



## - SNAPLOC® Standard Program Key Facts

**BOLLHOFF**



Good2Know –  
Video

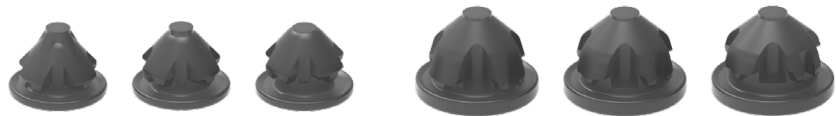
[https://www.boellhoff.com/  
videos/en/good2know/snaploc/  
standard-program](https://www.boellhoff.com/videos/en/good2know/snaploc/standard-program)

### Joining technology

### Vibration- and noise-decoupling plug-in connection – plate fastening

#### Portfolio

#### Couplings



Thermoplastic  
elastomere  
(TPE – up to 100°C)

4 Shore A  
hardnesses  
60 | 70 | 78 |  
87 (ball diameter 7)

2 ball diameters  
7 or 10 mm

3 sheet thicknesses  
1-2 | 2,1-3 | 3,1-4 mm

#### Ball studs



Thread  
M6 x 12 mm

Hex drive at  
base

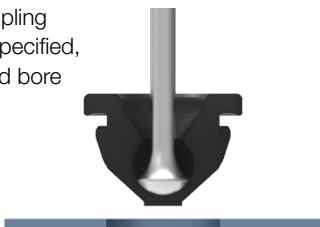
ZnNi coating

2 ball diameters  
7 or 10 mm

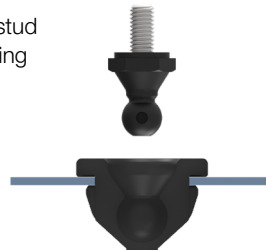
4 functional lengths  
16,5 | 20 | 25 | 30 mm

#### Assembly process

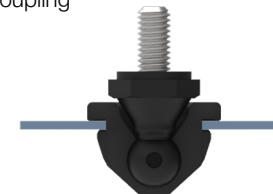
1) Push coupling  
into the specified,  
toleranced bore



2) Align ball stud  
and coupling



3) Plug ball stud  
into coupling



#### System

Two-piece plug-in system consisting of a hard plastic ball stud and a matching elastomeric coupling. Within the standard range, all ball studs are compatible with every coupling if they have the same ball diameter. Therefore, they can be combined freely to meet your requirements.

#### Benefits

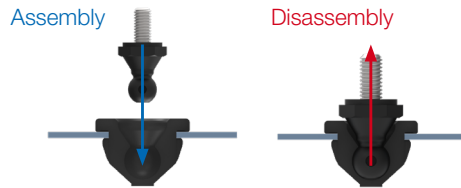
- Vibration decoupling
- Noise reduction
- Electrically insulating
- Fast and easy installation/removal
- Without tool
- Tolerance compensation in the centre distances



Product  
catalogue

[https://www.boellhoff.com/  
en/pdf/snaploc](https://www.boellhoff.com/en/pdf/snaploc)

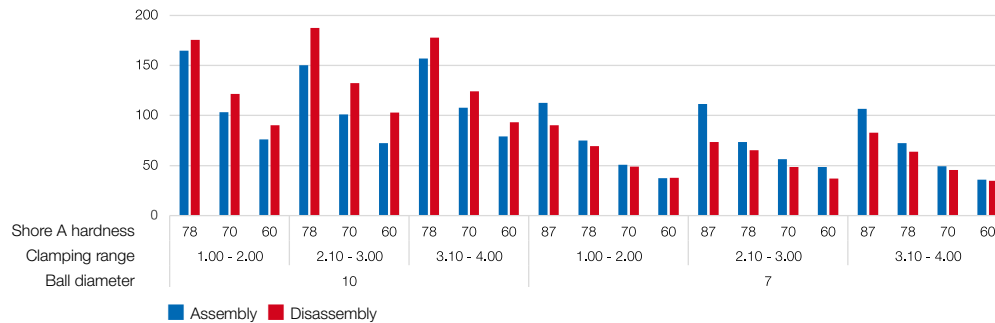
## Joint strength



Functional test of the SNAPLOC® system. The ball stud is axially plugged into and pulled out of the coupling.

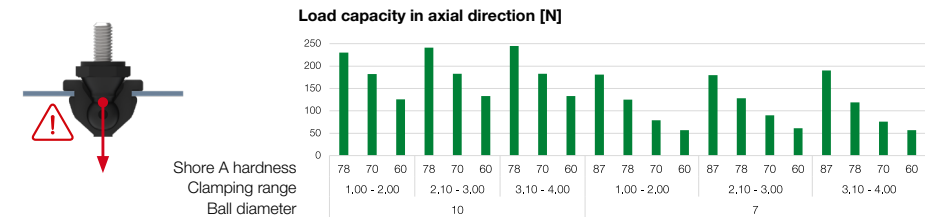
- Forces increase with increasing ball stud diameters
- Forces increase when choosing harder material

Assembly and disassembly forces at room temperature [N]



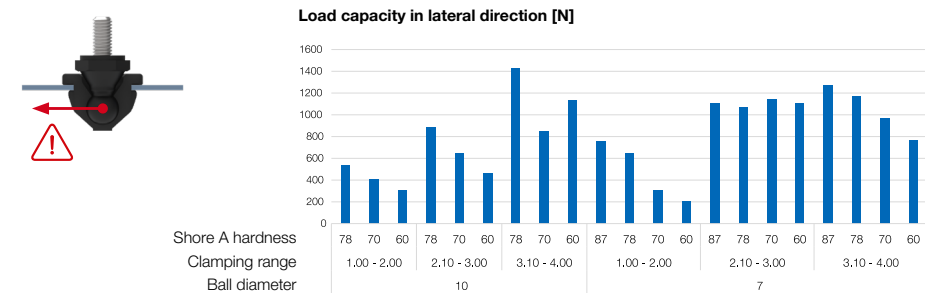
## Load capacity

Axial or lateral force is applied to the ball stud until a system part, usually the coupling, fails.



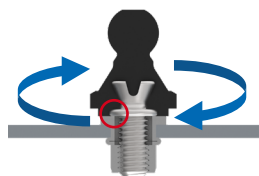
Possible types of failure:

- 1) Coupling slips through hole
- 2) Ball stud punctures coupling
- 3) Collision of stud and coupling



Type of failure: Mechanical damage to the coupling at the clamping geometry

## Max. torque



Property class 8.8

(applicable for all M6 variants)

During screwing, a counter layer for the metal locating surface of the stud hexagon is required.

## Max. radial force



One directional force is applied to the ball of the stud until failure, which is usually a breakage in the shaft area.

