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1. GENERAL INSTRUCTION

Arc-Suppression Coils in the design with an Air Cushion are transported with the dehydrating breather dismantled, in order to prevent oil from penetrating into the dehydrating breather (deterioration of the dehydrating agent). Immediately when the transport to the long-term storage location or even to the destination is completed, it is necessary to carry out installation of the dehydrating breather.

These Special operating instructions are an extension of the General operating instructions and apply only to packaging/transport/storage/commissioning. All points of the General operating instructions which are not mentioned here remain unchanged.

2. PACKAGE AND TRANSPORT

2.1 TRANSPORT UNITS

The devices in the design with an Air Cushion are transported with the dehydrating breather dismantled and can be equipped with various types of dehydrating breathers. The particular make can be read out from the Business Technical Documentation.

Variant A - dehydrating breather of the type B according to DIN 42567: The dismantled dehydrating breather is packed in a cardboard box and placed on the cover of the Arc-Suppression Coil. Oil filling for dehydrating breather is transported in a separated container and after installation of dehydrating breather it shall be poured in the breather. The dehydrating breather pipe is provided with a Blind Flange (see Fig. 1)

Variant B - dehydrating breather of the type L according to DIN 42562, or possibly the maintenance-free dehydrating breather of the MTraB type and other (unspecified) types of dehydrating breathers. The dehydrating breather is placed in a transport box and is fully assembled. The oil filling for the dehydrating breather (only for the DIN 42562 type) is transported in a separate container and after installation of the dehydrating breather it must be poured into it. The dehydrating breather pipe is provided with a Blind Flange (see Fig. 2).

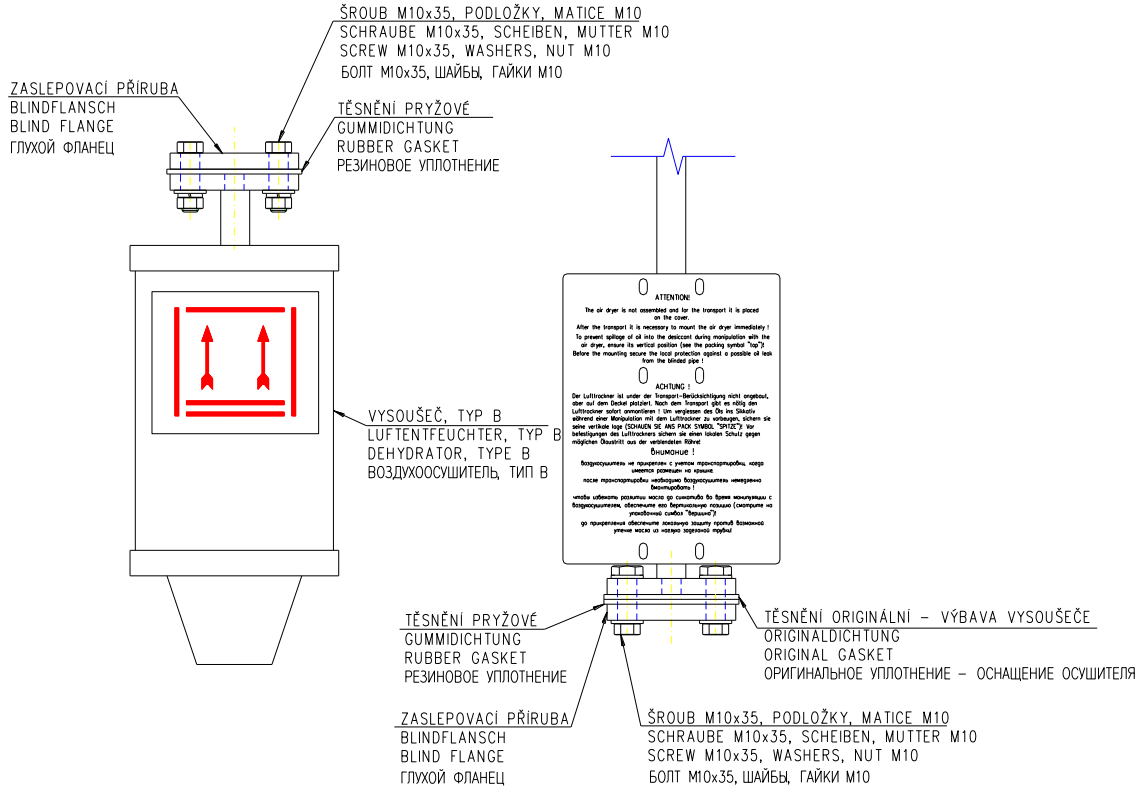


Fig.1. Assembly of sealed dehydrating breather (type B DIN42567) ready for transport, and sealed dehydrating breather pipe on the cover of the choke

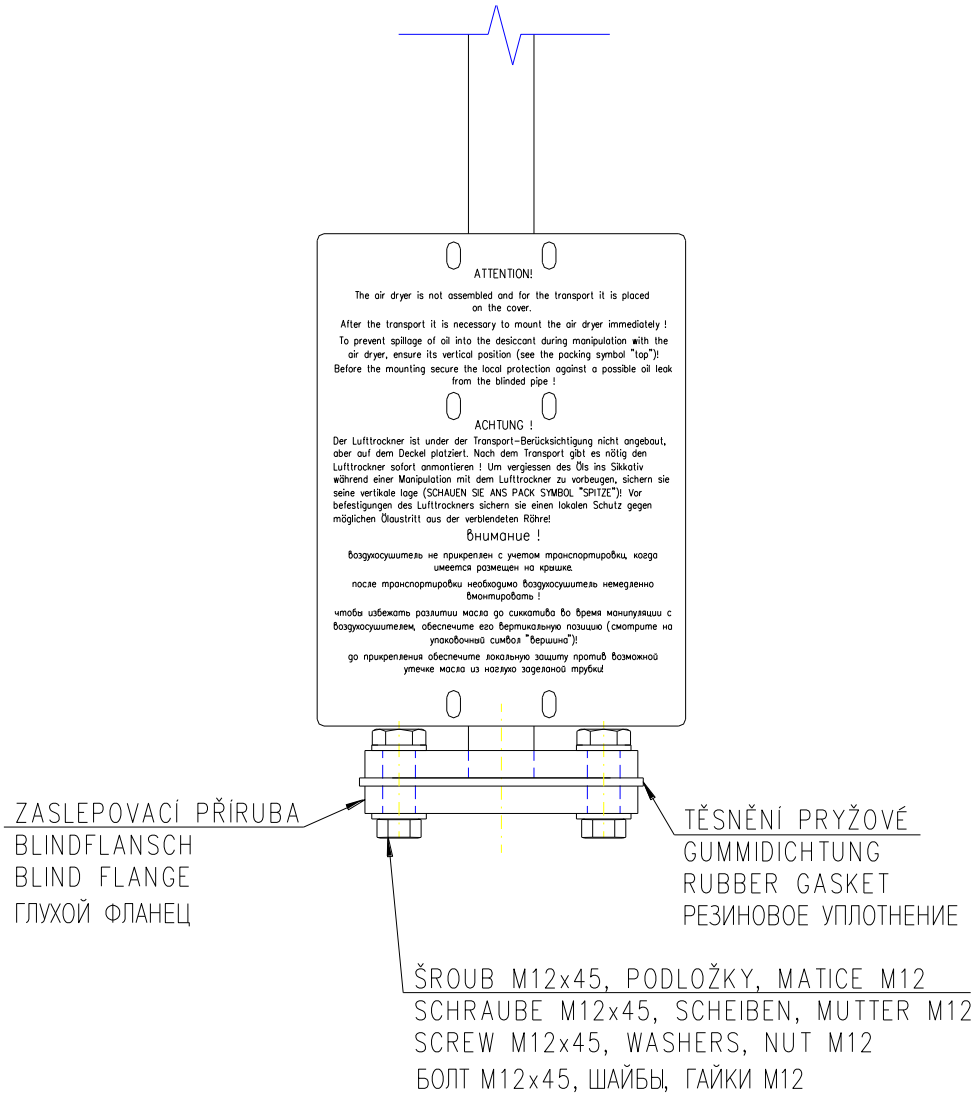


Fig.2 Assembly of sealed dehydrating breather pipe (type L DIN42562 or MTraB and other types) for transport

A transport warning plate with a text is placed on the blind pipe to the dehydrating breather. The warning text of the plate is delivered, on a standard basis, in the following language versions: English, German and Russian (see Figure 3).

ATTENTION!!!

The dehydrating breather is not assembled and for the transport it is placed on the cover or in the transport box. Immediate assembly after the transport and manipulation with dehydrating breather are necessary according to regulation ELA T0187 (placed in control box).

The leak of small amount of oil may occur during disassembly of blind plug from dehydrating breather pipe! Secure local protection!

ACHTUNG !!!

Der Luftentfeuchter ist für den Transport demontiert und befindet sich auf dem Deckel bzw. in einer Beipackkiste. Nach dem Transport und vor Inbetriebnahme der Spule ist der Luftentfeuchter unverzüglich gemäß Betriebsanweisung ELA T0187 (platziert im Schaltschrank) zu montieren.

Bei der Demontage des Blindflansches kann sich eine geringe Ölmenge im Rohr befinden. Schützen Sie bitte die Umwelt!

ВНИМАНИЕ !!!

Воздухоосушитель, находящийся на крышке бака реактора или транспортном ящике, не присоединен для безопасной транспортировки. После транспортировки необходимо сразу же произвести установку воздухоосушителя согласно технического предписания ELA T0187 (расположен в шкафу управлния).

Небольшое количество масла может вытечь из трубки при демонтаже заглушки фланца! Обеспечьте локальную защиту окружающей среды!

Fig. 3 Model of transport warning plate

2.2 PLACEMENT AND SECURING OF CARGO DURING TRANSPORT

We recommend you to place the device with the Air Cushion on the loading area of the means of transport in such a way that the blind air dehydrating breather pipe is placed in the rear area with regard to the drive direction (see Fig. 4).

The Arc-Suppression Coil is fixed according to the General operating instructions.

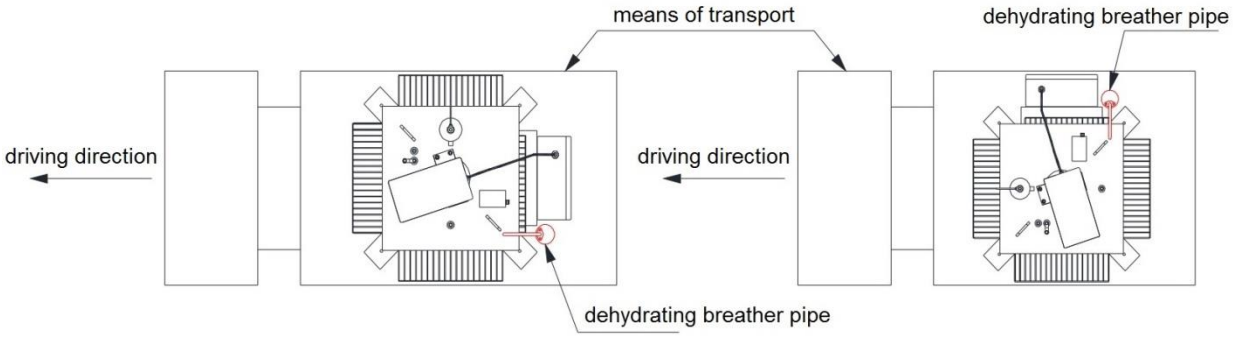


Fig. 4 Location of Arc-Suppression Coils on the loading area for transport

3. ON-SITE INSTALLATION/ STORAGE

The device with the Air Cushion is transported as a complete unit with the dehydrating breather dismantled.

On the finishing of transport and installation of the device in the destination place, or on placement for long-term storage it is necessary to proceed with an immediate assembly of the dehydrating breather.

The General operating instructions and the Operating Manual for the dehydrating breather in question remain valid for the points not mentioned herein.

3.1 PREPARATION BEFORE THE DEHYDRATING BREATHER INSTALLATION

Dismantle the Blind Flange from the dehydrating breather pipe before installation of the dehydrating breather supplied.

It is necessary to protect the dehydrating breather pipe against possible leakage of a small quantity of oil which the dehydrating breather pipe can contain after transport, by placing an impermeable container with a volume of at least 2l under the Blind Flange.

Dismantling of the Blind Flange from the dehydrating breather pipe:

Variant A - dehydrating breather of the type B according to DIN 42567

Dismantle the Blind Flange and the Rubber Gasket. Leave the Original Gasket (see Fig. 1) on the dehydrating breather pipe flange. The connection material will be further used for attachment of the dehydrating breather.

Variant B - dehydrating breather of the type L according to DIN 42562 or maintenance-free MTraB and other types of dehydrating breathers.

Dismantle the Blind Flange and the Rubber Gasket. The connection material will not be further used, please dispose of this material.

In case that the dehydrating breather pipe contained certain quantity of oil after transport, let this oil drip into the container prepared. Then wipe out the pipe until dry.

Dispose of the warning plate for transport, Blind Flange and Rubber Gasket, any dripped oil and other parts intended exclusively for transport according to the locally applicable regulations.

3.2 INSTALLATION OF THE DEHYDRATING BREATHER B DIN42567

Be careful while installing the dehydrating breather in order not to damage it.

In the first step, dismantle the dehydrating breather box from the machine cover, remove oil filling container, dehydrating breather and remove its blinding system (connection material, Blind Flange and Rubber Gasket). It is necessary to prevent oil spilling from the dehydrating breather – the dehydrating breather must be in a vertical position (see the corresponding symbol on the package of the dehydrating breather).

Perform installation of the dehydrating breather to the dehydrating breather pipe. Make the installation with the use of the M10x35 screws which were used for attachment of the Blind Flange of the dehydrating breather pipe. The necessary gasket is glued to the flange on the dehydrating breather pipe.

It is necessary to tighten the M10x35 screws on the dehydrating breather pipe in a symmetric way. The maximum torque is 30Nm.

After installation it is necessary to fill up oil into dehydrating breather. Through compression of the clip (Fig. 5, pos. 5) in the direction of arrows, release the container (pos. 4) and fill it with oil packed in the box up to a marked gauge line. Then fasten the container back to dehydrating breather and check a proper locking of the clip.

Dispose of the Blind Flange of the dehydrating breather, Rubber Gasket and unused connection material according to the locally applicable regulations.

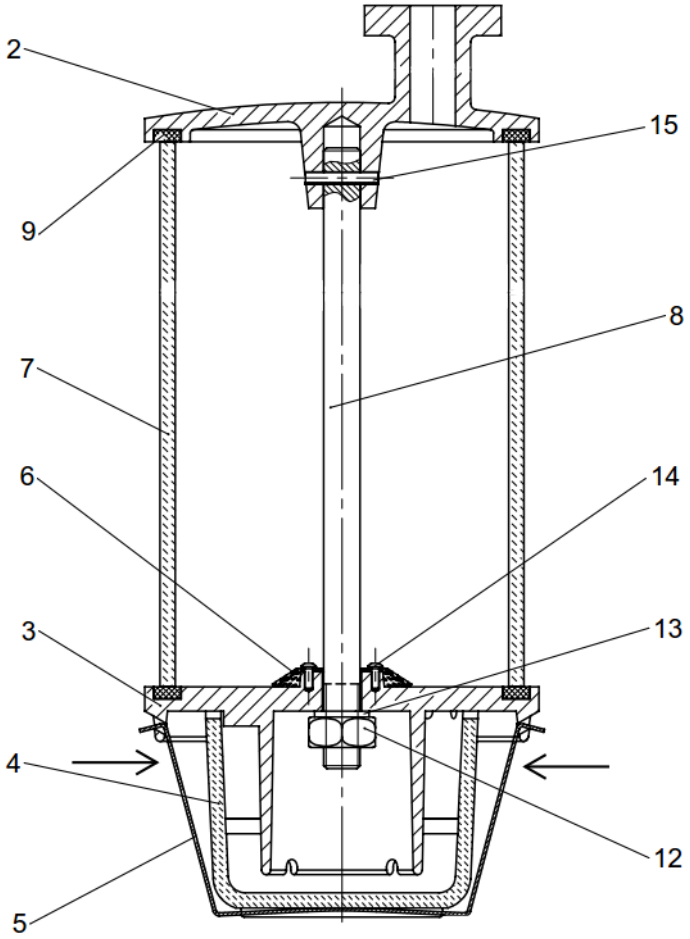


Fig. 5: Dehydrating breather B DIN 42567

3.3 INSTALLATION OF THE DEHYDRATING BREATHER L DIN42562

The L-type dehydrating breather is placed in the transport box in a cardboard package and is fully assembled. The oil filling for the dehydrating breather is placed in a separate container.

Be careful while installing the dehydrating breather in order not to damage it.

Individual parts of the dehydrating breather which are named below are marked in Fig. 5.

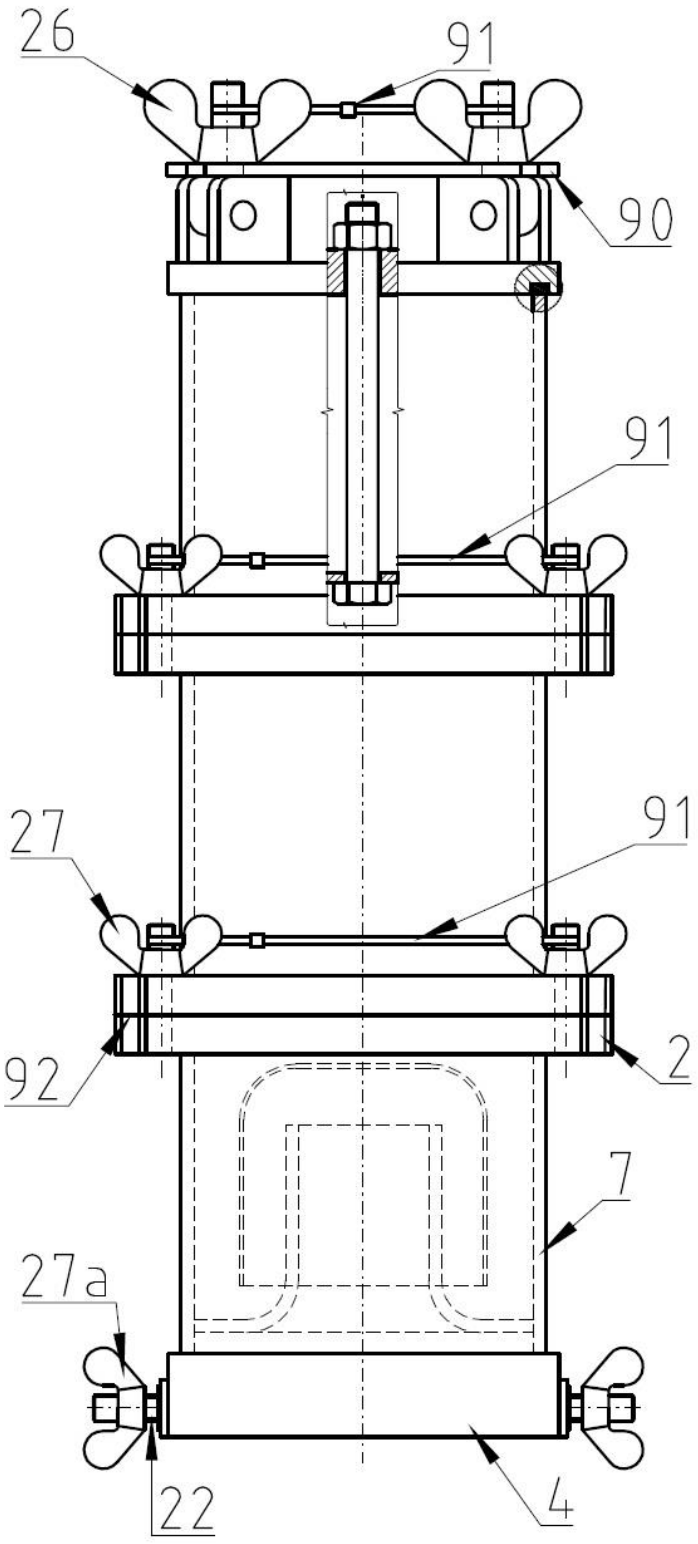


Fig. 6: Simplified illustration of ensuring dehydrating breather L DIN 42562 during transport

Remove the dehydrating breather from the cardboard box and place it on the bottom of the glass vessel, pos. 4 (vertical position)

Remove the binding tapes, pos. 91, from all parts of the dehydrating breather.

Dismantle the Blind Flange, pos. 90 – It is necessary to leave the Original Gasket (O-ring) on the dehydrating breather.

Perform installation of the dehydrating breather on the dehydrating breather flange pipe by using wing nuts (pos. 26).

Dismantle the glass container (pos. 7) by loosening three wing nuts, pos. 27, of the appropriate connection and remove protective foil (pos. 92).

Fill the glass container with oil which is contained in the can placed in the transport box, up to the gauge line marked out.

Perform the reassembly of the segment pos. 7.

If the holder for attachment of the lower part of the dehydrating breather to the container is supplied, attach it to the dehydrating breather with the help of one of the bolts (pos. 22) and a wing nut (pos. 27a) on the bottom of the glass container.

Dispose of the binding tapes, Blind Flange and protective foil according to the locally applicable regulations.

3.4 INSTALLATION OF THE DEHYDRATING BREATHER MTraB DB100T-HT

The completely assembled dehydrating breather, including the necessary Gasket is placed in the transport case and it is also provided with a Blind Flange.

Be careful while installing the dehydrating breather in order not to damage it.

Dismantle the Blind Flange from the dehydrating breather by disassembling three M12 screw joints. Leave the Original Gasket on the dehydrating breather pipe flange.

Perform mechanical installation of the dehydrating breather to the dehydrating breather pipe by using the connection material which was used for connection of the Blind Flange to the dehydrating breather (M12 screws (3 items), M12 nuts (3 items) and M12 washers (6 items)).

Tighten the screws in a symmetric way. The maximum torque is 80Nm. Please, check and possibly retighten the screws five minutes after tightening.

Perform the electrical installation according to the appropriate machine wiring chart. The wires are connected on the motor drive cabinet terminals and are routed to the dehydrating breather installation place. The wire ends are provided with protective foil, please remove it. Individual wires are marked with a numerical code in accordance with the dehydrating breather terminal board.

Dispose of the Blind Flange and protective foil according to the locally applicable regulations.

3.5 INSTALLATION OF OTHER (UNSPECIFIED) TYPES OF DEHYDRATING BREATHERS

The completely assembled dehydrating breather, including the necessary Gasket is placed in the transport case and it is also provided with a Blind Flange.

Be careful while installing the dehydrating breather in order not to damage it.

Prior to installation, read directions for use of respective dehydrating breather and follow it during installation.

Dismantle the Blind Flange from the dehydrating breather. If this flange was fastened by means of connection material leave it for further use. Leave the Original Gasket on the dehydrating breather pipe flange

Perform mechanical installation of the dehydrating breather to the dehydrating breather pipe according to instructions for use.

If installation is performed by means of screws, tighten the screws in a symmetric way. Maximum torque specified by the manufacturer of dehydrating breather shall be kept. Please, check and possibly retighten the screws five minutes after tightening.

If oil filling is necessary for the function of dehydrating breather, perform filling only after installation of dehydrating breather onto the machine. Follow the dehydrating breather manufacturer's instructions.

If required for respective type of dehydrating breather, perform the electrical installation according to the appropriate machine wiring chart. The wires are connected on the motor drive cabinet terminals and are routed to the dehydrating breather installation place. The wire ends are provided with protective foil, please remove it. Individual wires are marked with a numerical code in accordance with the dehydrating breather terminal board.

Dispose of the Blind Flange, packages and any other unnecessary material according to the locally applicable regulations.