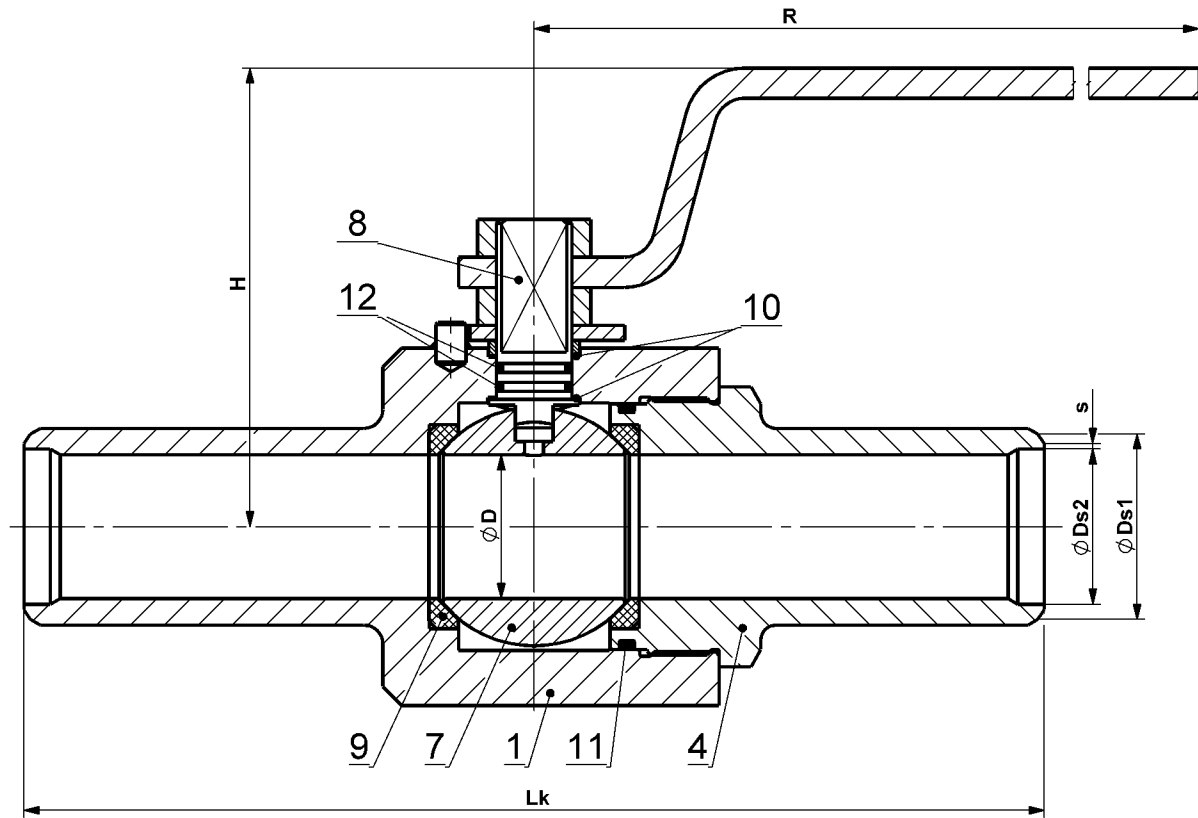


## BUTT WELD END BALL VALVE

**KM 9103.X-01**

DN 10–50 PN 16–250



### Materials

Type KM 9103.X-01		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
4	Socket				
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	RPTFE, PEEK			
11	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
12	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			

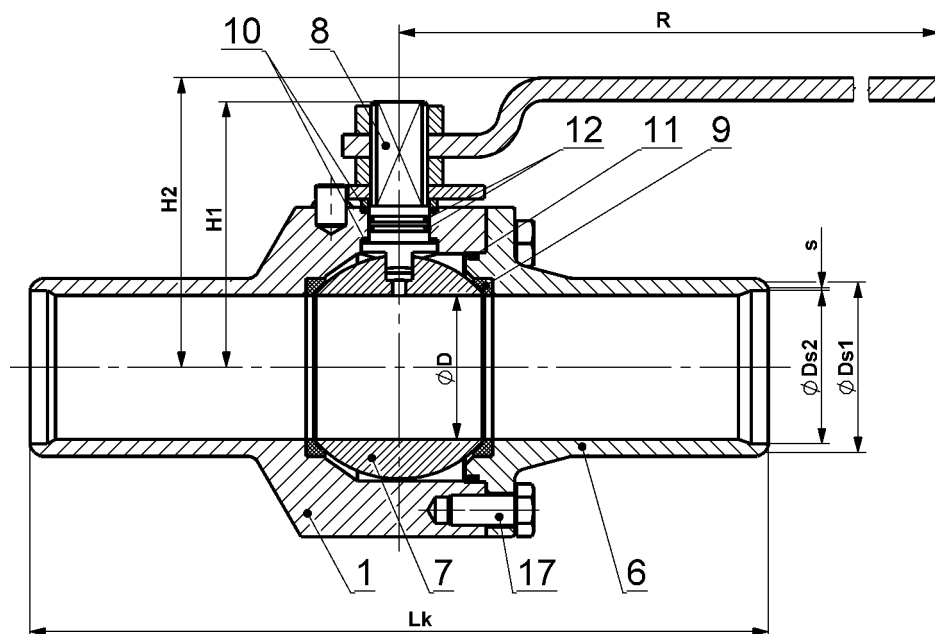
Other materials upon request (P265GH, 1.4306, 1.4462 etc.).

Operating temperature range can be reduced based on selected sealing materials.

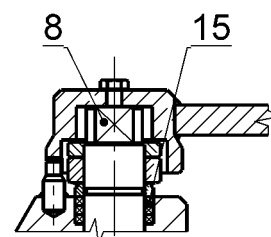
## BUTT WELD END BALL VALVE

**KM 9103.X-01**  
**KM 9103.X-SB**

DN 65–250 PN 16–160



**KM 9103.X-SB**  
DN 150-250, PN 16-63  
DN 100-150, PN 100



### Materials

Type KM 9103.X-01 Type KM 9103.X-SB		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, 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, PTFE+C, PEEK			
11	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
12	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
15	Packing	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

PN 16, 25, 40, 63	DN	øD	øDs1	øDs2	s	Trubka / Pipe	Lk	S1	S2	H	R	Hm / W
	10	9,5	18	13	-	17,1×2	270	36	24	63	115	0,9
	15	14	22	16	-	21,3×2,6	270	46	32	70	115	1,4
	20	19	27,5	21,5	-	26,9×2,6	270	50	36	75	120	1,8
	25	25	34	28,5	-	33,7×2,6	270	60	41	104	150	3,1
	32	30	43	37	-	42,4×2,6	270	70	55	108	150	4,3
	40	38	49	42,5	1,5	48,3×2,9	270	80	65	122	250	5,9
	50	47	61	53,2	1,5	60,3×3,2	300	90	75	129	250	8,9

PN 16, 25, 40	DN	øD	øDs1	øDs2	s	Trubka / Pipe	Lk			H	R	Hm / W	
	65	62	77	69,5	1,5	76,1×3,2	360	-	-	153	350	17,2	
	80	76	90	81,5	1,5	88,9×4	390	-	-	153	450	26,5	
	100	98	115	106	1,5	114,3×4	450	-	-	172	500	40,5	
	125	119						525	-	-	210	550	63,5
	150	150						600	-	-	240	540	114
	200 *	200						600	-	-	-	-	
250 **	250						730	-	-	-	-		

PN 63	DN	øD	øDs1	øDs2	s	Trubka / Pipe	Lk			H	R	Hm / W	
	65	62	77	68,5	1,5	76,1×3,6	360	-	-	154	350	21	
	80	76	90	80,5	1,5	88,9×4	390	-	-	153	450	26,5	
	100	98	115	104	1,5	114,3×5	450	-	-	184	630	63	
	125 *	119						525	-	-	195	-	
	150 **	150						600	-	-	-	-	
	200 **	200						600	-	-	-	-	
250 **	250						730	-	-	-	-		

PN 100	DN	øD	øDs1	øDs2	s	Trubka / Pipe	Lk	S1	S2	H	R	Hm / W	
	10	9,5	18	13	-	17,1×2	270	36	24	63	115	0,9	
	15	14	22	16	-	21,3×2,6	270	36		63	115	1,1	
	20	19	27,5	21,5	-	26,9×2,6	270	46		70	120	1,5	
	25	25	34	27,5	1,5	33,7×2,9	270	60	41	104	150	3,1	
	32	30	43	36	1,5	42,4×3,2	270	65		100	150	3,9	
	40	38	49	41	1,5	48,3×3,6	270	80		116	250	4,4	
	50	47	61	51	1,5	60,3×4,5	300	95		123	250	6,5	
	65	62	77	66	1,5	76,1×5	360	-	-	144	450	24,2	
	80	76	90	77,5	1,5	88,9×5,6	390	-	-	169	630	34	
	100 *	98	115	100	1,5	114,3×7	450	-	-	184		63	
	125 **	119						525	-	-	-	-	
	150 **	150						600	-	-	-	-	

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

\* = gearbox recommended, \*\* = with gearbox only, \*\*\* = contact our office.

Dimensions of welding ends according to the dimensional table or customer requirement.

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 (H<sub>2</sub>S),
- 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.

### Operation

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

### Compliance with standards

- EN 1983,
- EN 12516-1,
- EN 17292,
- EN 12982 series 68,
- 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

