

VAL Series Globe Valve Actuators

Spring Return • For use on 2-1/2" - 6" Globe Valves

Application

The VAL-SRS07 and VAL-SRS15P Spring Return Electro Hydraulic Actuators provide precise modulating control of Bray DG Series Globe Valves.

These actuators use electro hydraulic force to achieve superior close-off pressure ratings. The stroke of these actuators is up at the low input signal condition, and down in the high signal input condition.

A weather shield is available to offer a degree of protection against rain, sleet and damage from external ice formation.

Features and Benefits

- **High Output Force**

Provides high close-off pressure ratings

- **Direct Mount to Bray DG Series Globe Valves**

Eases installation and minimizes space requirements

- **Spring Return Operation**

Returns valve to the open position upon loss of power

- **User-Selectable Input Signals**

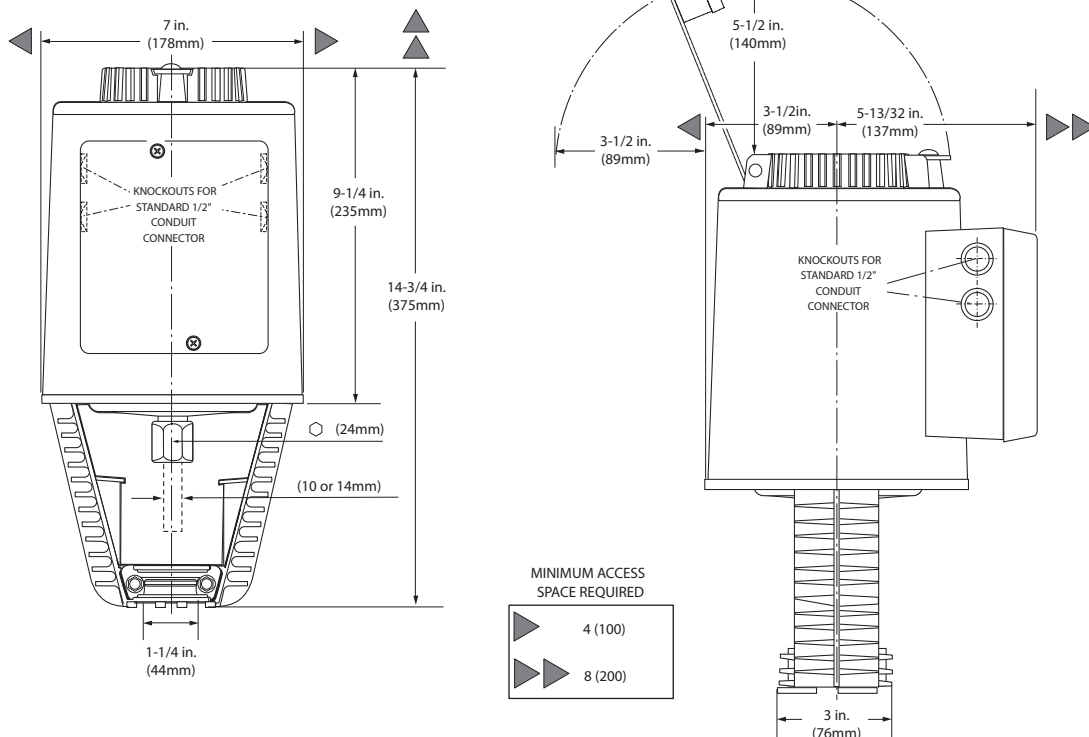
Accepts current or voltage inputs

- **Visual and Electronic Position Indication**

Provides position feedback and provides for remote monitoring



VAL Series - Dimensions



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VAL Series - Specifications

Technical Specifications - Actuator			
Model Number		VAL-SRS07P	VAL-SRS15P
		2-1/2" to 3" valves	4" to 6" valves
Power Requirements	24 VAC (±20%), 50/60 Hz	18 VA Nominal	28 VA Nominal
Control Input Signal	Input Y	0 to 10 VDC	
	Input R	4 to 20 mA	
Input Impedance	Current	100,000 Ω	
	Voltage	250 Ω	
Feedback Signal	Current	0 to 10 VDC	
	Voltage	4 to 20 mA	
Mechanical Output	Stem Up	640 lbs. (2800 N) (Spring return stroke)	
	Stem Down	1000 lbs. (4400 N) (Power stroke)	
Stroke Range		3/4" (20 mm)	1-1/2" (40 mm)
Nominal Stroke Timing	Power Stroke	120 seconds	
	Return Stroke	15 seconds	20 seconds
Ambient Operating Conditions	5 to 130°F (-15 to 55°C), 10 to 90% RH, non-condensing, 86°F (30°C) maximum dew point		
Enclosure Rating	NEMA 1, Weather shield available		
Shipping Weight		18.5 lb. (8.4 kg)	21.4 lb. (9.7 kg)
Agency Compliance	UL 873 Listed, C-UL C22.2 No. 24-93		
Warranty	5 Years limited from time of shipment.		

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the local Bray office. Bray Controls shall not be liable for damages resulting from misapplication or misuse of its products.

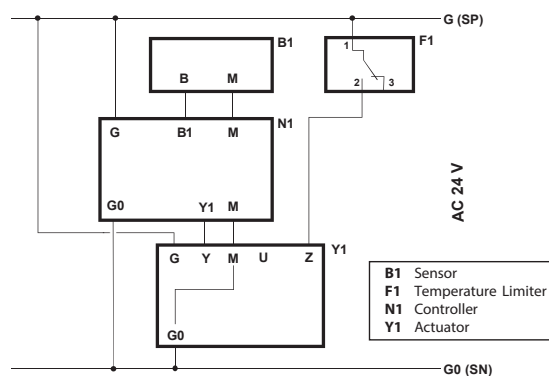
VAL Series - Wiring

Actuator	Power Consumption	Actuators per Class 2 Supply Circuit* (80% of transformer VA)
VAL-SRS07P	17 VA	4
VAL-SRS015P	28 VA	2

* Operating more actuators requires additional transformers or separate 100 VA power supplies.

Do not use autotransformers. Use earth ground isolating step-down Class 2 transformers.

Determine supply transformer rating by summing total VA of all actuators used. The maximum rating for Class 2 step-down transformer is 100 VA.



24 VAC Actuator - Connecting Terminals	
G	System potential (SP)
G0	System neutral (SN)
Y	Control input 0 to 10 Vdc or 4 to 20 mA (DIP switch selectable)
Z	Override control
M	Measuring neutral
U	Output for 0 to 10 Vdc or 4 to 20 mA measuring voltage. (see above)

Actuator Output Signal		
Actuator Input Signal	Receiving Impedance	
	Low (<500 Ohm)	High (>10 Ohm)
0 to 10 VDC	0 to 20 mA	0 to 10 VDC
4 to 20 mA	4 to 20 mA	2 to 10 VDC

The position output signal U will switch from 0 to 10 VDC to 4 to 20 mA when a 4 to 20 mA input signal is selected and used on the Y terminal.