

Butterfly valves with pneumatic rotary actuator Series BUW2, BULI/B



Design type	Wafer or lug butterfly valve with two-piece shaft, floating disc, torque transmission via spline, shaft secured against blow-out by circlip
Function	double-acting or single-acting Version
Connection	Flanges according to EN1092
Flange type	Sandwich mounting version: PN10/PN16/ANSI150 Flanged version DN40...DN150: PN10/PN16, DN200...DN450: PN10
Overall length	according to EN558-1 series 20 (DIN3202-K1)
Materials	Actuator: Hard anodized aluminium, Pinion, nickel-plated steel, Piston guide POM, Seals NBR Butterfly valve Housing GJS400-15 epoxy-coated, Disc Galvanized steel (DN50...100), GJS400-15 zinc-plated (DN125...450) or rather Stainless steel 1.4408, Shaft Stainless steel 1.4016 (not in contact with the medium)
Seal ring	NBR carboxyl-containing interchangeable, see table "Seal materials" for further information
Application range	Solids, Fluids and gases of group 1 and 2 in accordance with 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"
Ambient temperature	-20...+85°C
Operating pressure	0...6bar
Control medium	filtered and lubricated or non-lubricated compressed air
Control pressure	5,5...8 bar, Adaptation to lower control pressures on request
Mounting type	Installation in rigid piping system between two flanges to EN1092, form 01, 11, 32, 34
Mounting position	for use with solids, shaft horizontal, for all other applications any
Special version	Stainless steel pinion, Ambient temperatures from -40...+85°C or rather -20...150°C, Nominal sizes up to DN500, ATEX II 2 GD Ex h X - ATEX II 2 G/D c T6
Accessories	assembled manual, pneumatic or electric control valve electrical end position feedback, Positioner in I/P or P/P version Adjustment of the switching speed, intermediate disengageable gearbox for manual operation



Type code

Butterfly valve		BU W 2 -050 -D S C S -D 3 1 - A
Flange version	Flange connection	L
	Sandwich plate	W
Operating pressure / Flange mounting	6bar...PN10/16/A150	2
	6bar...PN10	B
	6bar...PN10/16	I
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
Body	GJS400-15	D
Disc	Stainless steel 1.4408	S
	GJS400-15 zinc-plated	P
	Steel zinc-plated	U
Seal ring	NBR carboxyl-containing	C
	EPDM	E
	Hypalon	H
	NBR	N
	Polyurethane	P1
	Silicone	S
	FKM	V
	EPDM-white	W
	EPDM HT	X
Shaft	Stainless steel 1.4016 (Leave blank)	
	Stainless steel 1.4401	S
Actuation	double-acting Actuator	D
	single-acting Actuator	S
Control pressure / Medium pressure	5,5bar/6bar	3
Medium	Water	1
	Solids, Gases or other liquids	2
	degreasing media	3
Special versions	ATEX	A
	oil- and grease-free	G
	silicone-free	S

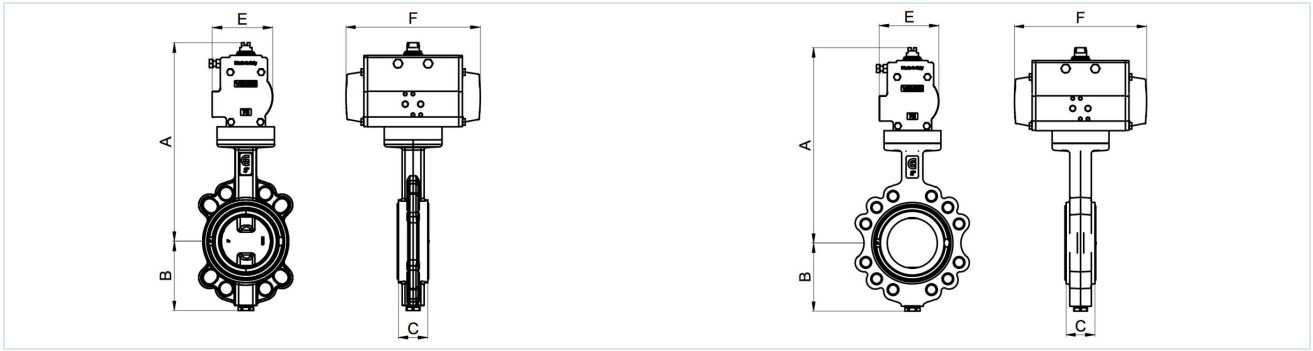
Seal materials

Material	Medium temperature*	Application examples
EPDM	-10 (-35)*...+130°C	Hot water, Cold water, neutral gases and liquids
EPDM-white	-10 (-30)*...+130°C	Food-grade
EPDM HT	-10 (-30)*...+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
Polyurethane	-10 (-25)*...+90°C	abrasive media such as sand, cement

Neoprene, Silicone, Hypalon and Natural rubber available on request
*lower media temperatures on request



Dimensions



Butterfly valves with double-acting actuator, Control pressure 5,5...8bar, Seal ring NBR carboxyl-containing

Nominal size DN[mm]	max. Operating pressure [bar]	A	B	C	E	F	Actuator type	Kv value [m³/h]	Type Sandwich plate	Weight [approx. kg]	Type Flange connection	Weight [approx. kg]
40	6	259	75	33	81	164	PAD063	116	BUW2-040-DSC-D32	4	BULI-040-DSC-D32	4,8
50	6	267	81	43	81	164	PAD063	116	BUW2-050-DSC-D32	4,6	BULI-050-DSC-D32	5,5
65	6	273	98	46	81	164	PAD063	257	BUW2-065-DSC-D32	5,5	BULI-065-DSC-D32	7,1
80	6	287	110	46	81	164	PAD063	508	BUW2-080-DSC-D32	5,8	BULI-080-DSC-D32	7,9
100	6	302	128	52	81	164	PAD063	925	BUW2-100-DSC-D32	7,8	BULI-100-DSC-D32	9,9
125	6	333	140	56	95	210	PAD075	1492	BUW2-125-DSC-D32	10,1	BULI-125-DSC-D32	12,6
150	6	363	155	56	106	241	PAD085	2168	BUW2-150-DSC-D32	13,1	BULI-150-DSC-D32	15,5
200	6	405	190	60	106	241	PAD085	3838	BUW2-200-DSC-D32	19	BULB-200-DSC-D32	32
250	6	477	220	68	137	333	PAD115	5010	BUW2-250-DSC-D32	31,4	BULB-250-DSC-D32	43,4
300	6	519	247	78	148	372	PAD125	9233	BUW2-300-DSC-D32	43,3	BULB-300-DSC-D32	60,3
350	6	595	280	78	186	500	PAD180	10792	BUW2-350-DSC-D32	76	BULB-350-DSC-D32	96
400	6	738	305	102	213	493	PAD180	14082	BUW2-400-DSC-D32	110	BULB-400-DSC-D32	124
450	6	783	343	114	213	493	PAD180	17840	BUW2-450-DSC-D32	140	BULB-450-DSC-D32	200



Butterfly valves with single-acting actuator, Control pressure 5,5...8bar, Seal ring NBR carboxyl-containing

Nominal size DN[mm]	max. Operating pressure [bar]	A	B	C	E	F	Actuator type	Kv value [m³/h]	Type Sandwich plate	Weight [approx. kg]	Type Flange connection	Weight [approx. kg]
40	6	277	75	33	95	210	PAS0755	116	BUW2-040-DSC-S32	5,7	BULI-040-DSC-S32	6,5
50	6	299	81	43	106	241	PAS0855	116	BUW2-050-DSC-S32	7,7	BULI-050-DSC-S32	8,6
65	6	318	98	46	123	275	PAS1005	257	BUW2-065-DSC-S32	10,8	BULI-065-DSC-S32	12,4
80	6	305	110	46	95	210	PAS0755	508	BUW2-080-DSC-S32	7,5	BULI-080-DSC-S32	9,6
100	6	334	128	52	106	241	PAS0855	925	BUW2-100-DSC-S32	10,9	BULI-100-DSC-S32	13
125	6	395	140	56	137	333	PAS1155	1492	BUW2-125-DSC-S32	18,8	BULI-125-DSC-S32	21,3
150	6	423	155	56	148	372	PAS1255	2168	BUW2-150-DSC-S32	23,3	BULI-150-DSC-S32	25,7
200	6	481	190	60	164	435	PAS1405	3838	BUW2-200-DSC-S32	36,4	BULB-200-DSC-S32	48,9
250	6	535	220	68	186	500	PAS1605	5010	BUW2-250-DSC-S32	51,6	BULB-250-DSC-S32	63,6
300	6	658	247	78	217	579	PAS2005	9233	BUW2-300-DSC-S32	89	BULB-300-DSC-S32	104,1
350	6	785	280	78	249	690	PAS2305	10792	BUW2-350-DSC-S32	116	BULB-350-DSC-S32	136
400	6	810	305	102	249	690	PAS2305	14082	BUW2-400-DSC-S32	150	BULB-400-DSC-S32	164
450	6	929	343	114	249	690	PAS2707	17840	BUW2-450-DSC-S32	217	BULB-450-DSC-S32	277

Butterfly valves with double-acting actuator, Control pressure 5,5...8bar, Seal ring EPDM, Medium Water

Nominal size DN[mm]	max. Operating pressure [bar]	A	B	C	E	F	Actuator type	Kv value [m³/h]	Type Sandwich plate	Weight [approx. kg]	Type Flange connection	Weight [approx. kg]
40	6	259	75	33	81	164	PAD063	116	BUW2-040-DSE-D31	4	BULI-040-DSE-D31	4,8
50	6	267	81	43	81	164	PAD063	116	BUW2-050-DSE-D31	4,6	BULI-050-DSE-D31	5,5
65	6	273	98	46	81	164	PAD063	257	BUW2-065-DSE-D31	5,5	BULI-065-DSE-D31	7,1
80	6	287	110	46	81	164	PAD063	508	BUW2-080-DSE-D31	5,8	BULI-080-DSE-D31	7,9
100	6	302	128	52	81	164	PAD063	925	BUW2-100-DSE-D31	7,8	BULI-100-DSE-D31	9,9
125	6	333	140	56	95	210	PAD075	1492	BUW2-125-DSE-D31	10,1	BULI-125-DSE-D31	12,6
150	6	349	155	56	95	210	PAD075	2168	BUW2-150-DSE-D31	13,1	BULI-150-DSE-D31	15,5
200	6	405	190	60	106	241	PAD085	3838	BUW2-200-DSE-D31	19	BULB-200-DSE-D31	32
250	6	477	220	68	137	333	PAD115	5010	BUW2-250-DSE-D31	31,4	BULB-250-DSE-D31	43,4
300	6	508	247	78	137	333	PAD115	9233	BUW2-300-DSE-D31	41,4	BULB-300-DSE-D31	58,4
350	6	571	280	78	164	435	PAD140	10792	BUW2-350-DSE-D31	63,3	BULB-350-DSE-D31	83,3
400	6	621	305	102	186	500	PAD160	14082	BUW2-400-DSE-D31	103	BULB-400-DSE-D31	116



Butterfly valves with single-acting actuator, Control pressure 5,5...8bar, Seal ring EPDM, Medium Water

Nominal size DN[mm]	max. Operating pressure [bar]	A	B	C	E	F	Actuator type	Kv value [m³/h]	Type Sandwich plate	Weight [approx. kg]	Type Flange connection	Weight [approx. kg]
40	6	277	75	33	95	210	PAS0755	116	BUW2-040-DSE-S31	5,7	BULI-040-DSE-S31	6,5
50	6	285	81	43	95	210	PAS0755	116	BUW2-050-DSE-S31	6,3	BULI-050-DSE-S31	7,2
65	6	305	98	46	106	241	PAS0855	257	BUW2-065-DSE-S31	8,6	BULI-065-DSE-S31	10,2
80	6	287	110	46	81	164	PAS0635	508	BUW2-080-DSE-S31	6,1	BULI-080-DSE-S31	8,2
100	6	320	128	52	95	210	PAS0755	925	BUW2-100-DSE-S31	9,5	BULI-100-DSE-S31	11,6
125	6	360	140	56	123	275	PAS1005	1492	BUW2-125-DSE-S31	14,3	BULI-125-DSE-S31	16,8
150	6	411	155	56	123	333	PAS1155	2168	BUW2-150-DSE-S31	20,7	BULI-150-DSE-S31	23,1
200	6	449	190	60	137	333	PAS1155	3838	BUW2-200-DSE-S31	25,6	BULB-200-DSE-S31	38,6
250	6	535	220	68	186	500	PAS1605	5010	BUW2-250-DSE-S31	51,6	BULB-250-DSE-S31	63,6
300	6	565	247	78	186	500	PAS1605	9233	BUW2-300-DSE-S31	62,1	BULB-300-DSE-S31	81,4
350	6	688	280	78	217	579	PAS2005	10792	BUW2-350-DSE-S31	97	BULB-350-DSE-S31	117
400	6	810	305	102	249	690	PAS2305	14082	BUW2-400-DSE-S31	134	BULB-400-DSE-S31	148

Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - automatically operated / Butterfly valves - pneumatically operated / Butterfly valve with pneumatic actuator Series BUW2-DSC-D3

