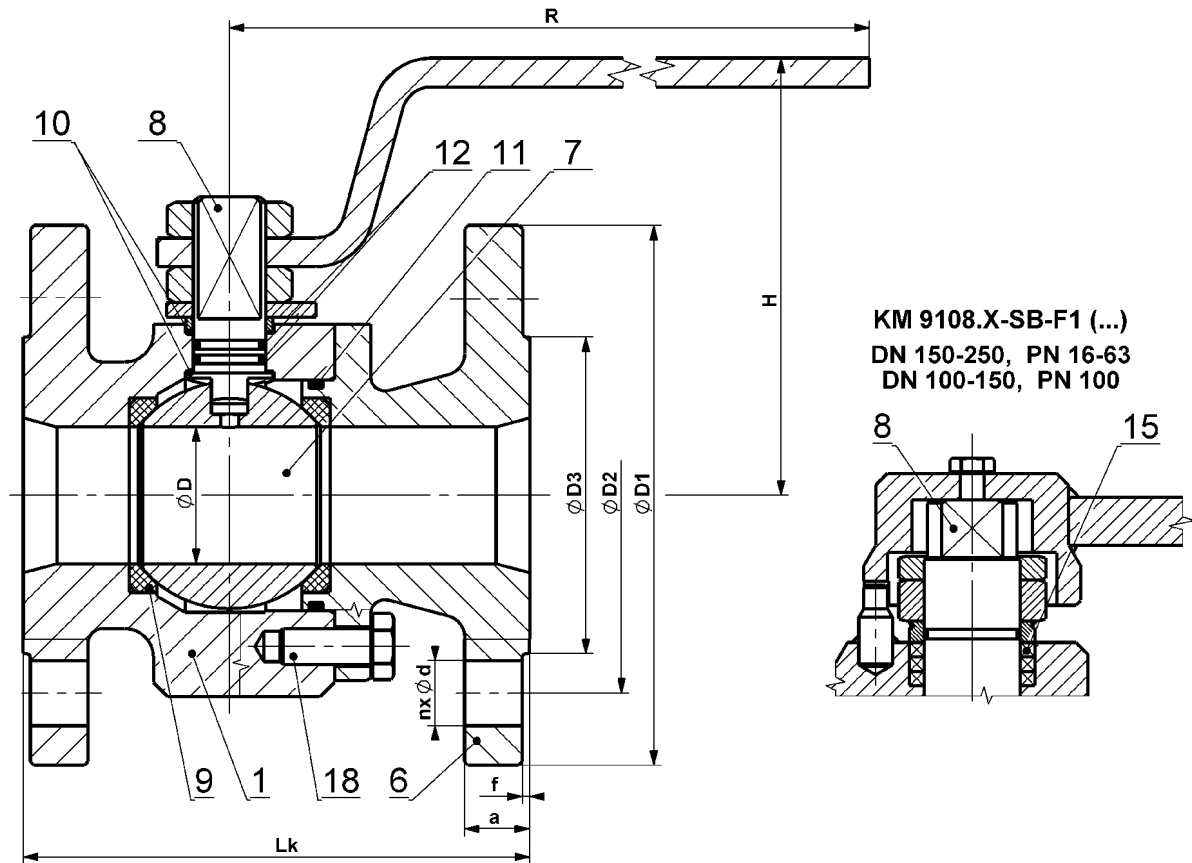


FLANGED BALL VALVE

KM 9108.X-F1
KM 9108.X-SB-F1
DN 10–250 PN 16–250



Materials

KM 9108.X-F1 KM 9108.X-SB-F1		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
6	Cover				
7	Ball	1.4571, A182 F316, A351 CF8M, ČSN 17 027, 1.4021			
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	PTFE+C, PEEK			
11	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
12	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
15	Packing	Graphite			
18	Bolt	8.8, A2-70, A193 B7	A2-70, A320 L7	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

	DN	øD	øD1	øD2	øD3	f	a	n	d	Lk-02	Lk-F1	Lk-F4	Lk-F5	Lk-F7	H	R	Hm / W
PN 16, 25, 40	10	9,5	90	60	40	2	16	4	14		130				83	100	2,4
	15	14	95	65	45	2	16	4	14		130	115			89	100	2,5
	20	20	105	75	58	2	18	4	14		150	120			94	100	3,9
	25	25	115	85	68	2	18	4	14		160	125			104	150	5,4
	32	30	140	100	78	2	18	4	18		180	130			109	150	7,3
	40	38	150	110	88	2	18	4	18	170	200	140			123	250	9,5
	50	47	165	125	102	2	20	4	18	180	230	150			132	250	13
	65	62	185	145	122	2	22	8	18	200	290	170			153	350	20,3
80	76	200	160	138	2	24	8	18	210	310	180			165	350	24,2	
PN 16	100	98	220	180	158	2	20	8	18	230	350	190			165	450	33
	125	119	250	210	188	2	22	8	18		400		325		202	550	72
	150	150	285	240	212	2	22	8	22		480		350		230	540	102
	200*	200	340	295	268	2	24	12	22		600		400		278	550	196
	250**	250	405	344	320	2	26	12	26		730		450		-	-	
PN 25, 40	100	98	235	190	162	2	24	8	22	230	350	190			175	450	41,5
	125	119	270	220	188	2	26	8	26		400		325		210	545	75
	150*	150	300	250	218	2	28	8	26		480		350	450	230	540	102
PN 25	200**	200	360	312	278	2	30	12	26		600		400	550	-	-	196
	250**	250	425	370	335	2	32	12	30		730		450	650	-	-	
PN 40	200**	200	375	320	285	2	34	12	30		600		400	550	-	-	228
	250**	250	450	385	345	2	38	12	33		730		450	650	-	-	
PN 63, 100	10	9,5	100	70	40	2	20	4	14		130				82	100	3,1
	15	14	105	75	45	2	20	4	14		130				89	100	3,9
	20	19	130	90	58	2	22	4	18		150				95	200	6,2
	25	25	140	100	68	2	24	4	18		160				105	150	7,8
	32	30	155	110	78	2	24	4	22		180				113	250	11,3
	40	38	170	125	88	2	26	4	22		200				134	350	17,3
PN 63	50	47	180	135	102	2	26	4	22		230				131	250	19.1
	65	62	205	160	122	2	26	8	22		290				153.5	350	
	80	76	215	170	138	2	28	8	22		310				152	450	39
	100	98	250	200	162	2	30	8	26		350				185	630	65
	125*	119	295	240	188	2	34	8	30		400			400	240	544	125
	150**	150	345	280	218	2	36	8	33		480		350	450	-	-	160
	200**	195	415	345	285	2	42	12	36		600	500		550	-	-	342
	250**	250	470	400	345	2	46	12	36		730	600			-	-	460
PN 100	50	47	195	145	102	2	28	4	26		230				144	350	24.5
	65	62	220	170	122	2	30	8	26		290				161	630	40.5
	80	76	230	180	138	2	32	8	26		310				170	630	51
	100*	98	265	210	162	2	36	8	30		350						
	125**	119	315	250	188	2	40	8	33		400			400	-	-	150
	150**	150	355	290	218	2	44	12	33		480		350	450	-	-	180

* = gearbox recommended, ** = with gearbox only. Overall lengths marked in bold are preferred.
Dimensions in [mm], weights in [kg]. Weight shown is valid for lengths marked in bold.
Dimensions for PN 160, 250 upon request.

Dimensions and weights

	DN	øD	øD1	øD2	øD3	f	a	n	d	Lk=F1	Lk=F2				H	R	Hm / W
PN 160	10	9.5	100	70	40	2	20	4	14								
	15	13	105	75	45	2	20	4	14	130					73	115	4.3
	25	24	140	100	68	2	24	4	18	160					111	250	10.2
	40	38	170	125	88	2	28	4	22	200					142	350	19.6
	50	47	195	145	102	2	30	4	26	230					147	350	27
	65*	62	220	170	122	2	34	8	26	290					165	630	46.7
	80**	76	230	180	138	2	36	8	26		380						68
	100**	100	265	210	162	2	40	8	30		430						161
	125**		315	250	188	2	44	8	33								
	150**	150	355	290	218	2	50	12	33	480							

* = gearbox recommended, ** = with gearbox only. Overall lengths marked in bold are preferred. Dimensions in [mm], weights in [kg]. Weight shown is valid for lengths marked in bold. Dimensions for PN 160, 250 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,
- 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,
- 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,
- 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 IIC TX °C Da.

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, or not standardized,
- EN ISO 5211,
- EN ISO 80079-36 (ATEX) – II 1G Ex h IIB T6...T1 Ga,
- EN 61508-1, 2 – SIL 2.

Testing

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

Type designation

KM 9 1 0 8 . X - F 1

Type of KE-ARM valve – straight ball valve
Control:
0 = lever
3 = gear box or adjustment for actuator

Overall length:
F1 = series 1 according to EN 558 (F1 according to DIN 3202)
F2 = series 2 according to EN 558 (F2 according to DIN 3202)
F4 = series 14 according to EN 558 (F4 according to DIN 3202)
F5 = series 15 according to EN 558 (F5 according to DIN 3202)
F6 = series 48 according to EN 558 (F6 according to DIN 3202)
F7 = series 28 according to EN 558 (F7 according to DIN 3202)
N = not standardized
Material – according to table
Connection to pipeline:
8 = flanged