

SERVICE: Recycle Gas, Liquid Feed, Treat Gas, Make-up
Water

CLASS:
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RATING: CLASS 900

FACING: RTJ

MATERIAL: 1-1/4 CR - 1/2 MO

CORROSION ALLOWANCE: 0.125 Inch
PRESSURE LIMIT: 1'000 PSIG
TEMPERATURE LIMIT: -20°F - 680°F

ITEM	SIZE	DESCRIPTION
VALVES	1. Gate, Globe and Check Stellited 12 Cr Trim with Graphitic Packing (non Asbestos) unless otherwise specified.	
	2. Gate, Globe and Check valves 3 inch and larger shall be forged alloy with pressure seal bonnet design.	
	3. Orbit valves shall have Manufacturer's standard trim and packing.	
	4. ALL piping welds over 1/2" thickness shall be stress relieved.	

--GATE	I 3/4"- 1-1/2"	1800# 1-1/4 Cr SW VOGT #SW-12321-F11	
	1/2"- 1-1/2"	800# 1-1/4 Cr VOGT #TSW-12321-	V1
	3/4"- 2"	F111 SW x Scrd	v2/ 2
		1500 1-1/4 Cr RTJ VELAN #R-7-06-4P-05-	
	3 1/2" 8"	900# 1-1/4 Cr RTJ VELAN #R-7-06-4P-05-MS	1
10 1/2" - 18"		900# 1-1/4 Cr RTJ VELAN #R-7-06-4P-05-	
--GLOBE	I 3/4"- 1-1/2"	MS - Gear Operated	V11 3
		/1690 1-1/4 Cr SW VELAN #W-7-07-6Y-05-MSI	
	6 1/2" Only	- Y-Pattern	
	2 1/2" 8"	1900# 1-1/4 Cr RTJ VELAN #R-7-07-4P-05-MS	
--CHECK	I 3/4" 2"	/1500 1-1/4 Cr SW EDWARDS #838Y/	2

811 900# 1-1/4 Cr RTJ VELAN #R-7-03-4P-05-MS 2

V1 - Use for vents, drains and instrument connections where a threaded outlet is required.
V2 - Use against flanged equipment nozzles.

REFINING & MARKETING

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ITEM	SIZE	DESCRIPTION	NTS I	RE V
PIPE NIPPLES FITTINGS! <hr/>	3/4 ¹¹ - 1-1/2 ¹¹ 2 ¹¹ - Only J" - 8" 10 ¹¹ - 24 ¹¹ 1/2 ¹¹ - 1-1/2 ¹¹ 1/2 ¹¹ - 1-1/2 ¹¹ <hr/> 2 ¹¹ 12 ¹¹ 1/2 ¹¹ 1-1/2 ¹¹ !C	Smls 1-1/4 Cr ASTM A335 Gr P11 Sch 160 Sch 160 XS Sch 80 XXS Smls 1-1/4 Cr ASTM A335 Gr P11 TBE 3 " Long TBE 6 ¹¹ Long <hr/> TOE 3 ¹¹ Long TOE 6 ¹¹ Long PBE 3 ¹¹ Long PBE 6 ¹¹ Long 16000# 1-1/4 Cr SW ASTM A182 Gr F11 Cap goo Elbow 45° Elbow Tee Socket Elbolet Coupling <hr/> Union Cap, Scrd Thredolet Elbolet, Scrd Plug, Round Solid, Scrd 1-1/4 Cr Buttwelding ASTM A234 Gr WP11 Wall thickness to match pipe Cap goo LR Elbow 45° Elbow Tee Weldolet, ASTM A182 Gr F11 Cone Reducer Ecc Reducer Elbolet, ASTM A182 Gr F11 one Swage BBE SCH 160 BLE/TSE XXS TLE/BSE XXS TBE XXS	F2 F11	1 1

REFINING & MARKETING		UNIT	D I E S	REV 1
SERVICE: Recycle Gas, Liquid Feed, Treat Gas, Make-up Water			CLASS: FA PAGE 3 OF 3	
ITEM	SIZE	DESCRIPTION	NTS	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 Conn.ep:ti.ons		
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'' Card		
EQUIP. INSTR. CONNECTIONS		Vessel & Exchanger Instrument Conn's Table I		
FLANGES ORIFICE FLANGES	3/4"- 1-1/2" 2" Only 3"- 8" 10" 24" 3/4" 24" 2"- 12"	900# 1-1/4 Cr RTJ ASTM A182 Gr F11 SW (Sch 160 Bore) ^{WN} (Sch 160 Bore) WN (XS Bore) WN (Sch 80 Bore) Blind 900# 1-1/4 Cr RTJ ASTM A182 Gr F11 w/1/2'' Scrd Taps Slip-on		
GASKETS	3/4" 24" 2"- 12"	5 Cr - 1/2 Mo Oval Ring per ANSI B16.20 Parker Style P-950 or equal. For 900# For 900# for Orifice Flanges		

BOLTS	3/4"- 24" " " 2 - 12	Stud Bolts ASTM A193 Gr B7 w/2 Hvy Hex Nuts ASTM A194 Gr 2H For 900# For 900# for Orifice Flanges		
REFINING & MARKETING			UNIT DIESEL HOS	REV 0

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