Univial® BUTTERFLY VALVES

Attributes of Design - Wafer

Notch Plate; with position indicator and gear locking, lever locking in intermediate position when needed.

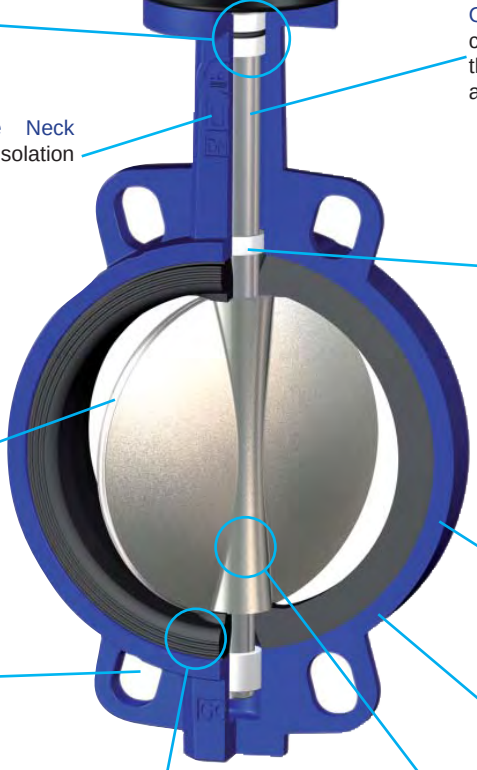
Marking according to EN19, with name plate including CE marking, valve identification and serial number for full traceability purpose.

Rugged and light Lever; Ergonomic design, trigger style with covered spring. Prepared for padlocking application to avoid undesired operation.

Top Mounting Arrangement; top flange to suit actuators as per ISO 5211 standard, square stem with bevelled edges to ease actuator coupling.

One Piece Shaft; solid, stainless steel corrosion resistant. One piece through design ensures dependability and positive disc positioning.

Extended Valve Neck enables thermal isolation in heating plants.



O-ring safety shaft sealing, with retaining washer to ensure proper working under pressure.

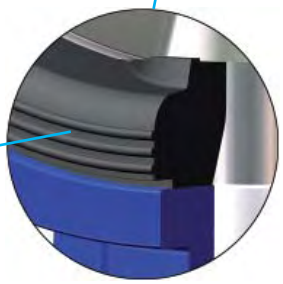
Precise Shaft Guiding System; the shaft is carried in four estrategically placed bushings preventing deflection under pressure, thus ensuring optimal guidance, positive location and long life. PTFE bushing accurate guidance reduces torque and isolates the stem from valve body, preventing stem corrosion.

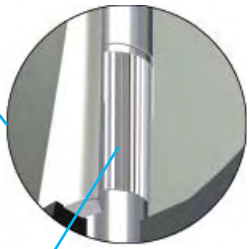
Finely Machined Disc Edges with final polishing, provides tight valve sealing and ensures minimum operating torque and longer duration of the rubber liner.

Precision Machined Body; thus the liner with shaft location can be accurately positioned to ensure minimal operation wear and extended life span.

Centring eyelets; series 700 provide full passing bolts to assemble between counter flanges ISO / DIN / EN 1092 PN10/16 and ASA 150.

Epoxy powder paint protection



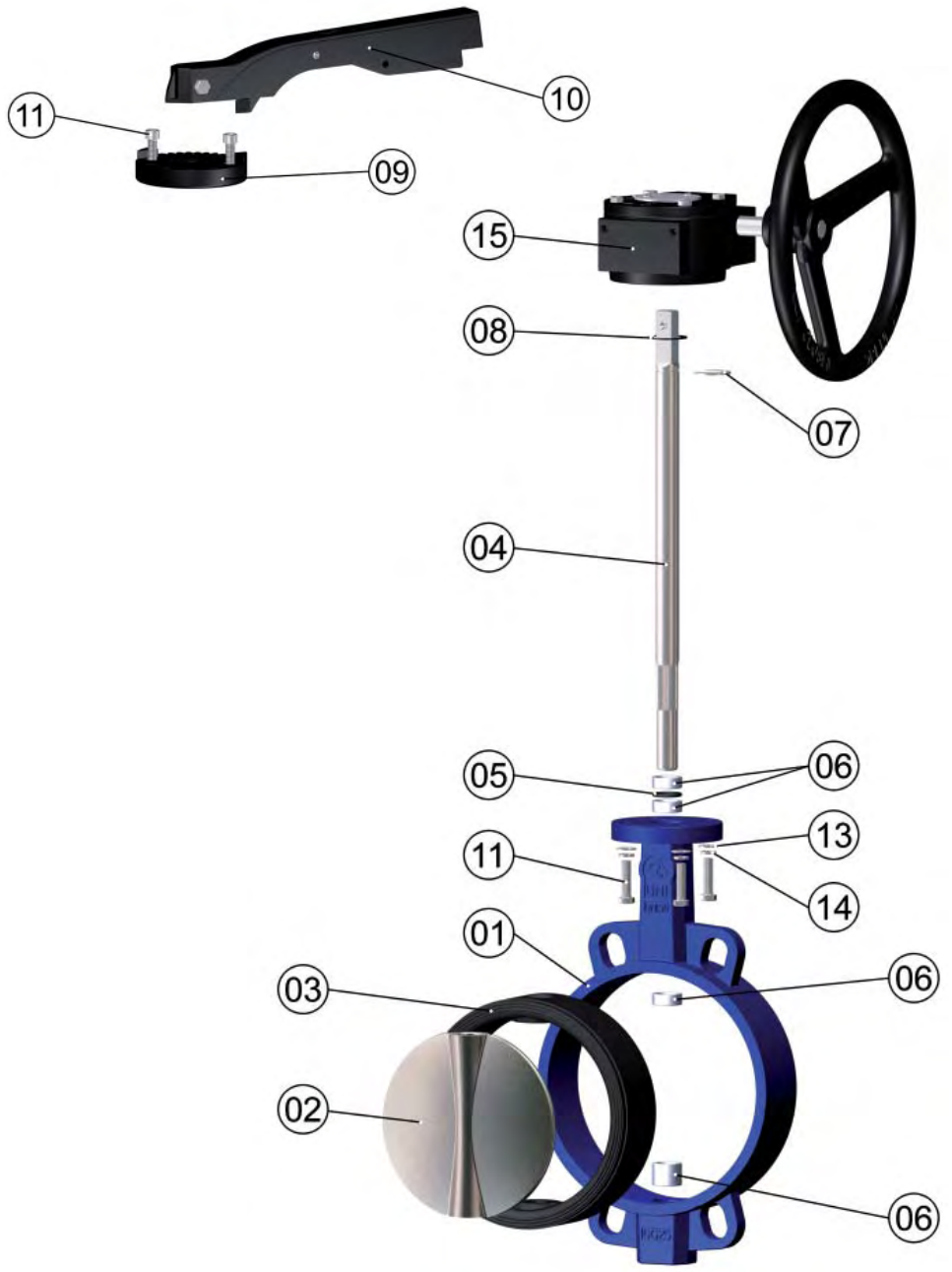


Replaceable seat liner with phenolic backed seat, up to DN400, aluminium backed seat DN450 and above,non-collapsible, stretch resistant, blow out proof, allows softer rubber liners, which ensure longer life span and better tightness.
Liner is profiled to ensure a tight shut off sealing when installing between flanges (pressure activated system), thus no need to provide gaskets between valve and counter flanges.

Shaft-Disc threaded union standard up to DN300: disc offers clean surface against the fluid, without union pins source of corrosion and turbulences in small sizes.

Unival® BUTTERFLY VALVES

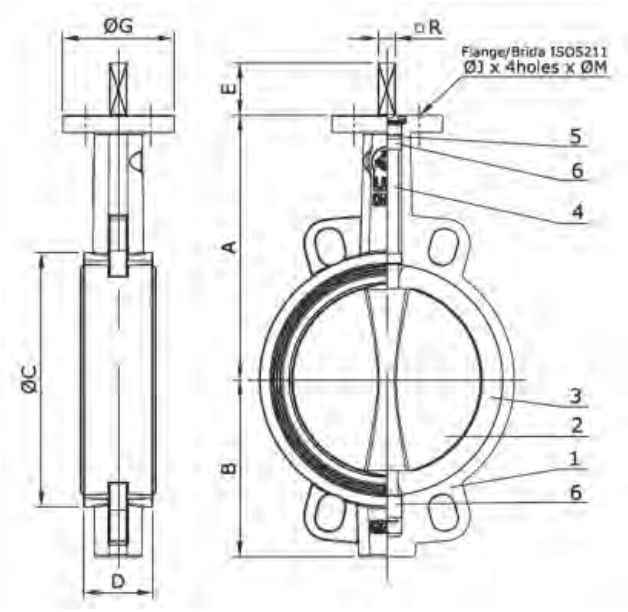
Parts and Materials - Wafer Type

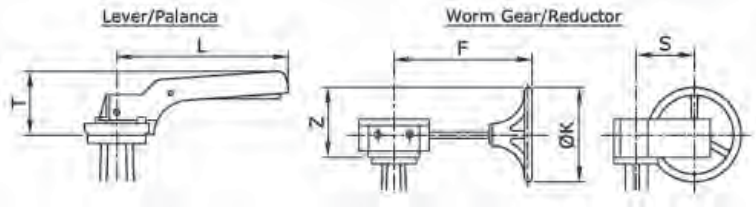


Nº	Part	Material
1	BODY	Cast Iron EN-JL1040 (GG25) / Ductile Iron EN-JS1030 (GGG40) / St. Steel A351 CF8M / Carbon Steel A216 WCB
2	DISC	Nickel Plated Ductile Iron EN-JS1030 (GGG40) / St. Steel CF8M / Al-Bronze / FEP or PFA Coated / Uranus UB6
3	LINER	NBR / EPDM / Viton / Hypalon / Silicon / PTFE / FEP / PFA
4	STEM	St. Steel AISI 416
5	O-RING	EPDM, NBR
6	BUSHINGS	PTFE
7	WASHER	Steel
8	CIRCLIP	Steel
9	NOTCH PLATE	Aluminium
10	HAND LEVER	Alumminium / Ductile Iron
11	STUDS	Steel
13	WASHERS	Steel
14	NUT	Steel
15	WORM GEAR	Ductile Iron

Univall® BUTTERFLY VALVES

Dimensions - Wafer Type DN32-600





DN	MAIN DIMENSIONS				COUPLING DETAIL					LEVER		WORM GEAR				Weight (kg)
	A	B	ØC	D	E	□R	ØG	ØJ	ØM	T	L	F	S	Z	ØK	
32	121	57	73	33	32	7x7	65	50	7	74	200	156	42	116	150	2,0
40	130	61	82	33	32	9x9	65	50	7	74	200	156	42	116	150	6,0
50	137	77	95	43	32	9x9	65	50	7	74	200	156	42	116	150	6,5
65	142	88	109	46	32	9x9	65	50	7	74	200	156	42	116	150	7,0
80	158	95	127	46	32	9x9	65	50	7	74	200	156	42	116	150	8,0
100	180	107	152	52	32	11x11	65	50	7	74	200	156	42	116	150	9,0
125	192	122	180	56	42	14x14	90	70	9	79	278	156	42	168	250	10,5
150	215	144	207	56	42	14x14	90	70	9	79	278	156	42	168	250	12,5
200	242	171	260	60	30	17x17	125	102	11	40	355	223	70	195	300	21,5
250	280	205	315	68	32	22x22	150	125	13	40	507	223	70	195	300	37,5
300	310	235	370	78	32	27x27	150	125	13	37	507	223	80	195	300	45,5
350	337	259	418	78	45	27x27	150	125	14	-	-	223	80	195	300	54,5
400	358	304	470	102	50	27x27	150	125	14	-	-	270	114	208	300	90,0
450	380	365	525	114	50	30x30	210	165	22	-	-	270	114	258	300	107,5
500	427	392	575	127	65	30x30	210	165	22	-	-	339	125	222	300	156,0
600	617	514	693	154	70	40x40	300	210	22	-	-	339	125	222	300	231,5

Dimensions are expressed in mm, and subjected to manufacturing tolerances. Data can be altered without notice by our Design Department for the product benefit.

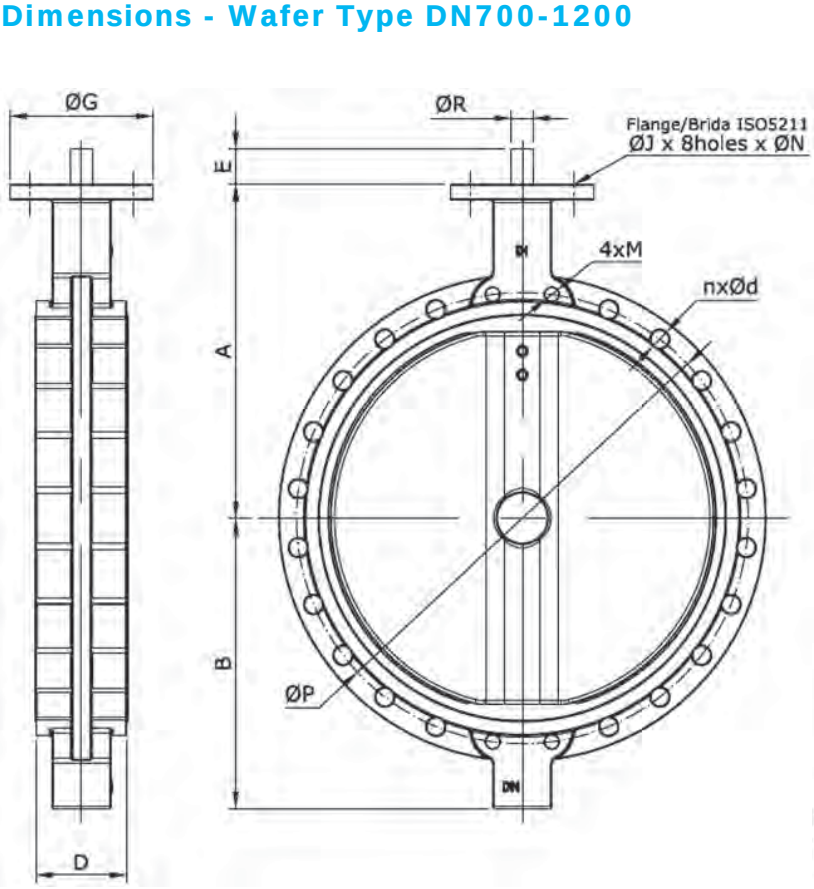
Manufacture Design Standards:
Harmonised Standard EN 593
QA certified to ISO 9001:2000
According to Pressure Equipment Directive PED 97/23/EC by a recognised Notify body
Testing standards EN12266-1 / API 598
Marking according to EN 19
Face to face dimensions according to EN558-1 Series 20
Body end connections wafer type to be installed between flanges
DN32-600: EN 1092-1/2 PN10/16 and ASA150; other connections available on request
Epoxy painted Blue RAL5002

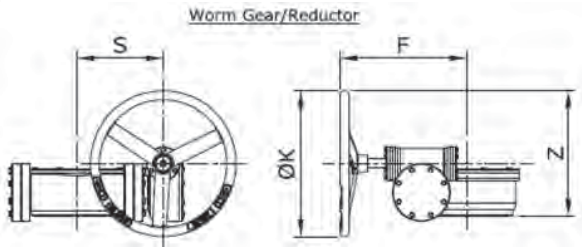
Operating Parameters:
Working pressure: 0...16 bar-g DN25-300; 0...10 bar-g DN350-600
Working temperature: according to sealing material
See Engineering Data for complete overview of operating parameters

Main Applications: Water, oil, compressed air, low pressure steam, etc.

Unival® BUTTERFLY VALVES

Dimensions - Wafer Type DN700-1200





DN	MAIN DIMENSIONS			COUPLING DETAIL					PN10 CONNECTION			WORM GEAR				Weight (kg)
	A	B	D	E	ØR	ØG	ØJ	ØN	ØP	M	nXØd	F	S	Z	ØK	
700	629	539	165	80	63,35	300	254	18	840	M27	20xØ30	357	243	382	435	372
800	666	608	190	80	63,35	300	254	18	950	M30	20xØ33	357	243	382	435	655
900	722	667	205	118	75	300	254	18	1050	M30	24xØ33	410	278	476	435	769
1000	800	732	218	142	85	300	254	18	1160	M33	24xØ36	410	278	476	435	943
1200	940	844	276	150	105	300	288	22	1380	M36	32xØ40	-	-	-	-	1472

Dimensions are expressed in mm, and subjected to manufacturing tolerances. Data can be altered without notice by our Design Department for the product benefit.

Manufacture Design Standards:
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According to Pressure Equipment Directive PED 97/23/EC by a recognised Notify body
Testing standards EN12266-1 / API 598
Marking according to EN 19
Face to face dimensions according to EN558-1 Series 20
Body end connections wafer type to be installed between flanges
DN700-1200: EN 1091-1/2 PN10 or PN16 or ASA150 other connections available on request
Epoxy painted Blue RAL5002

Operating Parameters:
Working pressure: 0...10 bar-g
Working temperature: according to sealing material
See Engineering Data for complete overview of operating parameters

Main Applications: Water, oil, compressed air, low pressure steam, etc.