

# FGFA

## UltraGrip Flange Adaptor

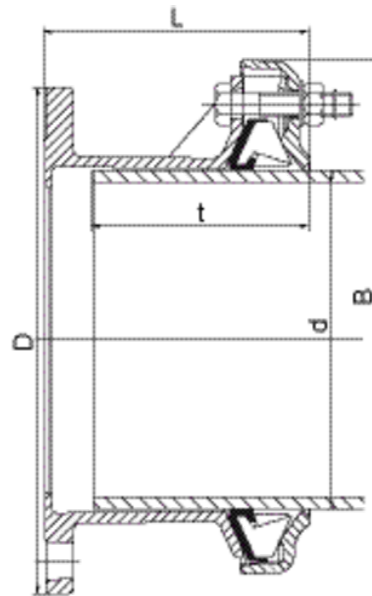
Restrained flange adaptor for connecting pipes made of different materials (steel, cast iron, ductile cast iron, asbestos cement, PVC, PE-HD/PEX) in civil engineering.

- Housing and follower-ring made of ductile iron (EN-GS-450-10)
- Corrosion protection Rilsan (min. 250 µm according to GSK)
- One gripping system for all pipe materials gripping segment made of acetal, corundum coated
- Sealing material EPDM or NBR
- Diameter range depending on size up to max. 54 mm
- Stainless steel or galvanized screws and nuts
- Angular deflection of 4 degrees
- Flange connection dimensions according to DIN EN1092, PN 10 and PN 16

A notice:

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

When used on AZ pipes, restrained cannot be entirely ensured



Reference	d	DN	Flansch DN	Flansch PN	BX	PU	D	L	t min	t max	Weight kg
672000	43,5-63,5	40	40	10/16	4	96	150	148	65	110	4,400
672001	43,5-63,5	40	50	10/16	4	96	165	144	65	110	4,500
672002	48,0-71,0	50	50	10/16	4	30	165	153	65	110	4,500
672003	63,0-83,7	65	65	10/16	4	96	185	144	65	110	5,300
672005	85,7-107,0	80	80	10/16	2	60	200	144	65	110	6,300
672007	107,2-133,2	100	100	10/16	2	36	220	192	90	125	10,000
672009	132,2-160,2	125	125	10/16	2	24	252	173	90	135	10,600

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Reference	d	DN	Flansch DN	Flansch PN	BX	PU	D	L	t min	t max	Weight kg
672011	158,2-192,2	150	150	10/16	1	18	285	212	90	125	14,400
672013	192,2-226,9	175	200	10/16	1	18	340	240	125	165	23,900
672015	218,1-256,0	200	200	10/16	1	12	340	240	125	165	25,300
672017	266,2-310,2	250	250	10/16	1	4	400	303	125	165	35,600
672019	315,0-356,0	300	300	10/16	1	4	470	304	125	200	43,700
672021	352,2-396,0	350	350	10/16	-	1	520	313	125	200	51,200
672023	398,2-442,0	400	400	10/16	-	1	580	313	125	200	57,700
672025	448,0-492,0	400+	400	10/16	-	1	580	413	125	200	96,000
672027	498,0-552,0	500	500	10/16	-	1	715	398	140	215	109,000
672029	558,0-608,0	500+	500	10/16	-	1	715	448	140	215	125,000
672031	604,0-648,0	600	600	10/16	-	1	840	410	195	255	171,000
672033	676,0-726,0	600+	600	10/16	-	1	840	470	195	255	195,000

Reference	d	DN	Flansch DN	Flansch PN	BX	PU	D	L	t min	t max	Weight kg
670000	43,5-63,5	40	40	10/16	4	96	150	148	65	110	4,400
670001	43,5-63,5	40	50	10/16	4	96	165	144	65	110	4,500
670002	48,0-71,0	50	50	10/16	4	30	165	153	65	110	4,500
670003	63,0-83,7	65	65	10/16	4	96	185	144	65	110	5,300
670005	85,7-107,0	80	80	10/16	2	60	200	144	65	110	6,300
670007	107,2-133,2	100	100	10/16	2	36	220	192	90	125	10,000
670009	132,2-160,2	125	125	10/16	2	24	252	173	90	135	10,600
670011	158,2-192,2	150	150	10/16	1	18	285	212	90	125	14,400
670013	192,2-226,9	175	200	10/16	1	18	340	240	125	165	23,900
670015	218,1-256,0	200	200	10/16	1	12	340	240	125	165	25,300
670017	266,2-310,2	250	250	10/16	1	4	400	303	125	165	35,600
670019	315,0-356,0	300	300	10/16	1	4	470	304	125	200	43,700
670021	352,2-396,0	350	350	10/16	1	1	520	313	125	200	51,200
670023	398,2-442,0	400	400	10/16	1	1	580	313	125	200	57,700

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### Areas of application

FRIAGRIP coupling FGK as a restrained coupling<sup>1</sup> for pipes made of different materials (steel, cast iron, ductile iron, fiber cement<sup>2</sup>, PVC<sup>3</sup>, PE-HD/PEX<sup>4</sup>). Available from DN 40 to DN 600+.

FRIAGRIP components can only be used in buried areas

### Processing instructions

FRIAGRIP, restrained couplings for connections without without abutments (exception: asbestos 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 strictly observed.

<sup>1</sup> Restrained; water:  $\leq$  DN 300 PN 16,  $>$  DN 300 PN10 / restrained:  $\leq$  DN 400 PN 5.

<sup>2</sup> Restrained cannot be guaranteed for asbestos cement pipes

<sup>3</sup> For application on PVC gas pipes, see FRIAGRIP Technical Information. For PVC pipes with wall thicknesses  $<$  DIN 8061/62 - PN 10, use the FRIAGRIP support liners (type FRIATEC Mod. SHVA).

For application on stainless steel pipes, see FRIAGRIP Technical Information.

<sup>4</sup> When used with PE-HD/PEX pipes, the FRIAGRIP support liners

### Good reasons for FRIAGRIP

- Working in Pipe Trenches reduced to a minimum (no abutments required for directional changes)
- The components are delivered pre-assembled at the factory, thus no conversion and replacement work is required on site
- One gasket-package and one gripping segment for the pipe materials steel, cast iron, ductile iron, fiber cement, PVC, PE-HD/PEX.
- Gasket and gripping system operate independently of each other. This ensures a reliable seal under dynamic axial loads.
- Specially profiled gasket ensures full seal even on scored and corroded pipes.
- Deflection of the pipes up to 8° (coupling) or 4° (flange adapter).
- In case of pipe breakage, axial misalignment can be compensated 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
- Repeated checking of the tightening torque of the bolts not necessary
- The tolerance range of up to 54 mm allows different pipe materials to be connected to one FRIAGRIP-Size, therefore reduced stock-keeping necessary