

TERRABRUTE® CR

PVC piping systems for trenchless applications



Features and Benefits

- Fully-restrained integral-bell joint
- High deflection profile gasket with field proven leak-free performance
- Gasket available in Nitrile rubber for contaminated soil applications
- Meets the performance requirements of AWWA C900
- Meets NSF 61 Certification for Drinking Water System Components
- Corrosion-resistant, non-metallic ring-and-pin configuration
- Fast and easy joint assembly
- Rounded bell shoulders slide by roots, rocks, and other debris that can protrude into the bore hole
- Segmented assembly requires less space for insertion pits
- Ease of reconnection to standard PVC pipe at transition points

Installations

Trenchless

- Horizontal directional drilling (HDD)
- Sliplining
- Jack-and-bore carrier pipe

Open-cut restrained-joint

Experience

Over 1,000,000 feet installed

In-service installations since 2002



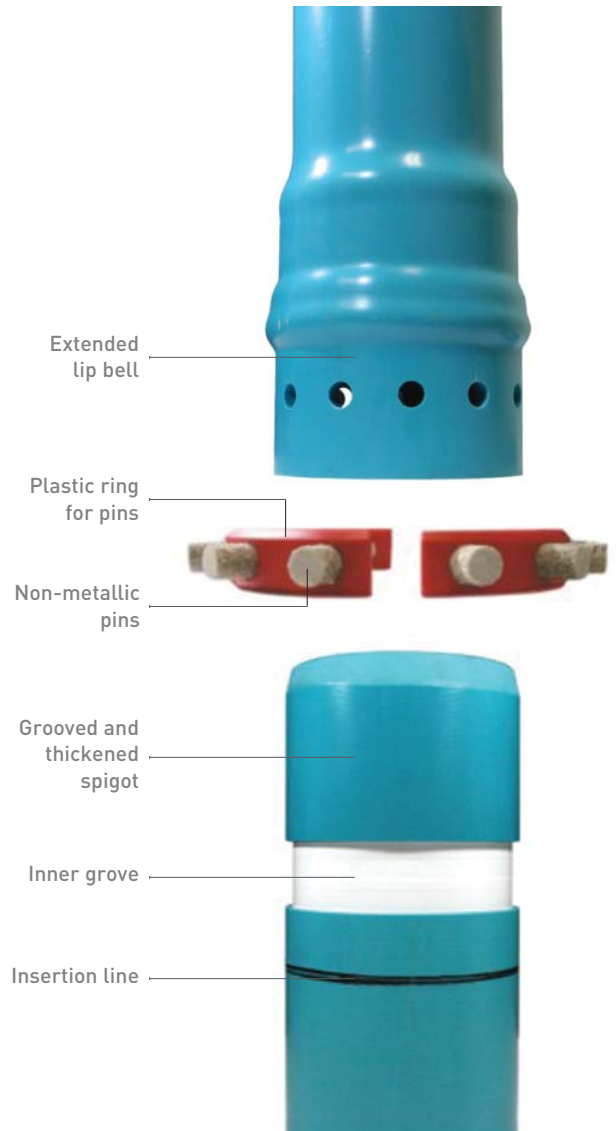
Pipe Engineering Data

Dimensions & Weights

Size (in)	DR	Bell OD (in)	Pipe OD (in)	Avg. ID (in)	Weight (lb/ft)
4	14	6.49	4.80	4.09	3.3
6	14	9.06	6.90	5.87	6.8
8	18	11.33	9.05	8.03	9.3
10	18	14.00	11.10	9.84	13.8
12	18	16.36	13.20	11.69	20.2

Bend Radius		Joint Deflection		Pull Force	
Size (in)	Minimum Bend Radius (ft)	Size (in)	Maximum Joint Deflection (deg)	Size (in)	Safe Pulling Force (lbs)
4	100	4	5.7	4	11,200
6	144	6	4.0	6	24,700
8	189	8	3.0	8	25,800
10	231	10	2.5	10	42,100
12	275	12	1.5	12	61,800

Pressures		Critical Buckling	
Dimension Ratio	Pressure Rating (psi)	Dimension Ratio	Critical Buckling Pressure (psi)
14	305	14	426
18	235	18	190



Notes

- Safe pulling force based on a safety factor of 2.0
- Bend radius based on pipe OD to allow for fittings installation, repairs, and maintenance
- Available in 20' lengths
- Other pressure classes are available upon request



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