

butterfly valve DN40...DN300 series BUW1



design	wafer respectively lug type butterfly valve with two-piece shaft, shaft is protected against blow out by circlip
connection	flange according to EN1092
form of flange	wafer type and lug type DN40...DN300: PN6
length	according to EN558-1R20
materials	body ductile iron EN-GJS-400-15 epoxy coated 40...60µm, disc zinc plated steel (DN50...100), ductile iron EN-GJS-400-15 zinc plated (DN125...300) respectively stainless steel AISI 316, shaft stainless steel AISI 430 (not wetted) hand lever aluminum gear box aluminum
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	when used for solids shaft lying, for all other applications any
application	solids, group 1 and 2 liquids and gases acc. to PED 2014/68/EU and which do not affect the used materials.
flow direction	any
medium temperature	-10...+200°C additionally dependent on the liner material - see table "liner material"
operating pressure	0...6bar, lug type installation without counter flange see table "pressure stability"
actuation	DN50...DN150 hand lever aluminum, 10 positions, by rotating the mounting adapter 2 positions DN200...DN300 hand lever aluminum, 10 positions
special versions	gear box, diameter until DN800, ATEX - II 2GD c TX

order code

		BU	W	1	-050	-D	S	C	S	-L	-A
butterfly valve flanged type	lug			L							
	wafer			W							
operating pressure/flange mounting	6bar...PN6			1							
nominal diameter	40mm				040						
	50mm				050						
	65mm				065						
	80mm				080						
	100mm				100						
	125mm				125						
	150mm				150						
	200mm				200						
	250mm				250						
	300mm				300						
body	EN-GJS-400-15					D					
disc	stainless steel AISI 316						S				
	EN-GJS-400-15 zinc plated						P				
	steel zinc plated						U				
liner	NBR carboxylated							C			
	EPDM							E			
	hypalone							H			
	NBR							N			
	silicone							S			
	FKM							V			
	EPDM-white							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

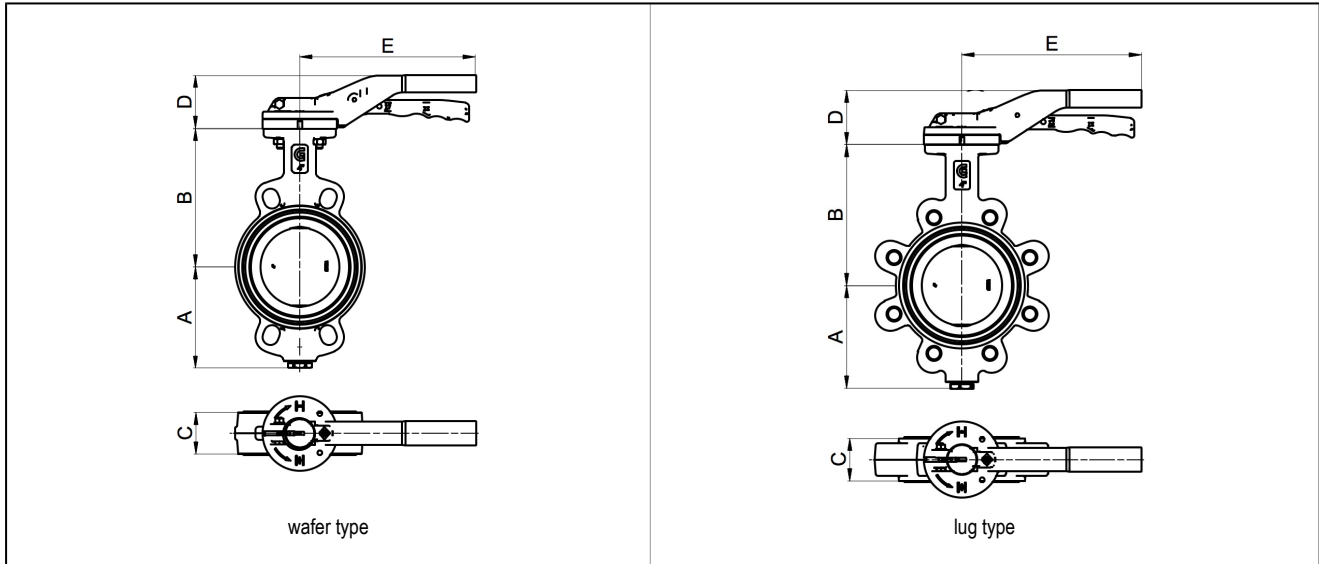
liner material

material	medium temperature	examples of use
EPDM	-35 ... +130°C	hot water, cold water, neutral gases and liquids
EPDM-white	-30 ... +130°C	granulate material
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
NBR carboxylated	-25 ... +100°C	abrasive media as sand, cement
neoprene, silicone, hypalone and natural rubber are available on request		

pressure stability

type	jammed between two flanges	end armature without counter flange
wafer type	6bar	-
lug type	6bar	4bar

dimensions



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

kv value [m³/h]

nominal diameter DN [mm]	Opening angle of the butterfly valve								
	10°	20°	30°	40°	50°	60°	70°	80°	90°
40	-	0,9	6,1	15	29	53	92	115	116
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

illustrations are non-binding
all designs, configurations, measurements and materials are subject to change without prior notice