

iJOINT

Compression
Fittings



+GF+

GEORG FISCHER
PIPING SYSTEMS

Benefits

iJOINT, the new generation of polypropylene compression fittings, combines the best in jointing technology – for both push-fit and compression.

iJOINT is the result of GF Piping Systems' unremitting commitment to continuous improvement and a culture based on innovation and ingenuity. The innovative design provides essential benefits like fast, forgiving and effort-free installation methods in challenging trench and weather situations, ensuring maximum lifetime for top performance in water applications. The iJOINT range contains straight and reducing joiners, tees, elbows, threaded connectors and end caps, ranging from d20 to d110 mm.



Fast and easy installation

The clamp ring made of polyacetal does not come into contact with the pipe during insertion or removal of the pipe and there is no need in any situation to disassemble the iJOINT fitting before installation. This combined with a defined stop position for the nut and that the nut can be fixed with less than one turn makes installation extremely easy. No special tools or equipment are necessary for installation.



High resistance and no corrosion

The special coated NBR gasket – which is approved for potable water – in combination with the unique body design ensure high performance in terms of pressure and pull-out resistance, vacuum as well as suction. The body made of polypropylene is completely corrosion-free and guarantees top performance as well as high resistance to stress in long lifetimes. The fittings are suitable for applications under and above ground thanks to very high resistance to UV rays.



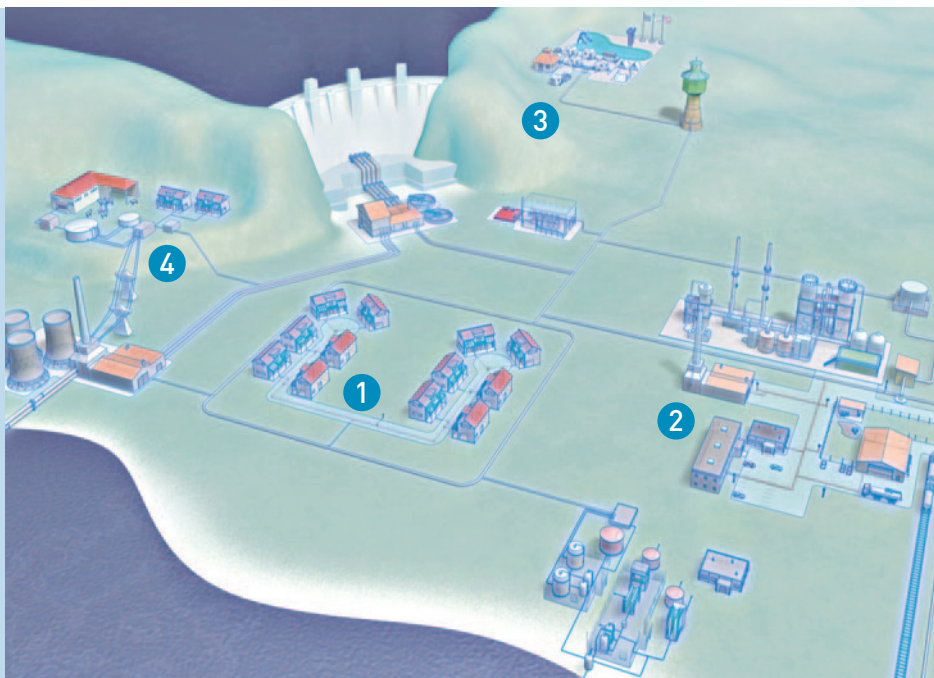
Safe design

The special design allows perfect resistance to water hammer and pull-out forces without having a negative impact on the connection lifetime. The end-stop for the nut works as a very helpful indicator of a proper nut closing position and the nut does not loosen by itself due to an anti-rotation stop. The clamp ring and all other components are contained in the body so that they cannot be lost even when disassembling the fitting or during transportation. High traceability is thus ensured.

Applications

The comprehensive iJOINT system is ideal for new installations as well as renovations or extensions of existing water lines.

iJOINT is designed for use in house connections and service lines. This wide-ranging system lends itself to new installations as well as to renovation or extension work on existing water lines. iJOINT can be used for diverse applications and its design benefits a vast number of industries. In addition, iJOINT is the perfect solution for bypass systems, where temporarily laid lines need to be disassembled in a quick and easy way, leaving the coupler intact by simply unscrewing and sliding the joint back from the pipe.



1

- Water Distribution Lines
- House Connections and Service Lines
- Pressure Sewage

2

- Industrial Applications
- Mining Industry

3

- Leisure Parks
- Golf Courses
- Camping Grounds

4

- Farming
- Greenhouses
- High-end Irrigation



Distribution line



House connection

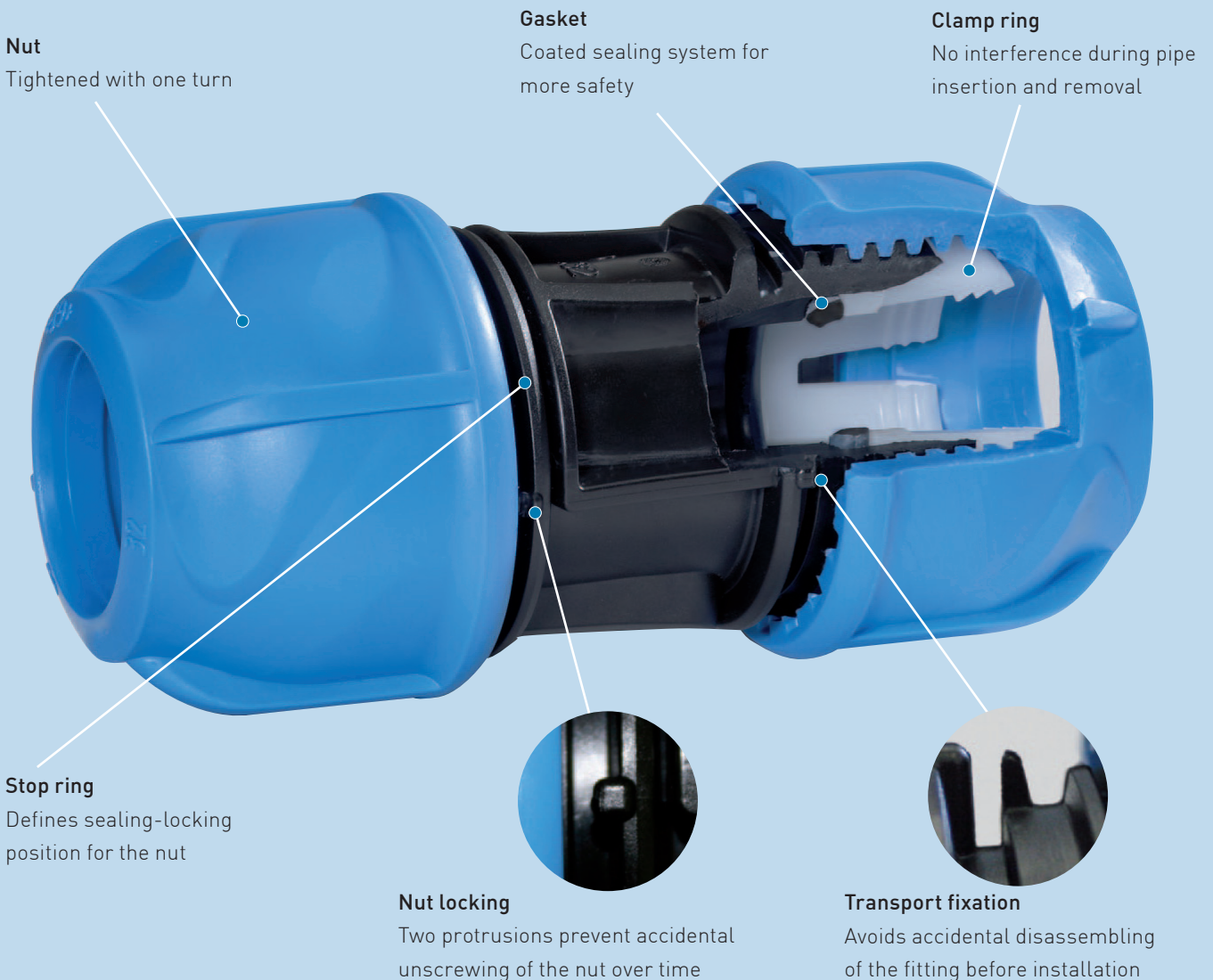


High-end irrigation

Features

The iJOINT focuses on safety and ergonomic handling – real benefits for our customers.

The new line of compression fittings from GF Piping Systems has been developed for use in water systems, assuring you of a quicker and easier installation compared to a traditional compression fitting. The coated sealing system makes this product both unique and long-lasting. Superb quality and innovative features predestine iJOINT for the drinking water market worldwide. iJOINT comprises all the benefits of plastics: no rust and no incrustation, lightweight construction, no leakage, excellent pressure resistance – just to name a few. To sum it up: iJOINT provides an excellent cost-benefit ratio with a life cycle of at least 50 years.



Technical specifications

Conformity to all important standards and availability in a wide range of diameters makes iJOINT your first choice.

iJOINT compression fittings are suitable with all types of polyethylene pipes PE 80, PE 100 and PEX-a. The fitting is ready to be installed out of the box without any preparation. The pipe can be inserted directly without loosening the nut or disassembling the fitting. There is a 16 bar resistance throughout the complete range of iJOINT fittings, with approvals according to the most stringent regulations worldwide. Thanks to the complete product selection of valves, fittings, pipes and measurement and control systems, GF Piping Systems is your one-stop solution provider, including worldwide training and supply chain management.

Pressure range	MPO of 16 bar for the complete range of iJOINT fittings from d20 to d110 mm (complete range DVGW approved PN16)
Temperature range	-10 °C to +45 °C
Materials	<p>Body (and thrust ring from d75 to d110 mm) UV stabilized polypropylene (PP)</p> <p>Nut UV stabilized blue polypropylene (PP)</p> <p>Clamp ring Polyacetal (POM)</p> <p>Gasket Food-safe coated NBR rubber suitable for potable water.</p> <p>Reinforcement ring (for female thread) Stainless steel AISI 430</p>
Regulation for drinking water	<p>iJOINT compression fittings comply with the strictest regulations in existence worldwide, e.g.:</p> <ul style="list-style-type: none"> - W270 and KTW (Germany) - ATA (Netherlands) - DM 174-06/04/2004 (Italy) - Global Mark (Australia) - ACS (France)
Approvals*	<ul style="list-style-type: none"> - DVGW (Germany) - IIP (Italy) - SVGW (Switzerland) - KIWA (Netherlands) - ACS (France) - Global Mark (Australia)
Standards	<p>For PE pipes: DIN EN 12201; ISO 11922-1; DIN 8074; EN 12201-1/2; AS/NZS 4130; BS 6572; BS 6730; ISO 4427; UNI 7990; ISO 12162</p> <p>Threads DIN EN 10226 (ISO 7-1); BS 21; AS 1722.1</p> <p>Flanges DIN EN1092-1; DIN 2501.1</p>
Test standards	ISO 14236; DIN 8076-3; AS/NZS 4129; BRL K534/03 -UNI; ISO 3501; ISO 3503; ISO 3458; ISO 3459; VP609



* see details at www.piping.georgfischer.com

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