

butterfly valve DN40 to 500 series BUW6, BULG/C



design	wafer respectively lug type butterfly valve with two-piece shaft, floating disc, power transmission by gear tooth system, shaft is protected against blow out by circlip
connection	flange according to EN1092
form of flange	wafer type DN40...DN500: PN10/PN16/ANSI150 lug type DN40...DN150: PN10/PN16, DN200...DN500: PN10
length	according to EN558-1 line 20 (DIN3202-K1)
materials	body ductile iron epoxy coated, disc zinc plated steel (DN50...100), ductile iron zinc plated (DN125...500) respectively stainless steel AISI 316, shaft stainless steel AISI 430 (not wetted) hand lever aluminum gear box DN40...DN400: aluminum, DN450 and DN500: cast iron EN-GJL-250
liner	demountable, see table "liner materials"
stem sealing	through the body liner to avoid the contact to the body. in addition an o-ring below the top flange protect the shaft from outside dust and emission of the media.
Sealing at the flange	without additional sealings (body liner as direct seal)
type of fixing	installed into rigid pipework between two flanges according to EN1092 form 01, 11, 32, 34
mounting position	any
application	group 1 and 2 liquids and gases acc. to 97/23/EC and which do not affect the used materials.
flow direction	any
medium temperature	see table "liner material"
operating pressure	BUW6: 0-16bar BULG/C: DN40...DN150: 0-16bar, DN200...DN500: 0-10bar, installation without counter flange see table "pressure stability" also suitable for vacuum
actuation	DN50...DN150 hand lever aluminum, 10 positions, by rotating the mounting adapter 2 positions DN200...DN300 hand lever aluminum, 10 positions gear box aluminum respectively cast iron EN-GJL-250, continuously
special versions	body steel, stainless steel, aluminum or aluminium-bronze, disc aluminium-bronze, hastelloy or monel, ATEX, DVGW-certification

order code

		BU	W	6	-050	-D	S	C	S	-L	-A
butterfly valve flanged type	lug	L									
	wafer	W									
operating pressure / flange mounting	16bar...PN10/16/A150	6									
	10bar...PN10	C									
	16bar...PN10/16	G									
nominal diameter	40mm			040							
	50mm			050							
	65mm			065							
	80mm			080							
	100mm			100							
	125mm			125							
	150mm			150							
	200mm			200							
	250mm			250							
	300mm			300							
	350mm			350							
	400mm			400							
	450mm			450							
	500mm			500							
body	aluminum				A						
	aluminium-bronze				B						
	steel				C						
	ductile iron				D						
	stainless steel				S						
disc	aluminium-bronze					N					
	ductile iron zinc plated					P					
	stainless steel AISI 316					S					
	steel zinc plated					U					
liner	EPDM						E				
	hypalone						H				
	NBR						N				
	silicone						S				
	FKM						V				
	EPDM food safe						W				
	EPDM HT						X				
shaft	stainless steel AISI 430 (blank position)										
	stainless steel AISI 316						S				
actuation	bare shaft								B		
	gear box								G		
	hand lever aluminum 10 positions								L		
	hand lever aluminum adjustable								R		
special versions	ATEX									A	
	free of oil and grease									G	
	silicone-free									S	

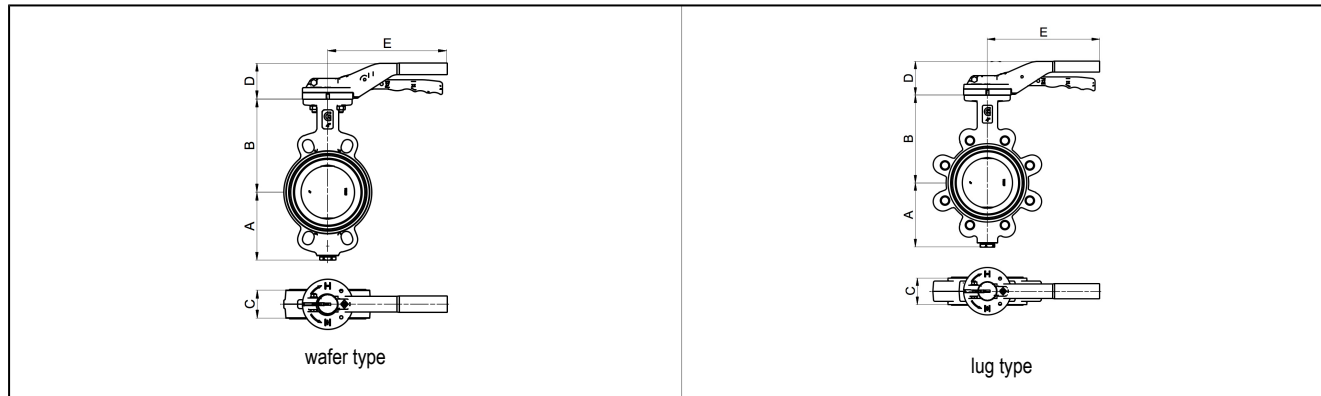
liner material

material	medium temperature	examples of use
EPDM	-35...+130°C	hot water, cold water, neutral gases and liquids
EPDM food safe	-30...+130°C	foods
EPDM HT	-30...+135°C	steam, hot water, cold water, neutral gases and liquids
FKM	-20...+200°C	petrol, diesel, oils
NBR	-25...+100°C	cold water, air, neutral gases and liquids
neoprene, silicone and hypalone are available on request		

pressure stability

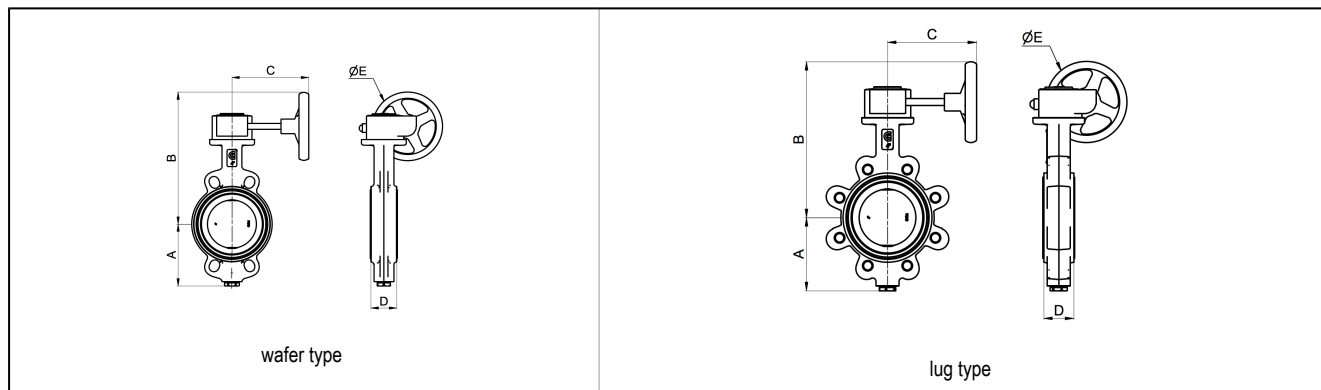
type	jammed between two flanges	end armature without counter flange
wafer type	16bar	-
lug type	DN50...150: 16bar, >DN150: 10bar	6bar

dimensions with hand lever



nominal diameter DN [mm]	A	B	C	D	E	stem square diagonal [mm]	flange ISO 5211	weight [app. kg]	
								wafer	lug
40	75	130	33	67	220	11	F07	2,8	3,6
50	81	138	43	67	220	11	F07	3,4	4,3
65	98	144	46	67	220	11	F07	4,3	5,9
80	110	158	46	67	220	11	F07	4,6	6,7
100	128	173	52	67	220	11	F07	6,6	8,7
125	140	186	56	67	275	14	F07	7,9	10,4
150	155	202	56	67	275	14	F07	9,8	12,2
200	190	240	60	76	340	17	F10	15	28
250	220	270	68	76	340	22	F10	23	35
300	247	300	78	76	340	22	F10	33	50

dimensions with gear box



nominal diameter DN [mm]	A	B	C	D	E	stem type	stem size [mm]	flange ISO 5211	weight [app. kg]	
									wafer	lug
40	75	227	160	33	140	square diagonal	11	F07	3,8	4,6
50	81	235	160	43	140	square diagonal	11	F07	4,4	5,3
65	98	241	160	46	140	square diagonal	11	F07	5,3	6,9
80	110	255	160	46	140	square diagonal	11	F07	5,6	7,7
100	128	270	160	52	140	square diagonal	11	F07	7,6	9,7
125	140	283	160	56	140	square diagonal	14	F07	8,8	11,3
150	155	299	160	56	140	square diagonal	14	F07	10,7	13,1
200	190	398	215	60	250	square diagonal	17	F10	17	30
250	220	428	215	68	250	square diagonal	22	F10	25	37
300	247	458	215	78	250	square diagonal	22	F10	35	52
350	280	581	325	78	400	key	35	F12	52	72
400	305	606	325	102	400	key	40	F12	86	100
450	343	761	395	114	600	key	45	F14	135	195
500	366	783	395	127	600	key	45	F16	165	205

kv value [m³/h]

nominal diameter DN [mm]	Opening angle of the butterfly valve								
	10°	20°	30°	40°	50°	60°	70°	80°	90°
40/50	-	0,9	6,1	15	29	53	92	115	116
65	-	2,5	11	27	51	90	161	240	257
80	-	5,2	21	49	91	156	283	457	508
100	-	9,5	39	88	159	269	487	815	925
125	-	15	69	148	262	434	768	1303	1492
150	-	23	112	228	394	641	1097	1861	2168
200	-	110	211	405	679	1085	1788	3043	3838
250	21	156	310	591	988	1591	2715	4768	5010
300	49	280	381	742	1252	2059	3744	6831	9233
350	123	315	661	1184	2008	3225	5195	9301	10792
400	161	412	863	1547	2620	4202	6775	12142	14082
450	199	511	1069	1916	3248	5218	8412	15048	17840
500	246	630	1320	2366	4010	6442	10377	18578	22024

illustrations are non-binding

all designs, configurations, measurements and materials are subject to change without prior notice