



NOVAFAST[®]

NOVASTAND[™] PIPE

LOCATION TYP

NOVAFAST[®]

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INNOVATIVE PIPE SYSTEMS & COMPOSITE EQUIPMENT FOR CRITICAL PROCESSES

Established in 1999 in Adelaide, South Australia, Novafast® was created under the Novafast Holdings group. Novafast® caters to the need for quality composite products and materials meeting design specifications for major projects. The company flourished with national opportunities and quickly went global, supplying major clients around the world.

Over the years, Novafast® has supplied quality composite products and materials to major contracts for oil and gas, desalination plants, waste management facilities, mine processing and environmental applications in Australia, Asia and the Middle East. Novafast's® reputation has come from exceeding the client's expectations with a strong focus on research and development. A large variety of products have been developed to meet a wide range of clients needs, with the ability to custom design equipment for the most unique environments.

DISCLAIMER

NOVAFAST OFFERS IN THIS BROCHURE TECHNICAL DATA FOR THE NOVASTAND PIPE. TECHNICAL VALUES SHOULD IN NO MEANS ACT AS A SUBSTITUTE FOR A DESIGN AND NOVAFAST® RECOMMENDS DETAILED DESIGNS TO BE UNDERTAKEN BY A NOVAFAST REPRESENTATIVE FOR THE DESIGN APPLICATION OF FRE/GRE STAND PIPE.

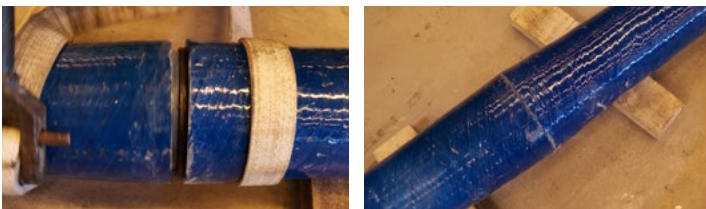


NOVASTAND PIPE

NovaStand Pipe is made from our Glass-Fibre Reinforced Epoxy (GRE) high-pressure casing system, constructed using Novafast 2000 resin and high-quality glass fibre roving using filament winding technology. Its purpose and role is designed for methane drainage and corrosive tunneling applications.

Applications (suitable for):

- Medium to severe corrosive services
- High-Pressure reinjection
- Tertiary recover injection (polymer, CO₂, NA OH)



NovaStand Pipe Joints

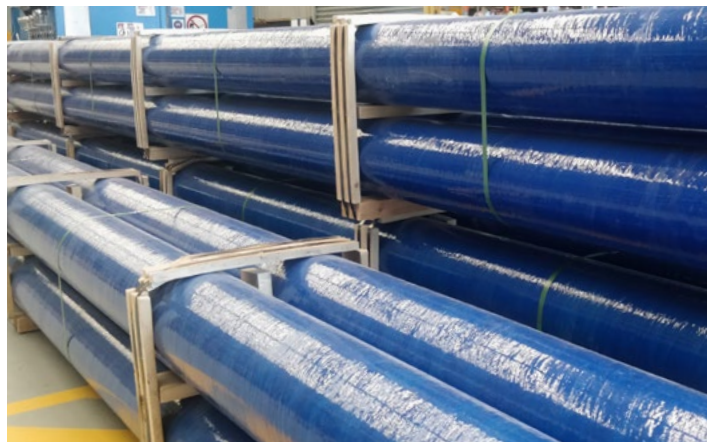
NovaStand Pipe is joined using a coarse thread for easy make-up jointing and once connected provide a shoulderless connection free from entanglement.

Jointing Accessories:

- Novaseal lubricant NC (Non-Conductive)
- Novaseal lubricant C (Conductive)
- Novaseal two-part NC (Non-Conductive)
- Novaseal two-part C (Conductive)
- Strap wrenches (threaded connections)

Packing & Transportation:

- Crate packaging for ease unloading / loading



Features/Benefits:

- Corrosion Resistant
- Fire Resistant
- Conductive
- Suitable to temperatures up to 93°C
- Lightweight
- High external collapse pressures
- High axial tensile load capabilities
- High hydrostatic pressure capabilities
- Quick Installation

Routine QA/testing:

- Measurement governance
- Visual Inspection governance
- Connection ends inspection & governance
- Hydrostatic Pressure Testing
- Batch specific high-pressure testing / destructive testing
- Determination of glass transition temperature (T_g)
- Conductivity Testing



MECHANICAL PROPERTIES

Typical Properties		
Physical Properties		
Density	1.95	g/cm ³
Thermal Conductivity	0.33	W/(m°K)
Thermal Expansion Coefficient	23 x 10 ⁻⁶	1/°K
Roughness	5.3	µm
Material Properties		
Axial Tensile Strength	73.47	MPa
Axial Elastic Modulus	13.1	GPa
Axial Poisson's Ratio	0.38	-
Hoop Tensile Strength	280	MPa
Hoop Elastic Modulus	21.2	GPa
Hoop Poisson's Ratio	0.40	-

PRODUCT CAPABILITIES

NovaStand Pipe is suitable for:

- Operating Pressures up to 4.5MPa
- Depths up to 60m

Nominal Size	External Collapse Pressure	Axial Tensile Load Rating *	
	(MPa)	(kN)	(kg)
DN100	2.49	14.8	1509
DN150	2.56	33	3365

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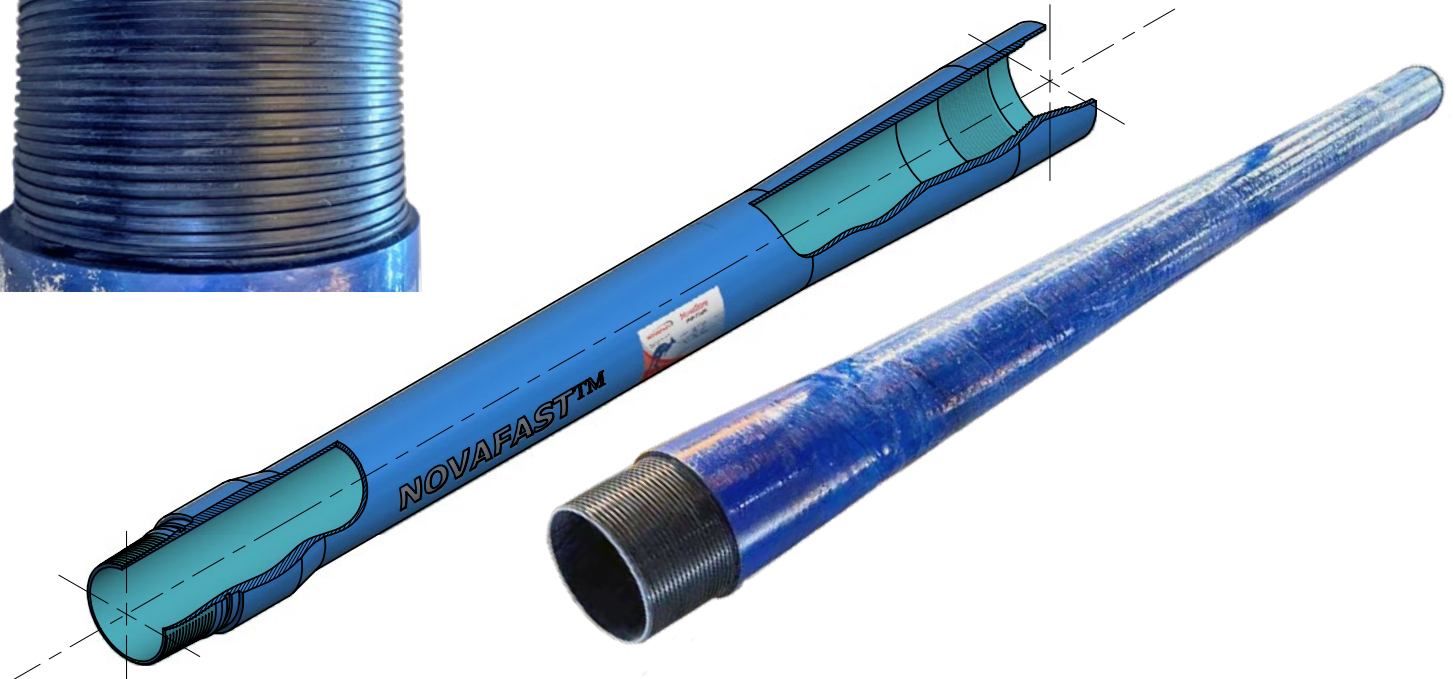
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(Values stated above are Typical Values for the Product. Please contact a Novafast representative for engineering verification and review for greater depths if required.)

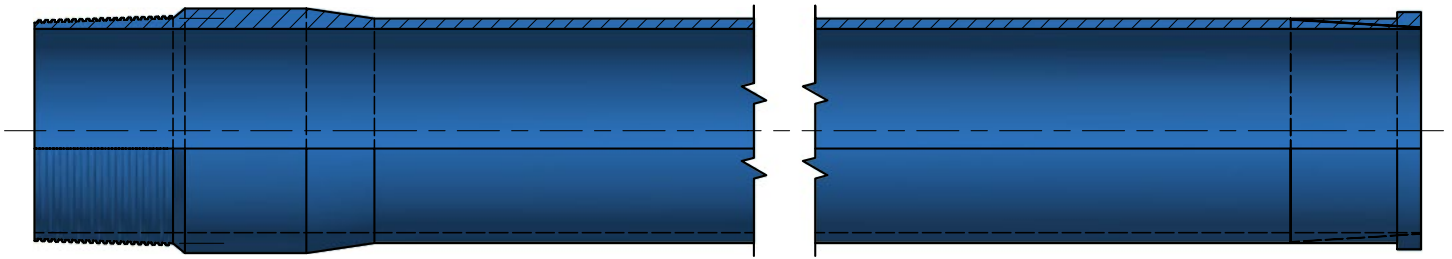
DIMENSIONAL PROPERTIES

SHOULDERLESS NOVABORE DIMENSIONS								
Nominal Pipe Size	Internal Diameter (ID)	Outside Diameter (OD)	Bell End (OD _B)	Structural Wall Thickness (t)	Length (L)		Thread Type	Mass (M)
	(mm)	(mm)	(mm)	(mm)	(m)			(kg/m)
DN100	101	113	127	6	3	5.7	BTC 1/2"	5
DN150	150	168	180	9	3	5.7	BTC 1/2"	11

NOVASTAND PIPE THREADED CONNECTIONS



SHOULDERED RING FOR VICTAULIC COUPLING CONNECTIONS



SHOULDERED RING DIMENSIONS								
Nominal Pipe Size	Internal Diameter (ID)	Outside Diameter (OD)	Shouldered Ring (OD _{SR})	Structural Wall Thickness (t)	Length (L)		Thread Type	Mass (M)
	(mm)	(mm)	(mm)	(mm)	(m)			(kg/m)
DN150	150	165.1	174.5	7.55	3	5.7	BTC 1/2"	11

SHOULDERED RING CAPABILITIES		
Nominal Pipe Size	Compressive Strength*	
	(kN)	(kg)
DN150	2.62	267

*Until 3% Deflection





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