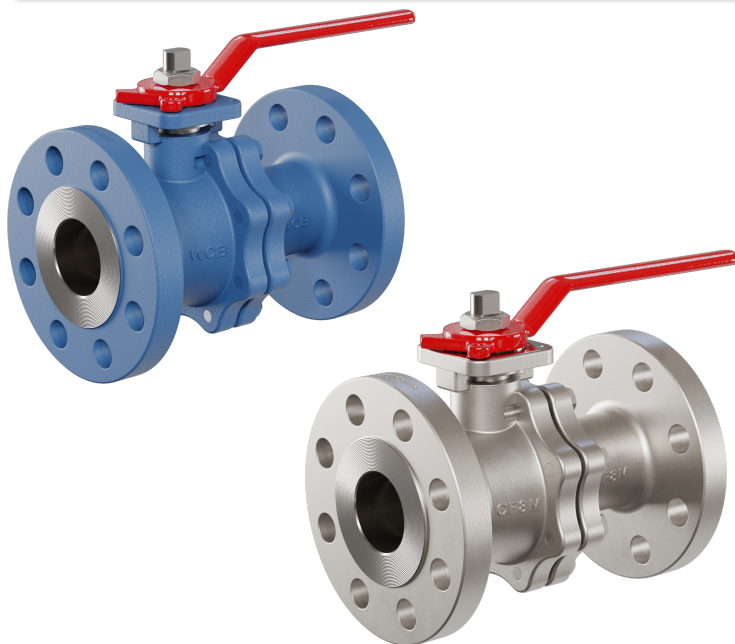


Flanged ball valve ANSI 300 TYPE FK14



Description:

Flanged ball valve made of stainless steel. For shutting off systems. Ideal for mechanical and plant engineering.

Product features:

- Suitable for neutral and non-neutral **liquid and gaseous media**
- Antistatic design
- Blow-out proof switching shaft
- ISO5211 plate for actuator mounting
- Ball valve according to EN1983 - ISO 17292 and ASME B16.34
- Fire Safe ISO 10497:2004
- Vent opening to prevent overpressure

Connection:

DN15 - DN200

Construction:

full passage

Pressure:

max. 50 bar (see pressure-temperature diagram)

Design:

Connection:

Body material:

Ball material:

Seat:

Stem seal:

Lever handle:

Mounting flange:

Temperature:

Max. pressure

Remark:

Two-piece housing full bore

Flanges ASME B16.5 ANSI 300 R.F. version

FK1400: Cast steel 1.0619 / ASTM A216 WCB

FK1401: Stainless steel CF8M / CF8M

Stainless steel CF8M / CF8M

PTFE

PTFE with 25% glass fiber

Spheroidal graphite iron

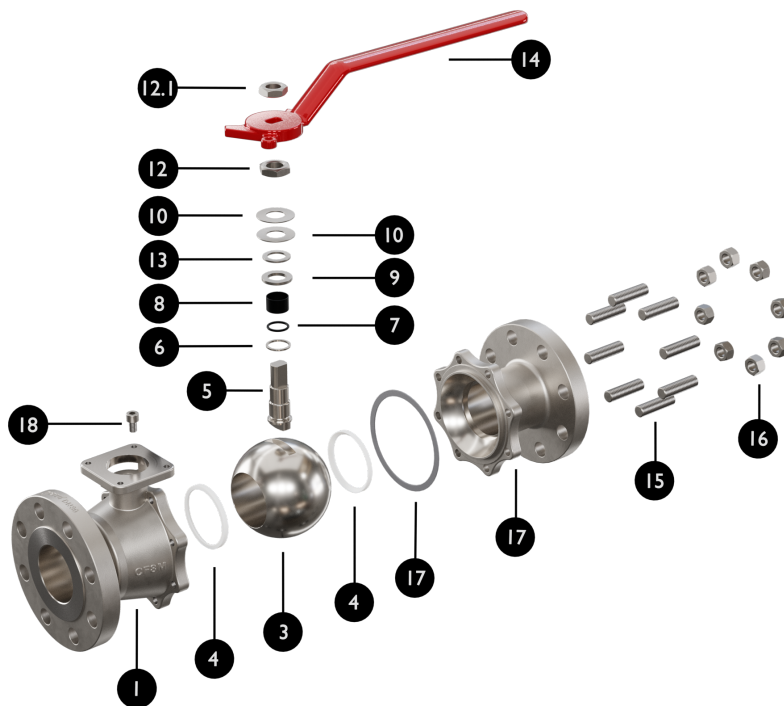
According to ISO 5211

FK1400: Cast steel -29°C to +230°C (depending on operating pressure)

FK1401: Stainless steel -50°C to +230°C (depending on operating pressure)

max. 50 bar (PN50) | for steam max. 12 bar | for vacuum 10⁻²torr

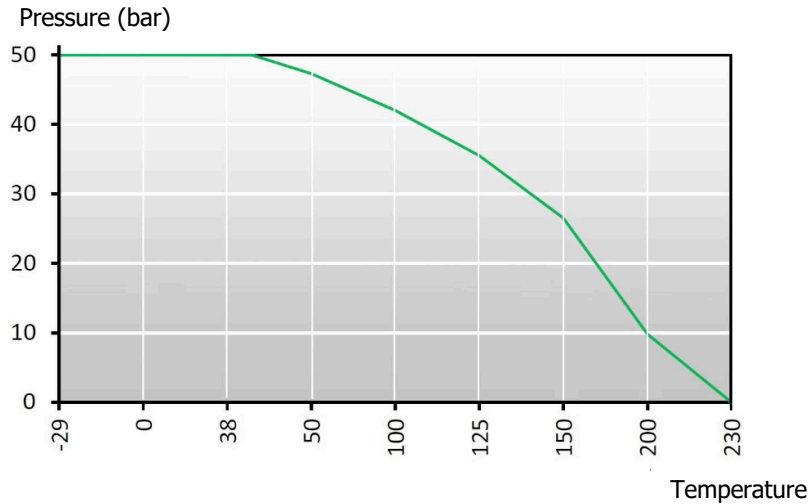
Cast steel version **FK1400** with paint finish to RAL 5009, 5-15 µm

Material:

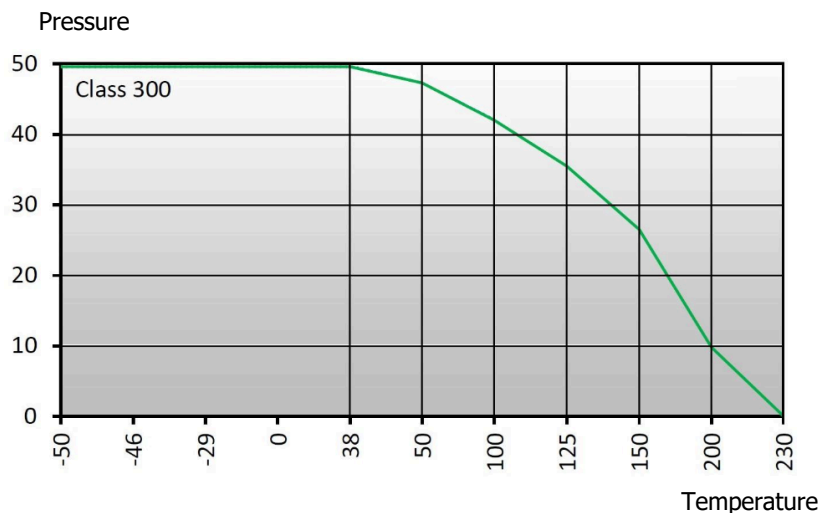
No.	Designation	Material FK1400 Cast steel	Material FK1401 Stainless steel
1	Housing	Cast steel 1.0619 / ASTM A216 WCB	Stainless steel CF8M / CF8M
2	Flange end piece	Cast steel 1.0619 / ASTM A216 WCB	Stainless steel 1.4408 / CF8M
3	Ball	Stainless steel CF8M / CF8M	Stainless steel 1.4408 / CF8M
4	Seat	PTFE	PTFE
5	Stem	Stainless steel 1.4401 / AISI 316	Stainless steel 1.4401 / AISI 316
6	Spindle seal	PTFE with 25% glass fiber	PTFE with 25% glass fiber
7	O ring Spindle	FKM	FKM
8	Gasket Stuffing box	Graphite	Graphite
9	Stuffing box	Stainless steel 1.4305 / AISI 303	Stainless steel 1.4305 / AISI 303
10	Spring ring	Inconel 718	Inconel 718
12	Stuffing box packing	Stainless steel 1.4305 / AISI 303	Stainless steel 1.4305 / AISI 303
12.1	Handle nut	Stainless steel 1.4305 / AISI 303	Stainless steel 1.4305 / AISI 303
13	Washer	PTFE with 25% glass fiber	PTFE with 25% glass fiber
14	Handle	Spheroidal graphite cast iron	Spheroidal graphite cast iron
15	Bolt	A 193 size B7M	A 193 size B8M
16	Nut	A 194 size 2HM	A 194 size 8M
17	Spiral wound gasket	Stainless steel 1.4404 / AISI 316L + PTFE + graphite	Stainless steel 1.4404 / AISI 316L + PTFE + graphite
18	Bolt	A2	A2

Pressure-temperature diagrams (without steam):

For cast steel version:



For stainless steel version:



Flow rate (Kvs values in m³/h):

DN	DN15	DN20	DN25	DN40	DN50	DN80	DN100	DN150	DN200
NPS	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Kvs	20	40	75	170	270	1000	1650	4200	9000

Torque (in Nm without safety factor)

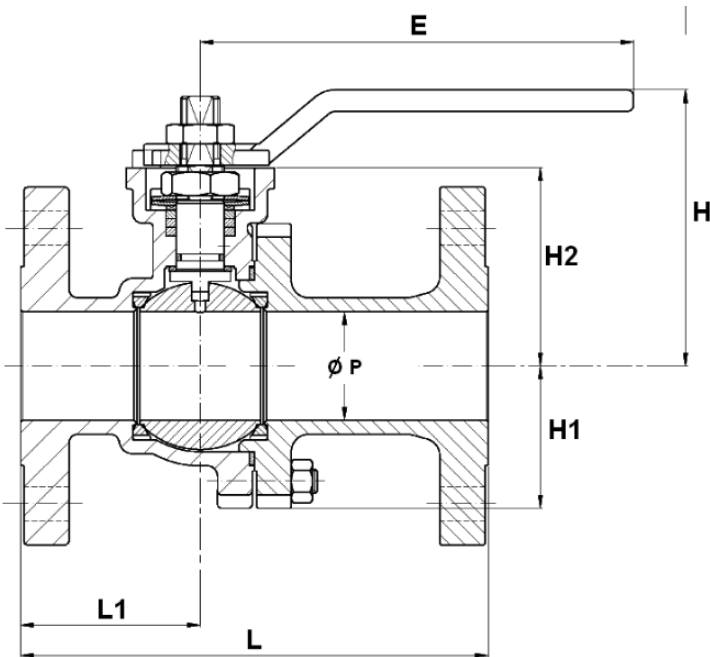
DN	DN15	DN20	DN25	DN40	DN50	DN80	DN100	DN150	DN200
NPS	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
Torque	10	13	17	30	49	135	170	308	780
MAST*	17	17	27,2	91,7	91,7	173,7	355,4	733,8	1739,5

IMPORTANT: Depending on the frequency of operation, a safety factor of up to 1.5 is recommended

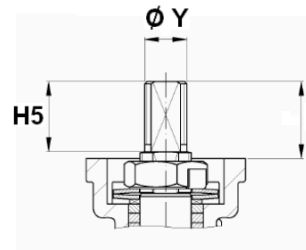
*MAST=Maximum allowable stem torque: Highest torque that the valve can withstand without breaking

Dimensions:

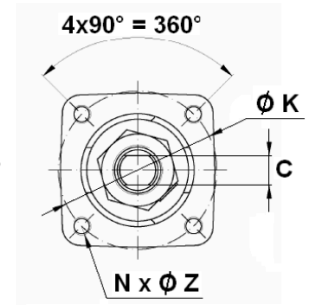
Ball valve:



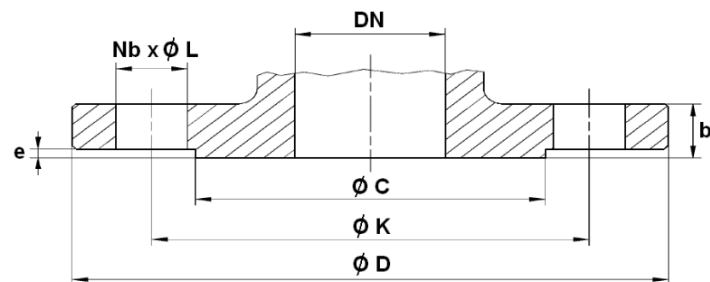
Stem:



ISO plate:



Flange:



DN (mm)	15	20	25	40	50	80	100	150	200
NPS (")	1/2"	3/4"	1"	1 1/2"	2"	3"	4"	6"	8"
ball valve:									
Ø P	15	20	25	40	50	78	100	151	203
L	140	152	165	190	216	283	305	403	502
L1	60	65	70	80	83	118	133	160	239
E	170	170	170	215	215	430	466	680	845
H	68	70	86	122,5	127,5	190	192,5	259	319
H1	31	33	39	48	63	87	108	152	202
H2	41	43	58,5	86,5	91,5	118,5	144	203	250
Weight (kg)	2,5	3,7	4,7	9,4	12,2	25,0	39,5	88,1	160,5
Spindle:									
H4	18	18	22	33	33	34	45	56	69
H5	11	11	21	32	32	33	43,5	54,5	67
Ø Y	M10	M10	M12	M18	M18	M22	M28	M36	M48
ISO plate:									
C	7	7	8	12	12	15	19	24	32
Ø K	50	50	50	70	70	102	102	125	140
ISO	F05	F05	F05	F07	F07	F10	F10	F12	F14
N x Ø Z	4 x M6	4 x M6	4 x M6	4 x M8	4 x M8	4 x M10	4 x M10	4 x M12	4 x M16
Flange:									
Ø C	35	43	51	73	92	127	157	216	270
Ø D	95	117,5	124	155,5	165	210	254	318	381
Ø K	66,55	82,55	88,90	114,30	127,00	168,10	200,15	269,75	330,2
Nb x Ø L	4 x 15,74	4 x 19	4 x 19	4 x 22,2	8 x 19	8 x 22,2	8 x 22,2	12 x 22,2	12 x 25,4
b	14,3	15,8	17,6	20,6	22,4	28,5	31,8	36,6	41,2
e	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6

Standards:

- DIRECTIVE 2014/68/EU: For liquids and gases of group 1
 - DN15-DN25 (NPS 1/2" - 1"): Article 4, §3 (SEP), no CE marking
 - DN40-DN100 (NPS 1 1/2" - 4"): Risk category II, CE0035 or CE1035
 - DN150-DN200 (NPS 6" - 8"): Risk category III, CE0035 or CE1035
- Ball valve design according to EN 1983 - ISO17292 and ASME B16.34
- Materials according to NACE MR 01-75
- Pressure tests according to EN 12266-1, Rate A and API 598
- Fire safe according to ISO 10497:2004
- Vent opening according to EN 15848-1:2006
- Class 300 (PN50) Flange R.F. according to ASME B16.5
- ISO 5211 mounting flange and stem size to EN 15081
- Face-to-face length to ASME B16.10 (EN 558 series 4 to DN150)

Options (on request):

- ATEX

Article number:

Version	Material	Connection	Nominal size
FK14	00 - Cast steel	00 - Flange ANSI300	03 - DN15
	01 - Stainless steel		04 - DN20
			05 - DN25
			07 - DN40
			08 - DN50
			10 - DN80
			11 - DN100
			13 - DN150
			14 - DN200

Example no. FK14010008:

FK14	01	00	08
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Two-piece ball valve FK14

Material: Stainless steel CF8M / CF8M

Flange: ASME B16.5 ANSI 300 R.F.

Nominal size: DN50

Illustration similar, subject to technical changes.