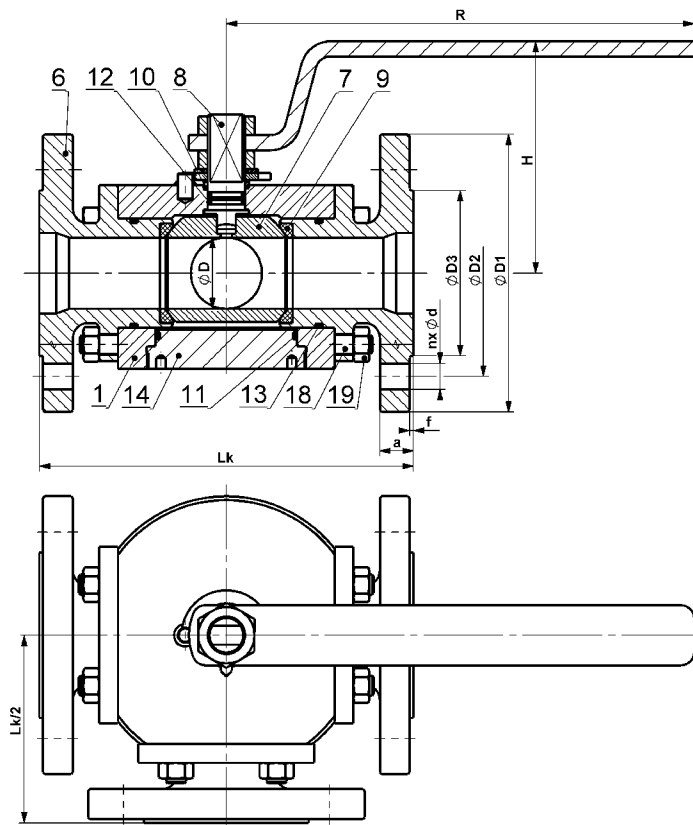


## THREE-WAY FLANGED BALL VALVE

with four seats, with full bore “L” or “T”

KM 9308.X-02

DN 10–150 PN 16–250



### Materials

Type KM 9308.X-02		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	Cover				
7	Ball	1.4021, ČSN 17 027	1.4541, A182 F321 ČSN 17 027	1.4541, A182 F321	1.4571, A182 F316
8	Stem				
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			
13	Sealing	NBR, HNBR, EPDM, FPM, FPM+FEP			
14	Cover	1.0577, S355J2	1.0565, A350 LF2	1.4541, A182 F321	1.4571, A182 F316
18	Bolt	8.8, A2-70, A193 B7	A2-70, A320 L7	A2-70, A 193 B8	A2-70, A193 B8
19	Nut	Cl.8, A2-70, A194 Gr. 2H	A2-70, A194 Gr. 7	A2-70, A194 Gr. 8	A2-70, A194 Gr. 8

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	DN	∅D	∅D1	∅D2	∅D3	f	a	n	d	Lk	H	R	Hm / W
	10	9,5	90	60	40	2	16	4	14	130			
	15	14	95	65	45	2	16	4	M12	130	92	100	4,9
	20	20	105	75	58	2	18	4	M12	150	100	150	6,7
	25	25	115	85	68	2	18	4	M12	160			
	32	30	140	100	78	2	18	4	M16	180	118	250	13,5
	40	38	150	110	88	2	18	4	M16	200	125	250	18,2
	50	47	165	125	102	2	20	4	18	230	136	250	26,3
	65	62	185	145	122	2	22	8	18	290	147	350	37,7
80	76	200	160	138	2	24	8	18	310	152	500	57	

PN 16	DN	∅D	∅D1	∅D2	∅D3	f	a	n	d	Lk	H	R	Hm / W
	100	95	220	180	158	2	20	8	18	350	180	630	81
	125	125	250	210	188	2	22	8	18	400			
150	150	285	240	212	2	22	8	22	480				

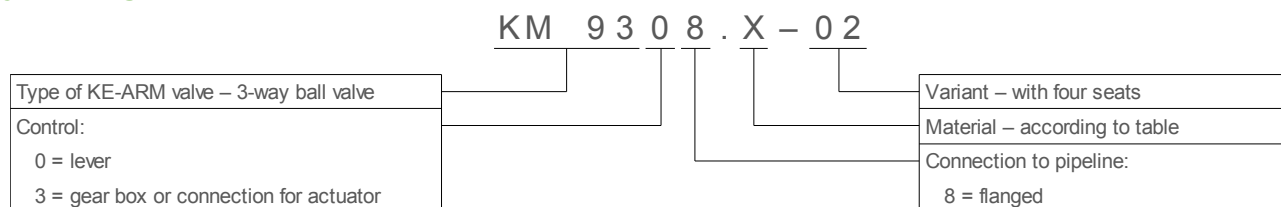
PN 25, 40	DN	∅D	∅D1	∅D2	∅D3	f	a	n	d	Lk	H	R	Hm / W
	100	95	235	190	162	2	24	8	M20	350	183	630	89
	125*	125	270	220	188	2	26	8	26	400			
	150**	150	300	250	218	2	28	8	26	480	-	-	

PN 63, 100	DN	∅D	∅D1	∅D2	∅D3	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	M16				
	32	30	155	110	78	2	24	4	M20				
40	38	170	125	88	2	26	4	M20					

PN 63	DN	∅D	∅D1	∅D2	∅D3	f	a	n	d	Lk	H	R	Hm / W
	50	47	180	135	102	2	26	4	22				
	65	62	205	160	122	2	26	8	22				
	80	76	215	170	138	2	28	8	M20				
	100*	95	250	200	162	2	30	8	M24				
	125**	125	295	240	188	2	34	8	30		-	-	
150**	150	345	280	218	2	36	8	33		-	-		

\* = gearbox recommended, \*\* = with gearbox only. Dimensions in [mm], weights in [kg]. Dimensions for PN 160, 250 upon request.

## Type designation



## 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 +200 °C.

Suitable for:

- water, steam, gas, oil, crude oil, 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”.

### Operation

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

### Flow directions

### Compliance with standards

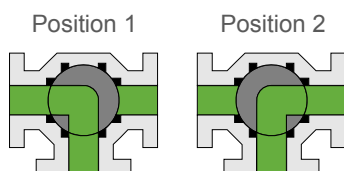
- EN 1983,
- EN 12516-1,
- EN 1092-1,
- EN 558-1 series 1, or not standardized,
- EN ISO 5211,
- EN 13463-1 (ATEX) – II 1 GD Ex IIC TX, I M1.

### Testing

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

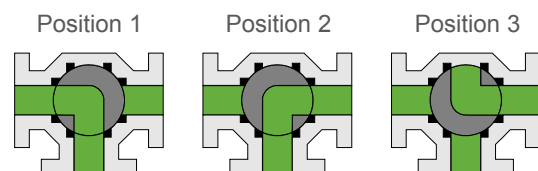
#### Ball “L” - two positions

Variant L321



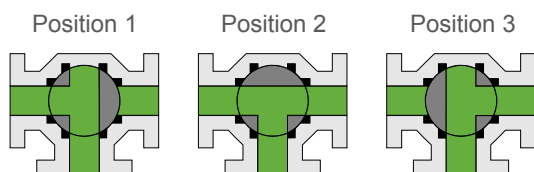
#### Ball “L” - three positions

Variant L331

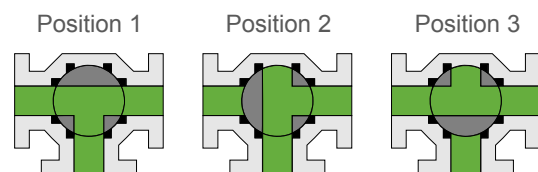


#### Ball “T” - three positions

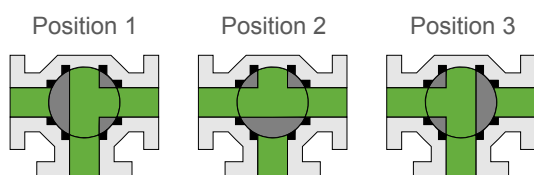
Variant T331



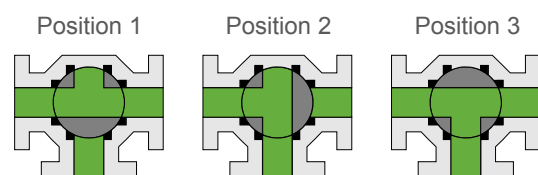
Variant T332



Variant T333



Variant T334



### 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 – for locking opened / closed position of the valve
- extended stem – e.g. for the reason of insulation of the valve and pipeline
- limit switches
- documentation according to EN 10204 3.1 or 3.2
- special adjustments according to customer requests
- design according to standard NACE MR 0175 or ISO 15156
- design according to API standards
- ball bore LL (X)