FGFA

FRIAGRIP Flange Adaptor

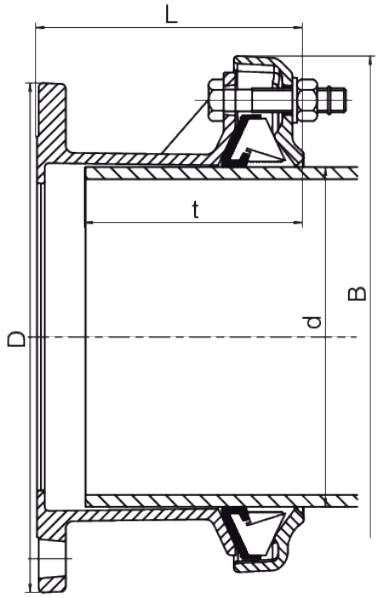
Restrained flange adapter for connecting pipes made of different materials (steel, cast iron, ductile iron, asbestos cement, PVC, PE-HD/PEX) in civil engineering.

- Housing and bonnet-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
- Temperature range: -20°C - +30°C

A notice:

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

When used on AZ pipes, restrained cannot be entirely 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	Diameter	DN	PN	Flansch DN	Flansch PN	D	L	t min	t max	Screws (pc. / size)	Weight [kg]	BX	Pallet quantity
672000	43,5-63,5	40	16	40	10/16	150	148	65	110	3 x 670601	4,200	4	96
672001	43,5-63,5	40	16	50	10/16	165	144	65	110	3 x 670601	4,200	4	96
672002	48,0-71,0	50	16	50	10/16	165	153	65	110	3 x 670603	5,200	1	96
672003	63,0-83,7	65	16	65	10/16	185	144	65	110	3 x 670601	5,200	4	96

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Reference	Diameter	DN	PN	Flansch DN	Flansch PN	D	L	t min	t max	Screws (pc. / size)	Weight [kg]	BX	Pallet quantity
672005	85,7-107,0	80	16	80	10/16	200	144	65	110	3 x 670601	6,200	2	60
672007	107,2-133,2	100	16	100	10/16	220	192	90	125	3 x 670707	10,000	2	36
672009	132,2-160,2	125	16	125	10/16	252	173	90	135	3 x 670707	11,600	2	24
672011	158,2-192,2	150	16	150	10/16	285	212	90	125	4 x 670707	14,750	1	18
672013	192,2-226,9	175	16	200	10/16	340	240	125	165	5 x 670707	25,000	1	18
672015	218,1-256,0	200	16	200	10/16	340	240	125	165	5 x 670707	22,600	1	12
672017	266,2-310,2	250	16	250	10/16	400	303	125	165	6 x 670609	38,000	1	4
672019	315,0-356,0	300	16	300	10/16	470	304	125	200	8 x 670609	42,500	1	4
672021	352,2-396,0	350	10	350	10/16	520	313	125	200	9 x 670717	50,000	1	-
672023	398,2-442,0	400	10	400	10/16	580	313	125	200	10 x 670717	60,000	1	-
672025	448,0-492,0	400+	10	400	10/16	580	413	125	200	12 x 670619	135,000	1	-
672027	498,0-552,0	500	10	500	10/16	715	398	140	215	9 x 670719	109,000	1	-
672029	558,0-608,0	500+	10	500	10/16	715	448	140	215	10 x 670719	125,000	1	-
672031	604,0-648,0	600	10	600	10/16	840	410	195	255	12 x 670719	101,000	1	-
672033	676,0-726,0	600+	10	600	10/16	840	470	195	255	14 x 670719	165,000	1	-

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	Diameter	DN	PN	Flansch DN	Flansch PN	D	L	t min	t max	Screws (pc. / size)	Weight [kg]	BX	Pallet quantity
670000	43,5-63,5	40	16	40	10/16	150	148	65	110	3 x 670601	4,200	4	96
670001	43,5-63,5	40	16	50	10/16	165	144	65	110	3 x 670601	4,200	4	96
670002	48,0-71,0	50	16	50	10/16	165	153	65	110	3 x 670603	4,820	4	96
670003	63,0-83,7	65	16	65	10/16	185	144	65	110	3 x 670601	5,840	4	96
670005	85,7-107,0	80	16	80	10/16	200	144	65	110	3 x 670601	6,200	2	60
670007	107,2-133,2	100	16	100	10/16	220	192	90	125	3 x 670707	10,000	2	36
670009	132,2-160,2	125	16	125	10/16	252	173	90	135	3 x 670707	11,600	2	24
670011	158,2-192,2	150	16	150	10/16	285	212	90	125	4 x 670707	16,050	1	18
670013	192,2-226,9	175	16	200	10/16	340	240	125	165	5 x 670707	16,600	1	18
670015	218,1-256,0	200	16	200	10/16	340	240	125	165	5 x 670707	22,600	1	12
670017	266,2-310,2	250	16	250	10/16	400	303	125	165	6 x 670609	33,800	1	4
670019	315,0-356,0	300	16	300	10/16	470	304	125	200	8 x 670609	42,500	1	4
670021	352,2-396,0	350	10	350	10/16	520	313	125	200	9 x 670717	50,000	1	1

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Reference	Diameter	DN	PN	Flansch DN	Flansch PN	D	L	t min	t max	Screws (pc. / size)	Weight [kg]	BX	Pallet quantity
670023	398,2-442,0	400	10	400	10/16	580	313	125	200	10 x 670717	60,000	1	1

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Areas of application

FRIAGRIP coupling FGK as a restrained coupling[1] for pipes made of different materials (steel, cast iron, ductile iron, fiber cement[2], PVC[3], PE-HD/PEX[4]). 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 tmin./tmax. must be strictly observed.

[1] Restrained; water: ≤ DN 300 PN 16, > DN 300 PN10 / restrained: ≤ DN 400 PN 5.

[2] Restrained cannot be guaranteed for asbestos cement pipes

[3] 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.

[4] 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