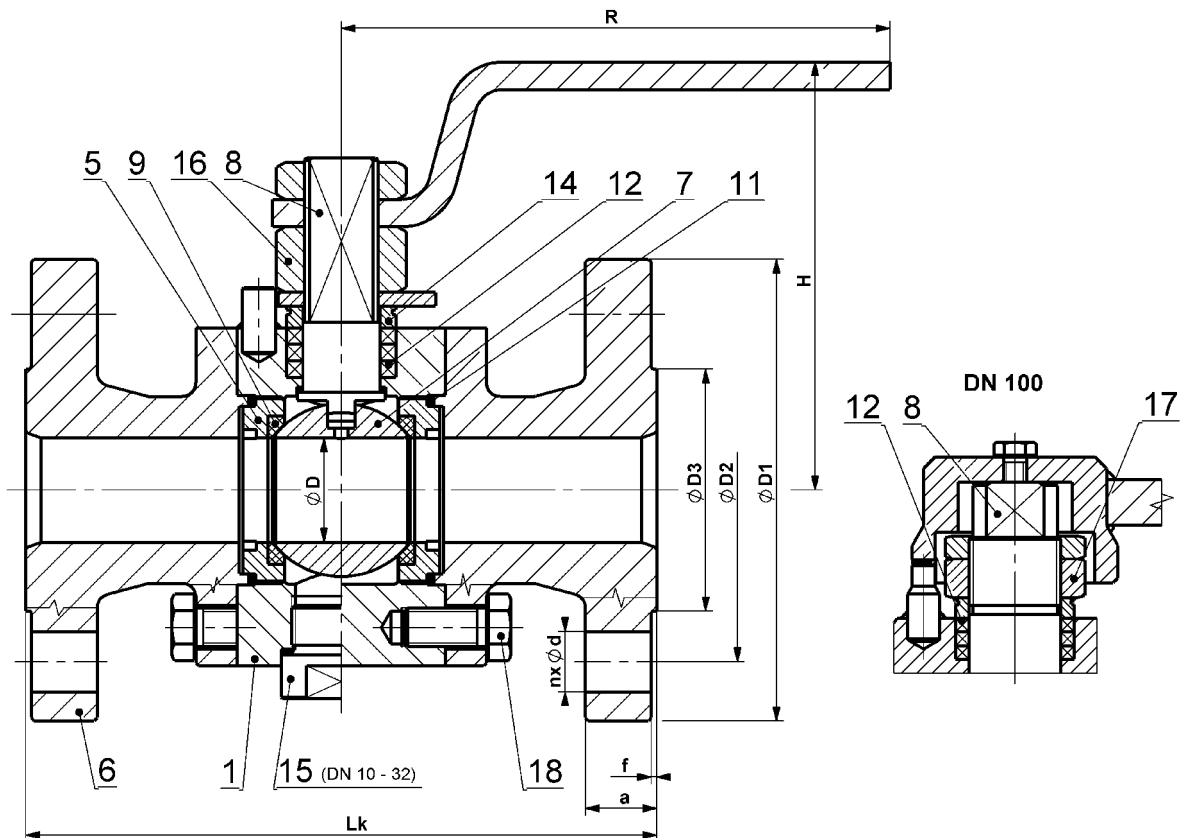


FLANGED BALL VALVE FOR HIGH TEMPERATURES

KM 9108.X-HT

DN 10–100 PN 16–160



Materials

Type KM 9108.X-HT		Material				
Position	Component	Carbon steel		Alloyed steel	Stainless steel	
		X=1 For temperatures from -20 °C to +300 °C	X=5 For temperatures from -46 °C to +400 °C	X=8 ¹⁾ For temperatures from 0 °C to +500 °C	X=3 ¹⁾ For temperatures from -60 °C to +500 °C	X=4 ¹⁾ For temperatures from -60 °C to +500 °C
1	Body	1.0577, S355J2	1.0565, A350 LF2, P355NH	1.5415, 16Mo3	1.4541, A182 F321	1.4571, A182 F316
5	Seat body					
6	Cover	1.4021, ČSN 17 027	1.4021, ČSN 17 027	1.4923	1.4021 ²⁾ , ČSN 17 027 ²⁾ , 1.4923	1.4571, A182 F316
7	Ball		1.4541, A182 F321			
8	Stem	Carbon+Sb				
9	Seat	Graphite				
11	Gasket	Graphite				
12	Packing	Graphite				
14	Gland cover	1.4021, ČSN 17 027				
15	Screw plug	1.0577, S355J2	1.0565, A350 LF2	1.5415, 16Mo3	1.4541, A182 F321	1.4571, A182 F316
16	Nut	Cl.8, A2-70, A194 Gr. 2H	A2-70, A194 Gr. 7	A2-70 ²⁾ , A194 Gr. 2H	A2-70 ²⁾ , A194 Gr. 8	
17	Nut	1.4021, ČSN 17 027		1.4923	1.4021 ²⁾ , ČSN 17 027 ²⁾ , 1.4923	
18	Bolt	8.8, A2-70, A193 B7	A2-70, A320 L7	A193 B7, 1.4980	A2-70 ²⁾ , A193 B8 ²⁾ , 1.4980	

¹⁾ = for temperatures above +400 °C for non-oxidizing fluids only

²⁾ = material up to +400 °C only.

Other materials upon request (P265GH, 1.4306, 1.4462, 1.7335 etc.).

Dimensions and weights

PN 16, 25, 40	DN	øD	øD2	øD3	f	a	n	ød	Lk	Lk=F1	H	R	Hm / W	
	10	9,5	90	60	40	2	16	4	14	150	130	103	150	2,7
	15	14	95	65	45	2	16	4	14	155	130	109	200	3,6
	20	19	105	75	58	2	18	4	14	160	150	121	250	5,7
	25	25	115	85	68	2	18	4	14	170	160	124	250	7,1
	32	30	140	100	78	2	18	4	18		180	135,5	250	10
	40	38	150	110	88	2	18	4	18	220	200	142	250	12,2
	50	47	165	125	102	2	20	4	18		230	163	350	20
	65	62	185	145	122	2	22	8	18		290	158	450	30,5
80	76	200	160	138	2	24	8	18		310	168	450	39	

PN 16	DN	øD	øD1	øD2	øD3	f	a	n	ød	Lk	Lk=F1	H	R	Hm / W
	100	95	220	180	158	2	20	8	18		350	228	630	59

PN 25 PN 40	DN	øD	øD1	øD2	øD3	f	a	n	ød	Lk	Lk=F1	H	R	Hm / W
	100	95	235	190	162	2	24	8	22		350	200	540	74

PN 63	DN	øD	øD1	øD2	øD3	f	a	n	ød	Lk	Lk=F1	H	R	Hm / W
	10	9,5	100	70	40	2	20	4	14	160		105,5	200	4,4
	15	14	105	75	45	2	20	4	14	150		108	200	5,2
	20	19	130	90	58	2	22	4	18					
	25	25	140	100	68	2	24	4	18	180		126	250	9,6
	32	30	155	110	78	3	24	4	22	200		138	250	13,4
	40	38	170	125	88	2	26	4	22	220		143	250	16,7
	50	47	180	135	102	2	26	4	22		230	163	350	22,4
	65	62	205	160	122	2	26	8	22		310	156	545	53
80	76	215	170	138	2	28	8	22						
100*	95	250	200	162	2	30	8	26						

PN 100	DN	øD	øD1	øD2	øD3	f	a	n	ød	Lk	Lk=F1	H	R	Hm / W
	10	9,5	100	70	40	2	20	4	14	160		105,5	200	4,4
	15	14	105	75	45	2	20	4	14	150		108	200	5,2
	20	19	130	90	58	2	22	4	18					
	25	25	140	100	68	2	24	4	18	180		124	250	9,8
	32	30	155	110	78	2	24	4	22	200		138	250	13,4
	40	38	170	125	88	2	26	4	22	230		156	350	20,5
	50	47	195	145	102	2	28	4	26	270		163	450	30
	65	62	220	170	122	2	30	8	26					
80*	76	230	180	138	2	32	8	26						
100**	95	265	210	162	2	36	8	30						

* = gearbox recommended, ** = with gearbox only. Overall length F1 is preferred (if specified). Dimensions in [mm], weights in [kg]. Weight shown is valid for lengths marked in bold. Dimensions for PN 160 upon request.

Type designation

KM 9108.X-HT

Type of KE-ARM valve – straight ball valve

Control:

0 = lever

3 = gear box or connection for actuator

Type series – for high temperatures

Material – according to table

Connection to pipeline:

8 = flanged

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 up to +500 °C (for temperatures above +400 °C for non-oxidizing fluids only).

Suitable for:

- water, steam, gas, oil, heat transfer fluids and other liquids and gases without mechanical impurities.

Approved for:

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

Characteristics

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

Optional accessories, adjustments and services

- different face-to-face dimensions or end combinations,
- adaptation of face form (Groove, Tongue, Spigot, Recess, O-ring groove, RTJ),
- connection for actuator according to ISO 5211,
- fire-safe design – fire resistance in accordance with EN ISO 10497 (API 607),
- 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,
- design 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.

Operation

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

Compliance with standards

- EN 1983,
- EN 12516-1,
- EN 1092-1,
- EN 558-1 series 1, or not standardized,
- EN ISO 5211,
- EN 13463-1 (ATEX) – II 1 GD Ex IIC TX, I M1.

Testing

- EN 12266-1, leakage rate A – zero leakage.



Pressure-temperature graph

