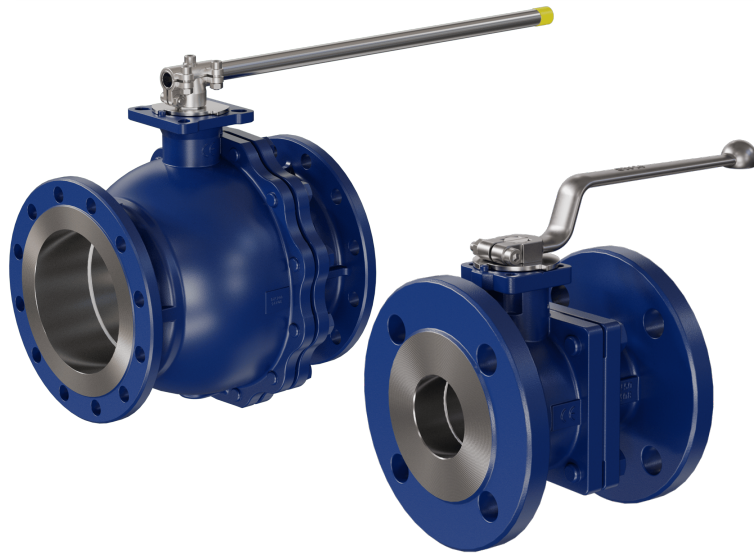


Flange ball valve carbon steel type FK12



description:

Flange ball valve in carbon steel with steel handle, ball in stainless steel. To shut off pipeline systems.

features:

- suitable for neutral and not neutral **gaseous & liquid media**
- free of silicone
- antistatic-device
- different approvals / certifications
- blow out proof stem design

connection:

DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200

construction:

full port design

pressure:

0 – 40 bar (depending on Design)

design:

Two-piece ball valve with full port design

ball:

Stainless steel 1.4408

handle:

Steel zinc plated 1.0619

face-to-face:

DIN EN 558 R 27 PN16

flange:

DIN EN 1092-1

flange connection:

EN 1092-1

mounting pad:

DIN ISO 5211

Overview of types:

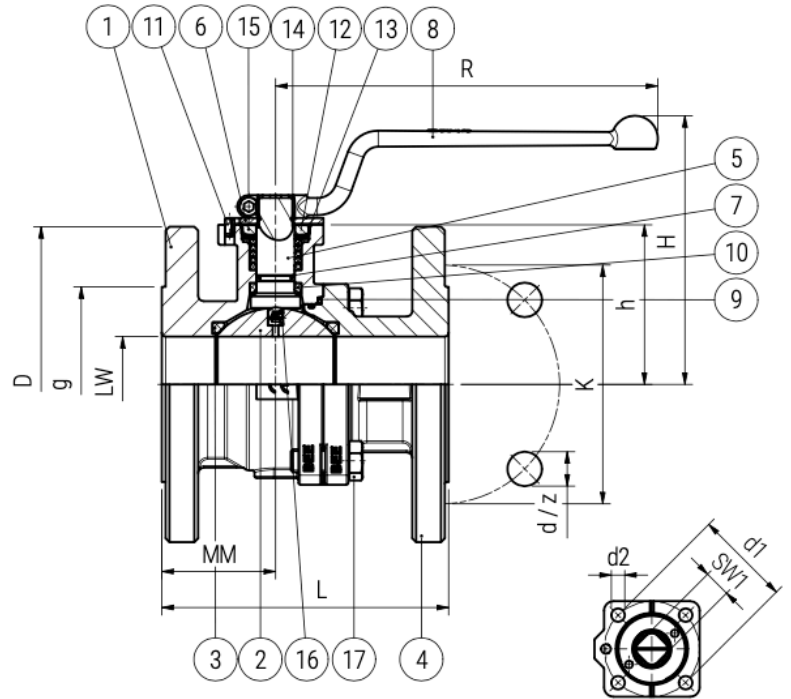
Type	ball seal & stem seal & body seal	temperature	media	pressure	dimension	leakage rate EN12226-1	certification
FK1200	Standard „E“ = PTFE GF & FKM PTFE & FKM TFM	-20°C to +180°C (depending on medium & dimension)	liquid and gaseous media	PN16	DN15-DN200	B	TA-Luft VdTÜV*
FK1200	Standard „E1“ = TFM & FKM PTFE & FKM TFM		liquid and gaseous media	PN40	DN15-DN100	B	TA-Luft VdTÜV*
FK1201	Steam „G“ = PTFE TFM & Graphite & Graphite	-20°C bis +220°C (depending on medium & dimension)	gaseous for example steam	PN16/40	PN16: DN15-DN200 PN40: DN15-DN100	A	TA-Luft VdTÜV*
FK1202	Fire Safe „S“ = TFM & FKM PTFE Graphite & FKM Graphite	-20°C bis +180°C (depending on medium & dimension)	liquid and gaseous media	PN16/40	PN16: DN15-DN200 PN40: DN15-DN100	A	Fire-Safe ISO 10497 / TÜV IS-DDB-MAN/001/08
FK1203	DVGW GAS „A“ = PTFE & FKM PTFE & FKM TFM	-20°C bis +180°C (depending on medium & dimension)	gaseous media	PN16	DN15-DN200	A	DVGW for gases acc. G260/1
FK1203	DVGW GAS „B“ = TFM & FKM PTFE & FKM PTFE-TFM		gaseous media	PN40	DN15-DN100	A	DVGW for gases acc. G260/1 Incl. 3.1 inspection + material certificate
FK1205	High temperature „D“ = Antimony - coal & Graphite & Graphite	-20°C bis +400°C (depending on media & dimension)	liquid and gaseous media**	PN16	DN20-DN100	B	TA-Luft
FK1206	High temperature „H“ = PEEK & Bronze Graphite & Graphite	-20°C bis +250°C (depending on media & dimension)	liquid and gaseous media**	PN16/40	PN16: DN20-DN100 PN40: DN20-DN100	B	TA-Luft

*for extra charge

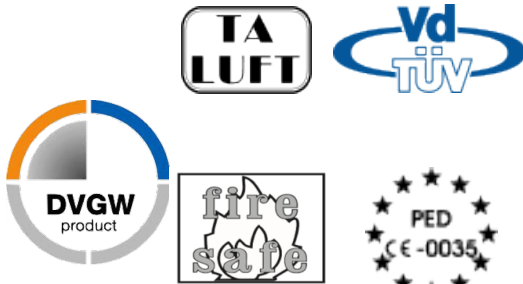
**Sealing system D & H for high temperatures are only offered after technical clarification specifying the medium, pressure and temperature

Material description:

no.	part	material
1	Body	Carbon steel 1.0619
2	Ball	Stainless steel 1.4408
3	Ball seal	*
4	Flange	carbon steel 1.0619
5	Stem	Stainless steel 1.4404
6	Stop plate	Steel zinc plated
7	Spindle seal	*
8	Handle	Steel zinc plated 1.0619
9	Body seal	*
10	Thrust washer	PTFE – GF
11	Stop pin	Steel zinc plated
12	Packing	*
13	Spring plate	Spring steel 1.4310
14	Clip ring	Spring steel 1.4310
15	Packing nut	Stainless steel 1.4404
16	Spring pressure	Stainless steel A2
17	Bolt	Stainless steel A2 70

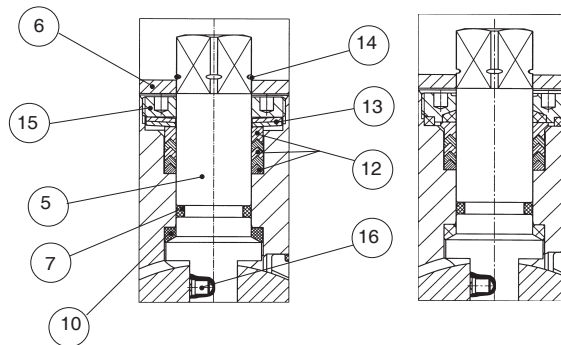


*see overview of types page 1



Standard

Fire-Safe



Dimensions:

DN	PN	LW	L	MM	H	R	SW1	h	Flange	D	g	K	z	d	d1	d2
15	16/40	15	115	47,0	100,0	140	9	43,5	F03	95	45	65	4	14,0	36	M5
20	16/40	20	120	46,5	106,0	140	9	49,0	F03	105	58	75	4	14,0	36	M5
25	16/40	25	125	46,0	109,0	165	11	59,5	F05	115	68	85	4	14,0	50	7
32	16/40	32	130	49,0	120,0	165	11	71,0	F05	140	78	100	4	18,0	50	7
40	16/40	40	140	52,0	132,5	200	14	75,5	F05	150	88	110	4	18,0	50	7
50	16/40	50	150	59,5	140,5	200	14	83,5	F05	165	102	125	4	18,0	50	7
65	16	65	170	72,0	163,0	230	17	103,5	F07	185	122	145	4	18,5	70	9
65	40	65	170	72,0	163,0	230	17	103,5	F07	185	122	145	8	18,5	70	9
80	16	80	180	70,0	195,0	360	22	118,0	F10	200	138	160	8	18,5	102	11
80	40	80	180	70,0	195,0	360	22	118,0	F10	200	138	160	8	18,5	102	11
100	16	100	190	92,0	212,5	360	22	135,0	F10	220	158	180	8	18,5	102	11
100	40	100	190	92,0	212,5	360	22	135,0	F10	235	162	190	8	22,5	102	11
125	16	125	325	141,0	244,0	556	27	167,0	F10 / F12	250	188	210	8	18,5	102 / 125	11 / 13
150	16	150	350	160,0	266,0	556	27	189,0	F10 / F12	285	212	240	8	22,5	102 / 125	11 / 13
200	16	200	400	200,0	315,0	706	27	238,0	F12 / F14	340	268	295	12	22,5	125 / 140	13 / 17

Weight:

Size DN	15	20	25	32	40	50	65	80	100	125	150	200
PN16	2,35	2,95	4,10	5,60	6,65	9,10	13,50	19,20	25,40	37,50	63,50	126,00
PN40	2,34	2,95	4,01	5,63	6,81	9,13	14,50	20,00	32,00	-	-	-

article number:

Type	sealing system*	Flange	Size
FK12	00 – standard 01 – steam 02 – Fire Safe 03 – DVGW-gas G260/1 05 – High temperature graphite** 06 – High temperature PEEK**	00 – PN16 01 – PN40	03 – DN15 04 – DN20 05 – DN25 06 – DN32 07 – DN40 08 – DN50 09 – DN65 10 – DN80 11 – DN100 12 – DN125 13 – DN150 14 – DN200

example no. FK05010005:

FK05 | **01** | **00** | **05**

Flange ball valve made of stainless steel

Sealing system: steam (PTFE/TFM + Graphite + Graphite)

Flange: PN16

Size: DN25

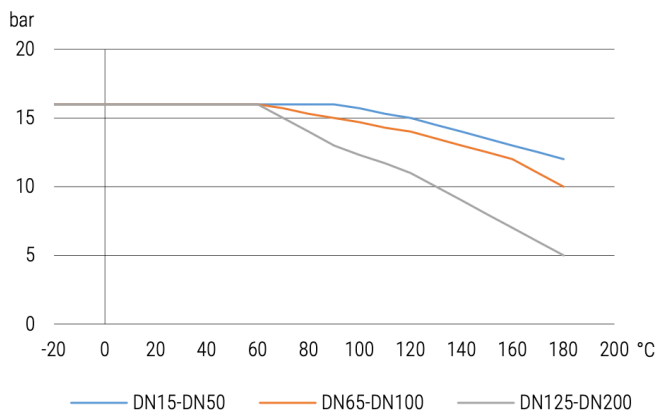
*Note: Not every sealing system can be combined with every pressure rating and every nominal size, see table on page 1.

**These sealing systems are only offered after technical clarification specifying the medium, pressure and temperature

Image similar, subject change without notice.

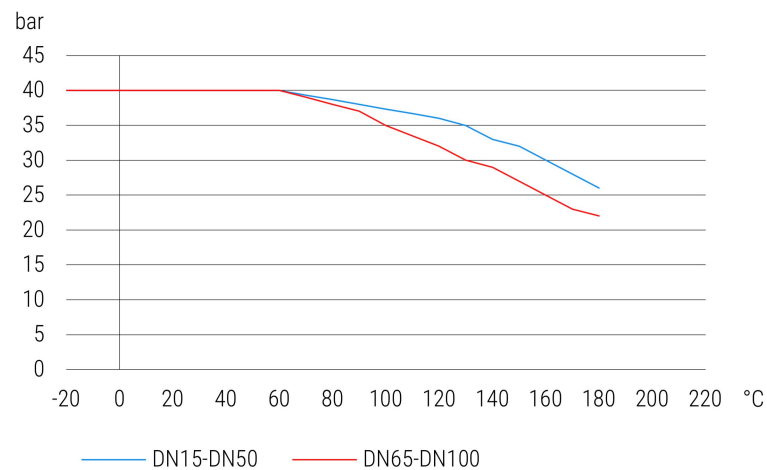
pressure-temperature diagram:

Standard version for liquid and gaseous media (flange PN16)



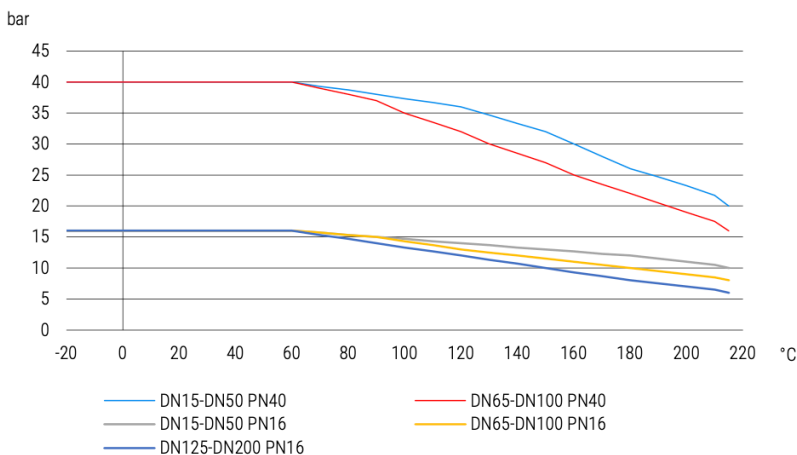
FK1200 – Standard „E”			
dimension	breakaway torque in Nm		
DN	PN0	PN7	PN16
15	5	5	5
20	8	8	8
25	9	9	9
32	18	18	18
40	25	25	25
50	30	30	30
65	40	45	55
80	60	60	65
100	90	90	105
125	105	105	120
150	120	150	190
200	250	250	400

Standard version for liquid and gaseous media (flange PN40)



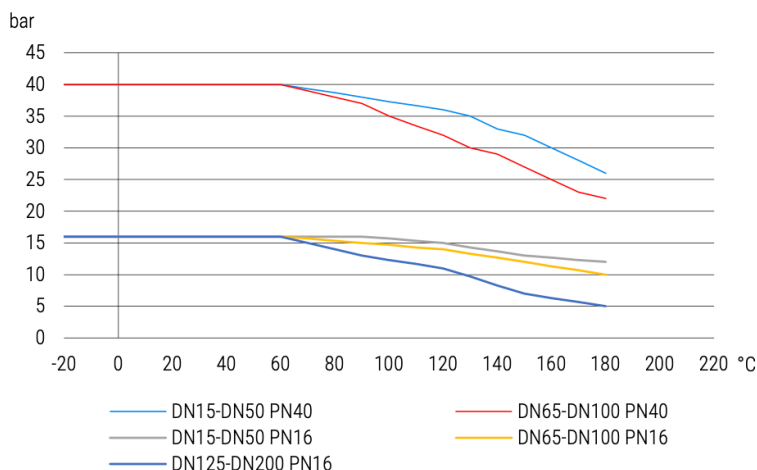
FK1200 – Standard „E1”				
dimension	breakaway torque in Nm			
DN	PN0	PN7	PN16	PN40
15	7	7	7	7
20	8	8	8	8
25	9	9	9	10
32	18	18	18	25
40	25	25	25	35
50	30	30	30	50
65	40	40	40	60
80	90	90	90	100
100	100	100	110	120

Steam version (flange PN16 & PN40)



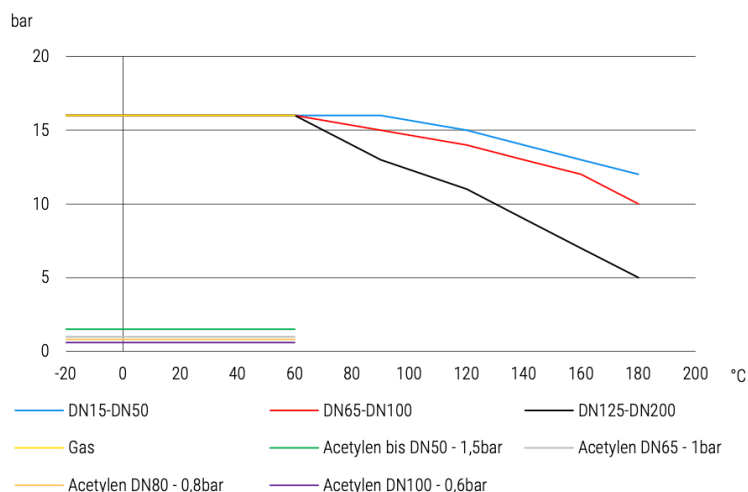
FK1201 – Steam „G”				
dimension	breakaway torque in Nm			
DN	PN0	PN7	PN16	PN40
15	7	7	7	7
20	13	13	13	13
25	15	15	15	15
32	35	35	35	35
40	40	40	40	40
50	50	50	50	60
65	60	60	60	80
80	100	100	110	130
100	110	110	120	150
125	140	140	170	
150	200	200	250	
200	400	400	450	

Fire-Safe version for liquid and gaseous media (flange N16 & PN40)



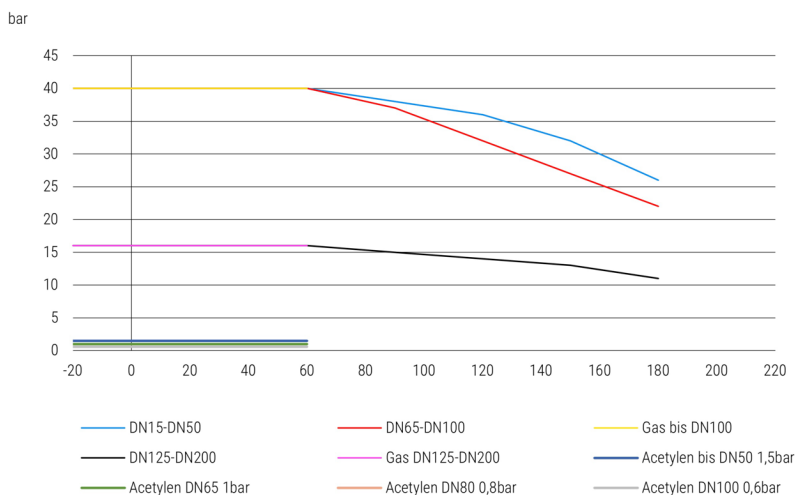
FK1202 – Fire-Safe „S“				
dimension	breakaway torque in Nm			
DN	PN0	PN7	PN16	PN40
15	7	7	7	7
20	8	8	8	8
25	9	9	9	10
32	18	18	18	25
40	25	25	25	35
50	30	30	30	50
65	40	40	40	60
80	90	90	90	100
100	100	100	110	120
125	110	110	120	
150	150	150	170	
200	300	300	350	

DVGW-gas version for gaseous media (flange PN16)



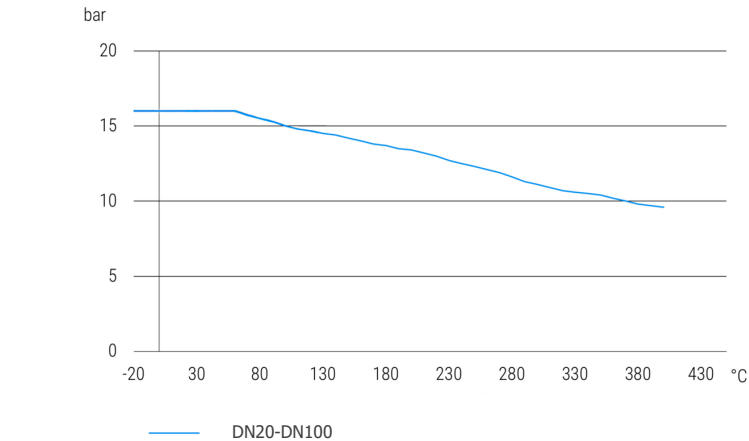
FK1203 – DVGW-gas „A“			
dimension	breakaway torque in Nm		
DN	PN0	PN7	PN16
15	4	4	4
20	8	8	8
25	9	9	9
32	18	18	18
40	20	20	20
50	30	30	30
65	55	55	55
80	85	85	95
100	100	100	110
125	115	125	145
150	180	210	230
200	400	420	450

DVGW-gas version for gaseous media (flange PN40)



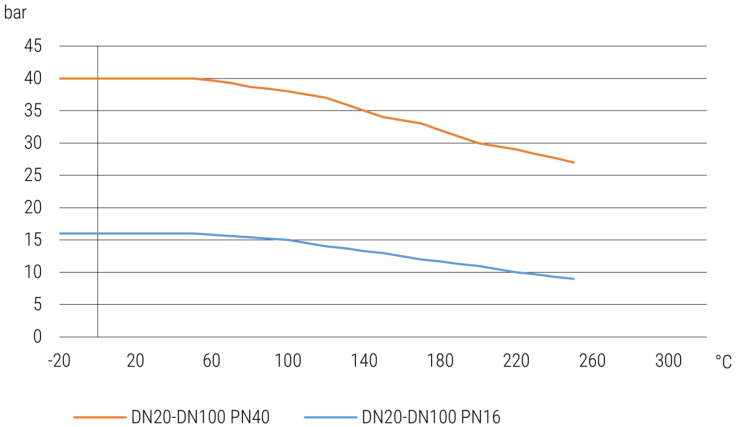
FK1203 – DVGW-gas „B“				
dimension	breakaway torque in Nm			
DN	PN0	PN7	PN16	PN40
15	7	7	7	7
20	8	8	8	8
25	9	9	9	10
32	18	18	18	25
40	25	25	25	35
50	30	30	30	50
65	40	40	40	60
80	90	90	90	100
100	100	100	110	120

High temperature version for liquid and gaseous media (flange PN16)



FK1205 – high temperature „D“			
dimension	breakaway torque in Nm		
DN	PN0	PN7	PN16
15			
20	13	13	15
25	15	15	20
32	35	35	40
40	40	40	50
50	50	50	60
65	60	80	100
80	100	120	140
100	110	140	170

High temperature version for liquid and gaseous media (flange PN16 & PN40)



FK1206 – high temperature „H“				
dimension	breakaway torque in Nm			
DN	PN0	PN7	PN16	PN40
15				
20	13	113	15	20
25	15	15	20	30
32	35	35	40	60
40	40	40	50	70
50	50	50	60	90
65	60	80	100	140
80	100	120	140	180
100	110	140	170	200