



Level



Pressure



Flow



Temperature



Liquid
Analysis



Registration



Systems
Components



Services



Solutions

Installation Instruction

Sealing kit

Levelflex FMP53

EA00055F/00/A2/05.16
71315583



71315583

Instruction is valid for the following spare part set:

Order number	Original spare part set	Dimensions
71182816	Sealing kit FMP53 FKM, Sensorbody, 2 pieces	25.12 x 1.78
71157692	Sealing kit FMP53 FKM, FDA, 2 pieces	15.54 x 2.62 / 9.25 x 1.78
71043453	Sealing kit FMP43, FMP53 EPDM, 2 pieces	15.54 x 2.62 / 9.25 x 1.78
71184308	O-ring 9.25 x 1.78 EPDM, 5 pieces	9.25 x 1.78
71043452	Sealing kit FMP43, FMP53 Kalrez, 2 pieces	15.54 x 2.62 / 9.25 x 1.78
71315421	Sealing kit FMP53 UVJ, EPDM, 2 pieces	21.95 x 1.78 / 9.25 x 1.78
71315399	Sealing kit FMP53 UVJ, Kalrez, 2 pieces	21.95 x 1.78 / 9.25 x 1.78



We recommend that the Installation Instructions be kept with the packaging at all times.

Designated use

The spare part set and Installation Instruction are used to replace a faulty unit with a functioning unit of the same type. Use genuine parts from Endress+Hauser only.

Only original spare part sets, intended by Endress+Hauser for the measuring device, shall be used.

The verification has to be done via W@M Device Viewer this procedure is explained below.



For some devices there is an overview of the correct spare part set inside the connection compartment cover. If the spare part set is listed there, the verification is not required.

1. www.endress.com/deviceviewer
2. Enter the serial number (Ser. No.), search for product data and click on "spare parts".
3. List of all spare parts suitable for the instrument.
4. Check the order number of the spare part set.

Only if the order number of the spare part set corresponds to an order number in the spare part list, the spare part set can be used.

Authorized personnel to carry out repairs

Authorization to carry out a repair depends on the approval of the measuring device. The table shows the respective group of persons for each.



The person who carries out the repair is responsible for safety during the work, the quality of work completed and safety of the device after repair.

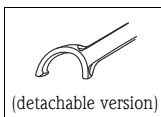
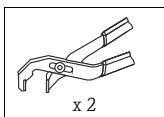
Approval of the measuring device	Group of persons authorized to carry out repairs
Without approval	1, 2, 3
With approval (for Ex. IECEx, ATEX, FM, CSA, TIIS, NEPSI)	1, 2, 3

1 = Trained customer technician, 2 = Service technician authorized by Endress+Hauser, 3 = Endress+Hauser (send measuring device back to manufacturer)

Safety instructions

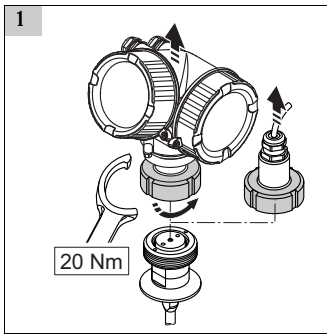
- Check whether the spare part matches the identification label on the measuring device. See chapter "Designated use".
- The spare parts set and Installation Instructions are used to replace a faulty unit with a functioning unit of the same type.
Use genuine parts from Endress+Hauser only.
- In the case of Ex-certified measuring devices: Observe the information in the documentation "Safety Instructions" (XA, ZD). The relevant Safety Instructions (XA) are indicated on the nameplate.
- The measuring device is energized. Danger: Risk of electric shock! Open the measuring device in a de-energized state only.
- Before removing the device: set the process in a safe condition and purge the pipe of dangerous materials.
- Hot surfaces! Risk of injury! Before commencing work, allow the system and measuring device to cool down to a touchable temperature.
- In the case of measuring devices in custody transfer, the custody transfer status no longer applies once the lead seal has been removed.
- Comply with national regulations governing mounting, electrical installation, commissioning, maintenance and repair procedures.
- Requirements with regard to specialized technical staff for the mounting, electrical installation, commissioning, maintenance and repair of the measuring devices:
 - trained in instrument safety
 - familiar with the individual operation conditions of the devices
 - for Ex-certified measuring devices: also trained in explosion protection
- Follow the Operating Instructions for the device.
- Risk of damaging electronic components! Ensure you have a working environment protected from electrostatic discharge.
- After removing the electronics cover, there is a risk of electric shock as shock protection is removed!
Switch off the measuring device before removing internal covers.
- Modifications to the measuring device are not permitted.
- In the case of measuring devices in safety-related applications in accordance with IEC 61508 or IEC 61511: After repair recommission in accordance with Operating Instructions. Document the repair procedure.
- Only open housing for a brief period. Avoid the penetration of foreign bodies, moisture or contaminants.
- Replace defective seal/gaskets with genuine parts from Endress+Hauser only.
- If threads are damaged or defective, the measuring device must be repaired.
- Threads (e.g. of the cover for the electronics and terminal compartment), which have been prepared by Endress+Hauser with an abrasion resistant dry lubrication should not be additionally lubricated.
Threads without lubricant must be lubricated with an acid-free, non-hardening grease.
- If spacing is reduced or the dielectric strength of the measuring device cannot be guaranteed during repair work, perform a test on completion of the work (e.g. high-voltage test in accordance with the manufacturer's instructions).
- Service connector:
 - do not connect in potentially explosive atmospheres.
 - only connect to Endress+Hauser service devices.
- Observe the instructions for transporting and returning the device outlined in the Operating Instructions.
- If you have any questions, contact your E+H service organization.

Tool list

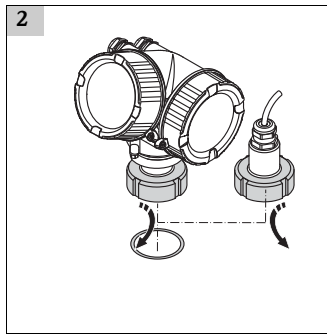


For mounting the probe parts use tools with flat surface or braces only. Do not damage the surface of the polished probe parts by marks or notches!

Exchange of O-ring 25.12 x 1.78

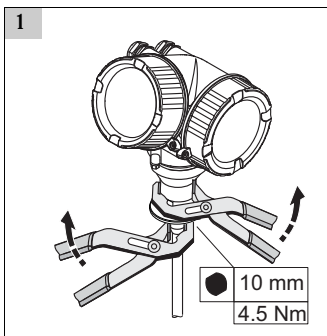


Sonde_FMP53_7

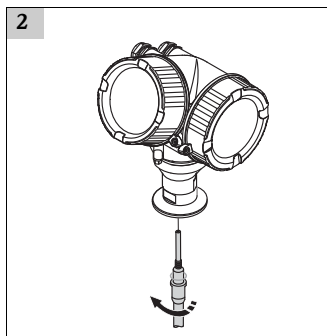


Sonde_FMP53_12

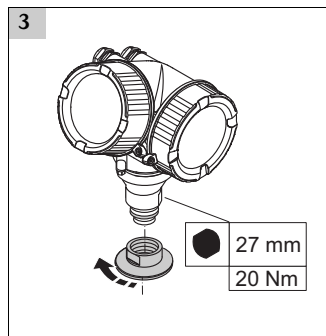
Exchange of O-ring 15.54 x 2.62



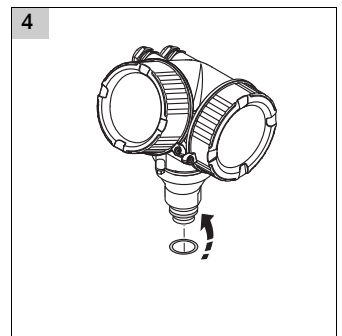
Sonde_FMP53_1



Sonde_FMP53_17

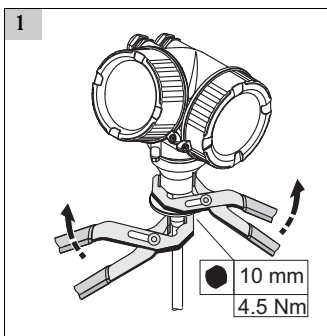


Sonde_FMP53_3

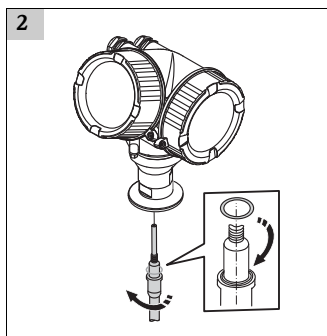


Sonde_FMP53_4

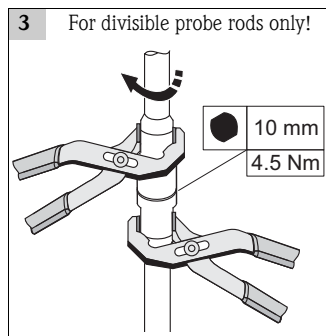
Exchange of O-ring 9.25 x 1.78



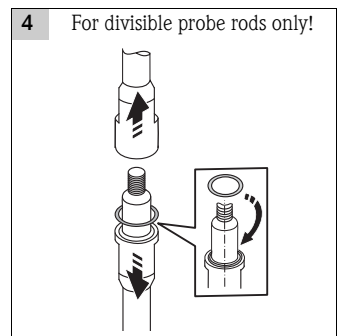
Sonde_FMP53_1



Sonde_FMP53_2

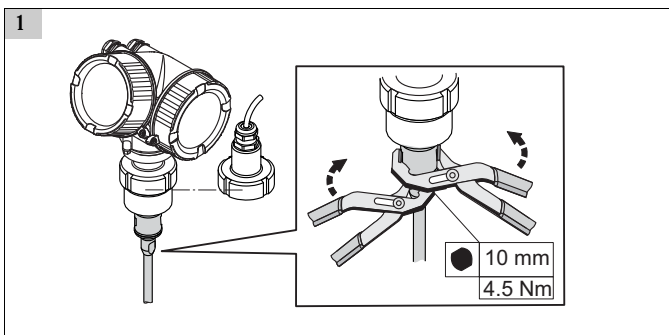


Sonde_FMP53_5

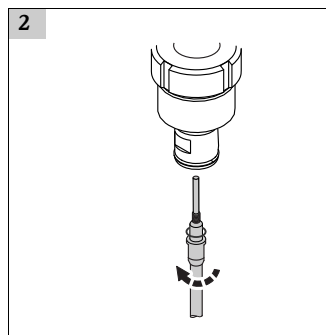


Sonde_FMP53_6

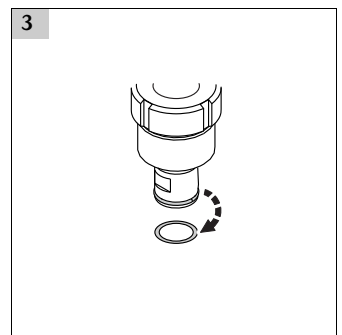
Exchange of O-ring 21.95 x 1.78 (for Ingold nozzle)



Sonde_FMP53_IG1



Sonde_FMP53_IG2



Sonde_FMP53_IG3

Re-assembly

Re-assembly has to be done in reverse order.

