Detail

[APPLICATIONS]

- *Flow Lines*
- *Crude Oil*
- *Saltwater*
- *CO_2/H_2S*
- *Supply Lines*

Lightweight, easy to handle and install, Centron® CEN Line Pipe is ideal for oil and water flow lines. Joints are made by hand, and no special tools or skills are required. The strong, coarse threads make-up fast and sure. For orientation of fittings, pipe joint may be backed off up to 360° from full make-up. The white band is used for quick and positive visual make-up verification. Centron Pipe is filament wound on polished steel mandrels to produce an exceptionally smooth inside diameter. It is highly resistant to corrosion from brines, sweet and sour crudes, H2S/CO2, and other fluids encountered in the oilfield.

FEATURES >

The chemical resistance of Centron Tubular Products is determined by the Epoxy Resin System. Centron offers two standard resin systems. The Centron anhydride/epoxy system delivers trouble free service in the vast majority of oilfield fluids to 180° F (82°C). The Centron aromatic amine/epoxy system provides service over a wide pH range up to temperatures of 210°F (99°C). Both systems may be hot oiled to 225°F (106°C) for periods of time up to 24 hours at pressures not to exceed 50% of the ambient temperature static pressure rating. Contact Centron's Customer Service Department for any application questions.

ADVANTAGES >

- Centron line pipe meets or exceeds API specification 15LR
- Centron line pipe available with API monogram
- Lower installation costs
- Installation crews need no special training or skills
- Positive method for checking joint make-up
- Completely mechanical connecting system — no waiting on weather conditions for installation
- Fast, easy on-site handling and storage
- Excellent corrosion resistance and long service life
- Smooth inside diameter for reduced paraffin and scale build-up, and greatly improved flow characteristics

Q1, 15LR, 15HR
ISO 9001

Physical Specifications

Nominal Size Inches (mm)	Series/ Rating	Nominal Outside Dia. Inches (mm)	Nominal Inside Dia. Inches (mm)	Nominal Wall TK Inches (mm)	Nominal Box O.D. Inches (mm)	Weight Lbs. / Ft. (Kg/M)	Minimum Bend Radius Feet (M)	Offset per joint Inches (M)	Support Spacing Feet (M)
2 (50)	**CEN 500** **CEN 800**	2.35 (59.7) 2.38 (60.5)	2.23 (56.6) 2.23 (56.6)	.060 (1.52) .075 (1.91)	3.12 (79.0) 3.20 (8.13)	.50 (.74) .67 (1.0)	88 (27) 92 (28)	60 (1.5) 59 (1.5)	12 (3.6) 13 (3.9)
3 (75)	**CEN 500** **CEN 800**	3.49 (88.6) 3.57 (90.7)	3.35 (85.1) 3.35 (85.1)	.070 (1.78) .110 (2.79)	4.33 (110) 4.49 (114)	.77 (1.1) 1.4 (2.1)	135 (41) 138 (42)	39 (1.0) 38 (0.9)	14 (4.2) 15 (4.6)
4 (100)	**CEN 500** **CEN 800**	4.49 (114) 4.60 (117)	4.33 (110.0) 4.33 (110.0)	.080 (2.00) .135 (3.43)	5.30 (135) 5.50 (140)	1.0 (1.5) 2.2 (3.3)	178 (54) 182 (55)	29 (0.8) 28 (0.7)	16 (4.8) 18 (5.2)

JOINT LENGTH=29.75 FT. (9.07M) **MAKE-UP LENGTH= 29.34 FT. (8.95M)**

Performance Properties[1]

RATED INTERNAL OPERATING PRESSURE				TYPICAL ULTIMATE VALUES		
Nominal Size Inches (mm)	Series	Static[2] PSI (MPa)	Cyclic PSI (MPa)	Axial Thread Load	Short Term[3] Weep Pressure PSI (MPa)	Ext. Collapse Pressure PSI (MPa)
2 (50)	**CEN 500** **CEN 800**	500 (3.45) 800 (5.51)	300 (2.07) 500 (3.45)	14,000 lbs. 14,000 lbs.	2400 (16) 3200 (22)	130 (0.9) 250 (1.7)
3 (75)	**CEN 500** **CEN 800**	500 (3.45) 800 (5.51)	300 (2.07) 500 (3.45)	24,000 lbs. 24,000 lbs.	2000 (14) 2400 (16)	60 (0.4) 200 (1.4)
4 (100)	**CEN 500** **CEN 800**	500 (3.45) 800 (5.51)	300 (2.07) 500 (3.45)	30,000 lbs. 30,000 lbs.	1600 (11) 2400 (16)	40 (0.3) 200 (1.4)

1. *In all applications chemical compatibility and physical capability of the pipe for the operating conditions must be determined.*
2. *Quasi-steady*
3. *Unrestrained across the joint strength*

General Technical Data

Mill Test Pressure:	Operating Pressure x 1.25
Axial Modulus of Elasticity:	1.85 x 10^6 PSI (1.27 x 10^4 MPa)
Hoop Modulus of Elasticity:	3.00 x 10^6 PSI (2.05 x 10^4 MPa)
Density:	0.07 lbs/in^3 (Sp. Gr.= 1.95)
Coefficient of Thermal Expansion:	1.0 x 10^{-5} in/in/°F (1.8 x 10^{-5} m/m/°C)
Hazen-Williams Flow Factor:	150
Poissons Ratio (Hoop Tensile):	.60
Poissons Ratio (Axial Tensile):	.45