

System Perfection

The rapid connection in gas utility



Permasert[®] mechanical pipe coupling systems and PermaLock[®] mechanical tapping tees

The companies Elster and GF have concluded a sales cooperation agreement in order to offer client solutions under one roof. In the last 40 years, System Perfection has provided more than 50 million gas and water pipe couplings worldwide.



Our connection system Perfection – from the main line to household connection

The PE pipe coupling system for gas utility is a mechanical connection system, which allows the house's gas connection to be managed from the main line to the household connection. Both, the PermaLock tapping tees and the Permasert pipe coupling systems belong to this product family, with an optional excess flow valve. These offer you a quick and secure gas pipe connection, without using specialised tools or expensive equipment.

Your advantages

Moulded pipe couplings parts, excess flow valves and tapping tees made from PE100 for PE80-, PE100- and PE-X-pipes in SDR11:

Quick an easy

- Easy to install
- Quick repair solutions an elimination of defects

Secure

- Restrain an insoluble
- Safe an quick installation by one person
- Installation under all weather conditions

Long life expectancy

- Corrosion-resistant components extend the life expectancy significantly

Economic

- Very short installation times
- No specialist knowledge required
- No need for special tools an installation equipment
- No external energy souce required
- Low space requirements

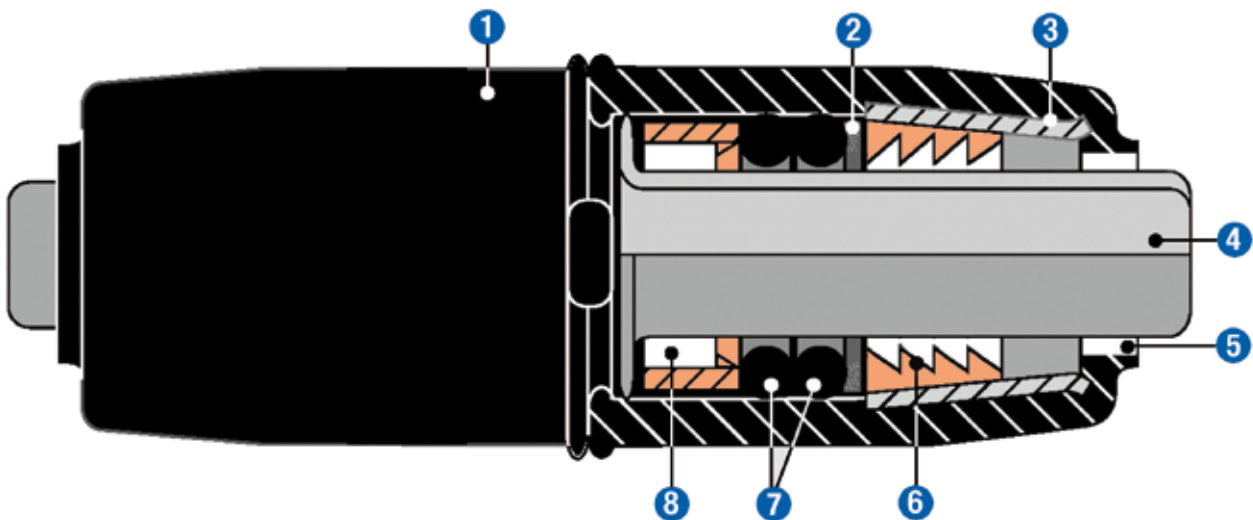
Mechanical pipe coupling

Permasert® System

The clamping components (collet, Spacer retainer ring, thrust washer) engage progressively in the PE pipe depending on the pull-out force of the pipe. The Permasert® system is optionally available with an excess flow valve.

Coupling construction

- 1. Body** made PE100
- 2. Thrust washer** from POM guarantees equal distribution of force on the stiffener
- 3. Support rings made from stainless steel** improves the stability of the clamp stiffener
- 4. Internal support stiffener** – made from galvanised steel for alignment and support
- 5. Moisture and dirt seal** for protection against foreign bodies
- 6. Conical clamping collet** made from POM prevents the extraction of the pipe
- 7. Sealing element** from NBR elastomer
- 8. Spacing ring** from POM for centering of the pipe and better clamp strength



Technical Data

Casing	Suitable for gas – PE100 in accordance with DIN EN 1555-3 und DIN EN 682
Tested in accordance with	DVGW VP600, new DVGW G 5600-1
Nominal pressure	Approved up to MOP 10 bar
Sizes	d20 – d63 for PE pipes SDR 11
DVGW registration-no.	DG-7521 BS 0052

Mechanical reducing coupling

from PE100 (EN1555) for reduction in the dimensions d20 – d63.



Permasert mechanical reducing coupling

Mechanical repair coupling Permasert®

from PE100 (EN1555) are corrosion-resistant and reduce your repair times. Optionally can be delivered with a telescope and sliding function as well as in various pre-fabricated lengths.



Permasert mechanical rapair coupling

Mechanical moulded pipe coupling parts - Permasert® System

The Permasert mechanical end caps permanently lock off the PE gas lines. When using a functional type end cap, a sustainable expansion of the network is possible.



Permasert mechanical end cap

Mechanically attached tapping tee

PermaLock® System

The PermaLock® mechanically attached tapping tee offers the installer a combination of security, reliability and fast working when connecting a housing supply line. The PermaLock® mechanically attached tapping tee can optionally be supplied with an integrated excess flow valve.

The details

- Twisting resistance through locking sleeve in the pipe wall of the PE main line
- Metallic cutter for connecting to the main line
- Optionally with integrated Permasert pipe coupling for direct connection to the connecting line
- Optionally with integrated excess flow valve
- With PermaTile sealing cap
- Seamless O-ring seals for PE80 – PE100 main lines
- Fibre and chipless drilling



PermaLock mechanical tapping tee

Technical data

Casing	Suitable for gas - PE100 in accordance with DIN EN 1555-3 and DIN EN 682
Sealing elements	NBR in accordance with EN 682
Cutter	Cutter with locking sleeve from galvanized steel
Screws	from A2 stainless steel
Tested in accordance with	DVGW G260, DVGW GW335
Nominal pressure	approved up to MOP 10 bar
Sizes	d63, d90, d110, d160, d225 PE pipes SDR 11
DVGW registration-no.	DG-4511 BT0205

Coupling system with integrated excess flow valve

The Permasert pipe coupling system and PermaLock tapping tee can be supplied with an excess flow valve.

The details

- Multigrade excess flow valve type Z from 35 mbar to 5 bar
- Easy retrofitting using Permasert coupling
- Is factory-adjusted and tested
- Extensive resistance to contaminants in the gas
- Durable and stable pressure spring made of high-quality stainless steel
- Optimised mounting of the excess flow valve using PE ring for stress-free diameter adjustment



Plattern – PermaLock mechanical tapping tee



Areas of application

- Connections / applications in underground gas pipeline construction up to MOP 10
- Creating household gas service connections
- Safe and fast repairs on PE gas lines



GF Piping Systems

Your contact

Our sales companies and local sales partners offer consulting, services and seminars.

Verkaufsgesellschaft Deutschland

Georg Fischer GmbH
Daimlerstraße 6
73095 Albershausen
Telefon +49 7161 302-0
Fax +49 7161 302-259
info.de.ps@georgfischer.com
www.gfps.com/de

Verkaufsbüro Hannover

Georg Fischer GmbH
Heidering 37-39
30625 Hannover
Telefon +49 511 957 88-0
Fax +49 511 957 88-44

Verkaufsbüro Leipzig

Georg Fischer GmbH
Georg-Fischer-Straße 2
04249 Leipzig
Telefon +49 341 484 70-0
Fax +49 341 484 70-21

Verkaufsbüro Neuburg

Georg Fischer GmbH
Nördliche Grünauer Straße 65
86633 Neuburg
Telefon +49 8431 58 17-0
Fax +49 8431 58 17-20

Verkaufsgesellschaft Österreich

Georg Fischer Rohrleitungssysteme GmbH
Sandgasse 16
3130 Herzogenburg
Telefon +43 2782 856 43-0
Fax +43 2782 856 64
austria.ps@georgfischer.com
www.gfps.com/at

Verkaufsgesellschaft Schweiz

Georg Fischer Rohrleitungssysteme (Schweiz) GmbH
Ebnetstraße 111
8201 Schaffhausen
Telefon +41 52 631-3026
Fax +41 52 631-2896
ch.ps@georgfischer.com
www.gfps.com/ch

The technical data is not binding. They neither constitute expressly warranted characteristics nor guaranteed properties nor a guaranteed durability. They are subject to modification. Our General Terms of Sale apply.