



## Compact Electric Actuated 3 Way Stainless steel Ball Valve

- Sizes 1/4" - 1" BSPT
- Easy Installation
- IP67 Protected
- Offers economy and long life
- Voltage : 24 VDC, 110 or 230 VAC
- Modular Design
- L or T Port Options
- Stainless Steel Body, RPTFE Seats
- - 20°C to + 200°C

### Description

A combination of our HQ003 Compact Electric Actuator fitted to a 3 way, stainless steel reduced bore ball valve in L or T port configurations. This combination offers both reliability with economy. The HQ003 electric actuator is specially designed for easy installation having pre wired flying leads. Weatherproofed to IP67 and is supplied with, manual override and limit switches, LED open and closed indication and anti condensation heaters. In addition this High Quality unit provides optical position indication, with all electrical components and alloy gearing ensuring reliability and extended life span.

The ball valve body is in stainless steel CF8M and the ball 316 St. St. with RPTFE (15% filled) seats, PTFE seals and Viton O ring. The end connections are female and screwed BSPT Taper. The valve and actuator fit directly onto each other (valve has an ISO mounting pad) so no mounting kits are required, thus making the package more compact and cost effective.

The EE4353 is in a modular program range of mounting of quarter turn valves

### Design Advantages

#### Low cost

#### Blow - out proof stem

*Prevents stem blowing out for maximum safety.*

#### Easy in line Installation

*Pre Wired Actuator-3m Flying lead – no need for the cover to be removed during installation*



### Description

1/4" - 1" Direct mount compact electric stainless steel three way reduced bore ball valve, with RPTFE seats. End connections screwed BSPT. Valve pressures up to 1000 PSI. Temperature Range -20°C to 200°C. Flying leads provide easy wiring of this compact actuator which has the addition of limit switches, optical indication and manual override.



### Beschreibung

1/4" - 1" Direktmontage kompakter elektrischer Edelstahl-Dreiweg-Kugelhahn mit reduziertem Durchgang, mit RPTFE-Sitzen. Endanschlüsse verschraubt BSPT. Ventildrücke bis 1000 PSI. Temperaturbereich -20°C bis 200°C einfache Verdrahtung dieses kompakten Stellantriebs, der zusätzlich mit Endschaltern, optischer Anzeige und manueller Notbetätigung ausgestattet ist.



### Descripción

1/4" - 1" Válvula de bola eléctrica compacta de tres vías de paso reducido de acero inoxidable de montaje directo, con asientos de RPTFE. Conexiones finales roscadas BSPT. Presiones de válvula de hasta 1000 PSI. Rango de temperatura -20 ° C a 200 ° C. cableado fácil de este actuador compacto que tiene la adición de interruptores de límite, indicación óptica y anulación manual.



### Description

1/4" - 1" Vanne à boisseau sphérique électrique compacte à trois voies en acier inoxydable à montage direct, avec sièges RPTFE. Connexions d'extrémité vissées BSPT. Pressions de vanne jusqu'à 1000 PSI. Plage de température -20°C à 200°C. Des fils volants fournissent câblage facile de cet actionneur compact qui a en plus des interrupteurs de fin de course, une indication optique et une commande manuelle.

## Description

PN82 Stainless Steel 'L' and T Port Ball Valve.  
Reduced Bore. RPTFE / Viton Seals.

## Connection

BSP Taper F/F Ends (ISO 7/1)

## Approval

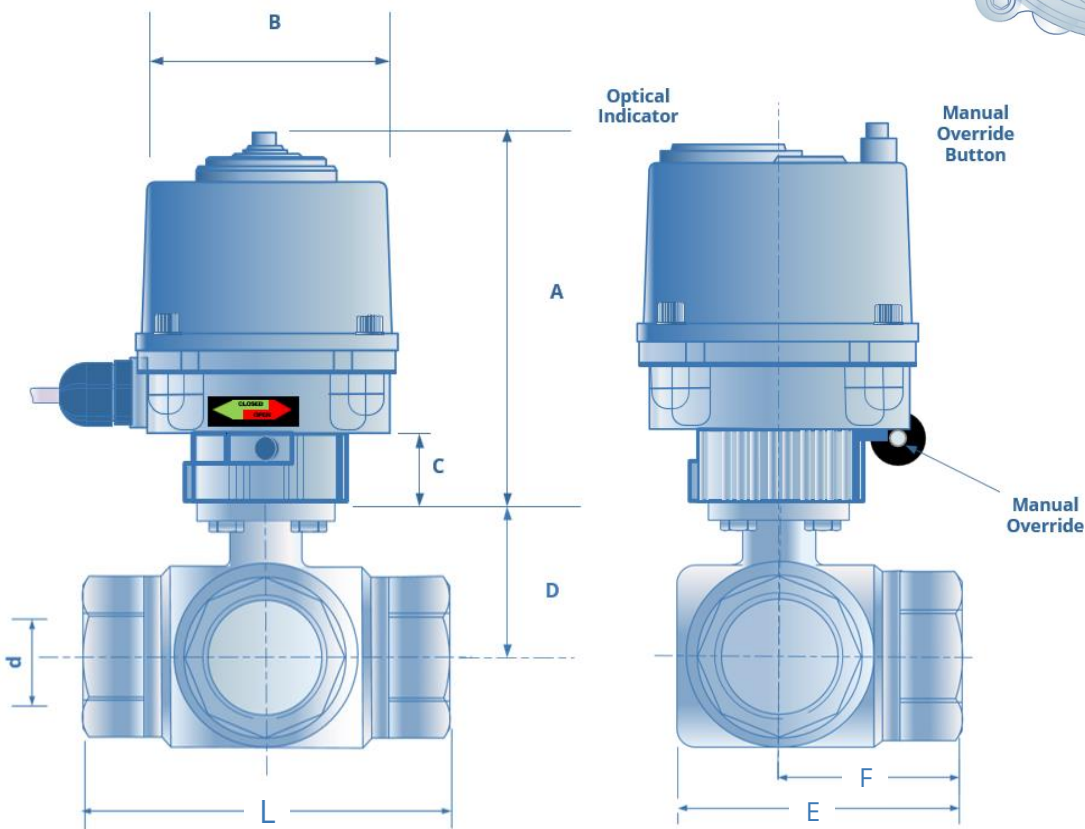
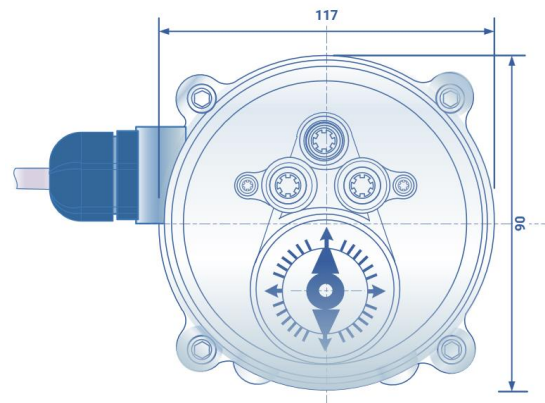
ATEX Approved

## Pressure

82 Bar Rated (1/4" - 1")

## Temperature

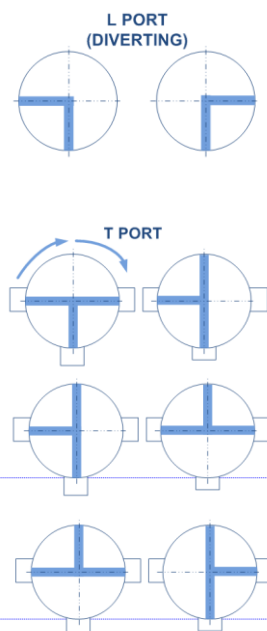
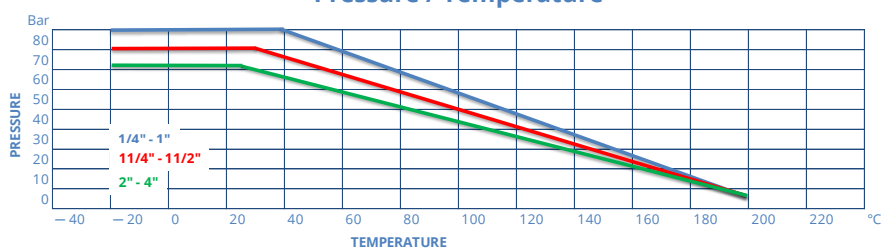
-20°C to +200°C



Dimensions mm

| Port Connection | Actuator Type | A     | B    | C  | D  | Ød  | E  | L   | F    | E    | Weight kg |
|-----------------|---------------|-------|------|----|----|-----|----|-----|------|------|-----------|
| Size            | Model         |       |      |    |    |     |    |     |      |      |           |
| 1/4"            | V003          | 124.3 | 88.6 | 22 | 66 | 9.5 | 32 | 75  | 37.5 | 57.5 | 1.9       |
| 3/8"            | V003          | 124.3 | 88.6 | 22 | 66 | 11  | 32 | 75  | 37.5 | 57.5 | 1.9       |
| 1/2"            | V003          | 124.3 | 88.6 | 22 | 66 | 12  | 39 | 75  | 37.5 | 57.5 | 1.9       |
| 3/4"            | V003          | 124.3 | 88.6 | 22 | 72 | 15  | 43 | 85  | 42.5 | 65.5 | 2.2       |
| 1"              | V003          | 124.3 | 88.6 | 22 | 77 | 20  | 53 | 100 | 50   | 79   | 2.6       |

Pressure / Temperature



The electric actuator is specially designed for quarter turn applications such as this small ball valve. Small, light and compact design, superior in operation and long life than other mini electric actuators.

Supplied with 4 switches, Anti Condensation Heater and fitted with LED lamp indicators for Open & Close positions.

The lever manual override is activated by pressing the declutch push button located on the top of the housing. This must remain pressed during operation of the lever.

High quality electrical components and alloy gearing ensure reliability and extended life span.

Supplied with a 3m flying lead so removal of the cover is not required during installation.

The Actuator housing is hard anodised inside and out prior to painting for increased corrosion resistance.

### Actuator Specification

|                          |                            |
|--------------------------|----------------------------|
| Enclosure                | Weatherproof IP67          |
| Power Supply             | 85-265v 50/60Hz, 24v DC    |
| Duty Cycle (on/off Duty) | S4 50%                     |
| Motor                    | Reversible Motor           |
| Limit Switches           | 2 x SPDT, 250V AC 3A       |
| Additional Switches      | 2 x SPDT, 250V AC 3A       |
| Space Heater             | 0.5 W                      |
| Manual Override          | Push Button Lever Operated |
| Movement Angle           | 90° ±5 (0° to 90°)         |
| Ambient Temperature      | 20°C to 70°C               |
| Extrernal Coating        | Dry Powder, Polyester      |

| Maximum Output Torque | Operating Time 50/60Hz | Rated Current (A) |         |        |
|-----------------------|------------------------|-------------------|---------|--------|
|                       |                        | AC 1PH 50/60Hz    | 220V    | DC 24V |
| 30Nm                  | 12 Secs                | 110V              | 0.1/0.1 | 0.5    |

### Valve Materials

| No. | Part Name         | Material    |
|-----|-------------------|-------------|
| 1   | Body              | CF8M        |
| 2   | End Cap           | CF8M        |
| 3   | ball              | SUS316      |
| 4   | Stem              | SUS316      |
| 5   | Stem Nut          | SUS 304     |
| 6   | Stem Washer       | SUS 304     |
| 7   | Seat              | R-PTFE 15%  |
| 8   | Stem Packing      | PTFE        |
| 9   | Stem Seal         | PTFE        |
| 10  | Belleville Washer | SUS 304/301 |
| 11  | O Ring            | Viton       |
| 12  | Gasket            | PTFE        |

IP67 Aluminium housing

Optical and electrical indication including LED lamps to show either open or closed

Manual Emergency Lever

4 off limit switches

Anti condensation heater

3m Flying lead – no need for the cover to be removed during installation

### V003 WIRING DIAGRAM

