# Inflatable Packers - BCH

## Packers

**MODULAR DESIGN**
**SIMPLE OR DOUBLE PACKER**
**FROM 28 MM TO 170 MM**

**Tough, versatile, adapted to a wide range of hole diameters, the packers are ideal for water sampling projects, permeability tests, and grout injection localized in a precise zone of a borehole.**

### Description

The **BCH** series of inflatable packers consist of an inflatable membrane, fitted with swaged steel collars, mounted on a stainless steel center tube. They can be inflated with a variety of fluids such as water, air, nitrogen, etc., to provide a tight seal in holes or casings. The membrane flexibility and the range of pressures ensure a tight fit against irregular rugged walls. The same size packer will fit a wide range of hole diameters. Single units can be converted to double packers.

The membrane element consists of a rubber reinforced with extensible steel fabric, and covered with an additional layer of abrasion resistant rubber. Threaded swaged collars terminate both ends of the gland. The collars are used to thread the gland onto packer heads which are mounted on the center tube. One of the heads is fixed and contains the inflation port. The other head is free to move, allowing the highly reinforced gland to retract about the center tube as it inflates. An NPT pipe thread terminates the top end of the center tube. An assembly is available for use with wireline equipment.

### Key Features

- Steel cable reinforced natural rubber membrane
- NPT pipe thread
- Modular design: single packers are easily converted to double packers
- Double packer test zone length easily adjustable
- Suitable for sleeved grouting pipes (TAM)
- In the field replaceable packer membrane

### Applications

- Permeability testing
- Pressure grouting in fractured or unconsolidated formations
- Water infusion for dust control in coal mines
- Methane gas control and collection in mines
- Sealing elements in soil or rock boreholes
- Water sampling testing in rock formations
- Hydraulic fracturing of formations
- Quality control testing of tubes

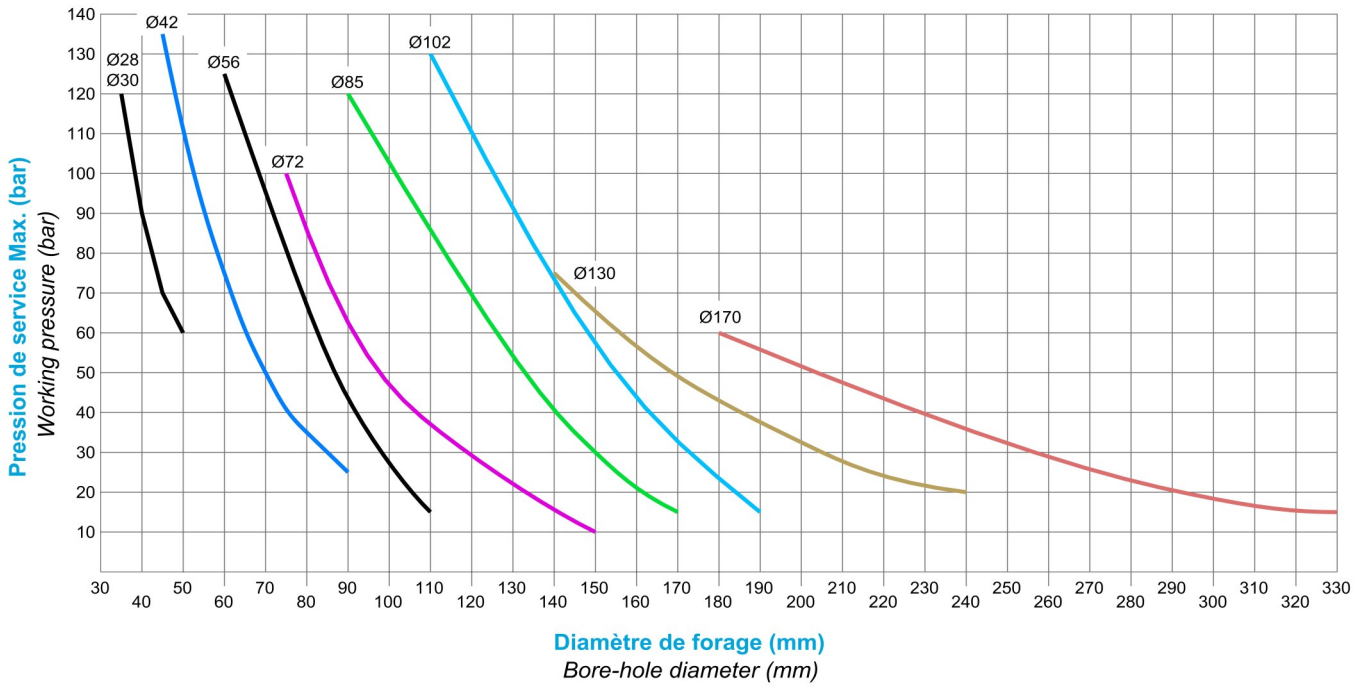
## Specifications

**TYPES AND DIMENSIONS**

| MODEL | Nominal Dia. (mm) | Center tube ID (mm) | Center tube connection | Expansion Max. Dia (mm) |
|---|---|---|---|---|
| **BCH28** | 28 | 8 | 3/8" BSPT | 50 |
| **BCH30** | 30 | 8 | 3/8" BSPT | 50 |
| **BCH42-44** | 42-44 | 12 | 3/8" BSPT | 98 |
| **BCH56** | 56 | 20 | 3/4" BSPT | 125 |
| **BCH72** | 72 | 35 | 1-1/4" BSPT | 160 |
| **BCH85** | 85 | 35 | 1-1/4" BSPT | 185 |
| **BCH102** | 102 | 50 | 2" BSPT | 200 |
| **BCH130** | 130 | 80 | 3" BSPT | 270 |
| **BCH170** | 170 | 80 | 3" BSPT | 330 |

Rubber membrane length: 500 mm and 1000 mm for all diameters from 28 to 170 mm. 300 mm available for 28, 30 and 42mm.

### Maximum working pressure (bar) vs borehole diameter (mm)




## Ordering information

Please specify:

- Model
- Rubber membrane length
- Single or double configuration
- Double packer test zone length
- Application (permeability, grout injection, wireline, other)

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Smartec SA reserves the right to make any changes in the specifications without prior notice



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