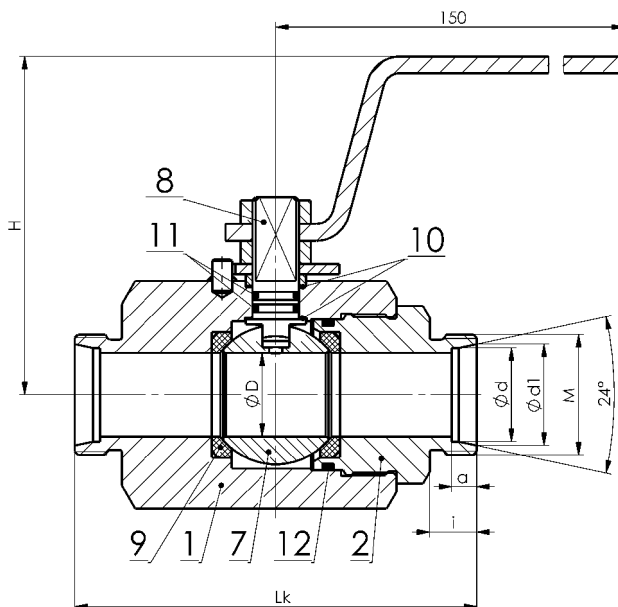


BALL VALVE WITH EXTERNAL THREADS

KM 9102.X

DN 10–40 PN 16–250



Materials

Type KM 9102.X		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	Screw joint				
7	Ball	1.4571, A182 F316, A351 CF8M, ČSN 17 027 (1.4021)			
8	Steam	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	Řada	øD	M	i	ød	ød1	a	Lk	S1	S2	H	R	Hm / W
	10	L	9,5	M18×1,5	11	12	14,3	7	80		27		115	
	15	L	14	M26×1,5	12	18	20,3	7,5	105		30		115	
	20	L	19	M30×2	14	22	24,3	7,5	110		41		120	
	25	L	25	M36×2	14	28	30,3	7,5	120	65	46	103,5	150	2,6
	32	L	30	M45×2	16	35	38	10,5	145		55		150	
40	L	40	M52×2	16	42	45	11	150		65		250		

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

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).

Operation

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

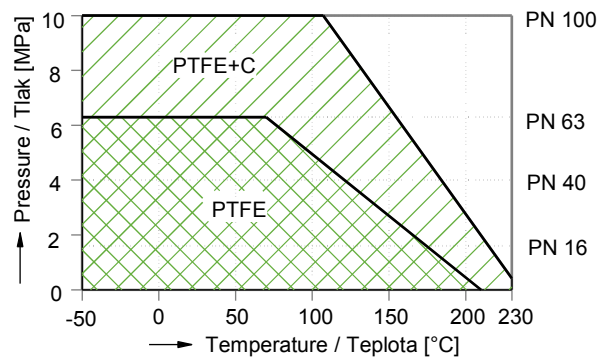
Compliance with standards

- EN 1983,
- EN 12516-1,
- EN ISO 8434-1,
- DIN 3357 part 2,
- 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.

Pressure-Temperature graph



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 IIIC TX °C Da.

Type designation

