



EV210B covers a wide range of direct-operated 2/2-way solenoid valves for universal use.

EV210B are a very robust valves program with high performance and can be used in all kind of tough working conditions in demanding industrial applications such as control and closage.

#### **Features and versions:**

- For water, oil, compressed air and similar neutral media
- Clip on coil
- Ambient temperature: up to 80 °C
- Coil enclosure: up to IP67
- The valves can be used for vacuum
- EV210B brass version for water, oil, compressed air and similar neutral media
- EV210B stainless steel version for neutral and aggressive liquids and gasses



# 1 Portfolio overview

Table 1: Portfolio overview

| Features                          | EV210B      | EV210B          |
|-----------------------------------|-------------|-----------------|
|                                   |             |                 |
| Body material                     | Brass       | Stainless steel |
| DN [mm]                           | 1.5 – 25    | 2-3             |
| Connection                        | G 1/8 – G 1 | G1/8-G1/4       |
| Sealing material                  | EPDM, FKM   | EPDM            |
| Function                          | NC, NO      | NC              |
| Kv [m³/h]                         | 0.08-8.00   | 0.15-0.30       |
| Differential pressure range [bar] | 0 – 30      | 0-30            |
| Temperature range [°C]            | -30 – 120   | -30-120         |



#### 2 Functions

### 2.1 Function NC

### **Coil voltage disconnected (closed):**

When the voltage to the coil (5) is disconnected, the armature (2) with the valve plate (3) is pressed down against the valve orifice (4) by the closing spring (1) and the medium, s pressure.

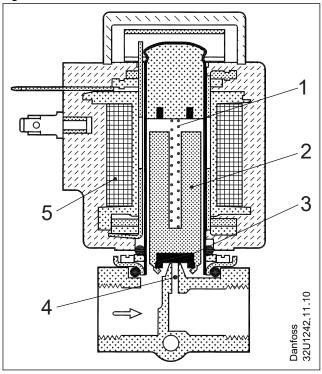
The valve will be closed for as long as the voltage to the coil is disconnected.

#### Coil voltage connected (open):

When voltage is applied to the coil(5), the armature (2) with the valve plate (3) is lifted clear of the valve orifice (4).

The valve is now open for unimpeded flow and will be open for as long as there is voltage to the coil.

Figure 1: Function NC



| 1 | Closing spring |
|---|----------------|
| 2 | Armature       |
| 3 | Valve plate    |
| 4 | Valve orifice  |
| 5 | Coil           |

### 2.2 Function NO

### Coil voltage connected (open):

When the voltage to the coil(8) is disconnected, the valve orifice (5) is open, the opening spring (2) lifting the spindle (3) with the valve plate (4) clear of the orifice.

The valve will be open for as long as the supply voltage to the coil is disconnected.

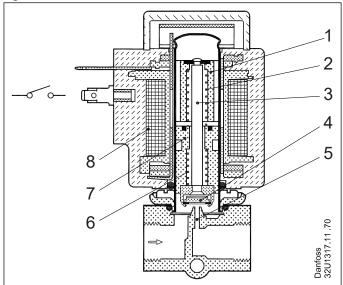
#### **Coil voltage disconnected (closed):**

When voltage is applied to the coil (8), the magnetic field draws the valve,s armature (1) down to touch the fixed base(7). The spindle (3) with the valve plate (4) is now pressed down against the valve orifice (5) by the closing spring (6).

The valve will be closed for as long as there is voltage to the coil.







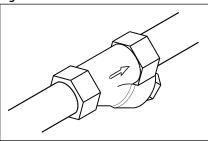
| 1 | Armature       |
|---|----------------|
| 2 | Opening spring |
| 3 | Spindle        |
| 4 | Valve plate    |
| 5 | Valve orifice  |
| 6 | Closing spring |
| 7 | Fixed base     |
| 8 | Coil           |



## 3 Applications

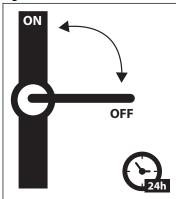
It is recommended to use a filter in front of the valve. Recommended filter 50 mesh (297 microns).

Figure 3: Filter



In water applications, exercise the valves at least once every 24 hours, meaning change the state of the valve. The valve exercise will minimize the risk of the valve sticking due to calcium carbonate, zinc or iron oxide build-up.

Figure 4: Exercise: Valve on/off



To minimize scaling, and corrosion attack it is recommended that the water passing the valve have the following values:

- Hardness 6 18 °dH to avoid scaling (chalk / lime stone build up)
- Conductivity 50 800  $\mu$ S/cm to avoid brass dezincification and corrosion
- Above 25 °C media temperature avoid stagnant water inside the valve to avoid dezincification and corrosion attack



# **4 Product specification**

## **4.1 Technical data**

Table 2: Technical data

| Table 2. Technical data                  |  |                             |   |  |  |
|--|--|-----------------------------|---|--|--|
|  | EV210B brass   | FKM                         | For oil, compressed air   |  |  |
| Media                                    | LV2 TOD DIA33  | EPDM                        | For water   |  |  |
|  | EV210B stainless   | EPDM                        | For neutral and aggressive liquids and gasses for neutral and aggressive liquids and gasses |  |  |
| Media temperature [°C]                   | EPDM   |                             | -30 - 120 °C  |  |  |
| media temperature [ C]                   | FKM  |                             | -10 - 100 °C  |  |  |
| Ambient temperature [°C]                 | Up to 80 °C  |                             |   |  |  |
|  | DN1.5  |                             | 0.08 m <sup>3</sup> /h  |  |  |
|  | DN2  |                             | 0.15 m <sup>3</sup> /h  |  |  |
|  | DN3  |                             | 0.30 m <sup>3</sup> /h  |  |  |
|  | DN4.5  |                             | 0.55 m <sup>3</sup> /h  |  |  |
|  | DN6  |                             | 0.70 m <sup>3</sup> /h  |  |  |
| Kv value [m³/h]                          | DN8  |                             | 1 m³/h  |  |  |
|  | DN10   |                             | 1.50 m <sup>3</sup> /h  |  |  |
|  | DN15 (G3/8)  |                             | 2.50 m <sup>3</sup> /h  |  |  |
|  | DN15 (G½)  |                             | 2.85 m <sup>3</sup> /h  |  |  |
|  | DN20   |                             | 4.50 m <sup>3</sup> /h  |  |  |
|  | DN25   |                             | 8.00 m <sup>3</sup> /h  |  |  |
| Min. Opening differential pressure [bar] | 0 bar  |                             |   |  |  |
| Max. Opening differential pressure [bar] | Up to 30 bar   |                             |   |  |  |
| Max. working pressure [bar]              | Up to 30 bar (Equal to r   | nax. differential pressure) |   |  |  |
|  | DN1.5 - 4.5  |                             | 52.5 bar  |  |  |
| Max. test pressure [bar]                 | DN6 - 10   |                             | 37.5 bar  |  |  |
|  | DN15 - 25  |                             | 24 bar  |  |  |
| Pressure                                 | Pressure range can be extended to use in rough vacuum, typically up to 99% vacuum (10 mbar), depending on the application                    |                             |   |  |  |
| Low pressure steam                       | 140 °C / 3.6 bar low pressure steam, orifice DN 1.5 – 4.5.  • Low pressure steam: DN 1.5 – 3 Use coil type BB or BG, DN 4.5 Use coil type BG |                             |   |  |  |
| Viscosity [cSt]                          | Max. 50 cSt  |                             |   |  |  |
|  |  |                             |   |  |  |

## Differential pressure range

Table 3: Differential pressure range, NC

|                        |              | Differential pressure min. to max. [bar] |       |       |        |        |        |        |  |  |
|------------------------|--------------|--|-------|-------|--------|--------|--------|--------|--|--|
|                        |              | NC<br>Suitable coil type                 |       |       |        |        |        |        |  |  |
| Connection<br>ISO228-1 | Orifice size |  |       |       |        |        |        |        |  |  |
| 150220 1               |              | В  | A     | BD    | BB/BE  | /BR/BY | BG     |        |  |  |
|                        |              | AC                                       | DC    | AC    | AC     | DC     | AC     | DC     |  |  |
| G1/8, G1/4             | 1.5          | 0-30                                     | 0-30  | 0-30  | 0-30   | 0-30   | 0-30   | 0-30   |  |  |
| G1/8                   | 1.5          | 0-16                                     | 0-16  | 0-16  | 0-16   | 0-16   | 0-16   | 0-16   |  |  |
| G1/8, G1/4             | 2.0          | 0-30                                     | 0-20  | 0-30  | 0-30   | 0-30   | 0-30   | 0-30   |  |  |
| G½, G¼,G¾              | 2.0          | 0-15                                     | 0-9   | 0-24  | 0-20   | 0-13   | 0-30   | 0-25   |  |  |
| G¼, G¾                 | 3.0          | 0-15                                     | 0-9   | 0-16  | 0-16   | 0-13   | 0-16   | 0-16   |  |  |
| C1/ C3/                | 4.5          | 0-8                                      | 0-3.5 | 0-12  | 0-10   | 0-4.5  | 0-13   | 0-9    |  |  |
| G¼, G¾                 | 4.5          | 0-8                                      | 0-3.5 | 0-12  | 0-10   | 0-4.5  | 0-13   | 0-9    |  |  |
| G¼, G¾                 | 6.0          | 0-2.5                                    | 0-1   | 0-3.3 | 0-4    | 0-2    | 0-6    | 0-4.5  |  |  |
| G3/8, G1/2             | 8.0          | 0-1.5                                    | 0-0.5 | 0-2   | 0-2    | 0-1.2  | 0-3    | 0-2.5  |  |  |
| G3/8, G1/2             | 10.0         | 0-0.8                                    | 0-0.3 | 0-1.1 | 0-1.2  | 0-0.6  | 0-1.6  | 0-1.3  |  |  |
| G3/8, G1/2             | 15.0         | 0-2.5                                    |       | 0-0.4 | 0-0.3  | 0-0.15 | 0-0.45 | 0-0.4  |  |  |
| G3⁄4                   | 20.0         |  |       |       | 0-0.28 | 0-0.12 | 0-0.4  | 0-0.35 |  |  |
| G1                     | 25.0         |  |       |       | 0-0.25 | 0-0.9  | 0-0.35 | 0-0.2  |  |  |



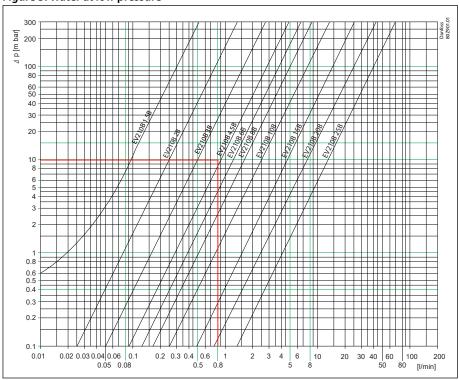
Table 4: Differential pressure range, NO

|                        |              | Differential pressure min. to max. [bar] |                   |      |      |      |      |      |  |  |  |
|------------------------|--------------|--|-------------------|------|------|------|------|------|--|--|--|
|                        |              | NO                                       |                   |      |      |      |      |      |  |  |  |
| Connection<br>ISO228-1 | Orifice size | Suitable coil type                       |                   |      |      |      |      |      |  |  |  |
|                        |              | В  | BA BD BB/BE/BR/BY |      |      |      | BG   |      |  |  |  |
|                        |              | AC                                       | DC                | AC   | AC   | DC   | AC   | DC   |  |  |  |
| G1/8                   | 1.5          | 0-30                                     | 0-30              | 0-30 | 0-30 | 0-30 | 0-30 | 0-30 |  |  |  |
| G1/8, G1/4             | 2.0          | 0-12                                     | 0-12              | 0-12 | 0-12 | 0-12 | 0-12 | 0-12 |  |  |  |
| G¼                     | 3.0          | 0-5                                      | 0-5               | 0-5  | 0-5  | 0-5  | 0-5  | 0-5  |  |  |  |
| G1⁄4                   | 4.5          | 0-2                                      | 0-2               | 0-2  | 0-2  | 0-2  | 0-2  | 0-2  |  |  |  |

## Capacity diagrams

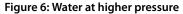
**Example, water at low pressure:** Capacity for EV210B 1.5B at differential pressure of 10 mbar. Approx. 0.08 l / min

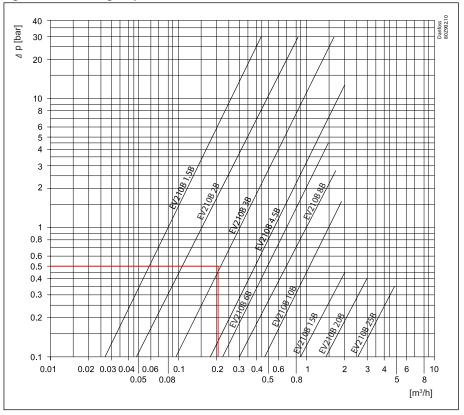
Figure 5: Water at low pressure



 $\textbf{Example, water at higher pressure:} \ Capacity \ for \ EV210B \ 3B \ at \ differential \ pressure \ of \ 0.5 \ bar. \ Approx. \ 0.21 \ m^3 \ / \ h$ 

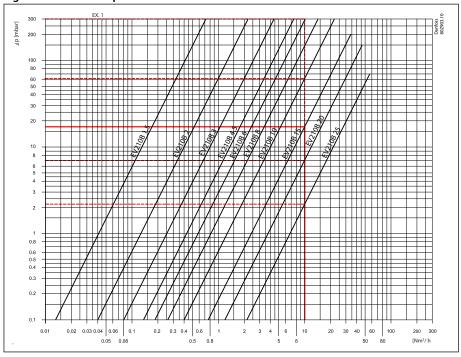






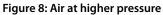
Example, air at lower pressure: Capacity for EV210B 15B at differential pressure of 17 mbar. Approx. 10 Nm<sup>3</sup> / h

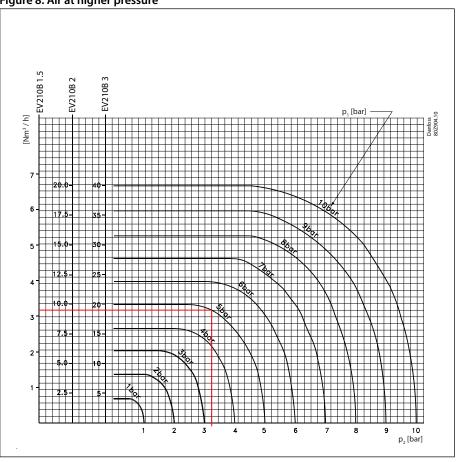
Figure 7: Air at lower pressure



**Example, air at higher pressure:** Capacity for EV210B 2B at inlet pressure (p1) of 5 bar and outlet pressure (p2) of 3.25 bar. Approx. 9 Nm<sup>3</sup> / h







## Time to open/close

Table 5: EV210B/BW Brass valve body, NC time to open/close

| Туре                             | EV210B/BW<br>1.5 - 2 | EV210B/BW<br>3-4.5 | EV210B<br>6 | EV210B<br>8 – 10 | EV210B<br>15 | EV210B<br>20 | EV210B<br>25 |
|----------------------------------|----------------------|--------------------|-------------|------------------|--------------|--------------|--------------|
| Time to open [ms] <sup>(1)</sup> | 10                   | 20                 | 20          | 20               | 30           | 40           | 40           |
| Time to close [ms](1)            | 20                   | 20                 | 20          | 30               | 50           | 50           | 70           |

 $<sup>^{(1)}</sup>$  The times are indicative and apply to water. The exact times will depend on the pressure conditions.

### Table 6: EV210B Brass valve body, NO time to open/close

| Туре                              | EV210B 1.5 - EV210B 4.5 |
|-----------------------------------|-------------------------|
| Time to open [ms] <sup>(1)</sup>  | 20                      |
| Time to close [ms] <sup>(1)</sup> | 20                      |

<sup>(1)</sup> The times are indicative and apply to water. The exact times will depend on the pressure conditions.

#### **Materials**

### **Table 7: Materials**

| Components    | Materials             | Specifications                         |
|---------------|-----------------------|--|
| Valve body    | Brass/Stainless steel | W. no. 2.0402/W.no. 1.4404 / AISI 316L |
| Armature      | Stainless steel       | W.no. 1.4105 / AISI 430 FR             |
| Armature tube | Stainless steel       | W.no. 1.4306 / AISI 304 L              |
| Armature stop | Stainless steel       | W.no. 1.4105 / AISI 430 FR             |
| Springs       | Stainless steel       | W.no. 1.4310 / AISI 301                |
| Valve plate   | EPDM/FKM              |  |
| O-ring        | EPDM/FKM              |  |



## **4.2 Dimension and Weight**

Table 8: Dimension and weight

| <b>T</b>                   | Weight gross<br>valve body<br>without coil | L    | В    | B <sub>1</sub><br>[mm] |                                 |                 | н,   | н    |
|----------------------------|--|------|------|------------------------|---------------------------------|-----------------|------|------|
| Type                       | [kg]                                       | [mm] | [mm] | Coil type<br>BA / BD   | Coil type<br>BB / BE<br>BR / BY | Coil type<br>BG | [mm] | [mm] |
| EV210B 1.5 / EV210B 2B, NC | 0.15                                       | 35   | 34   | 32                     | 46                              | 67              | 12   | 70   |
| EV210B 3 / EV210B 4.5, NC  | 0.20                                       | 38   | 34   | 32                     | 46                              | 67              | 11   | 70   |
| EV210B 6B, NC              | 0.22                                       | 46   | 34   | 32                     | 46                              | 67              | 16   | 73   |
| EV210B 8 / EV210B 10B, NC  | 0.29                                       | 49   | 34   | 32                     | 46                              | 67              | 16   | 73   |
| EV210B 15B, NC             | 0.45                                       | 58   | 53   | 32                     | 46                              | 67              | 13   | 93   |
| EV210B 20B, NC             | 1.10                                       | 90   | 58   | 32                     | 46                              | 67              | 18   | 92   |
| EV210B 25B, NC             | 1.10                                       | 90   | 58   | 32                     | 46                              | 67              | 23   | 96   |

Figure 9: Dimension, brass body

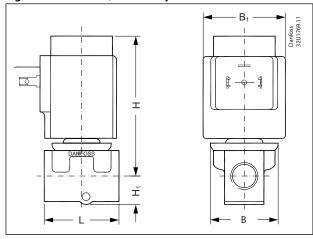
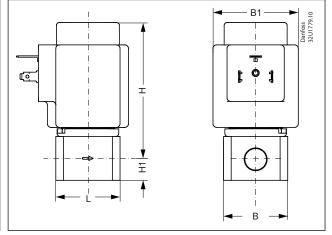
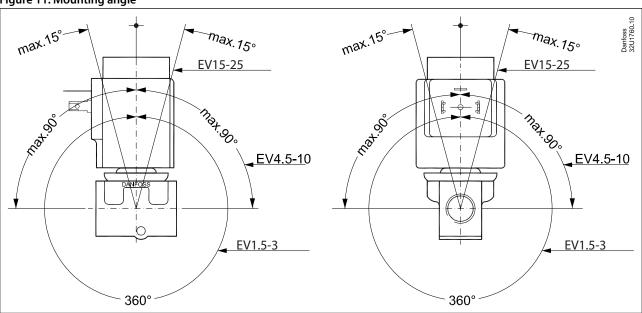


Figure 10: Dimension, stainless steel body



## 4.3 Mounting

Figure 11: Mounting angle





# **5 Ordering**

## 5.1 Parts program

Table 9: Brass/SS, valve body NC and NO

|            |         |          |          | Function |          |          |  |
|------------|---------|----------|----------|----------|----------|----------|--|
| Connection | Orifice | Kv value | Sealing  |          | EV210B   |          |  |
| ISO228/1   |         |          |          | Bra      | ass      | SS       |  |
|            | [mm]    | [m³/h]   | EPDM/FKM | NC       | NO       | NC       |  |
|            | 1.5     | 0.08     | EPDM     | 032U5701 | 032U3630 |          |  |
|            | 1.5     | 0.00     | FKM      | 032U5702 | 032U3631 |          |  |
|            | 2.0     | 0.15     | FKM      | 032U5704 |          |          |  |
| G ⅓        | 2.0     | 0.13     | EPDM     |          | 032U3632 | 032U3647 |  |
|            | 3       | 0.30     | EPDM     | 032U5705 |          |          |  |
|            | J       | 0.50     | FKM      | 032U5706 |          |          |  |
|            | 4.5     | 0.55     | EPDM     |          |          | 032U3655 |  |
|            | 1.5     | 0.08     | FKM      | 032U3629 |          |          |  |
|            |         |          | EPDM     |          |          |          |  |
|            | 2       | 0.15     | EPDM     | 032U5707 | 032U3636 | 032U3651 |  |
|            | _       |          | FKM      | 032U5708 | 032U3637 |          |  |
| G 1/4      | 3       | 0.30     | EPDM     | 032U5709 | 032U3638 | 032U3653 |  |
| 37.        | J       | 0.50     | FKM      | 032U5710 | 032U3639 |          |  |
|            | 4.5     | 0.55     | EPDM     | 032U3600 | 032U3640 |          |  |
|            | 4.5     |          | FKM      | 032U3601 |          | 032U3656 |  |
|            | 6       | 0.70     | EPDM     | 032U3602 |          |          |  |
|            | Ů       |          | FKM      | 032U3603 |          |          |  |
|            | 3       | 0.30     | EPDM     | 032U3642 |          |          |  |
|            |         |          | FKM      | 032U3643 |          |          |  |
|            | 4.5     | 0.55     | EPDM     | 032U3605 |          |          |  |
|            |         |          | FKM      | 032U3606 |          |          |  |
| G 3/8      | 6       | 0.70     | EPDM     | 032U3607 |          |          |  |
|            |         |          | FKM      | 032U3608 |          |          |  |
|            | 8.0     | 1.00     | FKM      | 032U3610 |          |          |  |
|            | 10      | 1.50     | EPDM     | 032U3611 |          |          |  |
|            |         |          | FKM      | 032U3612 |          |          |  |
|            | 15      | 2.50     | FKM      | 032U3614 |          |          |  |
|            | 8       | 1.00     | EPDM     | 032U3615 |          |          |  |
|            |         |          | FKM      | 032U3616 |          |          |  |
| G 1/2      | 10      | 1.50     | EPDM     | 032U3617 |          |          |  |
|            |         |          | FKM      | 032U3618 |          |          |  |
|            | 15      | 2.85     | EPDM     | 032U3619 |          |          |  |
|            |         |          | FKM      | 032U3620 |          |          |  |
| G 3/4      | 20      | 4.50     | EPDM     | 032U3621 |          |          |  |
|            |         |          | FKM      | 032U3622 |          |          |  |
| G 1        | 25      | 8        | EPDM     | 032U3623 |          |          |  |
|            |         |          | FKM      | 032U3624 |          |          |  |



## **5.2 Accessories**

### Coils

Table 10: Below coils can be used for EV210B

| Coil   | Туре              | Power consumption            | Enclosure                    | Features   |
|--|-------------------|------------------------------|------------------------------|--|
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| And the second s   | BB/BY, clip on    | 11 - 16 W AC<br>14 - 16 W DC | IP00<br>with spade connector | IP20 with protective cap<br>IP67 with cable plug                                   |
| A second   | BR, clip on       | 12 - 14 W AC<br>16 W DC      | IP00<br>with spade connector | IP20 with protective cap,<br>IP67 with cable plug<br>Design for marine application |
|  | BE, clip on       | 11 - 17 W AC<br>15 - 16 W DC | IP67                         | With terminal box  |
| 33   | BG, clip on       | 11 - 16 W AC<br>16 - 20 W DC | IP67                         | With terminal box  |

# Cable plug

Figure 12: Cable plug



Table 11: Cable plug

| Cable plug size | Description     | Code no  |
|-----------------|-----------------|----------|
| DIN 18          | Cable plug IP67 | 042N1256 |

### **Timer**

Universal electronic multi-timer, Type ET20M



Figure 13: ET20M



Table 12: Timer

| Туре   | Voltage<br>[V] | Suitable for coil types    | Code no. |
|--------|----------------|----------------------------|----------|
| BA024A | 24 – 240       | AL, AM, AS, AZ, BA, BD, BB | 042N0185 |

## Mounting bracket

For EV210B/BW 1.5 – 4.5B in connection with synthetic tubes, pipes and similar.

Figure 14: Mounting bracket

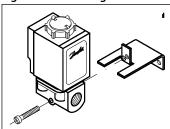


Table 13: Bracket

| Description | Code no. |
|-------------|----------|
| Brackets    | 032U1040 |

## Isolating diaphragm kit for EV210B 1.5 – 4.5 NC

Avoids build-up of contaminates that can block movement of the armature. Permits use of more aggressive media that would normally attack the armature. Gel filled; guarantees operation after long periods of inactivity. The kit is suitable for orifice sizes up to DN 4.5 mm.

Table 14: Isolating diaphragm kit

| Seal material | Media temperature [C°] | Code no. |
|---------------|------------------------|----------|
| EPDM          | -20 - 50               | 042U1009 |
| FKM           | 0 - 50                 | 042U1010 |

#### The kit consist of:

Assembled isolating unit O-ring 4 screws Locking button Nut for coil



Figure 15: Isolating diaphragm kit



### Spare parts kit, NC

Table 15: Spare parts

| The second part of the second pa |               |          |
|--|---------------|----------|
| Valve type   | Seal material | Code no. |
| EV210B 1.5, 2, 3, 4.5  | FKM           | 032U2003 |
|  | EPDM          | 032U6000 |
| EV210B 6, 8, 10  | FKM           | 032U2011 |
|  | EPDM          | 032U2006 |
| EV210B 15  | FKM           | 032U2012 |
|  | EPDM          | 032U2013 |
| EV210B 20  | FKM           | 032U2014 |
|  | EPDM          | 032U2017 |
| EV210B 25  | FKM           | 032U2018 |
|  | EPDM          | 032U2019 |

### The spare parts kit consists of:

Locking button Nut for the coil Armature with valve plate and spring O-ring

Figure 16: Spare part kit



## Spare parts kit, NO

Table 16: Spare parts

| Valve type            | Seal material | Code no. |
|-----------------------|---------------|----------|
| EV210B 1.5, 2, 3, 4.5 | FKM           | 032U2004 |
|                       | EPDM          | 032U2005 |

The spare parts kit consists of: Armature tube 2 O-rings



Figure 17: Spare part kit





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