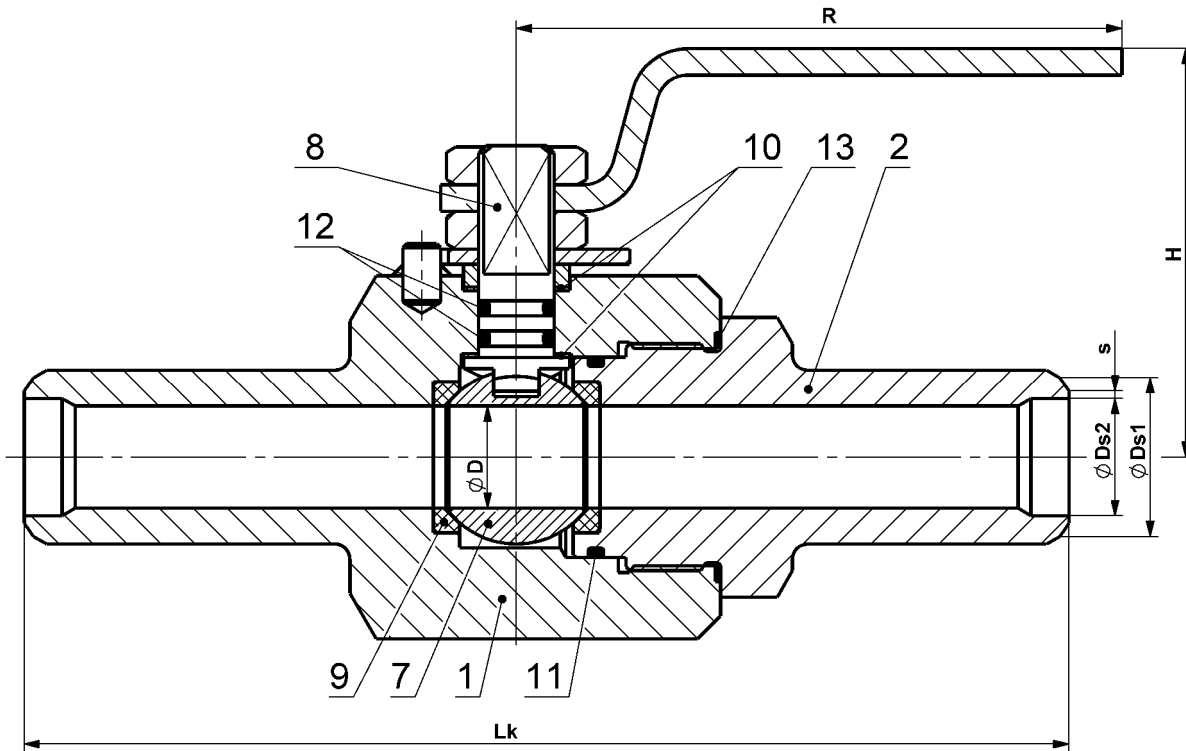


## BUTT WELD END BALL VALVE KM 9103.X-AF

NPS 1/2" – 2 1/2" Class 150–1500



### Materials

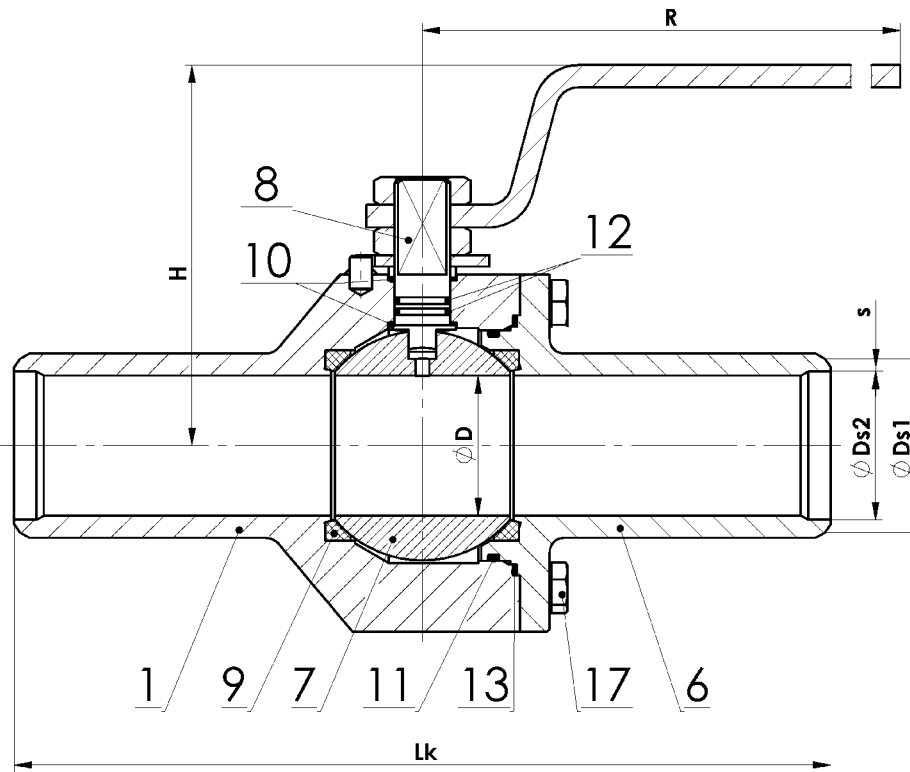
Type KM 9103.X-AF		Material			
		Carbon steel		Stainless steel	
Position	Component	X=1 For common temperatures from -20°C to +200°C	X=5 For low temperatures from -46°C to +200°C	X=3 For temperatures from -50°C to +200°C	X=4 For temperatures from -50°C to +200°C
1	Body	1.0577, S355J2	1.0565, A350 LF2	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	Graphite			
11	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
12	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
13	Gasket	Graphite			

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

## BUTT WELD END BALL VALVE

### KM 9103.X-AF

NPS 3" – 10" Class 150–1500



### Materials

Type KM 9103.X-AF		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	Socket				
7	Ball	1.4571, A182 F316, S355J2+Cr, 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, PTFE+C, PEEK			
11	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
12	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
13	Gasket	Graphite			
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

Class 150, 300	NPS	DN	ØD	ØDs1	ØDs2	s	Trubka / Pipe	Lk	H	R	Hm / W	
	½"	15	14	22	15,5	1,6	21,3×2,77 (Sch. 40)	270				
	¾"	20	19	27,5	20,5	1,6	26,7×2,87 (Sch. 40)	270				
	1"	25	25	34	26,5	1,6	33,4×3,38 (Sch. 40)	270				
	1 ¼"	32	30	43	35	1,6	42,2×3,56 (Sch. 40)	270				
	1 ½"	40	38	49	40,5	1,6	48,3×3,68 (Sch. 40)	270				
	2"	50	49	61	53,5	1,6	60,3×3,18	270				
	2 ½"	65	62	74	65,5	1,6	73×3,58	270				
	3" *	80	75	89	80,5	1,6	88,9×3,96	282				
	4" **	100	100	115	103,5	1,6	114,3×5,16	305				
	5" **	125	125	***					381			
	6" **	150	150						403			
	8" **	200	200						502			
10" **	250	250	568									

Class 600	NPS	DN	ØD	ØDs1	ØDs2	s	Trubka / Pipe	Lk	H1	R	Hm / W	
	½"	15	14,9	22	15,5	1,6	21,3×2,77 (Sch. 40)	270				
	¾"	20	19	27,5	20,5	1,6	26,7×2,87 (Sch. 40)	270				
	1"	25	25	34	26,5	1,6	33,4×3,38 (Sch. 40)	270				
	1 ¼"	32	30	43	35	1,6	42,2×3,56 (Sch. 40)	270				
	1 ½"	40	38	49	40,5	1,6	48,3×3,68 (Sch. 40)	270				
	2"	50	49	61	52	1,6	60,3×3,91 (Sch. 40)	292				
	2 ½"	65	62	74	62,5	1,6	73×5,16 (Sch. 40)	330				
	3" *	80	75	89	77,5	1,6	88,9×5,49 (Sch. 40)	356				
	4" **	100	100	115	102	1,6	114,3×6,02 (Sch. 40)	432				
	5" **	125	125	***					508			
	6" **	150	150						559			

\* = gearbox recommended, \*\* = with gearbox only, \*\*\* = contact our office. Dimensions in [mm], weights in [kg].  
Dimensions of welding ends according to the dimensional table or customer requirement.  
Dimensions for Class 900, 1500 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.

## Characteristics

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

## Operation

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

## Compliance with standards

- API 608,
- ANSI B16.25,
- ANSI B16.10 or not standardized,
- EN 12516-1,
- EN 17292,
- EN ISO 5211,
- EN 13463-1 (ATEX) – II 1 GD Ex IIC TX, I M1,
- EN ISO 10497 (API 607),
- EN 61508-1, 2 – SIL 2.

## Testing

- API 598 or API Spec 6D – zero leakage.

**Optional accessories, adjustments and services**

- different face-to-face dimensions or end combinations,
- connection for actuator according to ISO 5211,
- 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.

**Type designation**

