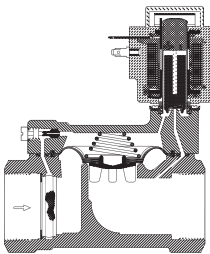


## EV220B 15-50 Normally Closed/ Normally open (NC/NO)

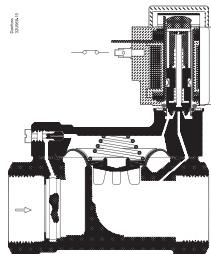
### Types

Type EV220B 15, 20, 25, 32, 40, 50 B  
Normally Closed (NC)  
Type EV220B 15, 20, 25, 32, 40, 50 B  
Normally Open (NO)  
Type EV220B 15, 20, 25, 32, 40, 50 BD  
Normally Closed (NC)  
Type EV220B 15, 20, 25, 32, 40, 50 SS  
Normally Closed (NC)

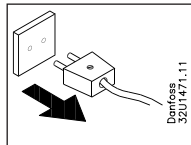
#### NC



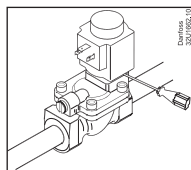
#### NO



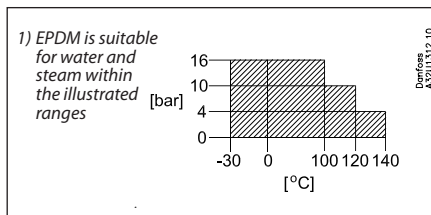
### Coil replacement



1. Before removing the coil, voltage must be disconnected, otherwise the coil will burn out.



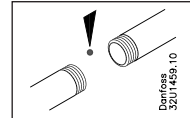
2. Use a screwdriver to lever the coil from the armature.



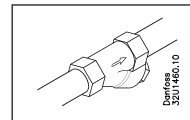
### Media temperature

| Gasket materials | Media                    | Temperature  |
|------------------|--------------------------|--------------|
| EPDM             | Water / stream           | See Note 1)  |
| NBR              | Oil, water and air       | -10°C → 90°C |
| FKM              | Oil / inert gas incl air | 0°C → 100°C  |

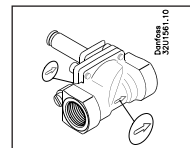
### Mounting the valve



1. Clean the pipe system before mounting the valve

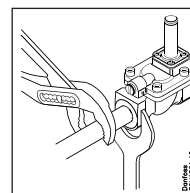
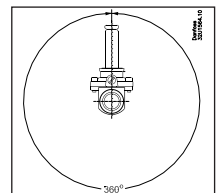
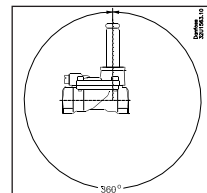


2. Mount filter in front of the valve if there are impurities in media.



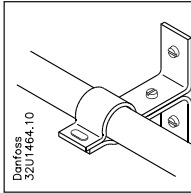
3. The arrow cast on the body and cover must point in the direction of the flow.

4. Mount the valve as shown in the pictures. The valve can be mounted with a max. angle of 360° from upright position.



5. Use counterforce when tightening up pipe connections, i.e. use a spanner on both the valve body as well as on the pipe connector.

To be continued on page 2



6. The pipes on both sides of the valve must be securely fastened, securely fastened.

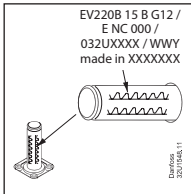


7. Test the system.

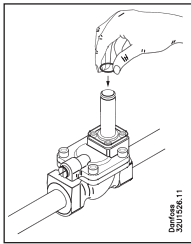
### Mounting the coil

#### 1. Warning

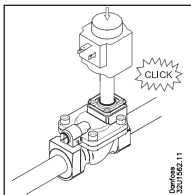
Never switch on power to the coil when the coil is dismounted from the valve. Otherwise the coil may be damaged and there is risk of injuries and burns.



2. Valve identification



3. Mount the O-ring.



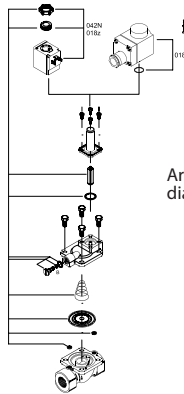
4. Mount the coil on the valve. The coil must **CLICK** in order to be positioned correctly.

### Safe working pressure

| Types                            | Pressure |
|----------------------------------|----------|
| EV220B 15 and 20 (NC/NO)         | 16 bar   |
| EV220B 25, 32, 40 and 50 (NC/NO) |          |

### Spare parts kit

Normally closed valves (NC)



Armature, O-rings, spring, diaphragm

### Brass versions

| Valve type | Seal material | Code no.                     |
|------------|---------------|------------------------------|
| EV220B 15  | EPDM          | <b>032U1071<sup>1)</sup></b> |
|            | FKM           | <b>032U1072</b>              |
|            | NBR           | <b>032U6013</b>              |
| EV220B 20  | EPDM          | <b>032U1073<sup>1)</sup></b> |
|            | FKM           | <b>032U1074</b>              |
|            | NBR           | <b>032U6014</b>              |
| EV220B 25  | EPDM          | <b>032U1075<sup>1)</sup></b> |
|            | FKM           | <b>032U1076</b>              |
|            | NBR           | <b>032U6015</b>              |
| EV220B 32  | EPDM          | <b>032U1077<sup>1)</sup></b> |
|            | FKM           | <b>032U1078</b>              |
|            | NBR           | <b>032U6016</b>              |
| EV220B 40  | EPDM          | <b>032U1079<sup>1)</sup></b> |
|            | FKM           | <b>032U1080</b>              |
|            | NBR           | <b>032U6017</b>              |
| EV220B 50  | EPDM          | <b>032U1081<sup>1)</sup></b> |
|            | FKM           | <b>032U1082</b>              |
|            | NBR           | <b>032U6018</b>              |

### DZR brass and stainless steel versions

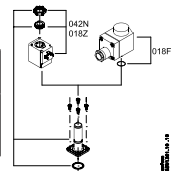
| Valve type | Seal material | Code no.                     |
|------------|---------------|------------------------------|
| EV220B 15  | EPDM          | <b>032U6320<sup>1)</sup></b> |
|            | FKM           | <b>032U6326</b>              |
| EV220B 20  | EPDM          | <b>032U6321<sup>1)</sup></b> |
|            | FKM           | <b>032U6327</b>              |
| EV220B 25  | EPDM          | <b>032U6322<sup>1)</sup></b> |
|            | FKM           | <b>032U6328</b>              |
| EV220B 32  | EPDM          | <b>032U6323<sup>1)</sup></b> |
|            | FKM           | <b>032U6329</b>              |
| EV220B 40  | EPDM          | <b>032U6324<sup>1)</sup></b> |
|            | FKM           | <b>032U6330</b>              |
| EV220B 50  | EPDM          | <b>032U6325<sup>1)</sup></b> |
|            | FKM           | <b>032U6331</b>              |

<sup>1)</sup> Approved by WRAS

### Spare parts kit

Normally open valves (NO)

| Valve type     | Seal material | Code no.        |
|----------------|---------------|-----------------|
| EV220B 15 - 50 | EPDM          | <b>032U0296</b> |
|                | FKM           | <b>032U0295</b> |
|                | NBR           | <b>032U0299</b> |



## EV220B 15-50

### Stromlos geschlossen / Stromlos geöffnet (NC/NO)

#### Ausführungen

Typ EV220B 15, 20, 25, 32, 40, 50 B

Stromlos geschlossen (NC)

Typ EV220B 15, 20, 25, 32, 40, 50 B

Stromlos geöffnet (NO)

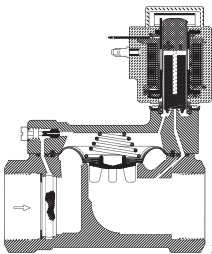
Typ EV220B 15, 20, 25, 32, 40, 50 BD

Stromlos geschlossen (NC)

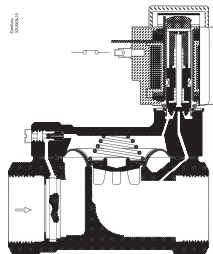
Typ EV220B 15, 20, 25, 32, 40, 50 SS

Stromlos geschlossen (NC)

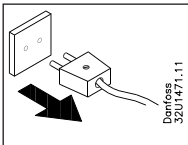
#### NC



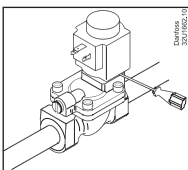
#### NO



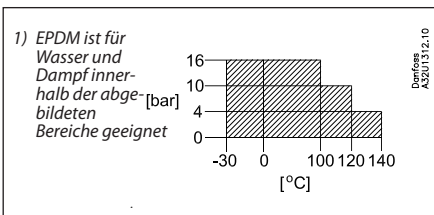
#### Austausch der Spulen



1. Vor dem Entfernen der Spule muss die Spannung getrennt werden, andernfalls brennt die Spule durch.



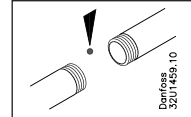
2. Die Spule wird mit einem Schraubendreher vom Anker gehoben.



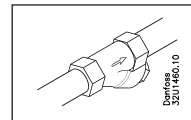
#### Medientemperatur

| Dichtungswerkstoffe | Medien                | Temperatur       |
|---------------------|-----------------------|------------------|
| EPDM                | Wasser/Dampf          | Siehe Fußnote 1) |
| NBR                 | Öl, Wasser und Luft   | -10°C → 90°C     |
| FKM                 | Öl/neutrale Gase/Luft | 0°C → 100°C      |

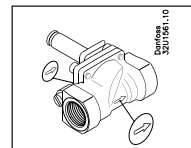
#### Montage des Ventils



1. Vor der Montage des Ventils müssen die Rohrleitungen gereinigt werden.

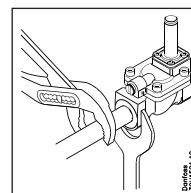
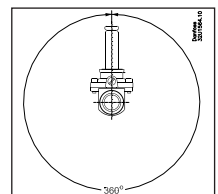
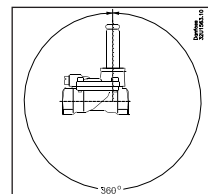


2. Bauen Sie einen Filter vor dem Ventil ein, wenn Verunreinigungen in den Medien vorhanden sind



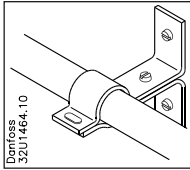
3. Der auf Ventilgehäuse und Deckel eingegossene Pfeil muss in Strömungsrichtung weisen.

4. Bauen Sie das Ventil ein, wie in Abbildungen gezeigt. Das Ventil kann mit einem Winkel von 360° von der Senkrechten eingebaut werden.



5. Verwenden Sie beim Festziehen der Rohrverbindungen eine Gegenkraft, d. h. setzen Sie einen Schraubenschlüssel sowohl am Ventilgehäuse als auch am Rohranschlussstutzen an.

Fortsetzung auf Seite 4



6. Die Rohre auf beiden Seiten des Ventils müssen gut befestigt sein.

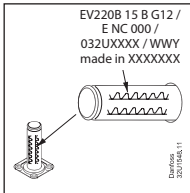


7. Testen Sie das System.

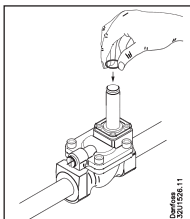
### Befestigung der Spule

#### 1. Warnung

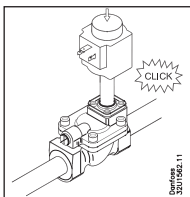
Schalten Sie die Stromversorgung der Spule niemals ein, wenn die Spule vom Ventil abgenommen ist. Andernfalls kann die Spule beschädigt werden; zudem besteht die Gefahr von Verletzungen und Verbrennungen.



2. Identifizierung des Ventils.



3. Befestigen Sie den O-Ring.



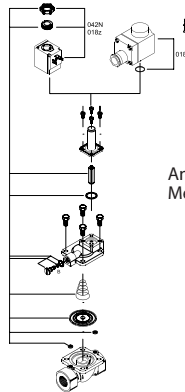
4. Befestigen Sie die Spule am Ventil. Wenn die Spule richtig positioniert ist, muss sie mit einem Klickgeräusch einrasten.

### Sicherer Arbeitsdruck

| Ausführungen   | Druck  |
|--|--------|
| EV220B 15 und 20 (stromlos geschlossen/stromlos geöffnet)<br>EV220B 25, 32, 40 und 50 (stromlos geschlossen/stromlos geöffnet) | 16 bar |

### Ersatzteilsatz

Stromlos geschlossene Ventile (NC)



Anker, O-Ringe, Feder, Membrane

### Messingausführungen

| Ventiltyp | Dichtungswerkstoff | Best.-Nr.              |
|-----------|--------------------|------------------------|
| EV220B 15 | EPDM               | 032U1071 <sup>1)</sup> |
|           | FKM                | 032U1072               |
|           | NBR                | 032U6013               |
| EV220B 20 | EPDM               | 032U1073 <sup>1)</sup> |
|           | FKM                | 032U1074               |
|           | NBR                | 032U6014               |
| EV220B 25 | EPDM               | 032U1075 <sup>1)</sup> |
|           | FKM                | 032U1076               |
|           | NBR                | 032U6015               |
| EV220B 32 | EPDM               | 032U1077 <sup>1)</sup> |
|           | FKM                | 032U1078               |
|           | NBR                | 032U6016               |
| EV220B 40 | EPDM               | 032U1079 <sup>1)</sup> |
|           | FKM                | 032U1080               |
|           | NBR                | 032U6017               |
| EV220B 50 | EPDM               | 032U1081 <sup>1)</sup> |
|           | FKM                | 032U1082               |
|           | NBR                | 032U6018               |

### Ausführungen aus entzinkungsfreiem Messing und Edelstahl

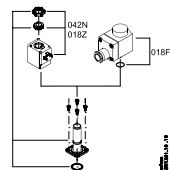
| Ventiltyp | Dichtungswerkstoff | Best.-Nr.              |
|-----------|--------------------|------------------------|
| EV220B 15 | EPDM               | 032U6320 <sup>1)</sup> |
|           | FKM                | 032U6326               |
| EV220B 20 | EPDM               | 032U6321 <sup>1)</sup> |
|           | FKM                | 032U6327               |
| EV220B 25 | EPDM               | 032U6322 <sup>1)</sup> |
|           | FKM                | 032U6328               |
| EV220B 32 | EPDM               | 032U6323 <sup>1)</sup> |
|           | FKM                | 032U6329               |
| EV220B 40 | EPDM               | 032U6324 <sup>1)</sup> |
|           | FKM                | 032U6330               |
| EV220B 50 | EPDM               | 032U6325 <sup>1)</sup> |
|           | FKM                | 032U6331               |

<sup>1)</sup> WRAS zulassung

### Ersatzteilsatz

Stromlos geöffnete Ventile (NO)

| Ventiltyp      | Dichtungswerkstoff | Best.-Nr. |
|----------------|--------------------|-----------|
| EV220B 15 - 50 | EPDM               | 032U0296  |
|                | FKM                | 032U0295  |
|                | NBR                | 032U0299  |



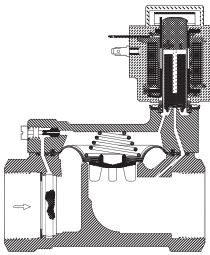
## EV220B 15-50

### Normalement fermée/normalement ouverte (NF/NO)

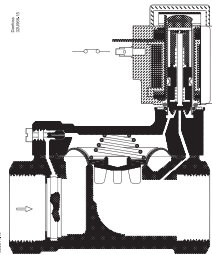
#### Types

Type EV220B 15, 20, 25, 32, 40, 50 B  
normalement fermée (NF)  
Type EV220B 15, 20, 25, 32, 40, 50 B  
normalement ouverte (NO)  
Type EV220B 15, 20, 25, 32, 40, 50 BD  
normalement fermée (NF)  
Type EV220B 15, 20, 25, 32, 40, 50 SS  
normalement fermée (NF)

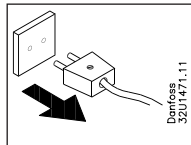
#### NC



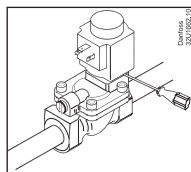
#### NO



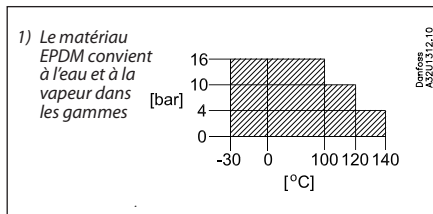
#### Remplacement de la bobine



1. Avant de retirer la bobine, la mettre hors tension pour éviter qu'elle ne grille.



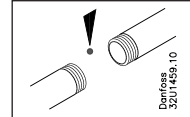
2. Utiliser un tournevis pour extraire la bobine de l'induit.



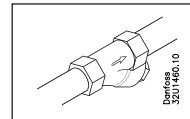
#### Température du fluide

| Matériaux du joint | Fluide                    | Température  |
|--------------------|---------------------------|--------------|
| EPDM               | Eau/vapeur                | Voir note 1) |
| NBR                | Huile, eau et air         | -10°C → 90°C |
| FKM                | Huile/gaz inerte dont air | 0°C → 100°C  |

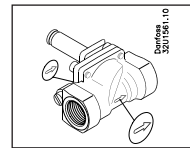
#### Montage de la vanne



1. Nettoyer le système de tuyaux avant de monter la vanne.

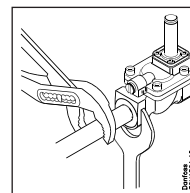
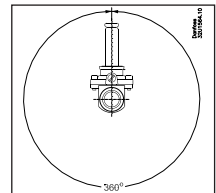
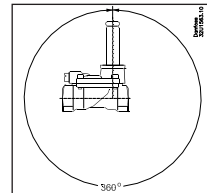


2. Monter un filtre devant la vanne en cas d'impuretés dans le fluide.



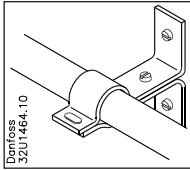
3. La flèche présente sur le corps et le couvercle doit être orientée dans le sens du débit.

4. Monter la vanne comme indiqué sur les figures. La vanne peut être installée à un angle de 360° par rapport à la position verticale.



5. Toujours utiliser un contrepoids lors du serrage des raccords. Utiliser par exemple une clé tricoise sur le corps de vanne et le raccord de tuyau.

Suite en page 6



6. Les tuyaux des deux côtés de la vanne doivent être correctement fixés.

**!** Pression d'essai  
MAX. 25 bar

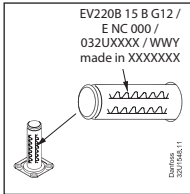
**Warning**

7. Tester le système.

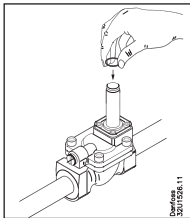
## Montage de la bobine

### 1. Attention

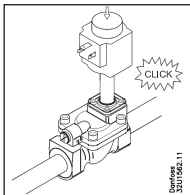
Ne jamais appliquer de tension à la bobine lorsque celle-ci est démontée de la vanne. Dans le cas contraire, la bobine peut être endommagée et il existe un risque de blessures et de brûlures.



2 Identification de la valve.



3. Monter le joint torique



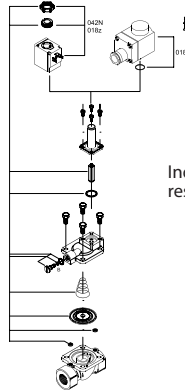
4. Monter la bobine sur la vanne. Un CLIC signale que la bobine est bien positionnée.

## Pression de service sûre

| Types                           | Pression |
|---------------------------------|----------|
| EV220B 15 et 20 (NC/NO)         | 16 bar   |
| EV220B 25, 32, 40 et 50 (NC/NO) |          |

## Kit de pièces de rechange

Vannes normalement fermées (NF)



Induit, joints toriques, ressort, membrane

## Versions en laiton

| Type de vanne | Matériau d'étanchéité | N° de code             |
|---------------|-----------------------|------------------------|
| EV220B 15     | EPDM                  | 032U1071 <sup>1)</sup> |
|               | FKM                   | 032U1072               |
|               | NBR                   | 032U6013               |
| EV220B 20     | EPDM                  | 032U1073 <sup>1)</sup> |
|               | FKM                   | 032U1074               |
|               | NBR                   | 032U6014               |
| EV220B 25     | EPDM                  | 032U1075 <sup>1)</sup> |
|               | FKM                   | 032U1076               |
|               | NBR                   | 032U6015               |
| EV220B 32     | EPDM                  | 032U1077 <sup>1)</sup> |
|               | FKM                   | 032U1078               |
|               | NBR                   | 032U6016               |
| EV220B 40     | EPDM                  | 032U1079 <sup>1)</sup> |
|               | FKM                   | 032U1080               |
|               | NBR                   | 032U6017               |
| EV220B 50     | EPDM                  | 032U1081 <sup>1)</sup> |
|               | FKM                   | 032U1082               |
|               | NBR                   | 032U6018               |

## DZR brass and stainless steel versions

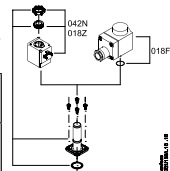
| Type de vanne | Matériau d'étanchéité | N° de code             |
|---------------|-----------------------|------------------------|
| EV220B 15     | EPDM                  | 032U6320 <sup>1)</sup> |
|               | FKM                   | 032U6326               |
| EV220B 20     | EPDM                  | 032U6321 <sup>1)</sup> |
|               | FKM                   | 032U6327               |
| EV220B 25     | EPDM                  | 032U6322 <sup>1)</sup> |
|               | FKM                   | 032U6328               |
| EV220B 32     | EPDM                  | 032U6323 <sup>1)</sup> |
|               | FKM                   | 032U6329               |
| EV220B 40     | EPDM                  | 032U6324 <sup>1)</sup> |
|               | FKM                   | 032U6330               |
| EV220B 50     | EPDM                  | 032U6325 <sup>1)</sup> |
|               | FKM                   | 032U6331               |

<sup>1)</sup> Homologation WRAS

## Kit de pièces de rechange

Vannes normalement fermées (NO)

| Type de vanne  | Matériau d'étanchéité | N° de code |
|----------------|-----------------------|------------|
| EV220B 15 - 50 | EPDM                  | 032U0296   |
|                | FKM                   | 032U0295   |
|                | NBR                   | 032U0299   |





VA 1.52/18830

Danfoss ventil typer: EV210B 1,5B, EV210B 3 B, EV220B -6B, -10B, -12B, -15B, -18B og -20B



VA 1.52/18831

Danfoss ventil typer: EV 220A 6, 10, 12, 14, 18 og 22



VA 1.52/18830

Danfoss valve types: EV210B 1,5B, EV210B 3 B, EV220B -6B, -10B, -12B, -15B, -18B and -20B



VA 1.52/18831

Danfoss valve types: EV 220A 6, 10, 12, 14, 18 and 22



VA 1.52/18830

Danfoss Ventiltypen: EV210B 1,5B, EV210B 3 B, EV220B -6B, -10B, -12B, -15B, -18B und -20B



VA 1.52/18831

Danfoss Ventiltypen: EV 220A 6, 10, 12, 14, 18 und 22



VA 1.52/18830

Danfoss types de vannes: EV210B 1,5B, EV210B 3 B, EV220B -6B, -10B, -12B, -15B, -18B et -20B



VA 1.52/18831

Danfoss types de vannes: EV 220A 6, 10, 12, 14, 18 et 22

