



Kompakt Solo

Sealing for wall penetrations of gas, water, sewage pipes, and cables against pressing and non-pressing water



AREA OF APPLICATION

Ideal sealing of wall penetrations for gas, water, sewage pipes, and cables.

MATERIAL

Material type: EPDM Rubber

Shore hardness: Shore A 43° ±5

Pressure plates: V2A

Rubber thickness: 40 mm

Bolts: V2A

Alternativ: NBR rubber; Shore A 40° ±5

PROPERTIES

Temperature range: -30 °C bis + 120 °C

UV-resistant: Yes

Pressure-tight: 3 bar

Information: pressure-tight up to 3.0 bar, with an ejection safety device up to 5.0 bar

Alternativ: Temperature range NBR -30 °C to 70 °C not UV-resistant

SIZE

Core drilling 50 bis 400 mm



Building construction



Civil engineering



Water



HVAC



Energy



Oil



Gas



Industry



PRODUCT INFORMATION

FEATURES

- Special applications for different pipe systems
- Consist of stainless steel pressure plate
- All Kompakt Solo split versions are foldable

AREAS OF APPLICATION

- Sealing for wall penetrations of gas, water, sewage pipes and cables
- Against pressing and non-pressing water

PRODUCT DESCRIPTION

The rubber element is compressed by means of two metal discs.

The Kompakt seals the annular space between carrier pipe and casing pipe/core hole against water and gas.



NOTE

- Kompakt seals are not an anchoring point.
- The carrier pipes must be centered and supported.
- A coating system should be used for the core drilling to create a smooth surface and to seal the concrete.
- For long clamping distances, additional hexagonal socket wrenches in a longer design are required.
- The specified values for pressure tightness are valid at 23 °C. For other, especially higher continuous operating temperatures, changing temperatures and permanent pressures, an ejection safety device must be fitted; this also applies to annular spaces larger than 100 mm.
- Please be sure to ask us in advance about the technical feasibility of planned applications for which there is no description (e.g. applications in the biogas or food industry).

RECOMMENDATIONS

- PipeX FZH
- ProteX Epoxy Resin



CERTIFICATES

TEXT

MFPA pressure test Solo Combi: MFPA pressure test Solo Combi

SKZ pressure test Varia: Technical report DDA4/118/94 Component testing of an annular space seal in modular design

Radon tight: Audit report Dr. Joachim Kemske: Radon tight: Audit report Dr. Joachim Kemske

FHRK quality seal FHRK test specifications GE 101 kompakt seals: (Test report no. G 30 322-6-1), closed version Kompakt Solo / Kompakt Temp / Kompakt Super Soft / Kompakt with oversized flange / Kompakt Multicable / Kompakt Varia / Kompakt Blind / Kompakt SpeX / Kompakt Combi



INSTALLATION



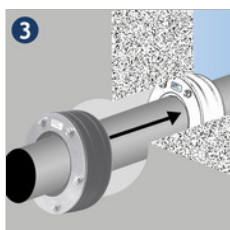
1

Clean casing pipe/core drilling and carrier pipe. Carrier pipes must be suitable, dimensionally stable and without damage in the sealing area. Core drillings have to be made true to scale and with a smooth inner side.



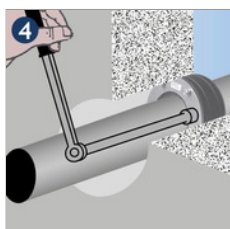
2

We recommend coating core drillings with ProteX epoxy resin in order to protect the concrete and smoothen possible cavities/grooves.



3

Verify the casing pipe/core drilling and carrier pipe diameters based on the sealing kit data. Insert the Kompakt seal into the casing pipe or core drilling flush with the wall and insert the carrier pipe. Care must be taken to ensure the sealing insert is mounted on the outside of the building (tolerance for the carrier pipes).



4

In doing so, the nuts should preferably point to the inside in order to be accessible for subsequent tightening. The Kompakt seal split version is available for subsequent mounting. Tighten the nuts a few turns clockwise. Repeat this procedure two or three times, but not beyond the maximum torque (see table below). Tighten again after half an hour!

If pipelines are already installed, the hinged version (Fig. 1) can be folded out, placed around the pipeline and securely locked with the lock. The split version with puzzle lock (Fig. 2) must be dismantled and mounted on the pipe before installation. Subsequent division of the rubber element (Fig. 3) must be carried out with a sharp cutter knife at an angle to the holes. Thus, the existing pipes and cables can be inserted into the sealing rubber, fix the pressure plates back on the rubber element and finish the installation.



1



2



3

WHAT MUST BE OBSERVED

- The Kompakt seal is not an anchorpoint or pipe support. The seal can only assume a sealing function
- The carrier pipes have to be centred and supported (fixed)
- We recommend reducing the respective maximum torques in case of particularly thin-walled plastic pipes such as flexible casing and corrugated pipes (see table below)
- For long clamping strokes, deep hexagon sockets are additionally required for installation
- All building and pipeline guidelines are to be observed
- Use only in suitable casings acc. table Installation tolerances with suitable sealing surface in the inner wall and suitable rigidity (dimensional stability after installation)

INSTALLATION NOTE

We expressly draw your attention to the fact that the installation must be carried out by an authorized specialist company in accordance with the installation instructions.



RECOMMENDATION

To create a suitable sealing surface, we recommend coating core holes with PSI KB epoxy resin. This serves to protect the concrete and to smooth out any blowholes/grooves

TOOLS

Cleaning material/preparation, measuring tool, torque wrench, aids for markings

Wall opening ID	Carrier pipe OD
50 mm	6 - 12 mm
70 mm	20 - 41 mm
80 mm	20 - 50 mm
100 mm	15 - 65 mm
125 mm	55 - 78 mm
150 mm	46 - 110 mm
200 mm	88 - 160 mm
250 mm	135 - 210 mm
300 mm	178 - 226 mm
350 mm	224 - 282 mm
400 mm	270 - 330 mm

Nuts	Max. Torque	Torque for thin-walled plastic pipes	WR Super Soft	KTW
M 6	5 Nm	5 Nm	3 Nm	8 Nm
M 8	17 Nm for standard seal 20 Nm for standard seal	8 Nm for standard seal 15 Nm for standard seal	5 Nm	12 Nm
M 10	30 Nm	22 Nm	-	25 Nm
M 12	35 Nm	25 Nm	-	30 Nm