

SERVICE: Heavy Hydrocarbons {Over 400°F)	CLASS: BE
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RATING: Class 300	CORROSION ALLOWANCE: 0.25 Inches
FACING: RTJ	PRESSURE LIMIT: Per ANSI B16.5
MATERIAL: Carbon Steel	TEMPERATURE LIMIT: 400°F - 600°F

ITEM	SIZE	DESCRIPTION	NT SI	REV
VALVES	3/4"- 1-1/2" 1/2"- 1-1/2" 3/4"- 1-1/2" 2" - 10" 12"- 24" 3/4" 1-1/2" !C	1. Gate, Globe and Check Stellited 12 Cr trim with Graphitic Packing (non asbestos) unless otherwise specified. 2. Orbit Valves shall have manufacturer's standard trim and packing.		
--GATE	2"- 4" 3/4" 11 - 1-1/2 !C 2"- 24" 1" - 1-1/ 2" 2" 8"	Class 800 Stl SW ANVIL #821-3-1 Class 800 Stl SW x Scrd ANVIL #821-5-11 Class 300 Stl RTJ ANVIL #321-R-1 Class 300 Stl RTJ PACIFIC #350-1 Class 300 Stl RTJ PACIFIC #350-1 - Gear Operated Class 800 Stl SW ANVIL #830-3-1 Class 300 Stl RTJ PACIFIC #360-1	V V2	
--GLOBE	3/4"- 1-1/2" 2" 3"	Class 800 Stl SW Hor Lft ANVIL #847-3-1 Class 300 Stl Swing RTJ PACIFIC #380-1 (Temp Limit 400°F Max)		
--CHECK	4"- 10" 12" 16"	Class 600# Stl SW ORBIT #1463 (Full Port)	V3	
--ORBIT	18" Only 20"- 24"	ORBIT #1263 Class 300# Stl BW (Full Port)		
		V1 - Use for vents, drains, and instrument connections where a threaded outlet is required. V2 - Use against flanged equipment nozzles. V3 - Use onlu where indicated on P&ID. Smls Stl ASTM A106 Gr B		
		XXS Sch 160 Std Wt Sch 40 XS Sch 40		
PIPE				1 1 1

					1
REFINING & MARKETING			UNIT		REV
			DIESEL HDS		1
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ITEM	SIZE	DESCRIPTION	NT	IREV	
NIPPLES FITTINGS	1/2" 1-1/2"	XXS Smls Stl ^{TBE} ASTM A106 Gr B 3" Long TBE 6" Long TOE 3" Long TOE 6" Long PBE 3" Long PBE 6" Long	S F2 F1		

3/4"- 1-1/2"
211- 311
 4" 24"
 1/2''- 1-1/2''
 1x

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 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

REFINING & MARKETING

UNIT
 DIESEL HOS

REV
 0

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	1/2"- 1-1/2"	XXS Ecc Swage BBE BLE/TSE TLE/BSE TBE F1 - Use only for temperature connection ^{F2} - Use only for unvalved vents and drains.		
BRANCH CONNECTIONS		Refer to Para 6.6 Branch Connections		
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" 2" 3" 4"- 24" 3/4"- 24" 2" 24"	300# Stl RTJ ASTM A105 SW (XXS Bore) ^{WN} (Sch 160 Bore) WN (Bore to match pipe) Blind 300# Stl RTJ ASTM A105 w/\'' Scrd Taps Slip- on -----		
GASKETS	3/4"- 24" 2" 24"	Soft iron oval ring per ANSI B16.20, Parker style P-950 or equal. For 300# RTJ Flanges For 300# RTJ 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# RTJ Flanges For 300# RTJ Orifice Flanges		
REFINING & MARKETING			UNIT DIESEL HDS	REV 0

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