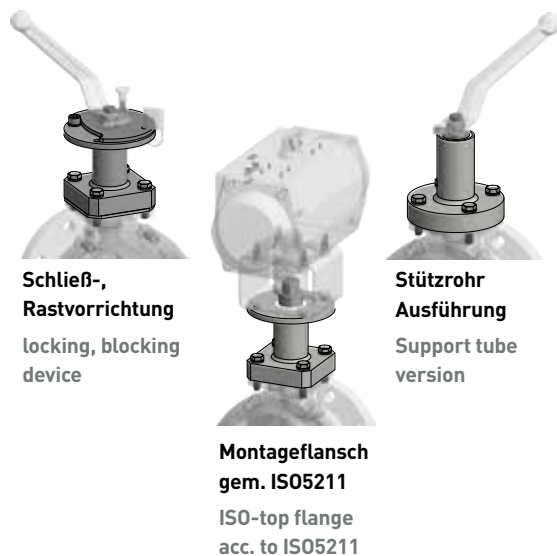
gear box	ball valve					
	ISO 5211	F 10	F 12	F 14	F 16	F 25
AR 1	F 07	80	80	-	-	-
AR 2	F 12	80	80	80	-	-
AR 2,5	F 14	-	80	80	-	-
AR 3	F 14	-	80	80	100	-
AR 3,5	F 14	-	80	80	100	200
AR 4	F 16	-	100	100	100	200
AR5	F 25	-	-	200	200	200

KONSTRUKTIONSMERKMALE:

- DGRL 2014/68/EU, AD-2000
- ASME B16.34
- TA-Luft
- Fire-Safe
- Leckagerate „A“ EN 12266-1 / Class VI FCI 70-2
- Schwimmende Kugel

DESIGN FEATURES:

- DGRL 2014/68/EU, AD-2000
- ASME B.16.34
- TA-Luft
- Fire-Safe
- Leckagerate „A“ EN 12266-1 / Class VI FCI 70-2
- Floating ball



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