

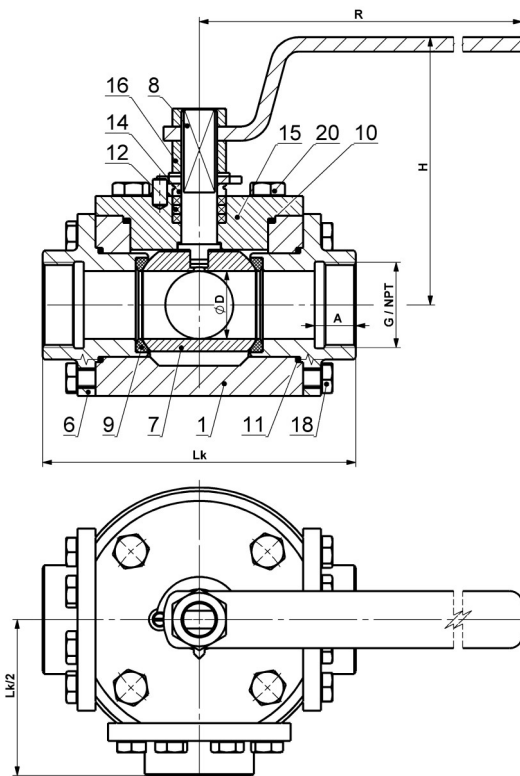
THREE-WAY THREADED END BALL VALVE

with four seats, with stuffing box, with full bore "L" or "T"

KM 9301.X-02-SB – connecting thread G

KM 9301.X-02-SB-02 – connecting thread NPT

DN 10–100 PN 16–100



Materials

Type KM 9301.X-02-SB Type KM 9301.X-02-SB-02		Material			
		Carbon steel		Stainless steel	
Position	Component	X=1 For common temperatures from -20°C to +230°C	X=5 For low temperatures from -46°C to +230°C	X=3 For temperatures from -60°C to +230°C	X=4 For temperatures from -60°C to +230°C
1	Body	1.0577, S355J2	1.0565, A350 LF2	1.4541, A182 F321	1.4571, A182 F316
6	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	Grafit			
11	Gasket	Grafit			
12	Packing	Grafit			
14	Gland cover	1.4021, ČSN 17 027			
15	Cover	1.0577, S355J2	1.0565, A350 LF2	1.4541, A182 F321	1.4571, A182 F316
16	Nut	Tř.8, A2-70, A194 Gr. 2H	A2-70, A194 Gr. 7	A2-70, A194 Gr. 8	A2-70, A194 Gr. 8
18	Bolt	8.8, A2-70, A193 B7	A2-70, A320 L7	A2-70, A193 B8	A2-70, A193 B8
20	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.).

Dimensions and weights

	DN	ØD	G	NPT	A	Lk	H	R	Hm / W
PN 16, 25, 40, 63	10	9,5	3/8"	3/8-18	13				
	15	14	1/2"	1/2-14	15	100	119	150	3,1
	20	19	3/4"	3/4-14	16,5				
	25	25	1"	1-11,5	19,5				
	32	30	1 1/4"	1 1/4-11,5	21,5				
	40	38	1 1/2"	1 1/2-11,5	23				
	50	47	2"	2-11,5	26				
PN 16 PN 25 PN 40	DN	ØD	G	NPT	A	Lk	H	R	Hm / W
	65	62	2 1/2"	2 1/2-8	31				
	80	76	3"	3 - 8	34				
PN 63	DN	ØD	G	NPT	A	Lk	H	R	Hm / W
	65	62	2 1/2"	2 1/2-8	31				
	80	76	3"	3 - 8	34				
PN 100	DN	ØD	G	NPT	A	Lk	H	R	Hm / W
	100 *	95	4"	4 - 8	40				
	100	95	4"	4 - 8	40				

Dimensions in [mm], weights in [kg].

Application

Isolating valve designed to redirect the service fluid flow. It is not designed to be used for throttling or regulating purposes. For temperatures from -60 °C up to +230 °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,
- 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.

Compliance with standards

- EN 1983,
- EN 12516-1,
- EN 228-1, or ANSI B 1.20.1,
- EN ISO 5211,
- EN ISO 80079-36 (ATEX) – II 2G Ex h IIB T6...T3 Gb.

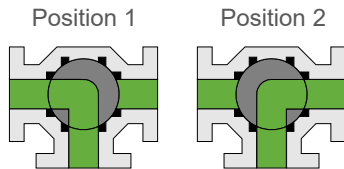
Testing

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

Flow directions

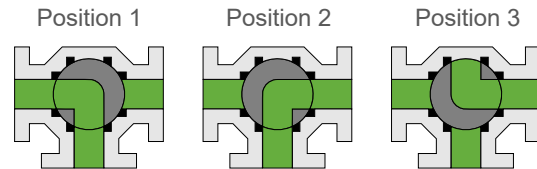
Ball "L" - two positions

Variant L321



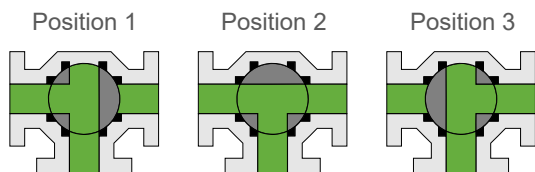
Ball "L" - three positions

Variant L331

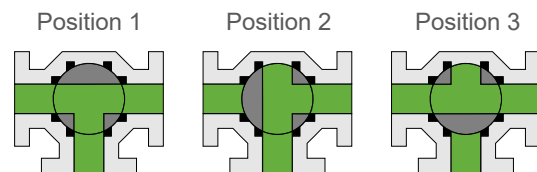


Ball "T" - three positions

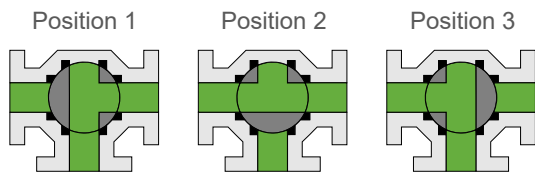
Variant T331



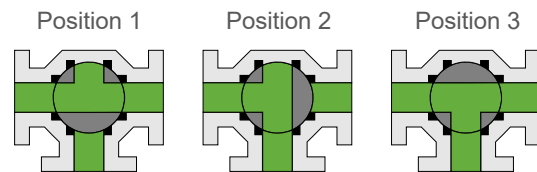
Variant T332



Variant T333



Variant T334



Optional accessories, adjustments and services

- different face-to-face dimensions or end combinations
- 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
- 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 for fluids with hydrogen sulfide (H₂S),
- design according to API standards,
- design according to EN ISO 17292 standard,
- ball bore LL (X),
- all seals from PTFE material,
- 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 IIC TX °C Da.

Type designation

