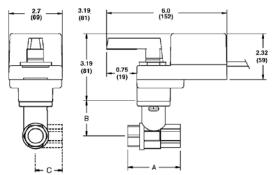


## **INSTRUCTION SHEET**

### THREE-WAY FLOATING ACTION VALVE WITH ACTUATOR

Specifications					
Service	chilled or hot water, 60% glycol				
Flow characteristic	"A" port equal percent				
	"B" port modified linear				
Action	Maximum 95° rotation				
Sizes	1", 1 ¼", 1 ½"				
Type of end fitting	female, NPT				
Materials:					
Body	forged brass, nickel plated				
Ball	stainless steel (standard)				
Stem	stainless steel (standard)				
Seals	fiberglass reinforced teflon® PTFE				
Characterizing disc	TEFZEL <sup>®</sup>				
Packing	2 EPDM O-rings, lubricated				
Pressure rating	600 psi (1" - 1 1/4") 400 psi (1-1/2")				
Media temp. range	0°F to 212°F (-18°C to 100°C)				
Close off pressure	200 psi				
Maximum differential	Full port: on/off 150 psi				
Maximum differential	Characterized "A" port:				
pressure	30 psi for quiet service				
	50 psi maximum				
Weight 1"	1.2 lbs				
1 1/4"	1.2 lbs				
1 1/2"	1.8 lbs				
	Actuator Technical Data				
Power supply	24 VAC± 20% 50/60 Hz				
Power consumption	2 W				
Transformer sizing	3.5 VA (class 2 power source)				
Electrical connection	3 ft, 18 GA plenum rated cable				
Overload protection	electronic throughout 0 to 95° rotation				
Angle of rotation	max 95° adjust with mechanical stops				



		Dimensions in inches		
Valve	Part #	Α	В	С
1"	A3131000	3.43	1.87	1.71
1 1/4"	A3131250	4.02	1.87	2.00
1 1/2"	A3131500	4.45	2.05	2.22



Three-Way Floating Action Valve with Actuator

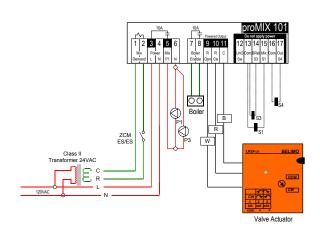
#### **INSTALLATION NOTES**

- Avoid installations where valve may be exposed to excessive moisture, corrosive fumes, vibration, high ambient temperatures, elements, or high traffic areas with potential for mechanical damage.
- Valve assembly location must be within ambient ratings of actuator. If temperature is below -22°F a heater is required.
- The valve assembly will require heat shielding, thermal isolation, or cooling if combined effect of medium and ambient temperatures –conduction, convection, and radiation — is above 122°F for prolonged time periods at the actuator.
- Strainers should be installed before valve.
- Visual access must be provided. Assembly must be accessible for routine scheduled service. Contractor should provide unions for removal from line and isolation valves.
- Ensure the actuator motor is set to the CW position. The actuator arm should be in the full closed position against the right hand stop.
- Do not force the actuator arm. Push the actuator motor manual release button while moving the arm.
- The actuator arm has a total travel of 95 degrees. It will take the actuator between 80 to 110 seconds to reset itself upon start-up.
- Sufficient upstream and downstream piping runs must be provided to ensure proper valve capacity and flow response. Five diameters in each direction are recommended.
- Normal thread engagement between male pipe thread and valve body should be observed. Pipe run that is in too far will damage the valve (11/16" of an inch is normal).

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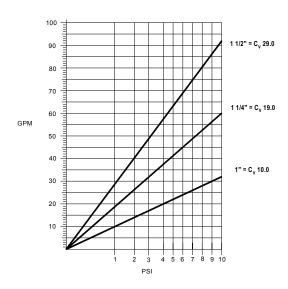


# **INSTRUCTION SHEET**

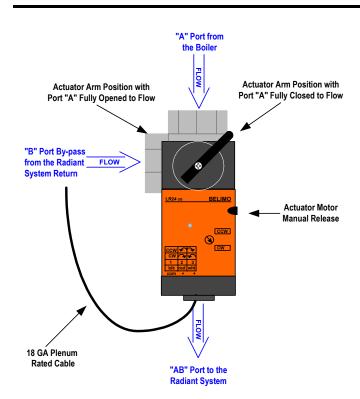


## Electrical Schematic for Wirsbo proMIX<sup>™</sup> 101

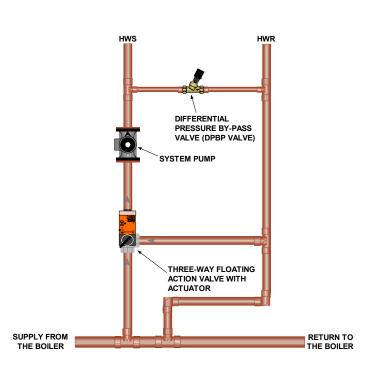
NOTE: Electrical schematic for SYSTEMpro 311 requires external low voltage source in order to operate the valve. Refer to the Wirsbo SYSTEMpro 311 manual for more information.



 ${f C_V}$  **Chart** (convert PSI to Feet of Head: PSI x 2.306)



**Actuator Body Detail** 



**Typical Piping Detail** 

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