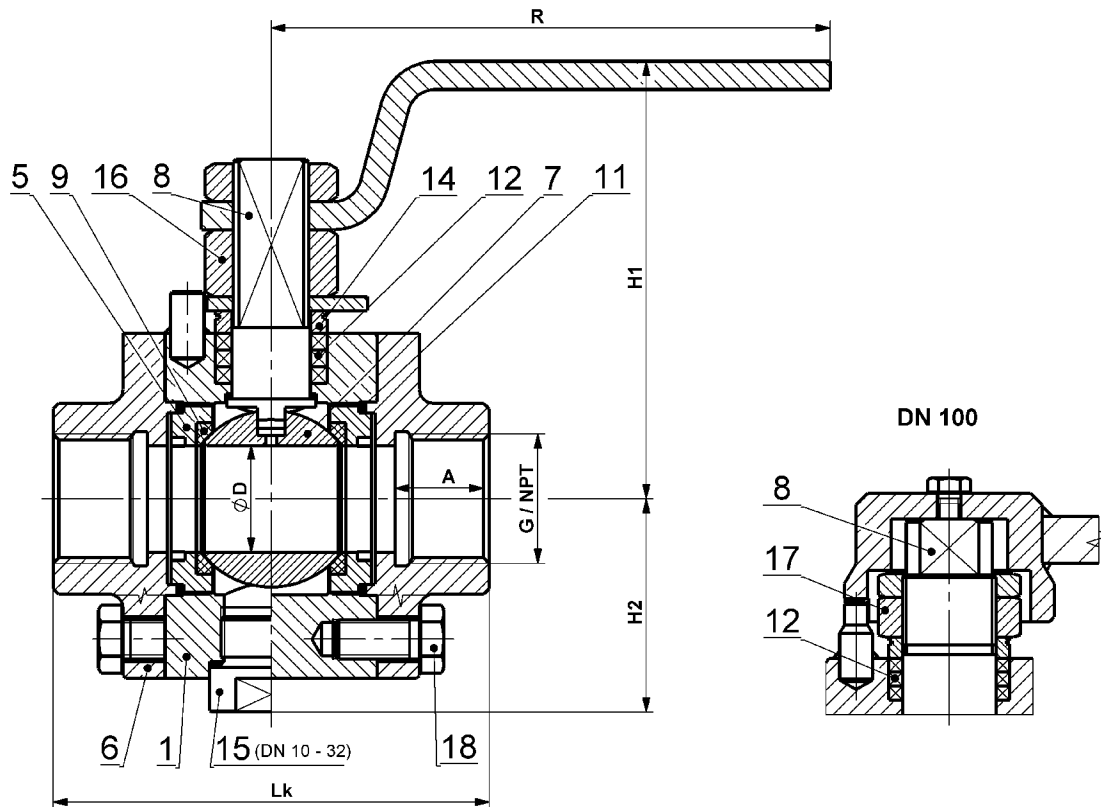


THREADED END BALL VALVE FOR HIGH TEMPERATURES

KM 9101.X-HT

DN 10–100 PN 16–160



Materials

Type KM 9101.X-HT		Material				
		Carbon steel		Alloyed steel	Stainless steel	
Position	Component	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	Socket	1.4021, ČSN 17 027	1.4021, ČSN 17 027	1.4923	1.4541, A182 F321	1.4571, A182 F316
7	Ball		1.4541, A182 F321			
8	Stem					
9	Seat	Carbon+Sb				
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

	DN	∅D	G	NPT	A	Lk	H1	H2	R	Hm / W
PN 16, 25, 40, 63	10	9,5	3/8"	3/8-18	13	75	103	37	150	1,5
	15	14	1/2"	1/2-14	15	75	109	45,5	200	2,2
	20	19	3/4"	3/4-14	16,5	90	122	52,5	250	3,4
	25	25	1"	1-11,5	19,5	105	126	55	250	4,6
	32	30	1 1/4"	1 1/4-11,5	21,5	120	138	63	250	6,4
	40	38	1 1/2"	1 1/2-11,5	23	130	145	70	250	8,2
	50	47	2"	2-11,5	26	150	167	72,5	350	14,1
	65	62	2 1/2"	2 1/2-8	31	170	159	80	450	
	80	76	3"	3-8	34	180				
100	95	4"	4-8	40	230					
PN 100	10	9,5	3/8"	3/8-18	13	75	107	43	200	2,2
	15	14	1/2"	1/2-14	15	80	109	48	200	2.6
	20	19	3/4"	3/4-14	16,5	95				
	25	25	1"	1-11,5	19,5	105				
	32	30	1 1/4"	1 1/4-11,5	21,5	120				
	40	38	1 1/2"	1 1/2-11,5	23	130				
	50	47	2"	2-11,5	26	150				

* = gearbox recommended, ** = with gearbox only. 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 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).

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 13463-1 (ATEX) – II 1 GD Ex IIC TX, I M1.

Testing

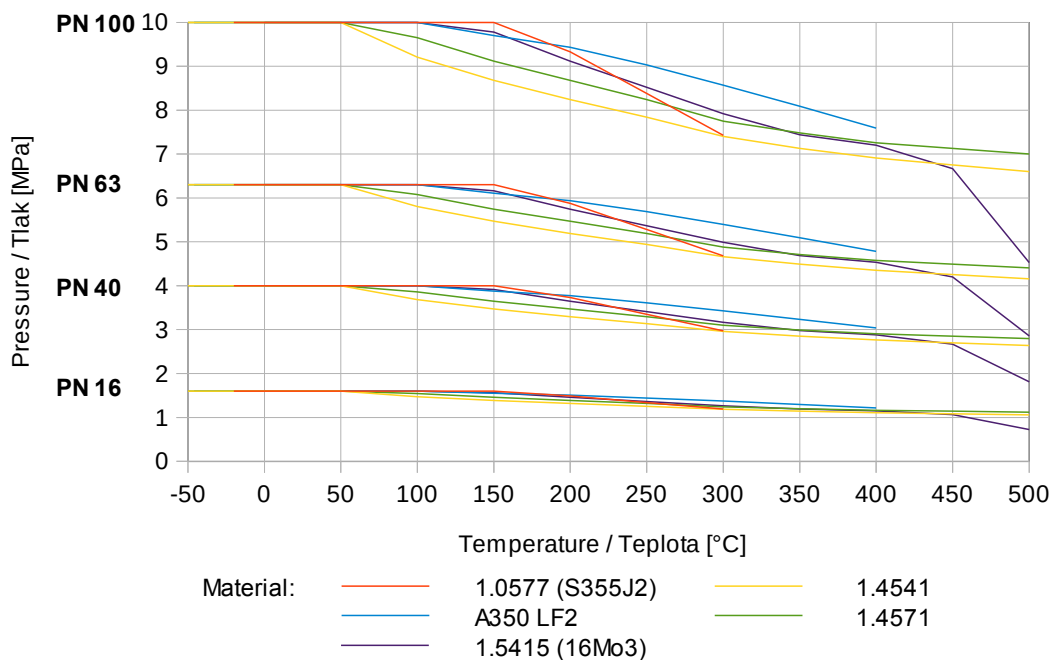
- EN 12266-1, leakage rate A – zero leakage.

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,
- 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.



Pressure-temperature graph



Type designation

