

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		
Туре		DN
F680HDU		80
Technical data		
Functional dat	a Valve size [mm]	3" [80]
	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 ∆ps	50 psi
	Flow characteristic	modified equal percentage
	Leakage rate	0%
	Pipe connection	Flange
		for use with ASME/ANSI class 125/150
	Servicing	maintenance-free
	Flow Pattern	2-way
	Controllable flow range	90° rotation
	Cv	302
	Maximum Velocity	12 FPS
	Lug threads	5/8-11 UNC
Material	s 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

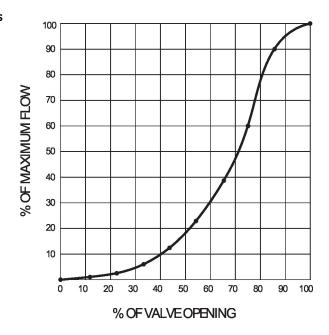
Non Fail-Safe

ARB(X)



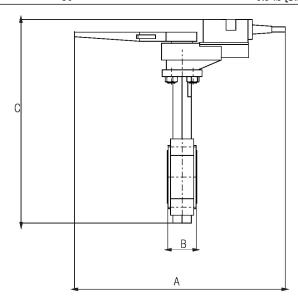
Product features

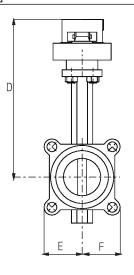
Flow/Mounting details



Dimensions





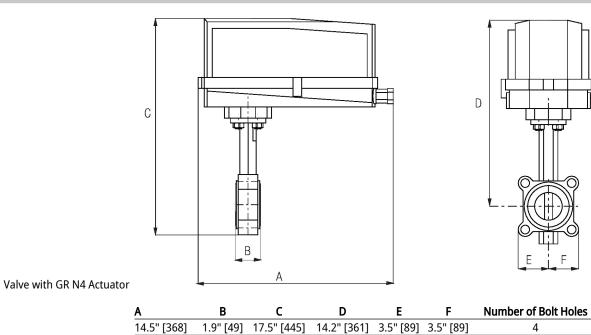


Valve with ARB/ARX Actuator

Α	В	C	D	E	F	Number of Bolt Holes
14.5" [368]	1.9" [49]	13.9" [354]	10.4" [264]	3.5" [89]	3.5" [89]	4



Dimensions

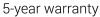




On/Off, Floating point, Non fail-safe, 24 V









Nominal voltage	AC/DC 24 V
	50/60 Hz
	AC 19.228.8 V / DC 21.628.8 V
	2.5 W
· · · · · · · · · · · · · · · · · · ·	0.5 W
· · · · · · · · · · · · · · · · · · ·	5.5 VA
Electrical Connection	18 GA plenum cable, 1 m, 3 m, or 5 m with 1/2" NPT conduit connector, degree of protection NEMA 2 / IP54
Overload Protection	electronic thoughout 090° rotation
Direction of motion motor	selectable with switch 0/1
Manual override	external push button
Angle of rotation	90°
Angle of rotation note	adjustable with mechanical stop
Running Time (Motor)	90 s / 90°
Running time motor variable	90 or 150 s
Noise level, motor	45 dB(A)
Position indication	Mechanical, pluggable
Power source UL	Class 2 Supply
Degree of protection IEC/EN	IP54
Degree of protection NEMA/UL	NEMA 2
Enclosure	UL Enclosure Type 2
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02 CE acc. to 2014/30/EU and 2014/35/EU
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
Storage temperature	-40176°F [-4080°C]
Servicing	maintenance-free
	2 0 10 00 10 1
Weight	2.0 lb [0.90 kg]
	Overload Protection Direction of motion motor Manual override Angle of rotation Angle of rotation note Running Time (Motor) Running time motor variable Noise level, motor Position indication Power source UL Degree of protection IEC/EN Degree of protection NEMA/UL Enclosure Agency Listing Quality Standard UL 2043 Compliant Ambient humidity Ambient temperature Storage temperature



Technical data

Footnotes †Rated Impulse Voltage 800V, Type action 1.B, Control Pollution Degree 3.

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

Electrical installation

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 DC 24 V.

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.

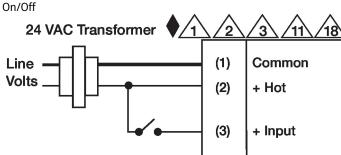
Actuators with plenum cable do not have numbers; use color codes instead.

Meets cULus requirements without the need of an electrical ground connection.

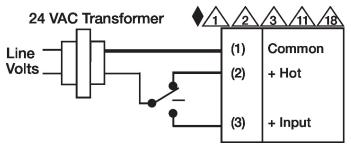
Warning! Live electrical components!

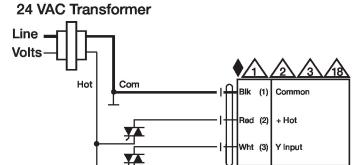
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.





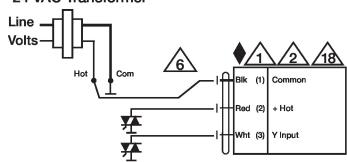






Floating Point - Triac Sink

24 VAC Transformer





Dimensions

