

# 6

## Tools

### 6.1 Tools for compression sleeves

Jentro offers several tools for compression joints. The user can choose the ideal tool for a certain application from these different types.

The Jentro tools for compression joints are used in combination with the corresponding expansion sets for the compression jointing of both the PEX and the STABIL pipes.

Jentro SBH203 consists of a powerful drive unit for expanding and compressing tubes and sleeves from 16 till 32 mm. Works on battery.

The Jentro clamping jaws SB205 are suitable in combination with the widely used compatible 32 KNm machines for radial clamping. The machines must have a minimum power of 30 KNm and a maximum of 34 KNm. Machines that develop more power can damage the compression sleeves!

The following machine manufacturers provide machines approved by us: **Novopress** (machine provider of the well-known Mannesmann clamping system, among others), **Rothenberger**, **Klauke**, **Rems**.

Installers that have one of the abovementioned machines can mount the Jentro SB205 clamping jaws without a problem.



All Jentro tools for compression joints have been designed in such a way that they perfectly meet the different requirements for the job at the building site. The user does not have to decide which tool offers the best solution for the particular application.

◀ Fig. 10: Jentro VT201 manual expander and clamping pliers for 16 to 32 mm. (see page 20 - 23).



▲ Fig. 11: Jentro SBH203 compressing and expander machine 16 - 32 mm. (see page 24 - 26).

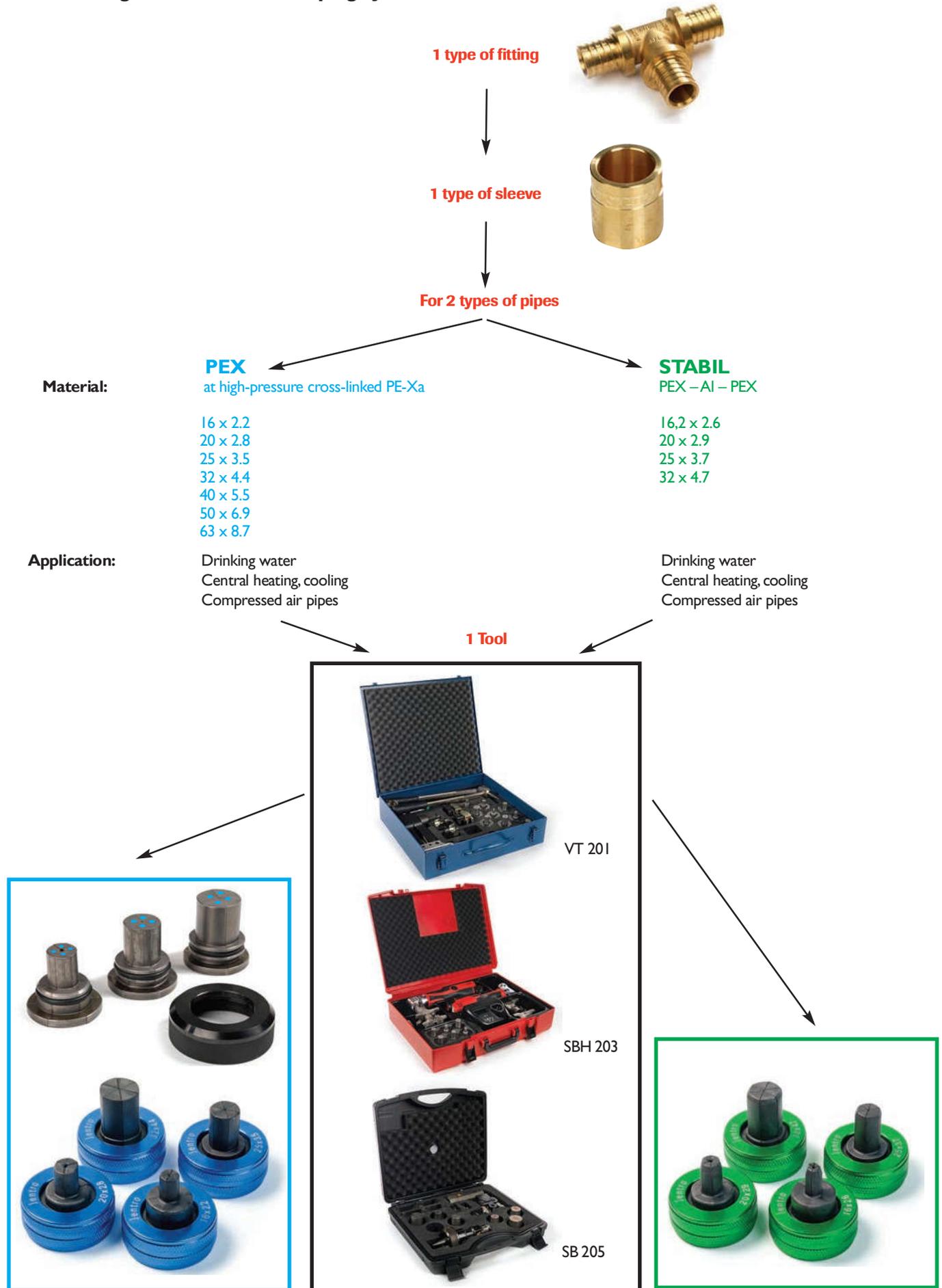


▲ Fig. 12: Jentro SBH203 expander machine. 16 - 32 mm (see page 24 - 26).



◀ Fig. 14: Jentro SB205 clamping jaws and expander tool for pipes of 40 - 50 and 63 mm. Works with all compatible drive units of 32KNm. (see page 27 - 30).

## 6.2 Advantages of the Jentro clamping system



▲ Fig. 15: Expander blue for PEX pipe 16 - 63 mm.

▲ Fig. 16: Tools 16 - 63 mm.

▲ Fig. 17: Expander green for STABIL pipe 16 - 32 mm.



## Jentro VT 201

Kit equipped with:

clamping pliers + ratchet  
(L+R)

expander pliers

clamping heads  
16 - 20 - 25 - 32 mm

expanders  
16 - 20 - 25 - 32 mm PEX

expanders  
16 - 20 - 25 - 32 mm  
STABIL

### 6.3.1 Fitting a compression sleeve joint with Jentro Tool VT 201.



▲ Fig. 18: Cut the pipe to the requested length. Caution! Always cut the pipe in a square cut!



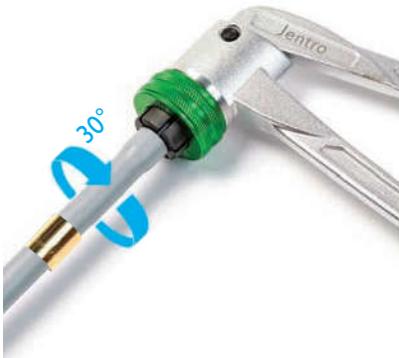
▲ Fig. 19: When expanding a STABIL pipe cut off slantwise, the aluminium coat can burst. This must absolutely be avoided!



▲ Fig. 20: Cut the bad part completely away in a square angle and start over!



▲ Fig. 21: Push the compression sleeve over the pipe. The inside chamfer has to point to the end of the pipe.



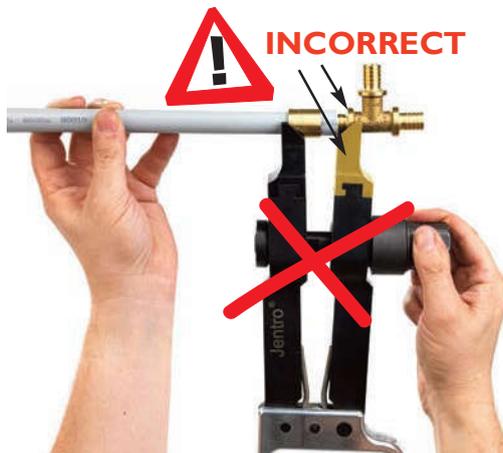
▲ Fig. 22: Widen the pipe twice (first turn by 30°). The compression sleeve must not be over the section to be widened.



▲ Fig. 23: Push the fitting into the pipe. After a short period of time, the fitting has a tight fit in the pipe.



▲ Fig. 24: Caution: the clamping head behind the sleeve has a yellow chromed colour; use behind the flange edge the head with black colour!



▲ Fig. 25: The yellow clamping head has here been mounted incorrectly.



▲ Fig. 26: The yellow clamping head has a special shape on the inner side and it should always be pressed against the sleeve!



▲ Fig. 27: Use the tool to push the compression sleeve right up to the fitting collar.



▲ Fig. 28: Turn the clamping jaws open again.



▲ Fig. 28-2: Compression joint ready, sleeve against the flange edge.

### 6.3.2 Special points for expanding and compressing the pipe.

Push the pipe completely against the expander and make sure that the pipe is straight on the expander. Otherwise, expansion occurs slantwise.



▲ Fig. 29: Pipe **NOT** until end of expander.



▲ Fig. 30: Pipe until end of expander.

STABIL pipe is much more sensible for a bad expansion. When the pipe is cut slantwise, it will not be expanded over the entire circumference with the same force. This can result in rupture of the aluminium coat.



▲ Fig. 31: Pipe cut slantwise.



▲ Fig. 32: Pipe cut straight.

Expanding pipes is easier when the cone of the expander is 'lightly greased' at regular times. Do not use too much grease, because then the inner side of the pipe can become contaminated.



▲ Fig. 33: Expand PEX pipe.



▲ Fig. 34: Expand STABIL pipe.

The clamping pliers have 2 different clamping heads for each diameter. Place the yellow head always **behind** the sleeve. Mount the black clamping head always behind the flange side of the fitting.



▲ Fig. 35: Clamping head black. Can be used for tool VT 201 and SB 204.



▲ Fig. 36: Clamping head yellow. Can only be used for VT 201.



▲ Fig. 37: Black clamping head placed incorrectly.



▲ Fig. 38: Black clamping head placed correctly.



▲ Fig. 39: Sleeve right up to the collar. Stop compressing!

6.3.3 Jentro Tool VT 201 • 16 - 32 mm : article numbers



Art. no.: 15000

Basic kit composed of: metal case with

- Preformed foam insert.
- Mechanical clamping pliers.
- Ratchet wrench (left/right)



Clamping heads:

Art. no.: 15001	16 mm colour black
Art. no.: 15011	16 mm colour yellow
Art. no.: 15002	20 mm colour black
Art. no.: 15022	20 mm colour yellow
Art. no.: 15003	25 mm colour black
Art. no.: 15033	25 mm colour yellow
Art. no.: 15004	32 mm colour black
Art. no.: 15044	32 mm colour yellow



Expander pliers

Art. no.: 13018 For expanding pipes 16 to 32 mm



Expanders for PEX pipe with blue marking

Art. no.: 13040	16 x 2,2 mm
Art. no.: 13041	20 x 2,8 mm
Art. no.: 13043	25 x 3,5 mm
Art. no.: 13045	32 x 4,4 mm



Expanders for STABIL pipe with green marking

Art. no.: 13140	16,2 x 2,6 mm
Art. no.: 13141	20 x 2,9 mm
Art. no.: 13143	25 x 3,7 mm
Art. no.: 13145	32 x 4,7 mm



## Jentro SBH 203

Kit equipped with :

compact electro-hydraulic  
drive unit with battery 3 Ah

double clamping jaws  
16/20 + 25/32

compact  
electro-hydraulic expander  
with battery 3 Ah

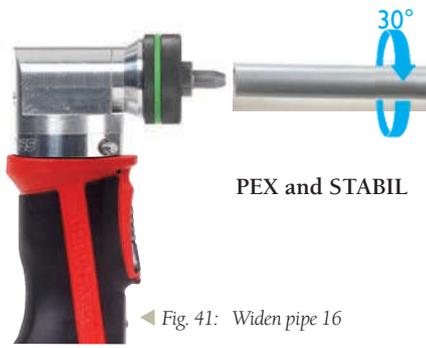
battery charger

possible expanders  
PEX / STABIL

**6.4.1 Expanding and compressing pipes with Jentro Tool SBH 203**



▲ Fig. 40: Expander tool SBH203



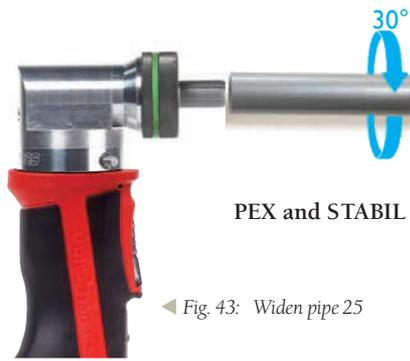
PEX and STABIL

◀ Fig. 41: Widen pipe 16



PEX and STABIL

◀ Fig. 42: Widen pipe 20



PEX and STABIL

◀ Fig. 43: Widen pipe 25



PEX and STABIL

◀ Fig. 44: Widen pipe 32



▲ Fig. 45: Tube 16 on T.



▲ Fig. 46: Tube 20 on T.



▲ Fig. 47: Tube 25 on T.



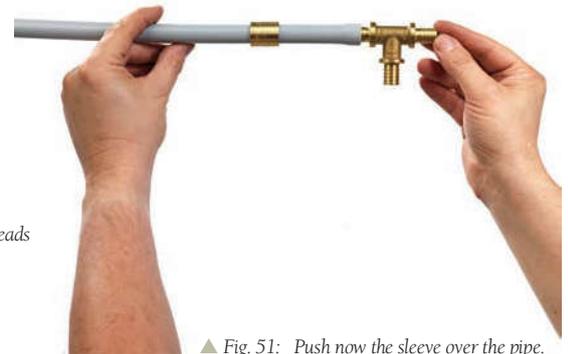
▲ Fig. 48: Tube 32 on T.



◀ Fig. 49: Compressing tool SBH203.



▲ Fig. 50: Double compression heads 16/20 and 25/32.



▲ Fig. 51: Push now the sleeve over the pipe.



◀ Fig. 52: Clamping machine is ready.



▲ Fig. 54: Compress.

◀ Fig. 53: Compress.



▲ Fig. 55: Pipes with T-piece and sleeve before and after compressing the sleeve.

**GUARANTEE**

**Compression drive unit:** 2 years guarantee after delivery. If the machine is yearly handed over for maintenance (paid), the guarantee is automatically extended to 3 years.

The guarantee on batteries and the battery charger is maximally 2 years, no prolongation is possible.

**Clamping jaws:** 2 years guarantee after delivery. If the jaws are yearly handed over for maintenance (paid), the guarantee is automatically extended to 5 years.

6.4.2 Jentro Tool SBH 203 • 16 - 32 mm : article numbers



Art. nr: 15700

- Basic kit composed of:
- axial pres machine SBH203 16 - 32 mm
  - battery 12V 1,5Ah Li-Ion + battery charger
  - without clamping heads 15601 + 15602
  - in solid plastic toolcase



Double clamping jaws for SBH203:

- |                |            |
|----------------|------------|
| Art. nr: 15601 | 16 + 20 mm |
| Art. nr: 15602 | 25 + 32 mm |
| Art. nr: 15603 | 22 + 28 mm |



Art. nr: 15750

- Electro-hydraulic expander 16 till 32 mm
- Battery 12V 1,5Ah Li-Ion



Expanders for PEX tube with blue marking

- |                |             |
|----------------|-------------|
| Art. nr: 13040 | 16 x 2,2 mm |
| Art. nr: 13041 | 20 x 2,8 mm |
| Art. nr: 13042 | 22 x 3,0 mm |
| Art. nr: 13043 | 25 x 3,5 mm |
| Art. nr: 13009 | 28 x 4,0 mm |
| Art. nr: 13045 | 32 x 4,4 mm |



Expanders for STABIL tube with green marking

- |                |               |
|----------------|---------------|
| Art. nr: 13140 | 16,2 x 2,6 mm |
| Art. nr: 13141 | 20 x 2,9 mm   |
| Art. nr: 13143 | 25 x 3,7 mm   |
| Art. nr: 13145 | 32 x 4,7 mm   |



Art. nr: 15340

Battery 12V 1,5Ah Li-Ion