

## S-200 Welded Steel Pipe



The strength of steel.  
The quality of Hanson.

**At Hanson Pipe & Precast, we know steel pipe offers many advantages over other piping materials.**

**It offers ductility with high strength. It's easy to fabricate. Steel is a homogeneous material with precise chemical and physical properties, so it's easy to predict how well it will stand up to ongoing use.**



Hanson steel pipe  
can be customized to  
fit with your job.

## Steel Pipe from Hanson

All Hanson steel pipe is manufactured per AWWA Standard C200. Available in diameters from 32" O.D. up to 124" O.D., Hanson steel pipe is mortar-lined (AWWA Standard C205) for maximum durability and is available with polyurethane (AWWA Standard C222) or tape (AWWA Standard C214) coating.

### Advantages

#### Fittings

Fittings can be fabricated to match the project's requirements.

#### Corrosion Resistant

The mortar lining and exterior coating applied during manufacturing provide lasting corrosion protection.

#### Performance

Steel pipe can be designed to withstand very high operating and transient pressures, and is capable of withstanding full thrust conditions.

#### Strong

Steel has substantial inherent beam strength and can resist dead and live loads in combination with the bedding materials.

## Making Pipe



### 1. Steel Cylinder

The cylinder is helically formed and welded from a continuous coil of skelp.



### 2. Plasma Cut-Off

The cylinder is cut to the required length.



### 3. Bell Expander

The bell is formed onto one end of the pipe.



### 4. Testing

To ensure watertightness, each cylinder is hydrostatically tested.



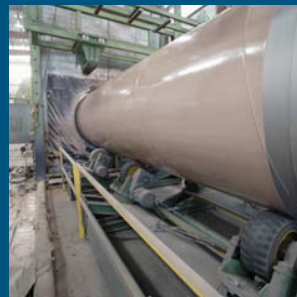
### 5. Lining

The centrifugally placed cement mortar lining forms a smooth, durable inner surface to sustain high carrying capacity.



### 6. Shotblast Booth

The pipe surface is prepared for coating.



### 7. Coating

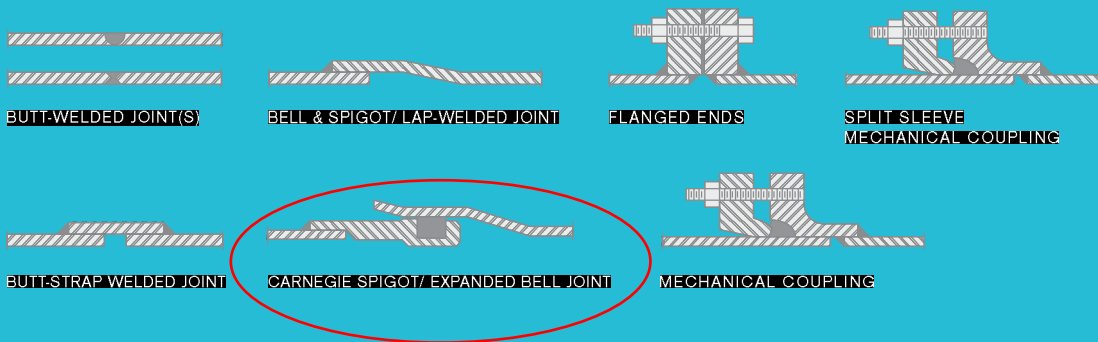
The pipe cylinder is coated for maximum corrosion protection.



### 8. Quality

An in-plant quality assurance laboratory ensures consistent excellence. Personnel in the QA/QC program are out of the production chain of command to ensure accurate, independent assessments.

## Typical Pipeline Joints



## Field Assembly

### Restrained Joint Closure

Hanson steel pipe can be fabricated with many joints, including:

- Butt-welded
- Bell & spigot; lap-welded
- Butt-strap welded
- Mechanical:
  - Bolted harnesses
  - Flanged
  - Victaulic

### Flexible Joint Closure

When flexible joint closure is required, Hanson pipe easily accepts:

- O-ring rubber gasket; bell with Carnegie spigot
- Bolted sleeve mechanical couplings
- Split sleeve mechanical couplings

### Installation Advantages:

#### Lightweight

Steel is very light relative to its strength and durability, making it very versatile.

#### Longer Laying Lengths

Steel's inherent strength allows you to save time and money by installing longer lengths of pipe.

#### Modifications

Field modifications can be faster because steel pipe can be cut and welded to meet your specific on-site needs.

**Hanson welded steel pipe is available in sizes from 32" O.D. up to 124" O.D, and joint lengths up to 50'.**

**Hanson steel pipe meets the following standards:**

**Pipe Cylinder**

AWWA C200 – Manufacture  
AWWA M11 – Design

**Welding**

AWWA C206

**Flanges**

AWWA C207

**Fittings**

AWWA C208

**Linings**

AWWA C205 – Cement Mortar  
AWWA C602 – Field Applied Mortar

**Coatings**

AWWA C214 – Tape  
AWWA C222 – Polyurethane

**Joint Protection**

AWWA C209 – Joint Wrap Tape  
AWWA C216 – Heat Shrink Sleeves

## Additional Services

### Installation

Field service expertise and consultation are available during the installation process, if needed.

### Fittings and Specials

Hanson can manufacture fittings and special pipe in virtually any size or configuration, eliminating the need for cutting and fitting in the field. Outlets can be fabricated directly into pipe sections, reducing the number of field joints required and speeding installation.

### Tapping Service

Hanson Pipe & Precast has the equipment and expertise to make pressure taps in diameters from 1" to 60" on all types of pressure pipe. We can also train your personnel in the tapping procedure.

### Welding Services

Our welders are available on an hourly basis for any required welding. Call 972.262.3600 to schedule service during regular business hours. If you are inside Texas, call us toll free at 800.441.0128. If you are outside Texas, call us toll free at 800.452.8006. For emergency repairs outside of regular business hours, call 972.266.7546, 24 hours a day, seven days a week.

Hanson's steel pipe offers the same superior quality as its traditional concrete products.







Hanson Pipe & Precast is North America's largest manufacturer of concrete pipe and precast concrete products. Our complete line of residential and commercial building components includes: bridges; manholes; and retaining walls; as well as concrete pressure pipe and welded steel pipe. Hanson's ability to deliver the best in construction materials has made us the choice of state departments of transportation, cities, counties, public authorities, the Army Corps of Engineers, airports and private entities. To learn more about how we can help you build with confidence, talk to your local Hanson representative today.

**Hanson Pipe & Precast is Your Source for:**

Bar-Wrapped Cylinder Concrete Pipe (B-303), AWWA Standard C303

Prestressed Concrete Embedded Cylinder Pipe (E-301), AWWA Standard C301

Prestressed Concrete Lined Cylinder Pipe (L-301), AWWA Standard C301

Welded Steel Pipe (S-200), AWWA Standard C200

**Hanson Pipe & Precast**

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Hanson steel and concrete pressure pipe manufacturing plants are located in Grand Prairie, TX, and Lubbock, TX.

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