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| SERVICE: Steam, Condensate, Boiler Feedwater | CLASS: R PAGE 1 OF 4 |
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| RATING: CLASS 150 | CORROSION ALLOWANCE: .0625 Inch |
| FACING: RF | PRESSURE LIMIT: Per ANSI 816.5 |
| MATERIAL: Carbon Steel | TEMPERATURE LIMIT: -20°F - 750°F |

| ITEM | SIZE | DESCRIPTION | NT S I | REV |
|---------|----------------|---|--------|-----|
| VALVES | 3/4''- 1-1/2'' | Gate, Globe, and Check Valves 12 Cr and | V | |
| --GATE | 1/2''- 1-1/2'' | Stellite trim with Graphitic Packing (non | 1 | |
| --GLOBE | 3/4''- 1-1/2'' | asbestos) unless otherwise specified. | V | |
| --CHECK | 2" and 3 " | Class 800 Stl SW ANVIL #821-3-1 | 2 | |
| PIPE | 4''- 12'' | Class 800 Stl SW x Scrd ANVIL #821-5-11 Class 150 | | |
| | 14''- 24'' | Stl RF ANVIL #121-4-1 | | |
| | 3/4''- 1-1/2'' | Class 300 Stl RF PACIFIC #350-U | | |
| | 2" and 3" | Class 150 Stl RF PACIFIC #150-U | | |
| | 4" Only | Class 150 Stl RF PACIFIC #150-U | | |
| | 3/4''- 1-1/2'' | Class 150 Stl RF PACIFIC #150-U | | |
| | 2"and 3" | - Gear Operated | | |
| | 4" 24" | Class 800 Stl SW ANVIL #830-3-1 | | |
| | 3/4" 1-1/2" | Class 300 Stl RF PACIFIC #360-U | | |
| | 2" Only | Class 150 Stl RF PACIFIC #160-U | | |
| | 3"- 24" | Class 800 Stl SW Hor Lft ANVIL #847-3-1 Class 300 Stl | | |
| | 30" Only | RF Swing PACIFIC #830-U Class 150 Stl RF Swing | | |
| | | PACIFIC #180-U | | |
| | | V1 - Use for vents, drains, and instru- ment connections where a threaded outlet is required. | | |
| | | V2 - Use against flanged equipment nozzles. | | |
| | | Smls Stl ASTM A106 Gr B | | |
| | | XS XS STD | | |
| | | EFW Stl ASTM A672 Gr 870 Class 32 | | |
| | | .500" Wall | | |

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| /\ /\ W | DIAMOND SHAMROCK REFINING & MARKETING | UNIT | REV 0 |
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DIESEL
HOS

SERVICE: Steam, Condensate, Boiler Feedwater

CLASS: R PAGE 2
OF 4

| ITEM | SIZE | DESCRIPTION | NTSI | REV |
|----------------------|--|--|----------|-----|
| NIPPLES FITTINGS! | 1/2" 1-1/2 " 3/4"- 1-1/2" 2" Only 3"- 24 " 1/2" 1-1/2" | Srnls Stl ASTM A106 Gr B TBE 3" Long, ^{SCH} 160 TBE 6" Long, ^{SCH 160} TOE 3" Long, ^{SCH 160} TOE 6" Long, ^{SCH 160} PBE 3 " Long, ^{XS} PBE 6" Long, ^{XS} 3000# Stl SW ASTM A105 Cap 90° Elbow 45° Elbow Tee Sockolet Elbolet Coupling Union (GJ, Integral Seat) Cap, Scrd Thredolet Plug, Round Solid Stl, Scrd Smls Stl Buttwelding ASTM A234 Gr WPB XS STD WT Cap 90° LR Elbow 90° SR Elbow 45° Elbow Tee Weldolet, ASTM A105 Cone Reducer Ecc Reducer Elbolet, ASTM A105 Cone Swage BBE XS BLE/TSE SCH 160 TLE/BSE SCH 160 TBE SCH 160 | F2 F1 | |

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| SERVICE: Steam, Condensate, Boiler Feedwater | CLASS: R PAGE 3 OF 4 |
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| ITEM | SIZE | DESCRIPTION | NTS | REV |
|----------------------|--------------|--|-----|-----|
| | 1/2"- 1-1/2" | Ecc swage BBE XS BLE/TSE SCH 160 TLE/BSE SCH 160 TBE SCH 160 F1 - Use only for temperature connection F2 - Use only for unvalved vents and drains. | | |
| BRANCH | | | | |
| CONNECTIONS | | | | |
| PIPE INSTR. | | Primary Instrument 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-1 | | |
| CONNECTIONS | | | | |
| EQUIP. INSTR. | | Vessel & Exchanger Instr. Conn's Table I | | |
| CONNECTIONS | | | | |

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| FLANGES ORIFICE FLANGES | 2" Only 3" Only 211- 311 3/4 " 1-1/2" - 411 2411 3/4"- 24" 30" Only 2" 2411 - | 300# Stl RF ASTM A105 WN (XS Bore) WN (STD Bore) Blind 150# Stl RF ASTM A105 SW (XS Bore) WN (STD WT Bore) Blind 150# Stl RF ASTM A105, to MSS-SP-44 WN (XS Bore) 300# Stl RF ASTM A105 w/' ' Scrd Taps SLIP ON L1 - Use only against 300# Flanges and valves.----- | L1 |
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| ^ DIAMOND SHAMROCK ^ REFINING & MARKETING W | UNIT DIESEL HDS | REV 0 |
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| SERVICE: Steam, Condensate, Boiler Feedwater | CLASS: R PAGE 4 OF 4 |
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| ITEM | SIZE | DESCRIPTION | NTS | REV |
|---------|---------------------------------------|--|-----|-----|
| GASKETS | 211 24" | Spiral Wound 316 SS w/Flexite fiber, 1/8" thk centering ring, Flexitallic Style CG For 300# Flanges For 150# Flanges For 300# Orifice Flanges | | |
| BOLTS | 211- 31111 3/4"- 30 11 211 2411 | Stud Bolts ASTM A193 Gr B7 w/2 Hvy Nuts ASTM A194 Gr 2H For 300# Flanges For 150# Flanges For 300# Orifice Flanges | | |
| TUBING | | Smls 316 SS Fully Annealed ASTM A269, Gr TP316 | | |

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| | 1/4"- 1/2"OD | 0.035 " Wall Thickness | |
| TUBE FITTINGS | 1/4"- 1/2" | 316 SS Compression Type Female Connector Male Connector Female NPT Elbow Male NPT Elbow Tee Union | |
| STEAM TRAPS | 1/2" Only | 600# 1-1/4 Cr Scrd Thermodynamic Type w/ integral strainer & blowdown valve Yarway #720A | |
| ^ ^^ W | DIAMOND SHAMROCK REFINING & MARKETING | | REV 0 |
| | UNIT DIESEL HDS | | |
