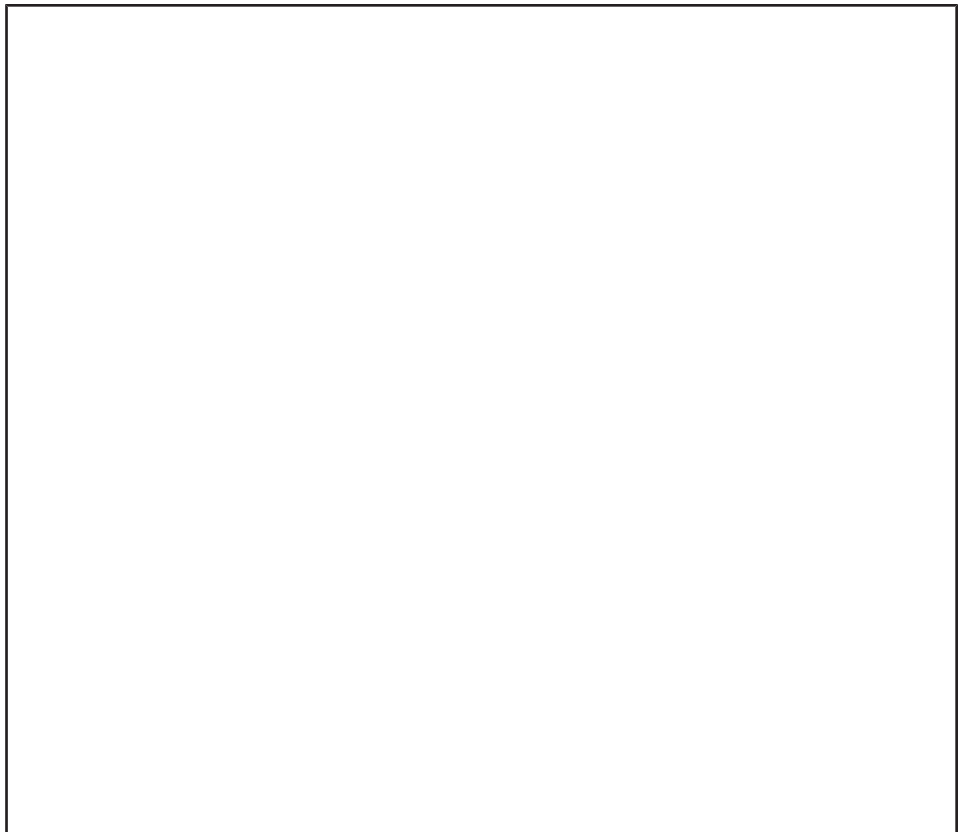


Magnetic Filter

Type F 112S-200 DN 15

Supplementary Operating Manual



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Supplementary Operating Manual Magnetic Filter

Original operating manual

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1 Supplementary Operating Manual

1.1 General

This supplementary operating manual accompanies the installation/operating manual. All information contained in the installation/operating manual must be observed.

Table 1: Relevant operating manuals

| Type series | Reference number of the operating/installation manual |
|-------------|---|
| HPH | 1122.8110 |

1.2 Function

The magnetic filter is designed for filtering liquids, e.g. in circulation circuits, containing ferrous particles (magnetite, etc.) which have to be removed in order to protect the mechanical seal faces.

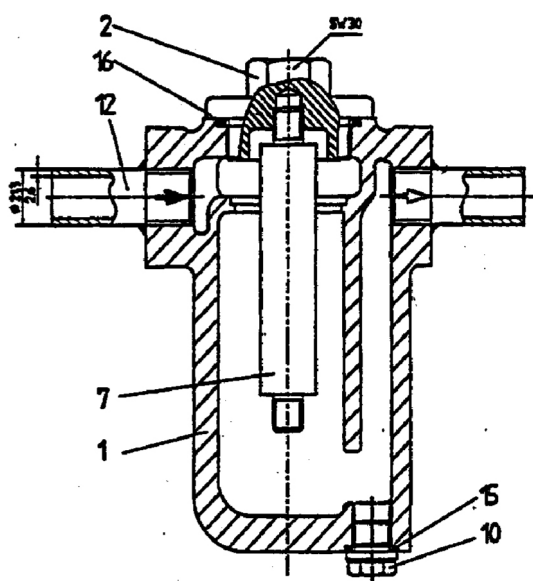


Fig. 1: Design of magnetic filter

| | | | |
|----|----------------|-------|------------------------------|
| 1 | Filter housing | 2 | Screw plug with bar magnet |
| 7 | Bar magnet | 10 | Drain plug in filter housing |
| 12 | Butt weld end | 15/16 | Joint ring |

The magnetic filter consists of a cast stainless steel housing (1), screw plug (2) and the filtration unit. The filtration unit consists of an internal bar magnet (7). The fluid to be filtered enters the filtration unit from above and flows around the bar magnet, which attracts and holds ferromagnetic contaminants. The bar magnet consists of high-quality ceramic ring magnets, which are mounted on a bar attached to the bottom of the screw plug (2).

1.3 Applications

The magnetic filter is suitable for system pressures of up to 130 bar and temperatures of up to 160 °C.

1.4 Installing the magnetic filter

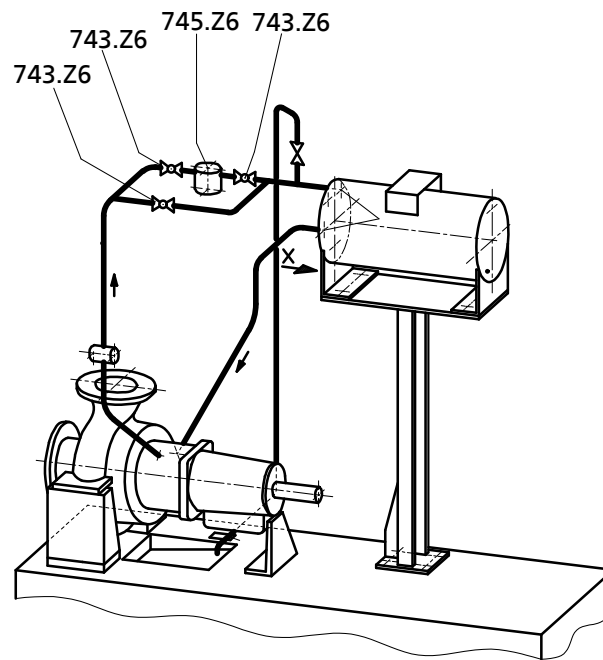


Fig. 2: Installing the magnetic filter

| | | | |
|--------|--|--------|-----------------|
| 743.Z6 | Shut-off elements upstream and downstream of magnetic filter | 745.Z6 | Magnetic filter |
|--------|--|--------|-----------------|

Observe the following when installing the magnetic filter on a pump (set):

- In order to avoid leaks at screwed connections, weld the magnetic filter directly into the circulation pipework of the mechanical seal circuit using butt weld ends (pipe 21.3×2.6).
- Install the magnetic filter such that the fluid flows through the magnetic filter in the direction shown on the housing. Flow in the wrong direction could cause the filter to malfunction.

1.5 Cleaning the magnetic filter

| | |
|--|--|
| | WARNING |
| | <p>Improper maintenance Hot and/or toxic fluid may spurt out!</p> <ul style="list-style-type: none"> ▷ Do not open the screw plug until the magnetic filter has cooled down to ambient temperature and pressure has been released. ▷ Maintain the circulation flow through the bypass line. |

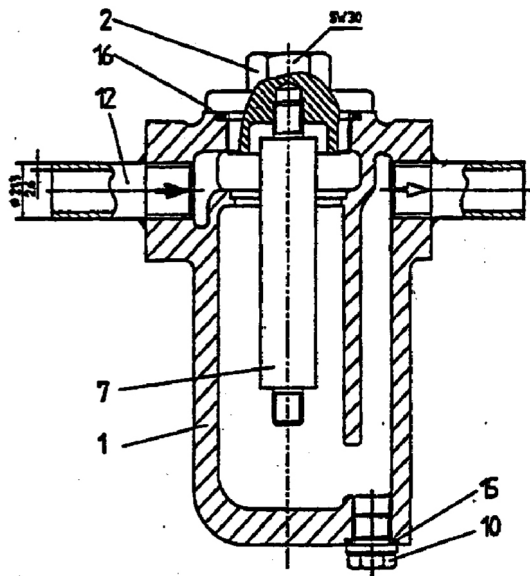


Fig. 3: Design of magnetic filter

| | | | |
|----|----------------|-------|------------------------------|
| 1 | Filter housing | 2 | Screw plug with bar magnet |
| 7 | Bar magnet | 10 | Drain plug in filter housing |
| 12 | Butt weld end | 15/16 | Joint ring |

1. Close shut-off elements 743.Z6 upstream and downstream of the magnetic filter.
2. Open shut-off element 743.Z6 in the bypass line to maintain circulation.
3. Allow the magnetic filter to cool down to ambient temperature.
4. Carefully open the drain plug in the filter housing (10) to release the pressure.
5. Open the screw plug with the bar magnet (2), pull out the bar magnet (7) and clean it.
6. Clean the filter housing (1).
7. Check the joint rings (15 and 16) for damage and replace with new ones if necessary.
8. Fit the filter housing (1) and the bar magnet (7) again. Take care to avoid any damage to the joint rings (15 and 16).
9. Close the screw plug (2) and the drain plug (10).
10. Open shut-off elements 743.Z6 upstream and downstream of the magnetic filter and close shut-off element 743.Z6 in the bypass line.

Cleaning intervals The necessary cleaning intervals depend on the level of contamination of the circulating liquid. It is advisable to clean the filter every day for a while following initial commissioning of the pump/system and then to schedule future intervals on the basis of the observed contamination.



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