

## **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			
уре			DN
5100HD			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 rateA
		Pipe connection	Flange for use with ASME/ANSI class 125/150
			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
		Bearing	RPTFE
		Disc	304 stainless steel
	Suitable actuators	Non Fail-Safe	2*GMB(X) DRB(X) PRB(X)

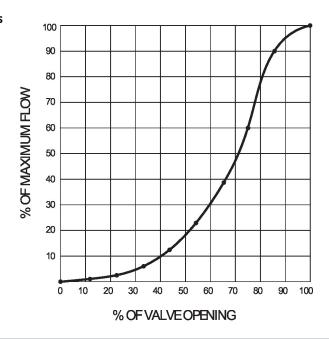
PKRB(X)

Electrical fail-safe



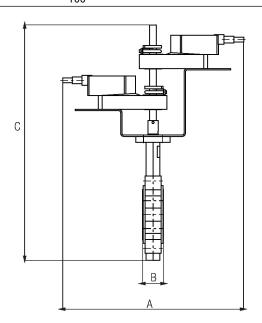
# **Product features**

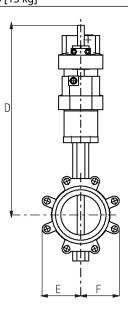
# Flow/Mounting details



# **Dimensions**

Туре	DN	Weight	
E6100HD	100	28 lh [13 ka]	

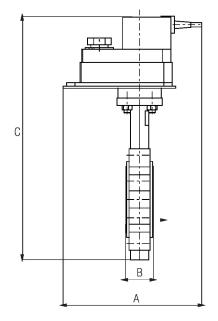


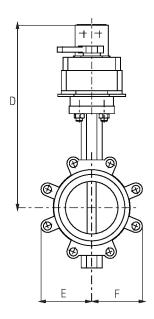


Valve with 2\*GK/2\*GM Actuator

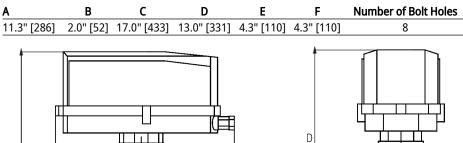
Α	В	С	D	Е	F	Number of Bolt Holes
17.9" [454]	2.0" [52]	22.8" [578]	18.5" [470]	3.9" [100]	3.9" [100]	8

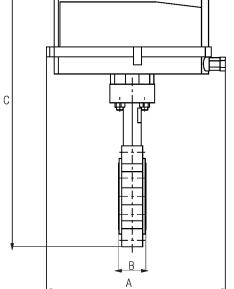


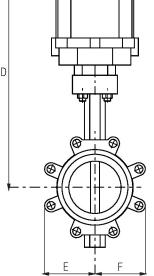




Valve with DK/DR Actuator





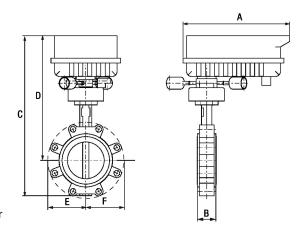


Valve with DKR..N4, DR..N4 Actuator

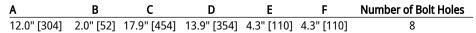
Α	В	С	D	E	F	Number of Bolt Holes
14.1" [358]	2.0" [52]	19.0" [483]	15.2" [387]	4.3" [110]	4.3" [110]	8

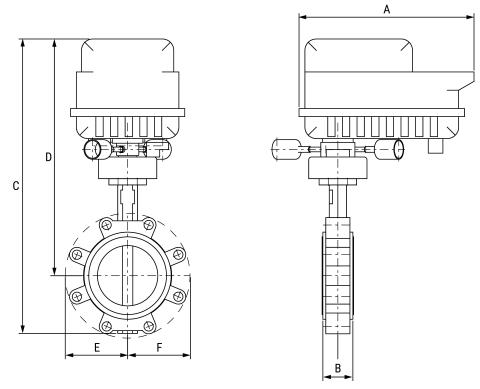


# **Dimensions**



Valve with PRB(X) Actuator





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

# Technical data sheet

**DRCX24-3-T N4** 







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100	nnica	l data
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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	36 VA		
	Electrical Connection	Screw terminal (for 22 to 12 AWG wire)		
	Overload Protection	electronic thoughout 090° rotation		
Functional data	Direction of motion motor	selectable with switch 0/1		
	Manual override	under cover		
	Running Time (Motor)	35 s / 90°		
	Running time motor note	constant, independent of load		
	Noise level, motor	45 dB(A)		
	Position indication	Mechanical, 520 mm stroke		
Safety data	Power source UL	Class 2 Supply		
	Degree of protection IEC/EN	IP66/67		
	Degree of protection NEMA/UL	NEMA 4X		
	Enclosure	UL Enclosure Type 4X		
	Quality Standard	ISO 9001		
	Ambient humidity	Max. 100% RH		
	Ambient temperature	-22122°F [-3050°C]		
	Ambient temperature note	-4050°C for actuator with integrated heating		
	Storage temperature	-40176°F [-4080°C]		
	Servicing	maintenance-free		
Weight	Weight	10 lb [4.6 kg]		
Materials	Housing material	Die cast aluminium and plastic casing		

Footnotes Control Signal must be specified at time of order. Control cannot be changed via field wiring.



#### **Accessories**

Electrical accessories	Description	Туре	
	Battery backup system, for non-spring return models	NSV24 US	
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT	
	Auxiliary switch 1x SPDT add-on	S1A	
	Auxiliary switch 2x SPDT add-on	S2A	
	Feedback potentiometer 140 Ω add-on, grey	P140A GR	
	Feedback potentiometer 5 kΩ add-on, grey	P5000A GR	
	Feedback potentiometer 1 kΩ add-on, grey	P1000A GR	
	Feedback potentiometer 2.8 kΩ add-on, grey	P2800A GR	
	Feedback potentiometer 500 Ω add-on, grey	P500A GR	
	Feedback potentiometer 10 kΩ add-on, grey	P10000A GR	
Factory add-on option only	Description	Туре	
	Heater, with adjustable thermostat	ACT_PACK_H	

## **Electrical installation**

# **X** INSTALLATION NOTES

Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 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.

# Marning! 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

