PFA ball valve type FK13

description:

Flange ball valve spheroidal graphite cast iron with steel handle, ball in PFA. Ideal for pipeline systems.

features:

- suitable for aggressive **gaseous & liquid media**
- one-piece PFA lining
- the integrated stand
- TA-Luft
- Blowout proof selector shaft
- Epoxy coating according to ISO 12944-5 C2M
- Leakage-free operation due to large ball sealing rings
- Patented technology
- No deposits or residues from medium

connection:	**construction:**	**pressure:**	**temperature**
DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200	full port design	0 – 16 bar	-20°C bis +200°C

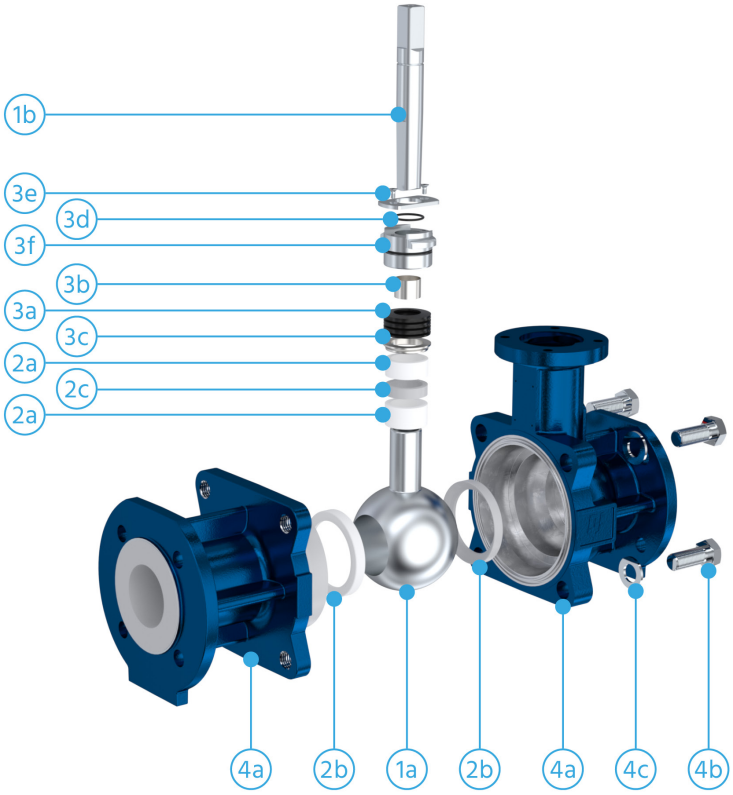
design:	Two-piece ball valve with full port design
body:	spheroidal graphite cast iron 5.3103 epoxy coating color blue (RAL 5005)
lining:	PFA
face-to-face:	EN 558, Row 1 ASME B16.10 Class 150, Row 18/19
ball material:	PFA
sealing surface:	DIN EN 1092-1
flange connection:	acc. to EN 1092-1 PN10-16 (DN15 to DN150) acc. to EN 1092-1 PN10 (DN200) ASME B16.5, Class 150
top flange:	DIN ISO 5211
pressure test:	EN 12266-1

Standards:

- Top flange acc. to ISO 5211
- PED 2014/68/EU
- Pressure test acc. to EN12266-1
- Face-to-face length acc. to EN558, Row 1
- Face-to-face length acc. to ASME B16.10, Class 150, Row 18/19
- TA-Luft, ISO 15848-1
- FDA 1935/2004
- ATEX 2014/34/EU

Material description:

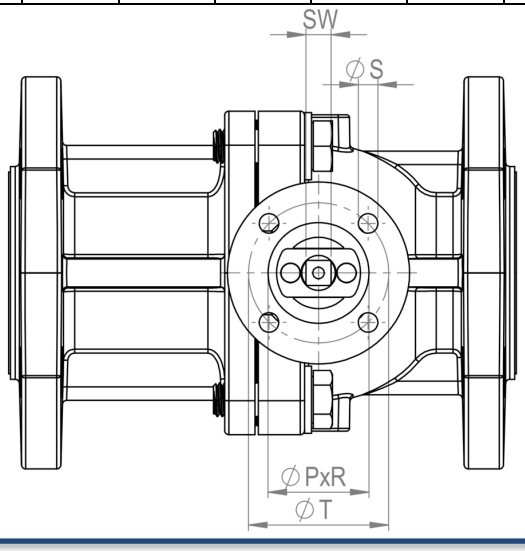
no.	part	material
1a	ball	PFA
1b	stem	1.4404
2a	chevron seals	PTFE
2b	ball seals	PTFE
2c	spacer	PTFE
3a	belleville springs	carbon steel
3b	shaft bushing	PTFE / steel
3c	pusher	1.4301
3d	spring-lock washer	1.4301
3e	locking plate & screws	1.4404
3f	bayonet coupling	1.4404
4a	valve body	5.3103
4b	body bolts	stainless steel
4c	washers	stainless steel



Dimensions:

Stem end:

DN	15	20	25	32	40	50	65	80	100	150	200
SW	9	9	9	9	17	17	22	22	22	27	27
øU	12	12	12	12	22	22	28	28	28	36	36
ISO	F05	F05	F05	F05	F07	F07	F10	F10	F10	F12	F12
øT	50	50	50	50	70	70	102	102	102	125	125
øS	4x7	4x7	4x7	4x7	4x9	4x9	4x11	4x11	4x11	4x13	4x13
øPxR	36x3.5	36x3.5	36x3.5	36x3.5	56x3.5	56x3.5	71x3.5	71x3.5	71x3.5	86x3.5	86x3.5

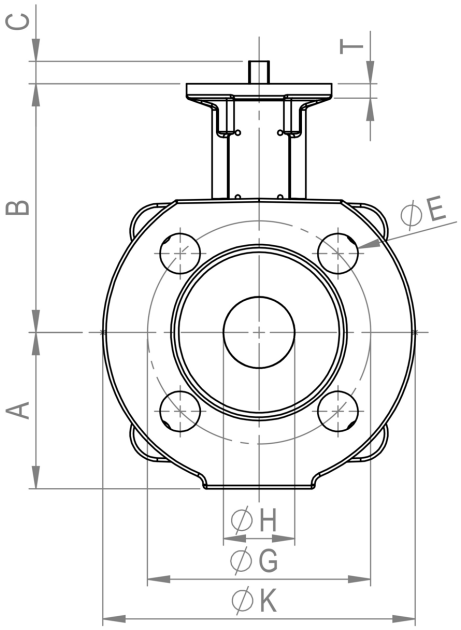


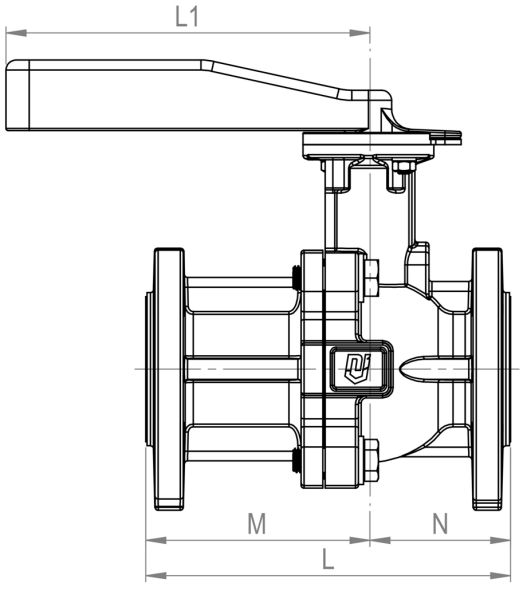
Dimensions:

PN10-16*

DN [inch]	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"	8"
øH	15	20	25	32	40	50	65	80	100	125	150	200
L	130	150	160	180	200	230	290	310	350	400	480	600
øG	65	75	85	100	110	125	145	160	180	210	240	295
øE	4x14	4x14	4x18	4x18	4x18	4x18	8x18	8x18	8x18	8x18	8x22	8x22
øK	95	105	115	140	150	165	185	200	220	250	285	340
M	76	91	98.5	-	121	144	-	185	205	-	270	-
N	54	59	61.5	-	79	86	-	125	145	-	210	-
A	50	52.5	57.5	-	75	82.5	-	105	122	-	157	-
B	103	105.5	107.5	-	151.5	156	-	197	214	-	281.5	-
C D4	10	10	10	10	19	19	24	24	24	24	29	29
MOT [Nm]3	18	18	18	18	78	78	120	120	168	204	240	360
MAST [Nm]	50	50	50	50	166	166	359	359	359	359	665	665
kg	3.9	4.8	5.4	-	11.8	15.2	-	28	39.7	-	76.7	-

*flange DN200 acc. to EN 1092-1 PN10

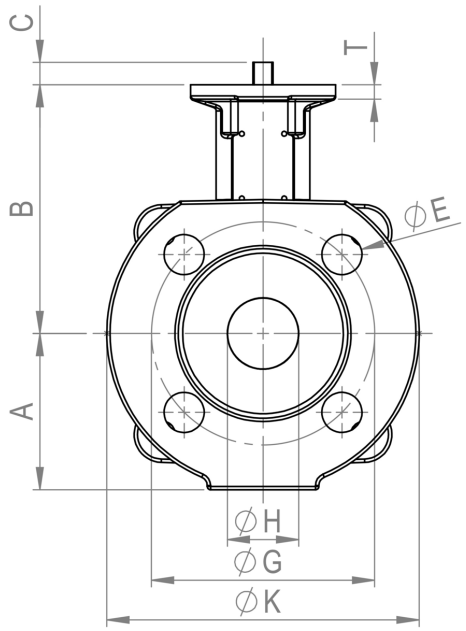


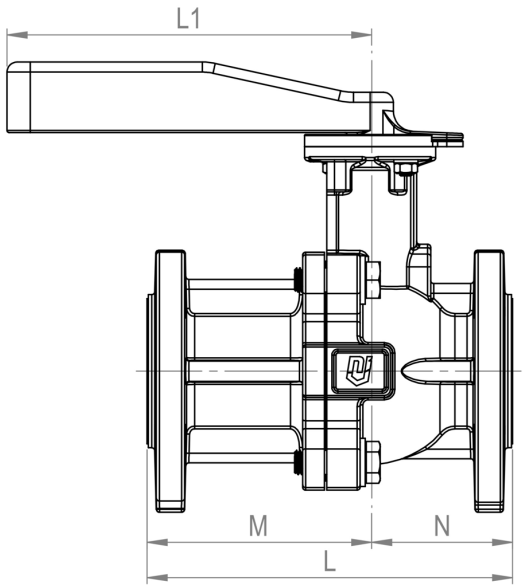


Dimensions:

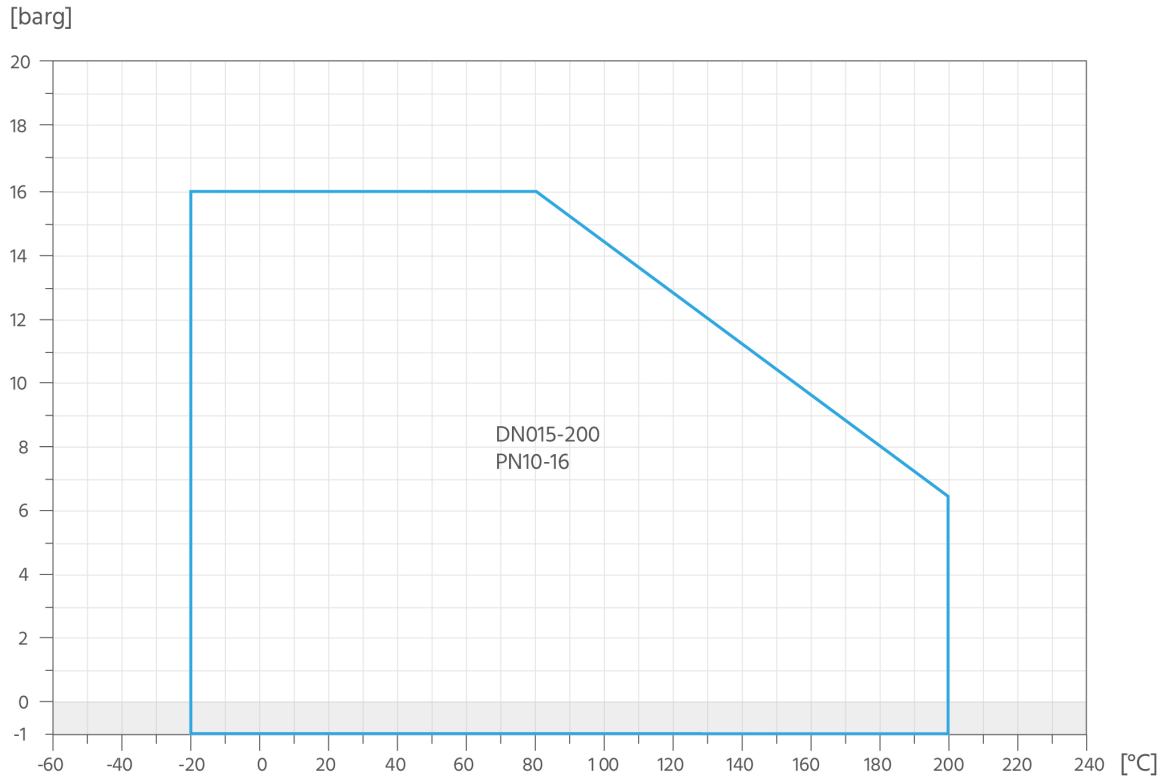
ANSI

DN [inch]	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	5"	6"	8"
øH	15	20	25	32	40	50	65	80	100	125	150	200
L	108	117	127	140	165	165	190	203	229	210	267	457
øG	60.3	69.9	79.4	88.9	98.4	98.4	139.7	152.4	190.5	215.9	241.3	298.4
øE	4x 15.9	4x 15.9	4x 15.9	4x 15.9	4x 15.9	4x 15.9	4x 19	4x 19	8x 19	8x 22.2	8x 22.2	8x 22.2
øK	90	100	110	115	125	125	180	190	230	255	280	345
M	58.5	62	66.5	73	86	86	100	104.5	117.5	109	129.5	152
N	49.5	55	60.5	67	79	79	90	98.5	111.5	101	137.5	140
A	50	52.5	57.5	61	75	75	95	105	121	135	157	182
B	103	105.5	107.5	115	151	151	182	197	214	239	281.5	285
C D4	10	10	10	10	19	19	24	24	24	24	29	29
MOT [Nm]3	40	40	40	32.5	208	208	447	447	447	447	878	878
MAST [Nm]4	50	50	50	24.6	166	166	359	359	359	359	665	665
kg	3.5	4.1	4.8		9.9	13.5		25.1	35.9		59.9	





pressure-temperature diagram:

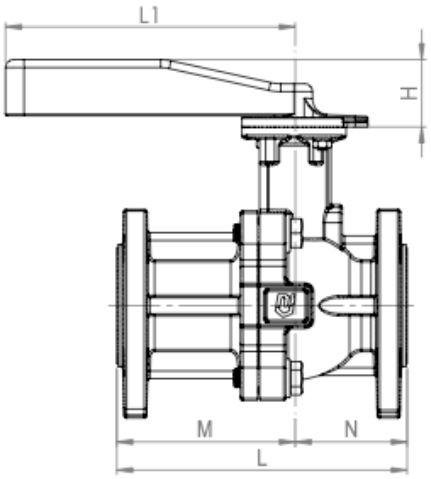


KV-Values [m^3/h]:

opening angle	DN											
	15	20	25	32*	40	50	65*	80	100	125*	150	200*
0°	0	0	0	-	0	0	-	0	0	-	0	-
10°	0	0	0	-	0	0	-	0.7	0.8	-	8.2	-
20°	0	0	0	-	0	1.3	-	5.4	11.8	-	38.7	-
30°	0	0	0.5	-	1.5	5.4	-	18.3	30.3	-	87.8	-
40°	0.05	0.2	1.6	-	5.2	12.2	-	37	61.3	-	158.6	-
50°	0.2	0.8	3.9	-	11.4	23.3	-	66.7	107.2	-	267.6	-
60°	0.7	2	7.9	-	22.2	40.8	-	112	182.7	-	429.6	-
70°	1.8	4	13.9	-	38	65	-	170.8	284.4	-	651.2	-
80°	3.4	6.1	19.2	-	51.6	85.8	-	218.4	386	-	782.6	-
90°	3.8	7	20.8	-	57.3	93	-	237.3	392	-	847.2	-

*Calculations for these flow rates are pending

Handlever:



Material	
grip	stainless steel
ratchet disc	stainless steel

DN (mm)	15	20	25	32	40	50	65	80	100	125
DN (inch)	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	4"	5"
C_h	46	46	46	46	55	55	55	55	55	55
Q	232.5	232.5	232.5	232.5	272.5	272.5	350	350	350	350
V	65	65	65	65	90	90	125	125	125	125
kg	1	1	1	1	1.5	1.5	2.7	2.7	2.7	2.7

article number:

Type	Flange	Actuator	Lining	Size
FK13	00 – PN10-16*	**0** – handlever**	**0 – PFA**	03 – DN15 ½"
	01 – ANSI	1 – gear box		04 – DN20 ¾"
		6 – without		**05 – DN25 1"**
				06 – DN32 1¼"
				07 – DN40 1½"
				08 – DN50 2"
				09 – DN65
				10 – DN80
				11 – DN100
				12 – DN125
				13 – DN150
				14 – DN200
example no. FK13010005:				
FK13	**01**	**0**	**0**	**05**

Flange ball valve made of spheroidal graphite cast iron
flange: ANSI
lining: PFA
Size: DN25

* from DN200 flange PN10
**only up to nominal size DN125

Image similar, subject change without notice.