

Butterfly valve

Series BUW6, BUL1, BULA, BULC, BULG, BULY



Design type	Wafer / lug butterfly valve with two-piece shaft, Shaft secured against blow-out by circlip
Actuation	DN40...DN150 Hand lever Aluminium, 10 Detents, by turning the mounting adapter 2 Detents, lockable version DN200...DN300 Hand lever Aluminium, 10 Detents, lockable version Manual gearbox Grey cast iron EN-GJL-250, infinitely variable
Connection	Flanges according to EN1092 or rather ANSI150
Flange type	Sandwich mounting version: BUW6 DN40...DN500: PN10/PN16/ANSI150 Flanged version: BUL1 DN40...DN500: PN6, BULG DN40...DN150: PN10/PN16, BULC DN200...DN500: PN10, BULA DN200...DN500: PN16, BULY DN40...DN500: ANSI150
Overall length	according to EN558-1R20
Materials	Housing Ductile cast iron EN-GJS-400-15 epoxy-coated 40...60µm, Disc Galvanized steel (DN50...100), Ductile cast iron EN-GJS-400-15 zinc-plated (DN125...500) or rather Stainless steel 1.4408, Shaft Stainless steel 1.4016 (non-media-contacting) Hand lever Aluminium Manual gearbox Grey cast iron EN-GJL-250
Sleeve	interchangeable, see table "Seal materials"
Spindle seal	Via the housing lining, so that contact with the housing is avoided. Additionally, an O-ring below the head flange protects the shaft against dust ingress from outside and medium leakage from inside.
Sealing at the flange	without additional seals (Housing lining seals directly)
Application range	Fluids and gases of group 1 and 2 according to PED 2014/68/EU that do not attack the materials used.
Medium temperature	-10...+200°C additionally depending on the seal material - see table "Seal materials"
Operating pressure	BUW6: 0...16bar BULG - DN40...DN150: 0...16bar BULC - DN200...DN500: 0...10bar BULA - DN200...DN500: 0...16bar BULY - DN40...DN500: 0...16bar Installation without mating flange see table "Pressure resistance" Vacuum: -0,97bar
Flow direction	any
Mounting type	Installation in rigid piping system between two flanges according to EN1092 form 01, 11, 32, 34
Mounting position	any
Approvals	TA air, SIL 3
Special versions	Disc Hastelloy or Monel, ATEX II 2 G/D Ex h X, DVGW approval, electrical end position feedback



Type code

		BU	W	6	-050	-D	S	C	S	-L	-A
Butterfly valve											
Flange version	Flange connection	L									
	Sandwich plate	W									
Operating pressure / Flange mounting	6bar...PN6			1							
	16bar...PN10/16/ANSI150			6							
	16bar...PN16			A							
	10bar...PN10			C							
	16bar...PN10/16			G							
	16bar...ANSI150			Y							
Nominal size	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	Aluminium					A					
	Aluminium bronze					B					
	Steel					C					
	EN-GJS-400-15					D					
	Stainless steel					S					
Disc	Aluminium bronze					N					
	EN-GJS-400-15 zinc-plated					P					
	Stainless steel 1.4408					S					
	Steel zinc-plated					U					
Sleeve	EPDM					E					
	Hypalon					H					
	NBR					N					
	Silicone					S					
	FKM					V					
	EPDM-white					W					
	EPDM HT					X					
Shaft	Stainless steel 1.4016 (Leave blank)										
	Stainless steel 1.4401						S				
Actuation	free shaft								B		
	Gearbox								G		
	Hand lever Aluminium 10 Detents								L		
	Hand lever Aluminium adjustable								R		
Special versions	ATEX									A	
	oil- and grease-free									G	
	silicone-free									S	

Seal materials

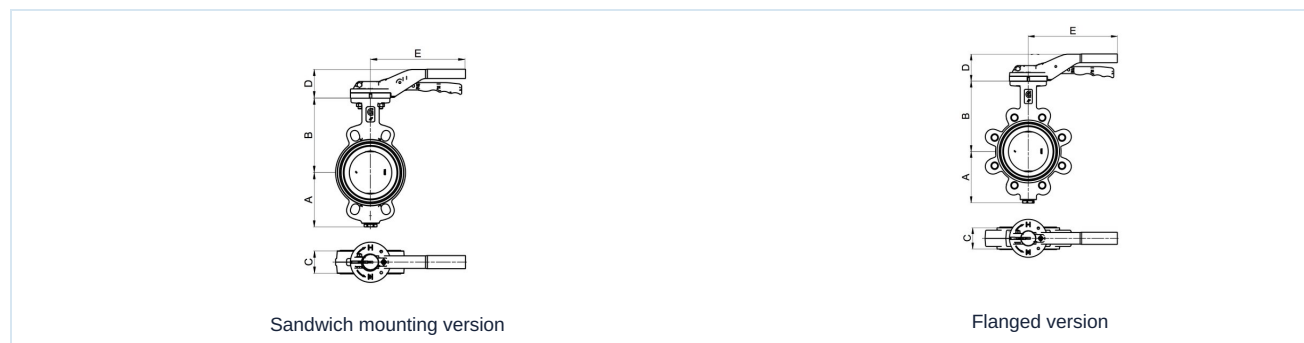
Material	Medium temperature	Application examples
EPDM	-10 (-35)*...+130°C	Hot water, Cold water, neutral gases and liquids
EPDM-white	-10 (-30)*...+130°C	Granules
EPDM HT	-10 (-40)*...+150°C	Steam, Hot water, Cold water, neutral gases and liquids
FKM	-10 (-20)*...+200°C	Gasoline, Diesel, Oils
NBR	-10 (-25)*...+100°C	Cold water, Air, neutral gases and liquids
NBR carboxyl-containing	-10 (-25)*...+100°C	abrasive media such as sand, cement
Neoprene, Silicone and Hypalon available on request		
*lower media temperatures on request		



Pressure resistance

Type	Series	clamped between two flanges	End fitting without Counter flange
Sandwich mounting version	BUW6	16bar	-
Flanged version	BUL1	6bar	6bar
Flanged version	BULA	16bar	6bar
Flanged version	BULC	16bar	6bar
Flanged version	BULG	10bar	6bar
Flanged version	BULY	16bar	6bar

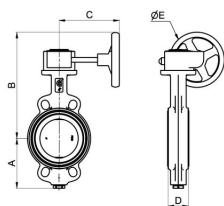
Dimensions with Hand lever



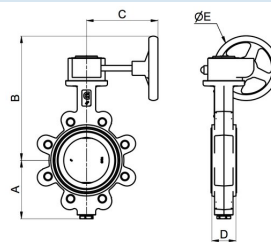
Nominal size DN [mm]	A	B	C	D	E	Square spindle diagonal [mm]	Flange ISO 5211	Weight [approx. kg]	
								Sandwich plate	Flange connection
40	75	130	33	67	220	11	F07	2,8	3,6
50	81	138	43	67	220	11	F07	3,4	4,3
65	98	144	46	67	220	11	F07	4,3	5,9
80	110	158	46	67	220	11	F07	4,6	6,7
100	128	173	52	67	220	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 Handwheel gearbox



Sandwich mounting version



Flanged version

Nominal size DN [mm]	A	B	C	D	E	Spindle type	Spindle dimension [mm]	Flange ISO 5211	Weight [approx. kg]	
									Sandwich plate	Flange connection
40	75	257	158	33	200	Square diagonal	11	F07	4,8	5,6
50	81	265	158	43	200	Square diagonal	11	F07	5,4	6,3
65	98	271	158	46	200	Square diagonal	11	F07	6,9	8,5
80	110	285	158	46	200	Square diagonal	11	F07	7,2	9,3
100	128	300	158	52	200	Square diagonal	11	F07	9,2	11,3
125	140	313	158	56	200	Square diagonal	14	F07	10,5	13
150	155	329	158	56	200	Square diagonal	14	F07	12,3	14,6
200	190	369	217	60	200	Square diagonal	17	F10	18,6	31,6
250	220	461	282	68	300	Square diagonal	22	F10	26,7	38,7
300	247	541	282	78	400	Square diagonal	22	F10	34,4	51,4
350	280	572	282	78	400	Parallel key	35/10	F12	52,9	73
400	305	597	282	102	400	Parallel key	40/12	F12	77,6	93
450	343	642	282	114	400	Parallel key	45/12	F14	124	184
500	366	664	282	127	400	Parallel key	45/12	F16	154	194

Kv value [m³/h]

Nominal size DN [mm]	Opening angle of the disc								
	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 non-binding

Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - manually operated / Butterfly valves / Butterfly valve with hand lever Series BUW6-DSE-L

Version 6

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MADE IN EUROPE

+43 512 52076

austria@stasto.eu

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