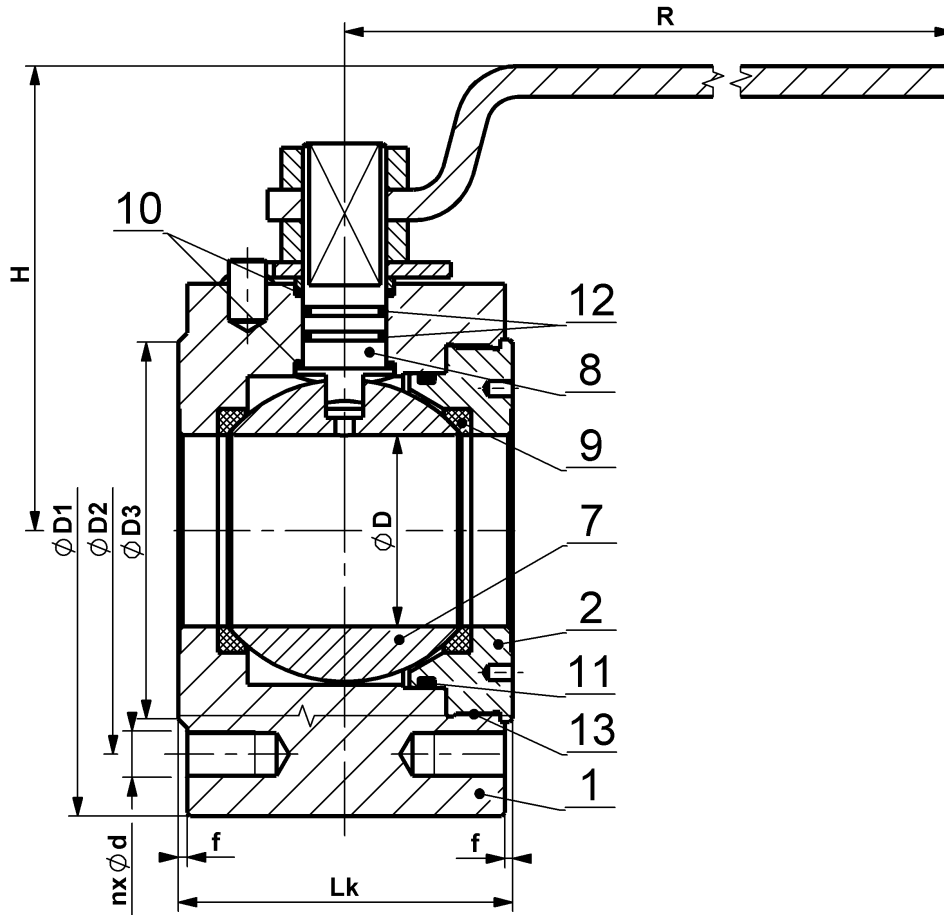


WAFER-TYPE BALL VALVE KM 9107.X-AF

NPS ½" – 4" (DN 15–100) Class 150–1500



Materials

Type KM 9107.X-AF		Material			
		Carbon steel		Stainless steel	
Position	Component	X=1 For common temperatures from -20°C to +200°C	X=5 For low temperatures from -46°C to +200°C	X=3 For temperatures from -50°C to +200°C	X=4 For temperatures from -50°C to +200°C
1	Body	1.0577, S355J2	1.0565, A350 LF2	1.4541, A182 F321	1.4571, A182 F316
2	Cover				
7	Ball	1.4571, A182 F316, A351 CF8M, ČSN 17 027			
8	Stem	1.4021, ČSN 17 027	1.4541, A182 F321	1.4541, A182 F321	1.4571, A182 F316
9	Seat	PTFE, PTFE+C, PEEK			
10	Gasket	Graphite			
11	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
12	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
13	Sealing	Graphite			

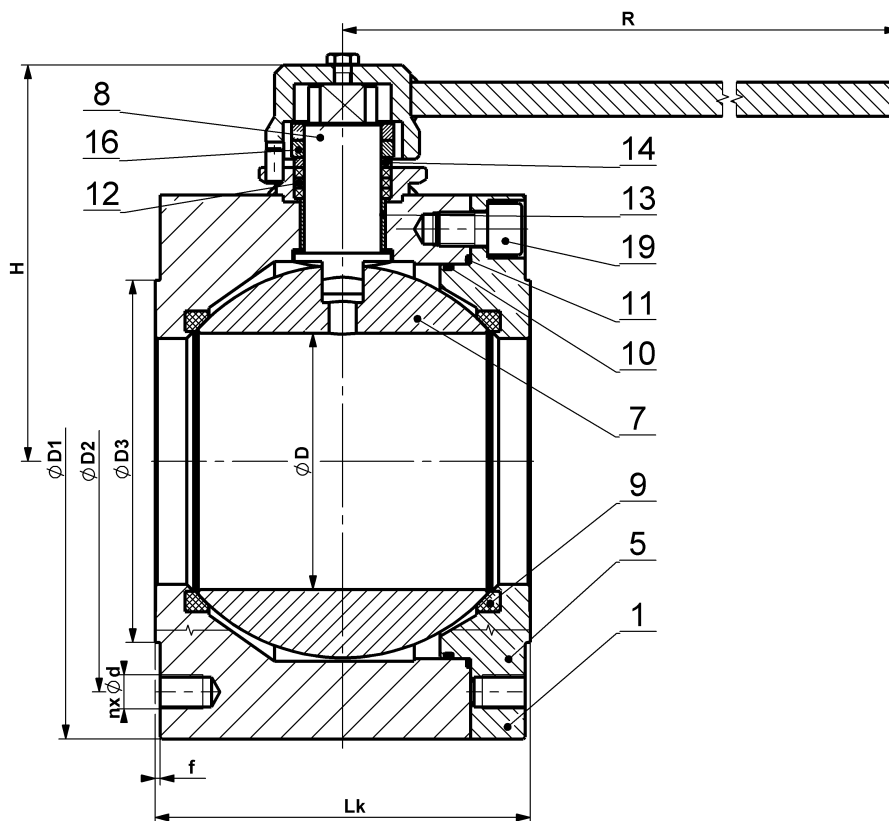
Other materials upon request (P265GH, 1.4306, 1.4462 etc.).

Operating temperature range can be reduced based on selected sealing materials.

WAFER-TYPE BALL VALVE

KM 9107.X-SB-AF

NPS 5" – 10" Class 150–1500



Materials

Type KM 9107.X-SB-AF		Material			
		Carbon steel		Stainless steel	
Position	Component	X=1 For common temperatures from -20°C to +200°C	X=5 For low temperatures from -46°C to +200°C	X=3 For temperatures from -50°C to +200°C	X=4 For temperatures from -50°C to +200°C
1	Body	1.0577, S355J2	1.0565, A350 LF2	1.4541, A182 F321	1.4571, A182 F316
5	Cover				
7	Ball	1.4571, A182 F316, A351 CF8M, ČSN 17 027			
8	Stem	1.4021, ČSN 17 027	1.4541, A182 F321	1.4541, A182 F321	1.4571, A182 F316
9	Seat	PTFE, PTFE+C, PEEK			
10	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
11	Gasket	Graphite			
12	Gasket	Graphite			
13	Bearing	KU			
14	Gland cover	1.4021, ČSN 17 027			
16	Nut	Cl. 8, A2-70, A194 Gr. 2H	A2-70, A194 Gr. 7	A2-70, A194 Gr. 8	A2-70, A194 Gr. 8
19	Bolt	8.8, A2-70, A193 B7	A2-70, A320L7	A2-70, A193 B8	A2-70, A193 B8

Other materials upon request (P265GH, 1.4306, 1.4462 etc.).

Operating temperature range can be reduced based on selected sealing materials.

Dimensions and Weights

	NPS	DN	øD	øD1	øD2	øD3	f	n	ød	Lk	H	R	Hm / W
Class 150	½"	15	11,5	89	60,3	35	1,6	4	½-13 UNC				
	¾"	20	17,5	98	69,8	42,9	1,6	4	½-13 UNC	38	100	100	1,9
	1"	25	24	108	79,4	50,8	1,6	4	½-13 UNC	56	116	150	3,5
	1 ¼"	32	30,5	117	88,9	63,5	1,6	4	½-13 UNC				
	1 ½"	40	37	127	98,4	73	1,6	4	½-13 UNC	70	123	350	6
	2"	50	50	152	120,6	92	1,6	4	⅝-11 UNC	86	134,5	250	10,2
	2 ½"	65	62	178	139,7	104,6	1,6	4	⅝-11 UNC				
	3"	80	75	190	152,4	127	1,6	4	⅝-11 UNC	120	162,5	350	21,5
	4"	100	100	229	190,5	157,2	1,6	8	⅝-11 UNC	160	177,5	450	41,5
	5"	125	125	255	215,9	185,7	1,6	8	¾-10 UNC				
	6"	150	150	279	241,3	215,9	1,6	8	¾-10 UNC				
	8" *	200*	200	343	298,4	269,7	1,6	8	¾-10 UNC				
10" **	250**	250	405	362	323,8	1,6	12	⅞-9 UNC					
Class 300	½"	15	12,5	95	66,5	35,1	1,6	4	½-13 UNC				
	¾"	20	17,5	117	82,6	42,9	1,6	4	⅝-11 UNC				
	1"	25	24	124	88,9	50,8	1,6	4	⅝-11 UNC				
	1 ¼"	32	30,5	133	98,6	63,5	1,6	4	⅝-11 UNC				
	1 ½"	40	37	155,5	114,3	73,2	1,6	4	¾-10 UNC				
	2"	50	50	165	127	91,9	1,6	8	⅝-11 UNC				
	2 ½"	65	62	190,5	149,4	104,6	1,6	8	¾-10 UNC				
	3"	80	75	209	168,1	127	1,6	8	¾-10 UNC				
	4"	100	100	254	200,2	157,2	1,6	8	¾-10 UNC				
	5"	125	125	280	235	185,7	1,6	8	¾-10 UNC				
	6" *	150*	150	317,5	269,7	215,9	1,6	12	¾-10 UNC				
	8" **	200**	200	381	330,2	269,7	1,6	12	⅞-9 UNC				
10" **	250**	200	445	387,4	323,8	1,6	16	1-8 UNC					
Class 600	½"	15	12,5	95	66,5	35,1	6,4	4	½-13 UNC				
	¾"	20	17,5	117	82,6	42,9	6,4	4	⅝-11 UNC				
	1"	25	24	124	88,9	50,8	6,4	4	⅝-11 UNC				
	1 ¼"	32	30,5	133	98,6	63,5	6,4	4	⅝-11 UNC				
	1 ½"	40	37	155,5	114,3	73,2	6,4	4	¾-10 UNC				
	2"	50	50	165	127	91,9	6,4	8	⅝-11 UNC				
	2 ½"	65	62	190,5	149,4	104,6	6,4	8	¾-10 UNC				
	3"	80	75	209	168,1	127	6,4	8	¾-10 UNC				
	4" *	100*	100	273	216	157,2	6,4	8	⅞-9 UNC				
	5" **	125**	125	330	266,7	185,7	6,4	8	1-8 UNC				
	6" **	150**	150	355,6	292,1	215,9	6,4	12	1-8 UNC				

* = gearbox recommended, ** = with gearbox only. Dimensions in [mm], weights in [kg].
Dimensions for Class 900, 1500 upon request.

Application

Isolating valve designed to fully open or close the service fluid flow. It is not designed to be used for throttling or regulating purposes. For temperatures from -50 °C to +200 °C.

Suitable for:

- water, steam, gas, oil, crude oil, acid, alkali and other liquids and gases without mechanical impurities.

Approved for:

- fluids in groups 1 (hazardous) and 2 according to 2014/68/EU – category III.

Characteristics

- floating ball,
- full bore,
- anti-static design,
- fire-safe design (fire resistance),
- stem secured against release (anti-blow-out).

Optional Accessories, Adjustments and Services

- different face-to-face dimensions or end combinations,
- connection for actuator according to ISO 5211,
- heating jacket – for keeping the fluid liquid,
- lockable handle with a padlock,
- extended stem – e.g. for the reason of insulation of the valve and pipeline,
- execution according to TA-Luft or EN 15848-1,
- limit switches,
- documentation according to EN 10204 3.2,
- special adjustments according to customer requests,
- design according to standard NACE MR 0175 or ISO 15156 for fluids with hydrogen sulfide (H₂S),
- degreased for **Oxygen** service,
- design for application in potentially explosive atmospheres according to the directive 2014/34/EU (ATEX):
 - I M1 Ex h I Ma,
 - II 1G Ex h IIC T6...T1 Ga,
 - II 1D Ex h IIIC TX °C Da.

Operation

- hand lever,
- hand wheel with worm gear,
- pneumatic actuator,
- electric actuator.

Compliance with standards

- API 608,
- EN 12516-1,
- ANSI B 16.5,
- EN ISO 5211,
- EN ISO 80079-36 (ATEX) – II 2G Ex h IIB T6...T3 Gb,
- EN ISO 10497 (API 607),
- EN 61508-1, 2 – SIL 2.

Testing

- API 598 or API Spec 6D – zero leakage.

Type designation

