



Strength and Durability for Life®

Thrust Restraint Design for Ductile Iron Pipe

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Type of Fitting:

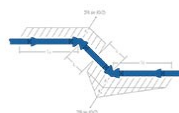
Angle of Bends:

 deg.

Diameter of Bends:

 in.

Known Length (L):

 ft.

Laying Condition:

Soil Designation:

Depth Cover:

 ft.

Design Pressure:

 psi

Safety Factor:

Vertical Offset

Unit Frictional Force: 1,202 lbs/ft

Unit Bearing Resistance: 3,480 lbs/ft

Required Restrained Length

	Bare	Polywrapped
L1	34 ft	52 ft
L2	8 ft	10 ft