

BUTTERFLY VALVES

VF-235T / VF-255T

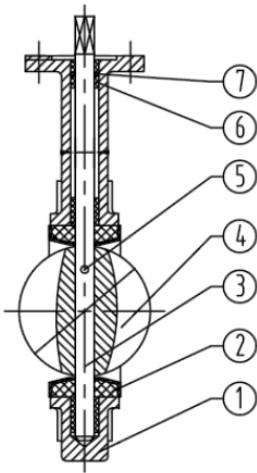


Centric butterfly valves, with vulcanized EPDM liner. The liner permits the tight between the valve body and the flanges (no gaskets are needed) and insulates the valve body from the medium.

AT.EX. Certified for zone 1 and 21

Available types

- art. VF-235T wafer
- art. VF-255T lug



Materials

N°	PARTS	MATERIALS	SPECIFICATIONS	NOTE
1	BODY	CAST IRON	GG25	-
2	SEAT	EPDM	-	-20°C/+120°C*
3	SHAFT	STAINLESS STEEL	AISI 410	-
			AISI 316	
4	DISCO	DUCTILE IRON	GGG50 + Ni	-
		STAINLESS STEEL	ASTM A351 CF8M	-
5	PIN	STAINLESS STEEL	-	-
6	BUSHING	PTFE	-	-
7	O-RING	NBR	-	-

(*) Working temperature must always be related to working pressure and chemical composition of fluid

Technical details

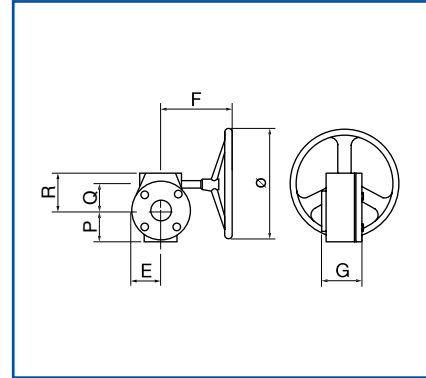
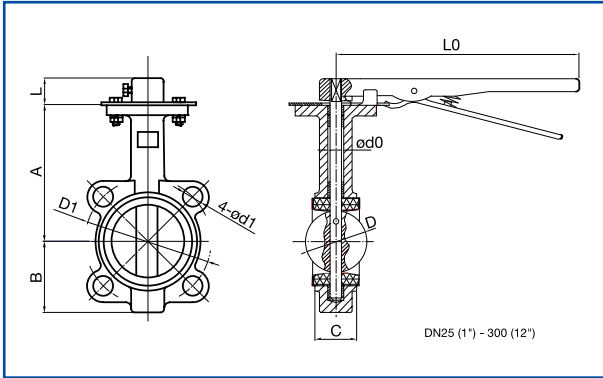
- Face to face according to DIN 3203/3-K1
- ISO 5211 upper flange for mounting of electrical or pneumatic actuator
- Valve are suitable for UNI PN 10/16 welding neck or slip-on flanges
- lever operated or gear operated
- epoxy coated painting
- working pressure: 16 bar
- Hydraulic tests according to API 598:
 - Seat: 18 bar
 - Body: 24 bar
- Pneumatic test of seat at 6 bar
- Working temperature: -20°C / +120°C
- Wafer type (VF-235T) can be installed between flanges with bolts; in case of maintenance work, the plants shall be completely empty before.
- Lugged type (VF-255T) can be installed between flanges with screw, permitting the maintenance work by disassembling one part of plant only (the valve remains installed onto one of the flanges) so, the part shall not be empty before.

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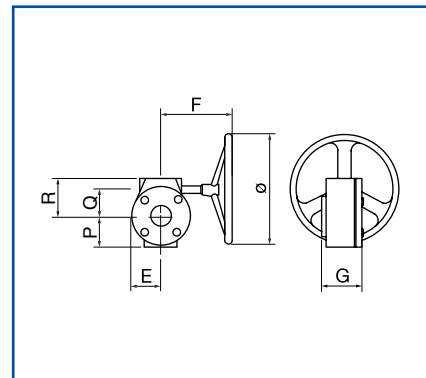
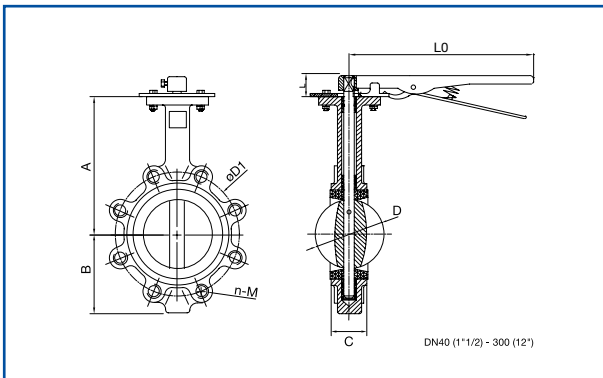


BUTTERFLY VALVES

VF-235T / VF-255T

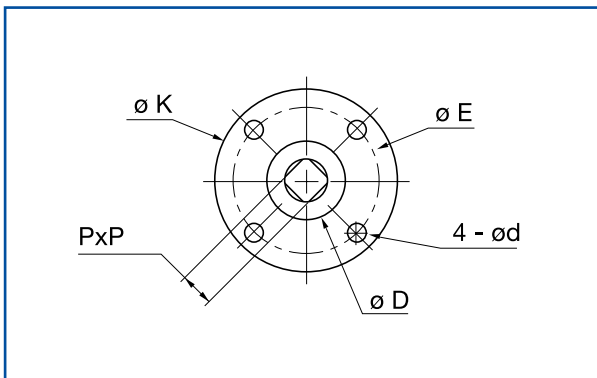
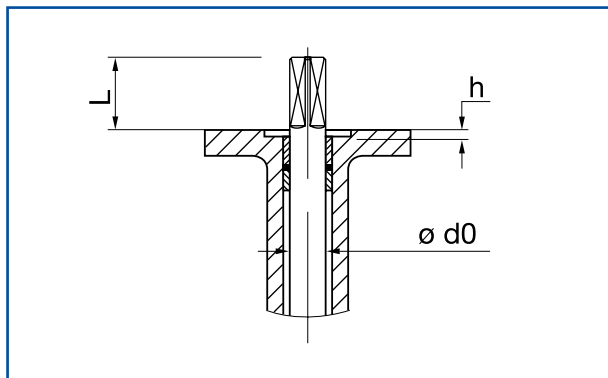


SIZE		A	B	C	D	L	L0	D1	WEIGHT kgs.			GEAR						
mm.	inch.								bare shaft	w/lever	w/gear	P	Q	R	E	F	G	ø
25	1"	116	59	33	29,9	30	232	85	1,7	2,2	6,9	-	-	-	-	-	-	-
32	1" 1/4	135	66	33	34,6	30	232	100	1,9	2,5	7,1	-	-	-	-	-	-	-
40	1" 1/2	145	75	33	42,4	32	232	110	2,2	3,0	7,4	52	45	74	52	152,5	75	150
50	2"	161	80	43	52,6	32	232	125	2,5	3,3	7,7	52	45	74	52	152,5	75	150
65	2" 1/2	175	89	46	64,5	32	232	145	3,5	4,3	8,7	52	45	74	52	152,5	75	150
80	3"	181	95	46	78,8	32	232	160	3,6	4,4	8,8	52	45	74	52	152,5	75	150
100	4"	200	114	52,1	104	32	270	180	4,8	5,7	10,0	52	45	74	52	152,5	75	150
125	5"	213	127	56	123,3	32	270	210	6,6	7,5	11,8	52	45	74	52	152,5	75	150
150	6"	226	139	56	155,6	32	270	240	8,1	9,0	13,3	52	45	74	52	152,5	75	150
200	8"	260	175	60,6	202,5	45	360	295	13,5	15,5	25,1	75	62,75	101	75	250	86	300
250	10"	292	203	65,6	250,5	45	360	350 355	19,7	21,7	31,3	75	62,75	101	75	250	86	300
300	12"	337	242	76,9	301,6	45	500	400 410	30,0	32,7	43,9	81	80	118	81	227	83	300



SIZE		A	B	C	D	L	L0	D1	n-ø	WEIGHT kgs.			GEAR						
mm.	inch.									bare shaft	w/lever	w/gear	P	Q	R	E	F	G	ø
40	1" 1/2	145	75	33	42,4	32	232	110	4-M16	3,5	4,3	8,7	52	45	74	52	152,5	75	150
50	2"	161	80	43	52,6	32	232	125	4-M16	3,8	4,6	9,0	52	45	74	52	152,5	75	150
65	2" 1/2	175	89	46	64,5	32	232	145	4-M16	4,7	5,5	9,9	52	45	74	52	152,5	75	150
80	3"	181	95	46	78,8	32	232	160	8-M16	4,9	5,7	10,1	52	45	74	52	152,5	75	150
100	4"	200	114	52,1	104	32	270	180	8-M16	8,0	8,9	13,2	52	45	74	52	152,5	75	150
125	5"	213	127	56	123,3	32	270	210	8-M16	9,7	10,6	14,9	52	45	74	52	152,5	75	150
150	6"	226	139	56	155,6	32	270	240	8-M20	11,6	12,5	16,8	52	45	74	52	152,5	75	150
200	8"	260	175	60,6	202,5	45	360	295	8-M20 12-M20	18,9	20,9	30,5	75	62,75	101	75	250	86	300
250	10"	292	203	65,6	250,5	45	360	350 355	12-M20 12-M24	28,4	30,4	40,0	75	62,75	101	75	250	86	300
300	12"	337	242	76,9	301,6	45	360	400 410	12-M20 12-M24	44,2	46,4	58,1	81	80	118	81	227	83	300

ISO 5211 UPPER FLANGE AND OPERATING TORQUE



SIZE	TORQUE Nm			Upper flange dimensions								ISO 5211
	PN6	PN10	PN16	K	E	4-d	d0	D	h	L	PxP	
DN25	8,5	9,3	9,8	70	50	4-7	12,6	35	3	30	7x7	F05
DN32	8,5	9,3	9,8	70	50	4-7	12,6	35	3	30	7x7	F05
DN40	8,7	9,5	10	70	50	4-7	12,6	35	3	32	9x9	F05
DN50	9,6	12	12	70	50	4-7	12,6	35	3	32	9x9	F05
DN65	14,5	15	15	70	50	4-7	12,6	35	3	32	9x9	F05
DN80	21	22	28	70	50	4-7	12,6	35	3	32	9x9	F05
DN100	35,3	37	43	90	70	4-9	15,77	55	3	32	11x11	F07
DN125	47,5	58	68	90	70	4-9	18,92	55	3	32	14x14	F07
DN150	84,1	94	103	90	70	4-9	18,92	55	3	32	14x14	F07
DN200	127	132	173	125	102	4-14	22,1	70	3	45	17x17	F10
DN250	210	228	286	125	102	4-14	28,45	70	3	45	22x22	F10
DN300	245	287	429	140	102	4-14	31,6	70	3	45	22x22	F10

Kv VALUE

DN	Kv								
	10°	20°	30°	40°	50°	60°	70°	80°	Full 90° open
25	0,01	0,01	0,86	1,71	3,42	5,13	6,84	8,55	9,41
32	0,01	0,86	1,71	3,42	5,13	7,70	11,12	14,54	15,39
40	0,01	0,86	1,71	4,28	6,84	10,26	14,54	19,67	20,52
50	0,09	4,28	10,26	20,52	38,48	54,72	76,95	106,88	115,43
65	0,17	6,84	17,10	31,64	55,58	83,79	123,12	174,42	188,10
80	0,26	10,26	18,81	33,35	59,85	99,18	156,47	235,13	258,21
100	0,43	14,54	30,78	66,69	117,14	196,65	311,22	466,83	513,00
125	0,68	24,80	52,16	113,72	202,64	335,16	530,10	795,15	873,81
150	1,71	38,48	81,23	175,28	312,93	517,28	819,09	1228,64	1350,05
200	2,57	76,10	160,74	348,84	621,59	1027,71	1627,07	2440,17	2683,85
250	3,42	129,11	273,60	593,37	1057,64	1750,19	2770,20	4154,45	4565,70
300	4,28	200,07	423,23	916,56	1633,91	2703,51	4279,28	6416,78	7053,75

Kv values denotes flow rate in m³/hr for water at 20°C flowing under a differential pressure 1kg/cm². When require Cv = 1.17 Kv.

SUGGESTED BOLTS TO WEAR UNI PN 10/16 FLANGES

SIZE	Art. VF235T Wafer			Art. VF255T Lug	
	no.	BOLTS DIMENSION (SCREW+STUD NUT)	TIE ROD DIMENSION	no.	SCREW DIMENSION
DN25	4	M12 x 90	12 x 120	=	=
DN32	4	M16 x 100	16 x 140	=	=
DN40	4	M16 x 100	16 x 130	8	M16 x 30
DN50	4	M16 x 110	16 x 140	8	M16 x 35
DN65	4	M16 x 110	16 x 140	8	M16 x 35
DN80	8	M16 x 120	16 x 150	16	M16 x 35
DN100	8	M16 x 120	16 x 150	16	M16 x 40
DN125	8	M16 x 130	16 x 160	16	M16 x 45
DN150	8	M20 x 130	20 x 170	16	M20 x 50
DN200 PN10	8	M20 x 140	20 x 180	16	M20 x 55
DN200 PN16	12	M20 x 140	20 x 180	24	M20 x 50
DN250 PN10	12	M20 x 160	20 x 190	24	M20 x 60
DN250 PN16	12	M22 x 160	22 x 190	24	M20 x 60
DN300 PN10	12	M20 x 170	20 x 200	24	M20 x 65
DN300 PN16	12	M22 x 170	22 x 210	24	M24 x 65



Electrical or pneumatic actuators, positioners, limit switches, solenoid valves and other equipments. Assembled on VALSAR butterfly valves.

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