Date created, 08/31/2018 - Subject to change. © Belimo Aircontrols (USA), Inc.

F665HD, 2.5", 2-Way Butterfly Valve Resilient Seat, 304 Stainless Steel Disc

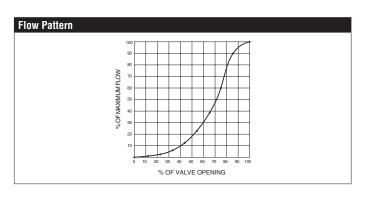






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Technical Data	
Service	chilled, hot water, up to 60% glycol
Flow Characteristic	modified equal percentage
Controllable Flow Range	90° rotation
Valve Size	2.5 " [65]
End Fitting	for use with ANSI class 125/150 flanges
Body	ductile iron ASTM A536
Body Finish	epoxy powder coated
Stem Packing	EPDM (lubricated)
Seat	EPDM
Shaft	416 stainless steel
Bushings	RPTFE
Disc	304 stainless steel
Body Pressure Rating	ANSI Class 125, standard class B
ANSI Class	125
Number of Bolt Holes	4
Lug Threads	5/8-11 UNC
Media Temperature	-22°F to 250°F [-30°C to 120°C]
Range (Water) Close-Off Pressure	200 psi
Rangeability	10:1 (for 30° to 70° range)
	12 FPS
Maximum Velocity	
Cv	196
Weight	6.2 lb [2.8 kg]
Leakage	0%
Servicing	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.

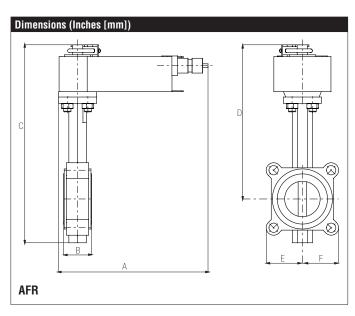
Jobsite Note

F665HD

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

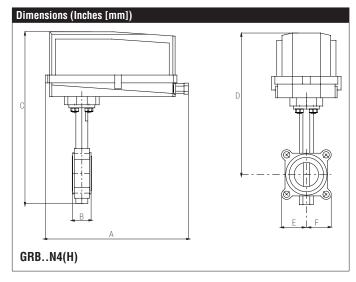
Flow/Cv								
Cv 10°	Cv 20°	Cv 30°	Cv 40°	Cv 50°	Cv 60°	Cv 70°	Cv 80°	Cv 90°
0.1	6	12	25	45	75	119	178	196

Suitable Actuators				
Non-Spring	Spring			
ARB(X), GRB(X)	AFRB(X)			

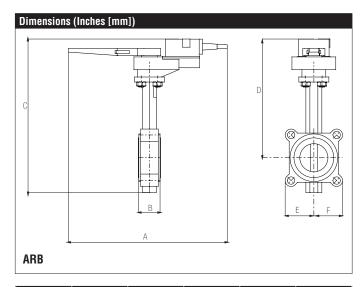


А	В	С	D	Е	F
10.6" [270]	1.81" [46]	13.47"	10.38"	3.34	" [85]
		[342]	[264]		





Α	В	С	D	Е	F
14.1" [358]	1.81" [46]	17.03"	14.00"	3.34	" [85]
		[433]	[356]		



Α	В	C	D	E	F
12.7" [323]	1.81" [46]	13.1" [333]		3.34	" [85]
			[256]		

ARX24-3 On/Off, Floating Point, Non-Spring Return, 24 V





24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10%
2.5 W
0.5 W
5.5 VA (class 2 power source)
18 GA plenum rated cable with 1/2" conduit
connector protected NEMA 2 (IP54) 3ft
[1m] 10ft [3m] and 16ft [5m]
electronic thoughout 0° to 90° rotation
600 Ω
90°
reversible with built-in switch
integrated into handle
external push button
default 90 sec, variable 90 or 150 sec
5 to 95% RH non-condensing
-22122 °F [-3050 °C]
-40176 °F [-4080 °C]
IP54, NEMA 2
cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and
2006/95/EC
<45 dB (A)
maintenance free
ISO 9001
2.2 lbs (1.00 kg)

 \dagger Rated Impulse Voltage 800V, Type action 1.B , Control Pollution Degree 3.



Wiring Diagrams



X INSTALLATION NOTES



Provide overload protection and disconnect as required.



Actuators may be connected in parallel. Power consumption and input impedance must be observed.



Actuators may also be powered by 24 VDC.



Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.



Actuators with plenum cable do not have numbers; use color codes instead. 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.

