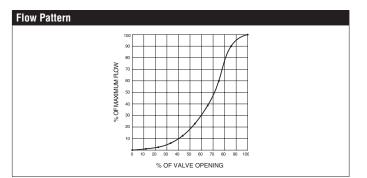
# F6150HDU, 6", 2-Way Butterfly Valve Resilient Seat, 304 Stainless Steel Disc





WARRANTY

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



## Application

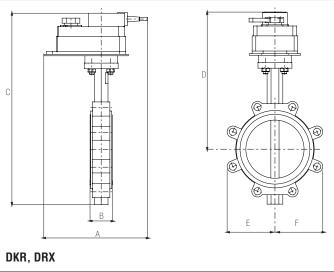
Valve is designed for use in ANSI flanged piping systems to meet the needs of bi-directional high flow HVAC hydronic applications with 0% leakage. Typical applications include cooling tower bypass, primary flow change-over systems, and large air handler coil control. Valve face-to-face dimensions comply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

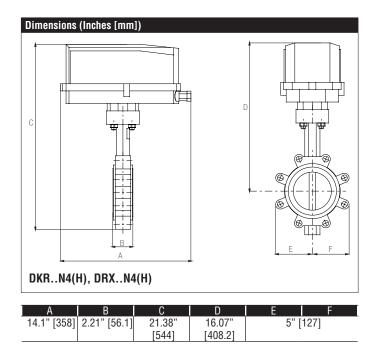
Flow/C		0	0 409	0 500	0	0700	0 000	000
<u>UV 10°</u>	UV 20°	UV 30°	Cv 40°	UV 50°	<b>UV 60°</b>	UV 70°	UV 80°	Cv 90°
0.8	45	95	205	366	605	958	1437	1579
			Suita	ble Actu	ators			
			Suita		lators 1-Spring			

## Dimensions (Inches [mm])



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









Power Supply 24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%   Power Consumption Running 12 W   Power Consumption Holding 3 W   Transformer Sizing 21 VA (class 2 power source)   Electrical Connection screw terminal (for 22 to 12 AWG wire)   Overload Protection electronic thoughout 0° to 90° rotation   Operating Range Y 2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 CL)   1/4 W resistor), variable (VDC, floating point)	
Power Consumption Holding 3 W   Transformer Sizing 21 VA (class 2 power source)   Electrical Connection screw terminal (for 22 to 12 AWG wire)   Overload Protection electronic thoughout 0° to 90° rotation   Operating Range Y 2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 CC)	
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on/off)	ıt,
$ \begin{array}{c} \mbox{Input Impedance} & 100 \mbox{ k}  \Omega \mbox{ for } 2 \mbox{ to } 10 \mbox{ VDC } (0.1 \mbox{ mA}), 500 \ \Omega \mbox{ to } 20 \mbox{ mA}, 1500 \ \Omega \mbox{ for } 0n/0 \mbox{ ff} \end{array} $	or 4
Feedback Output U 2 to 10 VDC, 0.5 mA max, VDC variable	
Direction of Rotation (Motor) reversible with built-in switch	
Position Indication integrated into handle	
Manual Override external push button	
Running Time (Motor) default 150 sec, variable 90150 sec	
Ambient Humidity 5 to 95% RH non condensing (EN 60730-1	)
Storage Temperature Range -40°F to 176°F [-40°C to 80°C]	
Housing NEMA 2, IP54, UL Enclosure Type 2	
Housing Material UL94-5VA	
Noise Level (Motor) <45 dB (A)	
Servicing maintenance free	
Quality Standard ISO 9001	
Degree of Protection IEC/EN IP54	



#### Wiring Diagrams

# 🔀 INSTALLATION NOTES

Provide overload protection and disconnect as required.

 $\bigwedge$  Actuators may also be powered by 24 VDC.

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

A 500  $\Omega$  resistor (ZG-R01) converts the 4 to 20 mA control signal to 2 to 10 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.

12

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.

