



Diamond Filters Maintenance Instructions

SEAL KITS:

| SIDE ENTRY / Y TYPE FILTER | | |
|----------------------------|-------------------|----------|
| SIZE | SEAL KIT PART No. | THIS KIT |
| 1.0" | KFL10 _____ | _____ |
| 1.5" | KFL15 _____ | _____ |
| 2.0" | KFL20 _____ | _____ |
| 2.5" | KFL25 _____ | _____ |
| 3.0" | KFL30 _____ | _____ |
| PUMP PROTECTION FILTER | | |
| SIZE | SEAL KIT PART No. | THIS KIT |
| 1.0" | KPF10 _____ | _____ |
| 1.5" | KPF15 _____ | _____ |
| 2.0" | KPF20 _____ | _____ |
| 2.5" | KPF25 _____ | _____ |
| 3.0" | KPF30 _____ | _____ |

IMPORTANT Please read carefully before commencing any work on this filter:

1. Ensure that the line pressure is zero and fully drained and that power supplies are turned off and isolated.
2. Gaskets and seals should be stored away from UV light to increase shelf life.
3. Ensure that pipes and connections are properly aligned to avoid undue stress and leakage.
5. The additional ATEX / Equivalent UK Regulations Installation & Maintenance Instructions must be used in conjunction with this document to ensure safe use of ATEX / equivalent UK regulations rated filters. **CONNECTING PIPEWORK MUST BE EARTHED.**
4. The user should adopt a maintenance programme for filters depending on frequency of use and application particulars. DPL recommends seal replacement at least every two years.

DISMANTLING PROCEDURE:

Ensure that all **IMPORTANT** points listed on the left side of this page have been addressed prior to commencing work on your filter. The line pressure must be zero and the product line / filter body fully drained prior to removal of the filter assembly from your process line. Be sure to have a new seal kits to hand prior to dismantling. Seal kits are available from DPL using the part numbers shown on the left side of this page.

1. Once removed from the process line, place the filter assembly on a clean work bench. Dismantling may be easier if the filter body can be held in a soft-jaw vice. Care must be taken so as not to damage the filter body, tighten the vice only enough to ensure that the filter is held securely, do not over-tighten as this will deform the filter body.
2. Remove the filter element by unscrewing the end cap nut (Side Entry & Y Type Filters) or releasing the body clamp (Pump Protection Filters). Remove the end cap and lift out the filter element.
3. Remove the top cap seal and body seal. Prise out the lower body seal from inside the filter body using a suitable implement. Clean all parts using a soft brush and clean water. Take care not to cause damage to the filter element while cleaning. The element may be quite delicate if fine wire mesh is fitted.
4. All seals and can now be replaced. Follow the assembly procedure below.

ASSEMBLY PROCEDURE:

1. Ensure that all filter components and internal filter surfaces are clean prior to assembly.
2. Fit the end cap seal and lower body seal. Both seals must be pushed firmly into the retaining grooves making sure that both seals are correctly located and sitting flat.
3. Lower the filter element into the filter body, making sure of correct alignment between the element and lower seal.
4. Replace the body seal, then replace the end cap. There should be little or no gap between the end cap / body seal / filter body. If a noticeable gap exists it may be due to the filter element not being correctly located on the lower seal. In this instance, remove the end cap and re-align the filter element with the lower seal. If the element is not correctly aligned it will not be possible to form a seal between the body / body seal and end cap.
5. Tighten the end cap nut (Side Entry & Y Type Filters) or body clamp (Pump Protection Filters). Assembly is now complete.
6. Pressure test the filter prior to use where ever possible. Follow your in-house test procedures, maximum operating pressure is 10 bar.



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a stainless technologies company

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