

Butterfly valves with electric actuator DN40 up to DN200

Series BUW6



Design type	Wafer butterfly valve with two-piece shaft, floating disc, torque transmission via spline, shaft secured against blow-out by circlip, Electric geared motor with additional manual override, Actuator heater and Torque monitoring
Connection	Flanges according to EN1092
Flange type	PN10/PN16/ANSI150
Overall length	according to EN558-1 series 20 (DIN3202-K1)
Materials	Actuator: Polymer housing PA6 or rather PA66 Butterfly valve Housing EN-GJS400-15 epoxy-coated, Disc Galvanized steel (DN50 up to 100), EN-GJS400-15 zinc-plated (DN125 up to 200) or rather Stainless steel 1.4408, Shaft Stainless steel 1.4016 (non-media-contacting)
Seal ring	EPDM interchangeable, additional seals see table "Cup 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.
Mounting type	Installation in rigid piping system between two flanges according to EN1092, form 01, 11, 32, 34
Mounting position	any, except hanging downward
Application range	lubricating or non-degreasing gaseous and liquid media that do not attack the materials used, other media on request
Medium temperature	see table "Seal materials"
Ambient temperature	-20°C...+55°C
Operating pressure	0...10bar, also suitable for vacuum

Electrical data:

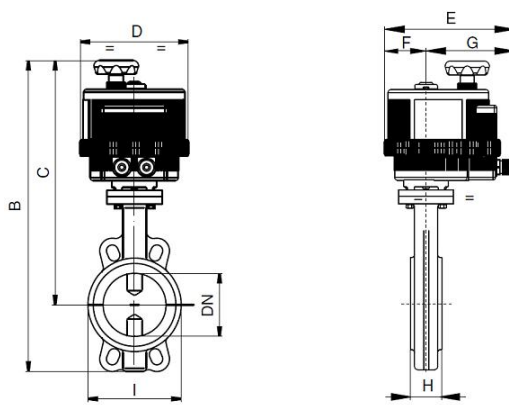
Voltage type	AC and DC voltage
Standard voltage	see table "Electrical data"
Permissible voltage fluctuation	± 10%
Electrical Connection	above Cable entry gland PG11
End position shut-off	above built-in Limit switch
Duty cycle	75% ED (S3), however max. 100 switching cycles per day
Degree of protection	IP67 according to EN 60529 with properly installed cable entry (protection against dust ingress and immersion in water)
Special version	Battery pack for safety position, Positioner, other Seal materials according to table
Ordering note	When ordering, please also specify the operating medium, operating pressure and operating temperature. When ordering, please specify voltage and type of current.



Seal materials

Material	Medium temperature	Application examples
EPDM	-30...+130°C	Hot water, Cold water, neutral gases and liquids
EPDM-lebensmittelecht	-30...+130°C	Hot water, Cold water, neutral gases and liquids, Food-grade
EPDM HT	-30...+135°C	Steam, Hot water, Cold water, neutral gases and liquids
FKM	-20...+200°C	Gasoline, Diesel, Oils
NBR (Perbunan)	-20...+100°C	Cold water, Air, neutral gases and liquids
Neoprene, Silicone, Hypalon and Natural rubber available on request.		

Dimensions



Nominal size DN[mm]	B	C	D	E	F	G	H	Weight [approx. kg]	Actuator type	max. operating pressure [bar]	Type Disc zinc-plated Seal ring EPDM	Type Disc stainless steel 1.4408 Seal ring EPDM
40	440	365	185	190	68	147	33	5,6	VB060	10	-	BUW6-040-DSE-0.2
50	454	373	185	190	68	147	43	6,2	VB060	10	BUW6-050-DUE-0.2	BUW6-050-DSE-0.2
65	477	379	185	190	68	147	46	7,1	VB060	10	BUW6-065-DUE-0.2	BUW6-065-DSE-0.2
80	503	393	185	190	68	147	46	7,4	VB060	10	BUW6-080-DUE-0.2	BUW6-080-DSE-0.2
100	554	426	211	237	84	153	52	11	VB110	10	BUW6-100-DUE-0.2	BUW6-100-DSE-0.2
125	579	439	211	237	84	153	56	12,2	VB110	10	BUW6-125-DUE-0.2	BUW6-125-DSE-0.2
150	610	455	211	237	84	153	56	14,1	VB190	10	BUW6-150-DUE-0.2	BUW6-150-DSE-0.2
200	684	494	222	247	77	170	60	20,1	VB350	10	BUW6-200-DUE-0.2	BUW6-200-DSE-0.2



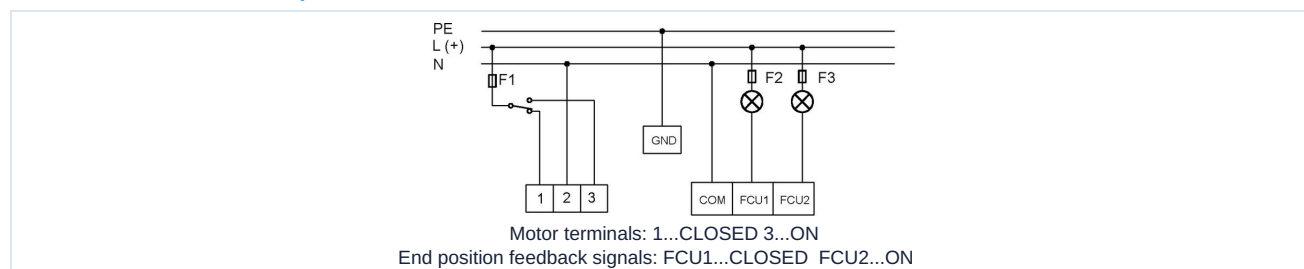
Kv values [m³/h]

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

Electrical data

Actuator type	Actuation time [Sek.]	Current consumption [A]		
		12VDC	24VAC/DC	100-240VAC
VB060	9	3,6	1,8	0,6-0,3
VB110	27	2	1	0,6-0,3
VB190	27	3,6	1,8	0,6-0,3
VB350	50	3,6	1,8	0,6-0,3

Electrical connection example VB030-VB190



Illustrations non-binding

Design, dimensional and material changes reserved

Armatures / Valves, butterfly valves and gate valves - automatically operated / Butterfly valves - electrically operated / Butterfly valve with electrical actuator Series BUW6-DE-02

