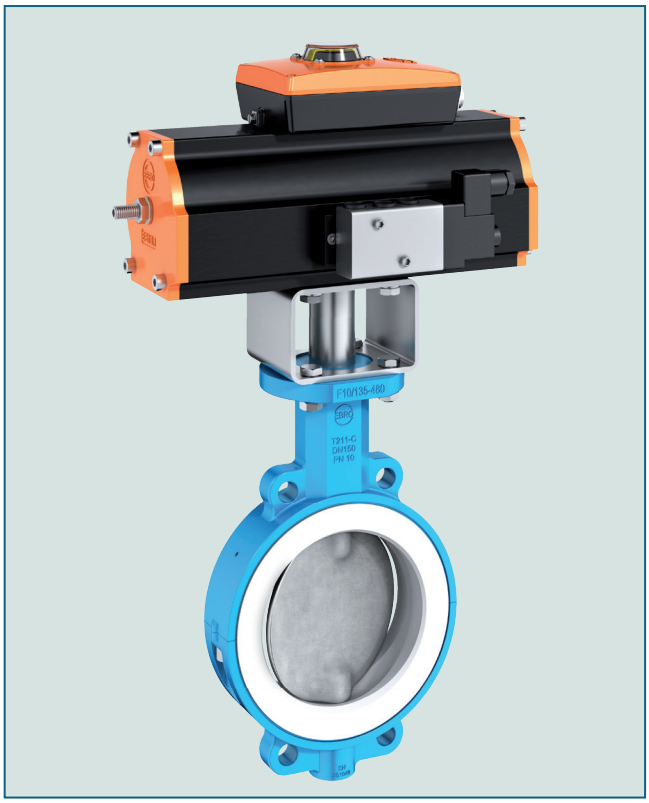
WAFER TYPE PROCESS VALVE T 211-C



PTFE-lined wafer type valve for chemically toxic and highly corrosive media.

TECHNICAL DATA

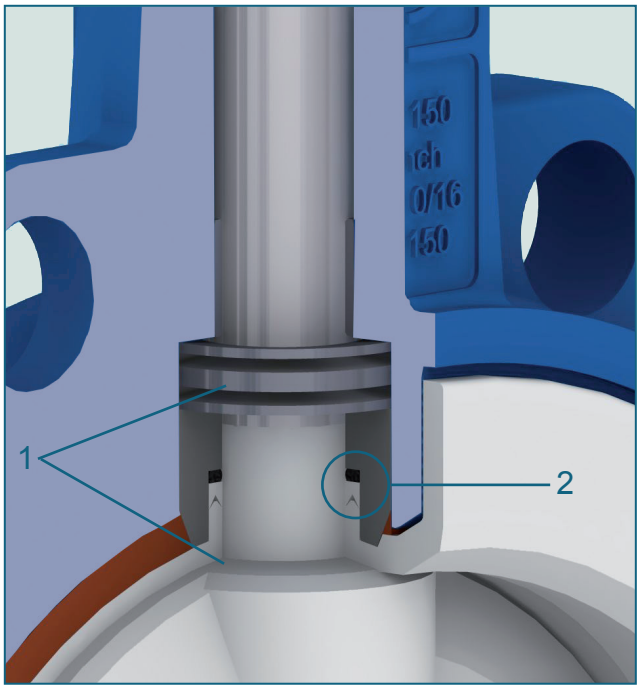
Nominal diameter:	DN (40)50 - DN 300
Face-to-face:	EN 558 Table 20
Flange accommodation:	EN 1092 PN 10/16 ASME Class 150
Flange Surface Design:	EN 1092 Form A/B ASME RF, FF
Top flange:	EN ISO 5211
Marking:	EN 19
Tightness check:	EN 12266 (Leakage rate A)
Temperature range:	-40°C to +200°C (depending on working pressure)
Operating pressure:	max. 10 bar (16 bar special version)
Vacuum:	up to1 mbar absolute, (with silicon elastomer inserts) from -10°C to +160°C

FEATURES

- Environmental protection via EBRO-Safety seal
- TA-Luft/ VDI 2440,RWTÜV certified
- Isolation height according to plant prescription
- Maintenance-free
- Can be disassembled, material-specific recycling possible
- Material conform to FDA to EG 1935/2004

DESIGN FEATURES

- Optimized low torques
- FEM dimensioned componets
- Double flat shaft acc. to EN standards
- Shaft/ disc: duplex (one-piece lost-wax casting)
- Triple shaft bearing

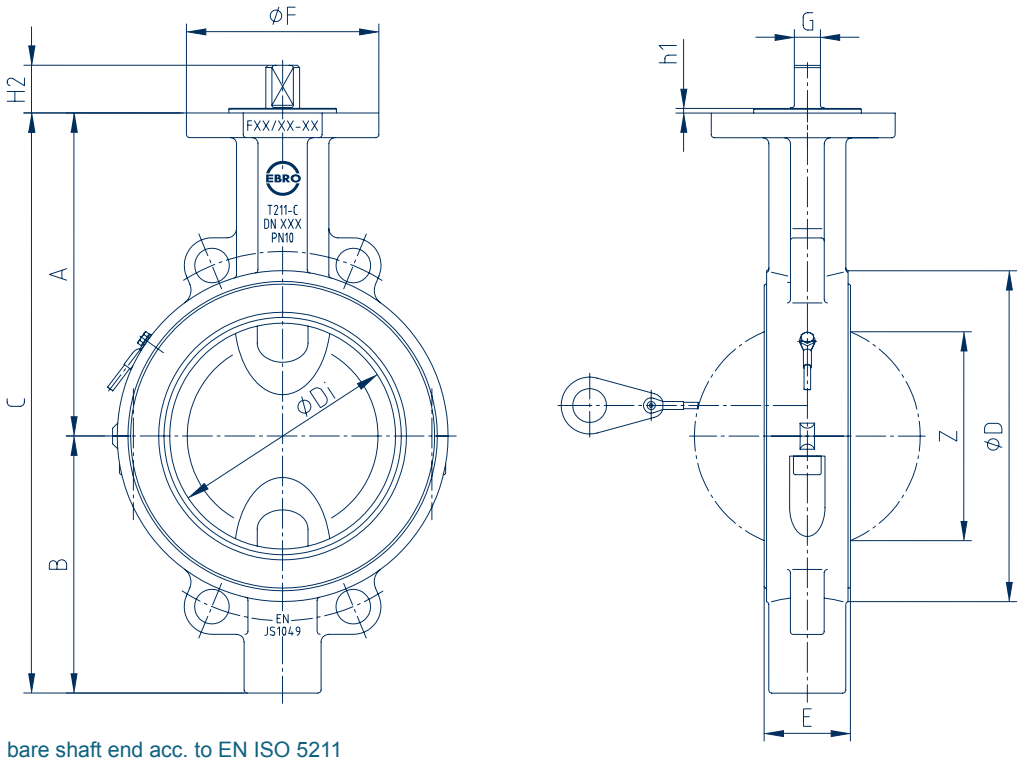


Safety seal at both shaft ends:

1.Primary sealing by means of a belleville spring washer, transmitting prestress on the spherical segment area.

2.Secondary sealing of the shaft by means of PTFE-Chevron and o-ring.

WAFER TYPE PROCESS VALVE T 211-C



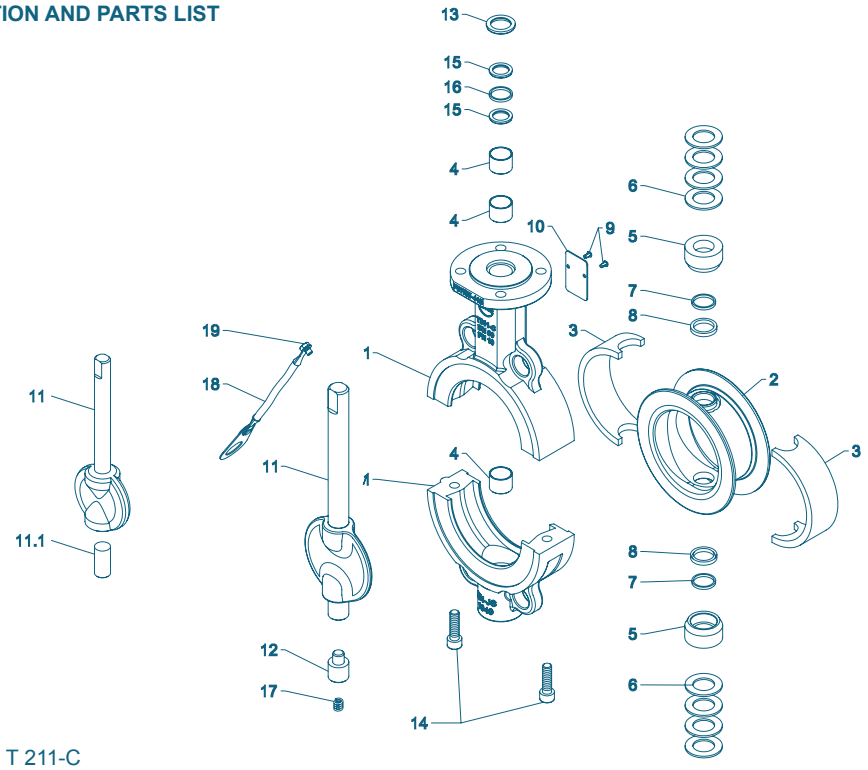
T 211-C with bare shaft end acc. to EN ISO 5211

DN [mm]	Size [in]	Dimensions [mm]												Weight [kg]
		A	B	C	ØD	ØDi	E	Flange	ØF	G	h1	H2	Z	
40/50	**1½ 2**	126	95	221	112	49	43	F07	90	11	3	22	25	3,5
65	**2½**	150	103	253	120	61	46	F07	90	11	3	22	41	4
80	**3**	157	124	281	138	80	46	F07	90	14	3	26	66	6
100	**4**	180	135	315	160	100	52	F07	90	14	3	26	85	8
150	**6**	210	167	377	215	151	56	F10	125	17	3	31	141	11
200	**8**	240	190	430	269	196	60	F12	150	17	3	31	187	18
250	**10**	275	232	507	324	248	68	F12	150	22	3	40,5	239	32
300	**12**	298	260	558	374	293	78	F14	175	22	4	41,5	283	46

Subject to change without notice

WAFER TYPE PROCESS VALVE T 211-C

MATERIAL SPECIFICATION AND PARTS LIST



Wafer type process valve T 211-C

Pos.	Description	Material	Material-No.	ASTM
1	**Body**			
	Nodular Cast Iron	EN-JS 1049	EN 1563	A395
2**	**Seat**			
	PTFE	Polytetrafluorethylene	PTFE	
	M.-PTFE	Polytetrafluorethylene	modified	
	Cond.-PTFE	Polytetrafluorethylene	conductive	
3**	**Elastomer insert**			
	Silicon	Silicon - rubber	MVQ	VMQ
4	**DU-bearing**			
	Steel / PTFE coated			
5**	**Trust collar**			
	Stainless Steel	X5CrNiMo17-12-2	1.4401	316
6	**Belleville spring washer**			
	Stainless Steel	X12CrNi177	1.4568	631
7**	**O-Ring**			
	FPM	Fluorocarbon rubber	FPM	FKM
8**	**Chevron seal**			
	PTFE	Polytetrafluorethylene	PTFE	PTFE
9	**Groove pin**			
	Stainless Steel	A2		
10	**Type plate**			
	Stainless Steel			

Pos.	Description	Material	Material-No.	ASTM
11**	**Disc/Shaft (one-piece type)**			
	St. Steel/St. Steel	X2CrNiMo22-5-3/	1.4469/	Duplex
		X2CrNiMo22-5-3	1.4469	
	St.Steel/PFA coated	X2CrNiMo22-5-3/	1.4469/	Duplex/
		X2CrNiMo22-5-3/ Perfluoralkoxy		
	St. Steel/PFA conductive	X2CrNiMo22-5-3/	1.4469/	Duplex/
		X2CrNiMo22-5-3/ Perfluoralkoxy		
11.1	**Lower shaft (DN 40/50 only)**			
	Stainless Steel	X2CrNiMoN22-5-3	1.4469	Duplex
12	**Lower shaft stup (DN 65 - DN 200 only)**			
	Stainless Steel	X39CrMo 17-1	1.4122	
13	**Wiper ring**			
	PTFE	Polytetrafluorethylene	PTFE	PTFE
14	**Screw**			
	Stainless Steel	A4-70		
15**	**Thrust ring**			
	PTFE	Polytetrafluorethylene	PTFE	PTFE
16**	**O-Ring**			
	FPM	Fluorocarbon rubber		FKM
17	**Spiral spring**			
	Spring steel	X10CrNi 18-8	1.4310	301
18	**Buttstrap**			
19	**Screw**			
	Stainless Steel	A2-70		

Above-mentioned materials of the basic version, other materials upon request

** recommended spare parts

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WAFER TYPE PROCESS VALVE T 211-C

TORQUE

- The torque values specified (Md) are based on dry media and are measured with air at a temperature of 20 °C

- The values specified are based on the initial breakaway torque (disc disengages from seat, torque then drops)

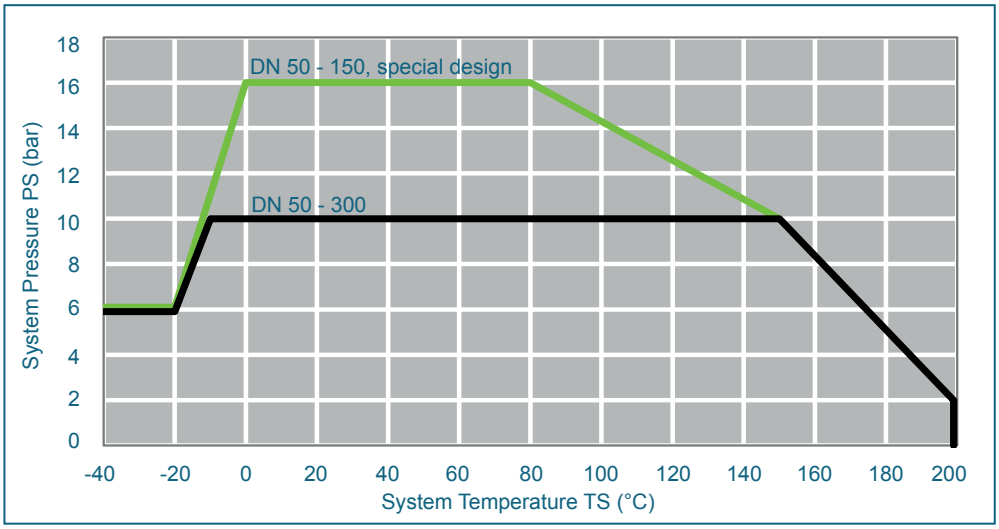
- Dynamic torque specification available upon request

Regarding the dimensioning of actuators, please contact our engineers.

DN (mm)	40/50	65	80	100	150	200	250	300
Size (in)	1½ 2	2½	3	4	6	8	10	12
MD (Nm)	35	35	55	70	135	170	320	380
MAST (Nm)*	105	105	250	250	480	480	1020	1020

*Maximum torques (Nm)

PRESSURE/TEMPERATURE DIAGRAM



Pressure-Temperature-Diagram for valves with silicone elastomer inserts

Service limitation with Fluor carbon inserts (FPM) from -10°C up to +120°C

Service limitation with EPDM elatomer inserts from -10°C up to +180°C

Vacuum service to 1mbar absolute, from -10°C up to +160°C. Valve installation between flanges

K_V-VALUES

- The K_V-value [m³ per hour] is the flow of water at a temperature of 5°C to 30°C (41°F to 86°F) at Δp of 1 bar

- The K_V-values specified are based on tests carried out by the Delfter Hydraulics Laboratories, the Netherlands

- Permissible velocity of flow
  Vmax 4,5 m/s for liquids,
  Vmax 70 m/s for gases

- The throttle function is linear at an angle 30° to 70°

- Avoid cavitation

For further values, please contact our engineers.

DN [mm]	Size [in]	Opening angle α° 20°	30°	40°	50°	60°	70°	80°	90°
1) K_V-values metal disc									
40/50	1½ 2	4	5	16	35	57	81	101	114
65	2½	5	8	25	56	99	153	216	287
80	3	13	12	30	69	131	216	328	467
100	4	13	25	61	121	207	319	459	627
150	6	50	94	171	303	509	810	1226	1778
200	8	137	149	344	696	1178	1764	2426	3137
250	10	178	291	562	1021	1699	2626	3832	5348
300	12	395	378	820	1638	2751	4079	5538	7049
2) K_V-values PFA-disc									
40/50	1½ 2	2	4	13	25	40	53	63	66
65	2½	3	9	26	48	74	98	117	126
80	3	4	14	38	71	108	143	171	186
100	4	6	16	48	95	151	209	262	303
150	6	18	60	161	317	526	787	1096	1452
200	8	125	176	395	756	1234	1807	2449	3136
250	10	138	333	644	1103	1744	2599	3702	5086
300	12	203	462	872	1479	2329	3471	4950	6814

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05.2026