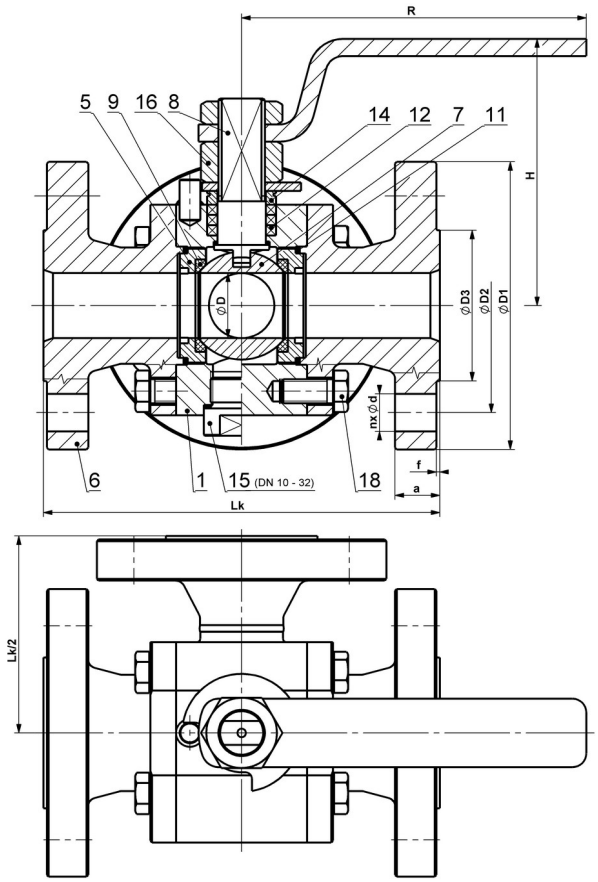
THREE-WAY FLANGED BALL VALVE FOR HIGH TEMPERATURES

KM 9308.X-01-HT

DN 10–100 PN 16–160



Materials

Type KM 9308.**X**-01-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	Cover					
7	Ball	1.4021, ČSN 17 027	1.4021, ČSN 17 027	1.4923		
8	Stem		1.4541, A182 F321			
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	
18	Bolt	8.8, A2-70, A193 B7	A2-70, A320 L7	A193 B7	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	ØD	ØD1	ØD2	ØD3	f	a	n	d	Lk	H	R	Hm / W
PN 16, 25, 40	10	9,5	90	60	40	2	16	4	14				
	15	14	95	65	45	2	16	4	14				
	20	20	105	75	58	2	18	4	14				
	25	25	115	85	68	2	18	4	14	160	123	250	8,6
	32	30	140	100	78	2	18	4	18				
	40	38	150	110	88	2	18	4	18				
	50	47	165	125	102	2	20	4	18				
	65	62	185	145	122	2	22	8	18				
	80	76	200	160	138	2	24	8	18	310	197	630	52

PN 16	DN	ØD	ØD1	ØD2	ØD3	f	a	n	d	Lk	H	R	Hm / W
	100	95	220	180	158	2	20	8	18				

PN 25 PN 40	DN	ØD	ØD1	ØD2	ØD3	f	a	n	d	Lk	H	R	Hm / W
	100	95	235	190	162	2	24	8	22				

PN 63, 100	DN	ØD	ØD1	ØD2	ØD3	f	a	n	d	Lk	H	R	Hm / W
	10	9,5	100	70	40	2	20	4	14				
	15	14	105	75	45	2	20	4	14				
	20	19	130	90	58	2	22	4	18				
	25	25	140	100	68	2	24	4	18				
	32	30	155	110	78	2	24	4	22				
	40	38	170	125	88	2	26	4	22	220	143	250	21,7

PN 63	DN	ØD	ØD1	ØD2	ØD3	f	a	n	d	Lk	H	R	Hm / W
	50	47	180	135	102	2	26	4	22	230	162	350	30
	65	62	205	160	122	2	26	8	22				
	80	76	215	170	138	2	28	8	22				
	100*	95	250	200	162	2	30	8	26				

* = gearbox recommended, ** = with gearbox only. Dimensions in [mm], weights in [kg].
Dimensions for PN 160 upon request.

Application

Isolating valve designed to redirect 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),
- ball bore form of either “L” or “T”.

Pressure-temperature graph

Operation

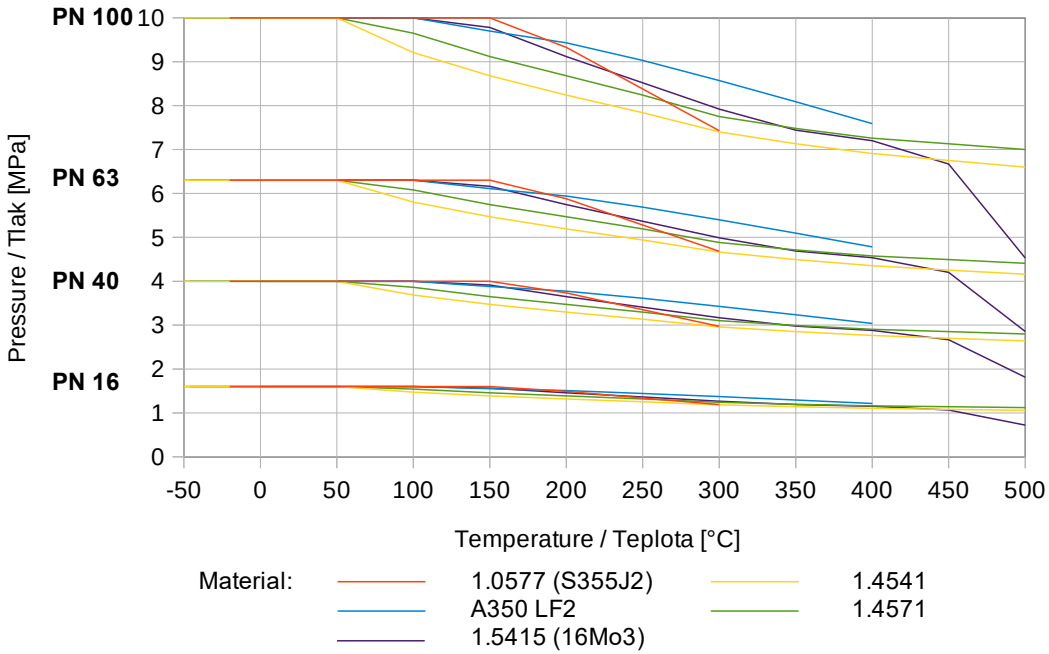
- hand lever,
- hand wheel with worm gear,
- pneumatic actuator,
- electric actuator.

Compliance with standards

- EN 1983,
- EN 12516-1,
- EN 1092-1,
- EN 558-1 series 1, or not standardized,
- EN ISO 5211,
- EN ISO 80079–36 (ATEX) – II 2G Ex h IIB T6…T3 Gb.

Testing

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

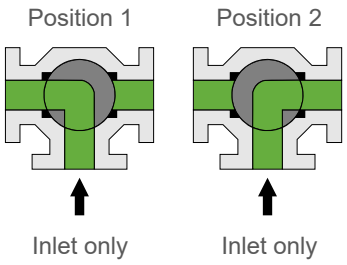


Flow directions

The ball valve is equipped with two seats for ball sealing, the middle connecting pipe is without a seat. The pressure fluid may be brought to the **middle connection only**, the end connections are outlet connections. The flow possibilities are shown on the schemes, other possibilities can be discussed by phone.

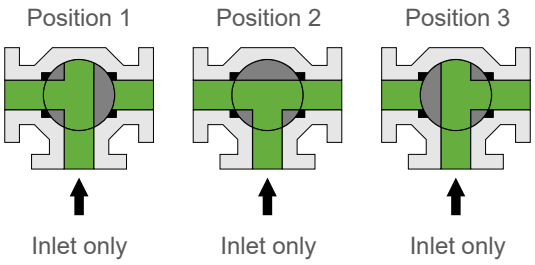
Ball "L" – two positions

Variant L221



Ball "T" – three positions

Variant T231



Type designation

KM 9308.X-01-HT

Type of KE-ARM valve – 3-way ball valve	Type series – for high temperatures
Control: 0 = lever 3 = gear box or adjustment for actuator ISO 5211	Variant – with two seats
	Material – according to table
	Connection to pipeline: 8 = flanged

Optional accessories, adjustments and services

- different face-to-face dimensions or end combinations,
- adaptation of face form (Groove, Tongue, Spigot, Recess, O-ring groove, RTJ),
- 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
- design according to API standards
- design according to standard EN ISO 17292
- 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.