

# suprem fittings

Raccorderia Supreme

by Quapus SA srl



sprinkler

  
**irrigation**  
SYSTEMS LTD.

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[www.sprinkler-irrigation.co.uk](http://www.sprinkler-irrigation.co.uk)

## Where there is water

We have been operating for over 40 years in the field of pressurised water circulation.

Our products have been designed and manufactured for :

- Optimize the use and performances in water reticulation plants
- Speed installation and simple product handling
- Installation cost reduction
- Handling plant reduction costs

## Dove c'è acqua

Operiamo da oltre 40 anni nel settore della circolazione d'acqua in pressione.

Utilizzando i NOSTRI prodotti sarete in grado di:

- ottimizzare l'utilizzo e le prestazioni delle condotte idriche,
- aumentare la velocità e semplicità d'installazione,
- ridurre i costi montaggio,
- ridurre i costi di gestione dell'impianto.



## S16 COMPRESSION FITTINGS - INTRODUCTION

**S 16** compression fittings for pressure piping applications are characterized by the Innovative Balance Sealing System Poseidon (pat pending): thanks to the new technical design it is possible to balance the sealing action towards the pipe through the different tightening of the nut. This leads to the maximum safety in all the possible conditions of use and quality of the pipe, keeping the basic features of easy and fast assembly without any particular preparation of the pipe.

**Product range:** d.16-110mm, all the common items for piping applications.

### Main applications

Water supply, house connection and water treatment plants, sport plants irrigation and gardening, agriculture and horticulture irrigation.

### Technical specifications

Materials:

top quality raw materials are used, this makes the S 16 fittings highly resistant and reliable in time, suitable for drinking water and environment compatible.

**Body, nut, thrust ring:** virgin polypropylene (PP-B), high mechanical resistance and thermal stability in course of time. For coloured nuts, top UV resistant master-batch are used (grade 8- ASTM D2565)

**Grip ring:** copolymer polyacetal resin (POM), white colour

**Conical gasket:** rubber NBR or EPDM, hardness 70sh, black colour

**Reinforcement ring:** only for female threads  $\geq 1\frac{1}{2}$ , stainless steel AISI 430

### Standards

**Dimensions, features and functional tests:** UNI 9561, EN712 - EN713 - EN715 - EN911, ISO3458 – ISO3459 – ISO3501 – ISO3503 – ISO14236, ISO17885, DIN8076.3, AS/NZS 4129, BRL K534-03

**Pipe compatibility, PE-HD (PE63-80-100), PE-LD, PEX-a:** UNI10910, EN12201-1, ISO4427, DIN8072 - DIN8074, AS/NZS4130, BS6572 – BS6730, UNI7990

**Sealing threads (male and female):** EN10226-1 (ex ISO7/1), DIN2999.1, BS21, AS/NZS1722.1

**Flange:** ISO7005, DIN2501 – DIN8063.

### Working temperature

-10 / +45°C

### Nominal pressure (PN) and product approvals

S 16 fittings are designed and suitable to be used at PN16 pressure rate; fittings are tested and certified by major international approval institutions, such as DVGW (Germany), IIP (Italy), WM (Australia), Kiwa (Holland) Wras (UK), Acs (France), Sabs (Rsa), Eta (Denmark).

### Working pressure and temperature

temperatura C°	-10 / +25°C	+26/+35 °C	+36/+45 °C
PN	16	12,5	10
PN	12,5	10	8
PN	10	8	6

### Drinking water

Poseidon fittings are suitable to be in contact with potable water, according to the main international sanitary requirements, such as: Circolare n.102 del 2.12.1978, DM 21.3.1973 e DM174 del 6.4.2004 (Italy); Mitteilungen aus dem Bundesgesundheitsamt 108-109 mitteilung – KTW-D2 (Germany); Kiwa-ATA (Holland); AS4020 (Australia), FDA (USA), Bs6920 (UK).

## S16 COMPRESSION FITTINGS - ASSEMBLY INSTRUCTIONS

### 1. Pipe preparation and nut unscrew

Cut the pipe square and remove the burrs; we suggest to chamfer it for  $d \geq 75\text{mm}$ . Unscrew the nut to the last thread, leave it on the fitting while inserting the pipe.



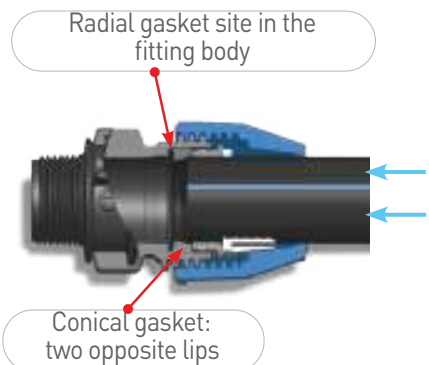
### 2. Pipe insertion up to the first pipe stop

Twist the pipe into the fitting through the grip ring till the first stop: the pipe has reached the conical gasket

#### Balance sealing system

The conical gasket has two opposite lips that allows:

- The easier pipe insertion
- The right placing of the gasket in the body radial site
- The better adaptability of the gasket towards the body and the pipe wall (large contact pipe surface)

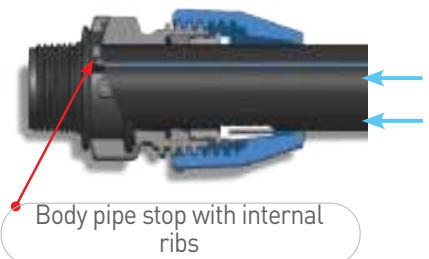


### 3. Pipe insertion up to the body pipe stop

Push the pipe through the gasket till the second stop, You have reached the pipe stop ribs of the fitting.

#### Balance sealing system

The radial body site and the conical gasket are designed to keep the gasket lightly up in the site: after the pipe insertion it doesn't reach directly the body pipe stop, it also remains a little raised from the pipe stop thanks to the internal ribs in the body

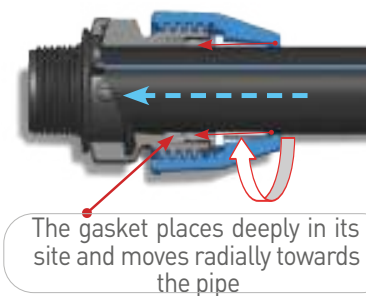


### 4. Screwing the nut

Tighten the nut firmly, by hand or standard tool up to 32mm, by standard tool or dedicated Supreme wrench for  $d \geq 40\text{mm}$ ; the pipe moves to the very final body stop

#### Balance sealing system

By tightening the nut it works on the thrust ring that push the gasket, meanwhile the pipe is moving to the final stop in the body: the gasket can deeply place in its site also moving radially and increasing its compression towards the pipe wall, as much as it's possible in relation to the dimensional and geometrical features of the pipe. In this way, acting on the tightening level of the nut, it is possible to realize a system able to balance pipe defects such as undersize, ovalization and little rules



## APPROVALS - CERTIFICAZIONI



HOLLAND



WaterMark

AUSTRALIA



ITALY



GERMANY



UK



FRANCE



SOUTH AFRICA

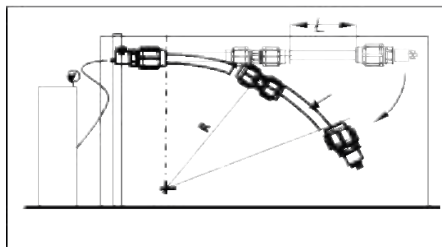


Danmark



SWITZERLAND

Bending test  
Test in curvatura  
48b, 1h, 20°C



Pull-out test  
Resistenza alla trazione  
d.63mm 1220kgf  
d.110 mm 2530 kgf

