

Butterfly valve with Wafer types

• For open and closed cold and warm water systems

• For switching heat generators or cooling machines on/off

Technical data sheet



Type overview

Туре	DN	kvmax [m³/h]	PN	
D6200W	200	2200	820	6 / 10 / 16
D6250W	250	4200	1300	6 / 10 / 16
D6300W	300	5700	1740	6 / 10 / 16

Technical data

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.					
	Fluid temperature	-20120°C					
	Flow characteristic	0100% opening angle: S-form; 060% opening angle: equal percentage					
	Flow characteristic note	For butterfly valve actuator combinations with the PR actuator, the flow characteristic can be set to linear using the Belimo Assistant App					
	Leakage rate	tight, leakage rate A (EN 12266-1)					
	Angle of rotation	90°					
	Installation position	upright to horizontal (in relation to the stem)					
	Suitable connection flange	In accordance with ISO 7005-1 and EN 1092-1 In accordance with ISO 7005-2 and EN 1092-2 In accordance with DIN 2641 and DIN 2642 PN6/10/16, AS Table E					
	Servicing	maintenance-free					
Materials	Valve body	EN-GJS-400-15 (GGG 40)					
	Closing element	Stainless steel AISI 304 (CF-8, 1.4308)					
	Stem	Stainless steel AISI 420 (1.4021)					
	Stem seal	EPDM O-ring					
	Stem bearing	Bronze, steel, PTFE					
	Seat	EPDM					

Safety notes



Technical data sheet

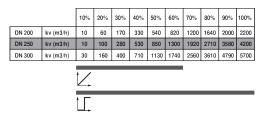
• The valve has been designed for use in stationary heating, ventilation and air-conditioning systems and must not be used outside the specified field of application, especially in aircraft or in any other airborne means of transport.

- Only authorised specialists may carry out installation. All applicable legal or institutional installation regulations must be complied during installation.
- The valve does not contain any parts that can be replaced or repaired by the user.
- The valve may not be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- When determining the flow rate characteristic of controlled devices, the recognised directives must be observed.
- The damper must be opened and closed slowly in order to avoid hydronic shocks in the pipe system.
- The valve is not allowed to be operated without actuator or worm gear while flow is in the pipe. Without actuator or worm gear, the valve could close and cause damage (water hammer).

Product features							
Mode of operation	The butterfly valve is opened or closed completely by an open/close rotary actuator. Continuous rotary actuators are connected by a commercially available controller and move the valve to any position desired. The valve disk made of stainless steel is pressed into the soft-sealing EPDM seat by a rotary movement and ensures leakage rate A (tight). The pressure losses are slight in the open position and the kv value is at a maximum.						
Manual override	Manual throttling or isolation can be carried out with a worm gear (see «Accessories»).						
	The worm gear with position indication is steplessly adjustable (self-locking).						
Accessories							
Mechanical accessories	Description	Туре					
	Worm gear for butterfly valves DN 125300	ZD6N-S150					
Installation notes							
Recommended installation positions	The butterfly valves may be mounted upright to horizontal. The but hanging position i.e. with the spindle pointing downwards.						
Water quality requirements	The water quality requirements specified in VDI 2035 must be adh	ered to.					
Servicing	Butterfly valves and rotary actuators are maintenance-free. Before any service work on the final controlling device is carried or actuator from the power supply (by unplugging the electrical cable the piping system concerned must also be switched off and the ap components to cool down first if necessary and always reduce the level). The system must not be returned to service until the butterfly valve reassembled correctly in accordance with the instructions and the professionally trained personnel. To avoid a torque increase during off season shut down, exercise the at least once a month	e if necessary). Any pumps in the part of ppropriate slide valves closed (allow all system pressure to ambient pressure e and the rotary actuator have been pipeline has been refilled by					
Flow setting	at least once a month. The Belimo butterfly valves have an approximate equal percentage opening angle. The following table shows the respective kv values in relation to th						



Technical data sheet



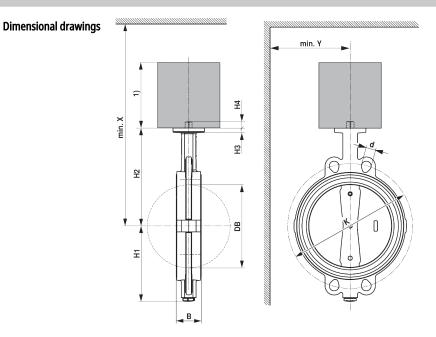
Parametrisation linear characteristic curve

For butterfly valve actuator combinations with the PR actuator, the flow characteristic can be set to linear using the Belimo Assistant App.

The following table shows the respective kv values in relation to the control signal (%).

		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
DN 200	kv (m3/h)	220	440	660	880	1100	1320	1540	1760	1980	2200
DN 250	kv (m3/h)	420	840	1260	1680	2100	2520	2940	3360	3780	4200
DN 300	kv (m3/h)	570	1140	1710	2280	2850	3420	3990	4560	5130	5700

Dimensions



The actuator dimensions can be found on the respective actuator data sheet.

Туре	DN	В	DB	H1	H2	H3	H4	d (PN6)	K (PN6)	d (PN10)	K (PN10)
		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]		[mm]
D6200W	200	60	202	176	250	15	19	8 x M16	280	8 x M20	295
D6250W	250	68	250	216	280	15	19	12 x M16	335	12 x M20	350
D6300W	300	78	301	248	325	15	19	12 x M20	395	12 x M20	400

Туре	d (PN16)	. ,	d (Table E)	. ,	Х	Y	
		[mm]		[mm]	[mm]	[mm]	<u>/ kg \</u>
D6200W	12 x M20	295	8 x M20	292	500	300	14
D6250W	12 x M24	355	12 x M20	356	530	300	20
D6300W	12 x M24	410	12 x M24	406	580	300	31

Further documentation

- The complete product range for water applications
- Data sheets for actuators
- Installation instructions for actuators and/or butterfly valves
- General notes for project planning