

Butterfly valve with Wafer types

- For open and closed cold and warm water systems
- For switching heat generators or cooling machines on and off



Type overview

Туре	DN	kvmax	kvs	PN		
	[]	[m ³ /h]	[m ³ /h]	[]		
D6200W	200	2200	820	6/10/16		
D6250W	250	4200	1300	6/10/16		
D6300W	300	5700	1740	6/10/16		

Technical data

Safety notes

Functional data

Media	Cold and warm water, water with glycol up to max. 50% vol.
Medium temperature	-20120°C
Permissible pressure ps	1600 kPa
Leakage rate	Leakage rate A, tight (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
Maintenance	Maintenance-free
Body	EN-GJS400-15 (GGG 40), polyester-powder coating
Closing element	1.4308 (stainless steel)
Stem	1.4021 (stainless steel)
Stem seal	O-ring EPDM
Stem bearing	Bronze, steel, PTFE
Seat	EPDM

Materials



- The valve has been designed for use in stationary heating, ventilation and airconditioning 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 hydraulic 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

Mechanical accessories

Manual throttling or shut-off can be carried out with a worm gear (see «Accessories»). The worm gear with position indication is steplessly adjustable (self-locking).

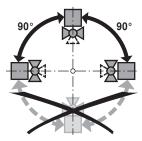
Accessories

Description	Туре
Worm gear for butterfly valves DN125 300	7D6N-S150

Installation notes

Recommended installation positions

The butterfly valves may be mounted upright to horizontal. The butterfly valves may not be installed in a hanging position i.e. with the spindle pointing downwards.



Water quality requirements

The water quality requirements specified in VDI 2035 must be adhered to.

Maintenance

Butterfly valves and rotary actuators are maintenance-free.

Before any service work on the final controlling device is carried out, it is essential to isolate the rotary actuator from the power supply (by unplugging the electrical cable if necessary). Any pumps in the part of the piping system concerned must also be switched off and the appropriate slide valves closed (allow all components to cool down first if necessary and allways reduce the system pressure to ambient pressure level).

The system must not be returned to service until the butterfly valve and the rotary actuator have been reassembled correctly in accordance with the instructions and the pipeline has been refilled by professionally trained personnel.

To avoid a torque increase during off season shut down, exercise the butterfly valve (full open and close) at least once a month.

Flow setting

The Belimo butterfly valves have an approximate equal percentage characteristic curve between 0 and 60 percent opening angle.

		10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
DN 200	kv (m3/h)	10	60	170	330	540	820	1200	1640	2000	2200
DN 250	kv (m3/h)	10	100	280	530	850	1300	1920	2710	3580	4200
DN 300	kv (m3/h)	30	160	400	710	1130	1740	2560	3610	4790	5700

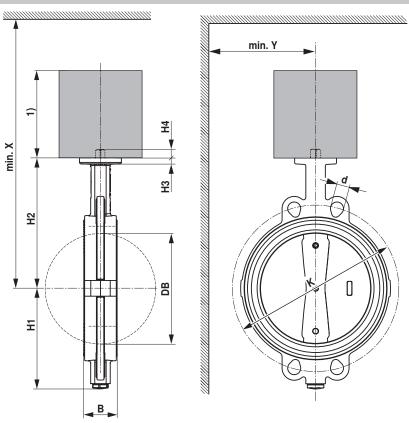


Table: Valve opening / flow



Dimensions / Weight

Dimensional drawings



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

Туре	DN	В	DB	H1	H2	H3	H4	d (PN6)	K (PN6)
	[]	[mm]		[mm]					
D6200W	200	60	202	172	240	15	19	8 x M16	280
D6250W	250	68	250	206	268	15	24	12 x M16	335
D6300W	300	78	301	244	316	15	24	12 x M20	395

Туре	d (PN10)	K (PN10)	d (PN16)	K (PN16)	X	Υ	Weight
		[mm]		[mm]	[mm]	[mm]	[kg]
D6200W	8 x M20	295	12 x M20	295	500	300	13
D6250W	12 x M20	350	12 x M24	355	530	300	21
D6300W	12 x M20	400	12 x M24	410	580	300	32

Further documentation

- · Overview Valve-actuator combinations
- · Data sheets for actuators
- · Installation instructions for actuators and/or butterfly valves
- · General notes for project planning