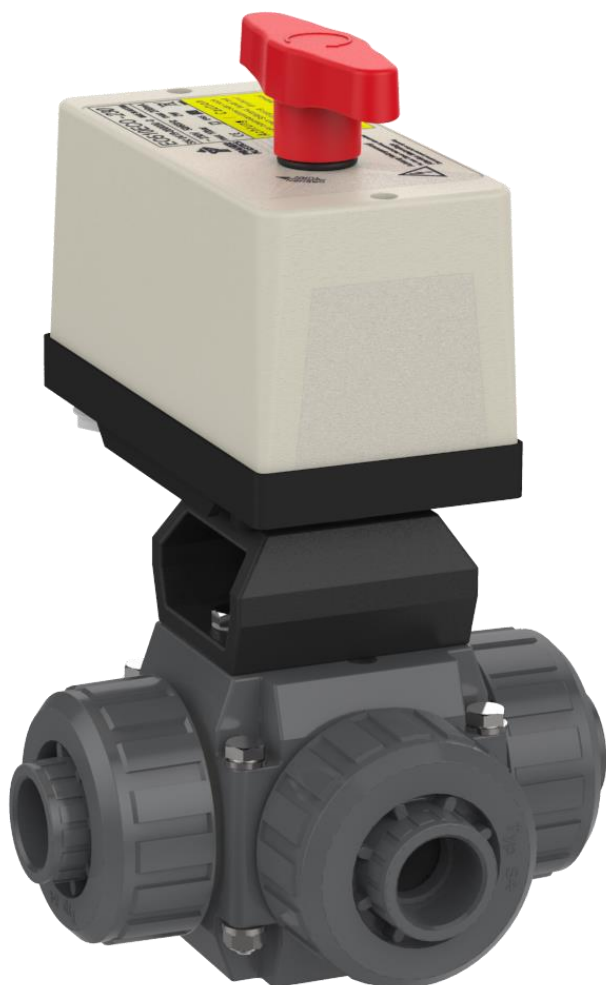


## 3 way ball valve S4

### Electric actuator EO510 IND



This document does not constitute a guarantee, it is for initial information purpose only. The product range is continually upgraded, the designs and types therefore only reflect the state of the art at the time of printing. Subject to technical modifications!

#### General:

- Material: PVC-U / PP / PVDF
- Sealing material: EPDM / FPM
- Ball seating joint: PTFE
- Ball: T- or L-bore
- Dimensions
  - DN10 (DN15 / d16 / d3/8")
  - DN15 d20 / d1/2"
  - DN20 (DN25 / d25 / d3/4")
  - DN25 d32 / d1"
  - DN32 (DN40 / d40 / d1 1/4")
  - DN40 d50 / d1 1/2"
- Voltages: 24V AC  
12 – 24V DC

#### Connector types

- Solvent socket DIN  
PVC
- Solvent spigot DIN  
PVC
- Fusion socket DIN  
PP / PVDF
- Fusion spigot DIN  
PP / PVDF

#### Operating pressure:

DN10 d12 3/8" – DN25 d10 1" 10 bar  
DN32 d40 1 1/4" – DN40 d50 1 1/2" 3 bar

#### Technical Features:

- Manual override with visual position indicator
- 4 possible travel stops
- Position feedback possible
- Protection class IP65

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Смоленск (4812)29-41-54  
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Ставрополь (8652)20-65-13

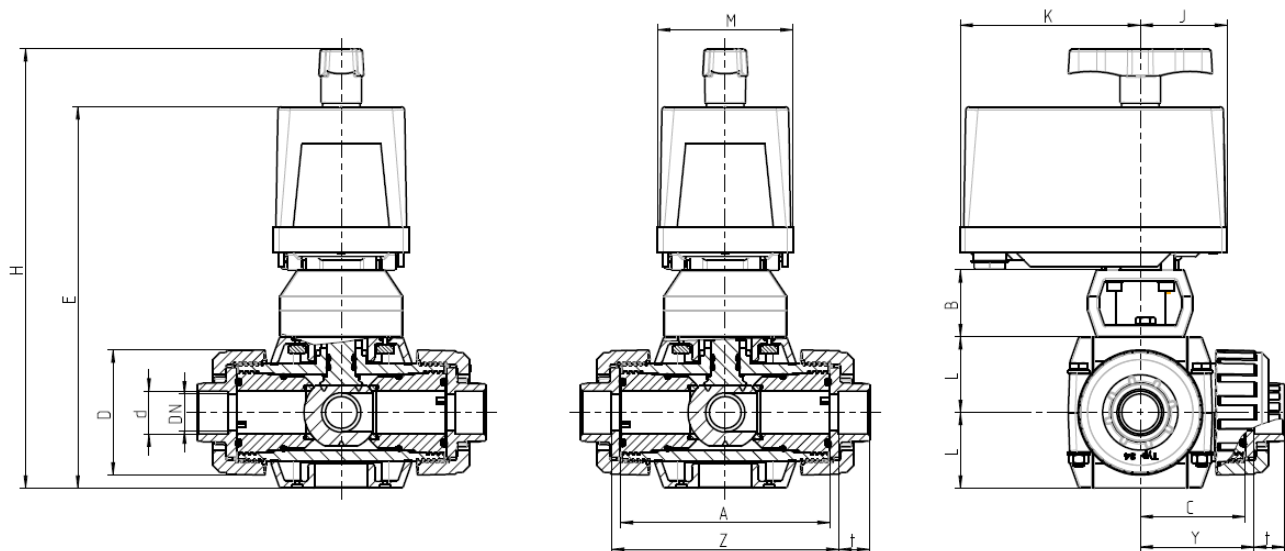
Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
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## 3 way ball valve S4

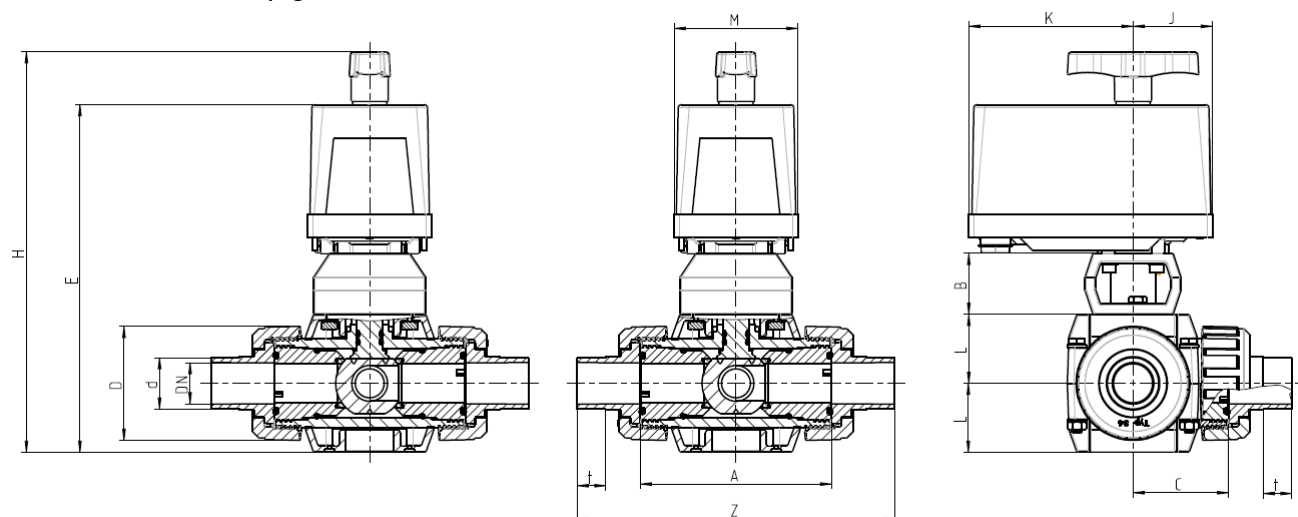
Electric actuator EO510 IND

### **Dimensions:**

BV-PVC-U solvent socket:



BV-PVC-U solvent spigot:



## 3 way ball valve S4

### Electric actuator EO510 IND

#### PVC-U

##### Connector types

PVC solvent socket / solvent spigot

|                    |                                                  |       |       |       |       | <i>without console</i> |       |
|--------------------|--------------------------------------------------|-------|-------|-------|-------|------------------------|-------|
|                    | DN                                               | 10    | 15    | 20    | 25    | 32                     | 40    |
|                    | d                                                | 16    | 20    | 25    | 32    | 40                     | 50    |
| ball valve PVC-U   | A                                                | 100   | 100   | 120   | 120   | 162                    | 162   |
|                    | C                                                | 50    | 50    | 60    | 60    | 81                     | 81    |
|                    | D                                                | 53    | 53    | 70    | 70    | 101                    | 101   |
|                    | t <sub>SSO</sub> <sup>1</sup> / SSP <sup>2</sup> | 16,5  | 16,5  | 20    | 22,5  | 27,5                   | 31,5  |
|                    | Y                                                | 53    | 53    | 63    | 63    | 84,5                   | 85,5  |
|                    | Z <sub>SSO</sub> <sup>1</sup>                    | 106   | 106   | 126   | 126   | 169                    | 171   |
|                    | Z <sub>SSP</sub> <sup>2</sup>                    | 153   | 163   | -     | 200   | -                      | 261   |
|                    | bar                                              | 10    | 10    | 10    | 10    | 3                      | 3     |
| Bracket / actuator | E                                                | 196,5 | 196,5 | 216,5 | 216,5 | 205                    | 205   |
|                    | H                                                | 229,5 | 229,5 | 249,5 | 249,5 | 238                    | 238   |
|                    | M                                                | 77    | 77    | 77    | 77    | 77                     | 77    |
|                    | J                                                | 49,5  | 49,5  | 49,5  | 49,5  | 49,5                   | 49,5  |
|                    | K                                                | 102,5 | 102,5 | 102,5 | 102,5 | 102,5                  | 102,5 |
|                    | L                                                | 33    | 33    | 43    | 43    | 56                     | 56    |
|                    | B                                                | 38    | 38    | 38    | 38    | -                      | -     |

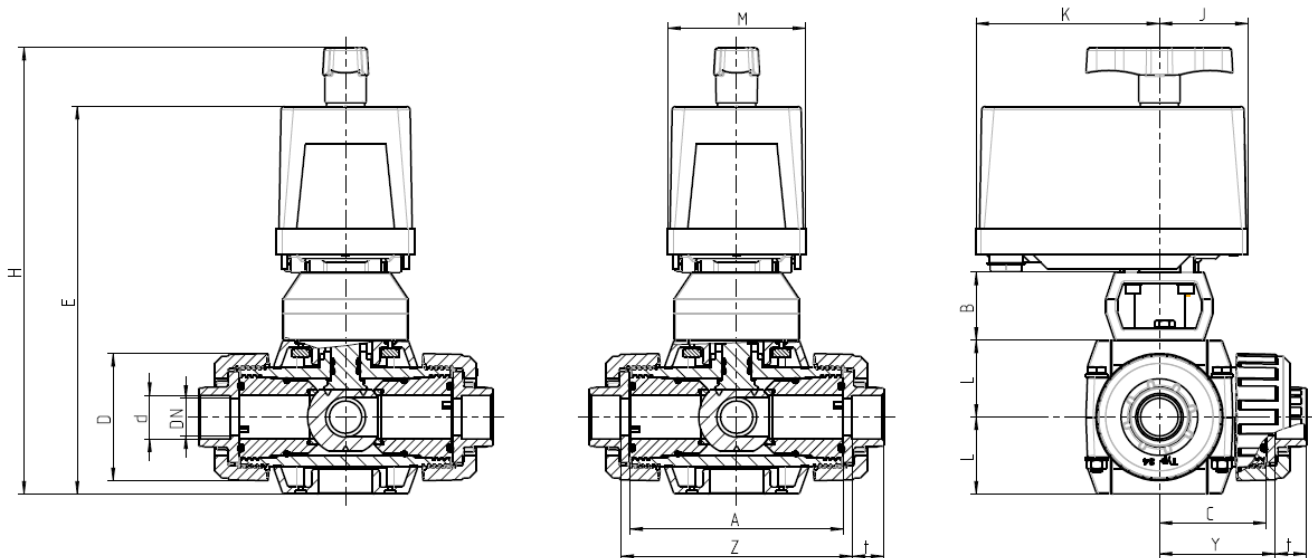
dimensions in mm

<sup>1</sup> SSO = solvent socket

- = currently not realised

<sup>2</sup> SSP = solvent spigot

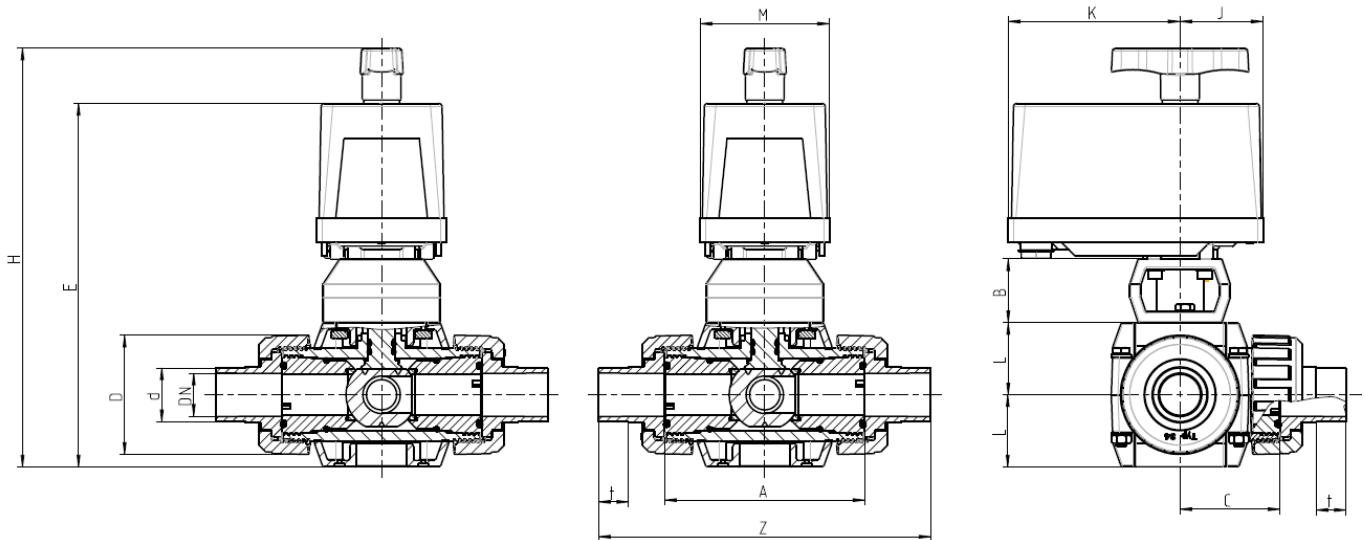
#### BV-PP/PVDF fusion socket:



## 3 way ball valve S4

### Electric actuator EO510 IND

BV-PP/PVDF fusion spigot:



#### PP / PVDF

##### Connector types

PP / PVDF fusion socket / fusion spigot

|                      |                               | DN | 10    | 15    | 20    | 25    |
|----------------------|-------------------------------|----|-------|-------|-------|-------|
|                      |                               | d  | 16    | 20    | 25    | 32    |
| ball valve PP / PVDF | A                             |    | 98    | 98    | 118   | 118   |
|                      | C                             |    | 49    | 49    | 59    | 59    |
|                      | D                             |    | 53    | 53    | 70    | 70    |
|                      | t <sub>FSO</sub> <sup>1</sup> |    | 14,5  | 16    | 17,5  | 19,5  |
|                      | t <sub>FSP</sub> <sup>2</sup> |    | 13    | 14    | 16,5  | 18,5  |
|                      | Y <sub>FSO</sub> <sup>1</sup> |    | 54    | 52    | 64    | 65    |
|                      | Z <sub>FSO</sub> <sup>1</sup> |    | 107   | 104   | 128   | 129   |
|                      | Z <sub>FSP</sub> <sup>2</sup> |    | 150   | 160   | 190   | 197   |
|                      | bar                           |    | 10    | 10    | 10    | 10    |
| Bracket / actuator   | E                             |    | 196,5 | 196,5 | 216,5 | 216,5 |
|                      | H                             |    | 229,5 | 229,5 | 249,5 | 249,5 |
|                      | M                             |    | 77    | 77    | 77    | 77    |
|                      | J                             |    | 49,5  | 49,5  | 49,5  | 49,5  |
|                      | K                             |    | 102,5 | 102,5 | 102,5 | 102,5 |
|                      | L                             |    | 33    | 33    | 43    | 43    |
|                      | B                             |    | 38    | 38    | 38    | 38    |

dimensions in mm

<sup>1</sup> FSO = fusion socket

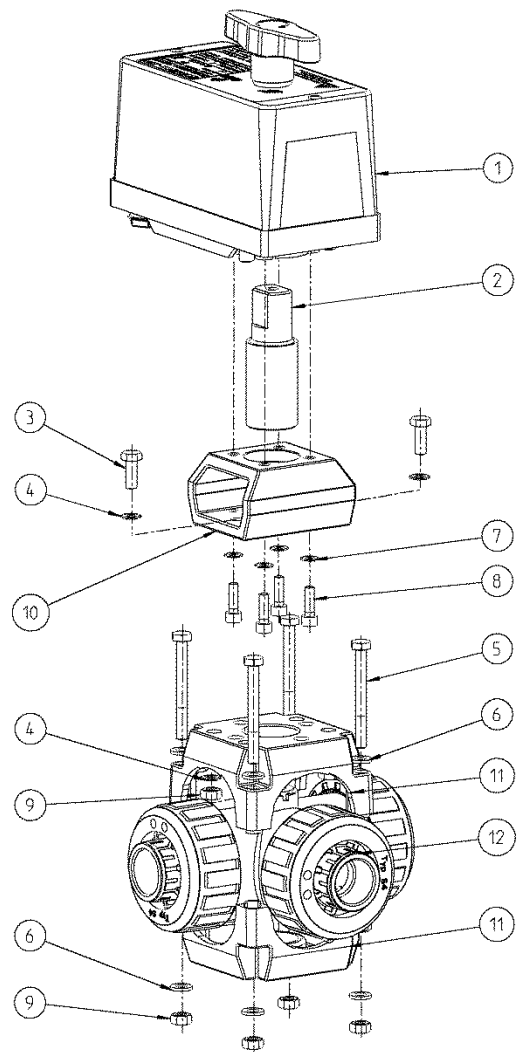
<sup>2</sup> FSP = fusion spigot

## 3 way ball valve S4

### Electric actuator EO510 IND

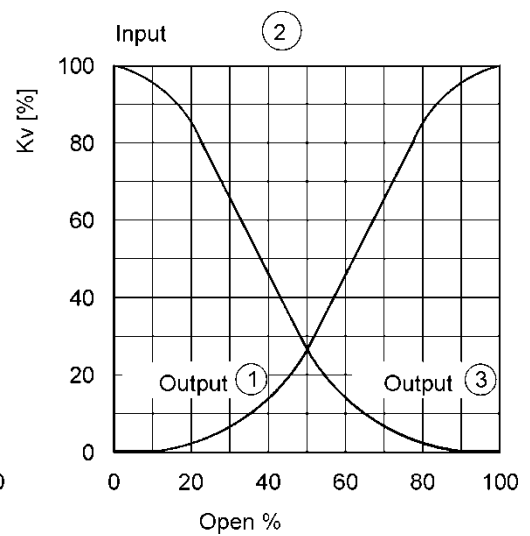
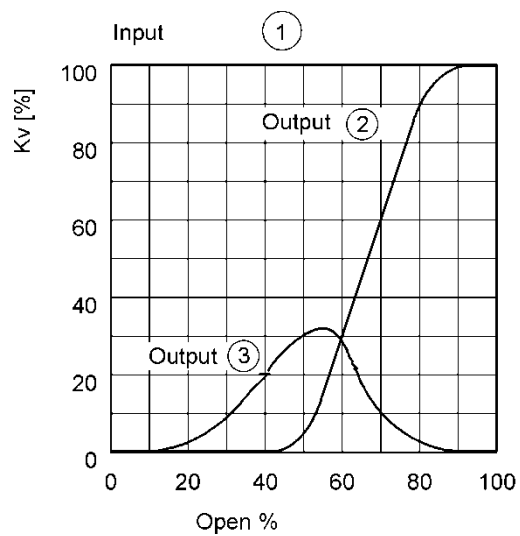
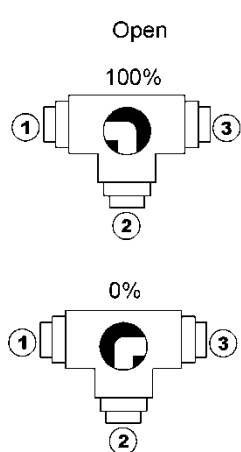
#### Exploded drawing:

1. Actuator
2. Clutch
3. Screws
4. Tooth wheel
5. Screws
6. Washer
7. Tooth wheel
8. Screw
9. Nut
10. Console
11. Bracket
12. 3 way ball valve S4



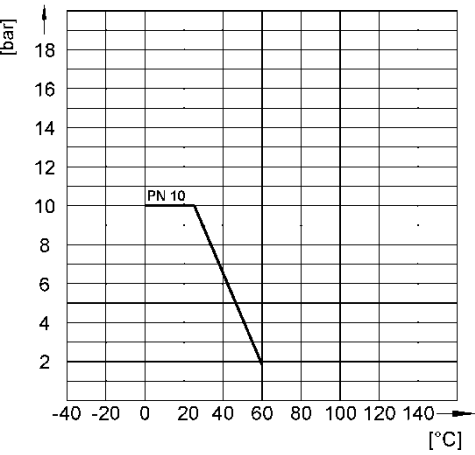
#### Diagrams:

#### Flow-Characteristic

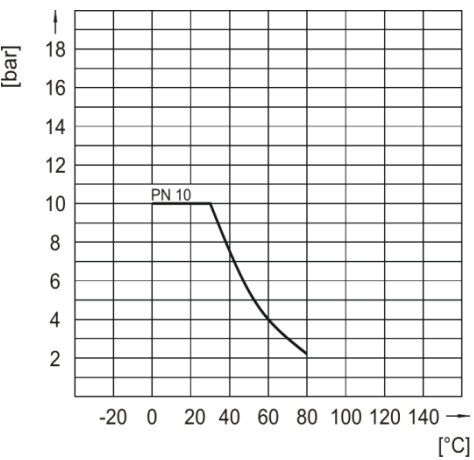


**3 way ball valve S4**  
Electric actuator EO510 IND

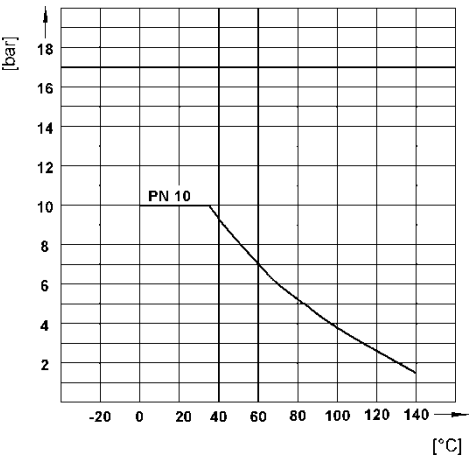
Pressure-Temperature-Diagram – PVC-U



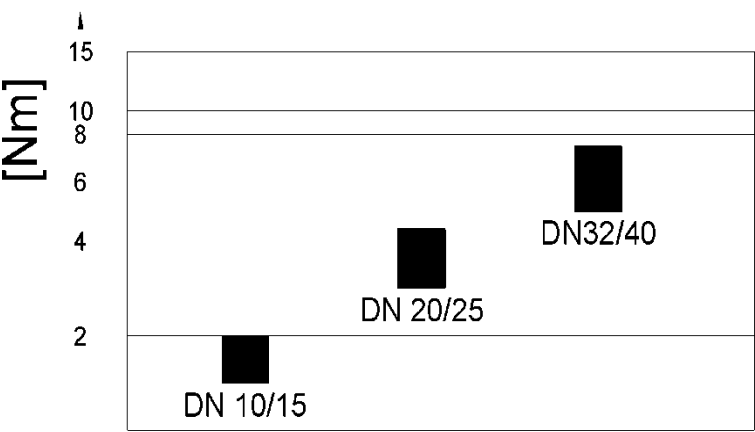
Pressure-Temperature-Diagram – PP



Pressure-Temperature-Diagram – PVDF



Torque



### 3 way ball valve S4

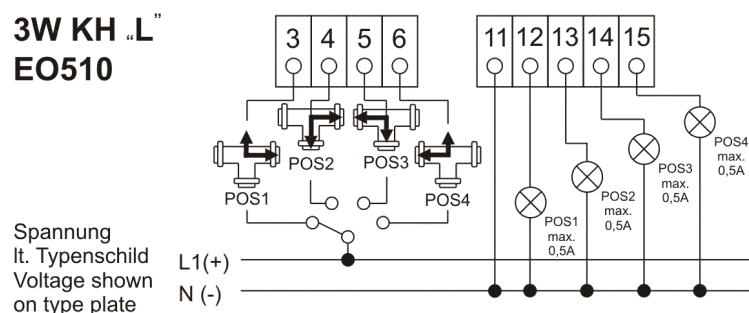
#### Electric actuator EO510 IND

#### Technical data EO510 IND:

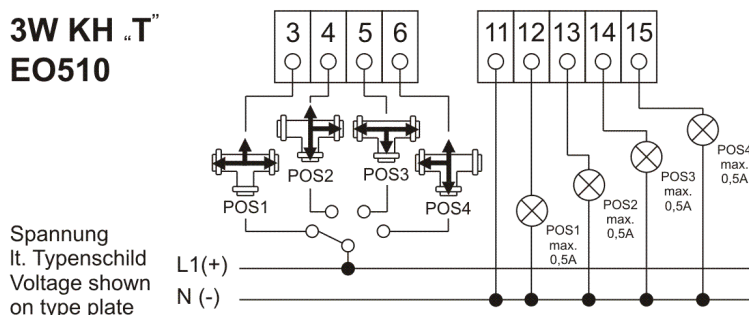
|                       | EO510 IND-24                                         |
|-----------------------|------------------------------------------------------|
| Voltages              | 24V AC/DC                                            |
| Frequency range       | 50 / 60 Hz                                           |
| Power consumption     | 8 Watt max.                                          |
| Protection            | IP65                                                 |
| Operating time        | 12 sec 90°                                           |
| Rotation angle        | 360° set to 90°<br>2 intermediate positions possible |
| Duty duration         | 60% / max. 20 min                                    |
| Electrical connection | cable gland                                          |
| Nominal torque        | 7 Nm                                                 |
| Peak torque           | 9 Nm                                                 |
| Temperature           | 0°C bis + 50°C                                       |
| Body material         | ABS                                                  |
| Position indicator    | optically (manual override handle)                   |
| Manual override       | integrated                                           |

#### Electrical Connection:

##### 3W KH „L” EO510



##### 3W KH „T” EO510



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