

systems

machines on/off

• For open and closed cold and warm water

• For switching heat generators or cooling

Technical data sheet



Type overview

Туре	DN	kvmax [m³/h]	kvs [m³/h]	PN	
D6200WL	200	2200	820	16	
D6250WL	250	4200	1300	16	
D6300WL	300	5700	1740	16	

Technical data

Functional data	Fluid	Cold and warm water, water with glycol up to max. 50% vol.					
	Fluid temperature	-20120°C					
	Flow characteristic	060% opening angle: equal percentage 0100% opening angle: S-form					
	Flow characteristic note	0100% opening angle: linear (only with PR BAC actuator) For butterfly valves with PRBAC actuator, the					
		flow characteristic can be parametrised to equal percentage or 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					
	Servicing	maintenance-free					
Materials	Valve body	EN-GJS-400-15 (GGG 40)					
	Closing element	Stainless steel AISI 304 (CF-8, 1.4308)					
	Spindle	Stainless steel AISI 420 (1.4021)					
	Spindle seal	EPDM O-ring					
	Spindle bearing	Bronze, steel, PTFE					
	Seat	EPDM					



Â	 The valve has been designed for use in stationary heating, v systems and must not be used outside the specified field of in any other airborne means of transport. Only authorised specialists may carry out installation. All appinstallation regulations must be complied during installation. The valve does not contain any parts that can be replaced or The valve may not be disposed of as household refuse. All lorrequirements must be observed. When determining the flow rate characteristic of controlled must be observed. The damper must be opened and closed slowly in order to a system. The valve is not allowed to be operated without actuator or pipe. Without actuator or worm gear, the valve could close a hammer). 	application, especially in aircraft or plicable legal or institutional n. repaired by the user. ocally valid regulations and devices, the recognised directives woid hydronic shocks in the pipe worm gear while flow is in the					
Product features							
Mode of operation	The butterfly valve is opened or closed completely by an open rotary actuators are connected by a commercially available co position desired. The valve disk made of stainless steel is pres seat by a rotary movement and ensures leakage rate A (tight) the open position and the kv value is at a maximum.	ontroller and move the valve to any sed into the soft-sealing EPDM					
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 installed in a hanging position i.e. with the spindle pointing de						
Water quality requirements	The water quality requirements specified in VDI 2035 must be	adhered to.					
Servicing	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 always 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, exer and close) at least once a month.	cise the butterfly valve (full open					

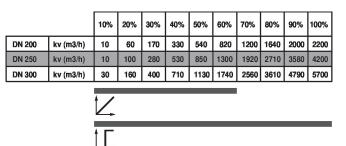


Technical data sheet

Flow setting

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

The following table shows the respective kv values in relation to the opening angle (%).



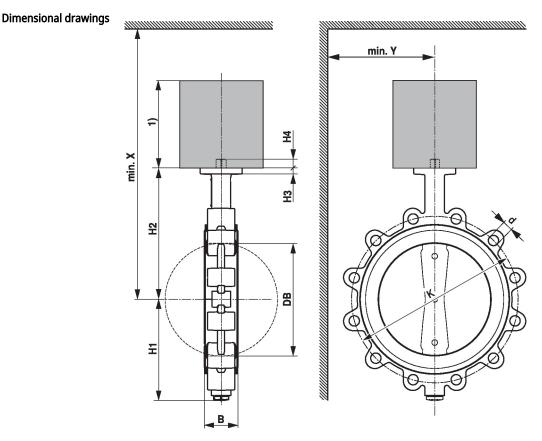
Parametrisation linear characteristic curve

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	B [mm]	DB [mm]	H1 [mm]	H2 [mm]	H3 [mm]	H4 [mm]	d (PN16)	K (PN16) [mm]	X [mm]	Y [mm]	A kg
D6200WL	200	60	195	175	250	15	19	12 x M20	295	500	300	14
D6250WL	250	68	245	215	280	15	19	12 x M24	355	530	300	20
D6300WL	300	78	293	247	325	15	19	12 x M24	410	580	300	31



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