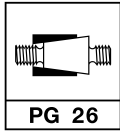




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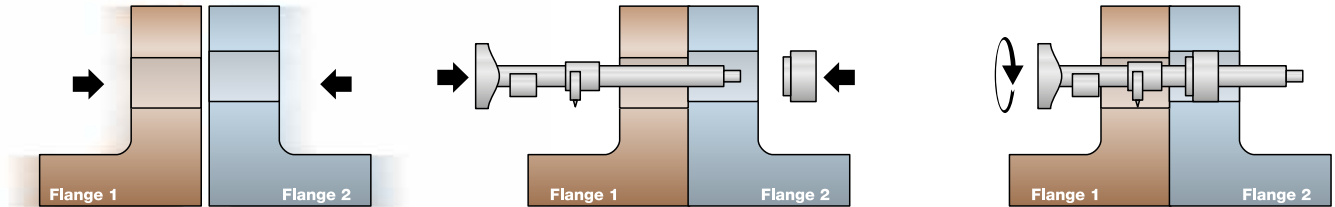


# ExpaTen 2 (Assembly)

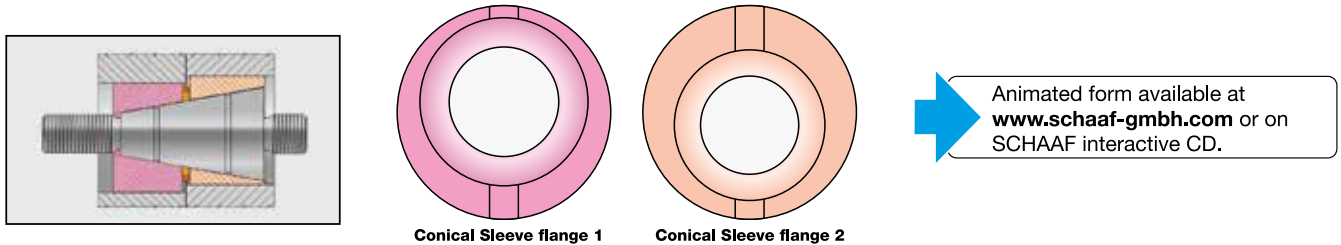
Ideal flange connection with misaligned flange bores

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

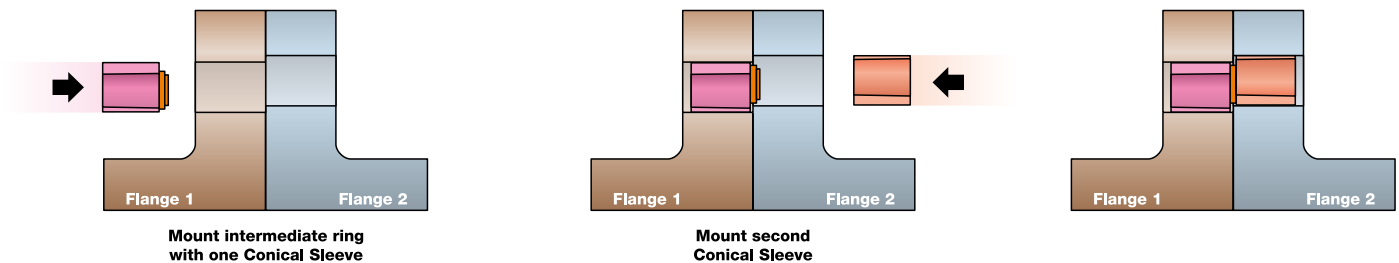
## 1. Measuring of the bores with SCHAAF measuring devices.



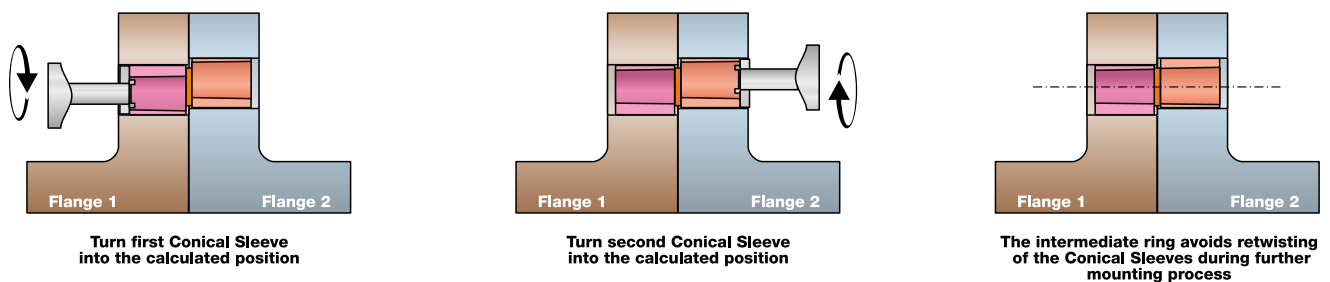
## 2. Software-supported calculations of the turning angle and the mounting process, including documentation.



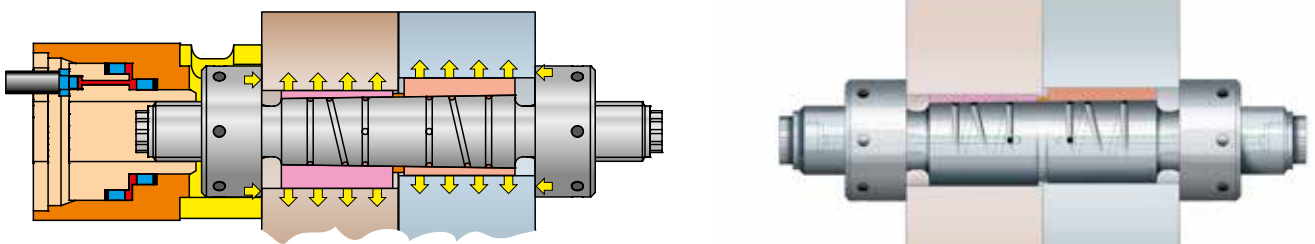
## 3. Mounting of the Conical Sleeves.



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



## 5. Mount the Tapered Bolt and tension as usual.



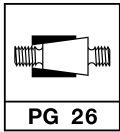
[www.schaaf-gmbh.com](http://www.schaaf-gmbh.com)

SCHAAF develops and produces world leading technology in the field of joining technique in all sectors of the industry.





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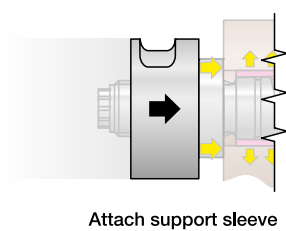
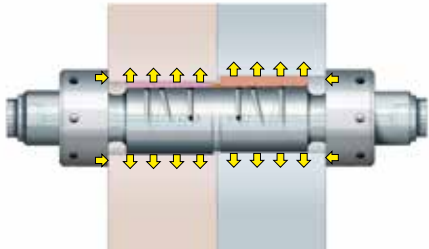


# ExpaTen 2 (Disassembly)

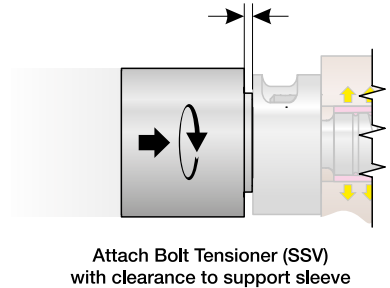
Expa = Expansion = 100 % positive locking in the flange bore  
Ten = Tension = frictional connection of the joint

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

## 1. Prepare for disassembly.

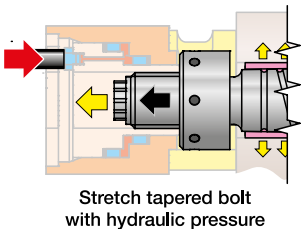


Attach support sleeve

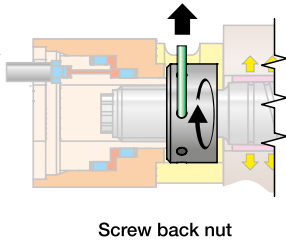


Attach Bolt Tensioner (SSV) with clearance to support sleeve

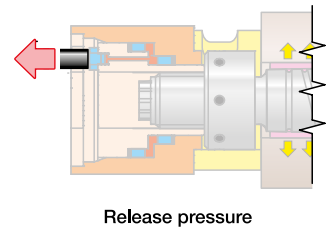
## 2. Relieve positive connection.



Stretch tapered bolt with hydraulic pressure

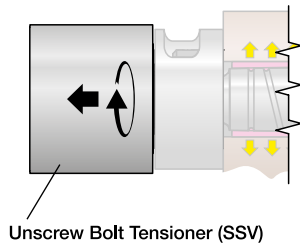


Screw back nut

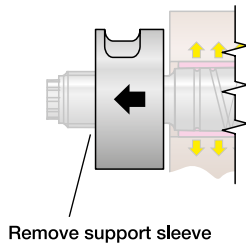


Release pressure

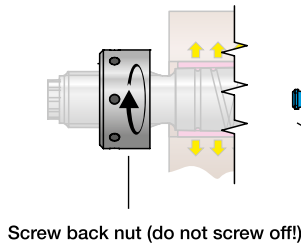
## 3. Prepare for applying radial pressure.



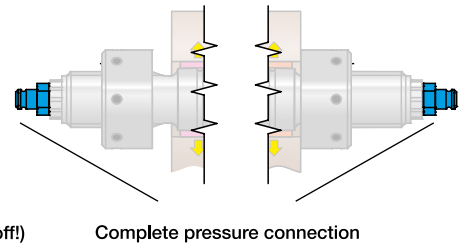
Unscrew Bolt Tensioner (SSV)



Remove support sleeve

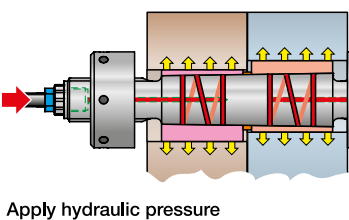


Screw back nut (do not screw off!)

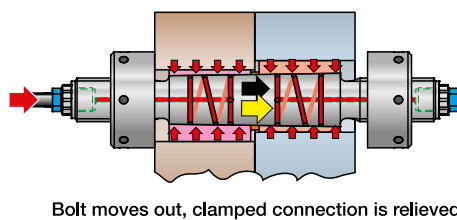


Complete pressure connection

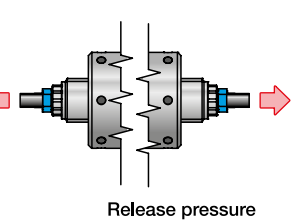
## 4. Relieve clamped connection.



Apply hydraulic pressure

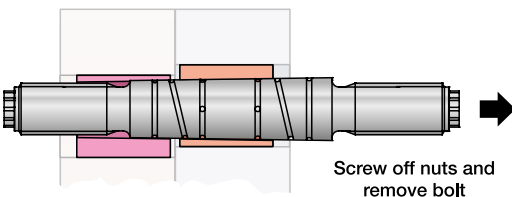


Bolt moves out, clamped connection is relieved

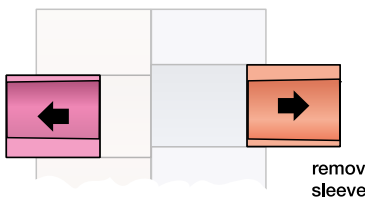


Release pressure

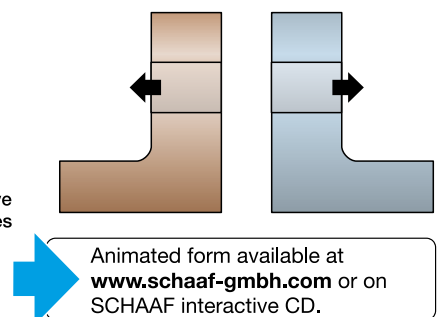
## 5. ExpaTen demontieren



Screw off nuts and remove bolt



remove sleeves



Animated form available at  
[www.schaaf-gmbh.com](http://www.schaaf-gmbh.com) or on  
SCHAAF interactive CD.

[www.schaaf-gmbh.com](http://www.schaaf-gmbh.com)

SCHAAF develops and produces world leading technology in the field of joining technique in all sectors of the industry.

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