

- Spring Return - VAL-SRS07P
- Spring Return - VAL-SRS15P

12/21/18

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.

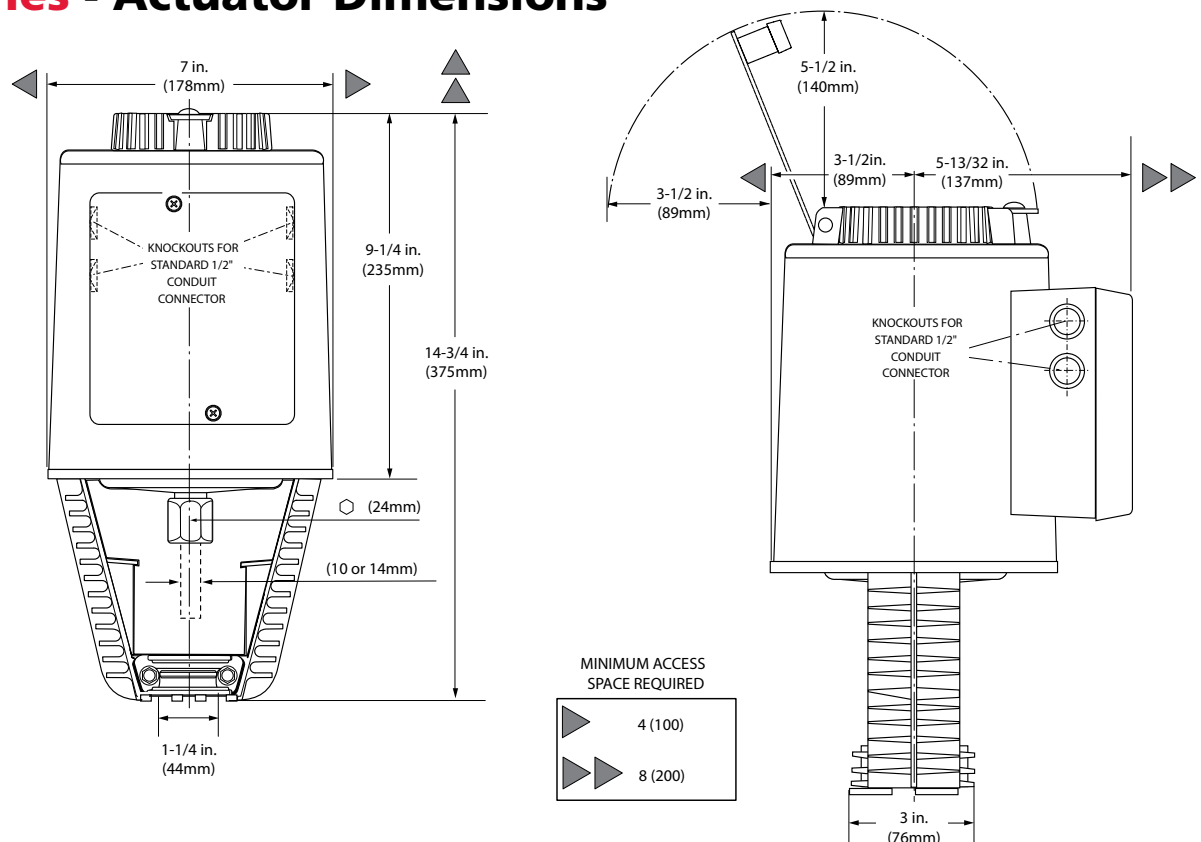
A weather shield is available to offer a degree of protection against rain, sleet and damage from external ice formation.



Features and Benefits - VAL Series Actuator

- 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 - Actuator Dimensions



VAL-SRS Series - Actuator Specifications

Technical Specifications		
Model Number	VAL-SRS07P	2-1/2" to 3" valves
	VAL-SRS15P	4" to 6" valves
Power Requirements	24 VAC ($\pm 20\%$), 50/60 Hz	
	VAL-SRS07P	18 VA Nominal
	VAL-SRS15P	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 - Load impedance >500 Ω
	Voltage	4 to 20 mA - Load impedance <500 Ω
Mechanical Output	Stem Up	610 lb. (2684 N) (Spring return stroke)
	Stem Down	1000 lb. (4400 N) (Power stroke)
Stroke Range	VAL-SRS07P	3/4" (20 mm)
	VAL-SRS15P	1-1/2" (40 mm)
Nominal Stroke Timing	Power Stroke	120 seconds
	Return Stroke	15 seconds for VAL-SRS07P 20 seconds for VAL-SRS15P
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 (interior only), Weather shield available	
Shipping Weight	VAL-SRS07P	18.5 lb. (8.4 kg)
	VAL-SRS15P	21.4 lb. (9.7 kg)
Agency Compliance	UL 873 Listed, C-UL C22.2 No. 24-93 CE Conformity as per the EMC directive 89/336/EEC Low voltage directive 78/23/EEC	
Conduit Opening	1/2-inch NPSM	

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.

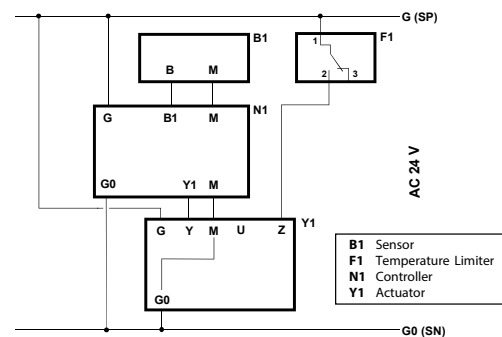
VAL Series - Wiring

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		Actuator Output Signal			
G	System potential (SP)	Actuator Input Signal	Receiving Impedance	Low (<500 Ohm)	High (>10 Ohm)
G0	System neutral (SN)				
Y	Control input 0 to 10 Vdc or 4 to 20 mA (DIP switch selectable)	0 to 10 VDC	0 to 20 mA	0 to 10 VDC	
Z	Override control	4 to 20 mA	4 to 20 mA	2 to 10 VDC	
M	Measuring neutral				
U	Output for 0 to 10 Vdc or 4 to 20 mA measuring voltage. (see above)				

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.