Compression Fittings S16

Raccordi a compressione S16

supremo fittings

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 suppply, house connection and water treatment plants, sport plants irrigation and gardening, agricolture and horticolture 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 >= 1"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).

RACCORDI A COMPRESSIONE S16 - GENERALITA'

I raccordi della linea S 16, destinati al trasporto di fluidi in pressione, sono caratterizzati dall' Innovativo sistema di funzionamento Poseidon (pat pending) che rende possibile bilanciare l'azione di tenuta sul tubo agendo sul livello di avvitamento della ghiera: si ottiene in questo modo la massima sicurezza di funzionamento in tutte le possibili condizioni d'uso e caratteristiche qualitative del tubo. Il raccordo si caratterizza anche per il facile e veloce montaggio, che non richiede alcuna preparazione particolare del tubo. **Gamma prodotto:** range dimensionale d.16-110mm, tutte le diverse geometrie applicative.

Applicazioni principali

Distribuzione dell'acqua potabile ed impianti trattamento acque, irrigazione sportiva e da giardino, irrigazione agricola ed orticoltura.

Informazioni tecniche

Materiali:
per la produzione dei raccordi S 16 **si utilizzano materie prime di alta qualità** che conferiscono al raccordo caratteristiche di resistenza ed affidabilità nel tempo, idoneità al contatto con l'acqua potabile e compatibilità ambientale.
Corpi, ghiere ed anelli di spinta: polipropilene copolimero vergine (PP-B) ad alta resistenza meccanica ed elevato grado di stabilità nel tempo. Per le ghiere colorate si utilizzano master ad alta resistenza ai raggi UV (grado 8- ASTM D2565)
Anelli di graffaggio: resina poliacetalica (POM) copolimero neutro, colore bianco
Guarnizioni coniche: gomma NBR o EPDM, durezza 70sh, colore nero
Anelle di blindatura: solo sui filetti femmina >= 1"1/2, acciaio inox AISI 430

Standards di riferimento

Dimensioni, caratteristiche e test funzionali: UNI 9561, EN712 - EN713 - EN715 - EN911, ISO3458 – ISO3459 – ISO3501 – ISO3503 – ISO14236, ISO17885 , DIN8076.3, AS/NZS 4129, BRL K534-03
Compatibilità tubi PE-HD (PE63-80-100), PE-LD, PEX-a: UNI10910, EN12201-1, ISO4427, DIN8072 - DIN8074, AS/NZS4130, BS6572 – BS6730, UNI7990
Filetti di tenuta idraulica (maschio e femmina): EN10226-1 (ex ISO7/1), DIN2999.1, BS21, AS/NZS1722.1
Flange: ISO7005, DIN2501 – DIN8063.

Temperatura di utilizzo

-10 / +45°C

Pressione nominale (pn) e marchi di qualità

I raccordi della linea S 16 sono progettati ed idonei all'utilizzo con requisito PN16; sono testati ed approvati dai principali istituti internazionali di certificazione come il DVGW (Germania), IIP(Italia), WM (Australia), Kiwa (Olanda), Wras (UK), Acs (Francia), Sabs (Sud Africa), Eta (Danimarca).

Pressione massima di esercizio al variare della temperatura di utilizzo

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

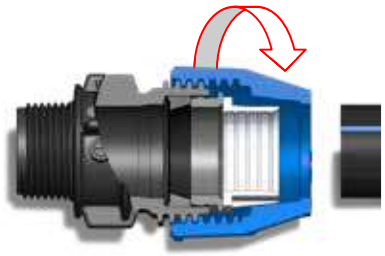
Acqua potabile

I raccordi S16 sono idonei al contatto con l'acqua potabile secondo le vigenti prescrizioni internazionali : Circolare n.102 del 2.12.1978, DM 21.3.1973 e DM174 del 6.4.2004 (Italia); Mitteilungen aus dem Bundesgesundheitsamt 108-109 mitteilung – KTW-D2 (Germania); Kiwa-ATA (Olanda); 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≥75mm. Unscrew the nut to the last thread, leave it on the fitting while inserting the pipe.



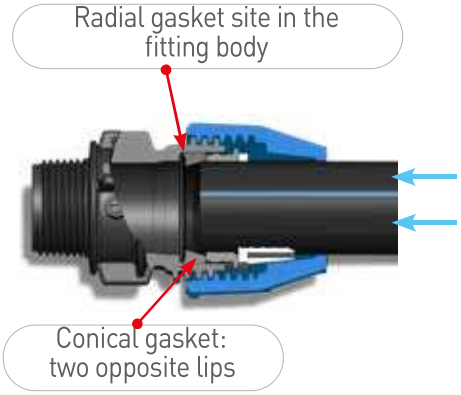
2. Pipe insertion up to the first pipe stop

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≥40mm; 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