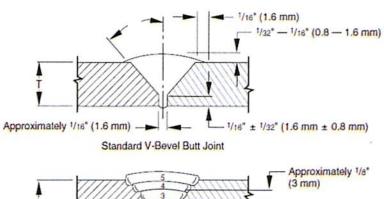
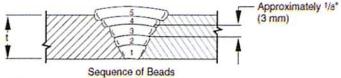
CONSTRUCTION: JOINING OF PIPES BY WELDING

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	Issued: _	8-13-07	_ Revised: _	4-8-2021	Number: _	5G	Page: _				
Sī	STANDARD WELDING PROCEDURE SPECIFICATION #5G										
B. C. D. E. F. G. H. I. J. K. L. M. O.	Process: Manual Electric Arc Material: API-5L Grade API-5L Grade A thru X 42 Diameter and Wall Thickness: 8" thru 12" and .188 thru .500 WT Joint Design: Standard Vee Groove 30 degrees Filler Metal and Number of Beads: Electrode Classification Electrode E6010 & E8010 AWS Class A 5.1—5.5 Minimum of 3 Passes Electrical or Flame Characteristics: D.C. Reverse Polarity, Electrode Positive Position: INCLINED AT 45 DEGREES Direction of Welding: Vertical Down Number of Welders: 1 Time Lapse Between Passes: Maximum of 5 minutes between stringer and hot pass 3 minutes maximum when temperature is below 35° F. Type of Line-Up Clamp: External Removal of Line-Up Clamp: After 50% completion of stringer bead Cleaning: Taper grind starts and craters and flatten crown by grinding stringer bead power buff all remaining passes. Speed of Travel: String bead 10 inches per minute maximum. *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. Notes: Welded pipe strings shall be temporarily capped to prevent air draft cooling										
	cooled to	ambient		e. Weld zor	ly protected in the shall be proper the shall be proper to the shall be proper to the shall be shall						
	8.5				oon content e nited to 600°l		s .32% o	r C+1/4 Mn			
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Note: Dimensions are for example only.

Bead No.	Electrode Diameter	Amperage Range	Voltage Range	Type Rod	Notes
1	1/8	100-125	28-35	E6010 5P+	
2	1/8	85-110	25-35	E8010 70+	
3	1/8 **	100-115	20-30	E8010 70+	
4	5/32	105-135	20-35	E8010 70+	
5	*				

Notes						
Electrodes may be substituted within Rod group AWS A5.1—A5.5						
Pass 3 may be made with 5/32 at same settings as pass 4						
Additional passes may be made using 8010 70+ 3/16 at amp						
Range 132-170 and 25-35 volts						

WELD TEST REPORT (USE SEPARATE FORM FOR EACH WELDING PROCEDURE)													
DATE WELDER'S NAME						SOCIAL SECURITY NUMBER							
8-13-07 Perrell /					aus For	XXX-XX-2519							
LOCATION NAME OF CONTRACTOR OR CO						REQUALIFYING TEST.							
POSI	Wante		West	Tans C	Sas	LEFT HANDED		QUALIFY			LINE	TEST C	i
POSITION INCLINED IN FIXED IN OX-ACETYLENE IN OUTDOOR					weather temperature			TIME OF DAY WIND BREAK				נ	
_	SPECIFICATION	· -	PIPE MANUFAC	TURER		WALL THICKN		DIAMETE	R (OD)		WEIGHT PE	R FOOT	<u> </u>
API SL GRX42 Republic					.188			85/8 16.5				24	
MAKE OF WELDING MACHINE SIZE MAKE OF OX-AI APPARATUS					~ /			OX-ACETYLENE PRESSURE FLOWING					
BRAND OF ELECTRODE BRAND OF OX-ACETYLENE ROD				D AND SIZE NUMBER OF PASSES · OX-ACET			TYLENE WELD WELDING PROCEDU				IDE NO		
Lincold NA					ula			<u>'</u>		56	,ne no.	•	
			TYPE AND SIZE	70117			T	AGE DG VOLTAGE					
		CLEGINODE	TITE AND SIZE		COARSE FINE		AMPERAGE RG.		VOLTAGE RG.		-		
3	STRINGER 4	11 1/1	59+	r o +		45 150-125		10.	10_20				
PIPE WELD	HOT PASS LIN 1/8 70+			**************************************	120-190	55	85-		28-35				
ъ.	FILLER (S)	N 1/8	70+	120-190		55			20-90				
	CAP PASS	21						100-115					
	CAP PASS	COUPON	20+	00000000	120-190	<i>45</i>	105-1	<u> </u>	20.	-25		Τ	
TENSILE TESTS	LOCATION	LENGTH	WIDTH	CROSS SEC. AREA SQ. IN.	LOAD	% ELONG.	COMPUTED TENSIL PSI		REMARKS			AC- CEPTED	RE- JECTED
	171	8"	,"	, 190	12,500	20%	105,789	No defect		<u> </u>	\ \\		
	272	8"	, "	.190	12,500	25%	15 785	1 de	de	for	1	~	
	3				7	-							
													
	4 COUPON		TYPE OF DEUD		REMARKS					·····	AC-	RE-	
	LOCATION	Λ	TYPE OF BEND	<u> </u>	REMARKS						 	JECTED	
	12/	Loc	2 <u>E</u>		No defect							1	-
ESTS	2 R2	Ros	<u>t </u>		No defect							1	_
BEND TESTS	3 F/	For	: =			11					\ \\		
ш	4 /=2	in	ے		"							V	
	COUPON LOCATION			•	REMARKS						AÇ- CEPTED	RE-	
STS	. Tal	21		m-la.	/								
NICK-BREAK TESTS	31		11	F. F. F. Colored								v	
	2 11			veld has be	en visually and dastructively once with APL-1104								
	3	This wold has been visually agreement the second of the se									<u> </u>	L	
	4												
EST	SIZE AND WALL THICKNESS OF MAIN GAS PRESSU						F FRACTURE ELD Q NIPPLE Q MAIN Q					l	
TEE WELD TEST	DID WELD CONTAIN: PINHOLES COLDROLL UNDERC				DEPTH OF UNI			NDERCUT LENGTH OF UNDE				ERCUT	
	REMARKS ON							.			· · · · · · · · · · · · · · · · · · ·		
PIPE WELD QUALIFIED CE ELECTRIC ARC TEE WELD QUALIFIED CHECTRIC ARC													
TESTED BY SIGNATURE OX			ACETYLENE	0	TITLE / //	I NOT QUA	LIFJED C	OX-A	CETYLENE		<u></u>		
IN Market Walder Species													