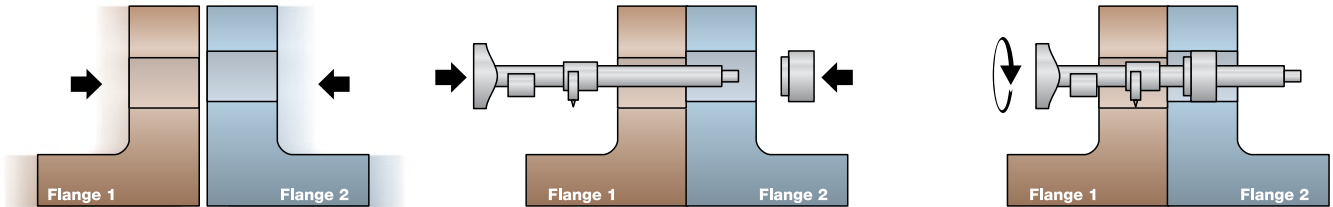


ExpaTen 2 (Assembly)

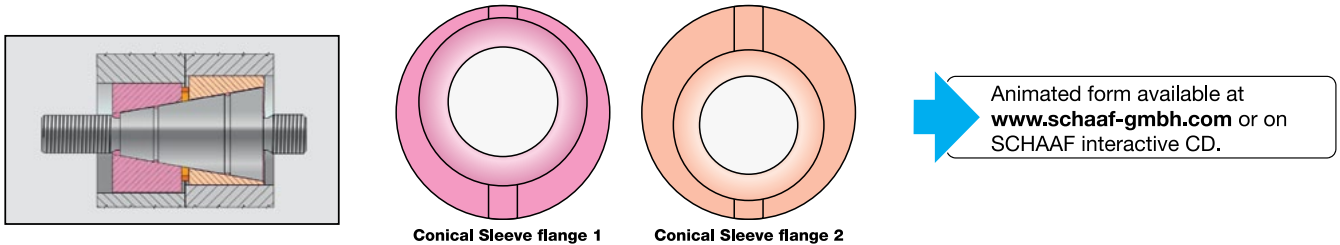
Ideal flange connection with misaligned flange bores

- ➡ = High pressure hydraulic system with high pressure pump and high pressure hose
- ➡ = Pressure relief to tank
- ↕ = Forces
- ↔ = Motion

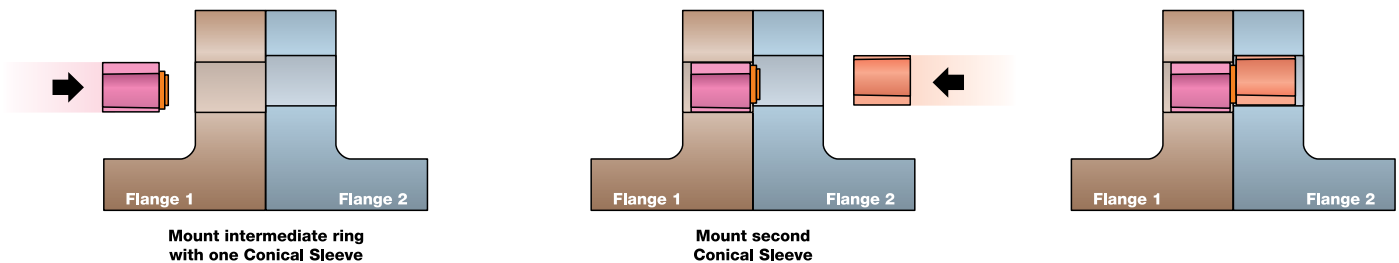
1. Measuring of the bores with SCHAAF measuring devices.



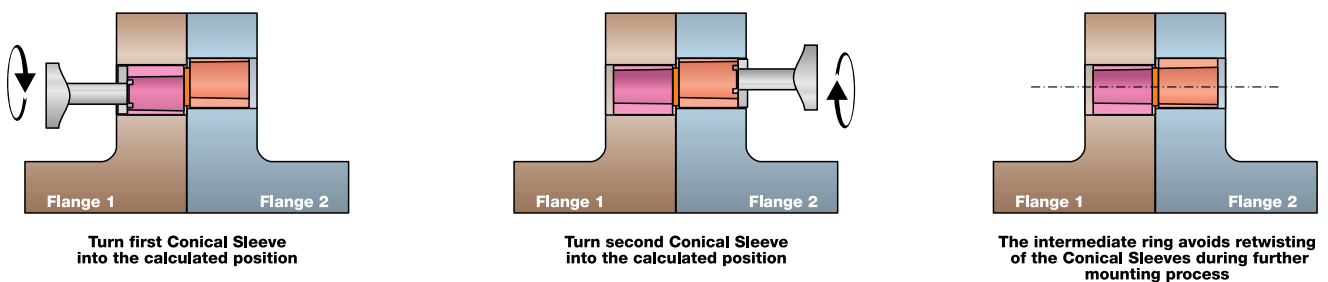
2. Software-supported calculations of the turning angle and the mounting process, including documentation.



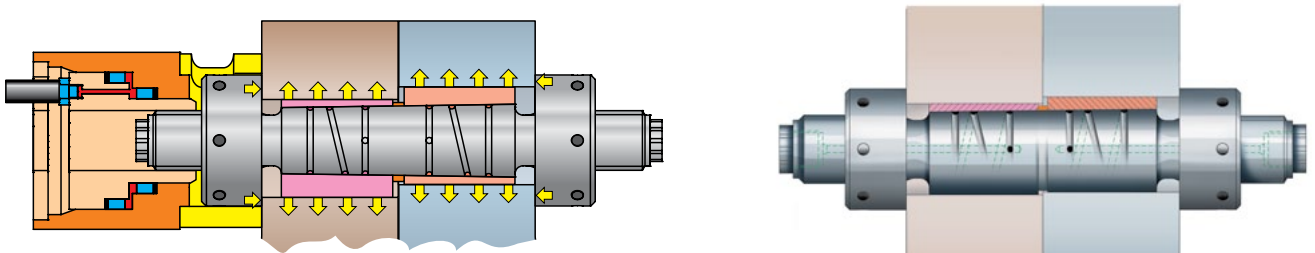
3. Mounting of the Conical Sleeves.



4. Turn Conical Sleeve with SCHAAF turning aid to the common joint centre axis.



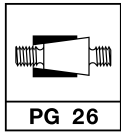
5. Mount the Tapered Bolt and tension as usual.



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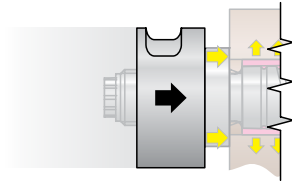
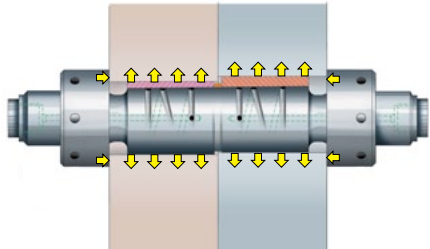
PG 26

ExpaTen 2 (Disassembly)

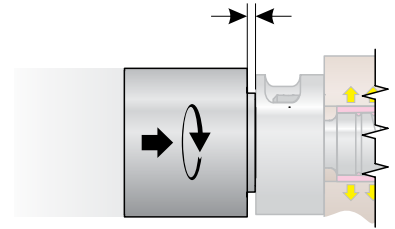
Expa = Expansion = 100 % positive locking in the flange bore
Ten = Tension = frictional connection of the joint

- ➡ = High pressure hydraulic system with high pressure pump and high pressure hose
- ➡ = Pressure relief to tank
- ↕ = Forces
- ↔ = Motion

1. Prepare for disassembly.

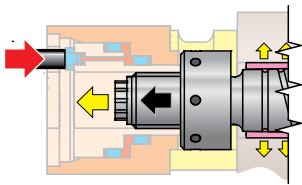


Attach support sleeve

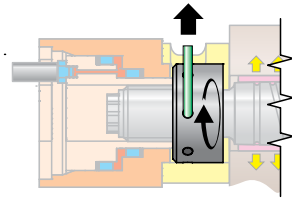


Attach Bolt Tensioner (SSV) with clearance to support sleeve

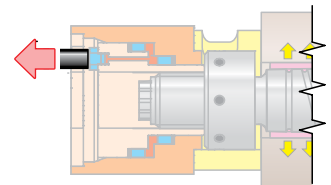
2. Relieve positive connection.



Stretch tapered bolt with hydraulic pressure

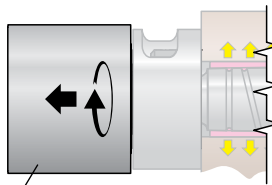


Screw back nut

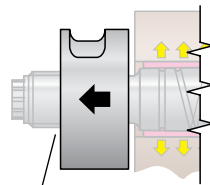


Release pressure

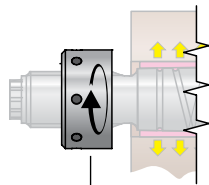
3. Prepare for applying radial pressure.



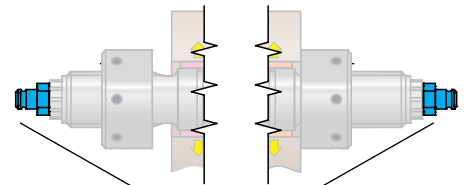
Unscrew Bolt Tensioner (SSV)



Remove support sleeve

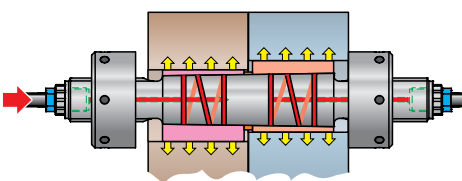


Screw back nut (do not screw off!)

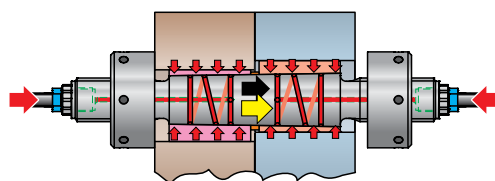


Complete pressure connection

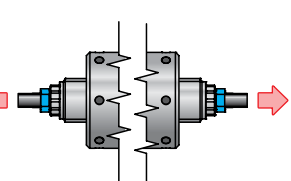
4. Relieve clamped connection.



Apply hydraulic pressure

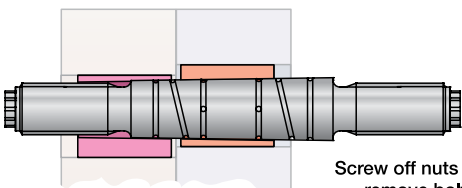


Bolt moves out, clamped connection is relieved

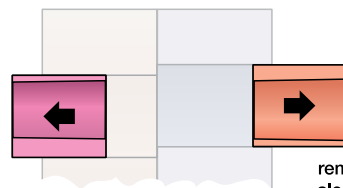


Release pressure

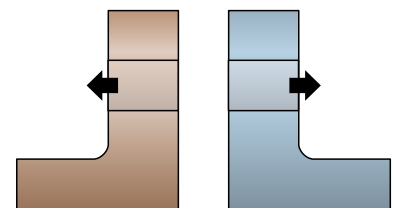
5. ExpaTen demontieren



Screw off nuts and remove bolt



remove sleeves



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