BALLOSTAR KHA-F Flange design



Product details	 » PN 16/25/40/63/100, ASME CL150/300 » DN 15-125 and 1/2"-5" » Housing: Cast steel, rust and acid proof cast iron, duplex » Ball: Special materials on demand » Op. stem: Rust & acid proof steel 	G Ouentity 'n'					
Connections	Flange in acc. with DIN EN 1092-1 or ASME B 16.5						
General features	 » 3-piece ball valve with full bore » Floating ball, antistatic, lockable » Double tightness in both directions » Modular system components 						
Temperature	-196 °C to +400 °C (see pT diagram)	* Flange dimensions in accordance with DIN EN 1092-1 or ASME B 16.5					
Certificates	 » Leak-testing according ISO 5208 / ISO 14313:2007 – DBB » FS EN ISO 10497 + API 607 » TA LUFT (VDI 2440) » ISO 15848 » BAM Oxygen, GAS (ÖVGW, DVGW), SIL2 	Dimensions Face-to-face dimensions in acc. with EN 558-1, series 1 or dimensions in acc. with ANSI B16.10 CL 300					

Industries

District Heating | Steel | Power | Geothermal Energy | Oil & Gas | Chemical Industry | Pulp & Paper | Energy | Food & Beverage | Pharma | Mining | Metals | Aerospace | Water

AREAS OF UTILIZATION



Stuffing boxes PTFE FS LABP GRA GAS VIT FF PP MM SS W ΚK GG Gas O-rings & Graphite/Peek Aflas/Graphit TFE Labyri PURE PTFE/ Standard KFC Fire-Safe Gas KFC Fire-Safe Aflas Graphite/Peek Viton C70M PTFE Metal Standard KFC Metal special Viton Water / hot wate Mineral oil Heat-transfer oil Liquid gas / 1) cryogenic temperature Saturated steam Misc. gases Vacuum / full vacuum Hot steam (max. 300 °C) Ammonia Oxygen Standard utilization High number of cycles Frequent temperature changes Fire safety (Fire-Safe) Chemical industry obe Abrasive media Temperature range (°C *|+300 -196 | +300 196 | +300 -85 | +400 5 | +150 35/+125 60/+300 -60/+40 VDI 2440 (TA-Luft) + + + + + +++ ISO15848-1 ++ Certific DVGW/ÖVGW + (+) Fire-Safe ++ ++

Sealing elements

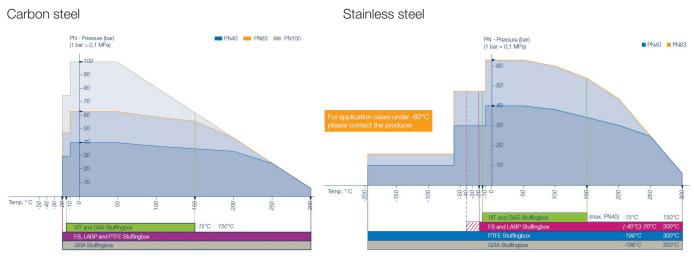
1) Combined with cryogenic temperature extension and sealing element * O-rings for less temperature optionally available.

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Pressure and temperature ranges / Technical data



P-T diagram - for the sealing elements FF, KK, GG and MM



For more P-T diagrams concerning different sealing materials and ASME please see the KLINGER Ballostar KHA brochure 2023

Part	ts list						
Pos.	Qu.		Name	M1 (VIII)	M2 (Xc)	M3 (Xd)	
1	1	Housing		1.0619	1.4408	1.4470	
2	1	Operating s	shaft	1.4104	1.4404	1.4462	
3	1	Ball		V4A		1.4462 / 1.4470	
4	2	Sealing ring	3		KFC-25		
5	2	Sealing element Fire Safe	a) support disc b) cover disc c) U-sleeve d) U-sleeve	1.4 1.4		1.4462	
6	2	Support rin	,	1,4401			
7	2	Bearing dis		Peek			
8	1	Sealing bus		Graphite			
9	1	Sealing inse		1.4401			
10	1	O-Ring		FEPM A75H			
11	1	O-Ring					
12	1	Washer		1.4401			
13	1	Washer		1.4401			
14	1	Belleville wa	asher		1.4310		
15	1	Gland nut		1.4404			
16	2	Gasket		KLINGERSIL C-44		1430	
17	2	Flange cap		1.0619 / P235GH	1.4408 / 1.4470	1.4462 / 1.4470	
17	2	Welding en	ds	1.0619	1.4408	1.4462	
	2	Threaded connection				1.4402	
18	8/12/16	Hexagon n	ut	A4-70			
19	1	1 Socket screw			A4-70		

Technical data - M1 (VIII) = Carbon steel, M2 (Xc) = Stainless steel, M3 (d) = Duplex

		Dimensions									Pressure level		Head flange	M/
	DN	MTL	□A	н	Hs	H1	G	М	L (EN)	L (ASME)	M1 (VIII)	M2 (Xc)	size acc. to ISO 5211	Weight [kg]
15	1/2"	26.4	42	35.0	43.5	83.0	130	M6	130	140	100	63	F04	2.3
20	3/4"	35.2	42	46.5	57.0	96.0	160	M8	150	152	100	63	F04	3.5
25	1"	41.5	42	50.0	60.5	100.0	160	M8	160	165	63	40	F04	4.3
32	1-1/4"	49.5	50	65.0	77.7	107.5	252	M10	180	178	63	40	F05	6.8
40	1-1/2"	63.0	50	72.5	85.2	114.7	252	M12	200	190	63	40	F05	9.0
50	2"	77.5	70	90.0	106.2	136.2	310	M14	230	216	40	40	F07	13.5
65	2-1/2"	93.5	70	100.0	116.2	146.2	310	M12	290	241	40	40	F07	18.0
80	3"	111.4	102	121.5	143.0	165.0	500	M16	310	282	40	40	F10	28.8
100	4"	131.6	102	135.0	156.5	178.5	500	M16	350	305	40	40	F10	40.6
125	5"	171.4	125	175.0	202.5	212.5	650	M16	400	381	40	40	F12	66.0