

SERVICE: Sour Water and Corrosive Hydrocarbons	CLASS: BC PAGE 1 OF 3
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RATING: Class 300 FACING: RF MATERIAL: Carbon Steel	CORROSION ALLOWANCE: 0.25 Inches PRESSURE LIMIT: Per ANSI B16.5 TEMPERATURE LIMIT: -20°F - 600°F
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ITEM	SIZE	DESCRIPTION	NTS	REV
VALVES --GLOBE --CHECK PIPE NIPPLES		1. Gate, Globe, and Check 12 Cr Trim with Graphitic Packing (non Asbestos) unless otherwise specified. Class 800 Stl SW ANVIL #821-3-1 2 ¹¹ Class 800 Stl SW x Scrd ANVIL #821-5-11 Class 300 Stl 1 ¹¹ RF ANVIL #321-4-1 2 ¹¹ - 10 ¹¹ Class 300 Stl RF PACIFIC #350-1 12 ¹¹ - 24 ¹¹ Class 300 Stl RF PACIFIC #350-1	V1 V2	
		- Gear Operated 3/4 ¹¹ 1-1/2 " 1class 800 Stl SW ANVIL #830-3-1 2 ¹¹ - 4 " Class 300 Stl RF PACIFIC #360-1 3/4 ¹¹ - 1-1/2 ¹¹ Class 800 Stl Hor Lft SW ANVIL #847-3-1 2 ¹¹ 24 ¹¹ Class 300 Stl Swing RF PACIFIC #380-1 Smls Stl ASTM A106 Gr B 3/4 " - 1-1/2" XXS 2 ¹¹ SCH 160 4 " Only SCH 120 6 ¹¹ 10 ¹¹ XS 12 ¹¹ - 24 ¹¹ SCH 160 1 ¹¹ XXS Smls Stl ASTM A106 Gr B 1/2 ¹¹ 1-1/2 ¹¹		1 1 1
		TBE 3 ¹¹ Long TBE 6 ¹¹ Long TOE 3 ¹¹ Long TOE 6 ¹¹ Long PBE 3 ¹¹ Long PBE 6 ¹¹ Long		

REFINING & MARKETING	UNIT DIESEL HDS	REV 1
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--GATE | 3/4¹¹ - 1-1/
1/2¹¹ - 1-1/2
3/4¹¹ - 1-1/2

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ITEM	SIZE	DESCRIPTION	NTS	REV
FITTINGS! BRANCH	3/4"- 1-1/2" 2 . 3 " " 4"- 24" 1/2"- 1-1/2 " 1x 1/2"- 1-1/2"	19000# Stl SW ASTM A105 Cap 90° Elbow 45° Elbow Tee Sockolet Elbolet Coupling Union (GJ, Integral Seat) Cap, Scrd Thredolet Elbolet, Scrd Plug, Round Head Solid Stl, Scrd Smls Stl Buttwelding ASTM A234 Gr WPB SCH 160 Wall thickness to match pipe Cap 90° LR Elbow 90° SR Elbow 45° Elbow Tee Weldolet, ASTM A105 Cone Reducer Ecc Reducer Elbolet, ASTM A105 xs Cone swage BBE BLE/TSE TLE/BSE TBE XXS Ecc Swage BBE BLE/TSE TLE/BSE TBE Fl - Use only for temperature connection Refer to Para 6.6 Branch Connections	I	
CONNECTIONS			Fl	
REFINING & MARKETING		UNIT	REV	
		DIESEL HDS	0	
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ITEM	SIZE	DESCRIPTION	NTS	REV
PIPE INSTR. CONNECTIONS		Primary Instr Conn's to Piping Temperature Conn's- -----1-1/2 " Flgd Pressure Conn's-----3/4" SW Orifice Tap Conn's-----1/2" Scrd Secondary Piping S-3		

EQUIP. INSTR. CONNECTIONS		Vessel & Exchanger Instrument Conn's Table I	
FLANGES ORIFICE FLANGES	3/4"- 1-1/2" 211- 311 4" 24" 3/4 " 24" . 2"- 24 "	300# Stl RF ASTM A105 ^{SW} (XXS Bore) WN (Sch 160 Bore) WN (Bore to match pipe) Blind 300# Stl RF ASTM A105 w/\ " Scrd Taps Slip-on -----	
GASKETS	3/4"- 24" 2" 24"	Spiral Wound 316SS w/Flexite Fiber, 1/8 " ^{thk} centering ring, Flexitallic Style CG. For 300# Flanges For 300# Orifice Flanges	
BOLTS	3/4"- 24" 2" 24"	Stud Bolts ASTM A193 Gr B7 w/2 Hvy Hex Nuts ASTM A194 Gr 2H For 300# Flanges For 300# Orifice Flanges	
REFINING & MARKETING		UNIT DIESEL HDS	REV 0