

# BRUGG

## Pipes

### NIROFLEX®

The corrugated pipe for every situation

**Flexible, endless, self-compensating corrugated pipe system for various transport tasks or optimal heat transfer**

#### SYSTEM DESCRIPTION

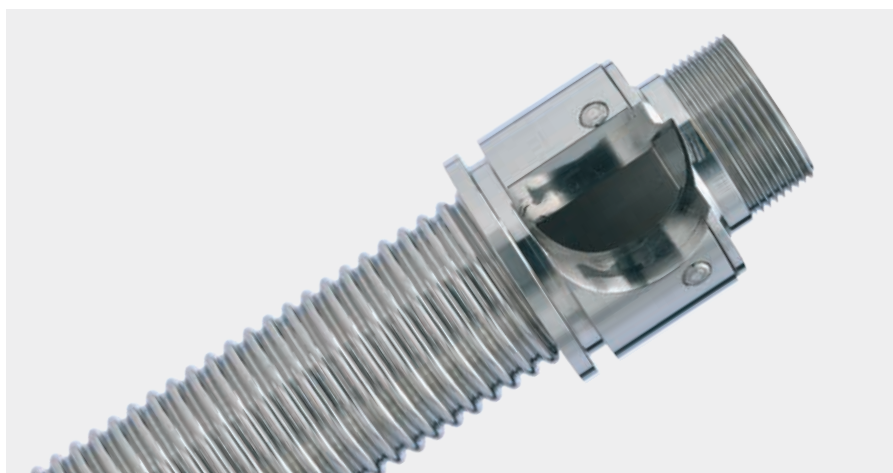
NIROFLEX® is a flexible corrugated pipe system made of stainless steel (with and without PE casing). The essential constructional feature of this piping, manufactured at our works in long lengths, is the helically corrugated pipe. Expansion uptake is ensured by the corrugated pipe geometry. That means that laying NIROFLEX® is uncomplicated, fast and cost-effective even in difficult routings. For underground laying, NIROFLEX® CNT is available with a protective PE-LD casing for installation. Protected in this way, the pipe can be pulled into the trench in one piece, thus minimizing the work involved. For special applications there is NIROFLEX® CNP, a version with additional polymer coating.

#### SYSTEM ADVANTAGES

- can be laid in long lengths
- is easily bendable, narrow bending radii
- available with and without protective installation casing
- is highly economical in use, in corrosion-resistant material
- optimized pipe profile for excellent heat and flow characteristics

#### APPLICATIONS

- for the surface and underground transport of fluids and gases



- as duct work
- as protective pipe
- as heat exchanger pipe
- as piping for solar energy
- as hot water heat tracing pipe
- as inliner for other pipe systems

#### CHARACTERISTICS

Standard materials:  
1.4301, 1.4404 or 1.4571 and depending on the project concerned 1.4539  
Nominal bores:  
DN 20 – DN 150  
Pressure stages:  
depending on dimensions and application

#### CONNECTION METHODS

Optimized connecting fittings and moulded fitting technology enable the pipes to be connected to standard piping. The flameless GRAPA connecting method with a graphite seal means time savings

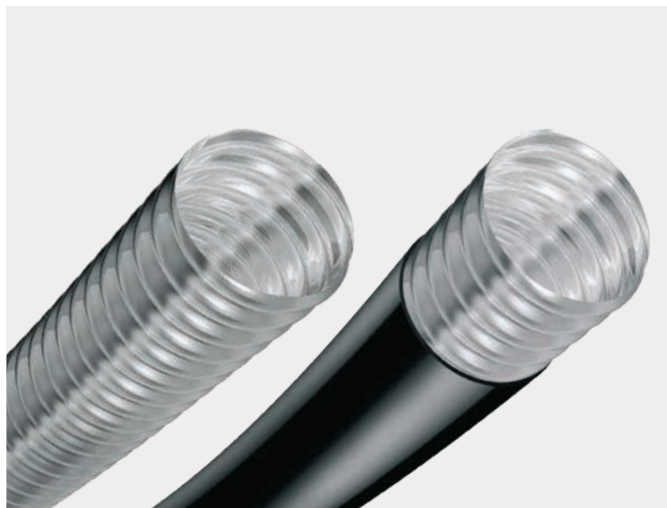
when working on connections, especially in areas where there is a danger of explosions.

The connection technology is available in several different versions, primarily with welded end, with external screw thread or flanged connection according to DIN.

#### LAYING

NIROFLEX® pipes are manufactured in serial production in lengths up to 1000 m and more and wound on cable drums or as a coil. That means they can be laid directly off the drum or coil.

The corrugated stainless steel pipe is easily bendable and so very simple to lay. NIROFLEX® pipes can be cut to the required length on site and – if needed – laid with extremely narrow bending radii around existing pipelines or other obstacles.



NIROFLEX® CNW without and CNT with protective PE-LD casing



NIROFLEX® can be delivered on a cable drum or as a coil

NIROFLEX®  
Connecting fitting  
GRAPA-S



**Technical data NIROFLEX®**

Nominal bore:	DN		20	25	32	40	50	65	80	100	125	150
Type specification:	CNW	ID/OD	22/25	30/34	39/44	48/55	60/66	75/86	98/109	127/143	147/163	200/220
	CNT	ID/OD	22/31	30/39	39/49	48/60	60/71	-	98/120	127/152	147/172	200/230
Materials:	1.4404/1.4571		•	•	•	•	•	•	•	•	•	•
	1.4301							•		•	•	•
Volume:		litres/m	0.37	0.80	1.30	2.00	3.00	5.12	8.40	14.30	17.30	23.20
Weight:	CNW	kg/m	0.30	0.40	0.63	1.00	1.24	1.90	3.50	4.75	6.00	9.50
	CNT	kg/m	0.44	0.56	0.90	1.37	1.75	-	4.50	6.60	8.30	12.70
Max. deliverable length:	as coil	m	500	500	500	500	300	190	75	60	50	
	on drum	m	2000	1500	1500	1400	1000	1400	950	650	450	245
Connecting fittings deliverable:												
- Modular system with welded end, screw thread or split loose flange			•	•	•	•	•	•	•			
- TIG welded with welded end or loose flange										•	•	•

All technical data subject to change.

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