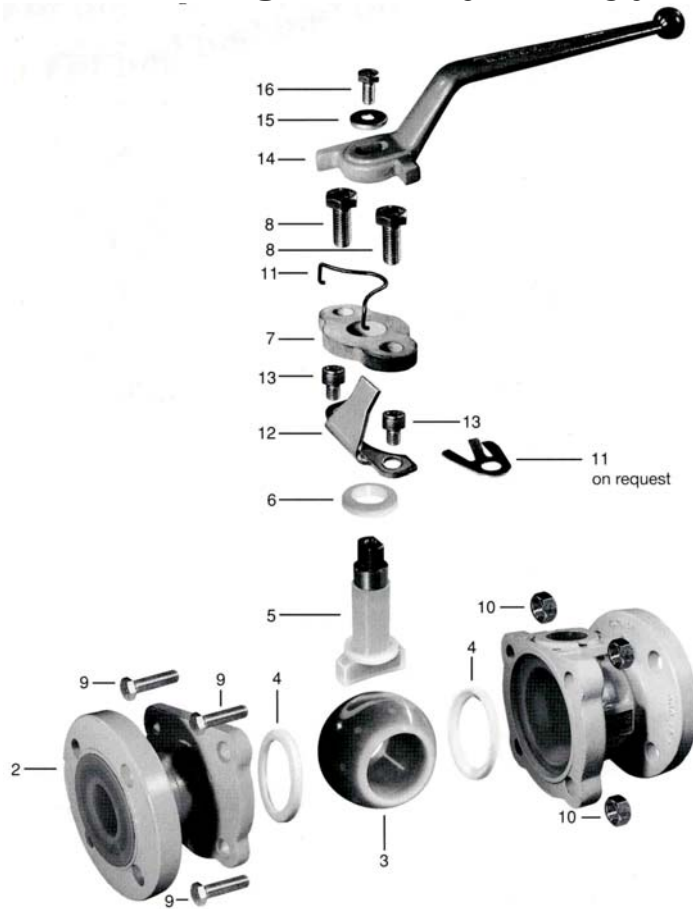


Technische Dokumentation Technical Documentation



TUFLIN® **Full Lined Ball Valve** **Type R201 / R202**

TUFLIN® Full Lined Ball Valve

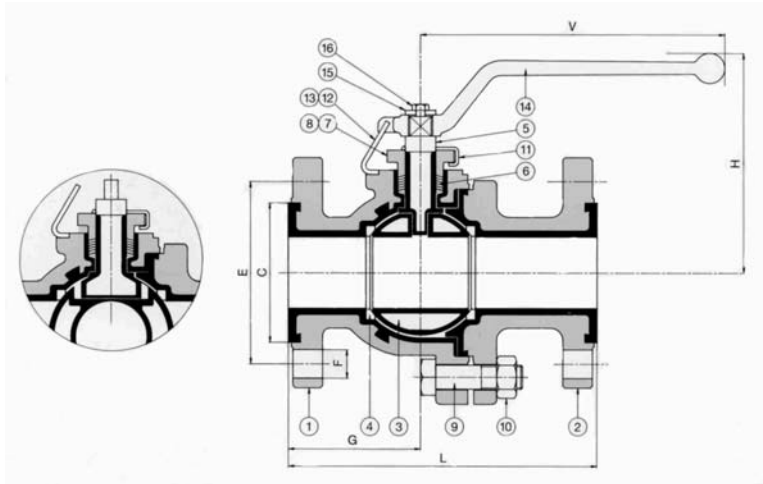


Parts Description

Item	Quantity	Part	Material
1	1	Body	EN-JS 1049 (0.7043, GGG 40.3) + FEP/PFA/PVDF
2	1	Connection flange	Stahl + FEP/PFA/PVDF
3	1	Ball	1.0619 oder EN-JS1049 (0.7043, GGG 40.3) + FEP/PFA/PVDF/AI O
4	2	Seat	Teflon®
5	1	Stem	1.4405 oder CD4MCU
6	1	Stem packing	Teflon®
7	1	Gland	1.4408
8	2	Gland screw	A4-70
9	4/8	Tie bolts	A4-70
10	4/8	Nut	A4-70
11	1	Anitstatic clip	A2
12	1	Lever thrust	A2
13	2	Thrust screw	A2
14	1	Lever	0.8135
15	1	Washer	A2
16	1	Lever screw	A4-70

TUFLIN® Full Lined Ball Valve

XOMOX Fully Lined Ball Valve Type R201
FEP-PFA-PVDF or PFA Antistatic Lined
PN 10/16 (PN 10 from DN 250/200 to DN 300)
Face-to-face dimension acc. to EN 558-1



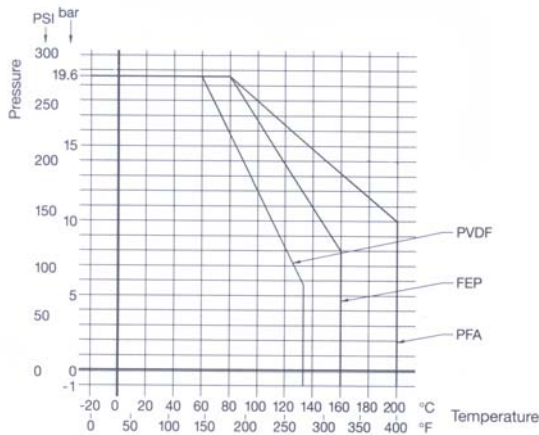
Dimensions

DN	C	E	L	G	H	V	N x F	Weight kg	ISO 5211	Face-to-Face (Basic series)
15	43	65	130	57	115	170	4 x 14	4	F05	1
20	53	75	150	66	115	170	4 x 14	5	F05	1
25	63	85	160	65	115	170	4 x 14	5	F05	1
32	74	100	180	68	129	170	4 x 18	6	F05	1
40	84	110	200	75	135	200	4 x 18	10	F07	1
50	100	125	230	87	155	200	4 x 18	14	F07	1
65	119	145	290	145	175	290	4 x 18	28	F07	1
80	134	160	310	140	195	290	8 x 18	31	F10	1
100	154	180	350	146	225	500	8 x 18	47	F10	1
150	210	240	480	240	255	500	8 x 22	86	F10	1
200	262	295	457	228.5	□		8 x 22	200	F12	12
250/200	320	350	330	165	□		12 x 22	200	F12	3
300	367	400	610	305	□		10 x 30	362	F16	12

- Flanges with raised face PN 10 for DN 200 and DN 250/200
- Thickness of lining: 3 to 5 mm
- Vacuum suitability: 6.65 mbar at max. temperature (see pressure-temperature rating)
- Gear operated

Pressure – temperature rating

TUFLIN® Full Lined Ball Valve



Operating torques (max. break torque)

DN	NPS	(Nm) 20°C – Δ P 16 bar
15	½	7
20	½	7
25	1	7
32	1 ½	7
40	1 ½	14
50	2	28
65	2 ½	42
80	3	62
100	4	94
150	6	140
200	8	500
250/200	10/8	500
300	12	1800

Actuated valves::

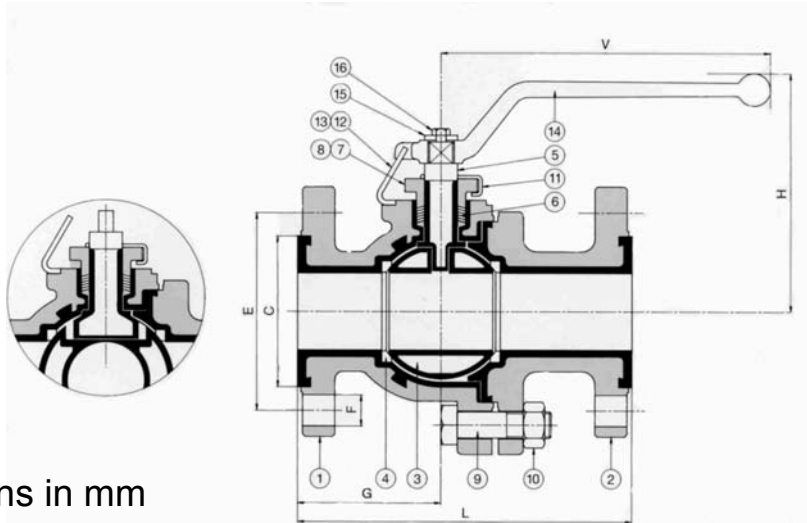
- Hand operated valve fitted with limit switches
- Valve with pneumatic actuator
- Valve with electrical actuator
- Throttling: valve with actuator and positioner

Note: Actuator mounting flange designed in accordance with ISO 5211 Standard

Rating may change according to body material (for example 17 bar max. for ductile iron according to ANSI B16.42).

Maximum design pressure from DN 200 resp. NPS 8 through DN 300 resp. NPS 12 = 10 bar.

TUFLIN® Full Lined Ball Valve



Dimensions in mm

NPS	C	E	L	G	H	V	F	Weight kg	ISO 5211
½	40	60.3	130	57	115	170	4 x ½"-UNC	4	F05
¾	50	69.8	150	65	115	170	4 x ½"-UNC	5	F05
1	51	79.4	152.3	60	115	170	4 x 16	5	F05
1 ½	73	98.4	178	75	135	200	4 x 16	8	F07
2	92	120.7	203	87	155	200	4 x 19	12	F07
3	125	152.4	241	118	195	290	4 x 19	30	F10
4	157	190.5	292	135	225	500	8 x 19	45	F10
6	216	241.5	356	190	255	500	8 x 22	76	F10
8	262	298.4	457	228.5		□	8 x 22	200	F12
10/8	320	362	330	165		□	12 x 25.4	200	F12
12	367	431.8	610	305		□	10 x 30	362	F16

- Flange with raised face B 16.5
- Thickening of lining: 3-5 mm
- Vacuum suitability: 6,65 mbar at max. temperature (see pressure-temperature rating)
- Gear operated

Flow coefficient

R201	DN	15	20	25	32	40	50	65	80	100	150	200	250/200	300
	Cv	12,6	35	57	71	213	295	630	670	1650	4780	9763	3522	18200
	Kv	10,9	31	49	61	184	255	545	580	1427	4135	8445	3046	14743

R202	NPS	1/2	¾	1	1¼	1½	2	2½	3	4	6	8	10/8	12
	Cv	12,6	35	57	71	213	295	630	670	1650	4780	9763	3522	18200
	Kv	10,9	31	49	61	184	255	545	580	1427	4135	8445	3046	14743

Flow coefficient curves can be supplied on request.

Subject to technical modifications..



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