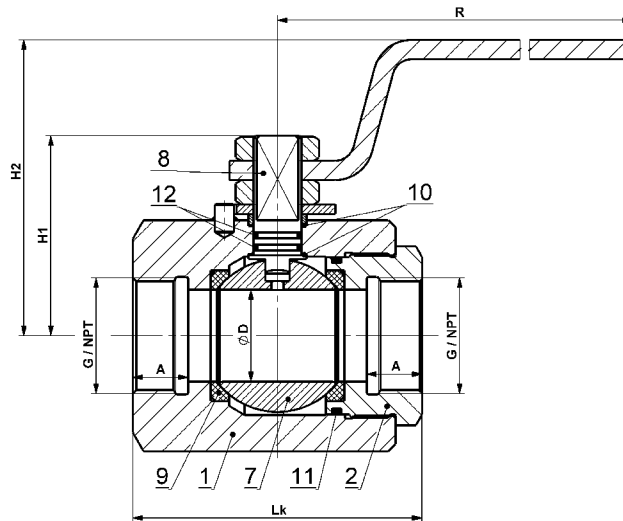


THREADED END BALL VALVE
KM 9101.X-01 – connecting thread G
KM 9101.X-02 – connecting thread NPT
DN 10–50 PN 16–250



Materials

Type KM 9101.X-01 Type KM 9101.X-02		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	Socket				
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	PTFE+C, PEEK			
11	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
12	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			

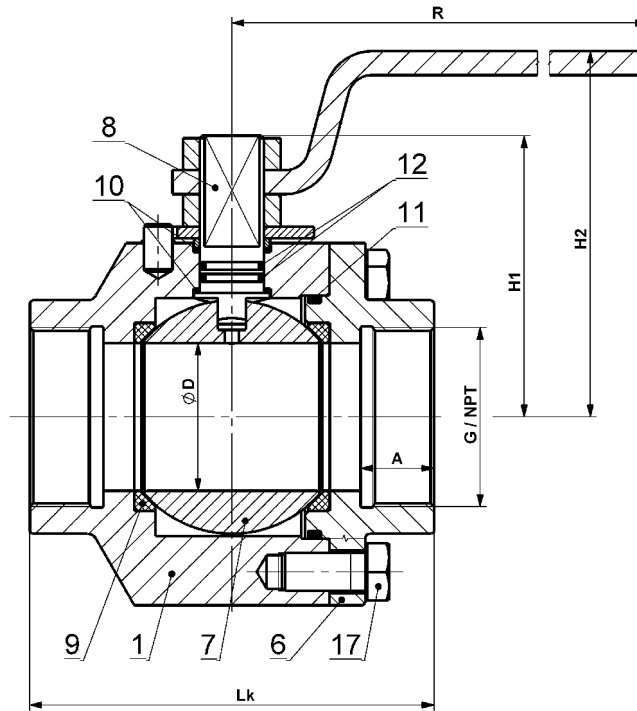
Other materials upon request (P265GH, 1.4306, 1.4462 etc.).
Operating temperature range can be reduced based on selected sealing materials.

Dimensions and Weights

PN 16, 25, 40, 63, 100	DN	øD	G	NPT	A	Lk	S1	S2	H1	H2	R	Hm / W
	10	9,5	3/8"	3/8-18	13	60	36	27	37	63	115	0,7
	15	14	1/2"	1/2-14	15	75	48	34	44	70	115	1,2
	20	19	3/4"	3/4-14	16,5	80	50	36	50	75	120	1,5
	25	25	1"	1-11,5	19,5	90	60	41	62	104	150	2,5
	32	30	1 1/4"	1 1/4-11,5	21,5	110	60	55	66	108	150	3,2
	40	38	1 1/2"	1 1/2-11,5	23	120	75	65	83	121	250	5,5
	50	47	2"	2-11,5	26	140	98	75	90	129	250	7,8

Dimensions in [mm], weights in [kg]. S1 / S2 – Widths across flats for wrench on body / socket.
Dimensions for PN 160, 250 upon request.

DN 65–100 PN 16–160



Materials

Type KM 9101.X-01 Type KM 9101.X-02		Material			
Position	Component	Carbon steel		Stainless steel	
		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	Socket				
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	PTFE+C, PEEK			
11	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
12	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
17	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

PN 16, 25 PN 40, 63	DN	øD	G	NPT	A	Lk	H1	H2	R	Hm / W
	65	62	2 ½"	2 ½-8	31	170	119	155	350	17.2
	80	76	3"	3-8	34	180	140	153	450	23
	100	98	4"	4-8	40	230	165	178	630	26
PN 100	DN	øD	G	NPT	A	Lk	H1	H2	R	Hm / W
	65	62	2 ½"	2 ½-8	31	170	131	144	450	20.3
	80	76	3"	3-8	34	185	153	172	630	25
	100*	98	4"	4-8	40	235	168	185	630	31

*= gearbox recommended. Dimensions in [mm], weights in [kg]. Dimensions for PN 160 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).

Operation

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

Compliance with standards

- EN 1983,
- EN 12516-1,
- EN 228-1, or ANSI B 1.20.1,
- DIN 3357, 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.

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,
- regulating orifice – for flow regulation depending on turning of lever,
- 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 IIIC TX °C Da.

Type designation

