

U-TYPE BUTTERFLY VALVE

PN16 F11U16



FEATURES & SPECIFICATIONS

- U-type double flange
- Comply with BS EN593 / BS 5155 / ISO 5752 / MSS SP-67 / API 609
- Flange drilled to BS 4504 PN16 / EN1092-2 PN16 / ANSI Class 150 / JIS10K / AS 2129 Table E (Specify on order)

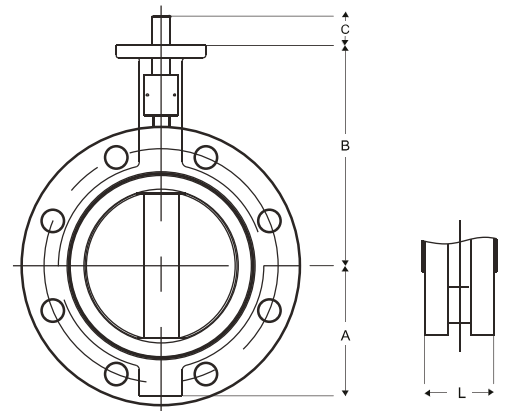


PRESSURE & TEMPERATURE RATINGS

Working Pressure	16bar
Shell Test Pressure (x1.5)	24bar
Seal Test Pressure (x1.1)	17.6bar
Working Temperature	-20°C ... 110°C (EPDM) -10°C ... 80°C (NBR)
Suitable Media	Water, Oil & Gas

MATERIAL SPECIFICATIONS

Part	Material
Body	Ductile Iron
Disc	Ductile Iron Aluminium Bronze Stainless Steel 304 Stainless Steel 316
Stem	Stainless Steel 410 Stainless Steel 431
Seat Ring	EPDM NBR
O-Ring	EPDM NBR
Bushing	Bronze

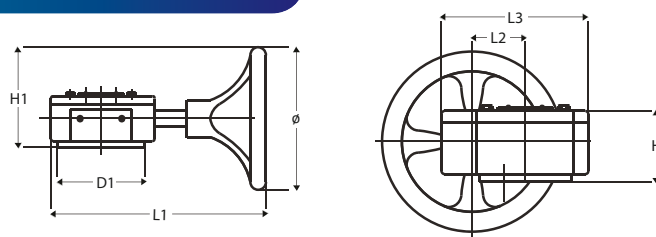


DIMENSIONS

DN	(mm)	150	200	225	250	300	350	375	400	450	500	550	(mm)
	(inch)	6	8	9	10	12	14	15	16	18	20	22	
A		133	175	190	201	242	267	320	316	344	380	432	
B		226	260	275	292	337	368	375	400	422	480	533	
C		30	34	34	34	34	40	52	52	52	64	70	
L		55	60	67	67	76	76	102	102	114	127	151	

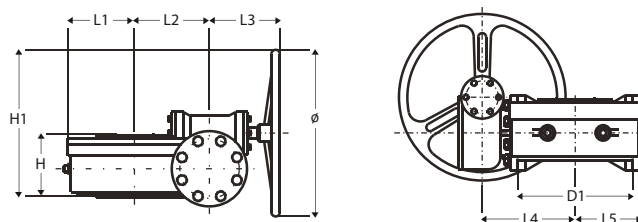
DN	(mm)	600	650	700	750	800	900	1000	1050	1100	1200	(mm)
	(inch)	24	26	28	30	32	36	40	42	44	48	
A		468	484	530	564	602	661	724	784	804	869	
B		562	540	626	660	666	722	806	865	820	938	
C		70	70	95	95	95	130	130	150	150	150	
L		151	172	165	167	188	203	216	251	252.5	276	

DIMENSIONS - VALVE OPERATOR



Cast Iron 1-Stage Worm Gear and Handwheel Carbon Steel Gear Box Shaft

VALVE DIAMETER	D1	Ø	H	H1	L1	L2	L3	(mm)
DN150	90	150	33	70	216	45	127	
DN200 - DN250	125	285	36	76	303	63.5	170	
DN300 - DN350	125	285	40	79	300	80	190	
DN375 - DN400	175	385	79	232.5	300	80	190	
DN450 - DN550	175	390	108	251	397/427	120	279	



Cast Iron 2-Stage Worm Gear and Handwheel Carbon Steel Gear Box Shaft

VALVE DIAMETER	D1	Ø	H	H1	L1	L2	L3	L4	L5
DN600 - DN650	210	285	125	271	107	100	156	168	107
DN700 - DN800	300	425	149	378	146	140	197	230	146
DN900 - DN1050	300	425	185	409	201	196	203	279	201
DN1100	350	425	185	409	201	196	203	279	201
DN1200	350	425	216	423	185	240	203	311	255

INSTALLATION & OPERATION GUIDE

1. Ensure sufficient space for valves for easy installation, operation, maintenance and replacement.
2. Verify the valves are suitable for the operating condition such as medium, operating pressure / temperature, etc.
3. Check the I.D. of the flange and pipe to ensure free disc movement.
4. Valves shall be mounted on flanges only after the counter flanges have been welded to pipe and cooled down to the atmospheric temperature. Welding heat may damage the rubber seat of the valves. Never weld the flanges with valves installed. No gasket is required for installation of rubber seated butterfly valves.
5. Position the valves carefully between flanges. Accurate centering between flanges is essential to prevent any damages and problems during operation.
6. Valves should be installed by placing bolts through the hole and tightening carefully, ensuring even contact between the flange and seat. Too tight of space may cause damages to the seat and should be avoided.
7. Cross tighten all the bolts diagonally to distribute the loads evenly over the valves.
8. Turning the valves to ensure sufficient disc clearance.
9. Valves equipped with manual operators must be operated manually. Excessive external force on the operation of valve may damage the valve and / or operator.
10. Blind flange with short pipe should be used for dead end installation.