

<b>SERVICE:</b> Cooling Water, Service Water, and Plant Air	<b>CLASS: W PAGE</b> 1 OF 4
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<b>RATING:</b> CLASS 150	<b>CORROSION ALLOWANCE:</b> .0625 Inch
<b>FACING:</b> RF	<b>PRESSURE LIMIT:</b> 200 PSIG
<b>MATERIAL:</b> carbon Steel	<b>TEMPERATURE LIMIT:</b> to 200°F

ITEM	SIZE	DESCRIPTION	NTS	REV
VALVES --CHECK		Trim - Bronze for D.I. valves 12 Cr and Stl valves unless otherwise specified. Packing - Manufacturer's standard (non asbestos) Class 800 Stl Scrd ANVIL #821-2-1 Class 150 Stl RF PACIFIC #150-1 Class 800 Stl Scrd ANVIL #830-2-1 Class 150 Stl RF PACIFIC #160-U		
	2" 12" 2" 4"			
	1 1/2"- 2 1/2"	Class 800 Stl Sers ANVIL #847-2-1		
	- Hor Lft			
	3" 12"	Class 150 Stl RF Swing PACIFIC #180-1		
--BUTTERFLY				

<p>--BALL  </p>	<p>3"- 6" Class 150 D.I., Wafer Lug Type, w/alum/brz Disc, Carbon Stl Stem, Brz Bushings, Buna-N Seat Std. Handle (DIT) Centerline #Series LT</p> <p>8" 20" Class 150 D.I., Wafer Lug Type, w/alum/brz Disc, Carbon Stl Stem, Brz Bushings, Buna-N Seat Gear Operated Centerline #Series LT</p> <p>1/2"- 2" !Class 300# Stl - Screwed McManna #S302-CS-T-S6</p> <p>3" 6" !Class 150# Stl RF McManna #S151-CS-F-S6</p>	
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<p><b>REFINING &amp; MARKETING</b></p>	<p><b>UNIT</b> DIESEL HOS</p>	<p><b>REV</b> 0</p>
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--GATE | 1/2"

3" 1"

--GLOBE | 1/2"

3" 1"

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ITEM	SIZE	DESCRIPTION	NTS J	RE V
PIPE	1/2" 2" - 24"	Smls Stl ASTM A106 Gr B		
	3" 2" 1/2" 2" - 24"	XS STD		
NIPPLES	3" 2" 1/2" 2"	Smls Stl ASTM A106 Gr B		
	1/2" "	TBE 3" Long, XS TBE 6" Long, XS		
FITTINGS!		300# MI Scrd ASTM A197		

Cap  
 90° Elbow  
 45° Elbow  
 Tee  
 Thredolet, 3000# FS ASTM A105  
 Elbolet, Scrd, 3000# FS ASTM A105  
 Coupling, Scrd, 3000# FS ASTM A105  
 Union, BR to Iron Seats  
 Plug, Round Solid Stl, Scrd, ASTM A105  
 Stl Buttwelding ASTM A234 Gr WPB  
  
 STD WT  
 Cap  
 90° LR Elbow  
 90° SR Elbow  
 45° Elbow  
 Tee  
 Cone Reducer  
 Ecc Reducer  
 Cone Swage, XS  
 TBE  
 BLE/TSE  
 Ecc Swage, XS  
 TBE  
 BLE/TSE  
 F5 - Use swages where small end is 2"  
           and smaller, use weld reducers  
           where small end is 3" and larger.

F5  
 F5  
 F5  
  
 F5

<b>REFINING &amp; MARKETING</b>	<b>UNIT</b>	<b>REV</b>
	DIESEL HDS	0

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ITEM	SIZE	DESCRIPTION	NTS	IRE
BRANCH		<u>BRANCH</u> Full Tee	R7	V

1/2" 1 1/2 Reducing only

<p>CONNECTIONS  <u>HEADER</u>  PIPE INSTR. CONNECTIONS  EQUIP. INSTR.  CONNECTIONS</p>	<p>1/2" - 2" Reducing only Tee  1/2" - 2" Reducing only Thredolet  Full Tee  3" - 22" Reducing only Stub-in  R7 - Stub-in shall be in accordance with ANSI B31.3  Primary Instrument Conn's to Piping  Temperature Conn's-----1" Scrd  Pressure Conn's-----3/4" Scrd  Orifice Tap Conn's-----1/2" Scrd  Secondary Piping S-5  Vessel &amp; Exchanger Instr. Conn's Table I  150# Stl RF ASTM A105  Scrd  WN (Std Wt Bore) Blind  JOO# Stl RF ASTM A105 w/), " Scrd Taps  SLIP-ON</p>			
<p>FLANGES  ORIFICE  FLANGES</p>	<p>1/2" 2"  -  3" 24"  -  1/2" 24"  -  2" 24"  -</p>			
<p>REFINING &amp; MARKETING</p>		<p>UNIT  DIESEL HDS</p>	<p>REV  0</p>	

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ITEM	SIZE	DESCRIPTION	NTS I	RE V
GASKETS	3/4 <sup>11</sup> - 24 <sup>11</sup>	Spiral Wound 316 SS w/Flexite fiber, 1/8'' thk centering ring, Flexitallic Style CG For 150# Flanges For 300# Orifice Flanges		
BOLTS	2 <sup>11</sup> - 24 <sup>11</sup>	Stud Bolts ASTM A193 Gr B7 w/2 Hvy Hex Nuts ASTM A194 Gr 2H For 150# Flanges For 300# Orifice Flanges		
STRAINERS	1 1/2 <sup>11</sup> - 2 4 <sup>11</sup>	250# CI scrd, ss Screen w/.033" Perf. Scrd Blow-off Conn. Yarway #901		
"Y" TYPE	2"- 24 <sup>11</sup>  1/2"- 2 <sup>11</sup>  3 1 <sup>11</sup> 4 <sup>11</sup>	150# Stl RF Flgd. w/.033 " perforated SS screen, bolted Screen cover w/Scrd Blow-off Conn. Yarway #828		

<b>REFINING &amp; MARKETING</b>	<b>UNIT</b>  DIESEL HDS	<b>REV</b> 0
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