

# Stopper Glands

SEALING OF PIPES  
AND CABLES



**GENERAL** Cleanliness of pipes, as well as road pits, energy plant areas and modular enclosures, is accomplished by sealing pipes and cables. This prevents water, mud and feces from penetrating into pipes. Furthermore, this also prevents rodents from nesting in pipes and damaging fiber optic cables and any other cables in the pipe.

#### **INSTALLING THE STOPPER GLAND**

The pipe must initially be cut at a 90 degree angle and then cleaned from any mud remains before simply inserting the stopper gland into the pipe. Pipes can be cut near the road pit wall.

#### **INSTALLING THE STOPPER GLAND ON EXISTING CABLES**

If there is one or more cables already in the pipe, the stopper gland is cut at a marked fillister along its side, the cable is inserted into the opening and then everything is inserted into the pipe. For easier insertion the stopper gland can be greased with soap.

**UPGRADE** By combining larger and smaller stopper glands we can cover all possible cables from 5 mm to 60 mm in diameter.

## SPECIFICATION

Material:	polyurethane
Colour:	RAL 5017 blue
Tensile strength:	2-3Mpa, standard DIN 53504
Sealing:	1m water column/24h - good
Abrasion:	200-400mg DIN 53516
Fire retardancy:	DIN 4102-2-A2
Heat deflection temp.:	-80 °C - +110 °C
Surface flexibility:	40-55 ShA
Chemical resistance:	solvents, cleansing agents, petrol - perseveringly, lye (10% NaOH) and acids, (10% H <sub>2</sub> SO <sub>4</sub> ) - perseveringly
Atest I-LI-121026:	HRN ISO 3302-1, ISO 48:2010 HRN ISO 2781:2008, ISO 32:2005

Stopper glands from the sealing programme cover PEHD pipes at a diameter of 20, 25, 32, 40, 50, 63, 75, 110 and 160 mm as well as ribbed pipes at a diameter of 50, 63, 110 and 200 mm.

The sealing power of stopper glands is 100 % effective if they are undamaged and installed as such on empty pipes. When installing on existing cables, the stopper gland must be cut along the fillister.

For sealing water under pressure with stopper glands, sealing paste should be used.

Place the opened stopper gland on the existing cable. After filling the opening with some paste, push the stopper gland into the pipe. The paste reacts with water and creates a foamy seal. The paste and the stopper gland remain unsolid and can be reused.

Stopper glands can be used on modular enclosures. For proper and effective use of stopper glands, water sealing aids should be used: PASTE 200 for stopper glands and FLORIN DF for protection against moisture for electrical elements and modular enclosures.

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## SELECTION OF STOPPER GLANDS

Scheme	Code	Pipes outer $\phi$	Cable $\phi$
15-20 mm	ČU 20 01 10 15	20	17
15-20 mm	ČU 25 01 10 19	25	17
5-10 mm 10-20 mm	ČU 32 02 05 20	32	24
5-10 mm 10-20 mm 5-10 mm	ČU 40 03 05 20	40	24
18-32 mm	ČU 50 01 18 32	50	36
5-10 mm 10-24 mm	ČU 50 02 05 24	50	28
5-10 mm	ČU 50 07 05 10	50	14
18-32 mm ribbed	ČU 50 01 18 32 R	50	36
18-32 mm ribbed	ČU 63 01 20 32 R	63	36
25-40 mm	ČU 63 01 20 40	63	44
25-40 mm 18-32 mm	ČU 75 03 15 32	75	36
18-32 mm ribbed	ČU 110 03 22 40 R	110	44
25-40 mm	ČU 110 03 18 40	110	44
16-20 mm 32-44 mm	ČU 110 04 18 40	110	44
15-20 mm 18-32 mm	ČU 110 09 15 32	110	44
15-80 mm	ČU 110 02 15 80	110	80
25-40 mm	ČU 160 03 20 40	160	44
35-50 mm ribbed	ČU 200 03 35 50 R	200	54

## SEALING AIDS

1	<b>paste 200</b>	ČU 00 PAST 200	pack.	310mL
2	<b>paste 200</b>	ČU 01 PAST 200	pack.	530mL
3	<b>spray DF</b>	ČU 02 FLORIN DF	pack.	400mL