



PSV INFORMATION
 PSV 110
 1 1/2" x 1"
 300 PSIG
 FULL FLOW
 TAYLOR
 "E" ORIFICE

PSV INFORMATION
 PSV 100
 1 1/2" x 1"
 250 PSIG
 THERMAL RELIEF
 TAYLOR
 "E" ORIFICE

- UNIT EQUIPMENT**
- A-700 ENGINE JACKET WATER COOLER; CSC MODEL L36, DWP 14 PSIG @ 300F
 - A-710 AUXILIARY GLYCOL COOLER; CSC MODEL L36, DWP 14 PSIG @ 300F
 - A-720 AFTER COOLER; CSC MODEL L36, DWP 845 PSIG @ -20/200F
 - C-300 COMPRESSOR; HOWDEN XRV 163/163
 - CP CONTROL PANEL; MURPHY MODC CLASS 1, DIMENSION 2, TDU
 - HR-800 OIL COOLER; FLATPLATE 10020-24 PLATE EXCHANGER, DWP 440 PSIG @ 300F
 - F-800 OIL FILTER; PARKER MODEL 800M-21000GSE1111, 10 MICRON, DWP 1000 PSIG @ -40/220F
 - H-800 UNIT HEATER; CAT/DINE 12,000 BTU/HR 12V
 - M-400 ENGINE; CAT 3304 NA 85 HP @ 1800 RPM
 - T-400 LHM GLYCOL EXPANSION TANK; CAPACITY 5 US GAL.
 - T-410 ENGINE OIL DRY TANK; CAPACITY 5 US GAL.
 - T-420 AUXILIARY GLYCOL EXPANSION TANK; CAPACITY 5 US GAL.
 - V-100 SUCTION SCRUBBER; 18" O.D. x 8'-0" 5/8" DWP 250 PSIG @ DWT -20/200F, 1/8" CA
 - V-110 OIL SEPARATOR; 18" O.D. x 7'-0" 5/8" DWP 350 PSIG @ DWT -20/200F, 1/8" CA

- NOTES**
- 1) TURNING TO BE 3/4" O.D. 304 SST & FITTINGS TO BE MINIMUM CAD PLATED SINGLE LOCK FITS. 3/4" S.S. FERRULES.
 - 2) GLOUCE PIPING AND OTHER PIPING TO BE WELDED WHERE POSSIBLE.
OIL PIPING TO BE PROXED AFTER COALESCING FILTERS.
 - 3) ALBERTA QUALITY CONTROL PROGRAM REGISTERED - AQP-1332.
 - 4) PIPING AND FITTINGS: STARTED SPECIFICATION
LINE CLASSES:
OIL SYSTEM & DRY PROCESS 300F ANG RATING - BSP.
RELIEF HEADERS 150F ANG RATING - ASP.
SUCTION PROCESS 150F ANG RATING - ASP.
GLYCOL UTILITY - LG
INSTRUMENT AIR GAS UTILITY - IAG
ALL TURNING AS PER LINE CLASS.
 - 5) ALL TEMPERATURE INDICATORS 3/4" NPT.
 - 6)

LEGEND

[Symbol] BALL VALVE	[Symbol] SOLENOID ACTUATED 3-WAY VALVE	[Symbol] PROCESS PIPING	[Symbol] CONTROL VALVE WITH DIAPHRAGM ACTUATOR
[Symbol] GATE VALVE	[Symbol] SAFETY VALVE	[Symbol] UTILITY PIPING	[Symbol] CONTROL VALVE WITH PISTON ACTUATOR
[Symbol] GLOBE VALVE	[Symbol] REDUCER	[Symbol] CAPILLARY TUBING	[Symbol] INSTRUMENT GAS
[Symbol] NEEDLE VALVE	[Symbol] CHECK VALVE	[Symbol] PNEUMATIC TUBING	[Symbol] ELECTRIC SIGNAL
[Symbol] BUTTERFLY VALVE	[Symbol] UNION	[Symbol] OIL LINE	[Symbol] INSTRUMENT FLEXIBLE HOSE
[Symbol] ANGLE VALVE	[Symbol] PRESSURE REDUCATOR	[Symbol] STRAINER	

[Symbol] LOCALLY MOUNTED INSTRUMENT	[Symbol] LALL LEVEL ALARM LOW	[Symbol] PI PRESSURE INDICATOR	[Symbol] PT PRESSURE TRANSMITTER	[Symbol] ST SPEED TRANSMITTER
[Symbol] LOCAL PANEL MOUNTED INSTRUMENT	[Symbol] LC LEVEL CONTROLLER	[Symbol] DPI DIFFERENTIAL PRESSURE INDICATOR	[Symbol] PV PRESSURE VALVE	[Symbol] TC TEMPERATURE CONTROLLER
[Symbol] BDV BLOWDOWN VALVE	[Symbol] LG LEVEL GAUGE	[Symbol] PSDH PRESSURE DIFFERENTIAL SWITCH HIGH	[Symbol] PY PRESSURE RELAY	[Symbol] TCV TEMPERATURE CONTROL VALVE
[Symbol] BDY BLOWDOWN VALVE	[Symbol] LSH LEVEL SWITCH HIGH	[Symbol] DPCV DIFFERENTIAL PRESS. CONTROL VALVE	[Symbol] S STARTER	[Symbol] TSH TEMPERATURE SWITCH HIGH
[Symbol] CV CONTROL VALVE	[Symbol] LSL LEVEL SWITCH LOW	[Symbol] PRV PRESSURE REGULATOR VALVE	[Symbol] SC SPEED CONTROLLER	[Symbol] TI TEMPERATURE INDICATOR
[Symbol] F LUBRICATOR	[Symbol] OVS OVERSPEED SENSOR	[Symbol] PSL PRESSURE SWITCH LOW	[Symbol] SG SIGHT GLASS	[Symbol] VT VIBRATION TRANSMITTER
[Symbol] FI FLOW INDICATOR	[Symbol] FB PUSH BUTTON	[Symbol] PSH PRESSURE SWITCH HIGH	[Symbol] SI SPEED INDICATOR	[Symbol] ZI TRANSDUCER INDICATOR
[Symbol] LAHH ALARM HIGH HIGH	[Symbol] PCV PRESSURE CONTROL VALVE	[Symbol] PSV PRESSURE SAFETY VALVE	[Symbol] SOV SHUT OFF VALVE	[Symbol] ZT TRANSDUCER TRANSMITTER
[Symbol] PANEL INSTRUMENT	[Symbol] DISTRIBUTED CONTROL SYSTEM INSTRUMENT	[Symbol] CUSTOMER CONNECTION	[Symbol] LOCAL CONTROL PANEL	[Symbol] INTERLOCK

CUSTOMER CONNECTIONS

P&ID CONN.	REF. #	SIZE	TYPE	RATING	DESCRIPTION
1	N1	4"	RFWN	150#	INLET
2	N2	1"	NPT	3000#	HYDROCARBON LIQUID DRAIN
3	N3	3"	RFWN	300#	OUTLET
4	N4	4"			ENGINE EXHAUST
5	N5	2"	PIPE		STARTER EXHAUST C/W BRODSCREEN
6	N6	12V DC	3/4" CABLE		HEATER, 12 VDC STARTER
7	N7	1"	NPT	3000#	ENGINE OIL DRAIN
8A/B/C	N8A/B/C	1"	PIPE	3000#	FLARE C/W BRODSCREEN
9	N9	1"	NPT	3000#	COMPRESSOR OIL FILL/DRAIN
12	N12	18"	RFWN	300#	OIL COALESCING FILTER ACCESS

REFERENCE DRAWINGS			REVISIONS										SHIPPING WEIGHT		
DWG. NO.	DESCRIPTION	DWG. NO.	NO.	DATE	BY	AP'D.	DESCRIPTION	ISSUE	NO.	DATE	BY	AP'D.	DESCRIPTION	ISSUE	
509-1B	P&ID - UTILITY		0	05/07/15	BJB		FOR CONSTRUCTION								
509-2A	GENERAL ARRANGEMENT		1	06/03/24	BJB		AS-BUILT								
SGC0509-2B	ELEVATIONS														

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REFRIGERATION SERVICES LTD.

DRAWN: [] DATE: 05/07/15
 CHECKED: [] DATE: []
 ENGR. APPL. DATE: []
 PROD. APPL. DATE: []
 JOB NO. []

CUSTOMER/PROJECT/LOCATION: STANDARD 95HP PACKAGE XRV 163/193 & CAT G3304
 TITLE: NATURAL GAS COMPRESSOR PACKAGE HOWDEN XRV 163/193 & CAT G3304 P. & I.D. PROCESS
 SCALE: [] DRAWING NO. [] REV. []