DSI and Vacuum Cooling System Job G5039

TAG#	Qty	Description1	Manufacturer	Part Number	Description
		MAIN COMPONENTS			
01	1	Air flow Control valve (0-50 SCFM)	Pneutrol	N30SSK	1/2" Needle valve. NPT connections, SS
		, , , , , , , , , , , , , , , , , , ,			Moyno pump, 500 series, model 33204, Viking
					production # 3910000208, 316 SS housing, chrome
02	2	Moyno Product Pump (2-4 gpm)	Moyno	500-33204	plated 316 SS rotor, viton stator and elastomers
					Motor, 1/2 hp, 208V, 1750 rpm, wash down, with feet,
03	2	Motor	Baldor	WDM3538	non-Cface
				PN #BN516004036004	ITT shell and tube HX, 1.25" npt all ports, 4" dia, 36"
04	1	Condenser, shell and tube	ITT Standard	Mod #SSCF04036	long, SS tubes, SS shell
					SIHI Vacuum pump, buna elastomers, standard seal,
					stainless impeller, integral TEFC motor, 3/4-
05	1	Vacuum pump, liquid ring	SIHI	LEMR15-AZ-AAA-0B-0AT	208/230/460-3500 with feet
06	1	CFF Ball Valve (vacuum pump water)	CFF	CFFSS11S05	1/2" 3-pc, socket weld ball valve, SS
07	1	Vacuum chamber	TBA		Per drawing G5039A
80	1	A204 Hydro-Heater with positioner	Hydro Thermal	A204ALU	
09	1	Back Pressure Regulating Valve	Sharpe	40276	1.5" Globe valve, threaded ends, manual, SS
10	1	Ball Valve, vacuum break	CFF	CFFSS11S05	1/2" 3-pc, socket weld ball valve, SS
		<u>Valves</u>			
					SS pressure relief valve, rated for 8 gpm @25%
11	11	Relief Valve	Kunkle	171S-C01-MG0150	overpressure set at 150 psig, SS
					guage, liquid level, SS and glass, composite handles,
12	1	sight guage			no checks, 1/2" npt, 12" long, drain valve
13	1	Mag Flowmeter	Burkert	426498R - Insertion, 428742 - Body	
14	3	RTD	Pyromation	R1T185L483-001-00-8HN63 - RTD	
					Process pressure gauge, acrylic cover, polypropylene
15	1	pressure gauges	Miljoco	P4520L-06	case, 1/4" npt bottom connection, 0-160 psi range
					Process pressure gauge, acrylic cover, polypropylene
16	1	pressure gauges	Miljoco	P4520L-05	case, 1/4" npt bottom connection, 0-100 psi range
l			.		Process pressure gauge, acrylic cover, polypropylene
17	2	pressure gauges	Miljoco	P4520L-001	case, 1/4" npt bottom connection, 30 " Hg - 0 psi range
					Non-sanitary pressure transmitter, NPT connection, no
4.0		D	15.4	DM0050 H00005 E40000	display, scalable 4-20 mA output, -14 to 43.5 psig range
18	1	Pressure transducer	IFM	PM2059, U30035, E10832	with 6-meter cable and instrument fitting.
		INSTRUMENTS			D: 14 - 14
					Bi-Metal thermometer, stainless steel case, 316 SS 1/2"
	_			D00004.04.0	npt connection, 2.5" stem length, 50-500°F range,
19	2	Temperature Gauges	Miljoco	B3099A-94-2	adjustable face
					Bi-Metal thermometer, stainless steel case, 316 SS 1/2"
	•		N 4712	D00004 54 0	npt connection, 2.5" stem length, 0-250°F range,
20	3	Temperature Gauges	Miljoco	B3099A-54-2	adjustable face
	^	VED	A.II	001 10 01404	VFD, Allen Bradley powerflex 4, 1/2 hp, built in control
21	2	VFD	Allen Bradley	22b-b2p3N104	interface, 200-240Volt 3ph, NEMA 1
00	2	VFD	Allen Bradley	22-him-c2	HIM module, NEMA 4, with connector for above drive
22	2	Coolingwater Isolation valves	CFF	CFFSS11S12	1.25" 3-pc, socket weld ball valve, SS

Steve Cook 5/20/2016 11:25 AM

DSI and Vacuum Cooling System Job G5039

23	2	Steam Isolation Valves	CFF	CFFSS11S05	1/2" 3-pc, socket weld ball valve, SS
					Sanitary pressure transmitter, 1.5" TC connection, no
					display, scalable 4-20 mA output, -7 to 145 psig range
24	1	Pressure transducer	IFM	PM2054, E33001, E18032	with 6-meter cable and instrument fitting.
					Non-sanitary pressure transmitter, NPT connection, no
					display, scalable 4-20 mA output, -7 to 145 psig range
25	1	Pressure transducer	IFM	PM2054, U30035, E18032	with 6-meter cable and instrument fitting.
26	2	Check valves	Check All	#SCV-075-SS-V-1/2-O	check valves, 3/4", 1/2 psi cracking, non-food viton
27	1	Orifice	Alfa	A80MPU-3/4-316L	orifice, 3/32" hole, 3/4" Tri-Clamp, Viton
28	2	PID controllers	Watlow	96A0-FFAM-00RG	Watlow PID loop controller with special set up
29	1	I/P transducer	ControlAir	EL0015	I/P TRANSDUCER CONTROL AIRE 4-20MA 3-15PSI
	2	Coupling for pumps		LO95 5/8"x5/8" Complete	Coupling
	1	Frame	FAB		
	1	Lot Misc. pipe fittings and tubing			
	4	siphon			siphon, 1/4" npt, SS, 360 degree turn
		<u>CONTROLS</u>			
		DAQ System			
	1	Laptop	Dell		Dell laptop
	1	DAQ System components	Omega		DAQ components per quote
		<u>Fab Items</u>			
					Coupling guard for Moyno pumps, not designed, sketch
	2	Coupling Guard	FAB		and fab after assembled
					Shlef for Laptop to sit adjacent to control panel, 40" off
	1	Laptop shelf	FAB		floor, S/S; not designed
		<u>Tank Parts</u>			
	2	cap			cap, 16" schd 10, 316L SS
					pipe, 16" schd 10, 316L SS, cut flat and square to 20"
	1	pipe 16"			long +- 1/4"
	8	shoulder bolt			
	2	flange			
	1	gasket			
				TE10B102(clip on)	
				option if needed is	
	1	Spray ball	Toftjorg/ALFA	TE10B202(weld on)	Spray ball, Toftjorg, midget, clip on
					Dip Tube with spray device above welded on, per
	1	Dip tube	FAB		sketch

Steve Cook 5/20/2016 11:25 AM