

# Georg Fischer iJoint Compression Fittings

Technical Guide W2.4

Georg Fischer iJoint Compression Fittings are designed for quick and easy installation in water systems utilising PE pipe.



## Applications

Compression fittings for use in service lines, civil and rural water systems, and irrigation pipelines

For new installations and repairs

## Product Attributes

Simple to install

UV Stabilised polypropylene body and nut

Lubricated NBR lip seal for reliable long-term sealing

POM grip ring for a secure pipe connection

## Approvals/Standards

WSAA approval to AS/NZS 4129:2008

Complies with requirements of AS/NZS 4020:2005

## Quality

ISO 9001:2015 Quality Management Systems

ISO 14001:2015 Environmental Management Systems

*We are the supply partner of choice for New Zealand's civil construction industry, specialising in water and infrastructure based solutions.*

Georg Fischer iJoint Compression Fittings provide a quick and effortless installation in a variety of water systems. Top quality materials enable secure and long-lasting connections for different applications.



### Applications

- For use with PE and PEX Pipes
- Compression fittings for use in service lines, civil and rural water systems, and irrigation pipelines
- For new installations and repairs
- Perfect solution for quick and easy bypass systems

### Attributes

- Ready for use and easy installation
- Lubricated NBR lip seal enables smooth pipe insertion
- Specially designed clamp ring and thrust ring for maximum pull out resistance
- Ergonomically designed nut for easy handling

### Ratings & Standards

- All pressure rated to PN16
- For use on PE pipes made to AS/NZS 4130
- Threads ISO 7 to AS 1722.1

### Materials

- Clamp ring - Polyacetyl (POM)
- Nut - UV stabilized blue polypropylene impact copolymer
- Body and thrust ring - UV stabilized polypropylene impact copolymer to ISO 9080
- Lubricated Lip Gasket - Food-safe NBR rubber suitable for potable water
- Reinforcement Ring - Stainless steel to AISI 430

# Installation Instructions for iJoint Compression Fittings

## ø 20 - 63mm

Before proceeding with the assembly, check the presence of all components (clamp ring, thrust ring and lip gasket).



**TABLE 1 Fittings**

ø	mm
20	51
25	56
32	63
40	73
50	84
63	99



1 - 2  
Cut the pipe square and deburr it. Mark the insert depth on the pipe (see table: insert depth).



3.  
Push the pipe into the fitting until the first stop, meaning you have reached the gasket.



4.  
Push the pipe through the gasket until you reach the pipe stop of the fitting. Check the mark of the insert depth on the pipe for correct assembly.

5.  
Tighten the nut as tightly as possible by hand up to d32 mm and use the Georg Fischer tool or a wrench for fittings from d40 mm. For maximum pull out resistance tighten the nut until the stop ring.

## Installation Video

Installation video found at  
<https://www.youtube.com/watch?v=bNMQ-MGbTwM>



## Georg Fischer iJoint Compression Fittings – Available Products

	Item Code	Georg Fischer Code	Description
	<b>Male Adaptor iJoint</b>		
	CFIAM2015	158400124	Male Adaptor iJoint PP d20-1/2"
	CFIAM2020	158400124	Male Adaptor iJoint PP d20-3/4"
	CFIAM2515	158400126	Male Adaptor iJoint PP d25-1/2"
	CFIAM2520	158400127	Male Adaptor iJoint PP d25-3/4"
	CFIAM2525	158400128	Male Adaptor iJoint PP d25-1"
	CFIAM3220	158400129	Male Adaptor iJoint PP d32-3/4"
	CFIAM3225	158400130	Male Adaptor iJoint PP d32-1"
	CFIAM3232	158400131	Male Adaptor iJoint PP d32-11/4"
	CFIAM4032	158400134	Male Adaptor iJoint PP d40-11/4"
	CFIAM4040	158400135	Male Adaptor iJoint PP d40-11/2"
	CFIAM5032	158400138	Male Adaptor iJoint PP d50-11/4"
	CFIAM5040	158400139	Male Adaptor iJoint PP d50-11/2"
CFIAM5050	158400140	Male Adaptor iJoint PP d50-2"	
	<b>Female Adaptor iJoint</b>		
	CFIAM2015	158400088	Female Adaptor iJoint PP d20-1/2"
	CFIAM2020	158400089	Female Adaptor iJoint PP d20-3/4"
	CFIAM2515	158400090	Female Adaptor iJoint PP d25-1/2"
	CFIAM2520	158400091	Female Adaptor iJoint PP d25-3/4"
	CFIAM2525	158400092	Female Adaptor iJoint PP d25-1"
	CFIAM3220	158400094	Female Adaptor iJoint PP d32-1"
	CFIAM3225	158400096	Female Adaptor iJoint PP d40-1"
	CFIAM3232	158400097	Female Adaptor iJoint PP d40-11/4"
	CFIAM4032	158400101	Female Adaptor iJoint PP d50-11/2"
	CFIAM4040	158400104	Female Adaptor iJoint PP d63-2"
	<b>Coupler iJoint</b>		
	CFIC20	158400001	Coupler iJoint PP d20
	CFIC25	158400002	Coupler iJoint PP d25
	CFIC32	158400003	Coupler iJoint PP d32
	CFIC40	158400004	Coupler iJoint PP d40
	CFIC50	158400005	Coupler iJoint PP d50
	CFIC63	158400006	Coupler iJoint PP d63
	<b>Repair Coupling iJoint</b>		
	CFICSL20	158400168	Repair coupling iJoint PP d20
	CFICSL25	158400169	Repair coupling iJoint PP d25
	CFICSL32	158400170	Repair coupling iJoint PP d32
	CFICSL40	158400171	Repair coupling iJoint PP d40
	CFICSL50	158400172	Repair coupling iJoint PP d50
	CFICSL63	158400173	Repair coupling iJoint PP d63

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	Item Code	Georg Fischer Code	Description
<b>Elbow 90° iJoint</b> 	CFIE90.20	158400070	Elbow 90° iJoint PP d20
	CFIE90.25	158400071	Elbow 90° iJoint PP d25
	CFIE90.32	158400072	Elbow 90° iJoint PP d32
	CFIE90.40	158400073	Elbow 90° iJoint PP d40
	CFIE90.50	158400074	Elbow 90° iJoint PP d50
	CFIE90.63	158400075	Elbow 90° iJoint PP d63
<b>Elbow 90° Male iJoint</b> 	CFIEM90.20	158400047	Elbow 90° Male iJoint PP d20-3/4"
	CFIEM90.2015	158400048	Elbow 90° Male iJoint PP d20-1/2"
	CFIEM90.2520	158400050	Elbow 90° Male iJoint PP d25-3/4"
	CFIEM90.25	158400051	Elbow 90° Male iJoint PP d25-1"
	CFIEM90.3225	158400054	Elbow 90° Male iJoint PP d32-1"
	CFIEM90.4032	158400056	Elbow 90° Male iJoint PP d40-11/4"
	CFIEM90.40	158400057	Elbow 90° Male iJoint PP d40-11/2"
	CFIEM90.5040	158400059	Elbow 90° Male iJoint PP d50-11/2"
	CFIEM90.63	158400062	Elbow 90° Male iJoint PP d63-21/2"
CFIEM90.50	158400063	Elbow 90° Male iJoint PP d63-2"	
<b>Elbow 90° Female iJoint</b> 	CFIEF90.2015	158400022	Elbow 90° Female iJoint PP d20-1/2"
	CFIEF90.2515	158400024	Elbow 90° Female iJoint PP d25-1/2"
	CFIEF90.2520	158400025	Elbow 90° Female iJoint PP d25-3/4"
	CFIEF90.2525	158400026	Elbow 90° Female iJoint PP d25-1"
	CFIEF90.3225	158400029	Elbow 90° Female iJoint PP d32-1"
	CFIEF90.4025	158400032	Elbow 90° Female iJoint PP d40-1"
	CFIEF90.4032	158400033	Elbow 90° Female iJoint PP d40-11/4"
	CFIEF90.5040	158400037	Elbow 90° Female iJoint PP d50-11/2"
CFIEF90.6350	158400041	Elbow 90° Female iJoint PP d63-2"	
<b>Elbow 45° iJoint</b> 	CFIE45.20	158400016	Elbow 45° iJoint PP d20
	CFIE45.25	158400017	Elbow 45° iJoint PP d25
	CFIE45.32	158400018	Elbow 45° iJoint PP d32
	CFIE45.40	158400019	Elbow 45° iJoint PP d40
	CFIE45.50	158400020	Elbow 45° iJoint PP d50
	CFIE45.63	158400021	Elbow 45° iJoint PP d63

## Georg Fischer iJoint Compression Fittings – Available Products

	Item Code	Georg Fischer Code	Description
<b>Tee 90° Equal iJoint</b>			
	CFIT20	158400223	T 90° Equal iJoint PP d20
	CFIT25	158400224	T 90° Equal iJoint PP d25
	CFIT32	158400225	T 90° Equal iJoint PP d32
	CFIT40	158400226	T 90° Equal iJoint PP d40
	CFIT50	158400227	T 90° Equal iJoint PP d50
	CFIT63	158400228	T 90° Equal iJoint PP d63
<b>End Cap iJoint</b>			
	CFICE20	158400079	End cap iJoint PP d20
	CFICE25	158400080	End cap iJoint PP d25
	CFICE32	158400081	End cap iJoint PP d32
	CFICE40	158400082	End cap iJoint PP d40
	CFICE50	158400083	End cap iJoint PP d50
	CFICE63	158400084	End cap iJoint PP d63
<b>Tapping Saddle for PE and PVC Pipes iJoint</b>			
	CFITS6332	158400702	Tap Saddle iJoint PP NBR PN16 d63-d32
<b>Reduction Kit for iJoint</b>			
	CFIRK3225	158400306	Reducer Kit iJoint PP d32-25
<b>iJoint Tightening Wrench</b>			
	CFIWRENCH	158500998	Metal tightening wrench for iJoint Fittings



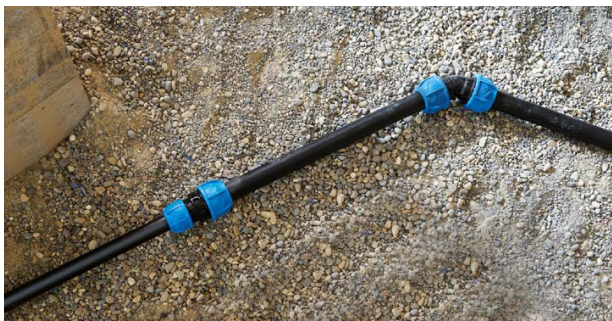


FIG. 1 Photos of the Compression Joint installed

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