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KD 85
Cable Bushing

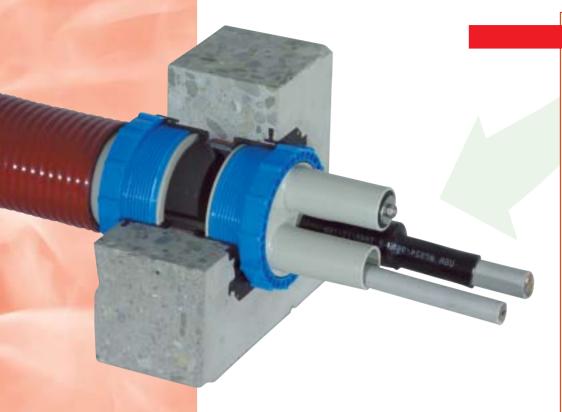




Goding ideas

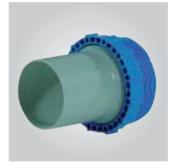
KD 85 Cable Bushing

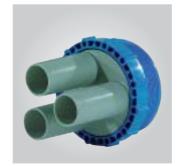
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System KD 85 is suitable for the application of various sealing techniques. The standard design is supplied with heat shrink-on sleeves. As an option, sleeves are also available in cold shrink-on technique KS.

- Cable bushing KD 85 offers compatibility with other systems and is prepared for numerous special solutions.
- For special applications and requirements please contact our technical department.







Cable Bushing KD 85

System KD 85 consists of a sealing collar which is designed as single or double collar and can be assembled into packages by means of the frames around the collar to be imbedded flush into the concrete of the formwork. The frame is provided with nail holes for fixing with stud nails.

In order to prevent voids the multiple wall duct must be completely enclosed by concrete.

When using individual packages the direction of installation has to be determined with the principal or planner prior to concreting.

KD 85 sealing collars will be supplied fitting to the wall thickness of the structural works and are inserted flush into the formwork.
(L = wall thickness in mm)

KD 85 is provided with protective foils and sealing caps. Thus the interior of the sealing collar stays clean during installation and is gas- and watertight immediately after concreting.



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Sealing Collars

System Covers

Application and Function

formwork.

system.

KD 85 sealing collars are undivided plastic elements which will be supplied fitting to the wall thickness to be imbedded flush into the concrete of the

Upon supply each sealing

collar is provided with a

closed cover and is thus

diately after concreting.

gas- and watertight imme-

Permanent sealing towards the concrete is ensured by

subsequent control of the

The frame is provided with

nail holes for easy fixing of

the sealing collar to the

diameter of the sealing

formwork. The inner

collar is 85 mm.

concrete compaction.



Single Sealing Collar

suitable for connection of a system cover or system KSS on one side. Applicable for a wall thickness from 60 mm. Direction of installation has to be determined!

order no.: KD 85-K/L (L) = wall thickness in mm



Double Sealing Collar suitable for connection of a system cover or system KSS on both sides.

Applicable for a wall thickness from 100 mm.

order no.: KD 85-K2/L (L) = wall thickness in mm



System cover with 1 connection piece and appropriate shrink-on sleeve. Design for 1 cable of diameter 26 - 73 mm

order no.: KD 85-D1/75



Single Sealing Collar with pipe connection plug-type sleeve

suitable for connection of a system cover or system KSS on one side. Other side for direct connection of a smooth-walled cable protection tube with an outside diameter of 75 or 110 mm. Minimum wall thickness 150 mm.

order no.: KD 85-SMB-75/(L) KD 85-SMB-110/(L)

(L) = wall thickness in mm

Also available as single sealing collar with pipe connection glue-in sleeve

order no.: KD 85-KMB-75/(L)



Angular Sealing Collar

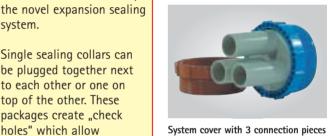
30°, 45° or 60° from any direction. With auxiliary frame and polystyrene also available as package. Minimum



suitable for cables laid at an angle of wedge. Single or double sealing collar wall thickness 200 mm.

 order no.: KD 85-S30-K2/(L) KD 85-S45-K2/(L) KD 85-S60-K2/(L)

(L) = wall thickness in mm



System cover with 3 connection pieces and 3 shrink-on sleeves. Suitable for 3 cables of diameter 12 - 28 mm.

Several joint boxes AK or sealing plugs VS 30 (as blind cover) are available as accessory.

order no.: KD 85-D3/30



System cover with 5 connection pieces and 5 shrink-on sleeves. Suitable for max. 5 cables of diameter 7 - 18 mm. Several joint boxes AK or blind covers VS 20 are available as accessory.

order no.: KD 85-D5/20



Stainless Steel Flange Sealing

suitable for sealing to DIN 18195 part 9 (integral / slip-on type flange design for black basement lining). On both sides connection of system cover or system KSS possible. Also available as package (flange plate). Flange diameter 430 mm Minimum wall thickness 160 mm

order no.: KD 85-KF2/(L)

(L) = wall thickness in mm



Aluminium Flange Sealing Collar AF suitable for sealing in front of diamond tipped drilled holes in walls or ceilings. Supplied with flange gasket, sealing ring, protective cover and fastening elements. Connection of a system cover or system KSS possible. Diameter of diamond tipped drilled hole max. 85 mm. Flange 150 x 150 mm.

order no.: KD 85-AF 150

(L) = wall thickness in mm

We provide replacements for all parts which are impaired in their function due to faults in the material. No replacement for defects that are due to transport or storage or result from faulty processing or installation or the effects thereof. Our specifications are based on the current state of the art. Subject to technical modifications. Due to the amount of possible influences during installation and application our specifications do not release processors and users from checking and testing the material themselves.

Accessory

Application and Function

KD 85 system covers offer various possibilities for sealing cables and cable

protection tubes. They are



System Cover with Sleeve for connection of a cable protection tube with an outside diameter of 75, 85, or 110 mm. Sealing by means of provided shrink-on sleeve.

order no.: KD 85-DM 75
KD 85-DM 85
KD 85-DM 110



System Cover with Plug-type Sleeve for connection of a smooth-walled cable protection tube with an outside diameter of 75 or 110 mm. Sealing by means of sealing lip in the plug-type sleeve.

order no.: KD 85-DSM 75
KD 85-DSM 110



Instead of using a system cover it is also possible to connect flexible cable protection hose systems. For further information see Systems KSS.



Unused cover connection pieces are sealed with sealing plugs and can be subsequently used as spare ducts.

System Cover

installation.

suitable as blind cover for unused

sealing collars. This system cover is

included in the scope of supply of

VMS is available for economical

order no.: KD 85-D

each sealing collar. A square wrench



Three-finger Joint Box AK (heat shrink-on technique) for sealing 3 cables in one cover connection piece.

order no.: AK 35-3F-12/2 for cover KD 85-D3/30 and KD 85-D5/20 and cables with an outside dia. of 2 - 12 mm



Four-finger Joint Box AK (heat shrink-on technique) for sealing 4 cables in one cover connection piece.

order no.: AK 35-4F-13/2 for cover KD 85-D3/30 and KD 85-D5/20 and cables with an outside dia. of 2 - 13 mm



Articulated Face Spanner GSS with adjustable leg. Suitable for mounting all system covers and KSS systems.

order no.: GSS

Square Mounting Wrench VMS suitable for efficiently mounting and dismounting BKD 150, KD 150 and KD 85 blind covers with 1/2" ratchet spanner.

order no.: VMS



Melt-type Adhesive Tape SKB is a cold welding-type tape with very good adhesive properties. Suitable for all cable sheath materials, plastics and metals, for sealing and corrosion

Tape thickness: 1 mm
Tape width: 50 mm
Roll length: 3.30 m

order no.: SKB

protection



Sealing Plugs VS

for sealing unused cover connection pieces. Plugs can be removed for using the connection piece. Available for connection pieces of dia. 20 and 30 mm

order no.: VS 20 VS 30



Cold Shrink-on technique KS for quick and simple installation w

for quick and simple installation without auxiliaries under all weather conditions. Gas- and watertight up to 2 bars. Absorbs tension and pressure loads.

Available for all system covers



Cable Cleaner KR

for ecologically cleaning cables of all types, removes even tenacious dirt. Inodorous, evaporating without residues.

Density at 20 °C: 0,762
Flash point: >+55 °C
Evaporation number: 60
Characteristic value: 0
Duty to mark: none
Packing drum: 1000 ml
5000 ml
5000 ml
spray bottle.

order no.: KR



Packages

Application and Function

Variable Packages

Single sealing collars can be plugged together at random next to each other or one on top of the other.

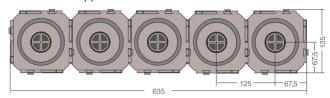
Safety at a Glance

Packages create central check holes which allow subsequent control of the concrete compaction!

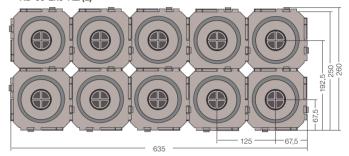
System KD consists of a sealing collar which is designed as single or double collar and can be assembled into packages by means of the frames around the collar to be imbedded flush into the concrete of the formwork

Variable Packages

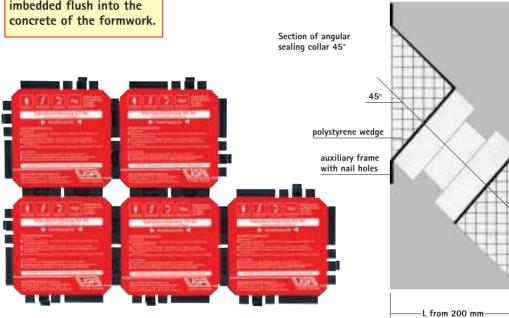
KD 85-1x5-K2/(L)

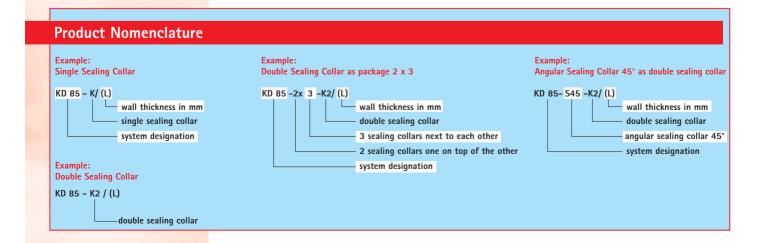


KD 85-2x5-K2/(L)



Angular Sealing Collar





Test Report UGA System KD 85

The tests with system KD were carried out at the Fraunhofer Gesellschaft Bremen (IFAM). These tests were to show if UGA's cable bushings type KD 85 are gas- and watertight.

A special test specimen consisting of a concrete part and a test bell was developed for this test. Sealing collar KD 85 was imbedded into the concrete part with a waterproof concrete. The surface of the concrete part was sealed as this test was to reveal the bonding characteristics of the sealing collar to the concrete and not the tightness of the concrete itself.

All test specimens proved successful in the tests for

gastightness, presswater tightness and presswater tightness at low temperatures.

Three system covers of system KD 85 were tested: the blind cover (KD 85-D), the system cover with one connection piece (KD 85-D1/75) and the system cover with three connection pieces (KD 85-D3/30).

In the presswater tightness test at low temperatures only the system cover with three connection pieces was tested.

In the shock wave test pressure was increased until the cover collapsed.

In the helium test the specimens were checked for gastightness. In this test, the partial pressure of helium in the atmosphere directly after the experimental set-up is to give conclusions about the leakage rate of the system.

In the test for presswater tightness at low temperatures the specimens were checked for presswater tightness (with a water / antifreeze compound solution) at extremely low temperatures for a period of 24 hours.

The obtained results confirm that system KD 85 is an excellent sealing system and exceeds the values demanded for practical purposes by far.

Test Results in Detail

The following tightness tests were carried out:

- gastightness with air at a pressure of 1 bar
- presswater tightness at a pressure of 5 bars
- gastightness with helium at a pressure of 5 bars
- presswater tightness at low temperatures at a pressure of 5 bars at -27°C.
- shock wave test (destructive test)

► Result of Shock Wave Test:

KD 85-D (blind cover) 5.00 bars KD 85-D1/75 20.76 bars KD 85-D3/30 21.15 bars

► Result of Gastightness Test:

Partial pressure (directly after experimental set-up) was 5.4×10^{-6} mbars. This is a very good value as the partial pressure of helium in the atmosphere is ca. 4.8×10^{-6} mbars.

Result of Presswater Tightness Test:
Liquid did not emerge. A feature was made of the optimum structure of the sealing collar and the very good expansion seal which is applied annularly around the sealing collar. This expansion seal guarantees that the connection between sealing collar and concrete does not break when the concrete dries.



Sealing systems and fire protection for cables and pipes

UGA SYSTEM-TECHNIK GmbH & Co.

Technical Systems and Products for integration into buildings

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