

## Product description VOSS quick connect system 203

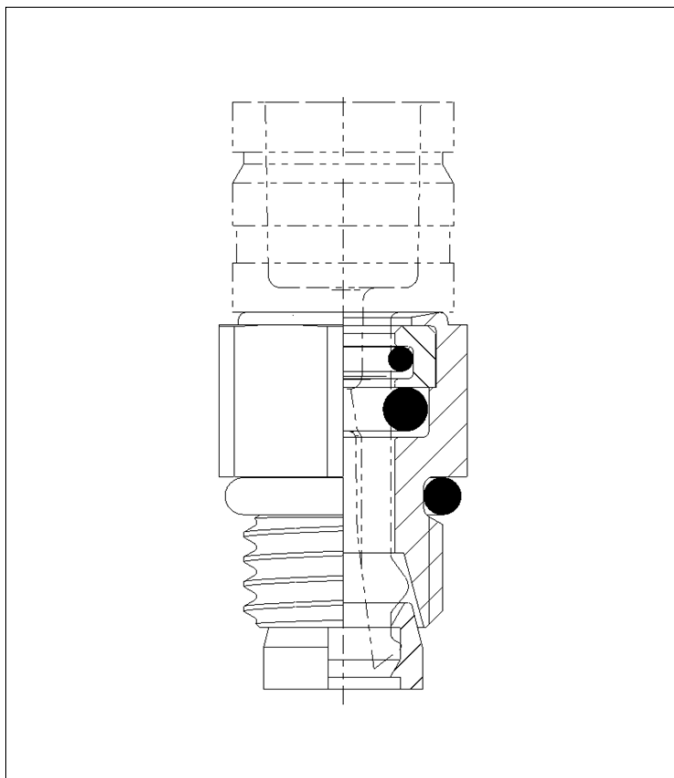


Fig. 1: Functional drawing

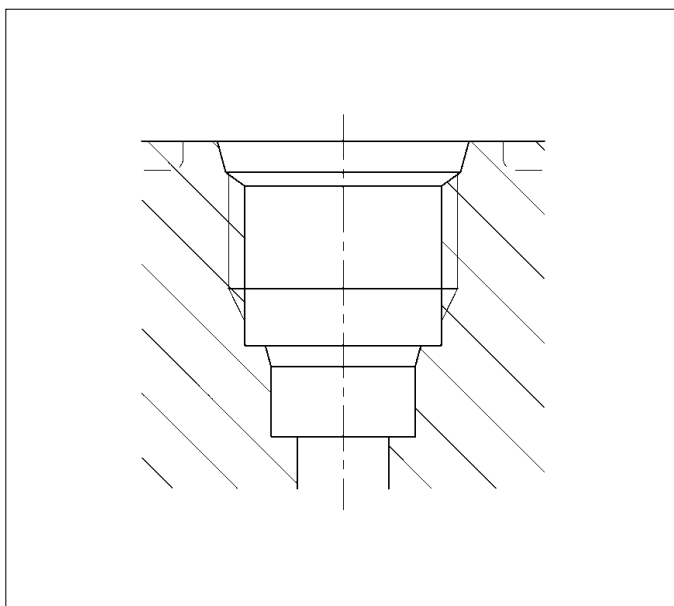


Fig. 2: Stepped bore

### 1. Application

The VOSS quick connect system 203 enables rapid and safe assembly of nylon tubing in air suspension, fuel and auxiliary systems.

The quick connect system 203 is available in different models (integrated assemblies fig.1, straight fitting and moldings with standard stud thread fig. 4+5) and for 4x1 and 6x1 nylon tubing.

The integrated design features low overall height and is particularly suitable for direct connection to units in restricted installation environments.

A precondition for the use of the integrated model is that the tapped holes in the unit are designed as stepped bores (fig. 2)

The molded port may be of plastic or metal. Dimensional drawings can be supplied on request.

Detailed information is contained in Catalogue 203.

The system is suitable for tubing made of polyamide 11, polyamide 12 or TEEE (Hytrel) conforming to the following standards:

- DIN 74324
- DIN 73378
- ISO 7628
- NFR 12-632
- SAE J 844

### 2. Range of application

The VOSS quick connect system 203 is designed for use in the -40°C to +100°C temperature range; special design up to +125°C.

Its rated operating pressure is 18 bar, but due attention must be paid to the compressive strength of the nylon tubing used.

Possible applications for other operating conditions are available on request.

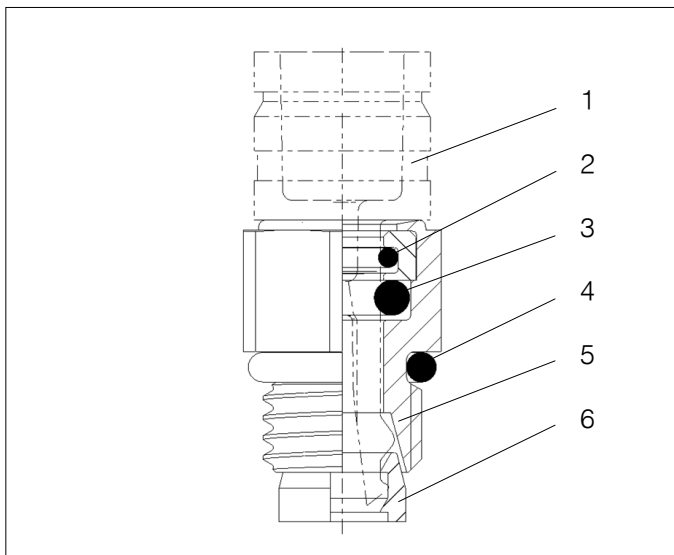
### 3. Functional description

The nylon tubing can be fully inserted into the connection without the use of additional equipment.

The fitted tube is sealed against medium leakage by way of an O-ring.

A second O-ring prevents any contamination from penetrating the connection from outside.

The grip ring has the function of retaining the fitted tube in place in the connection.



#### 4. Single components/ Materials (fig. 3)

- 1 Assembly plug  
Plastic
- 2 Dirt-protection O-ring\*
- 3 Sealing O-Ring\*
- 4 Thread-sealing O-ring\*
- 5 Male fitting  
Brass
- 6 Grip ring  
Brass

\* Depending on tempera-  
ture and medium

Fig. 3: Single components

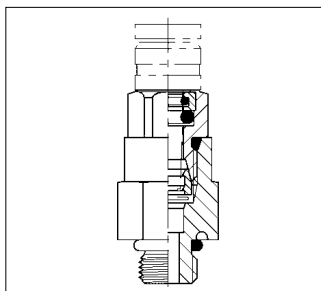


Fig. 4

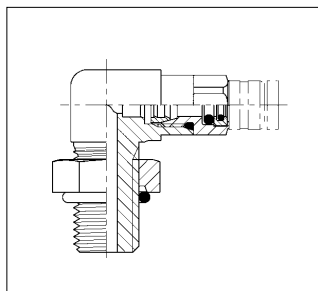


Fig. 5

#### 5. Straight connections and moldings

Fig. 4 shows a straight connection with the integrated assembly screwed into a stud with a matching molded port.

Figs. 5-8 show moldings in the form of studs or manifold ports with fitted integrated assemblies.

Straight fittings and moldings are available with different stud threads.

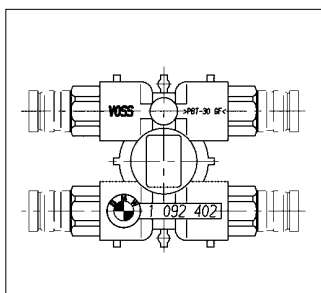


Fig. 6

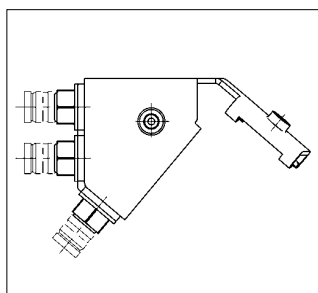


Fig. 7

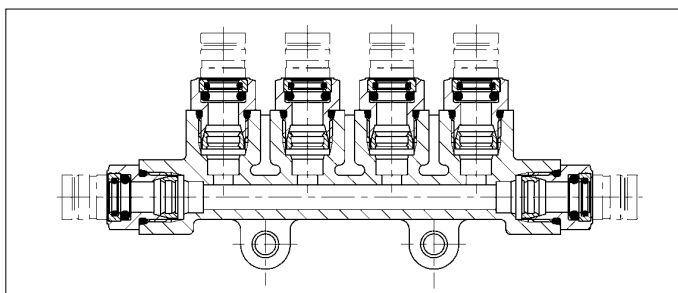


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