



UNITEK VALVES PVT LTD

MANUFACTURER OF INDUSTRIAL VALVES



UNITEK VALVES PVT LTD
CATALOGUE

WAFER & WAFER LUGGED BUTTERFLY
VALVE



WAFER & LUGGED TYPE BUTTERFLY VALVE

Butterfly valve centered shaft LUG type connection Elastomer seat that makes it possible to work with a broad variety of fluids and provides hermetic and directional shutoff.

Simple, compact design.

They are destined for the industrial sector, construction, industrial process water, refineries, metal industries, etc.

The LUG type connection allows the valve to be connected at the end of the line.

TECHNICAL FEATURES

- TYPE: Conccentric
- working pressure: pn10/pn16
- dimensions: DN50 to DN600
- WORKING TEMPERATURE: -10°C to 120°C for EPDM, -10°C to 85°C for NBR.
- CONNECTION: LUG
- COATING: ELECTROSTATIC EPOXY RESIN, AVERAGE THICKNESS 250µm, RAL 5010
- SEAT: REPLACEABLE WITH 3 ATTACHMENT POINTS

STANDARDS

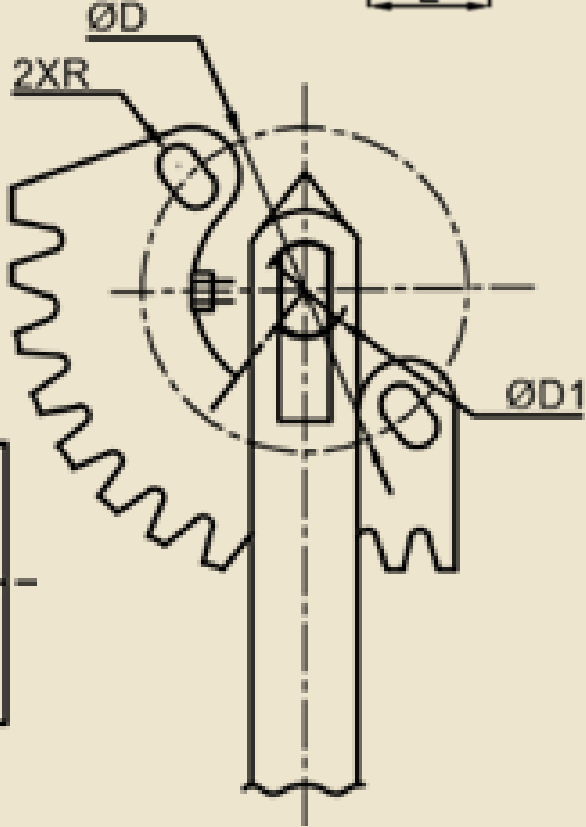
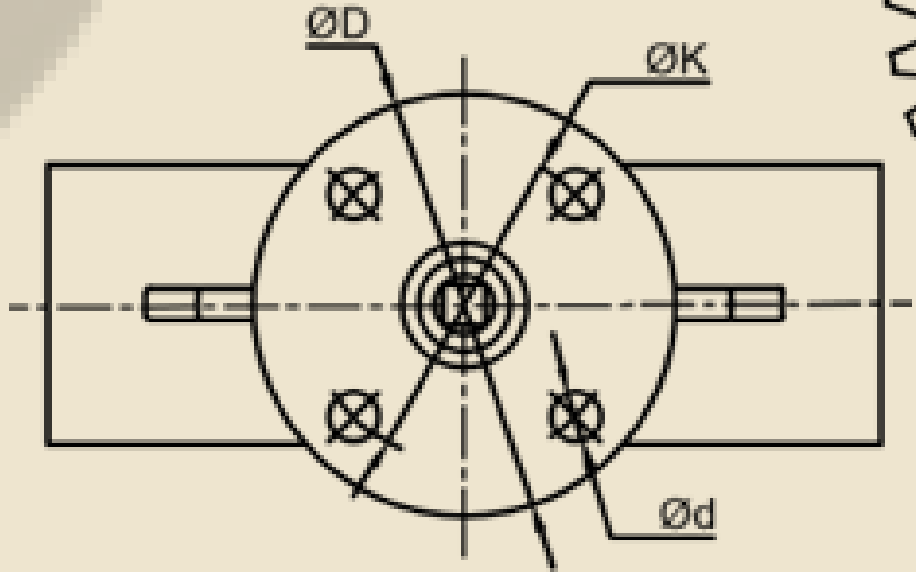
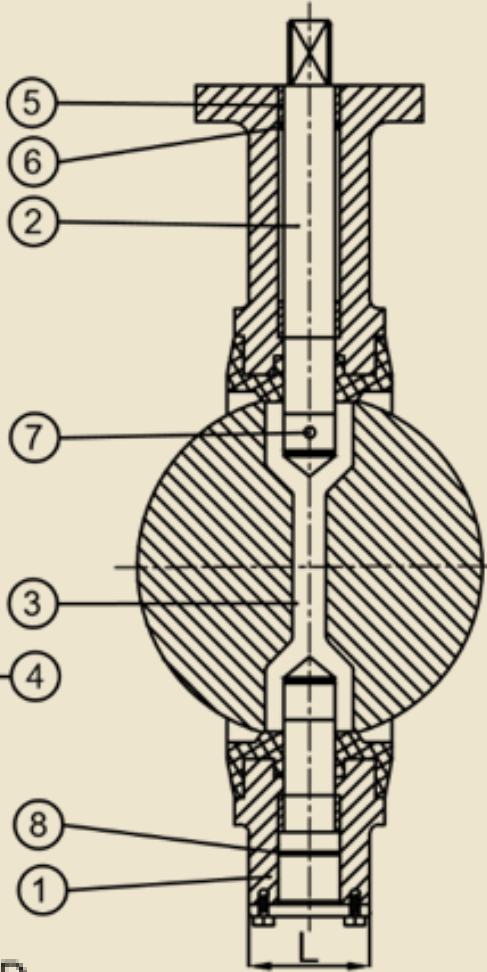
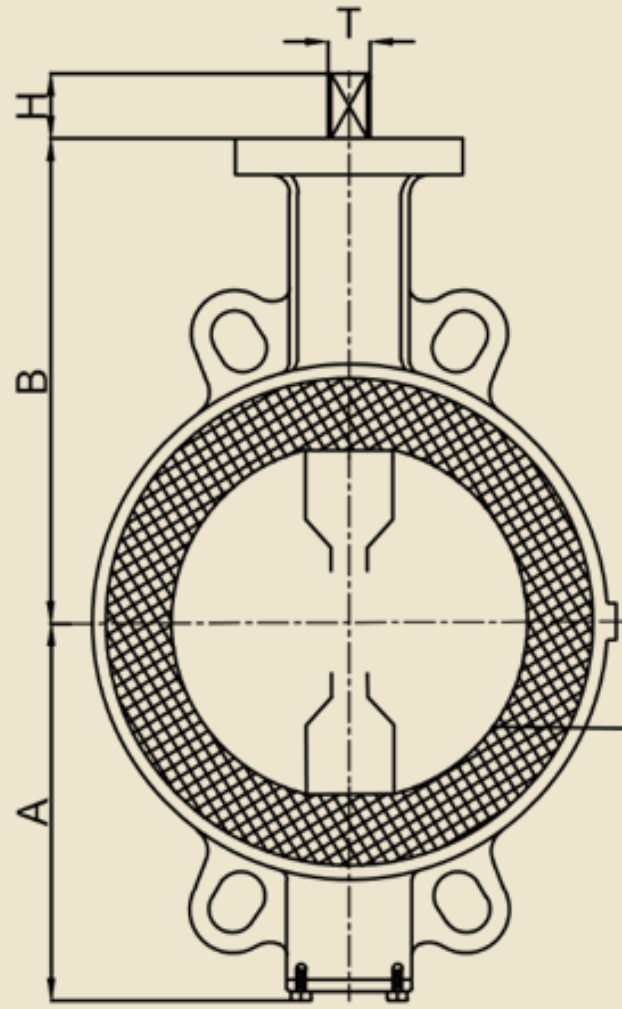
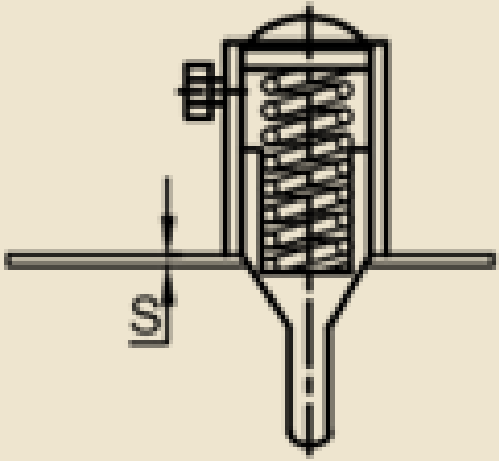
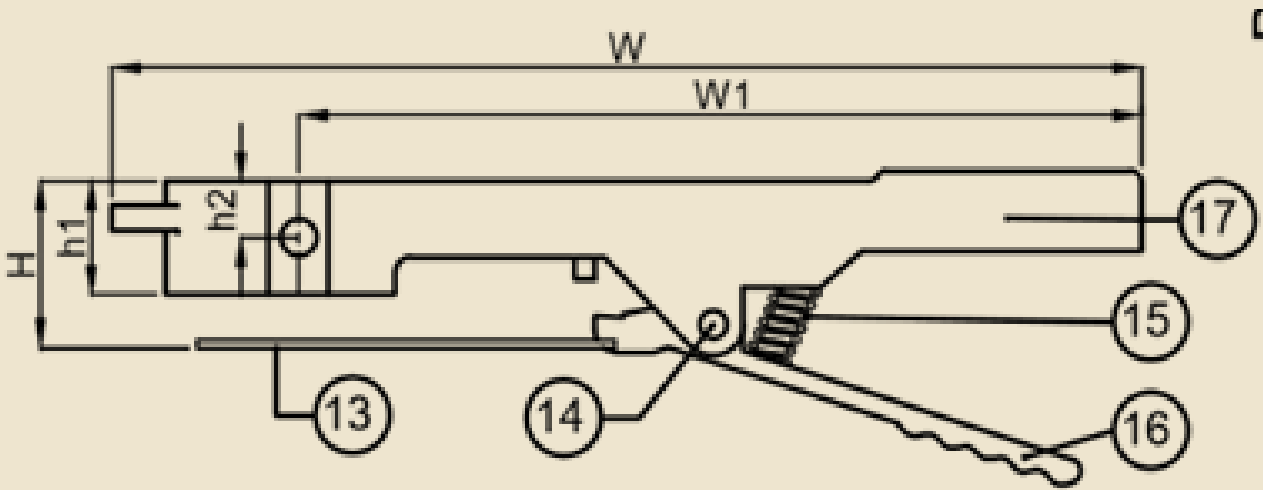
- DESIGN: EN 609 (OPTIONAL: API 593)
- FLANGES: EN 1092-2 (OPTIONAL: ASMEB16.5)
- DISTANCE BETWEEN SIDES: ISO 5752-20 / EN 558-1 SERIES 20.
- COUPLING FLANGE: ISO 5211.
- TESTS : EN 12266-1 / EN 1079 / ISO t208 / API 598.
- COATING: ISO 12944.





WAFER LUGGED TYPE BUTTERFLY VALVE PN10 / PN16

LEVER



TOP FLANGE

MATERIAL SPECIFICATION

P. NO.	PART DESCRIPTION	MATERIALS
1	BODY	IS 210 Gr. FG 200 / 220 / CS ASTM A216 Gr. WCB / SG IRON / SS 304 / SS 316
2	SHAFT	AISI 410 / AISI 304 / AISI 316
3	DISC	IS 210 Gr. FG 200 / 220 / CS ASTM A 216 Gr. WCB / SG IRON / SS304 / SS 316
4	SEAT	MOULDED / REPLACEABLE NITRILE / EPDM / SILICON / VITON / HYPOLON / PFA / PTFE
5	BUSHING	PTFE
6	PACKING	EPDM / NBR / BUNA-N
7	TAPER PIN	HARDENED STEEL
8	O-RING	BUNA-N / EPDM
9	INDICATOR	CARBON STEEL
10	SPRING PIN	SPRING STEEL (65Mn)
11	SPRING	SPRING STEEL (65Mn)
12	SIDE LEVER	CARBON STEEL
13	MAIN LEVER	CARBON STEEL

Note: Other materials and specifications can be provided on request.

DIMENSIONAL DATA

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
NPS (in)	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
A	62	72	87	106	123	138	173	207	250	267	312	330	363	459
B	141	153	161	178	193	204	247	280	324	368	400	425	485	565
L	43	46	46	52	56	56	60	68	78	78	102	114	127	154
ØD	PN10	125	145	160	180	210	240	295	350	400	460	515	565	725
	PN16	125	145	160	180	210	240	295	355	410	470	525	585	770
ØD1	90	90	90	90	90	90	125	125	125	140	175	175	175	200
ØD2	70	70	70	70	70	70	102	102	102	102	140	140	140	165
nXØd	4XØ10	4XØ10	4XØ10	4XØ10	4XØ10	4XØ10	4XØ12	4XØ12	4XØ12	4XØ12	4XØ18	4XØ18	4XØ18	4XØ23
nXM	PN10	4XM16	4XM16	8XM16	8XM16	8XM16	8XM20	8XM20	12XM20	12XM20	16XM20	16XM24	20XM24	20XM27
	PN16	4XM16	4XM16	8XM16	8XM16	8XM16	8XM20	12XM20	12XM24	12XM24	16XM24	16XM27	20XM27	20XM33
T	11	11	11	11	14	14	17	22	22	22	27	27	32	36
H	32	32	32	32	32	32	45	45	45	45	50.8	50.8	57.5	70
Wt.kg approx.	4.3	4.7	4.9	9.1	12.1	13.2	19.5	29.5	49	72	90	111	123	178

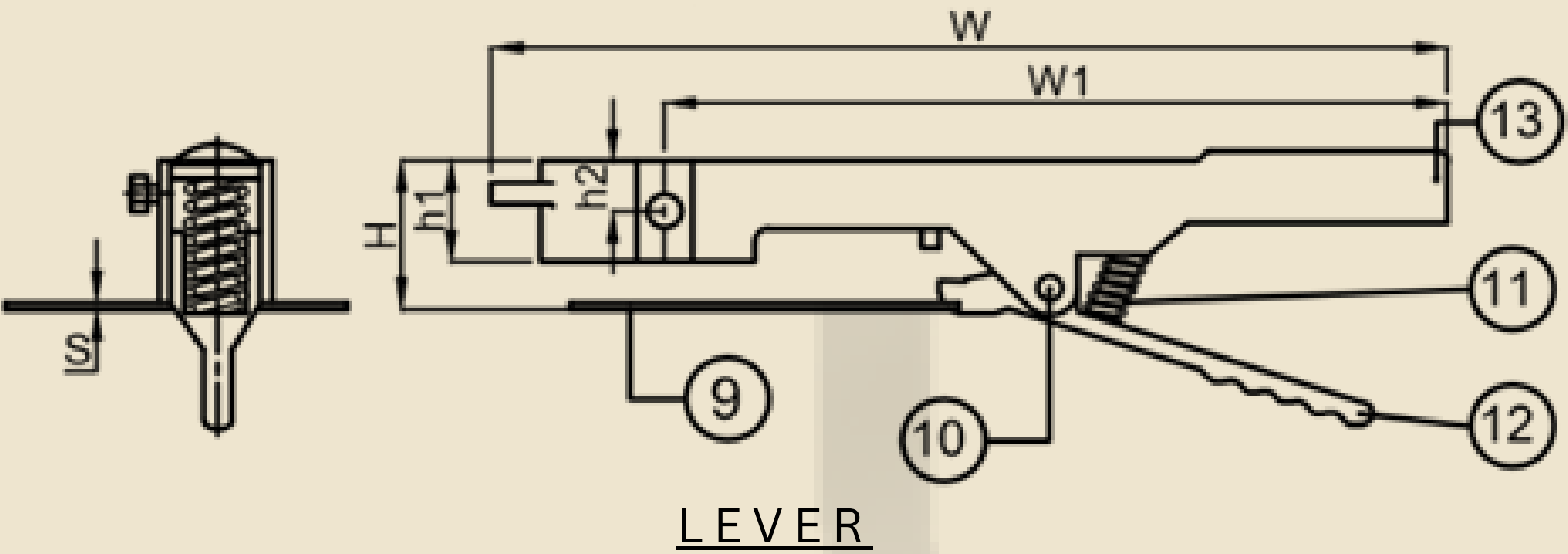
NOTE: The above data is subject to change without any notice due to our continuing product improvement program.

LEVER DIMENSIONS

DN	50 to 80	100	125 to 150	200
NPS (in)	2 to 3	4	5 to 6	8
W	234	290	290	400
W1	216	265	265	374
H	32	32	32	32
h1	22	25	25	29
h2	9	10	10	14
S	3	3	3	3
Ø D	50	70	70	70
Ø D1	12.6	15.77	18.92	22.1
2XR	2XR3.5	2XR5	2XR5	2XR5
Wt.kg approx.	0.4	0.59	0.59	0.93



WAFER CONNECTION BUTTERFLY VALVE PN6 / PN10 / PN16



MATERIAL SPECIFICATION

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1	BODY	IS 210 Gr. FG 200 / 220 / CS ASTM A216 Gr. WCB / SG IRON / SS 304 / SS 316
2	SHAFT	AISI 410 / AISI 304 / AISI 316
3	DISC	IS 210 Gr. FG 200 / 220 / CS ASTM A 216 Gr. WCB / SG IRON / SS304 / SS 316
4	SEAT	MOULDED / REPLACEABLE NITRILE / EPDM / SILICON / VITON / HYPOLON / PFA / PTFE
5	BUSHING	PTFE
6	PACKING	EPDM / NBR / BUNA-N
7	TAPER PIN	HARDENED STEEL
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9	INDICATOR	CARBON STEEL
10	SPRING PIN	SPRING STEEL (65Mn)
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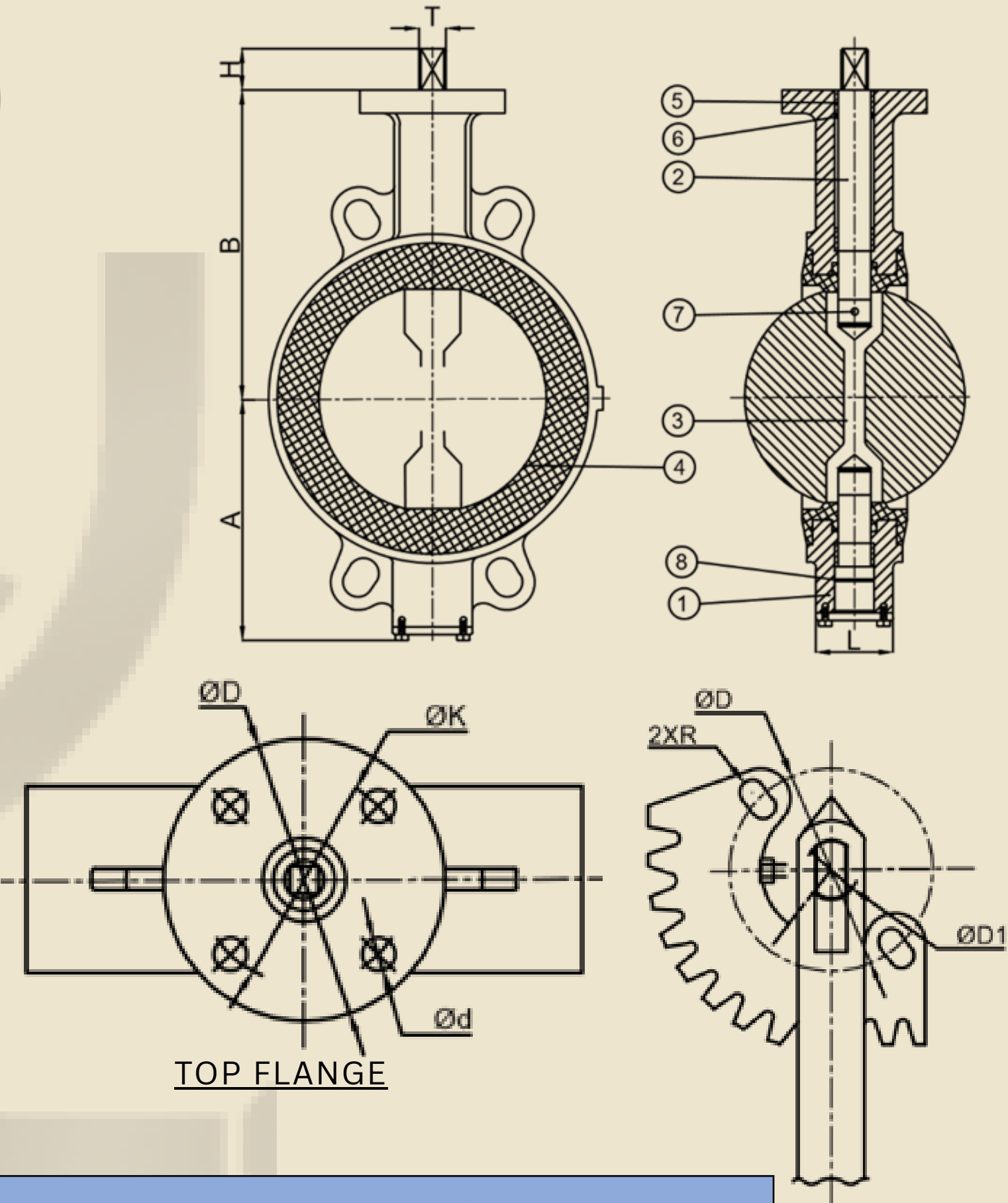
All dimensions in mm (unless specified) & Weight given in kg.

DIMENSIONAL DATA

DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
NPS (in)	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
A	64	72	88	105	119	130	163	200.5	235.5	256	315	330	348	438
B	102	113	123	152	152	165	206	253	277	310	340	375	425	505
L	43	46	46	52	56	56	60	68	78	78	102	114	127	154
ØD	65	65	65	90	90	90	125	125	125	150	175	175	175	210
ØK	50	50	50	70	70	70	102	102	102	125	140	140	140	165
nXØd	4XØ10	4XØ10	4XØ10	4XØ10	4XØ10	4XØ10	4XØ10	4XØ12	4XØ12	4XØ12	4XØ18	4XØ18	4XØ18	4XØ23
T	11	11	11	11	14	14	17	22	22	22	27	27	32	36
H	32	32	32	32	32	32	45	45	45	45	50.8	50.8	57.5	70
Wt.kg approx.	2.5	3.2	3.6	4.9	7	7.8	13.2	19	32.5	42.5	52	87	98	133

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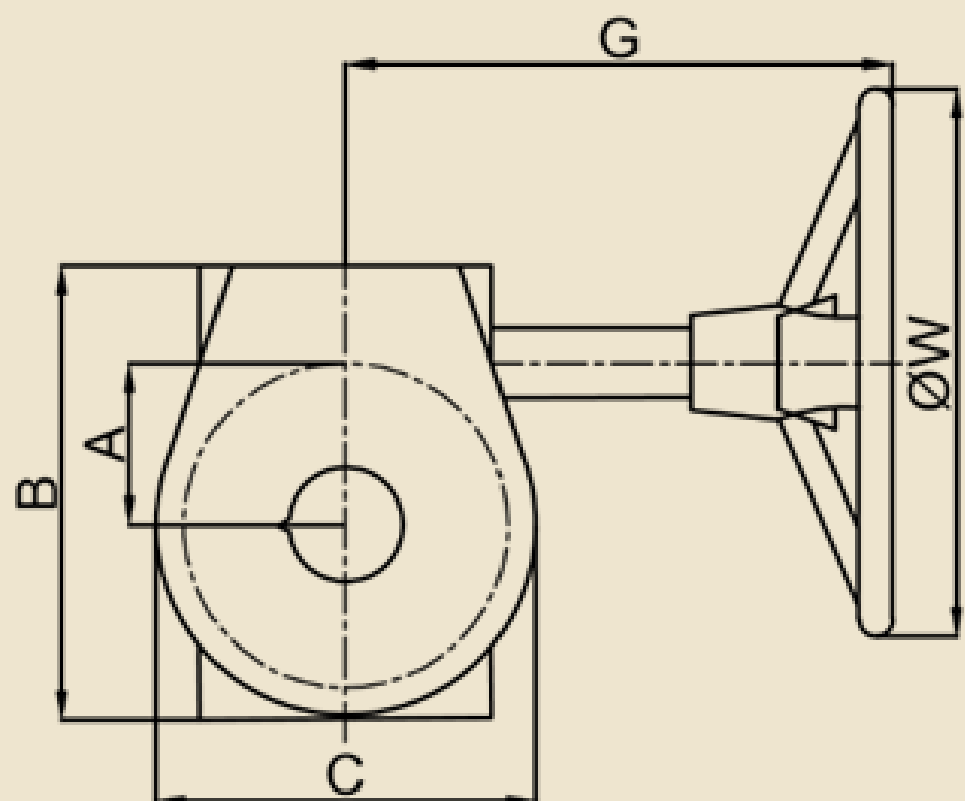
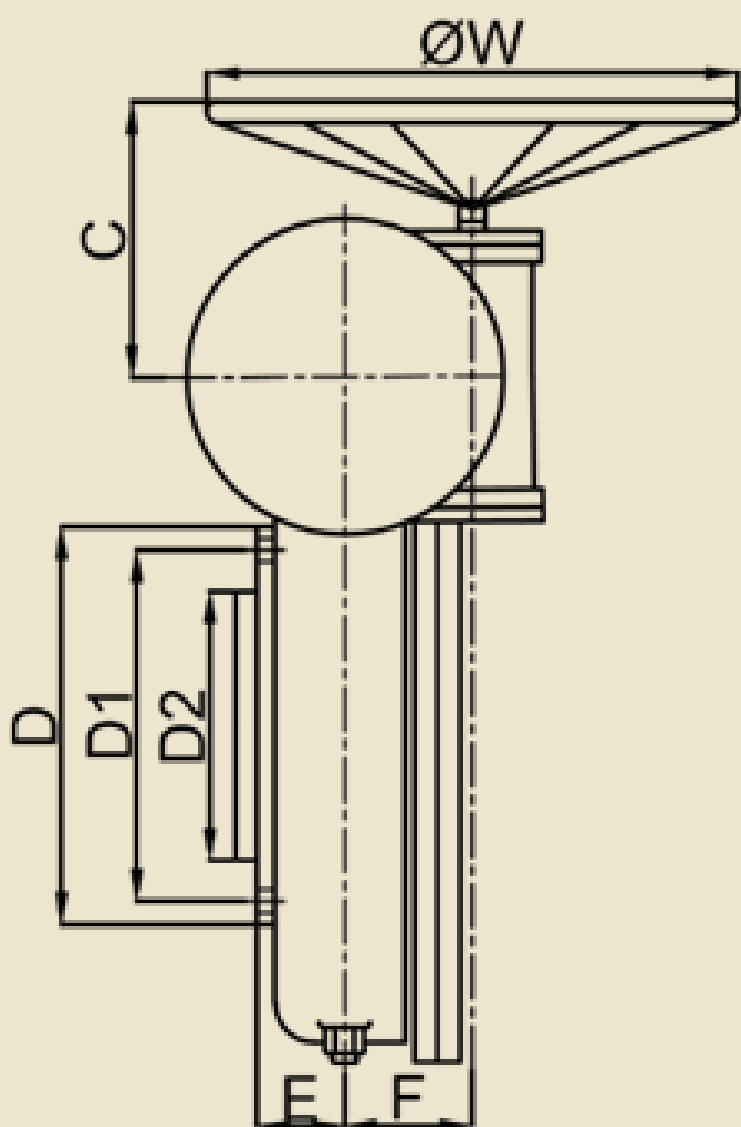
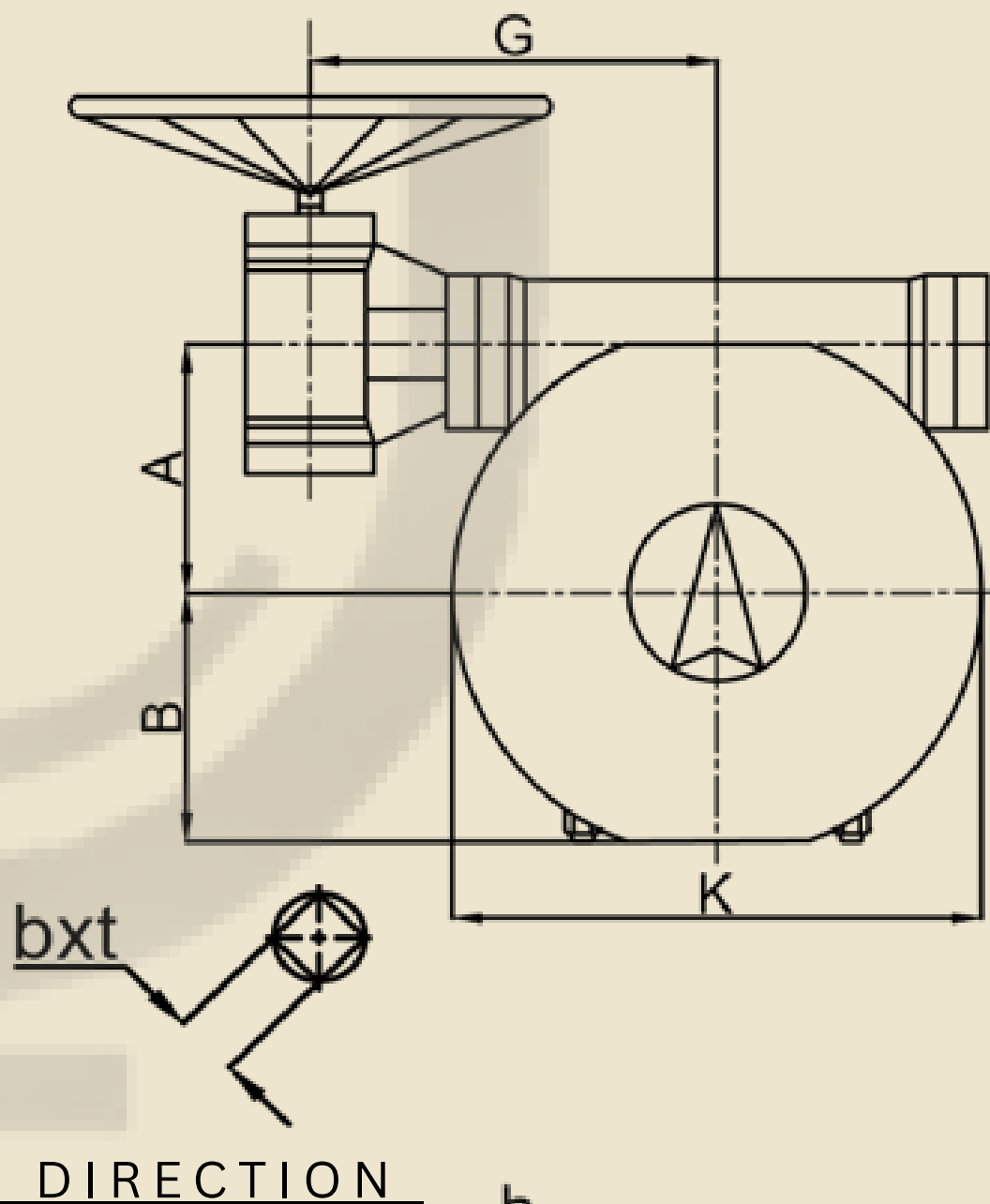
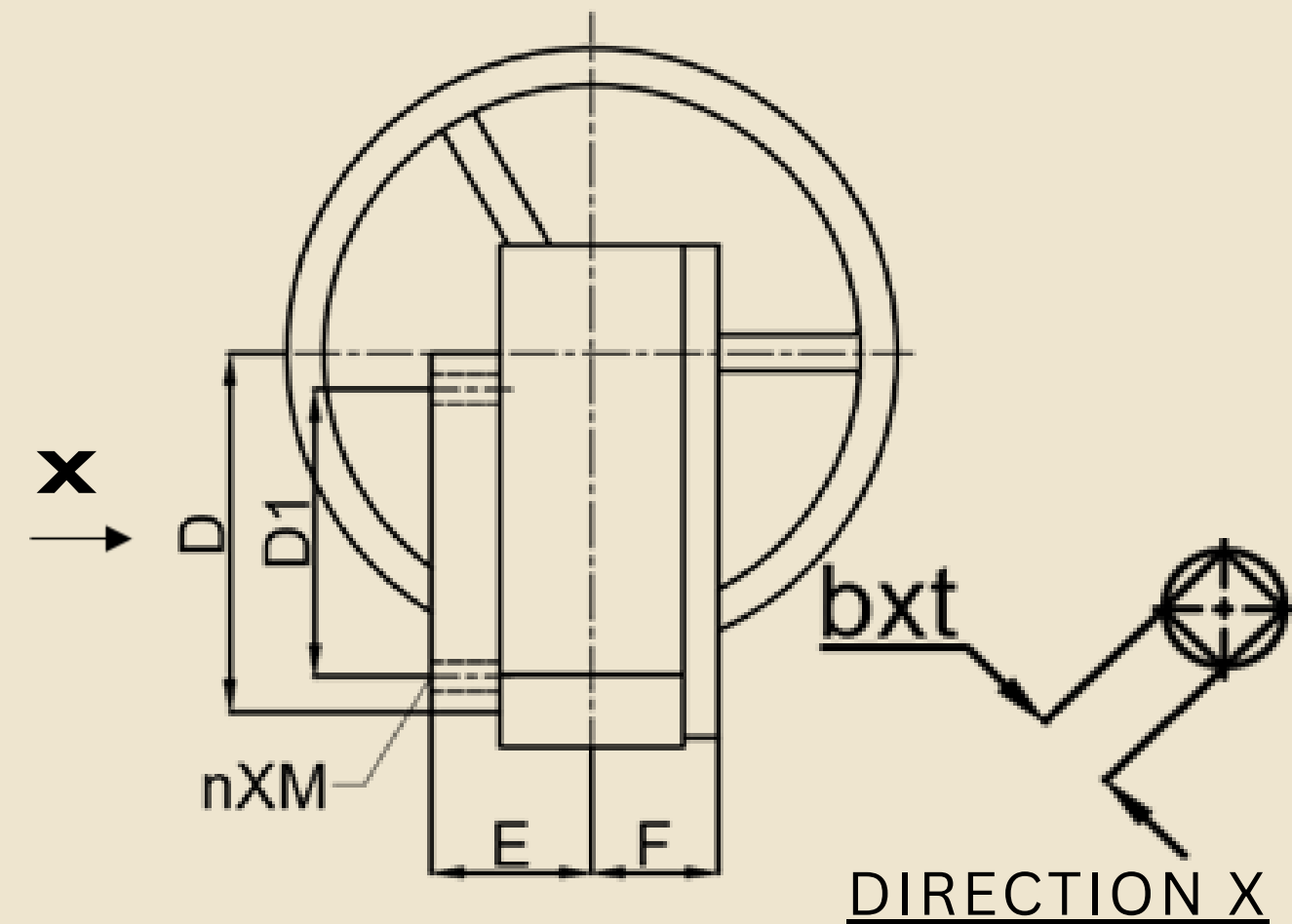
Valves can be supplied in other MOC's on request:-
SS(ASTM A 351 Gr.CF3MN / CF8C / CN7M), DSS (ASTM A 995 Gr. 4A / 5A / 3A / 6A)



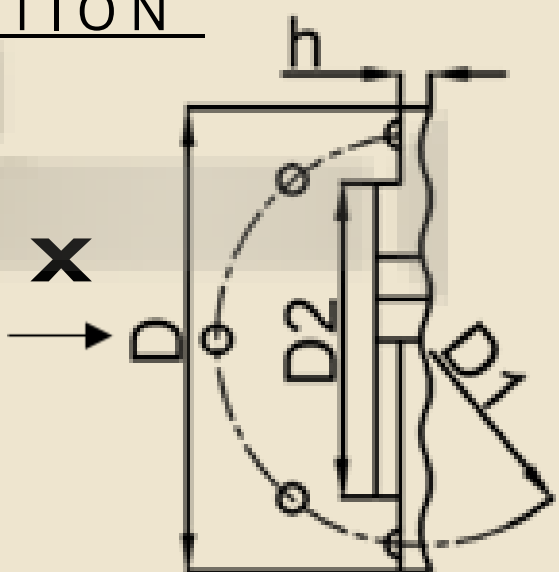
LEVER DIMENSIONS

DN	50 to 80	100	125 to 150	200
NPS (in)	2 to 3	4	5 to 6	8
W	234	290	290	400
W1	216	265	265	374
H	32	32	32	32
h1	22	25	25	29
h2	9	10	10	14
S	3	3	3	3
Ø D	50	70	70	70
Ø D1	12.6	15.77	18.92	22.1
2XR	2XR3.5	2XR5	2XR5	2XR5
Wt.kg approx.	0.4	0.59	0.59	0.93

WAFER & WAFER LUGGED BUTTERFLY VALVE PN6 / PN10 / PN16



MANUAL REDUCER WITH HANDWHEEL



MANUAL REDUCER WITH HANDWHEEL

All dimensions in mm (unless specified) & Weight given in kg.

DIMENSIONS							
DN	100	150	200	250	300	350	400
NPS (in)	4	6	8	10	12	14	16
A	45	45	63	63	78	78	120
B	128	128	179	179	200	200	287.5
C	105	105	152	152	164	164	287
D	90	90	125	125	125/140	125/140	175
D1	70	70	102	102	102	102	140
E	36	36	46	46	46	46	59
F	28	28	34	34	36	36	54
G	226	226	313	313	307	307	373
ØW	150	150	300	300	300	300	400
nXM	4XM8	4XM8	4XM10	4XM10	4XM10	4XM10	4XM16
bXt	11X11	14X14	17X17	17X17	22X22	22X22	27X27

DIMENSIONS			
DN	450	500	600
NPS (in)	18	20	24
A	94	94	125
B	103.5	103.5	131
C	160	160	176
D	175	175	210
D1	140	140	165
D2	130	130	130
E	53	53	62
F	57	57	66
G	181	181	199.5
K	214	214	276
h	4	4	4
ØW	300	300	400
nXM	4XM16	4XM16	4XM20
bXt	27X27	32X32	36X36

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WAFER & WAFER LUGGED BUTTERFLY VALVE PN6 / PN10 / PN16

ADDITIONAL TECHNICAL INFORMATION:

OPERATING TORQUE OF BUTTERFLY VALVES (Nm)															
DN		50	65	80	100	125	150	200	250	300	350	400	450	500	600
NPS (in)		2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
PN6	Wet	12.7	13.4	20.4	33.1	51.4	80.2	145	232	343	434	565	742	965	1494
	Dry	20.2	25.4	38.7	60.5	89.3	141	250	394	559	650	848	1113	1447	2241
PN10	Wet	13.9	15.4	21.7	37.1	57.9	93.9	173	286	429	550	755	1012	1350	2111
	Dry	21.1	29.2	41.1	67.8	101	165	297	486	699	825	1133	1518	2025	3166
PN16	Wet	15.1	17.2	23.1	39.8	61.9	102	192	323	490	625	846	1131	1431	2301
	Dry	24.2	32.7	43.7	72.8	108	174	330	549	799	969	1307	1787	2288	3711

OUTPUT TORQUE OF ACTUATOR (Nm)										
DN	100	150	200	250	300	350	400	450	500	600
NPS (in)	4	6	8	10	12	14	16	18	20	24
Output Torque	150	150	500	500	1200	1200	2500	2500	2500	4000
No. Winds	6	6	8	8	12.5	12.5	20	133	133	160

FACTOR Cv														
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
NPS (in)	2	2.5	3	4	5	6	8	10	12	14	16	18	20	24
Factor Cv	115	196	302	600	1022	1579	3136	5340	8250	11917	16388	21705	27908	43116

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