CONSTRUCTION: JOINING OF PIPES BY WELDING

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STANDARD WELDING PROCEDURE SPECIFICATION # 7AH

A. Process: Manual Electric Arc

B. Material: API 5L Grade A thru X42

C. Diameter and Wall Thickness: 2 3/8 thru 6 5/8 and less than .188 WT

D. Joint Design: Standard Vee Groove, 30 Degrees

E. Filler Metal and Number of Beads: Electrode Classification

Electrode E6010 AWS Class A5.1 Minimum of 3 Passes

F. Electrical or Flame Characteristics: Reverse Polarity, Electrode Positive

G. Position: Fixed Horizontal

H. Direction of Welding: Verticle Down

I. Number of Welders: 1

J. Time Lapse Between Passes: Maximum of 5 minutes between stringer and hot pass; 3 minutes maximum when temperature is below 35° F.

K. Type of Line-Up Clamp: External

L. Removal of Line-Up Clamp: After 50% completion of stringer bead

M. Cleaning: Taper grind starts and craters and flatten crown by grinding stringer bead, power buff all remaining passes.

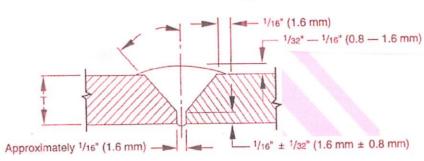
N. Speed of Travel: String bead N/A

- O. *Preheat, Stress Relief: Maximum of 300°F. Minimum of 150°F. Preheating shall be done with device or equipment which will heat entire circumference(s) in single application 2" back from pipe ends.
- P. Notes: Welded pipe strings shall be temporarily capped to prevent air draft cooling of stringer beads. Weld shall be completely protected from moisture until it has cooled to ambient temperature. Weld zone shall be protected so that the wind velocity near it does not exceed 8 miles per hour.

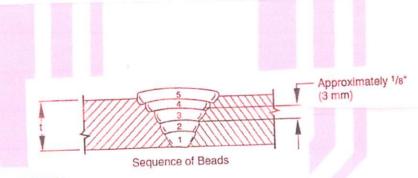
*X-Rated pipe must be stress relief if the carbon content exceeds 32% or C+1/4 Mn exceeds 65%. Heating of X-Rated pipe is limited to 600°F.

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Standard V-Bevel Butt Joint



Note: Dimensions are for example only.

Bead	Electrode	Amperage	Voltage		
No.	Diameter	Range	Range	Type Rod	Notes
1	3/32	65-80	20-25	E6010 5P+	
2	1/8 **	80-100	25-35	E6010 5P+	
3	1/8	80-100	25-35	E6010 5P+	
4	1/8	80-105	27-37	E6010 5P+	
5					

Bead No.	Notes
2	Can be ran with 3/32 rod in the same class range at 75-85 amps and 22-27 volts

WEST TEXAS GAS, INC.

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