

## Packers per iniezione



### II) 2) Connettori



I connettori servono a collegare i packers al tubo .

### II) 3) Connettore ad aggancio



Il connettore ad aggancio serve a collegare il packer con il nipplo a testa piatta (PM) sul tubo.  
Il connettore ad aggancio viene fornito in 2 misure:  
Ø 10 mm e Ø 16 mm.

## II) 4) Connettori per iniezioni di prodotti cementizi

### II) 4) A) Nipplo testa piatta M 32



Il nipplo a testa piatta M 32 è determinante per la maggior parte delle iniezioni di prodotti cementizi.

Il diametro interno è di 8 mm.

Viene prodotto con filetto M10x1.

Su richiesta del cliente, siamo in grado di fornirlo con altre misure di filetto.

La chiusura del nipplo avviene per mezzo di una classica sfera con relativa molla.

Il nipplo a testa piatta M 32 è connesso al packer OPD senza il nipplo marcato come OPD xx/xxx-Š-10.

La connessione sul tubo del prodotto avviene per mezzo del connettore ad aggancio M32.



## III) Packers

### III) 1) Steel packers KOMBI

#### III) 1) A) Steel packers OPK KOMBI



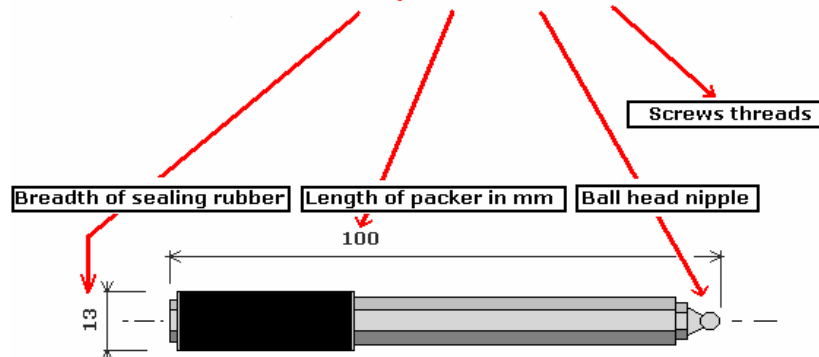
The steel grouting packers OPK are produced in three basic versions, namely M5, M6 and M8.

#### Recommended working pressures :

OPK version M5	15 MPa (150 bars)
OPK version M6	20 MPa (200 bars)
OPK version M8	35 MPa (350 bars)

### Packer's name designation

**OPK 13 / 100 - M - 6**



Packers are fitted with the nipple, which ensures the clack-valve function. The connection of the OPK packer onto the grouting pump hose is done by means of the coupler. The diameters of the sealing rubber are from 10 mm to 17 mm. The lengths of the OPK are from 70 mm to 500 mm.



Dismantling of the OPK packer is due to its construction very easy.

The assortment of packers is stated in the price list.

**III) 1) B) Steel packer OPK with flat-head nipple (OPK-PM)**

The packer is fitted with a flat-head nipple with a diameter of 16 mm.  
The connection of the packer OPK-PM onto the grouting pump's hose is carried out by means of the 16 mm hook-on-coupler.

**III) 1) C) Steel packer OPK with double-valve (OPK-DV)**

The packer is fitted with second clack-valve placed in the head of the packer.  
It is possible to remove the hexagonal nut of the packer after the grouting and treat the grouted place immediately.

## III) 2) Steel packers with double-casing

### III) 2) A) Steel packers OPD with double-casing



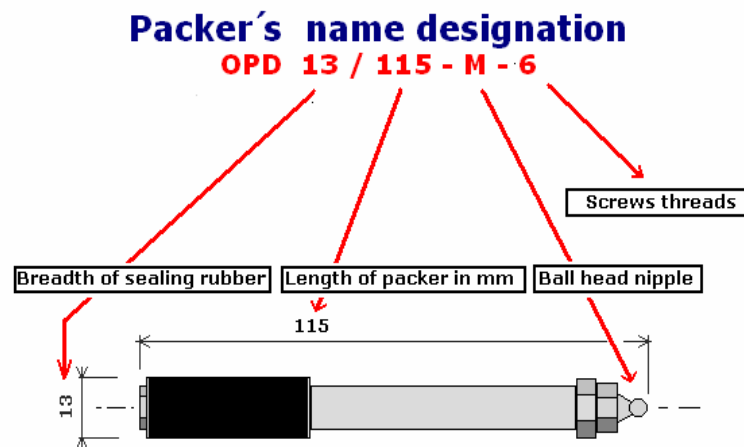
The steel grouting packers with double-casing are produced in four basic variants, namely M5, M6, M8, M10.

#### Recommended working pressures :

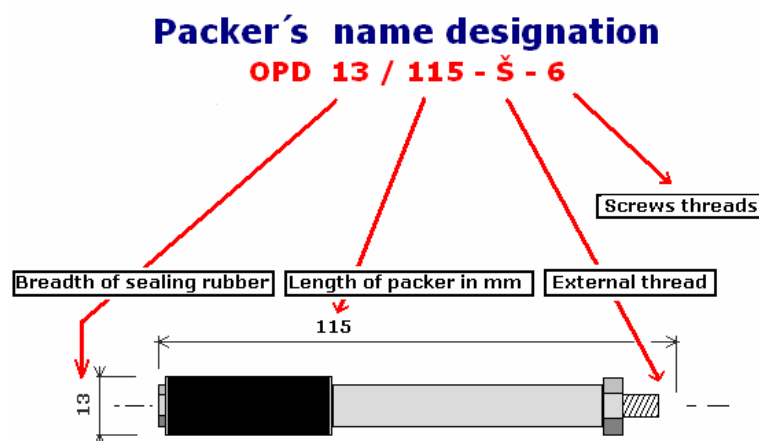
OPD version M5	15 MPa (150 bars)
OPD version M6	20 MPa (200 bars)
OPD version M8	35 MPa (350 bars)
OPD version M10	40 MPa (400 bars)

The connection onto the grouting pump's hose is done by means of the coupler.

*Packers are ended either with a nipple that ensures the function of the clack-valve,*



*or with a screw M5, M6, M8 or M10 according to a version without any clack-valve.*



The connection onto the grouting pump hose is carried out directly onto the mixing gun with the bored thread of an appropriate size. The diameters of the sealing rubbers are from 8 mm to 19 mm. The OPD lengths are selected optimally according to the massif, into which they will be placed into from 70 mm to 500 mm.

The assortment of packers is stated in the price list.

III) 2) B) **Steel packers with double-casing with flat-head nipple**  
**( OPD-PM )**



The packer is fitted with a flat-head nipple with a diameter of 16 mm.  
 The connection of the OPD-PM packer onto the grouting pump hose is done by means of the hook-on-coupler 16 mm.

III) 2) C) **Steel packer with double-casing with tightening fly nut**  
**( OPD-KUM )**



The packer is fitted with tightening fly nut.

III) 2) D) **Steel packer with double-casing with fly nut**  
**( OPD-KM )**



Packer is fitted with a fly nut.

III) 2) E) Steel packer with double-casing, special break point and double-valve (OPD-DV)



It is a special system, which enables to dismount the packer immediately after the grouting. The fixation of the packer into the bored hole is carried out by means of the socket wrench M9. After tightening of the packer in the bored hole, two recesses behind the nut are uncovered which enable an easy break of the grouting packer.

III) 2) F) Gel packer (18/600-M-10 PMk KM)



It is a special double-casing packer determined for the grouting with the gel materials. The gel packers could be fitted on the request with double rubber sealing. This packer is characterized by large inner diameter of c. 6 mm.

III) 2) G) Packer NT



It is a special packer determined for low-pressure grouting, i.e. into the joints between the tiles. The bored hole diameter is 6 mm for this packer. **Recommended working pressure is :** to 5 Mpa (50 bars).

### III) 4) Aluminum packers

#### III) 4) A) Aluminum packer ( APD )



It is produced in a version M8.  
Recommended working pressure:  
20 MPa (200 bars).

#### III) 4) B) Aluminum packers with double-valve ( APD - DV )



It is a specially developed packer that enables its immediate dismounting after the grouting.



## IV) Plastic injectors

### IV) 1) Plastic injector 12 mm SK



It is used for a pressure-less and low-pressure grouting to 10 MPa (100 bars).  
Impact plastic injector SK is fitted with the clack-valve.

### IV) 2) Plastic injector 12 mm BK



It is used for pressure-less and low-pressure grouting to 10 MPa (100 bars).  
Impact plastic injector BK isn't fitted with the clack-valve.

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