



LEGEND

□ PLC BASED INSTRUMENT ○ LOCAL, PANEL MOUNTED INSTRUMENT
○ LOCAL, DIRECT MOUNTED INSTRUMENT ○ REMOTE MOUNTED INSTRUMENT

PROCESS EQUIPMENT TRIP FUNCTION ◇

LINE CLASSES

1A3 JMSI 150# RATED SYSTEM, A312 Q-304 STAINLESS STEEL, MIN. TEMP. -104°C
3A3 JMSI 300# RATED SYSTEM, A312 Q-304 STAINLESS STEEL, MIN. TEMP. -104°C
1A1 JMSI 150# RATED SYSTEM, A106 Q-28, C.S., MIN. TEMP. -10°C
3A1 JMSI 300# RATED SYSTEM, A106 Q-28, C.S., MIN. TEMP. -10°C

GENERAL NOTES

VEN/ TESTING DRAWNS TO BE PLACED IN APPROPRIATE POSITIONS BY OTHERS
V/P'S AND REMOTE OPEN/CLOSE FACILITIES PROVIDED FOR ALL CONTROL VALVES
RUNNING AND FAULT INDICATION PROVIDED FOR ALL MOTORS
ALL PSV AND TSV OUTLETS TO CONNECT INTO TOP OF HEADER

NOTES

1. EXHAUSTING XV-2136 INCREASES COMPRESSOR CAPACITY TO 80%
DEEXHAUSTING XV-2136 DECREASES COMPRESSOR CAPACITY TO 100%
2. TEMPORARY N2 CONNECTION FOR PURGING
3. NOT USED
4. NOT USED
5. BYPASS VALVE HV2135 TO BE LOCATED AS CLOSE AS POSSIBLE TO SUCTION LINE.

ITEM No	SERVICE	INNER O.D. X T.W. TO VAN LENGTH (mm)	DESIGN PRESSURE (bar g)	DESIGN TEMPERATURE (°C)	INSULATION (mm)
V-1510A	ECONOMISER	800 X 2400	10	-104/+110	C150
V-1504A	1st ST. SUCTION PULSATION DAMPER	680 X 1730	10	-104/+147	C150
V-1505A	1st ST. DISCHARGE PULSATION DAMPER	508 X 1376	10	-104/+130	PP50
V-1506A	2nd ST. SUCTION PULSATION DAMPER	508 X 1316	10	-104/+130	PP50
V-1507A	2nd ST. DISCHARGE PULSATION DAMPER	508 X 1316	18	-25/+150	PP50
V-1508A	3rd ST. SUCTION PULSATION DAMPER	408 X 847	18	-25/+150	PP50
V-1509A	3rd ST. DISCHARGE PULSATION DAMPER	487.2 X 1022	27	-104/+150	PP50

ITEM No	SERVICE	DUTY (MW)	SHELL SIZE DES. PRESS. / DESIGN TEMP. (bar g / °C)	TUBE SIZE DES. PRESS. / DESIGN TEMP. (bar g / °C)	INSULATION (mm)
E-1505A	INTERSTAGE COOLER	123	20 / +5/+100	30 / +3/+185	N

ITEM No	SERVICE	RATED CAPACITY (kg/hr)	OFF. PRESSURE RELIEF (bar)	RATED CAPACITY (kg/hr)	OFF. PRESSURE RELIEF (bar)
B-1501A	B.O.G. COMPRESSOR	1763	24.3	2432	23.9

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPR.
08	22/12/16	DRAIN VALVE ADDED	MHS	SMM	IS
07		AS BUILT (CR-088)	JS		
06	12/09/08	VALVES IV-2063 TO IV-2066 MODIFIED (CR-069)	JS	JM	MH
05	08/08/08	CLIENT COMMENTS ADDED & LINE NUMBERING CHANGED (CR-064)	LE	LUC	AGS
04	27/06/08	APPROVED FOR CONSTRUCTION (CR-038 & CR-041)	JS	LUC	AGS
03	14/03/08	APPROVED FOR CONSTRUCTION (CR-025 AND CR-032)	JS	LUC	MH
02	20/12/07	UPDATED TO CLIENTS COMMENTS (CR-015)	JS	AGS	AGS
01	19/10/07	POST DESIGN REVIEW / HAZOP (CR-002)	JS	LUC	MH
00	20/07/07	FOR DESIGN REVIEW / HAZOP	JS	LC	AJS

CLIENT: **ENGRO** ENGRO VOPAK TERMINAL LIMITED

PROJECT: **ETHYLENE STORAGE AND HANDLING FACILITY KARACHI, PAKISTAN**

Excellent Engineering Solutions

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WEIR LGE PROCESS

TITLE: **P&I Diagram BOIL-OFF GAS COMPRESSOR**

DRAWING No.	REV.	NEXT SHEET	SCALE	SIZE
07006-PD-10-002-01	08	02	NTS	A1

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APPROVED
By Ismail Sultan at 6:34 pm, Jan 11, 2017

BM-1501A
BOIL-OFF GAS
COMPRESSOR MOTOR

V-1504A
1ST STAGE SUCTION
PULSATION DAMPENER

V-1505A
1ST STAGE DISCHARGE
PULSATION DAMPENER

B-1501A
BOIL-OFF GAS
COMPRESSOR

V-1510A
ECONOMISER

V-1506A
2ND STAGE SUCTION
PULSATION DAMPENER

V-1507A
2ND STAGE DISCHARGE
PULSATION DAMPENER

E-1505A
INTERSTAGE
COOLER

V-1508A
3RD STAGE SUCTION
PULSATION DAMPENER

V-1509A
3RD STAGE DISCHARGE
PULSATION DAMPENER

1 2 3 4 5 6 7 8 9 10 11 CAD