



DIAGRAM TAG NUMBER	SIZE	ITEM DESCRIPTION	PRESSURE RATING (PSIG)	TEMPERATURE RATING
V-1, V-2, V-17	1"	OASIS BALL VALVE, 316 SS, LOW TEMP, BV-708-4NGLDUN-1000	6,000	-49° TO 100°F
V-3, V-4, V-5, V-6, V-7, V-24, V-66, V-67, V-90	2"	BALL VALVE, LOW TEMP, WORCESTER 44446RY SOCKET WELD R.P.	1,480	-40° TO 200°F
V-8, V-10, V-71	1"	BALL VALVE	3,000	-40° TO 200°F
V-68, V-69, V-70	1/2"	BALL VALVE	3,000	-40° TO 200°F
V-14, V-15	1"	OASIS CHECK VALVE, CV308-6NXP	6,000	-40° TO 200°F
V-9, V-13, V-19, V-50, V-53, V-54, V-56, V-58, V-59, V-60, V-61, V-62, V-72, V-75, V-77, V-78, V-79, V-92	1/2"	SMAGLOK NEEDLE VALVE, P/N SS-12NBR8	6,000	-65° TO 200°F
V-76	1"	PISTON CHECK VALVE (DHW 8001B) 1.975 PSIG @ 100°F	-	-
V-80	3/4"	BALL VALVE	2,000	-40° TO 200°F
V-81	2"	BALL VALVE	2,000	-40° TO 200°F
PCV-104	2"	CVS CONTROL VALVE (SET PRESSURE 1700 PSIG), PILOT REGULATOR CONTROLLER	4,500	-40° TO 200°F
PCV-108	2"	CVS CONTROL VALVE SET AT 750 PSIG	3,750	-40° TO 200°F
PCV-109, PCV-110	1"	MOONEY FLOWGRID, CL600 FLANGES ON FG-11 NPT	1,480	-
PCV-116	1/2"	FISHER 1301 REGULATOR SET AT 200 PSIG	6,000	-40° TO 200°F
PCV-117	1"	FISHER 627-453 REGULATOR, 1/4" TRIM, SET AT 80 PSIG	1,000	-40° TO 180°F
PCV-120	1/2"	FISHER FS-67GR-3625G REGULATOR SET AT 30 PSIG	250	-20° TO 179°F
PI-102, PI-105, PI-108, PI-121, PI-122, PI-126	1/2"	GAUGE TECH 233.53 GAUGE, LM, 0-5000 PSIG, SILCON FILL, 4" FACE	5,000	-40° TO 150°F
PI-111, PI-112, PI-119, PI-124, PI-125, PI-128	1/2"	GAUGE TECH 233.53 GAUGE, LM, 0-600 PSIG, SILCON FILL, 4" FACE	1,400	-40° TO 158°F
PS-113	-	CVS 7970 HIGH-LOW PRESSURE PILOT SET AT 40 PSIG	10,000	-40° TO 240°F
PSV-106, PSV-107	2"x3"	TAYLOR 2" 900# X 3" 300# H ORIF., PEEL SEAT, BUVA SEALS SET PRESSURE 2,000 PSIG, CAP.: 32,544 SCFM, 93S-1H4124201830-00	2,250	-20° TO 200°F
PSV-108, PSV-109	1-1/2"	TAYLOR 1-1/2" MNPT X 2" FNPT, H ORIF., TEFLON SEAT, BUVA SEALS SET PRESSURE 900 PSIG, CAP.: 14,763 SCFM, 825H857131B-43-60-0	1,450	-20° TO 200°F
PSV-115, PSV-116	1-1/2"	TAYLOR 1-1/2" MNPT X 2" FNPT, H ORIF., TEFLON SEAT, BUVA SEALS SET PRESSURE 300 PSIG, CAP.: 5,065 SCFM, 825H857131B-43-60-0	1,450	-20° TO 200°F
PSV-118, PSV-130	1"x1"	1" FNPT X 1" MNPT, E-ORIFICE, SET PRESSURE 125 PSIG, CAP.: 603 SCFM	125	-20° TO 200°F
PSV-129	1/2"	1/2" FNPT X 1" MNPT, C-ORIFICE, SET PRESSURE 250 PSIG, CAP.: 336 SCFM	250	-20° TO 200°F
TI-103, TI-105, TI-108, TI-127	-	GAUGE TECH TEMPERATURE GAUGE, -40 TO 70 RANGE WITH GAUGETECH 316 SS THERMOWELL	7,000	-40° TO 158°F
TS-114	-	KIMRAY HT12 TEMPERATURE SWITCH	500	-40° TO 221°F
UV-119	-	3-WAY AMOT 4057 (PANEL MOUNTED)	125	-40° TO 248°F
UV-120	-	3-WAY AMOT SWITCH	125	-40° TO 248°F
S-1	6"x36"	FUEL GAS SCRUBBER	255 @ 100°F	-
C-1, C-2	1"	DIXON CONNECTORS BONGR8-S, FNPT	5,000	-40° TO 248°F

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SHUTDOWN SETPOINTS: INITIAL BMS SETPOINTS: DESIGN PRESS.: 4500 PSIG
 PS-113: 40 PSIG BURNER ON TEMP.: 158°F HEATER COIL SPECIFICATIONS: DESIGN TEMP. CRN #:
 TS-114: 32°F ALARM TEMP.: 194°F COIL 1: 5280 PSIG 400°F/-18°F
 COIL 2: 3170 PSIG 400°F/-18°F
 COIL 3: 3170 PSIG 400°F/-18°F

SYSTEM DESIGN SPECIFICATIONS: LINE HEATER SPECIFICATIONS: HEAT CAPACITY: 500K BTU/HR
 DESIGN PRESS.: (UPSTREAM OF PCV-104): 2100 PSIG CRN: F3096.231
 DESIGN TEMP.: -20°F TO 140°F YRN: BUILT:
 DESIGN FLOW RATE: 800 SCFM DESIGN CODE: B31.3/CSA B51 SERIAL NO.:

NOTES:
 1. COIL #1 IS 1" NPT, 2500#, SA-106-B, 0" C.A.
 2. COILS #2 AND #3 ARE 2" NPT, SCH.80, SA-106-B, 0" C.A.
 3. HIGH PRESSURE PIPING IS 2" NPT, SCH.160, A333 GRADE 6, WELDED.
 4. LOW PRESSURE PIPING IS SCH.80, A333 GRADE 6, WELDED, DOWNSTREAM OF PCV-108 TO PCV-109 & 110. WELDED 2" SCH.80
 5. 1/2" TUBING IS 0.065" W.T. SS SEAMLESS TUBING, FULLY ANNEALED, A213, TYPE 316.
 6. 3/8" TUBING TO ALL PRESSURE GAUGES ON PANEL ARE TO BE 0.049" W.T. SS SEAMLESS TUBING, FULLY ANNEALED, A213, TYPE 316.
 7. ALL FLANGES TO PCV-104 ARE SA105N 2500# ANSI RF.
 8. FLANGES FOR COIL #2 AND #3 ARE SA105N-1500# ANSI RF.
 9. AMOT SWITCH UV-119 IS CONNECTED TO PCV-104 AND PCV-108 CLOSE WHEN PS-113 OR TS-114 GOES TRUE.
 10. AMOT SWITCH UV-120 IS CONNECTED TO PCV-104 AND PCV-108 CLOSE WHEN PS-113 OR TS-114 GOES TRUE.
 11. PSV-106 & 107 MINIMUM COMBINED CAPACITY IS 56,000 SCFM.
 12. LINE DRIVER PACKAGE TO BE SUPPLIED BY OWNER.
 13. PSV-106 & 107 MINIMUM COMBINED CAPACITY IS 56,000 SCFM.
 14. MICROPROTON METER - SUPPLIED BY OWNER.
 15. PSV VENT STACKS TO BE VERTICAL AND HAVE RAIN GAPS.
 16. PSV-108 & 109 MINIMUM COMBINED CAPACITY IS 20,000 SCFM.
 17. PSV-108 & 109 MINIMUM COMBINED CAPACITY IS 8,800 SCFM.
 18. PSV-115 & 116 MINIMUM COMBINED CAPACITY IS 8,800 SCFM.

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 TGT / MES
 PRS UNIT 1200-M APRIL 2024
 PIPING AND INSTRUMENTATION DIAGRAM
 ENDENAVOUR PROJECTS LTD. TGT/MES-1200M-PID-01