



2 WAY COMPACT MOTORIZED BALL VALVES

stainless steel 1/2", 3/4" and 1" sizes with manual override

These unique SV series specialty valves are used for drinking water systems and agricultural applications. These unique floating ball construction type ball valves require very low torque and can be controlled with a small compact actuator.

The Quick Connect feature allows for easy actuator installation, or to change from Normally Open to Normally Closed applications by using a designated 'O' or 'C'.

TECHNICAL SPECIFICATIONS :

Valve Body:

Body Material:304 Stainless Steel
 Valve Stem: Nickel Plated Brass
 Valve Ball:304 Stainless Steel
 Valve Seat: PTFE disc with backup ring
 Valve Packing: Double O ring
 with PTFE friction ring base
 Close Off: 150psi and 100% tight shut off
 Working Pressure: 150 PSI (10 Bar)
 Media Temperature: . 35°F to 194°F (2°C to 90°C)

Actuators:

FLP - Fail Last Position
 Capacitor Return Fail Safe - minimum power on time required 15 secs for 24V
 Rated Voltage: 24VAC
 or 9V to 24V DC
 Power: Max 5 watts
 Output Torque: 17in/lb (2 NM)
 Enclosure: NEMA 4 (IP 65)
 Connection: 19.5" (500mm) PVC Cable
 Ambient Temperature: 40°F to 120°F
 (5°C to 50°C)
 Travel Time: <5 seconds
 Noise Level: 55 dB
 Standard Features: Position Indication
 Quick Connect Mounting

Agency Approvals:

Conforms to CE EN 60730
 ESC Certificate EN60534-2-3:1998
 Quality Assurance System 97/23/EC
 ISO9093-1-1997

Certified toNSF/ANSI Standard 61
 One year warranty.

Position indicator window



In case of an electrical supply failure it is possible to operate the actuator manually.

1. Power must be in off position when manual override is used.
2. Gently pull up the knob about 1/8", then turn the knob left or right to open or close the valve, as per the position indicator.
3. To finish using manual override, press down the knob to resume normal electric operation.

Actuator with "Quick Connect" feature for easy installation in difficult situations.

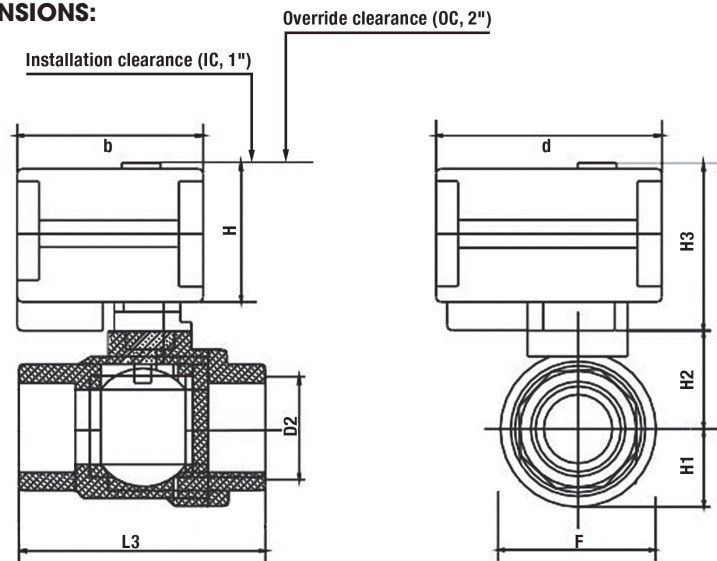
ACTUATORS

| Part No: | 24V AC | 9-24 VDC | 17 in/lb | Capacitor Return Fail Safe Circuit A | FLP 2 Point Control 3 wire Circuit C | Pos. Ind. & Manual Override |
|----------|--------|----------|----------|--------------------------------------|--------------------------------------|-----------------------------|
| MS1630 | X | | X | | X | X |
| MS1620 | X | X | X | X | | X |

VALVE BODIES All dimensions in inches

| Connection | Part No | Size | L3 | F | H1 | H2 | H3 | b | d | Weight lbs |
|--------------------------|-----------|------|-------|-------|-----|-------|-------|-------|-------|------------|
| F x F North American NPT | SV402N-12 | 1/2" | 2 1/2 | 1 3/8 | 3/4 | 1 | 3 1/8 | 2 1/4 | 2 5/8 | 1.02 |
| | SV402N-34 | 3/4" | 2 7/8 | 1 5/8 | 7/8 | 1 1/8 | 3 1/8 | 2 1/4 | 2 5/8 | 1.24 |
| | SV402N-10 | 1" | 3 1/4 | 1 7/8 | 1 | 1 1/4 | 3 1/8 | 2 1/4 | 2 5/8 | 1.56 |

DIMENSIONS:



HOW TO ORDER

VALVE BODY | ACTUATOR
SV 402 N-12-1620-0

LINKAGE POSITION:
 1630 On Signal O=Open, C=Closed
 1620 O=Fail Open, C=Fail Closed

OPTIONS: 0=manual override

CONTROL: 2=circuit A, 3=circuit C

SERIES 6

ACTUATOR: 9-24VAC/DC

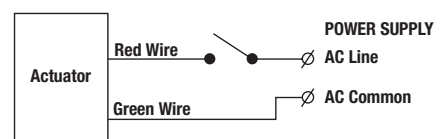
VALVE SIZE: 12=1/2", 34=3/4", 10=1"

PIPING CONNECTION: N=NPT FxF

VALVE BODY TYPE: 402= 2 way Stainless Steel,

SV=Ball Valve

CIRCUIT TYPE A



CIRCUIT TYPE C

