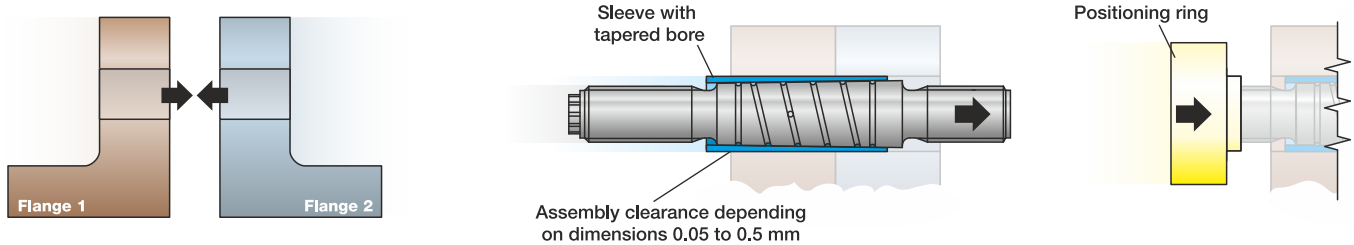


ExpaTen (Assembly)

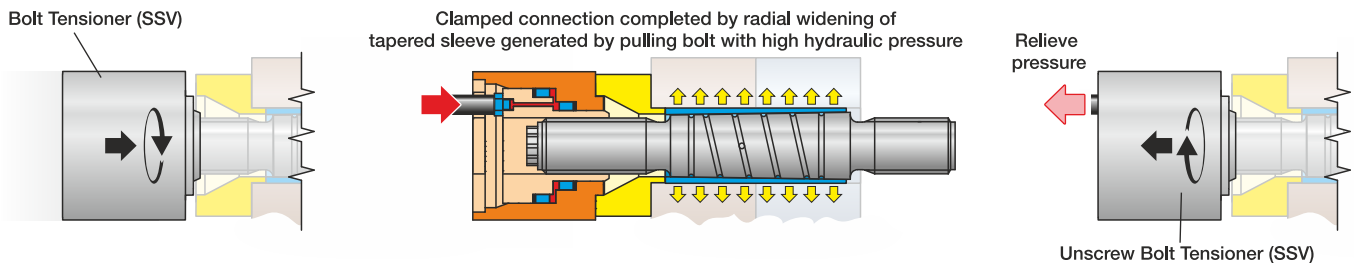
Expa = Expansion = 100 % positive locking into the flange bore
Ten = Tension = frictional connection to the joint

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

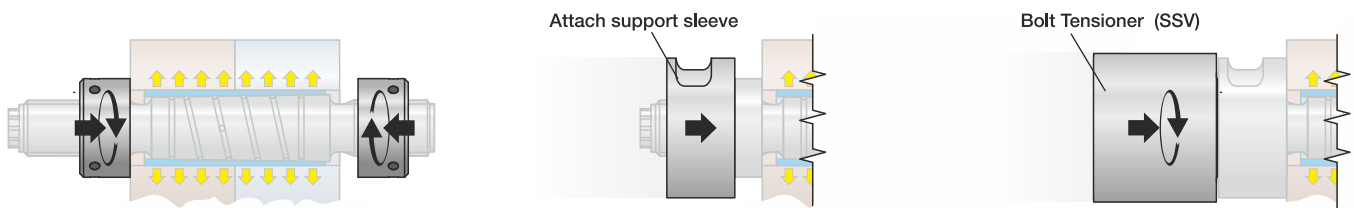
1. Install bolt and attach positioning ring



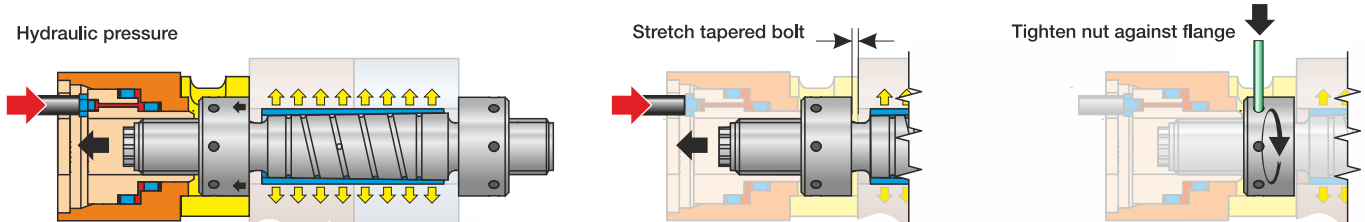
2. Screw on Bolt Tensioner (SSV) and complete clamped connection



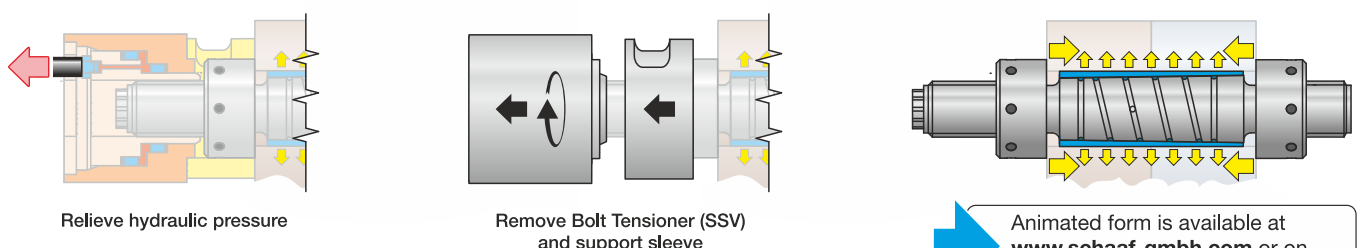
3. Screw on nut, attach support sleeve and screw on Bolt Tensioner (SSV)



4. Complete positive connection

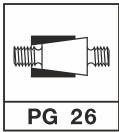


5. Clamped connection and positive connection





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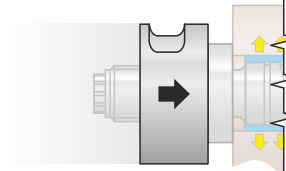
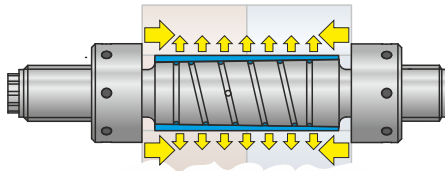


ExpaTen (Disassembly)

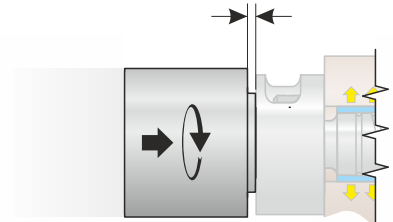
Expa = Expansion = 100 % positive locking into the flange bore
Ten = Tension = frictional connection to the joint

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

1. Prepare for disassembly

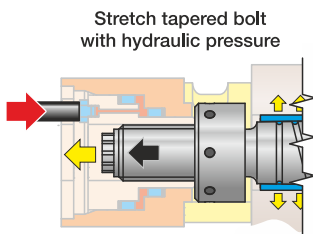


Attach support sleeve

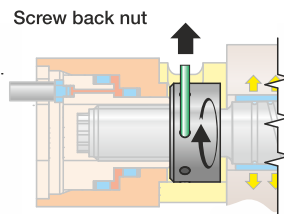


Attach Bolt Tensioner (SSV) with clearance to support sleeve

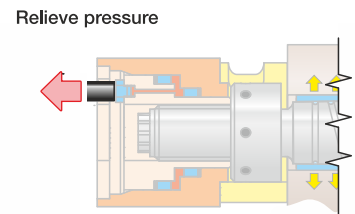
2. Relieve positive connection



Stretch tapered bolt with hydraulic pressure

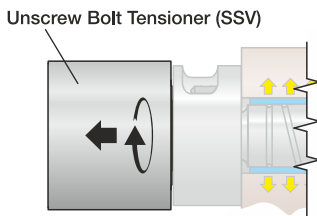


Screw back nut

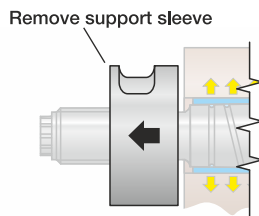


Relieve pressure

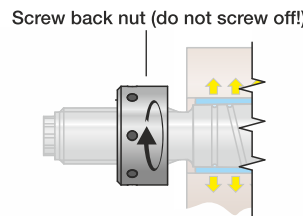
3. Prepare for applying radial pressure



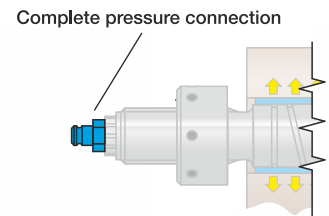
Unscrew Bolt Tensioner (SSV)



Remove support sleeve

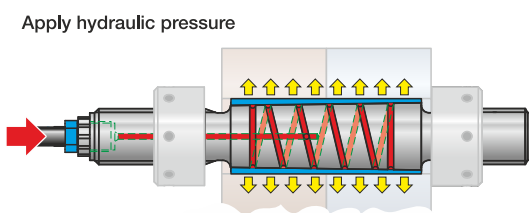


Screw back nut (do not screw off!)

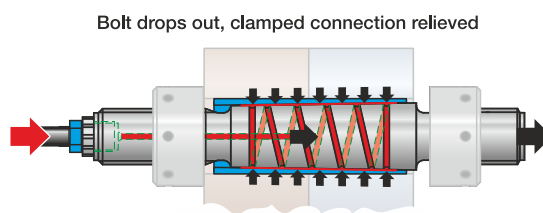


Complete pressure connection

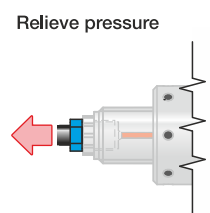
4. Relieve clamped connection



Apply hydraulic pressure

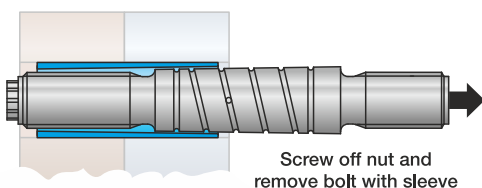


Bolt drops out, clamped connection relieved

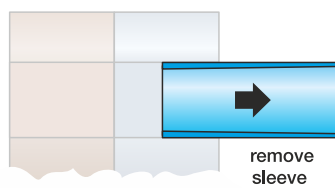


Relieve pressure

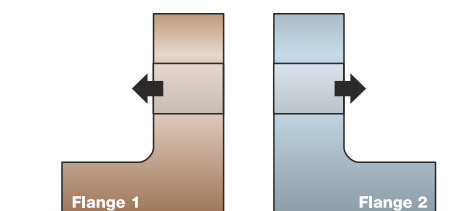
5. Disassemble ExpaTen



Screw off nut and remove bolt with sleeve



remove sleeve



Animated form is available at www.schaaf-gmbh.com or on SCHAAF interactive CD.

