

SERVICE: Diesel Feed, Treat Gas
RATING: CLASS 900 **FACING:** RTJ
MATERIAL: 9-CR - 1-MO

CLASS: GA
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CORROSION ALLOWANCE: .0625 Inch
PRESSURE LIMIT: 1000 PSIG
TEMPERATURE LIMIT: -20°F - 750°F

ITEM	SIZE	DESCRIPTION	NTSIREV
VALVES			
--GATE	I 3/4"- 1-1/2 ¹¹	1. Gate, Globe, and Check 321SS trim with Graphitic packing (non asbestos) unless otherwise specified.	
	1/2 ¹¹ - 1-1/2 ¹¹	2. Gate, Globe, and Check Valves 3-inch	1
	3/4 ¹¹ - 1-1/2 ¹¹	and larger shall be forged alloy with pressure seal bonnet design.	
	2 ¹¹ 8 ¹¹	3. Orbit valves shall have Manufac- turer's standard trim and packing.	
	10 ¹¹ - 24 ¹¹	4. ALL PIPING WELDS REGARDLESS OF	3
		THICKNESS SHALL BE STRESS RELIEVED.	
		800# 9-Cr SW	VOGT #SW-12111F9
		800# 9-Cr SW/SCRD	VOGT #TSW-12111F91 V1
		900# 9-Cr RTJ	VELAN #R-7-06-4B-09-MS V2
		900# 9-Cr BW	VELAN #B-7-06-4P-09-MS
		900# 9-Cr BW	VELAN #B-7-06-4P-09-MS
		- Gear Operated	
GLOBE	3/4"- 2 ¹¹	1690# 9-Cr SW	VELAN #W-8-07-6Y-09-MSI V31 1
	3 ¹¹ 8 ¹¹	- Y-Pattern	
		900# 9-Cr BW	VELAN #B-8-07-4P-09-MSI I 2
--CHECK	3/4"- 1-1/2 ¹¹	1800# 9-Cr SW	VOGT #SW-701F8M-F9 VELAN #B-7-03-
	2 ¹¹ - 8 ¹¹	900# 9-Cr BW	4P-09-MS
		V1 - Use for vents and instrument connections where a threaded connection is required.	
		V2 - Use against flanged equipment nozzles.	
		V3 - Use for drain connections.	

PIPE	3/4"- 1-1/2 ¹¹	Smls 9-Cr ASTM A335 Gr
	2 ¹¹ Only	P9 SCH 160
	2 ¹¹ - 3 ¹¹	SCH 160 XS
	4 ¹¹ Only	SCH 120 XS
	6 ¹¹ Only	SCH 100
	8 ¹¹ - 12"	SCH 80
	14"- 24 ¹¹	

REFINING & MARKETING

UNIT

REV
3

DIESEL				
RDS				
SERVICE: Diesel Feed, Treat Gas			CLASS: GA PAGE 2 OF 3	
ITEM	SIZE	DESCRIPTION	NTS I	REV
NIPPLES	1/2"- 1-1/2"	Smls 9-Cr ASTM A335 Gr P9, ^{xxs} TBE 3" Long TBE 6" Long TOE 3" Long TOE 6" Long PBE 3" Long PBE 6" Long		
FITTINGS	1/2"- 1-1/2"	6000# 9-Cr SW ASTM A182 Gr F9 Cap 90° Elbow 45° Elbow Tee Sockolet Elbolet Coupling Union Cap, scrd Elbolet, Scrd Thredolet Plug, Round Solid, Scrd 9-Cr Buttwelding ASTM A182 Gr F9 Wall thickness to match pipe Cap 90° LR Elbow 45° Elbow Tee Weldolet Cone Reducer Ecc Reducer Elbolet ane Swage BBE SCH 160 BLE/TSE XXS TLE/BSE XXS TBE XXS	F2	
	2" 24 ¹¹			

	1/2''- 1-1/2'' Je		F1	
REFINING & MARKETING		UNIT	REV 0	
		DIESEL HDS		
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ITEM	SIZE	DESCRIPTION	NT S	REV
	1/2"- 1-1/2"	Ecc Swage BBE SCH 160 BLE/TSE XXS TLE/BSE XXS TBE XXS 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'' Sord		
EQUIP. INSTR.		Vessel & Equipment Instrument Conn's Table I		

CONNECTIONS				
FLANGES	3/4 ¹¹ - 1-1/2 ¹¹ 2" Only 2\11- J" 4" Only 6 ¹¹ Only 8 ¹¹ 12 ¹¹ - 14"- 24" 3/4 ¹¹ - 24 ¹¹ 2 ¹¹ 16 ¹¹	900# 9-Cr RTJ ASTM A182 Gr F9 ^{SW} (SCH 160 BORE) WN (SCH 160 BORE) WN (XS BORE) WN (SCH 120 BORE) WN (XS BORE) WN (SCH 100 BORE) WN (SCH 80 BORE) BLIND 900# 9-Cr RTJ ASTM A182 Gr F9 w/11 Scrd Taps SLIP-ON		
ORIFICE FLANGES				
GASKETS	3/4 ¹¹ - 24 ¹¹ 2"- 16"	410 SS Oval Ring per ANSI B16.20 MAX BHN 170, Parker Style P-950 or For 900# For 900# for Orifice Flanges		
BOLTS	3/4"- 24 ¹¹ 2 ¹¹ 16 ¹¹	Stud Bolts ASTM A193 Gr B16 w/2 Hvy Nuts ASTM A194 Gr 4 For 900# For 900# for Orifice Flanges		
REFINING & MARKETING			UNIT DIESEL HOS	REV 0

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