

# EO-3<sup>®</sup> – Worth Knowing

Any questions? Here are the answers!

<b>Is the viewing window always reliable, even when I over-tighten EO-3<sup>®</sup>?</b>	Yes! If the viewing window is in the right position, both rings turn further in synchronisation due to the drag ring function. “Over-assembly” should not be confused here with “destroy”. It only means that more force than necessary was applied.
<b>Can I over-assemble EO-3<sup>®</sup>?</b>	See above. An “up to block position” provides a mechanical assembly stop. “Assemble till destroyed” is thereby virtually eliminated.
<b>How does EO-3<sup>®</sup> behave during repeat assembly?</b>	The repeat assembly process functions reliably. The indicator function remains in place, albeit the necessary effort and actual assembly stroke can differ, depending on the first assembly. Furthermore, there is no wear or widening of the internal cone.
<b>Can I re-assemble a connector which has been over-tightened?</b>	Yes, with over-assembly the indicator rings show the position of the last assembly. If the fitting is undone and then assembled again, the function of assembly indication remains intact.
<b>Assembly is relatively easy – can EO-3<sup>®</sup> now also be loosened more quickly?</b>	The loosening moments have a relationship with the assembly moments and are therefore lower. If the assembly is correct, loosening during operation cannot occur. This has been verified with dynamic testing of both tube and hose connections.
<b>How does EO-3<sup>®</sup> behave when there are hose movements, especially torsion?</b>	Hose assembly must be such that relative motion of machine components does not produce twisting.
<b>Is the forming of EO-3<sup>®</sup> comparable with EO2-FORM?</b>	Yes, both are positive-locking systems. Differences exist in the form of the seal. With EO2-FORM the sealing ring is fitted onto the tube. With EO-3 <sup>®</sup> an O-ring is already inserted into the fitting body.
<b>Is the sealing ring in the fitting sufficiently protected from mechanical influences?</b>	Yes, the O-ring is housed in the fitting body and is very well protected.
<b>Does EO-3<sup>®</sup> remain leak-proof even when the O-ring is damaged?</b>	Yes. Long-lasting hydraulic sealing with a damaged or missing O-ring can nevertheless be assured. For a permanently hostile situation the O-ring should be changed.
<b>What are the temperature properties of the indicator ring?</b>	The indicator rings are made from glass-reinforced polyamide. This material is suitable for temperatures from -40 °C up to +120 °C.
<b>How media resistant are the indicator rings and the yellow viewing window?</b>	The ozone-resistant indicator rings do not come into contact with the hydraulic medium due to the fact that they are situated on the outside of the fitting. But environmental media must be allowed for. The indicator rings are resistant to mineral oils and fats, water and popular detergents.
<b>What can be done if the indicator ring in a manufactured hose or tube assembly is missing or destroyed?</b>	The connector can be assembled without performance reductions like a sealing cone connector. The assembly indication function however is no longer operative.

<b>Is EO-3° compatible with existing systems?</b>	EO-3° can be connected to established DIN systems via an adaptor. In other respects EO-3° has its own technical standard.
<b>Is the indicator ring ozone-resistant?</b>	Yes, the indicator ring is manufactured from black, ozone-resistant polyamide. Adverse effect by ozone is not critical, because the indicator ring has no primary sealing function.
<b>What do I do in the event of a repair if no EO-3° is available?</b>	Either the whole tube/hose assembly including the screw-in connector should be exchanged or an EO-3° norm adaptor employed.
<b>Do I still need a torque spanner for assembly?</b>	No! This tool is no longer required. The fitting can be assembled by eye (or by sight).
<b>Can I actually assemble faster?</b>	Yes, because of the taper thread the nut can be screwed on with fewer turns.
<b>How does EO-3° behave if the tube or hose line is not 100% aligned?</b>	EO-3° can better compensate for alignment errors than DIN fittings. Thanks to the taper thread, the hose or tube connector can also be assembled when small alignment errors are present.
<b>Must I specially prepare the tube end?</b>	Tube preparation is identical to that for DIN or SAE fittings. (See assembly instructions).
<b>Has the port thread also changed?</b>	No - the screw-in side follows the usual standards and norms.
<b>How and how long should EO-3° be stored?</b>	Storage capabilities: dry and dust-free. Exclusion of light and ozone because of the seal. Under optimum conditions NBR seals can be stored for 5 years and FKM for 10 years.
<b>Which tubing can I use for EO-3°?</b>	Steel tubing, seamlessly cold drawn and bright annealed to DIN EN ISO 10305-4.
<b>Can stainless steel tubing be utilised?</b>	EO-3° is for now only available in steel.
<b>Can EO-3° be over-painted?</b>	Yes, but assembly inspection should take place before painting because the colour markings of the indicator rings would also be over-painted.
<b>Can painted EO-3° connectors be repeat assembled?</b>	Yes, with painted EO-3° connectors the original assembly position can again be recognised. Assembly has been correctly carried out when the paint completely fills the viewing window and no other unpainted areas are visible.