

1. Intended use / Product description



Medium:

Potable water

Max. operating pressure:

Trinkwasser: 16 bar

Material:

Conduit with adjusting and pressure flange: PP

Thread adapter, interlocked grip ring: POM

Gaskets: elastomer

Fitting: GJS-400, Hawle epoxy powder coated

Description:

Quick-installation pipe entry fittings with conduit are designed to push medium-bearing PE pipes (PVC pipes on request) through the pipe entry fitting to the building inside and establish a restraint connection via a push-fit fitting.

Rubber gaskets are used to seal the medium pipe against the conduit and the fitting, on the one hand, and the conduit against the outer wall of the building, on the other hand.

With this system, other than with pipe entry fittings for installation with cement grouting, no grouting is required between the quick-installation pipe entry fitting and the wall.

This version permits a variable adaptation of the pipe entry fitting to the respective wall thickness.

Advantages:

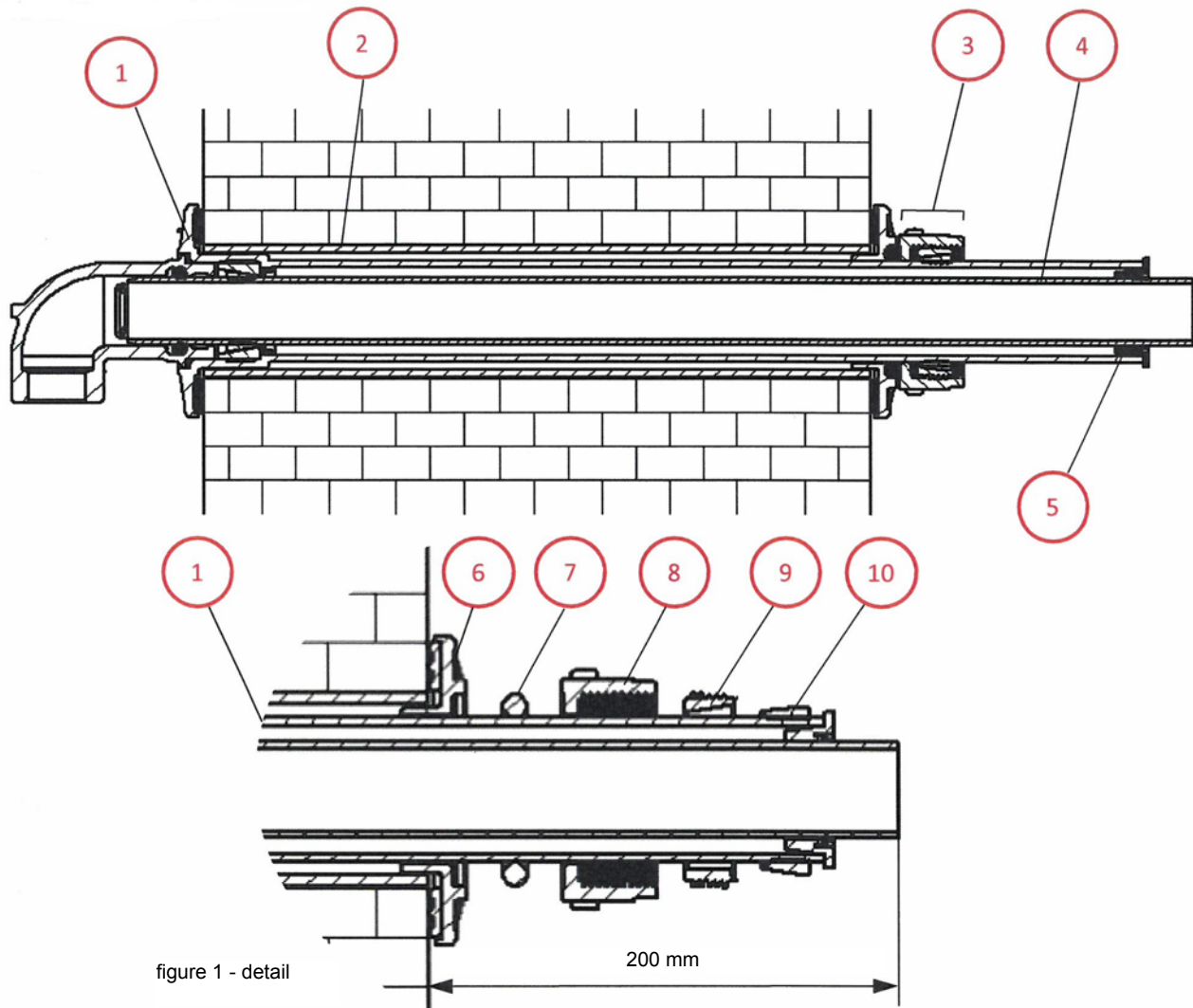
- Sealing against stray gases and non-pressing water
- No grouting between the conduit and the bore
- Variable adaptation to the wall thickness (from 80 to 600 mm)
- Medium pipe can be dismantled from the cellar
- With integrated push-fit fitting (straight or 90°) at the building inside

When PE pipes are installed in pipe entry conduits, support liners shall be used.

During assembly and installation, the applicable standards and regulations, accident prevention regulations, as well as the trade associations' provisions shall be observed and complied with. Pipe entry fittings must be installed in such a way that the wall remains water-tight.

Installation should be performed by skilled personnel only.

2. Assembly



a) **Preparation:** For entering the quick-installation pipe entry fitting (1), a formwork pipe (2) ord. no. 683 000 0580 can be installed in the wall, or a core hole ~ 88-92 mm in diameter can be drilled.
If broken patches are no longer covered by the gasket of the pipe entry fitting flange or the flange gasket, they have to be repaired.

b) Remove the clamping elements (3) preassembled for the cellar outside from the quick-installation pipe entry fitting. Spread the grip ring (10) slightly apart for shifting it.

c) Before installation, the quick-installation pipe entry fitting should be adapted to the wall thickness (by cropping it) (lever action)! The correct length (total length) is calculated as follows:

wall thickness in mm + 200 mm (Figure 1 - detail)

Cut the fitting at a right angle and deburr the cutting edge.

d) Enter the quick-installation pipe entry fitting (1) through the opening from the cellar inside. Please make sure that the flange lies flush against the cellar wall.

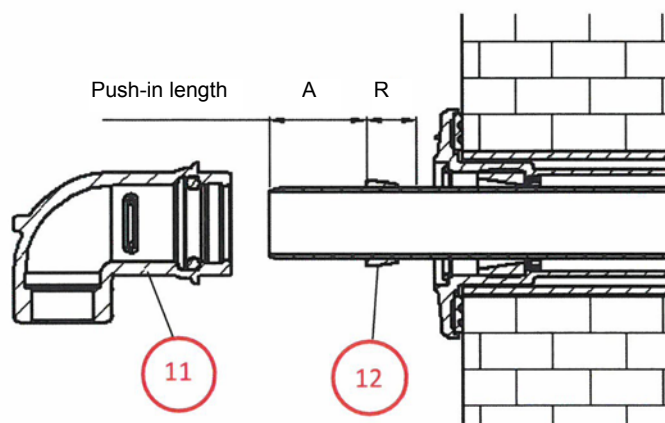
e) Push the pressure flange (6) and the gasket (7) onto the quick-installation pipe entry fitting (1) one by one from the cellar outside. Then screw in the threaded taper ring (9) inside the bracing element (8) as far as it will go, turn it out 1 ½ revolutions (-> to facilitate any dismantling that may be necessary), and push on the bracing element as well. Subsequently, push the grip ring (10) onto the conduit (1) and into the taper of the bracing element (8) as far as it will go, observing the direction of installation. Important: Align the opening of the grip ring (open gap) with the land in the taper.

f) Now brace the quick-installation pipe entry fitting by tightening the bracing element (8) clockwise.

g) Then push the medium pipe (4) through the conduit (1) (with the tapered sleeve gasket (5) put on previously) leaving it to project approx. 700 mm. Use the pipe end without notches and scores on the surface. Cut the pipe at right angles and chamfer it without burrs (chamfering tool ord. no. 598). In case of pipes with very smooth surfaces (e.g. PE-X pipes) we recommend roughening the pipe end only in the area of the grip ring perpendicular to the pipe axis! Spray the PE pipe with Hawle installation spray ord. no. 600 000 0014.

h) For installing the fitting (11), push on the grip ring (12). Observe the push-in length A of the pipe end! Then push the pipe together with the grip ring into the taper towards the cellar outside. Put on the fitting and screw it hand-tight into the female thread of the pipe entry fitting. When PE pipes are installed, support liners must be used.

i) On the cellar outside, press the tapered sleeve gasket (5) firmly into the quick-installation pipe entry fitting (1).



Ø	Roughening area R for PE-X pipe in mm	
	A	R
d32	61	18
d40	68	24
d50	64	26,5

j) Due to the O-ring gasket no sealants are required!

3. Maintenance

The pipe entry fitting does not need any maintenance.

4. Commissioning/Pressure test

After completion of the installation work, the whole pipe entry fitting has to be checked again and subjected to pressure testing in the open trench as specified in the DVGW regulations. Special attention should be paid to the stressless connection of the conduit and a tight fit of the flanges. The flange gaskets must rest flat all over.

If you have any other questions or if you need more information please contact:

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