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			
Гуре			DN
6100HD			100
echnical data			
	Functional data	Valve size [mm]	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
	Suitable actuators	Non-Spring	(2*GMB(X))

Electrical fail-safe

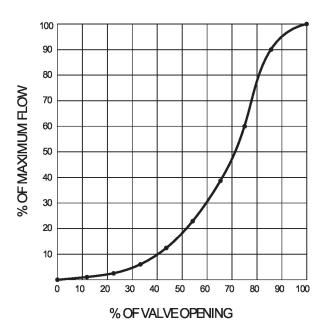
DRB(X) PRB(X)

PKRB(X)



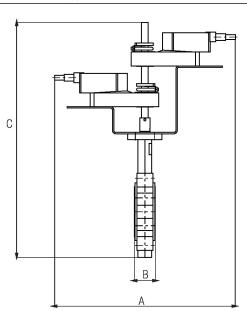
Product features

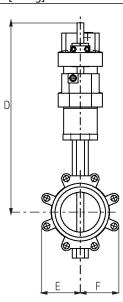
Flow/Mounting details



Dimensions

Туре	DN	Weight	
F6100HD	100	13 lb [5.7 ka]	

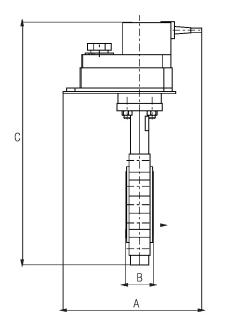


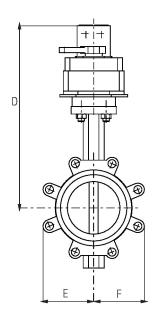


Valve with 2*GK/2*GM Actuator

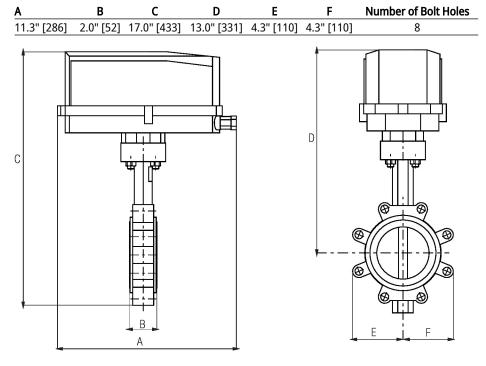
Α	В	C	D	E	F	Number of Bolt Holes
17.9" [454]	2.0" [52]	22.8" [578]	18.5" [470]	3.9" [100]	3.9" [100]	8



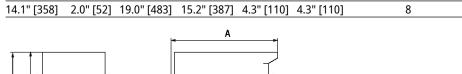




Valve with DK/DR Actuator

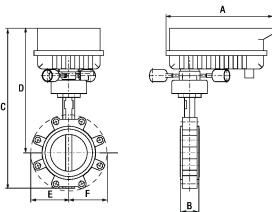


Valve with DKR..N4, DR..N4 Actuator



Ε

D



C

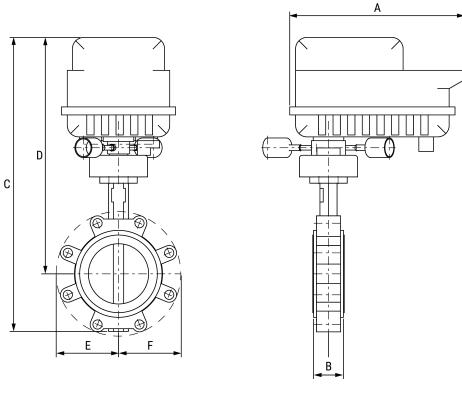
В

Valve with PRB(X) Actuator

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

Number of Bolt Holes





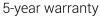
Valve with PKR Actuator

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

On/Off, Floating Point, Electrical Fail-Safe, 24 V









Technical data

Nominal voltage	AC 24 V
Nominal voltage frequency	50/60 Hz
Nominal voltage range	AC 19.228.8 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
Torque motor	90 Nm
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	90 or 150 s
Running time fail-safe	<35 s
Noise level, motor	45 dB(A)
Noise level, fail-safe	50 dB(A)
Position indication	Mechanically, integrated, two-section
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
Weight	3.2 lb [1.5 kg]
	Nominal voltage frequency Nominal voltage range Power consumption in operation Power consumption in rest position Transformer sizing Electrical Connection Overload Protection Torque motor Direction of motion motor Direction of motion fail-safe Manual override Running Time (Motor) Running time motor variable Running time fail-safe Noise level, motor Noise level, fail-safe Position indication Power source UL Degree of protection IEC/EN Degree of protection NEMA/UL Enclosure Quality Standard UL 2043 Compliant Ambient humidity Ambient temperature Storage temperature Servicing

Accessories

Mechanical accessories	Description	Туре
	Terminal-strip cover for NEMA 2 rating (-T models)	7S-T



Electrical installation

X INSTALLATION NOTES

A Provide overload protection and disconnect as required.

A 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.

Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.

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.

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

On/Off

