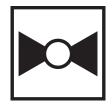






5-year warranty



Technical data

Eu	ıncti	anal	145	+-
	IMCTI	ona	ma	11.4

Valve Size	1.25" [32]
Fluid	chilled or hot water, up to 60% glycol
Fluid Temp Range (water)	0250°F [-18120°C]
Body Pressure Rating	400 psi
Close-off pressure Δps	200 psi
Flow characteristic	equal percentage
Servicing	maintenance-free
Flow Pattern	2-way
Leakage rate	0% for A – AB
Controllable flow range	75°
Cv	37
Body pressure rating note	400 psi
No Characterized Disc	TRUE
Cv Flow Rating	A-port: as stated in chart B-port: 70% of A – AB Cv
Valve body	Nickel-plated brass body
Stem seal	EPDM (lubricated)
Seat	PTFE
Pipe connection	NPT female ends
O-ring	EPDM (lubricated)
Ball	stainless steel
Non-Spring	ARB(X) NRQB(X)

Safety notes



Suitable actuators

Materials

 WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov

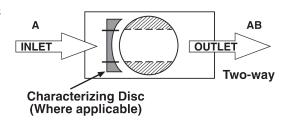
Product features

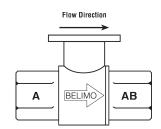
Application

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable flow.

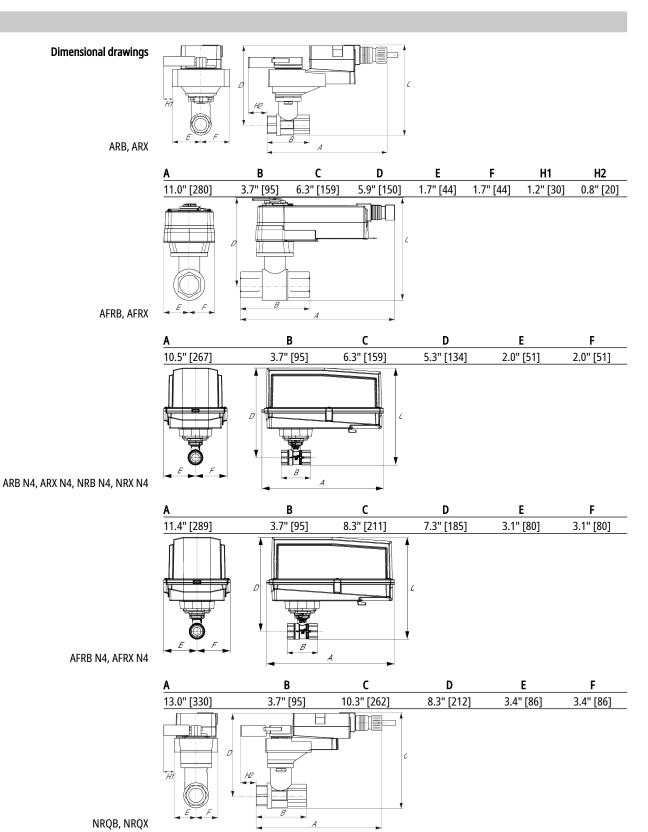


Flow/Mounting details



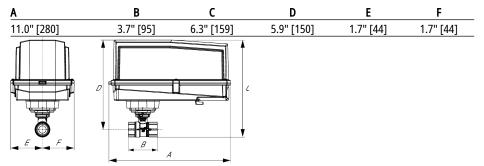


Dimensions

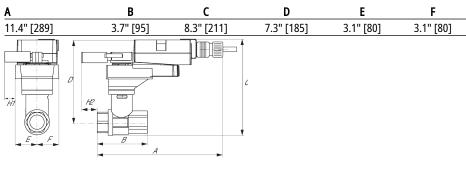




Technical data sheet B232



ARB N4, ARX N4, NRB N4, NRX N4



NRQB, NRQX

A	В	С	D	E	F
11.0" [280]	3.7" [95]	6.3" [159]	5.9" [150]	1.7" [44]	1.7" [44]









echnical data			
	Electrical data	Nominal voltage	AC/DC 24 V
		Nominal voltage frequency	50/60 Hz
		Power consumption in operation	3.5 W
		Power consumption in rest position	1.3 W
		Transformer sizing	6 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 ft [3 m] and 16ft [5 m]
		Overload Protection	electronic thoughout 090° rotation
	Functional data	Operating range Y	0135 Ω
		Operating range Y note	Honeywell Electronic Series 90, input 0135 Ω
		Input Impedance	100 kΩ
		Position feedback U	210 V
		Position feedback U note	Max. 0.5 mA
		Position feedback U variable	VDC variable
		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 150 s, variable 90150 s
		Running time motor variable	90150 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
	Weight	Weight	2.6 lb [1.2 kg]

Safety notes



Technical data sheet



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

Accessories

Gateways	Description	Туре
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to LonWorks	UK24LON
	Gateway MP to Modbus RTU	UK24MOD
Service tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
	Service Tool, with ZIP-USB function, for parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

Electrical installation

> INSTALLATION NOTES

1 Provide overload protection and disconnect as required.

Actuators may also be powered by 24 VDC.

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

22 Actuators and controller must have separate transformers.

 $\frac{1}{23}$ Consult controller instruction data for more detailed information.

A Resistor value depends on the type of controller and the number of actuators. No resistor is used for one actuator. Honeywell® resistor kits may also be used.

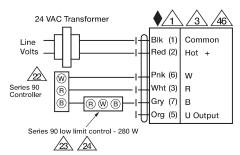
To reverse control rotation, use the reversing switch.

& Actuators may be controlled in parallel. Current draw and input impedance must be observed.

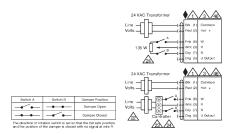
Meets cULus requirements without the need of an electrical ground connection.

Warning! Live Electrical Components!

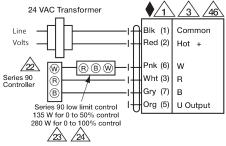
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow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



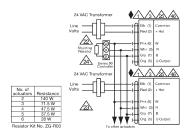
High Limit Control



Typical and Override Control

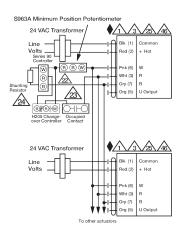


Low Limit Control

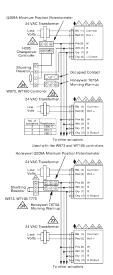


Multiple Actuators





Multiple Actuators with Minimum Position Potentiometer



Multiple Actuators Used with W973, W7100 and T775