OMAL S.p.A. Società Benefit
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Item 675 butterfly valve

Macro Butterfly valves

Category Other butterfly valves

PVC butterfly valve for mounting between flanges, “Wafer” type

features

STANDARD VERSION:
- Double eccentric operating principle: this construction helps to reduce seat abrasion and actuation torque lower than 50% compared to a centric butterfly valve.
- External body material: polypropylene fiber glass reinforced.
- Butterfly: PVC-C.
- Seal: EPDM.
- Working temperature: from 0°C to +80°C.
- Working pressure: see diagram.
- Application: chemicals and all kinds of fluids compatible with PVC-C and EPDM.
- Available range: from DN50 to DN300 PN 10.
- Standard flanges: from DN50 to DN300 ISO 7005 PN 10, EN 1092 PN 10, DIN 2501 PN 10, ANSI/ASME B16.5 class 150, BS 1560: 1989, BS 4504, JIS B 2220.
- F07 connection as per DIN/ISO 5211.

ON REQUEST:
- Disc: PVC-U, ABS, PP-H, PVDF.
- Seals: FPM, FPM/PTFE.
- Gear box.

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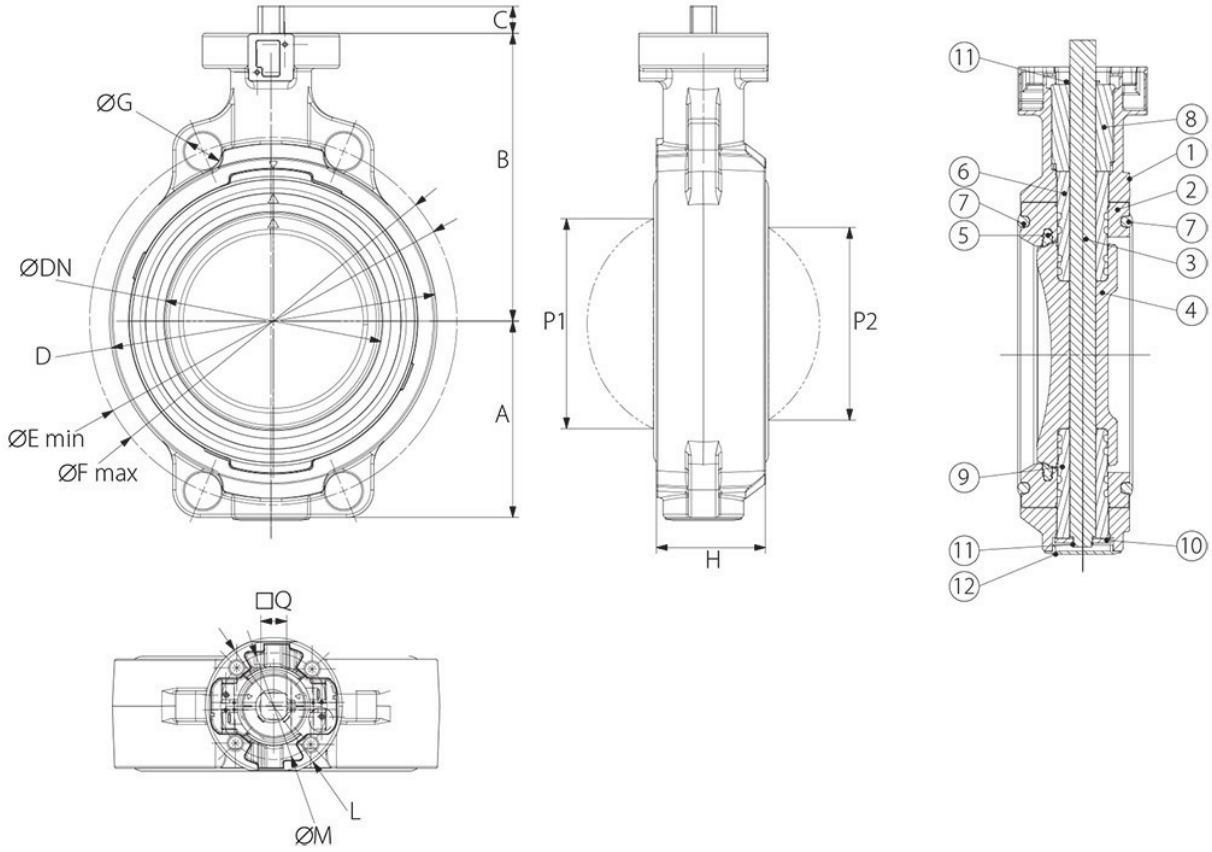
dimensions



DIMENSIONS													
SIZE		H	A	B	C	D	G	ØE min	ØF max	ØM	L	□Q	P1	P2
DN [mm]	[inch]													
DN 50	2"	45	77	134	27	104	19	120	125	70	90	11	40	40
DN 65	2" 1/2	46	83	140	27	115	19	140	145	70	90	11	54	35
DN 80	3"	49	89	146	27	131	19	150	160	70	90	11	67	50
DN 100	4"	56	104	167	16	161	19	175	191	70	90	14	88	74
DN 125	5"	64	117	181	16	187	23	210	216	70	90	14	113	97
DN 150	6"	72	130	189	19	215	24	241	241	70	90	17	139	123
DN 200	8"	73	158	210	19	267	23	290	295	70	90	17	178	169
DN 250	10"	113	205	264	40	329	25	353	362	102	125	22	210	207
DN 300	12"	113	228	285	40	379	25	400	432	102	125	22	256	253

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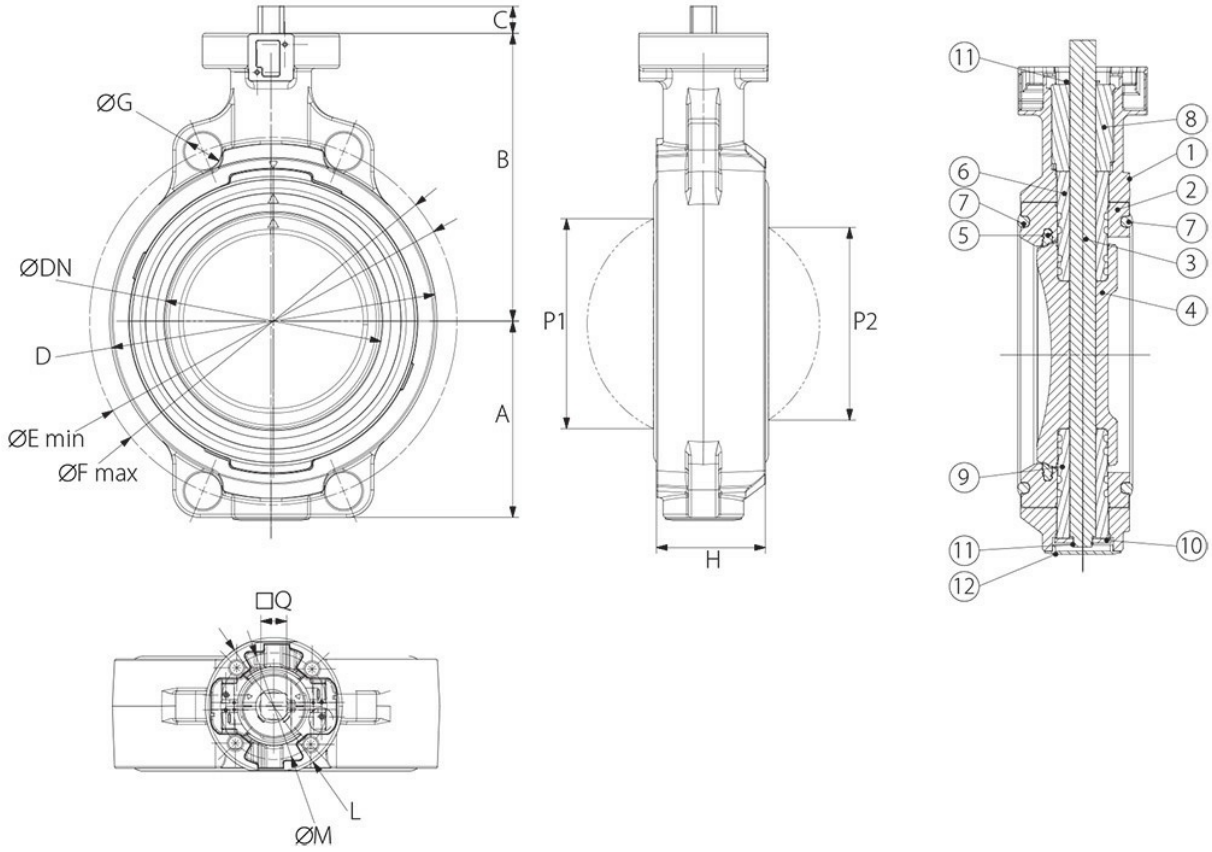
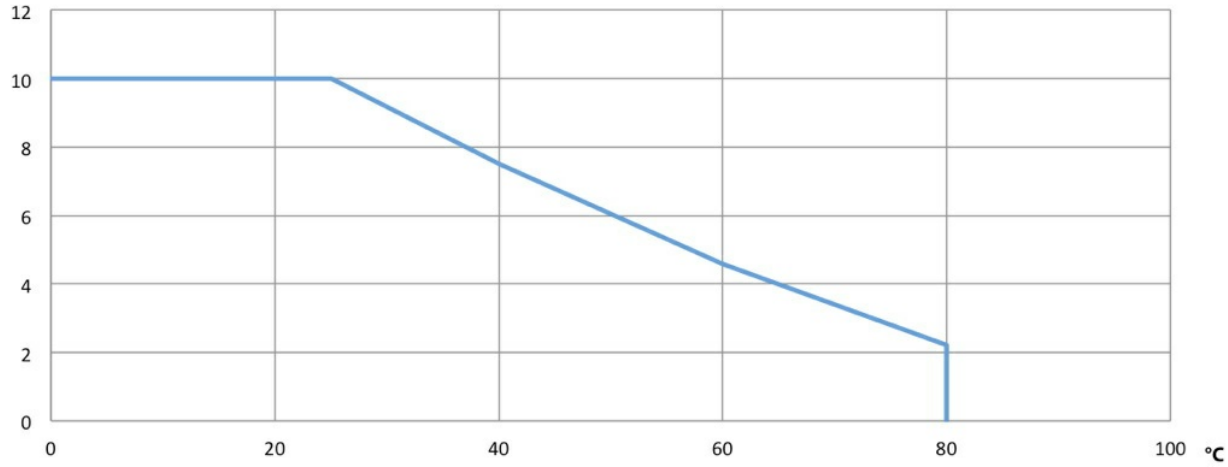
materials



MATERIALS		
1	Body	PP+GF30
2	Internal body	PVC-C
3	Stem	S.S.
4	Disc	PVC-C
5	Gasket	EPDM
6	Upper Bush	PVC-C
7	Flange gasket	EPDM
8	Stem holder bush	PP+GF30
9	Lower bush	PVC-C
10	Washer	S.S.
11	Retainer ring	S.S.
12	Shaft cover	PE

diagrams and breakaway torque

Pressure/temperature diagram



Flow-pressure loss diagram and Kv nominal coefficient

	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	
Kv100	1470	2200	3000	6500	11500	16600	39600	51000	73000	KV100 liters per minute
KV	88,2	132	180	390	690	996	2376	3060	4380	KV cubic meters / hour

Kv is the coefficient, expressed in m3/h (with water at 15°C) causing a pressure loss of 1 bar.

BREAKAWAY TORQUES Nm									
SIZE	DN 50 2"	DN 65 2"1/2	DN 80 3"	DN 100 4"	DN 125 5"	DN 150 6"	DN 200 8"	DN 250 10"	DN 300 12"
PN 10 bar	12	18	28	40	50	62	90	110	140

Torque can vary depending on temperature and type of fluid; a safety factor of 1.4 must be applied. Torque can drop on high frequency of operations. The actuator/valve sizing, indicated on the following pages, are based for valves to be used with liquids or gaseous fluids, clean, and for medium temperatures. For further information,or different uses please contact our technical department.