

SERVICE: OFF-GAS	CLASS: AB PAGE 1 OF 3/
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RATING: CLASS 150	CORROSION ALLOWANCE: .25 INCHES
FACING: RF	PRESSURE LIMIT: AS PER ANSI B16.5
MATERIAL: CARBON STEEL	TEMPERATURE LIMIT: -20°F TO 550°F

ITEM	SIZE	DESCRIPTION	NTS	REV
NOTE		ALL BUTT WELDS SHALL BE STRESS RELIEVED IF NOTED.	V1 V2	
VALVES --GATE --GLOBE --CHECK	3/4 <sup>11</sup> - 1-1/2 <sup>11</sup> 1/2 <sup>11</sup> - 1-1/2 <sup>11</sup> 3/4 <sup>11</sup> - 1-1/2 <sup>11</sup> 2" and 3" 4 <sup>11</sup> 12 <sup>11</sup> 14 <sup>11</sup> - 24 <sup>11</sup> 3/4 <sup>11</sup> - 1-1/2 <sup>11</sup> 2" and 3" 4 <sup>11</sup> Only 3/4"-1-1/2" 2" and 3" 4 <sup>11</sup> 24 <sup>11</sup>	Gate, Globe, and Check Valves 316SS trim with graphitic (Asbestos Free) packing unless otherwise specified. Class 800 Stl SW ANVIL #821-3-2 Class 800 Stl SW x Scrd ANVIL #821-5-2 Class 150 Stl RF ANVIL #121-4-2 Class 300 Stl RF PACIFIC #350- Class 150 Stl RF PACIFIC #150- Class 150 Stl RF PACIFIC #150- <del>- Gear Operated -</del> Class 800 Stl SW ANVIL #830-3-2 Class 300 Stl RF PACIFIC #360- Class 150 Stl RF PACIFIC #160- Class 800 Stl SW Hor Lft ANVIL #847-3-2 Class 300 Stl Swing RF PACIFIC #380- Class 150 Stl Swing RF PACIFIC #180- V1 - Use for vents, drains, and instu- ment connections where a threaded outlet is required. V2 - Use against flanged equipment nozzles.		
PIPE	3/4 <sup>11</sup> - 1 -1/2 <sup>11</sup> 2" - 3 <sup>11</sup> 4 <sup>11</sup> 8 <sup>11</sup> 10 <sup>11</sup> - 18 <sup>11</sup> 20" Only	Smls Stl ASTM A106 Gr. B  XXS SCH 160 XS STD XS		
NIPPLES	1/2 <sup>11</sup> - 1-1/2"	XXS Smls Stl ASTM A106 Gr. B  TBE 3" Long TBE 6 <sup>11</sup> Long (TBE=Threaded both ends) TOE 3 <sup>11</sup> Long (TOE=Threaded one end) TOE 6 <sup>11</sup> Long (PBE=Plain both ends) PBE 3" Long PBE 6 <sup>11</sup> Long		

REFINING & MARKETING	UNIT DIESEL HDS	REV 0
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ITEM	SIZE	DESCRIPTION	NTS	REV
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FITTINGS!	3/4''- 1-1/2'' 2- 3'' 4- 8 '' 10'' 18'' 2Q'' only  Cap 90° LR Elbow 90° SR Elbow 45° Elbow Tee Weldolet, ASTM A105 Cone Reducer Ecc Reducer Elbolet, ASTM A105 1/2"- 1-1/2 " Cone Swage, XXS BBE BLE/TSE TLE/BSE TBE 1/2" 1-1/2" Ecc Swage, XXS BBE BLE/TSE TLE/BSE TBE F1 - Use only for temperature connections. F2 - Use only for unvalved vents or drains.	9000# Stl SW ASTM A105 Cap 90° Elbow 45° Elbow Tee Sockolet Elbolet Coupling Union (GJ, Integral Seat) Cap, Scrd Thredolet Elbolet, Scrd Plug, Round Solid Stl, Scrd Smls Stl Buttwelding ASTM A234 Gr WPB SCH 160 XS STD XS	F2 F1 F1	
REFINING & MARKETING		UNIT DIESEL HDS	REV 0	
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ITEM	SIZE	DESCRIPTION	NTS	RE V
BRANCH CONNECTIONS		Refer to Para 6.6 Branch Connections	L1	

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	<b>2 "and 3 "</b> 2"and 3" 3/4"- 1-1/2" 4"- 8" 10"- 18" 20" Only 3/4"- 20" 2'' 20''	300# Stl RF ASTM A105 WN (SCH 160 Bore) Blind 150# Stl RF ASTM A105 SW (XXS Bore) WN (XS Bore) WN (STD Bore) WN (XS Bore) Blind 300# Stl RF ASTM A105 w/ 1/2" Scrd Taps Slip-on L1 - Use only against 300# flanges and valves  -----	
GASKETS	3/4"- 20" <b>2 "and 3 ''</b> 2"- 20"	Spiral Wound 316SS w/Flexite fiber, 1/8'' thk centering ring, <sup>Flexitallic</sup> Style CG. For 150# Flanges For 300# Flanges For 300# Orifice Flanges	
BOLTS	3/4"- 20" 2"and 3" 2'' 20''	Stud Bolts ASTM A193 Gr B7 w/ 2 Hvy Hex Nuts ASTM A194 Gr 2H For 150# Flanges For 300# Flanges For 300# Orifice Flanges	
REFINING & MARKETING		UNIT DIESEL HOS	<b>REV</b> 0