Instruction

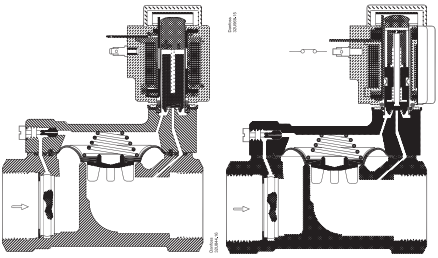
032R9346

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

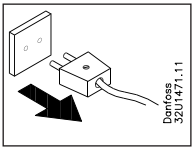
Types

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)

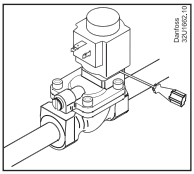
NC **NO**



Coil replacement

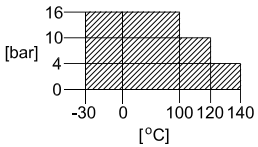


1. Before removing the coil, voltage must be disconnected, otherwise the coil will burn out.



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

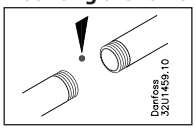
1) EPDM is suitable for water and steam within the illustrated ranges



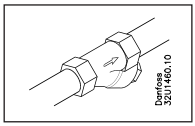
Media temperature

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

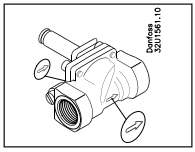
Mounting the valve



1. Clean the pipe system before mounting the valve

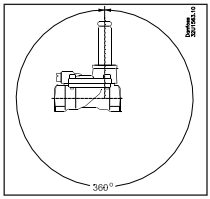


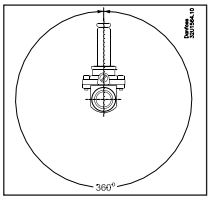
2. Mount filter in front of the valve if there are impurities in media.

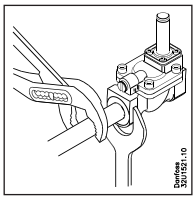


3. The arrow cast on the body and cover must point in the direction of the flow.

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

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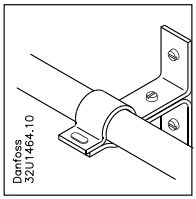


6. The pipes on both sides of the valve must be securely fastened. securely fastened.

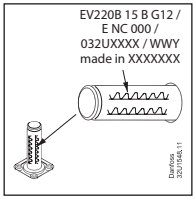
7. Test the system.

! Test pressure MAX. 25 bar

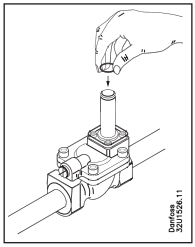
Warning

Mounting the coil

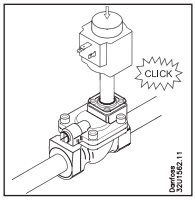
1. **Warning**
   Never switch on power to the coil when the coil is dismounted from the valve. Otherwise the coil may be damaged and there is risk of injuries and burns.



2. Valve identification



3. Mount the O-ring.



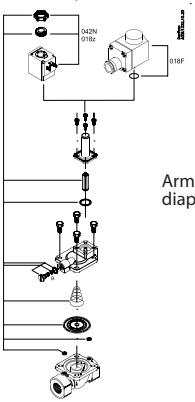
4. Mount the coil on the valve.
   The coil must CLICK in order to be positioned correctly.

Safe working pressure

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

Spare parts kit

Normally closed valves (NC)



Armature, O-rings, spring, diaphragm

Brass versions

Valve type	Seal material	Code no.
EV220B 15	EPDM FKM NBR	**032U1071**[1)] **032U1072** **032U6013**
EV220B 20	EPDM FKM NBR	**032U1073**[1)] **032U1074** **032U6014**
EV220B 25	EPDM FKM NBR	**032U1075**[1)] **032U1076** **032U6015**
EV220B 32	EPDM FKM NBR	**032U1077**[1)] **032U1078** **032U6016**
EV220B 40	EPDM FKM NBR	**032U1079**[1)] **032U1080** **032U6017**
EV220B 50	EPDM FKM NBR	**032U1081**[1)] **032U1082** **032U6018**

DZR brass and stainless steel versions

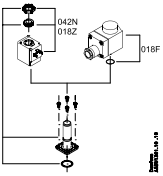
Valve type	Seal material	Code no.
EV220B 15	EPDM FKM	**032U6320**[1)] **032U6326**
EV220B 20	EPDM FKM	**032U6321**[1)] **032U6327**
EV220B 25	EPDM FKM	**032U6322**[1)] **032U6328**
EV220B 32	EPDM FKM	**032U6323**[1)] **032U6329**
EV220B 40	EPDM FKM	**032U6324**[1)] **032U6330**
EV220B 50	EPDM FKM	**032U6325**[1)] **032U6331**

[1)] Approved by WRAS

Spare parts kit

Normally open valves (NO)

Valve type	Seal material	Code no.
EV220B 15 - 50	EPDM FKM NBR	**032U0296** **032U0295** **032U0299**



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Instruction

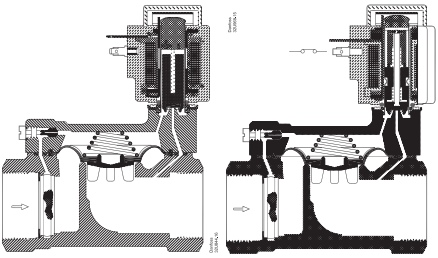
032R9346

EV220B 15-5O
Stromlos geschlossen / Stromlos geöffnet (NC/NO)

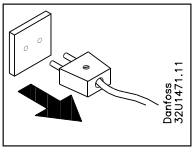
Ausführungen

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)

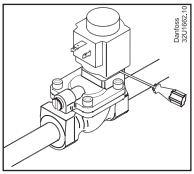
NC **NO**



Austausch der Spulen

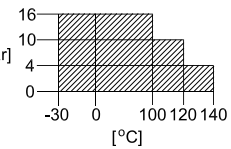


1. Vor dem Entfernen der Spule muss die Spannung getrennt werden, andernfalls brennt die Spule durch.



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

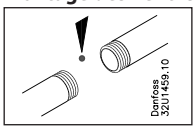
1) EPDM ist für Wasser und Dampf innerhalb der abgebildeten Bereiche geeignet



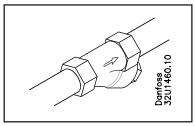
Medientemperatur

Dichtungs-werkstoffe	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

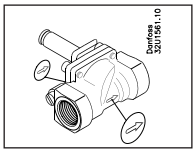
Montage des Ventils



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

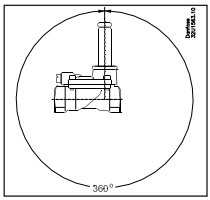


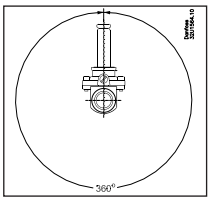
2. Bauen Sie einen Filter vor dem Ventil ein, wenn Verunreinigungen in den Medien vorhanden sind

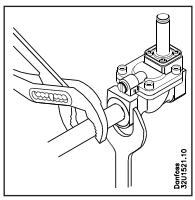


3. Der auf Ventilgehäuse und Deckel eingegossene Pfeil muss in Strömungsrichtung weisen.

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

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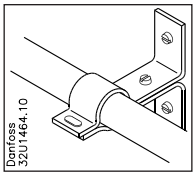
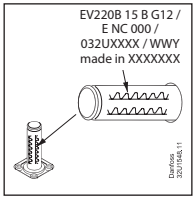


6. Die Rohre auf beiden Seiten des Ventils müssen gut befestigt sein.

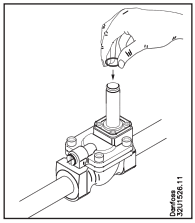
7. Testen Sie das System.

Befestigung der Spule

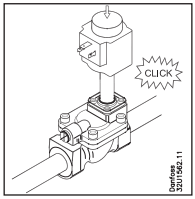
1. Warnung
   Schalten Sie die Stromversorgnung der Spule niemals ein, wenn die Spule vom Ventil abgenommen ist. Andernfalls kann die Spule beschädigt werden; zudem besteht die Gefahr von Verletzungen und Verbrennungen.



2. Identifizierung des Ventils.



3. Befestigen Sie den O-Ring.



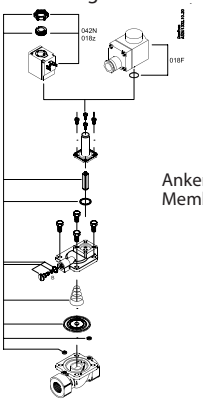
4. Befestigen Sie die Spule am Ventil. Wenn die Spule richtig positioniert ist, muss sie mit einem Klickgeräusch einrasten.

Sicherer Arbeitsdruck

Ausführungen	Druck
EV220B 15 und 20 (stromlos geschlossen/stromlos geöffnet) 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 FKM NBR	**032U1071**[1)] **032U1072** **032U6013**
EV220B 20	EPDM FKM NBR	**032U1073**[1)] **032U1074** **032U6014**
EV220B 25	EPDM FKM NBR	**032U1075**[1)] **032U1076** **032U6015**
EV220B 32	EPDM FKM NBR	**032U1077**[1)] **032U1078** **032U6016**
EV220B 40	EPDM FKM NBR	**032U1079**[1)] **032U1080** **032U6017**
EV220B 50	EPDM FKM NBR	**032U1081**[1)] **032U1082** **032U6018**

Ausführungen aus entzinkungsfreiem Messing und Edelstahl

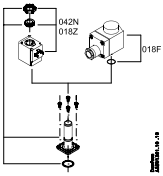
Ventiltyp	Dichtungswerkstoff	Best.-Nr.
EV220B 15	EPDM FKM	**032U6320**[1)] **032U6326**
EV220B 20	EPDM FKM	**032U6321**[1)] **032U6327**
EV220B 25	EPDM FKM	**032U6322**[1)] **032U6328**
EV220B 32	EPDM FKM	**032U6323**[1)] **032U6329**
EV220B 40	EPDM FKM	**032U6324**[1)] **032U6330**
EV220B 50	EPDM FKM	**032U6325**[1)] **032U6331**

[1)] WRAS zulassung

Ersatzteilsatz

Stromlos geöffnete Ventile (NO)

Ventil-typ	Dichtungs-werkstoff	Best.-Nr.
EV220B 15 - 50	EPDM FKM NBR	**032U0296** **032U0295** **032U0299**



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Instruction

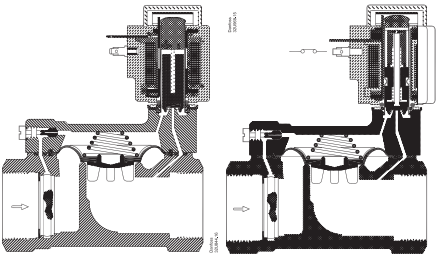
032R9346

EV220B 15-50
Normalement fermée/normalement ouverte (NF/NO)

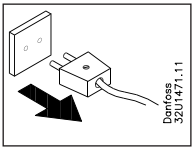
Types

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)

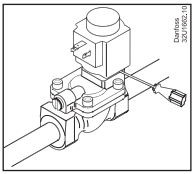
NC **NO**



Remplacement de la bobine

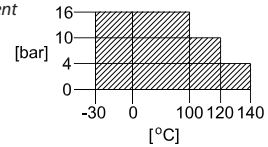


1. Avant de retirer la bobine, la mettre hors tension pour éviter qu'elle ne grille.



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

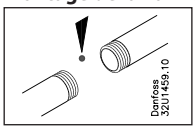
1) Le matériau EPDM convient à l'eau et à la vapeur dans les gammes



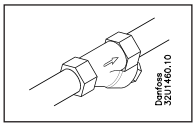
Température du fluide

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

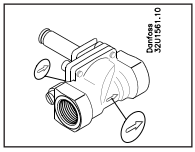
Montage de la vanne



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

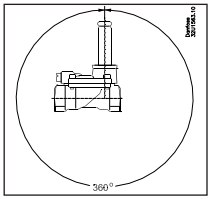


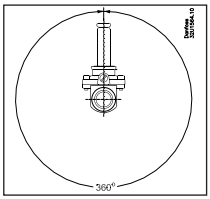
2. Monter un filtre devant la vanne en cas d'impuretés dans le fluide.

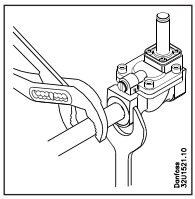


3. La flèche présente sur le corps et le couvercle doit être orientée dans le sens du débit.

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

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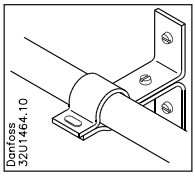
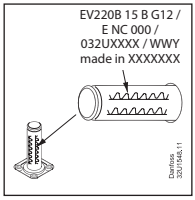


6. Les tuyaux des deux côtés de la vanne doivent être correctement fixés.

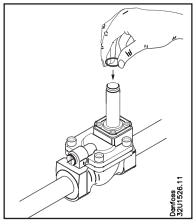
7. Tester le système.

Montage de la bobine

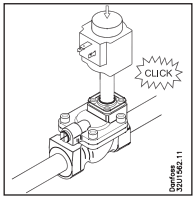
1. **Attention**
   Ne jamais appliquer de tension à la bobine lorsque celle-ci est démontée de la vanne. Dans le cas contraire, la bobine peut être endommagée et il existe un risque de blessures et de brûlures.



2 Identification de la valve.



3. Monter le joint torique

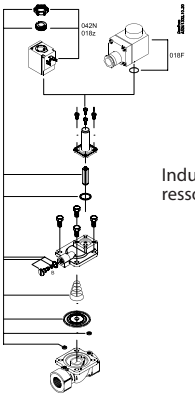


4. Monter la bobine sur la vanne. Un CLIC signale que la bobine est bien positionnée.

Pression de service sûre

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

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 FKM NBR	**032U1071**[1)] **032U1072** **032U6013**
EV220B 20	EPDM FKM NBR	**032U1073**[1)] **032U1074** **032U6014**
EV220B 25	EPDM FKM NBR	**032U1075**[1)] **032U1076** **032U6015**
EV220B 32	EPDM FKM NBR	**032U1077**[1)] **032U1078** **032U6016**
EV220B 40	EPDM FKM NBR	**032U1079**[1)] **032U1080** **032U6017**
EV220B 50	EPDM FKM NBR	**032U1081**[1)] **032U1082** **032U6018**

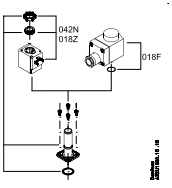
DZR brass and stainless steel versions

Type de vanne	Matériau d'étanchéité	N° de code
EV220B 15	EPDM FKM	**032U6320**[1)] **032U6326**
EV220B 20	EPDM FKM	**032U6321**[1)] **032U6327**
EV220B 25	EPDM FKM	**032U6322**[1)] **032U6328**
EV220B 32	EPDM FKM	**032U6323**[1)] **032U6329**
EV220B 40	EPDM FKM	**032U6324**[1)] **032U6330**
EV220B 50	EPDM FKM	**032U6325**[1)] **032U6331**

[1)] Homologation WRAS

Kit de pièces de rechange
Vannes normalement fermées (NO)

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



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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

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