

# Pressure Regulator 91500 Series



Self-Operating Design

Heavy Duty Die Cast Aluminum Housing

1/2" thru 4" Valve Sizes

91500 pictured

The Trerice Series 91500 Self-Operating Pressure Regulator is extensively used in canning, meat packing and other food processing industries to regulate pressure cookers, retorts and other devices. The 91500 requires that a user-supplied pressure sensing line be connected from the downstream controlled point to the regulator's actuator. Pressure in this line acts upon the bellows to develop the necessary thrust to stroke the valve. As the downstream pressure increases, the valve closes, thereby reducing the downstream pressure.

For optimal performance, the service conditions (medium, flow, temperature, inlet and outlet pressures) of the application must be considered when selecting a valve. Please refer to the Valve Selection Section of this catalog. Improper application may cause failure of the valve, resulting in possible personal injury or property damage.

## Specifications

<b>Model</b> 91500	<b>Setting Scale</b> Integral to housing	<b>Body Material</b> 1/2"-2": Bronze 2 1/2"-4": Iron	<b>Pressure &amp; Temperature Rating</b> 1/2"-2": 250 psi @ 410°F (210°C) 2 1/2"-4": 125 psi @ 350°F (175°C)
<b>Housing</b> Die cast aluminum, epoxy powder coated blue finish	<b>Adjustment Screw</b> Brass	<b>Trim Material</b> Stainless steel	<b>Approximate Shipping Weight</b> Actuator: 5.2 lbs [2.36 kg] Valve: see Valve Selection Table
<b>Bellows</b> High pressure brass, corrosion resistant finish	<b>Adjustment Screw Bushing</b> Lubricant impregnated sintered bronze	<b>Trim Style</b> Modified linear	
<b>Pressure Connection</b> 1/4 NPT female	<b>Range Adjustment Spring</b> Cadmium plated	<b>Connection</b> 1/2"-2": Threaded, malleable iron union ends 2 1/2"-4": Class 125 flanged	

## How To Order

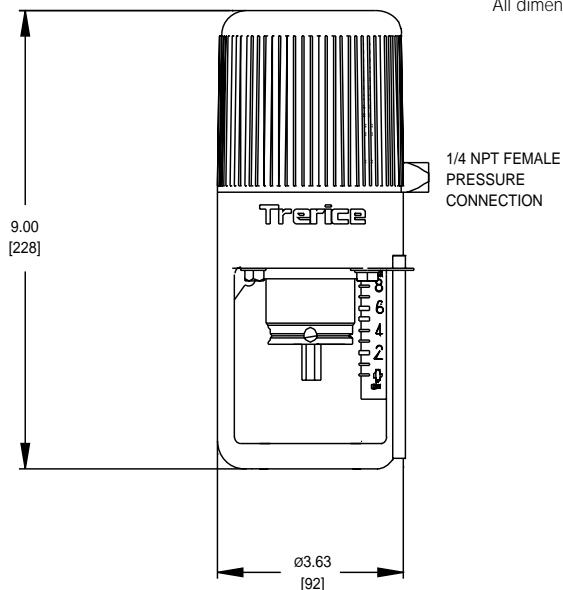
Sample Order Number: 91500SLO-A55  
91500 SLO A55

Model	Range	Valve
91500	<b>SLO</b> 10 to 35 psi (1/2" thru 2" valve only)	See Valve Selection (over)
	<b>SHI</b> 20 to 70 psi (1/2" thru 2" valve only)	Omit if Actuator Only
	<b>MLO</b> 25 to 40 psi (2 1/2", 3" valve only)	
	<b>MHI</b> 35 to 75 psi (2 1/2", 3" valve only)	
	<b>LLO</b> 3 to 20 psi (4" valve only)	

# Pressure Regulator 91500 Series

## Pressure Reducing Valve

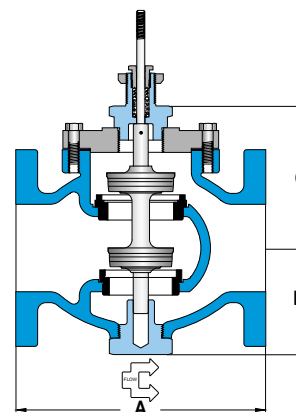
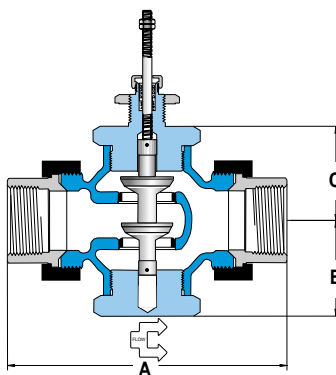
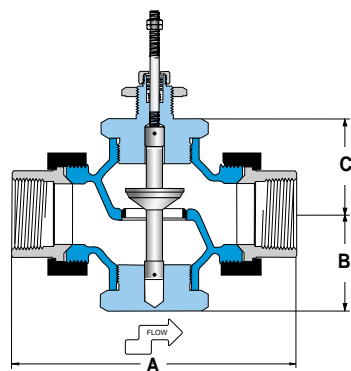
All dimensions are nominal. Dimensions in [ ] are in millimeters.



1/2" Valve

3/4" - 2" Valve

2 1/2" - 4" Valve



### Valve Selection

Valve Number	Connection	Size Nominal Port	Number of Seats	C <sub>v</sub>	Maximum Inlet (psig)	A	Dimensions B	C	Approximate Shipping Wt.
A14	1/2 NPT	1/2"	1	2.8	250	4.8 [122]	1.8 [46]	1.8 [46]	3.0 lbs [1.35 kg]
A21	3/4 NPT	3/4"	2	8	250	5.6 [142]	2.3 [58]	2.3 [58]	5.0 lbs [2.25 kg]
A29	1 NPT	1"	2	12	250	6.0 [152]	2.3 [58]	2.3 [58]	6.1 lbs [2.75 kg]
A39	1 1/4 NPT	1 1/4"	2	21	250	7.2 [183]	2.6 [66]	2.6 [66]	10.1 lbs [4.55 kg]
A50	1 1/2 NPT	1 1/2"	2	30	250	7.7 [196]	2.6 [66]	2.6 [66]	11.1 lbs [5.00 kg]
A61	2 NPT	2"	2	47	250	7.6 [218]	3.1 [79]	3.1 [79]	17.0 lbs [7.65 kg]
B73	2 1/2" Flanged	2 1/2"	2	69	125	7.8 [198]	4.8 [122]	5.4 [137]	45 lbs [20 kg]
B78	3" Flanged	3"	2	90	125	9.0 [229]	5.0 [127]	5.6 [142]	70 lbs [32 kg]
B83	4" Flanged	4"	2	196	40	11.4 [290]	6.3 [160]	6.5 [165]	100 lbs [45 kg]