

F6150HDU, 6", 2-Way Butterfly Valve

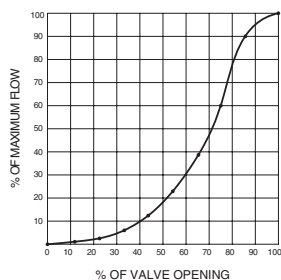
Resilient Seat, 304 Stainless Steel Disc



Technical Data

Media	chilled, hot water, up to 60% glycol
Flow characteristic	modified equal percentage
Controllable flow range	90° rotation
Valve Size	6 " [150]
Type of End Fitting	for use with ANSI class 125/150 flanges
Housing	ductile iron ASTM A536
Surface treatment	epoxy powder coated
Stem seal	EPDM (lubricated)
Seat	EPDM
Stem	416 stainless steel
Bearing	RPTFE
Disc	304 stainless steel
Body Pressure Rating	232 psi CWP
ANSI Class	Consistent with 125
Number of Bolt Holes	8
Lug threads	3/4-10 UNC
Close-Off Pressure	50 psi
Rangeability Sv	10:1 (for 30° to 70° range)
Maximum Velocity	12 FPS
Cv	1579
Weight	19 lb [8.6 kg]
Leakage rate	0%
Maintenance	maintenance free

Flow Pattern



Application

Valve is designed for use in ANSI flanged piping systems to meet the needs of bi-directional high flow HVAC hydronic applications with 0% leakage. Typical applications include cooling tower bypass, primary flow change-over systems, and large air handler coil control. Valve face-to-face dimensions comply with API 609 & MSS-SP-67, Completely assembled and tested, Ready for installation.

Jobsite Note

Valve assembly should be stored in a weather protected area prior to installation. Reference the butterfly valve installation instruction for additional information.

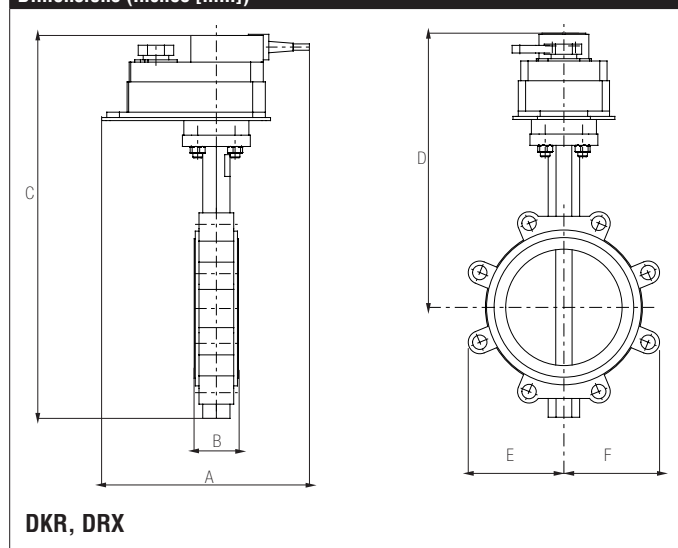
Flow/Cv

Cv 10°	Cv 20°	Cv 30°	Cv 40°	Cv 50°	Cv 60°	Cv 70°	Cv 80°	Cv 90°
0.8	45	95	205	366	605	958	1437	1579

Suitable Actuators

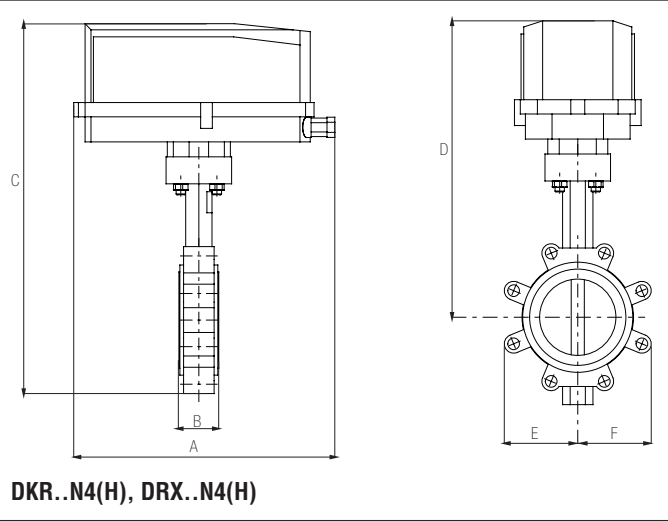
	Non-Spring
F6150HDU	DRB(X)

Dimensions (Inches [mm])



A	B	C	D	E	F
8.5" [216]	2.21" [56.1]	19.31" [490]	14.30" [363]	5" [127]	

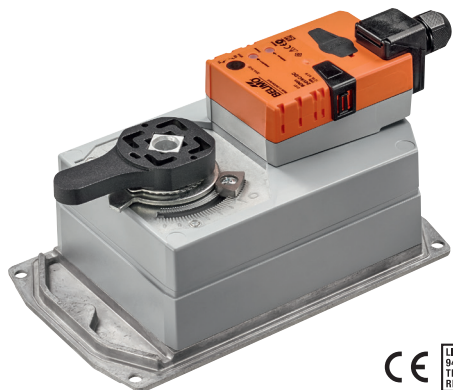
Dimensions (Inches [mm])



A	B	C	D	E	F
14.1" [358]	2.21" [56.1]	21.38" [544]	16.07" [408.2]	5" [127]	

DRCX24-3-T

On/Off or Floating Point, Non-Spring Return, 24 V










Technical Data	
Power Supply	24 VAC, $\pm 20\%$, 50/60 Hz, 24 VDC, $\pm 10\%$
Power consumption in operation	12 W
Power consumption in rest position	3 W
Transformer sizing	21 VA (class 2 power source)
Electrical Connection	screw terminal (for 22 to 12 AWG wire)
Overload Protection	electronic throughout 0° to 90° rotation
Input Impedance	100 Ω
direction of rotation motor	reversible with built-in switch
Position indication	integrated into handle
Manual override	external push button
Running time motor	35 sec, constant, independent of load
Ambient humidity	5 to 95% RH non condensing (EN 60730-1)
Non-operating temperature	$-40 \dots 176^\circ \text{F}$ [$-40 \dots 80^\circ \text{C}$]
Degree of Protection	IP54, NEMA 1, UL Enclosure Type 1
Housing material	UL94-5VA
Noise level, motor	$< 45 \text{ dB (A)}$
Maintenance	maintenance free
Quality Standard	ISO 9001
Weight	{733}

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

Wiring Diagrams

INSTALLATION NOTES

-  Provide overload protection and disconnect as required.
-  Actuators may also be powered by 24 VDC.
-  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.

