

RTP LS HDPE PIPE – Low High Pressure

DS 647 E 0217



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Technical Data

Reinforced Thermoplastic Pipe System for medium high pressure (max 30 bar operating pressure) applications made of HDPE polyolefin material for underground installation.

Kind of Pipe	3 Layer steel reinforcement pipe system
Application	Oil field and transport pipeline, multiphase mixtures and emulsions (water, oil, gas including high content on up to 10 bar, oil well hook-up lines, water injection, flow lines in buried, offshore or onshore/under water installation, water, sewage, drinking water, snow machine, Mining, Mining shafts, Firefighting, transport of non-flammable liquids, water-based suspensions, solid suspensions (filling, hydraulic transport) processing, compressed air or inert gas, methane venting, air condition
Materials	Inner HDPE PE 100 liner, Mid layer of steel reinforcement, Cover layer of PE 100
RTP MS Pipe	RTP LS Pipe is suitable for operating pressures up to 30 bar and up to 60°C and RTP LS HT Pipe for operation up to 30 bar and up to 80°C.
Sizes	RTP LS HDPE pipes 90 – 400 mm in PN classes 6 – 30 bar (85 – 430 PSI).
Duct Length	Standard length 11,8 m
Material Properties	<ul style="list-style-type: none"> • HDPE Polyethylene PE 100 Grade PE 100 acc ASTM D 3350 min grade PE 345444 C • HDPE Polyethylene PE 100 RT
Colors	<ul style="list-style-type: none"> • Black • White (uv-stabilized) for exposed installation
Product Properties	<p>Advantages of RTP FT Pipes</p> <ul style="list-style-type: none"> • Medium high pressure flexible plastic pipeline system • Basically made of PE 100 with all extraordinary properties of HDPE • Minimum bending radius of only 1,0 -2,0 m (depending on size) can avoid fittings like bends • Easy and fast onshore installation up to 1000 m/day • Low friction, high throughput. Flow capacity of RTP LS pipe size 5' is same as 6' steel pipe due very low inner HDPE friction • Best hydraulic due to smooth inner surface. No infiltration or exfiltration, no root penetration • Fully corrosion resistant • Low maintenance • High Impact Strength • Max Hydrocarbon Fluid and Water Service temperature 60°C (HT – 80°C) • Max Water pressure 30 bar • Short term bursting pressure 50-80 bar (depend on pipe size) • Outer pressure 5 bar for all sizes • Very cost effective compared to steel pipe in corrosive environments
Jointing	<ul style="list-style-type: none"> • Pipe to pipe connection made by butt fusion and additional electro fusion fitting • Flange coupler
Fittings	Pipe to steel, pipe to flange available, Pipe to pipe electrofusion coupler
Options	RTP MS HDPE Flange pipe with integrated full pressure rating flange connections

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