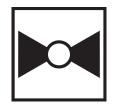




5-year warranty



Technical data

E.	nction	A 4-	+-
HI	Inction	ai na	ara

Valve Size	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		
Servicing	maintenance-free		
Rangeability Sv	10:1 (for 3070° range)		
Flow Pattern	2-way		
Leakage rate	0%		
Controllable flow range	90° rotation		
Cv	302		
ANSI Class	Consistent with 125		
ody pressure rating note 232 psi CWP			
Maximum Velocity	12 FPS		
Lug threads	5/8-11 UNC		
Makar Landa	Destile and in ACTM AFOC		

Materials

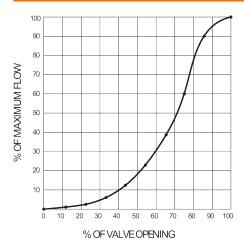
Valve body	Ductile cast iron ASTM A536		
valve body	Ductile cast II off ASTIW ASSO		
Body finish	epoxy powder coating (blue RAL 5002)		
Stem seal	EPDM (lubricated)		
Seat	EPDM		
Pipe connection	for use with ANSI class 125/150 flanges		
Bearing	RPTFE		
Disc	304 stainless steel		
Gear operator materials	Gears - hardened steel		
Non-Spring	ARB(X)		

Suitable actuators

Product features

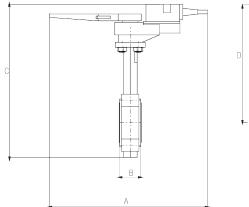


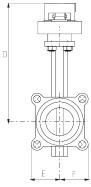
Flow/Mounting details



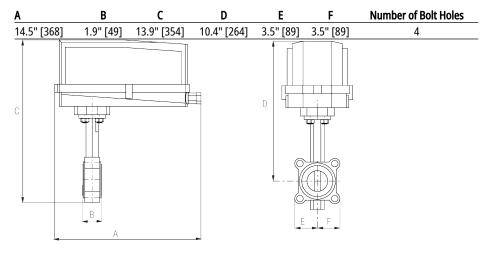
Dimensions

Dimensional drawings





Valve with ARB/ARX Actuator



Valve with GR N4 Actuator

Α	В	C	D	E	F	Number of Bolt Holes
14.5" [368]	1.9" [49]	17.5" [445]	14.2" [361]	3.5" [89]	3.5" [89]	4



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







echnical data		
Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	2.5 W
	Power consumption in rest position	0.5 W
	Transformer sizing	5.5 VA (class 2 power source)
	Electrical Connection	18 GA plenum cable with 1/2" conduit connector, degree of protection NEMA 2 / IP54, 3 ft [1 m] 10 ff [3 m] and 16ft [5 m]
	Overload Protection	electronic thoughout 090° rotation
Functional data	Input Impedance	600 Ω
	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)	default 90 s, variable 90 or 150 s
	Running time motor variable	90 or 150 s
	Noise level, motor	45 dB(A)
	Position indication	Mechanically, pluggable
Safety data	Degree of protection IEC/EN	IP54
	Degree of protection NEMA/UL	NEMA 2 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; Listed to UL 2043 - suitable for use in air plenums per Section 300.22(c) of the NEC and Section 602.2 of the IMC
	Quality Standard	ISO 9001
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Ambient humidity	max. 95% r.H., non-condensing
	Servicing	maintenance-free

Safety notes



Weight

Weight

- NEMA 4X, 316L stainless steel enclosure.
- Battery Back Up System for SY(7~10)-110
- ZS-300 without brackets.
- Terminal-strip cover for NEMA 2 rating (-T models).
- MFT95 resistor kit for 4 to 20 mA control applications.

2.2 lb [1.0 kg]

• Battery Back Up System for SY(10~12)-220P



Electrical installation

> INSTALLATION NOTES

1 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.

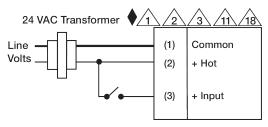
Actuators Hot wire must be connected to the control board common. Only connect common to neg. (-) leg of control circuits. Terminal models (-T) have no-feedback.

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

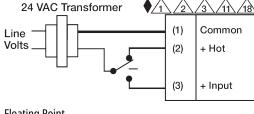
Meets cULus requirements without the need of an electrical ground connection.

Warning! Live Electrical Components!

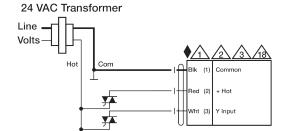
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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

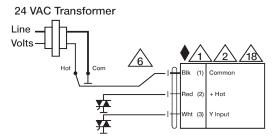


On/Off



Floating Point





Floating Point - Triac Sink

Dimensions

Dimensional drawings

