

SPECIFICATION

- Approved Gear Operator for both Indoor or outdoor use
- Fully Elastomer Encapsulated Ductile Iron body for Excellent Protection.
- Chrome Plate Disc with Outstanding Flow Characteristics.
- Extended Neck, Low Torque Operation.
- Options of Double Internal Supervisory Switches.
- FM Approved & UL/ULC Pending.
- Supply by: FlowCom

PRESSURE/TEMPERATURE RATINGS

Working pressure	300PSI/ 20.7 bar
Testing Pressure	Shell: 450 PSI, Seat: 330 PSI
Working temperature	EPDM ≤85°C
Suitable Media	

MATERIALS Specifications

Part	ASTM Spec.
1 Upper Stem	Stainless Steel ASTM A276 Type 420
2 Upper Bearing	PTFE Bronze Sintered on Steel
3 O-Ring	EPDM
4 Body	Ductile Iron ASTM A536 with EPDM Encapsulation
5 Disc	Ductile Iron ASTM A536 Chrome Plated
6 Lower Bearing	PTFE Bronze Sintered on Steel
7 Lower Stem	Stainless Steel ASTM A276 Type 420
8 Dust Plug	PVC
9 Name Plate	Stainless Steel
10 Gear Operator	Cast Iron and Steel
11 Indicator Flag	Cast Iron
12 Handwheel	Cast Iron

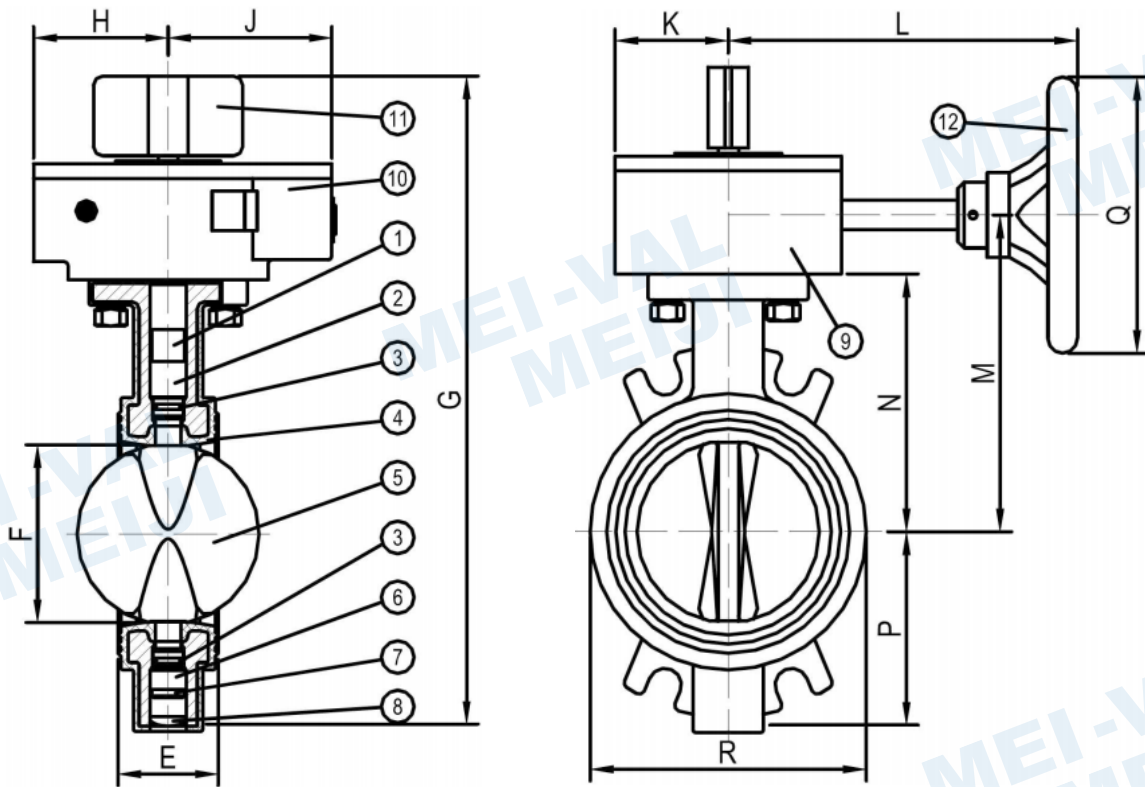


Dimension

Part Number	Size		E		F		G		H		J		K	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm
146-65	2½	65	1.93	49	2.4	61	12.32	313	2.91	74	3.54	90	2.13	54
146-80	3	80	2.05	52	2.87	73	13.19	335	2.91	74	3.54	90	2.13	54
146-100	4	100	2.17	56	3.86	98	14.33	364	2.91	74	3.54	90	2.13	54
146-125	5	125	2.24	57	4.8	122	15.51	394	2.91	74	3.54	90	2.13	54
146-150	6	150	2.32	59	5.75	146	16.89	429	2.91	74	3.54	90	2.13	54
146-200	8	200	2.48	63	7.72	196	19.57	497	2.91	74	3.54	90	2.13	54
146-250	10	250	2.83	72	9.57	243	23.35	593	3.9	99	3.98	101	3.03	77

FIG. 146, FLANGE-END BUTTERFLY VALVE, 20.7BAR/ 300PSI

Dimension																
Part Number	Size		L		M		N		P		Q		R		Wt	
	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	In.	mm	Lbs	Kg.
146-65	2½	65	5.87	149	6.3	160	4.8	122	3.03	77	5.9	150	3.94	100	21.4	9.7
146-80	3	80	5.87	149	5.83	148	5.12	130	3.54	90	5.9	150	4.81	117	22	10
146-100	4	100	7.68	195	7.01	178	5.51	140	4.29	109	5.9	150	5.91	150	24.7	11.2
146-125	5	125	7.68	195	7.56	192	6.18	157	4.8	122	5.9	150	6.89	175	27.5	12.5
146-150	6	150	7.68	195	8.35	212	6.85	174	5.51	140	5.9	150	8.03	204	41.4	18.8
146-200	8	200	7.68	195	9.96	253	8.46	215	6.81	168	9.84	250	10	258	48.7	22.1
146-250	10	250	9.49	241	11.8	295	10.2	260	8.11	206	11.8	300	12.6	321	83.7	38



Butterfly Valve Performance Date

Formulas for C_v Values

$$\Delta P = \frac{Q^2}{C_v^2}$$

$$Q = C_v \times \sqrt{\Delta P}$$

Where: Q = Flow rate (gallons per minute: GPM)

ΔP = Pressure drop across valve (PSI)

C_v = Flow coefficient

Nominal Size		Pipe O.D.	Cv (Full Open)	Nominal Size		Pipe O.D.	Cv (Full Open)	Nominal Size		Pipe O.D.	Cv (Full Open)
In.	mm	mm		In.	mm	mm		In.	mm	mm	
2½	65	73.0	221	5½OD	125	139.7	1200	8	200	219.1	3874
3OD	65	76.1	221	5	125	141.3	1200	10	250	273.0	5995
3	80	88.9	324	6½OD	150	165.1	1934				
4	100	114.3	670	6	150	168.3	1934				

