

EXT-HH-D6.. H Series Butterfly Valves



Trade Selection by Belimo



2-way Butterfly Valves flanged
DN50...500



For 2-point or modulating control of cold and warm water.

Applications

Typical applications include chiller isolation, cooling tower isolation, change-over systems, large air handling coil control, bypass and process control.

Technical data

Flow medium	Cold and warm water, Max. 50% glycol
Temperature of medium	-10°C...+120°C
Nominal pressure	2500kPa (PN25)
Leakage rate	Rate A Bubble tight (ISO 5208)
Pipe connections	ISO 7005.2 PN25 lug DN50...500
Max. Close-off pressure	2200kPa
Installation position	Vertical to horizontal
Maintenance	Maintenance-free
Angle of rotation	90° rotation
Valve Material	
Body	Ductile cast iron GGG40 (DN50...500)
Disc	Stainless steel 304
Seat	EPDM
Stem	Stainless steel 431

Default: D6500H Butterfly Valve and its actuator are pre-calibrated and pre-assembled in the factory.

Mode of operation

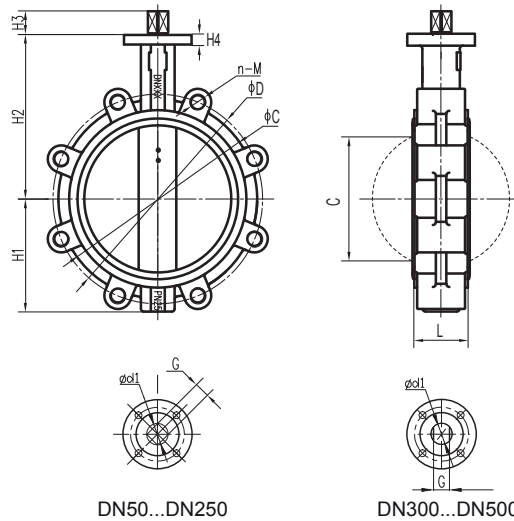
The Butterfly Valve is operated by a Rotary Actuator. Select the actuator according to required Close-off pressure and HVAC condition of installation. The actuators are controlled by a standard Open/Close or modulating control system and rotate the disc of the valve to the position dictated by the control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

Manual operation

The manual operation is available by using a lever with manual override button of GR..., DR..., PR..., SY..., EXT-HH-903.. actuator pressed or turning a handwheel of actuators.

Kv Value [m³/h]

Type	Size		Percent Open									
			10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
			Opening Angle(°)									
			9	18	27	36	45	54	63	72	81	90
DN		Inch	2-way Kvs (m ³ /h)									
EXT-HH-D650H	50	2"	0.3	4.7	14	25	40	60	75	80	80	80
EXT-HH-D665H	65	2.5"	0.3	7.1	20	40	65	95	120	140	150	155
EXT-HH-D680H	80	3"	0.5	11	30	60	100	145	195	235	250	260
EXT-HH-D6100H	100	4"	1.6	23	50	70	105	160	235	315	390	410
EXT-HH-D6125H	125	5"	3.2	35	90	150	235	345	490	645	745	780
EXT-HH-D6150H	150	6"	10	65	140	235	360	540	780	1055	1285	1350
EXT-HH-D6200H	200	8"	25	110	225	370	575	865	1290	1840	2410	2575
EXT-HH-D6250H	250	10"	25	150	310	525	830	1280	1920	2740	3490	3825
EXT-HH-D6300H	300	12"	40	210	435	730	1165	1815	2760	4015	5325	6030
EXT-HH-D6350H	350	14"	90	255	525	900	1435	2225	3405	5025	6715	7505
EXT-HH-D6400H	400	16"	135	430	810	1330	2085	3205	4820	6850	8800	9720
EXT-HH-D6450H	450	18"	195	550	1055	1700	2655	4090	6180	8940	11680	12775
EXT-HH-D6500H	500	20"	270	730	1345	2160	3370	5180	7830	11405	15140	16785



Dimensions of PN25 lug connection Butterfly Valves [mm]

Type	Size	Top flange	L	C	øC	H1	H2	H3	H4	G	ø d1	PN25		SS BFV (kg)
												øD	n-M	
EXT-HH-D650H	DN50	F05	43	28	89	80	161	13	11	14	18	125	4-M16	3.4
EXT-HH-D665H	DN65	F05	46	42	108	89	175	13	11	14	18	145	8-M16	5.3
EXT-HH-D680H	DN80	F05	46	63	120	95	181	13	12	14	18	160	8-M16	4.6
EXT-HH-D6100H	DN100	F05	52	89	150	114	200	13		14	18	190	8-M20	7.2
EXT-HH-D6125H	DN125	F07	56	109	180	127	213	19		17	22.1	220	8-M24	10.1
EXT-HH-D6150H	DN150	F10	56	145	208	139	226	24	15	22	28.2	250	8-M24	13.1
EXT-HH-D6200H	DN200	F10	60	193	260	175	260	24	15	22	28.2	310	12-M24	21.1
EXT-HH-D6250H	DN250	F10	68	241	320	203	292	24	15	22	28.2	370	12-M27	29.8
EXT-HH-D6300H	DN300	F14	78	291	375	242	337	48	23	27	36.2	430	16-M27	48.5
EXT-HH-D6350H	DN350	F14	78	324	405	267	368	48	23	27	36.2	490	16-M30	62.4
EXT-HH-D6400H	DN400	F16	102	376	470	298	400	48	26	36	48.2	550	16-M33	106.5
EXT-HH-D6450H	DN450	F16	114	426	520	318	422	48	26	36	48.2	600	20-M33	127.5
EXT-HH-D6500H	DN500	F25	127	475	565	355	480	66	31	46	60.2	660	20-M33	200.1

Max. Close-off pressure ΔPs and linkage — EXT-HH-D6..H series

Type	GR...5 [40Nm]	PR... [160Nm]	SY4... [400Nm]	SY6... [650Nm]	SY7... [1000Nm]	SY8... [1500Nm]	SY10 [2500Nm]	SY12 [3500Nm]	EXT-HH-9032.. [5000Nm]	EXT-HH-9033.. [10000Nm]
Closing Pressure ΔPs, kPa										
EXT-HH-D650H	2200									
EXT-HH-D665H	2200									
EXT-HH-D680H	2200									
EXT-HH-D6100H		2200 ⁵⁾								
EXT-HH-D6125H		2200 ⁴⁾								
EXT-HH-D6150H			2200							
EXT-HH-D6200H			2200							
EXT-HH-D6250H				2200						
EXT-HH-D6300H					2200 ²⁾	2200 ²⁾				
EXT-HH-D6350H							2200 ³⁾			
EXT-HH-D6400H								2200 ⁴⁾	2200	
EXT-HH-D6450H								2200 ⁴⁾	2200	
EXT-HH-D6500H										2200

Linkages:

- 1) ZPR01 2) ZSY-722 3) ZSY-920 4) ZSY-921 5) ZPR03

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