Butterfly Valve with Lug types

- Disc 304 stainless steel
- Bubble tight shut-off
- Resilient seat
- Valve face-to-face dimensions comply with API 609 & MSS-SP-67
- Completely assembled and tested, ready for installation





Type overview		
71		
Туре		DN
F6100HD		100
Technical data		
	W.L	48.54.003
Functional data		4" [100]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	-22250°F [-30120°C]
	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP
	Close-off pressure Δps	200 psi
	Flow characteristic	modified equal percentage
	Leakage rate	0% leakage, leakage rate A
	Servicing	maintenance-free
	Flow Pattern	2-way
	Controllable flow range	90° rotation
	Cv	600
	Maximum Velocity	12 FPS
	Lug threads	5/8-11 UNC
Materials	Valve body	Ductile cast iron ASTM A536
	Body finish	epoxy powder coating (blue RAL 5002)
	Stem	416 stainless steel
	Stem seal	EPDM (lubricated)
	Seat	EPDM
	Pipe connection	for use with ANSI class 125/150 flanges
	Bearing	RPTFE
	Disc	304 stainless steel
	Gear operator materials	Gears - hardened steel
	Gear operator materials	Gears - Hardened Steel
Suitable actuators	Non-Spring	(2*GMB(X))

Electrical fail-safe

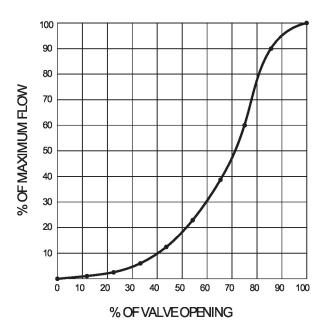
DRB(X) PRB(X)

PKRB(X)



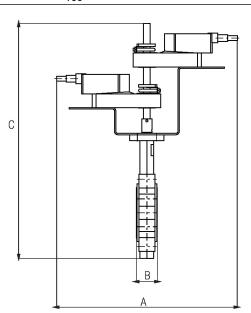
Product features

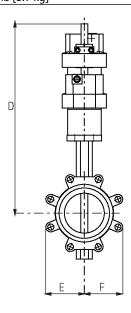
Flow/Mounting details



Dimensions

Туре	DN	Weight	
F6100HD	100	13 lb [5.7 kg]	

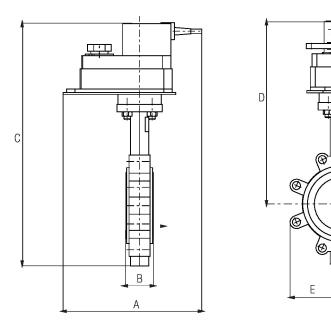




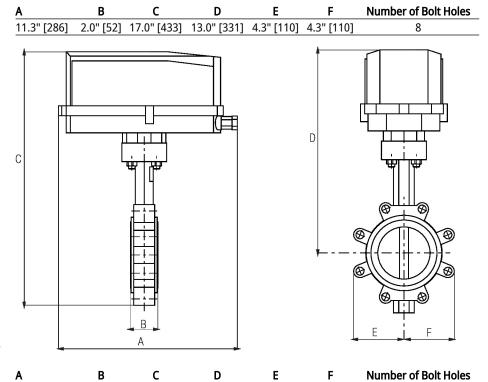
Valve with 2*GK/2*GM Actuator

Α	В	C	D	E	F	Number of Bolt Holes
17.9" [454]	2.0" [52]	22.8" [578]	18.5" [470]	3.9" [100]	3.9" [100]	8

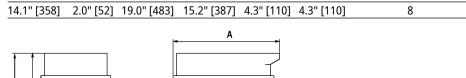


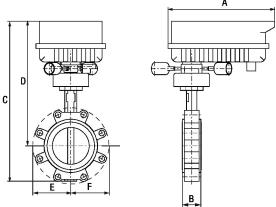


Valve with DK/DR Actuator



Valve with DKR..N4, DR..N4 Actuator

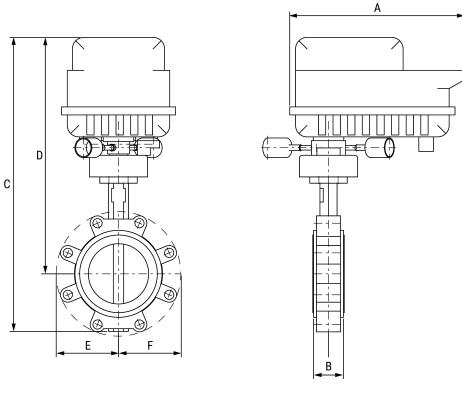




Valve with PRB(X) Actuator

Α	В	C	D	E	F	Number of Bolt Holes
12.0" [304]	2.0" [52]	17.9" [454]	13.9" [354]	4.3" [110]	4.3" [110]	8





Valve with PKR Actuator

Α	В	C	D	E	F	Number of Bolt Holes
12.0" [304]	2.0" [52]	20.0" [509]	16.2" [411]	4.3" [110]	4.3" [110]	8







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Electrical data	Nominal voltage	AC/DC 24 V		
	Nominal voltage frequency	50/60 Hz		
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V		
	Power consumption in operation	12 W		
	Power consumption in rest position	3 W		
	Transformer sizing	21 VA		
	Electrical Connection	Terminal blocks		
	Overload Protection	electronic thoughout 090° rotation		
Functional data	Torque motor	90 Nm		
	Operating range Y	210 V		
	Operating range Y note	420 mA w/ ZG-R01 (500 Ω, 1/4 W resistor)		
	Input impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for On/Off		
	Operating range Y variable	Start point 0.530 V End point 2.532 V		
	Operating modes optional	variable (VDC, PWM, on/off, floating point)		
	Position feedback U	210 V		
	Position feedback U note	Max. 0.5 mA		
	Position feedback U variable	VDC variable		
	Direction of motion motor	selectable with switch 0/1		
	Direction of motion fail-safe	reversible with switch		
	Manual override	external push button		
	Running Time (Motor)	150 s / 90°		
	Running time motor variable	90150 s		
	Running time fail-safe	<35 s		
	Noise level, motor	45 dB(A)		
	Noise level, fail-safe	50 dB(A)		
	Position indication	Mechanical, pluggable		
Safety data	Power source UL	Class 2 Supply		
	Degree of protection IEC/EN	IP54		
	Degree of protection NEMA/UL	NEMA 2		
	Enclosure	UL Enclosure Type 2		
	Quality Standard	ISO 9001		
	UL 2043 Compliant	Suitable for use in air plenums per Section 300.22(C) of the NEC and Section 602 of the IMC		
	Ambient humidity	Max. 95% RH, non-condensing		
	Ambient temperature	-22122°F [-3050°C]		
	Storage temperature	-40176°F [-4080°C]		
	Servicing	maintenance-free		



Technical data sheet DKRX24-MFT-T

Weight Weight		8.3 lb [3.8 kg]		
Materials	Housing material	Die cast aluminium and plastic casing		

Accessories

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
Electrical accessories	Description	Туре
	Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US
Mechanical accessories	Description	Туре
	Terminal-strip cover for NEMA 2 rating (-T models).	ZS-T
Tools	Description	Туре
	Connecting cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
	Service tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

Electrical installation

INSTALLATION NOTES

A Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

6 Only connect common to negative (-) leg of control circuits.

 Λ A 500 Ω resistor (ZG-R01) converts the 4...20 mA control signal to 2...10 V.

For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.

🔼 IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

Actuators are provided with a numbered screw terminal strip instead of a cable.

Meets cULus requirements without the need of an electrical ground connection.

Warning! Live electrical components!

During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

Wiring diagrams

