

OBH 58 OIL BUFFERS INSTALLATION

1 BUFFER LIFTING

In order to lift and handling the buffer there is a lifting eye bolts shipped with the device.

Remove the top rubber cup and top flange (nr. 6 hexagon socket head screws M 6) and install the top flange with the lifting eye bolts (see drawing).

NOTE: pay attention, don't remove the filter under the top flange of the ram.

Figure 1.



Notes: Remove the plastic film that protect the ram during the shipment before install the buffer.

During the compression of the buffer the actuator pin and the safety switch must be always installed to prevent oil leakage.

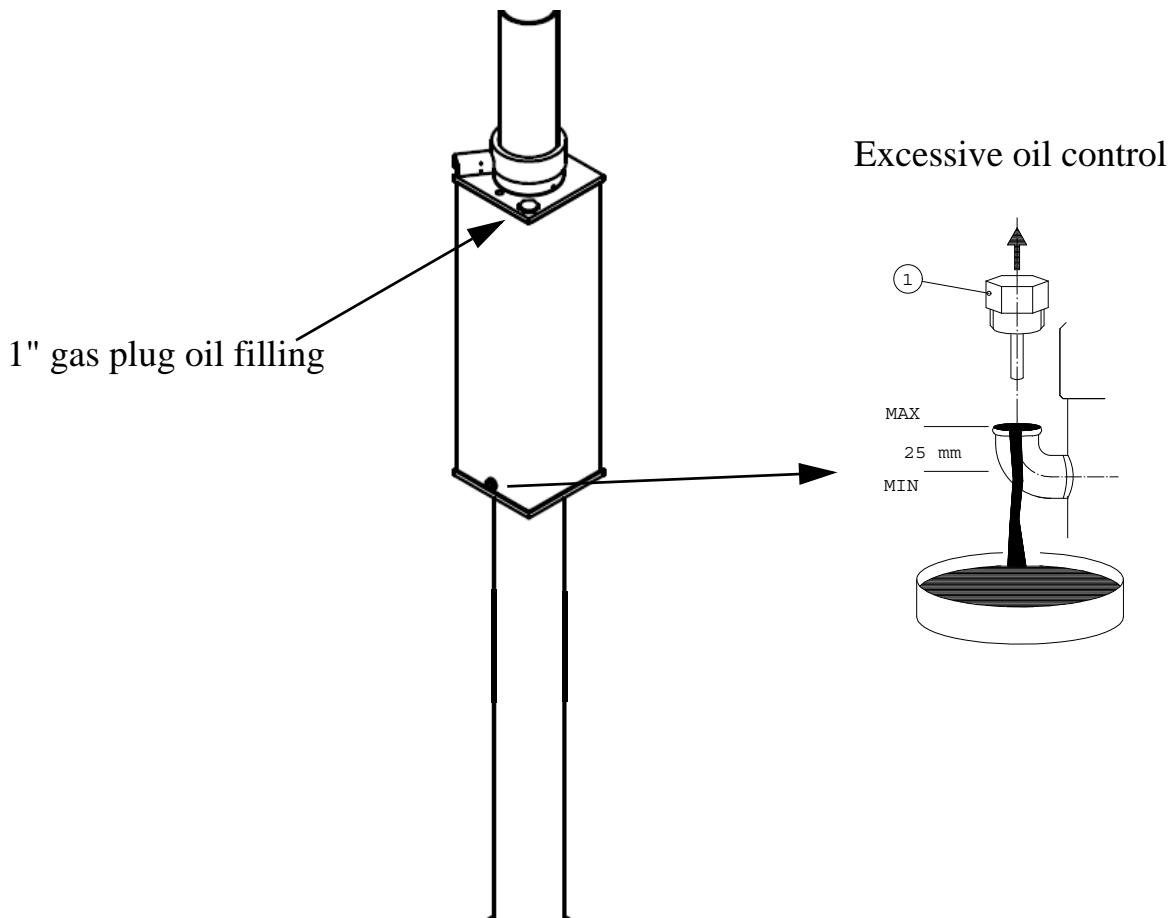
2 OIL FILLING

The OBH 58 oil buffer is shipped in horizontal position without oil inside.

Fill the buffer with:

oil type ISO VG 46, VI 104 minimum

- Disassemble the plug 1" on the cylinder supplementary tank (see figure below).
- Fill **35.8 litres of oil + 0.2 ...0.3 liters of extra oil** inside the supplementary tank
- Assembly the 1" plug on the cylinder supplementary tank and compress the ram (ram compressed 40...50 mm) then release slowly.
- Wait ten minutes then place a recovery tank under the inspection cup, open the screw cover (see figure below) and let excessive oil flow out.
- If necessary, to reach the maximum level repeat the operation adding another quantity of extra oil
- see the drawing below for the filling operations



3 ALIGNEMENT OF THE BUFFER

Check that the buffer is plumb. The deviation of the piston from the plumb line can be maximum 1 mm /1 m stroke (0.33 Inch / 39 Inch stroke).

WARNING:

Before putting on service the oil buffer, check the oil level trough the inspection cup.

During oil buffer functional test, at nominal impact speed, a small oil leakage is admitted from the air venting ports.

Always check buffer's oil level, after performance at nominal impact speed test.

Oil buffers are safety components to prevent damages during impacts at elevator nominal working conditions.

If during lift installation or manintenance oil buffers are compressed, please allow a suitable time (10/15 minutes) elapse between two following strokes.

4 WORKING CONDITION

Temperature: -5/45°C; (For different Temperature range ask to Hydronic Lift)

Humidity: less than 95%

Medium has no explosion risk, no risk of corroding metal and destroying insulation

Pit is clean and no ponding.

5 LIFE TIME

The life of the unit is assessed only on "condition monitoring" practice.

As an example, the replacement of the units will be made if:

- during planned checks, if presence of corroded metal parts are noted
- Following occasional events that may have compromised the integrity and functionality of some components of the hydraulic damper, such as flooding of the pit or a fire.

6 FIXING DETAILS

Base plate fastening

Fix the buffer to the pit with nr. 4 anchor bolts M 16 x 145 (or with nr. 4 screws M 16 in case of a steel base plate)

Supports

Fasten the cylinder of the buffer by a support installed 50 mm under the supplementary tank.