2-way Butterfly Valves flanged
DN50...800

For Open/Close or modulating control of sea water and brine

Applications

Typical applications include large heat-exchanger.

Technical data

Flow medium	Sea water and brine
Temperature of medium	Aluminium Bronze disc: -10...+80°C
Nominal pressure	1600kPa (PN16)
Flow characteristic	Modified equal-percentage
Rangeability	10:1 (for 30°... 70° range)
Leakage rate	Rate A Bubble Tight (ISO 5208)
Pipe connections	ISO 7005.2, AS2129 PN10/16, Table E for wafer (DN50..300) PN16 for wafer (DN350...800)
Max. Close-off pressure	1200kPa (DN50...600) 1000kPa (DN700...800)
Installation position	Vertical to horizontal
Maintenance	Maintenance-free
Angle of rotation	90° rotation
Valve Material	
Body	Ductile cast iron GGG40 (DN50..800)
Disc	Aluminium Bronze disc
Seat	NBR
Shaft	Stainless steel 416
Bushing	RPTFE

* Default: D6700..800AB Butterfly Valve and its Actuator are pre-calibrated and pre-assembled in the factory.

Ordering sample

D6 125 AB

- AB — Aluminium Bronze disc
- 125 — Size: DN125
- D6 — Butterfly Valve: D6.. series

Product features

The modified equal-percentage flow characteristic and the large Kv values provide an economical control valve solution.

Mode of operation

The Butterfly Valve is operated by a Rotary Actuator. Select the actuator according to required Close-off pressure and HVAC condition of installation. The actuators are controlled by a standard Open/ Close or modulating control system and rotate the disc of the valve to the position dictated by the control signal.

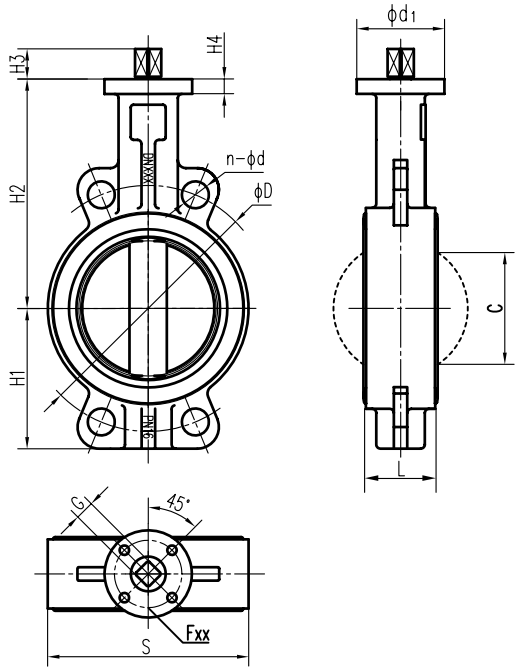
Manual operation

The manual operation is available by using a lever with manual override button of SR.., GR.., DGR.. actuator pressed or turning a handwheel of actuators.

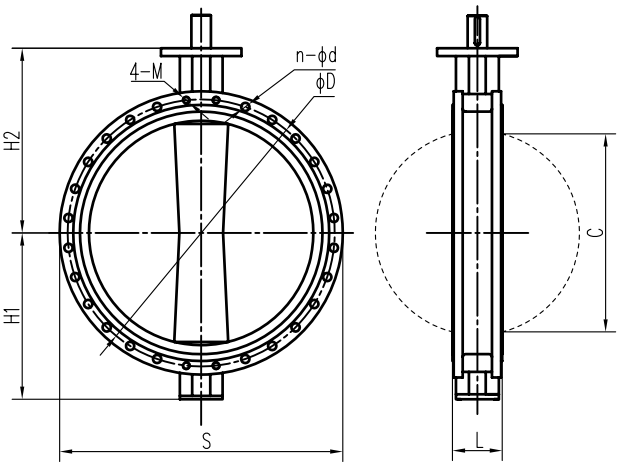
UL marked actuators is optional, please contact your local Sales Representative for details.

Dimensions of D6..AB Series Butterfly Valves

Trade Selection by Belimo



D650AB...D6600AB



D6700AB...D6800AB

Dimensions of PN16 wafer connection Butterfly Valve [mm]

Type	Size	Top Flange	L	C	S	H1	H2	H3	H4	G	ød1	PN10		PN16		Table E		Weight
												ø D	n-ød	ø D	n-ød	ø D	n-ød	(kg)
D650AB	DN50	F05	43	33	118	65	130	13	9	14	65	125	4-18	125	4-18	114	4-18	1.99
D665AB	DN65	F05	46	48	135	71	143	13	9	14	65	145	4-18	145	4-18	127	4-18	2.45
D680AB	DN80	F05	46	66	149	92	155	13	9	14	65	160	8-18	160	8-18	146	4-18	2.8
D6100AB	DN100	F05	52	91	150	104	170	13	11	14	65	180	8-18	180	8-18	178	8-18	4.2
D6125AB	DN125	F07	56	115	176	118	190	19	13	17	90	210	8-18	210	8-18	210	8-18	6.5
D6150AB	DN150	F07	56	142	204	132	210	19	13	17	90	240	8-22	240	8-22	235	8-22	8.2
D6200AB	DN200	F07	60	194	260	167	243	19	15	17	125	295	8-22	295	12-22	292	8-22	12.4
D6250AB	DN250	F10	68	245	316	198	282	24	17	22	125	350	12-22	355	12-26	356	12-22	19.7
D6300AB	DN300	F10	78	294	372	231	310	24	17	22	125	400	12-22	410	12-26	406	12-26	31.7
D6350AB	DN350	F10	78	328	422	256	345	24	20	22	125	-	-	470	16-26	-	-	41.1
D6400AB	DN400	F14	102	374	473	294	377	38	21	36	175	-	-	525	16-30	-	-	65.9
D6450AB	DN450	F14	114	425	526	337	422	38	21	36	175	-	-	585	20-30	-	-	82.2
D6500AB	DN500	F14	127	472	582	375	466	38	22	36	210	-	-	650	20-33	-	-	104.4
D6600AB	DN600	F16	154	573	708	459	562	52	29	36	210	-	-	770	20-36	-	-	185

Dimensions of PN16 wafer connection Butterfly Valve [mm]

Type	Size	L	C	S	H1	H2	4-M	PN16		Weight (kg)
								øD	n-ød	
D6700AB	DN700	163	674	910	540	631	M33	840	20-36	391
D6800AB	DN800	188	770	1025	607	674	M36	950	20-39	469.2

UL marked actuators is optional, please contact your local Sales Representative for details.

V7.2 03.2015•Subject to modification

Kv Value [m3/h]

Type	Size		90°	80°	70°	60°	50°	40°	30°	20°	10°
D650AB	DN50	2”	80	75	57	39	27	21	16	6.9	1.09
D665AB	DN65	2.5”	170	142	99	64	42	30	19	7.5	5.2
D680AB	DN80	3”	290	278	205	139	87	51	34	21	7.7
D6100AB	DN100	4”	560	404	270	137	105	67	46	26	6.3
D6125AB	DN125	5”	870	744	502	306	186	113	60	33	15.6
D6150AB	DN150	6”	1340	1185	720	472	294	171	94	47	25.9
D6200AB	DN200	8”	2690	2360	1483	956	617	362	211	88	52
D6250AB	DN250	10”	5540	3948	2364	1502	911	588	334	193	84.5
D6300AB	DN300	12”	7540	6147	3607	2083	1229	706	401	164	4.13
D6350AB	DN350	14”	10300	9348	6233	3938	2380	1335	616	291	5.2
D6400AB	DN400	16”	14300	12856	8571	5416	3237	1836	847	400	6.9
D6450AB	DN450	18”	18900	17028	11352	7172	4334	2433	1122	530	9.5
D6500AB	DN500	20”	24200	21893	14596	9222	5573	3128	1443	682	12
D6600AB	DN600	24”	37169	33901	22549	14248	8611	4832	2230	1053	22
D6700AB	DN700	28”	42672	30084	19628	12887	8621	5721	3137	1563	36
D6800AB	DN800	32”	58836	41480	27065	17770	11886	7531	4130	2058	45

Max. Close-off Pressure △Ps and linkage — D6..AB series

Type	IP54 Actuator (Indoor Use)		
	SR..A(-..)-5 [20Nm]	GR..A-5/-7 [40Nm]	DR..A(-..)-7 [72Nm]
	△Ps kPa	△Ps kPa	△Ps kPa
D650AB	1200	-	-
D665AB	1200	-	-
D680AB	1200	-	-
D6100AB	-	1200	-
D6125AB	-	-	1200
D6150AB	-	-	1200

Type	IP67 Actuator (Outdoor Use)									
	SY1.. [35Nm]	SY2.. [90Nm]	SY3.. [150Nm]	SY4.. [400Nm]	SY6.. [650Nm]	SY7.. [1000Nm]	SY8.. [1500Nm]	SY12.. [3500Nm]	QB8000.. [8000Nm]	QB10000.. [10000Nm]
	△Ps kPa	△Ps kPa	△Ps kPa	△Ps kPa	△Ps kPa	△Ps kPa	△Ps kPa	△Ps kPa	△Ps kPa	△Ps kPa
D650AB	1200	-	-	-	-	-	-	-	-	-
D665AB	1200	-	-	-	-	-	-	-	-	-
D680AB	1200	-	-	-	-	-	-	-	-	-
D6100AB	1200	-	-	-	-	-	-	-	-	-
D6125AB	-	1200	-	-	-	-	-	-	-	-
D6150AB	-	1200	-	-	-	-	-	-	-	-
D6200AB	-	-	1200	-	-	-	-	-	-	-
D6250AB	-	-	-	1200	-	-	-	-		-
D6300AB	-	-	-	1200	-	-	-	-	-	-
D6350AB	-	-	-	-	1200	-	-	-	-	-
D6400AB	-	-	-	-	-	1200	-	-	-	-
D6450AB	-	-	-	-	-	-	1200	-	-	-
D6500AB	-	-	-	-	-	-	1200	-		-
D6600AB	-	-	-	-	-	-	-	1200	-	-
D6700AB	-	-	-	-	-	-	-	-	1000	-
D6800AB	-	-	-	-	-	-	-	-	-	1000

UL marked actuators is optional, please contact your local Sales Representative for details.