

FGPA

FRIAGRIP PE adaptor

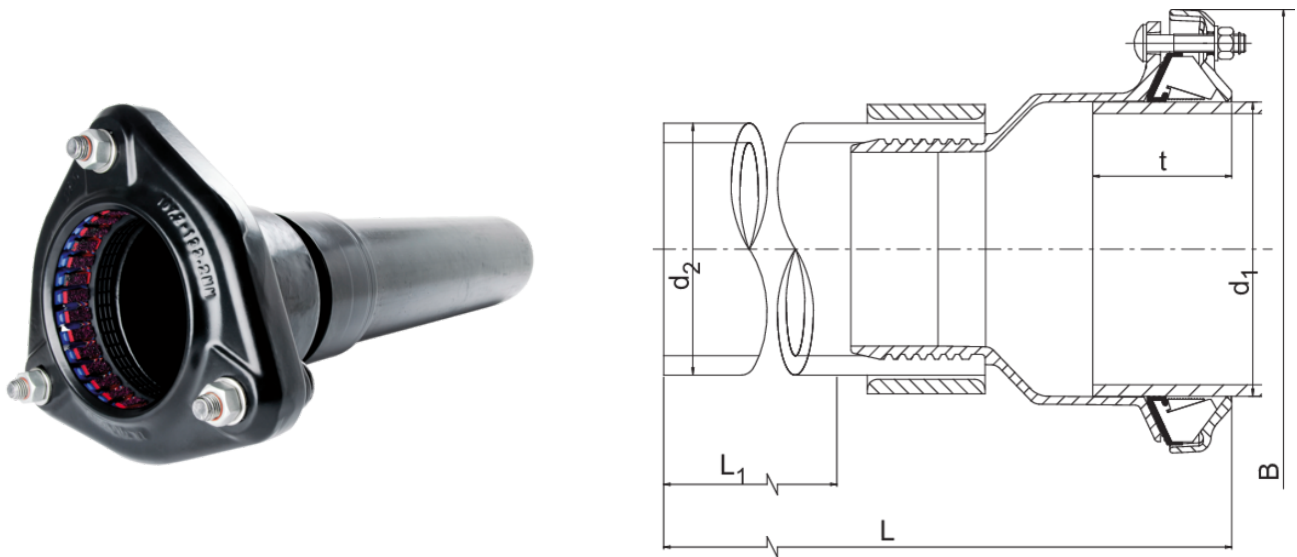
Restrained transition-coupling made of PE100 SDR11 for connecting pipes of different materials (steel, cast iron, ductile iron, asbestos cement, PVC, PE-HD/PEX) to PE

- Body and bonnet are made of ductile iron (EN-GS-450-10)
- Corrosion protection Rilsan (min. 250 μm acc. GSK).
- Progressive Gripping Mechanism increases its end load restraint capability as the internal pressure in the pipe. One gripper system suits all recommended pipe materials and offers full end load resistance at full angular deflection.
- Carriers made of acetal, gripping segment made of acetal, corundum-coated
- Gasket material EPDM or NBR
- Diameter tolerance dimensionally dependent up to max. 54 mm
- Nuts and Bolts made of stainless steel.
- Maximum pipe deflection 8°
- Temperature range: -20 °C - +30 °C

Note:

When used on PE-HD/PEX pipes, our inner support liner SHVA is required.

When used on asbestos cement pipes, restrained function cannot be ensured.



Gasket EPDM, DIN-EN 681-1 / KTW / UBA / DVGW-W270

PFA /PN Water: up to DN 300 = 16 bar, larger DN 300 = 10 bar

| Reference | DN | d ₁ | d ₂ | PN | L | t min | t max | Screws (pc. / size) | Weight [kg] | BX | Pallet quantity |
|-----------|-----|----------------|----------------|----|-----|-------|-------|---------------------|-------------|----|-----------------|
| 673005 | 80 | 85,7-107,0 | 90 | 16 | 662 | 65 | 95 | 3 x 670601 | 6,800 | 1 | 24 |
| 673007 | 100 | 107,2-133,2 | 110 | 16 | 685 | 90 | 115 | 3 x 670707 | 12,000 | 1 | 12 |
| 673008 | 100 | 107,2-133,2 | 125 | 16 | 678 | 90 | 115 | 3 x 670707 | 12,700 | 1 | 12 |

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| Reference | DN | d ₁ | d ₂ | PN | L | t min | t max | Screws (pc. / size) | Weight [kg] | BX | Pallet quantity |
|-----------|-----|----------------|----------------|----|-----|-------|-------|---------------------|-------------|----|-----------------|
| 673009 | 125 | 132,2-160,2 | 110 | 16 | 704 | 90 | 115 | 3 x 670707 | 13,500 | 1 | 12 |
| 673010 | 125 | 132,2-160,2 | 125 | 16 | 698 | 90 | 115 | 3 x 670707 | 14,200 | 1 | 12 |
| 673011 | 150 | 158,2-192,2 | 160 | 16 | 707 | 90 | 125 | 4 x 670707 | 16,000 | 1 | 8 |
| 673012 | 150 | 158,2-192,2 | 180 | 16 | 704 | 90 | 125 | 4 x 670707 | 23,800 | 1 | 6 |
| 673015 | 200 | 218,1-256,0 | 225 | 16 | 728 | 125 | 165 | 5 x 670707 | 37,000 | 1 | 4 |

Gasket NBR, DIN-EN 682

MOP Gas: up to DN 400 = 5 bar

Other water qualities PFA /PN: up to DN 300 = 16 bar,

larger DN 300 = 10 bar

| Reference | DN | d ₁ | d ₂ | PN | L | t min | t max | Screws (pc. / size) | Weight [kg] | BX | Pallet quantity |
|-----------|-----|----------------|----------------|----|-----|-------|-------|---------------------|-------------|----|-----------------|
| 671005 | 80 | 85,7-107,0 | 90 | 5 | 662 | 65 | 95 | 3 x 670601 | 6,800 | 1 | 24 |
| 671007 | 100 | 107,2-133,2 | 110 | 5 | 685 | 90 | 115 | 3 x 670707 | 12,000 | 1 | 12 |
| 671008 | 100 | 107,2-133,2 | 125 | 5 | 678 | 90 | 115 | 3 x 670707 | 12,700 | 1 | 12 |
| 671009 | 125 | 132,2-160,2 | 110 | 5 | 704 | 90 | 115 | 3 x 670707 | 13,500 | 1 | 12 |
| 671010 | 125 | 132,2-160,2 | 125 | 5 | 698 | 90 | 115 | 3 x 670707 | 14,200 | 1 | 12 |
| 671011 | 150 | 158,2-192,2 | 160 | 5 | 707 | 90 | 125 | 4 x 670707 | 20,600 | 1 | 8 |
| 671012 | 150 | 158,2-192,2 | 180 | 5 | 704 | 90 | 125 | 4 x 670707 | 23,800 | 1 | 6 |
| 671015 | 200 | 218,1-256,0 | 225 | 5 | 728 | 125 | 165 | 5 x 670707 | 37,000 | 1 | 4 |

FRIAGRIP PE adaptor

Good reasons for FRIAGRIP

- Workload is reduced to a minimum (no abutments required for changes of direction)
- The components are supplied pre-assembled at the factory, so no conversion and replacement work is required on site
- One sealing package and one gripping segment for the pipe materials steel, cast iron, ductile cast iron, fiber cement, PVC, PE-HD/PEX
- The sealing and gripping systems work independently of each other. This ensures a secure seal under dynamic axial loads
- The waffle profile of the seal forms sealing chambers on the pipe surface, which support secure sealing on rough pipe surfaces
- Pipes can be angled up to 8° (coupling) or 4° (flange adapter). In the event of pipe fractures, a misalignment can be compensated for by installing two couplings. The couplings act like a joint and keep the pipe stress-free
- Simple installation with standard tools
- One torque for all pipe materials
- It is not necessary to check the tightening torque of the screws several times
- The tolerance range of up to 54 mm enables different pipe materials to be connected to one component. Reduced stock levels for suppliers and retailers

Areas of Application areas

FRIAGRIP PE adapter FGPA as a restrained connection element for pipes made of different materials (steel, cast iron, ductile cast iron, fiber cement**, PVC****, PE-HD***). Available from DN 80 to DN 200.

The clamping ranges are designed so that a component can be used on all pipe materials of a nominal diameter.

Weld-on end PE100, SDR 11.

FRIAGRIP can be used with the NBR gasket for the gas, water and waste water, in the drinking water distribution network with EPDM seal (DVGW-W270 [11.2007], KTW). Screws and nuts made of stainless steel (V2A / V4A).

FRIAGRIP components can only be used in civil engineering!

Processing instructions

FRIAGRIP can be used to produce restrained joints without abutments (exception: fiber cement pipes).

The pipe ends must be prepared in accordance with the general installation requirements (see FRIAGRIP installation instructions). The insertion depths $t_{min.}/t_{max.}$ must be observed.

*Water: \leq DN 300 PN 16, $>$ DN 300 PN 10 /Gas: \leq DN 400 PN 5 The information on the type plate must be observed!

** For fiber cement pipes, the restrained function cannot be guaranteed

*** When using with PE-HD/PEX pipes, the FRIAGRIP support sleeve (type FRIATEC Mod. SHVA, see current FRIAGRIP price list) must be used (see FRIAGRIP info no. HI409).

**** For use on PVC gas pipes, see FRIAGRIP Info No. HI410. For PVC pipes with wall thicknesses DIN 8061/62 - PN 10, the FRIAGRIP support