

Robinet à papillon avec Classe ANSI 300 Version à oreilles taraudées

- Disque Acier inoxydable 316
- Étanchéité à la bulle à la fermeture
- Siège en téflon
- Les dimensions face à face du robinet sont conformes aux normes API 609 et MSS-SP-67
- Pour utilisation avec service en bout de conduite
- Entièrement assemblé et testé, prêt pour l'installation



garantie de 5 ans

Aperçu des différents types

Type	DN
F6100-300SHP	100

Caractéristiques techniques

Données fonctionnelles	Taille du robinet[mm]	4" [100]
	Fluide	eau réfrigérée ou chaude, jusqu'à 60% de glycol, vapeur
	Plage de température du fluide (eau)	-30...204°C [-22...400°F]
	Pression nominale du corps	Classe ANSI 300
	Pression de fermeture Δps	285 psi
	Caractéristique de débit	égal pourcentage modifié, unidirectionnel
	Raccord de tuyau	Bride à utiliser avec ASME/ANSI classe 300
	Entretien	sans entretien
	Configuration d'écoulement	2 voies
	Taux d'étanchéité	0%
	Débit réglable	quart de tour, limité mécaniquement
	Cv	451
	Pression d'entrée maximale (vapeur)	50 psi
	Vitesse maximale	32 FPS
	Fils de languette	3/4-10 UNC
Matériaux	Corps de robinet	Oreille complète en acier au carbone (ASME B16.34)
	Tige de manœuvre	17-4PH acier inoxydable
	Siège	RPTFE
	Palier	PTFE à dos de verre
	Disque	Acier inoxydable 316
Suitable actuators	Sans sûreté intégrée	GMB(X) (2*GMB(X)) PRB(X)
	Électricité à sûreté intégrée	(2*GKB(X)) PKRB(X)

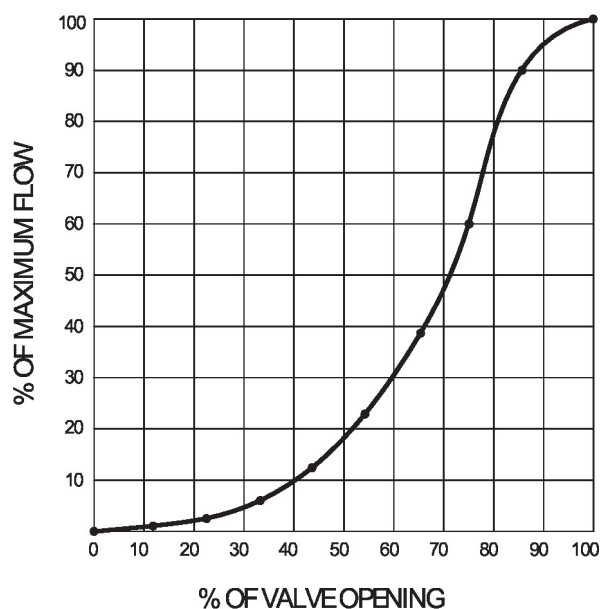
Notes de sécurité



- **AVERTISSEMENT** : Ce produit présente un risque d'exposition au plomb, matériau reconnu par l'État de Californie pour causer le cancer et des troubles de la reproduction. Pour plus de renseignements, visitez www.p65warnings.ca.gov.

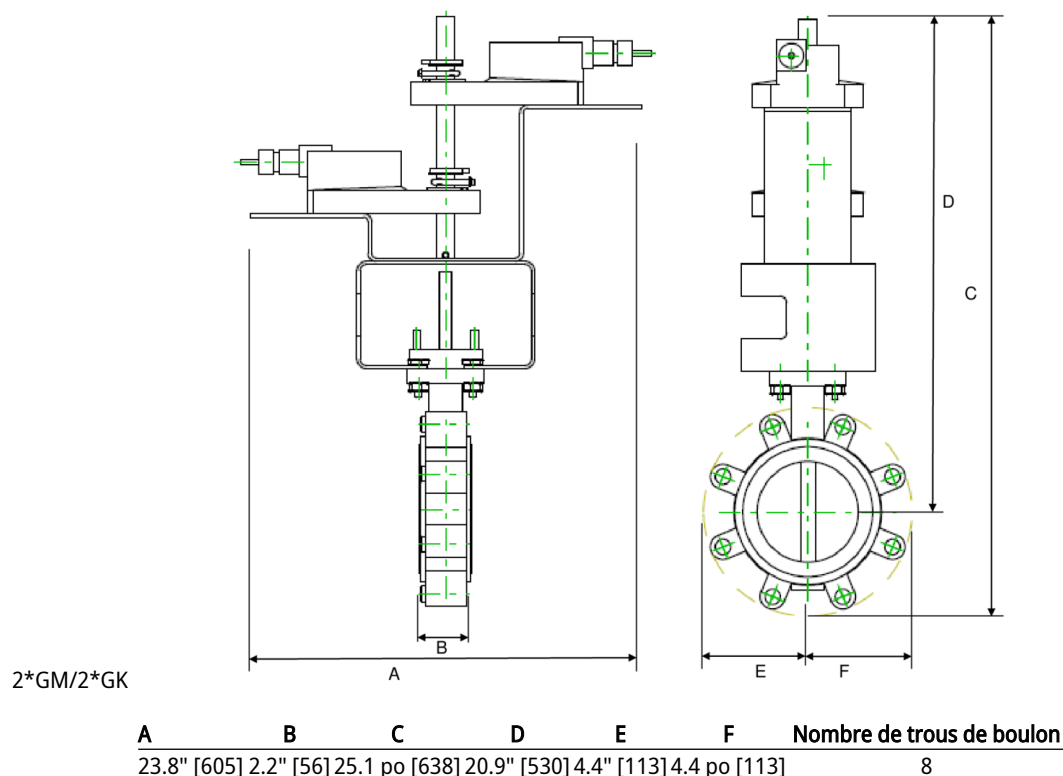
Caractéristiques du produit

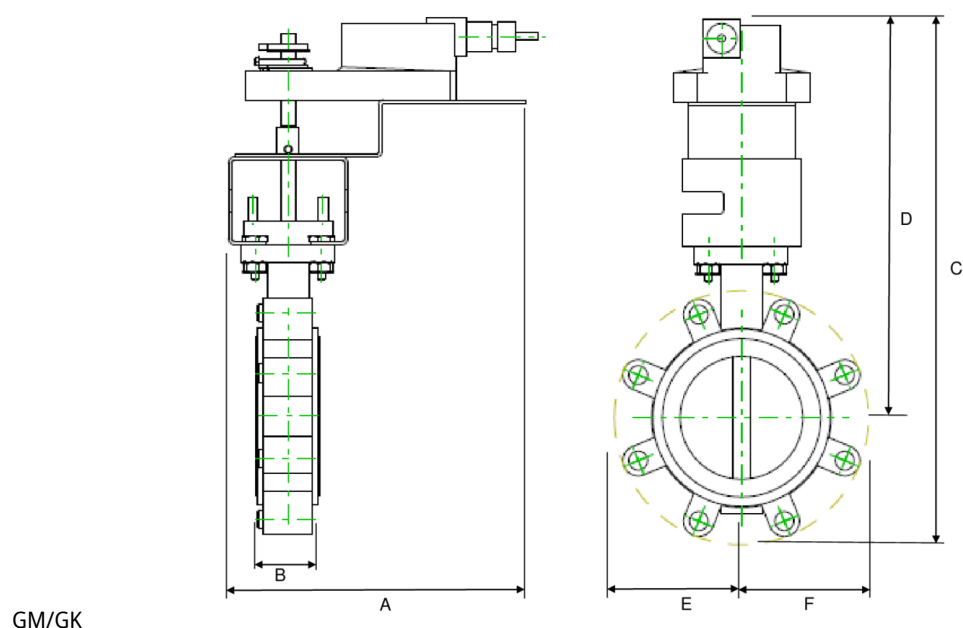
Détails débit/montage



Dimensions

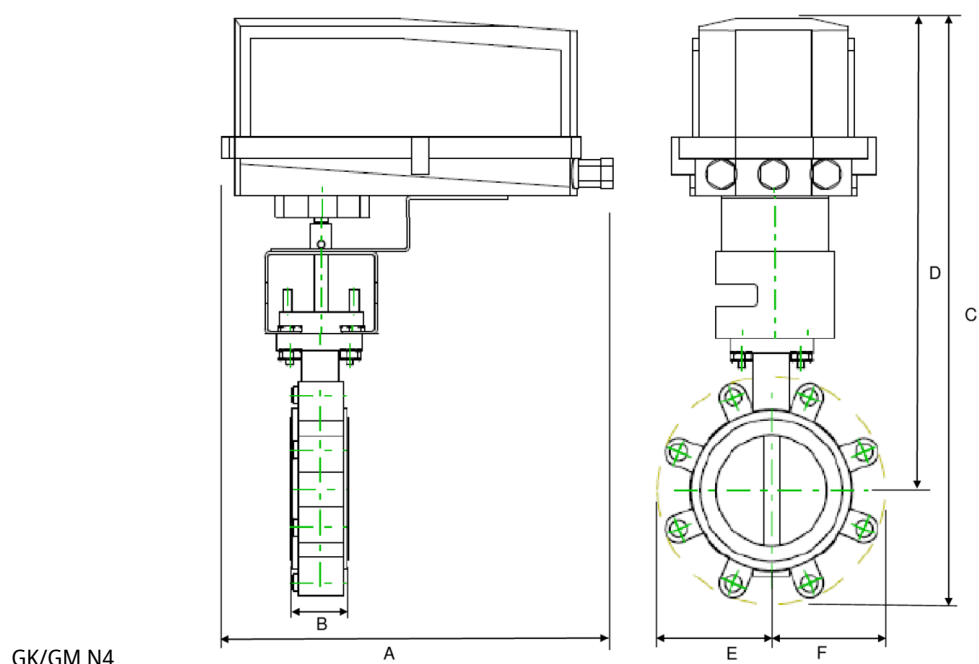
Type	DN	Poids
F6100-300SHP	100	29 lb [13 kg]





GM/GK

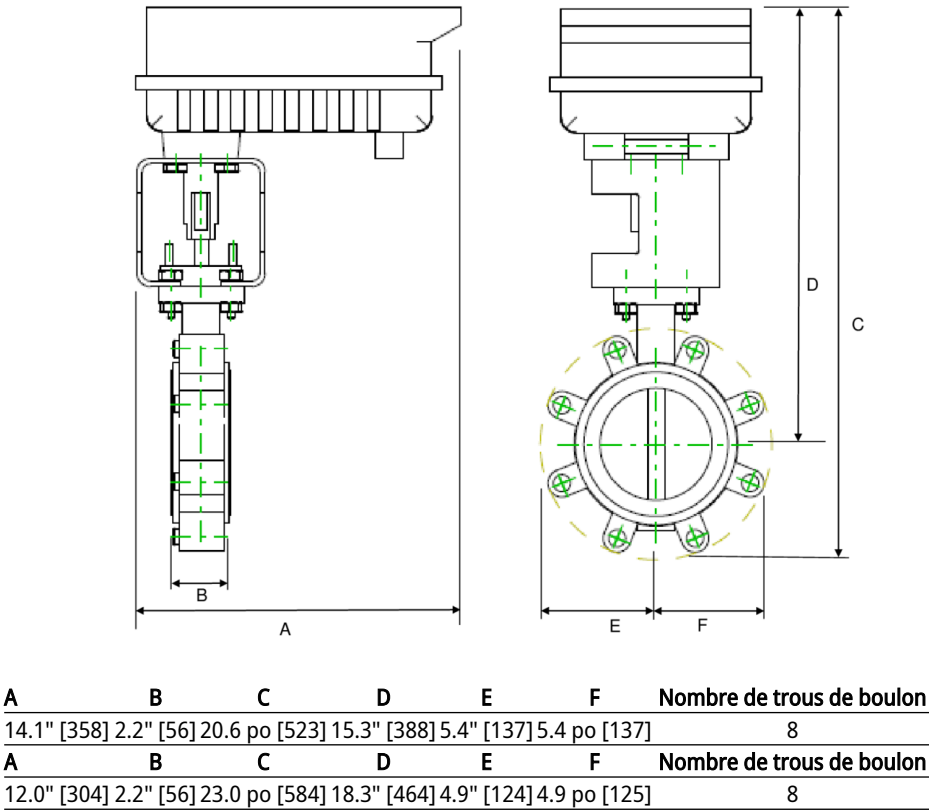
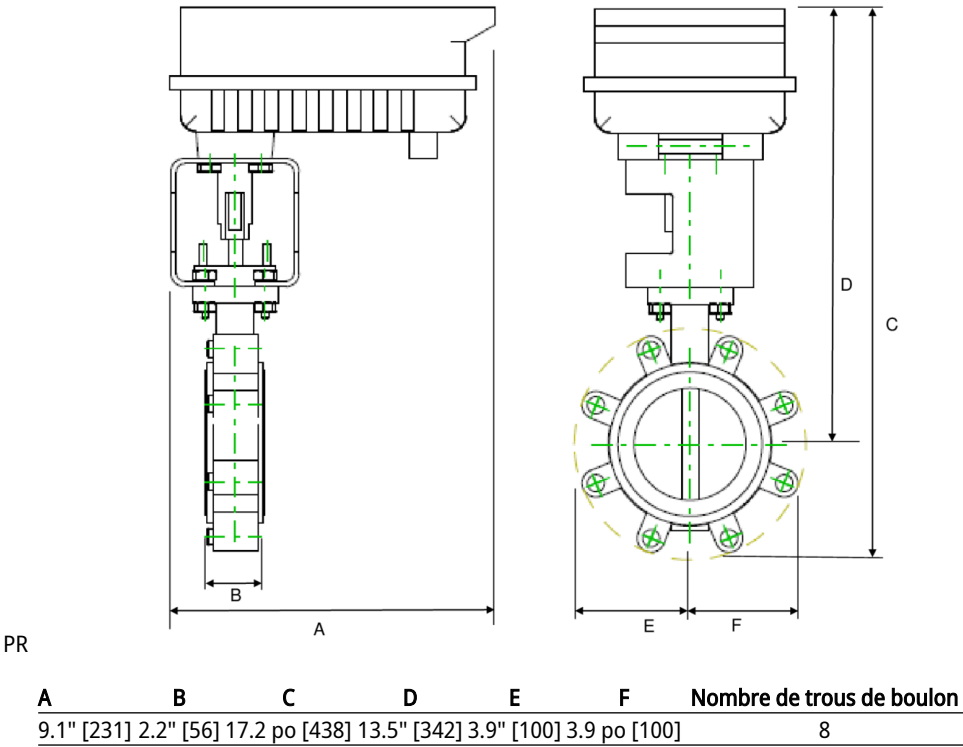
A	2B	C	D	E	F	Nombre de trous de boulon
15.3" [388]	2.2" [56]	16.8 po [426]	13.0" [331]	3.9" [100]	3.9 po [100]	8



GK/GM N4

A	B	C	D	E	F	Nombre de trous de boulon
10.9" [277]	2.2" [56]	18.7 po [476]	14.0" [355]	4.9" [124]	4.9 po [125]	8

Dimensions



Rotary actuator for butterfly valves

- Nominal voltage AC 24...240 V / DC 24...125 V
- Control On/Off, Floating point
- With two integrated auxiliary switches



5-year warranty



Picture may differ from product

Technical data

Electrical data	Nominal voltage	AC 24...240 V / DC 24...125 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.2...264 V / DC 19.2...137.5 V
	Power consumption in operation	20 W
	Power consumption in rest position	7 W
	Transformer sizing	with 24 V 20 VA / with 240 V 55 VA
	Auxiliary switch	2x SPDT, 1x 10° / 1x 0...90° (default setting 85°)
	Switching capacity auxiliary switch	1 mA...3 A (0.5 A inductive), DC 5 V...AC 250 V
	Connection protective earth	20...14 AWG, only copper wires
	Electrical Connection	Terminal blocks, (PE) Ground-Screw
	Overload Protection	electronic throughout 0...90° rotation
Data bus communication	Communicative control	BACnet MS/TP Modbus RTU MP-Bus
	Number of nodes	BACnet / Modbus see interface description MP-Bus max. 16
Functional data	Position accuracy	±5%
	Manual override	hand lever
	Running Time (Motor)	35 s / 90°
	Running time motor variable	20...120 s
	Noise level, motor	65 dB(A)
	Position indication	Mechanical, integrated
Safety data	Power source UL	Class 2 Supply
	Degree of protection IEC/EN	IP66/67
	Degree of protection NEMA/UL	NEMA 4X
	Housing	UL Enclosure Type 4X
	EMC	CE according to 2014/30/EU
	Low voltage directive	CE according to 2014/35/EU
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-14
	UL Approval	cULus according to UL60730-1A, UL60730-2-14 and CAN/CSA E60730-1 The UL marking on the actuator depends on the production site, the device is UL-compliant in any case

Technical data

Safety data	Overvoltage category	III
	Rated impulse voltage supply	4 kV
	Ambient humidity	Max. 100% RH
	Ambient temperature	-22...122°F [-30...50°C]
	Storage temperature	-40...176°F [-40...80°C]
	Software Class	A
	Servicing	maintenance-free
Weight	Weight	8.1 lb [3.7 kg]

Safety notes



- This device 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.
- Caution: Power supply voltage!
- The device has a protective earthing. Incorrect connection of the protective earth can lead to hazards due to electrical shock.
- Only authorized specialists may carry out installation. All applicable legal or institutional installation regulations must be complied with during installation.
- Apart from the wiring compartment, the device may be opened only at the manufacturer's site. It does not contain any parts that can be replaced or repaired by the user.
- The device contains electrical and electronic components and must not be disposed of as household refuse. All locally valid regulations and requirements must be observed.
- The two switches integrated in the actuator are to be operated either on power supply voltage or at safety extra-low voltage. The combination power supply voltage/safety extra-low voltage is not permitted.
- For maintenance work, the correct valve position must be set via the control signal. Additionally, the actuator must be disconnected from the power source. The hand crank and manual override shall not be used as a safety measure to maintain the valve position.

Product features

Fields of application	The actuator is particularly suitable for utilisation in outdoor applications and is protected against the following weather conditions: - UV radiation - Dirt / Dust - Rain / Snow - Air humidity
Internal heating	An internal heater prevents condensation buildup. Thanks to the integrated temperature and humidity sensor, the built-in heater automatically switches on/off.
Parametrizable actuators	The factory settings cover the most common applications. Belimo Assistant 2 is required for parametrisation via Near Field Communication (NFC) and simplifies commissioning. Moreover, Belimo Assistant 2 provides a variety of diagnostic options. The ZTH EU service tool provides a selection of both diagnostic and setting options.
Simple direct mounting	Simple direct mounting on the butterfly valve. The mounting orientation in relation to the butterfly valve can be selected in 90° (angle) increments.
Manual override	The valve can be manually operated using a hand crank. Unlocking is carried out manually by removing the hand crank.

Product features

- High functional reliability** The actuator is overload protected, requires no limit switches and automatically stops when the end stop is reached.
- Innovative motorization** The actuator uses the powerful Belimo M600 microchip in combination with the INFORM method. It provides the full starting torque from a standstill with high precision (sensorless INFORM-Drive by Prof. Schrödl).
- Flexible signaling** The actuator has one auxiliary switch with a fixed setting (10°) and one adjustable auxiliary switch (0...90°).

Accessories

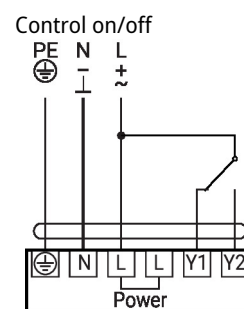
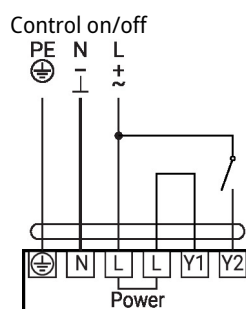
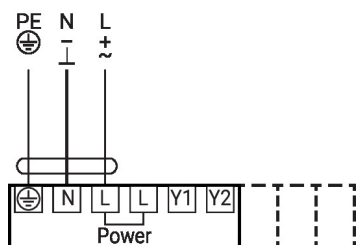
Tools	Description	Type
	Service-Tool for wired and wireless setup, on-site operation, and troubleshooting.	Belimo Assistant 2
	Universal converter, with ZIP-USB function and Bluetooth to NFC conversion, for wired and wireless connection of the device to PC/tablet/smartphone	Belimo One Tool
	Connecting cable 16 ft [5 m], A: RJ11 6/4 ZTH EU, B: 6-pin for connection to service socket	ZK1-GEN
Mechanical accessories	Description	Type
	Hand crank for JR actuator	ZJR20

Electrical installation

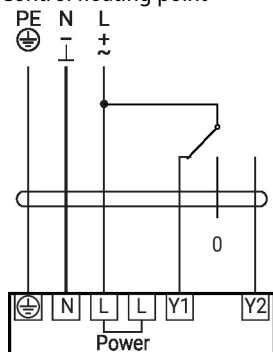

Caution: Power supply voltage!

Parallel connection of other actuators possible. Observe the performance data.

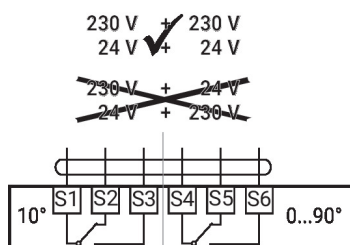
AC 24...240 V / DC 24...125 V



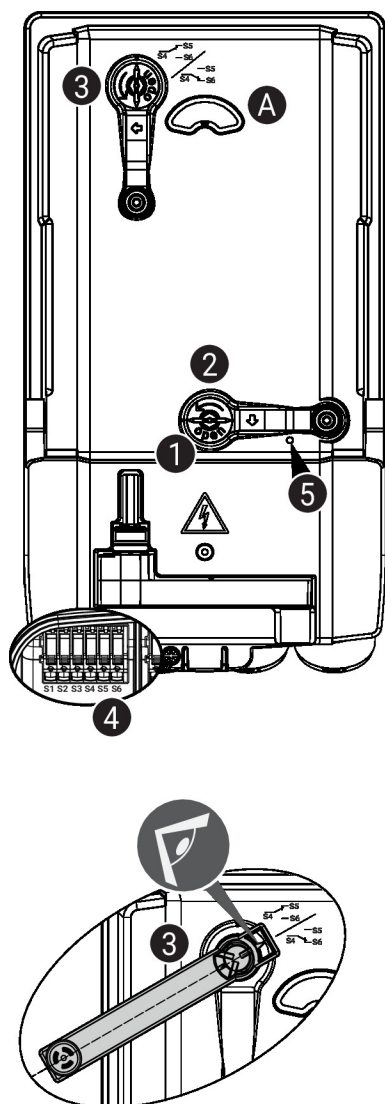
Control floating point



Auxiliary switch



Operating controls and indicators



5 LED display green

Off: No power supply or malfunction

On: In operation

Auxiliary switch settings



Note: Perform settings on the actuator only in deenergised state.

For the auxiliary switch position settings, carry out points 1 to 4 successively.

1 Gear train disengagement

Opening the manual override cover and adjusting the hand crank.

Manual override is possible.

2 Manual override

Turn the hand crank until the desired switching position A is indicated and then remove the hand crank.

3 Auxiliary switch

For the auxiliary switch position settings, carry out points 1 to 4 successively.

Opening the auxiliary switch adjustment cover and adjusting the hand crank.

Turn the hand crank until the arrow points to the line.

4 Terminals

Connect continuity tester to S4 + S5 or to S4 + S6.

If the auxiliary switch should switch in the opposite direction, rotate the hand crank by 180°.

Service

Rotary Actuator, On/Off, Floating point, AC 24...240 V / DC 24...125 V, 90 Nm, Running Time (Motor) 35 s

Service

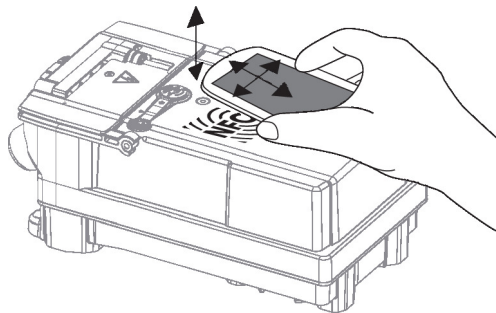
NFC connection Belimo devices marked with the NFC logo can be operated with Belimo Assistant 2.

Requirement:

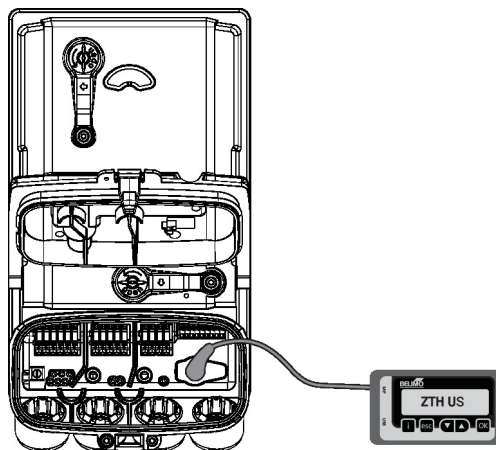
- NFC- or Bluetooth-capable smartphone
- Belimo Assistant 2 (Google Play and Apple AppStore)

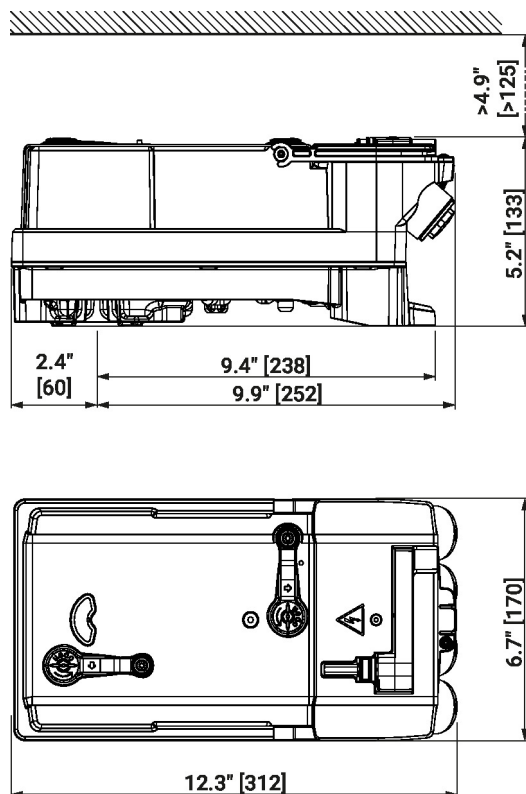
Align NFC-capable smartphone on the device so that both NFC antennas are superposed.

Connect Bluetooth-enabled smartphone via the Bluetooth-to-NFC converter ZIP-BT-NFC to the device. Technical data and operating instructions are shown in the ZIP-BT-NFC data sheet.



Tool connection The Belimo One Tool can configure the actuator via the service socket.



Dimensions

Further documentation

- The complete product range for water applications
- Data sheets for butterfly valves
- Installation instructions for actuators and/or butterfly valves
- General notes for project planning
- Quick Guide – Belimo Assistant 2