

CHECK STRAIGHT COUPLING

UNIQUE um
on the market



The **check valve straight coupling** is a PP fitting for PE piping, developed and **patented by Hidroten** to prevent backflow and minimise the effects of water hammer within the system.

Its hydraulic closing mechanism ensures reliable operation with minimal pressure loss and maximum sealing performance, providing enhanced safety, reliability and protection for the hydraulic network.

The **compression fitting connection** system enables fast and secure installation on PE pipes while simplifying both assembly and maintenance operations.

Features

- ACS certified for drinking water applications (France).
- Greater length compared to a conventional straight connector.
- New Fast seal from Ø40 to Ø63.
- Integrates two functions in a single fitting: connection and check valve system.
- Safety tapered thread between the nut and the body, reinforcing the mechanical strength of the joint and improving tensile resistance.
- Faster assembly and disassembly thanks to the integrated grip ring in the seal clamp and the reduced number of components.
- Sizes from Ø20 to Ø63.
- Nominal pressure: PN 16 bar.
- Closing pressure: 0.1–0.2 bar.

Applications

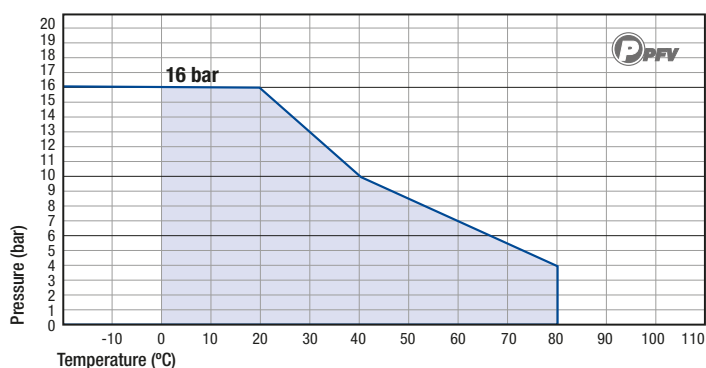
Main applications in the following sectors:

- Gardening, agriculture, swimming pools and water treatment systems.

PATENTED
BY HIDROTEN, S.A.



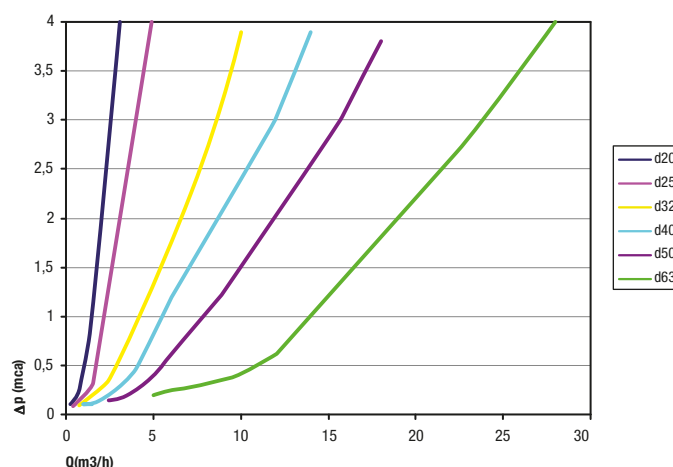
PRESSURE / TEMPERATURE



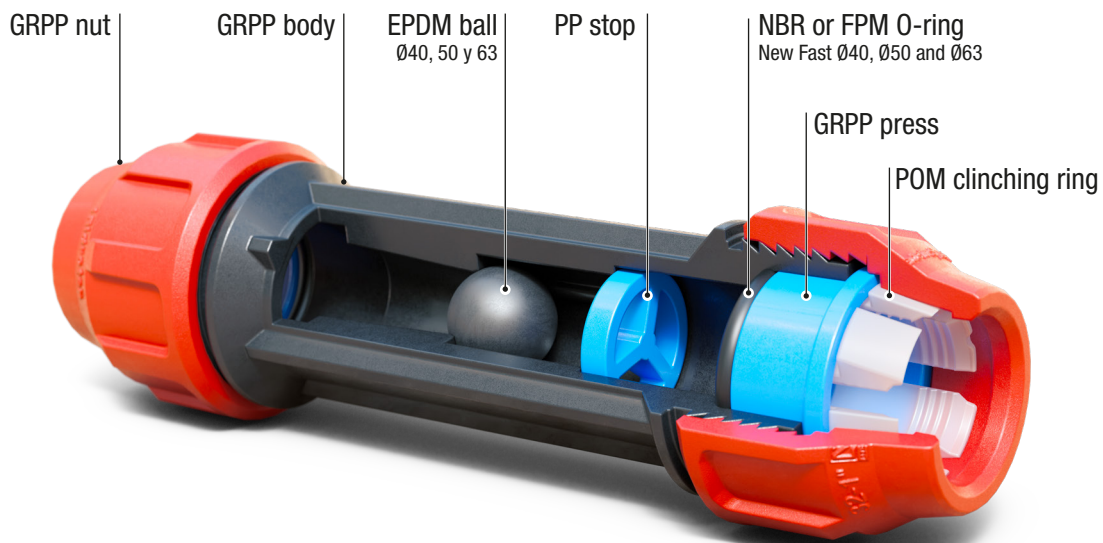
www.hidroten.es
comercial@hidroten.es
export@hidroten.es
marketing@hidroten.es

S.A.T.C.
 Servicio Asesoría Técnica Comercial
 Tel. (+34) 966 105 888

PRESSURE LOSS



COMPONENTS



MAINTENANCE



1. Loosen the nut located in the direction indicated by the FLOW arrow.



2. Remove the pipe together with the grip ring-sleeve assembly and the O-ring.



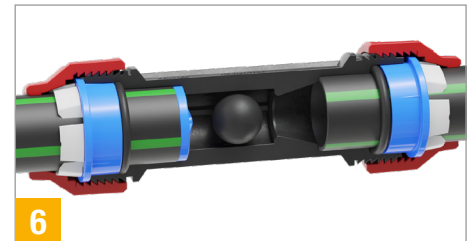
3. Remove the conical stop and check that the conical side is facing towards the inside of the sleeve.



4. Remove the retaining element from the inside.



5. Clean the seal and its seat to remove any dirt that could affect the tightness or operation of the system.



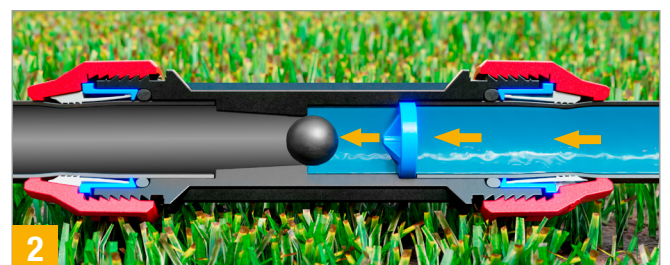
6. Reassemble all the components in the reverse order of disassembly and check that each part is correctly positioned.

OPERATION

EPDM ball for Ø40, Ø50 and Ø63.



The illustration shows the cross-section of a fitting check coupling with flow passing through.



The following illustration shows the retaining function of the coupling in response to flow reversal.