REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Jan.31.'25	R.Y	VIJAY
2	REVISED	Apr.11.'25	R.Y	VIJAY
3	REVISED	Jul.18.'25	R.Y	VIJAY
4	REVISED	Aug.26.'25	R.Y	VIJAY

VALVE

- GATE VALVE NORMAL OPEN
- GATE VALVE NORMAL CLOSE
- GLOBE VALVE NORMAL OPEN
- GLOBE VALVE NORMAL CLOSE
- BALL VALVE NORMAL OPEN
- BALL VALVE NORMAL CLOSE
- NEEDLE VALVE
- CHECK VALVE
- BUTTERFLY VALVE
- ANGLE VALVE
- 3-WAY VALVE
- 2 VALVE MANIFOLD
- 5 VALVE MANIFOLD

CONTROL VALVE

- DIAPHRAGM,SPRING OPPOSED
- CONTROL VALVE WITH POSITIONER
- SET @ barG PCV — PRESSURE REDUCING (BACK PRESSURE) VALVE (SELF-CONTAINED)
- SOLENOID VALVE
- ON / OFF VALVE
- HAND ACTUATOR
- SET @ barG X"YW" PSV — PRESSURE RELIEF VALVE
  X" W Y" INDICATES:
  - X" IS THE INLET SIZE OF THE SAFETY VALVE
  - W IS THE ORIFICE DESIGNATION
  - Y" THE OUTLET SIZE
  THIS APPLIES TO ALL SAFETY VALVES
- AIR SET
- M — MOTOR OPERATED ACTUATOR
- S — MANUAL AND REMOTE RESET ON-OFF SOLENOID ACTUATOR
- SET @ barG PCV — PRESSURE REDUCING (BACK PRESSURE) VALVE WITH EXTERNAL PRESSURE TAP
- CONTROL VALVE WITH ACTUATOR AND HANDWHEEL

INLINE INSTRUMENT

- ORIFICE
- FIF — ROTAMETER
- VENTURI
- SIPHON
- SIGHT GLASS

LINE SERVICE SYMBOL

TUB	TUBING
ATM	ATMOSPHERE
FO	FAIL OPEN
FC	FAIL CLOSED
FL	FAIL LOCKED (LAST POSITION)
CSO	CAR SEAL OPEN
CSC	CAR SEAL CLOSE
** **	PIPING SPEC BREAK
FFW	FIELD FIT WELD

PIPING AND LINE

- PROCESS LINE
- INSULATION / HEAT TRACE (STEAM/ELECTRICAL)

INSTRUMENT LINE SYMBOLS

- PNEUMATIC SIGNAL LINE
- HYDRAULIC SIGNAL LINE
- TUBING
- ELECTRICAL SIGNAL LINE (HARD WIRED)
- SOFTWARE LINK
- CAPILLARY TUBING (FILLED SYSTEM)
- MECHANICAL LINK

PIPING SYMBOLS

- DRAIN SLOPE, MIN. 1/2" PER FOOT (1/24) (13mm PER 0.304m).
- FLANGE
- CONCENTRIC (OR GENERIC) REDUCER
- ECCENTRIC REDUCER
- BLIND FLANGE
- PIPE CAP (WELDED)
- PIPE CAP (SCREWED)
- PLUG
- BREATHER
- XXXX — OPEN DRAIN DESTINATION (SERVICE CODE)
- F — FURNISHED BY EETC / FURNISHED BY PURCHASER
- F — FURNISHED BY EETC / FURNISHED BY EETC
- Y-TYPE STRAINER
- T-TYPE STRAINER
- TEMPORARY STRAINER
- XXXX — CONNECTION NUMBER FOR INTERNAL CONNECTION
- T XX-XXX — CONNECTION NUMBER FOR CUSTOMER CONNECTION
- FLEXIBLE HOSE
- T — STEAM TRAP
- SPECTACLE BLIND (NORMAL OPEN)
- SPECTACLE BLIND (NORMAL CLOSE)
- F — FLAME ARRESTOR
- GROUND
- ATMOSPHERE GOOSE NECK VENT WITH BIRD SCREEN
- REVISION MARK

FUNCTIONAL SYMBOLS

- INSTRUMENT LOCATED IN FIELD
- GB — LOCAL GAUGE BOARD MOUNTED
- INSTRUMENT MOUNTED ON LOCAL PANEL
- LAMP
- SHARED DISPLAY INDICATOR, CONTROLLER OR OTHERDEVICE WITH OPERATOR ACCESS TO ADJUSTMENTS
- MMS — MACHINE MONITORING SYSTEM
- (ESD) — EMERGENCY SHUT-DOWN NNNN = SEQUENTIAL NUMBER
- (PLC) — MACHINERY, PACKAGE SUPPLIED BY VENDORS NNNN = INTERLOCK NUMBER RANGE: 01501 - 01599
- MCC — MOTOR CONTROL CENTER
- VSD — VARIABLE SPEED DRIVE
- JUNCTION BOX — JUNCTION BOX
- XXXX / XXXX — UTILITY CONNECTOR
- HIGH SELECTOR
- LOW SELECTOR

CONNECTOR

- DRAWING NUMBER (XX-YYYY) UNIT+PID SEQUENTIAL
- CONNECTOR NUMBER(###)
- DRAWING NUMBER (XX-YYYY) UNIT+PID SEQUENTIAL
- CONNECTOR NUMBER(###)

EQUIPMENT

- GAS FILTER
- OIL FILTER
- CARTRIDGE FILTER
- M — ELECTRIC MOTOR
- P — PNUEMATIC DRIVER (AIR DRIVEN)
- M — SCREW PUMP
- OIL COOLER

INSTRUMENT NUMBERING PHILOSOPHY

EACH INSTRUMENT HAS TO BE IDENTIFIED AS FOLLOWS:
YY-ZN(NNN)-XXnnn(SSS)
Where:

YY:	UNIT CODE (01)
Z:	IDENTIFIES THE TYPE OF MEASURED/INITIATING VARIABLE (F=FLOW; T=TEMPERATURE, ETC.).
N(NNN):	FUNCTIONAL INSTRUMENT CODE AS PER ISA-S5-1.
XX:	AREA/TRAIN NUMBER WITHIN THE UNIT (01)
nnn:	SEQUENTIAL NUMBER (001-999). INSTRUMENTS IN THE SAME LOOP WILL SHARE THE SAME SEQUENTIAL NUMBER.
(SSS):	MAX. 3 DIGITS FOR THE SUFFIX OF INSTRUMENT NUMBER IN ALPHABETICAL ORDER, A, B, C …, FOR USE IN CASE TWO OR MORE IDENTICAL INSTRUMENTS OR FUNCTIONS BELONG TO ONE SERIAL NUMBER FOR SAME SERVICE (WHERE NEEDED)

PIPING LINE IDENTIFICATION

LINES NUMBERING SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODE STRUCTURE:
L"-F-YY-PPPPnn-CCCC-A
Where:

L":	NOMINAL LINE SIZE (IN INCHES)
F:	FLUID CODE DESIGNATION
YY:	UNIT CODE
PPPP:	P&ID NUMBER
nn:	SEQUENTIAL NUMBER
CCCC:	PIPING CLASS IDENTIFICATION
A:	INSULATION TYPE

AUXLIARY EQUIPMENT NUMBERING PHILOSOPHY

AUXILIARY EQUIPMENTS SHALL BE NUMBERED AS FOLLOWS:

PACKTAG-AANN(S)

PACKTAG : 01-K-101
AA : MECHANICAL EQUIPMENT TYPE
NN : 2 DIGITS SERIAL NUIMBER
(S) : DUPLICATION SUFFIX

REFERENCE DRAWINGS ARE AS FOLLOWS :
1. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
2. P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101) : 23E033A001AAZCA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0003)
3. P&I FLOW SHEET FOR COMPRESSOR SEAL GAS (01-K-101) : 23E033A001AAZDA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0004)
4. P&I FLOW SHEET FOR MMS (01-K-101) : 23E033A001AAZHA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0005)
5. P&I FLOW SHEET FOR DRY GAS SEAL PANEL (01-K-101) : 23E033A001AAZJA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0006)
6. P&I FLOW SHEET FOR OIL CONSOLE (01-K-101) : 23E033A001AAZKA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0007)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) : 23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. PIPING AND INSTRUMENT DIAGRAM LEGEND SHEET 1~19 : 102CPP-00-00-49-DD-PID-0001~0019

NOTE:
1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT

Ceyhan Polipropilen Üretim A.S.

CEYHAN PDH-PP PROJECT

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:
CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:
- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.: 05011-CPP-01-00-4V-PID-01-K-101-0001 — CONTRACTOR/ EMPLOYER REV: 03

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE: P&ID FLOW SHEET (SYMBOL AND LEGEND)

CODE: DIA-0001 — VENDOR DOCUMENT No: 23E033A001AAZAA0YA0-CKYN — REV: 4

		DISTRIBUTION	SET	DISTRIBUTION	SET
APP'D BY	Mmm.dd.'yy	CUSTOMER	E	811-2	2C
APP'D BY VIJAY	Mmm.dd.'yy				
DSN'D BY D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY ANNAM	Mmm.dd.'yy				
DRW'N BY HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL — to maintain shipping promise. Once approved print must be returned by: Sep.09.'25

☐ FOR RECORD — Any requested change of this equipment will result in: 1.Contract price adjustment. 2.Extended shipping promise as this contract is in the manufacturing process.

By: D.TAKAHASHI — Date: Aug.26.'25

By: — Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

EBARA ELLIOTT ENERGY

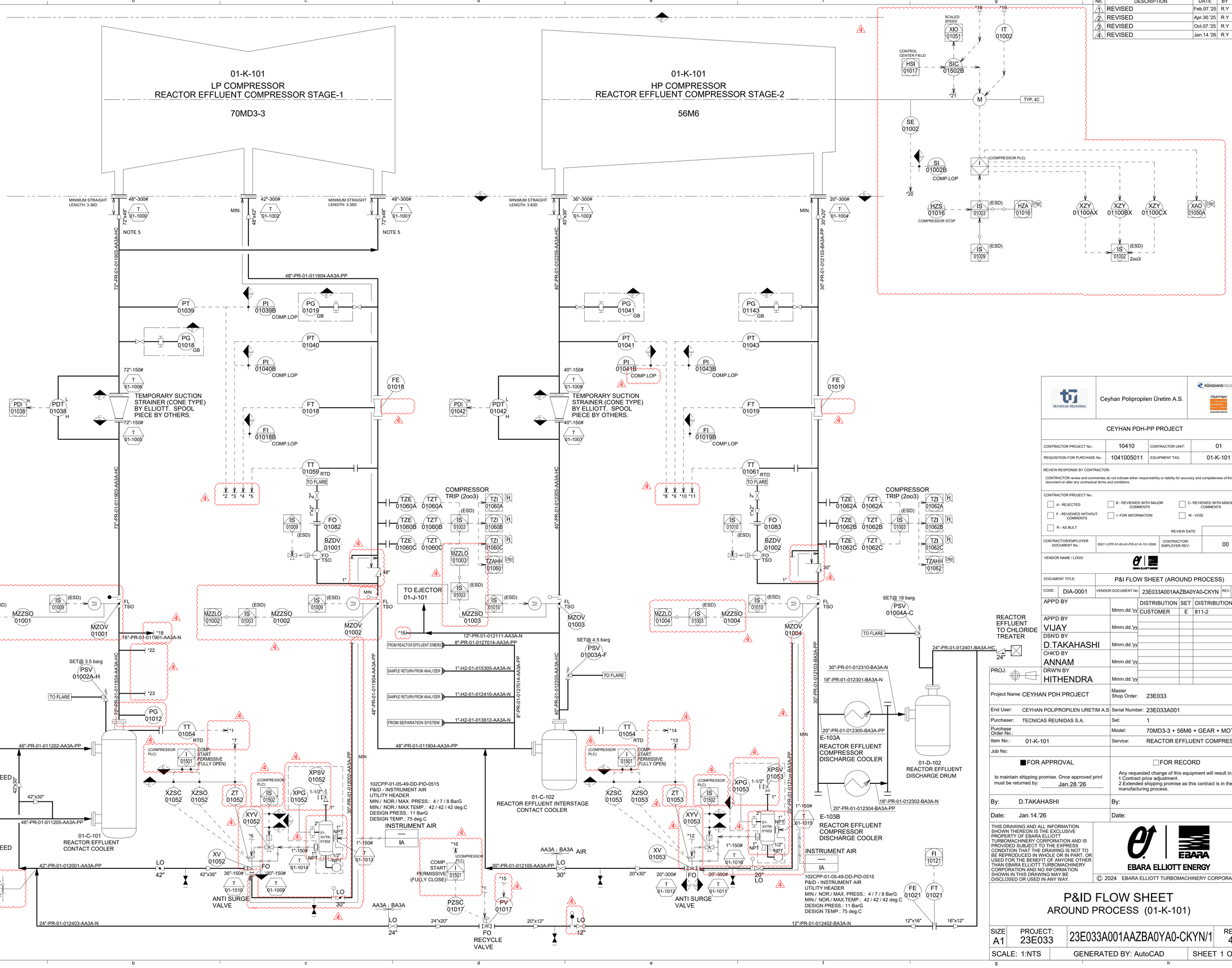
P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZAA0YA0-CKYN	4

SCALE: 1:NTS — GENERATED BY: AutoCAD — SHEET 1 OF 1

ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Feb.07.'25	R.Y	VIJAY
2	REVISED	Apr.30.'25	R.Y	VIJAY
3	REVISED	Oct.07.'25	R.Y	VIJAY
4	REVISED	Jan.14.'26	R.Y	VIJAY



TECNICAS REUNIDAS	Ceyhan Polipropilen Üretim A.S.	RÖNESANS HOLDING / Çağlar Uçar / somatrenc.tr	
CEYHAN PDH-PP PROJECT			
CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:

CONTRACTOR review and comments do not indicate either responsibility or liability for accuracy and completeness of this document on alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:

- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.:	05011-CPP-01-00-AV-PID-01-K-101-0006	CONTRACTOR/ EMPLOYER REV:	00

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE: P&I FLOW SHEET (AROUND PROCESS)

CODE:	DIA-0001	VENDOR DOCUMENT No:	23E033A001AAZBA0YA0-CKYN	REV:	4

		DISTRIBUTION	SET	DISTRIBUTION	SET
APP'D BY	Mmm.dd.'yy	CUSTOMER	E	811-2	2C
APP'D BY VIJAY	Mmm.dd.'yy				
DSN'D BY D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY ANNAM	Mmm.dd.'yy				
PROJ. DRW'N BY HITHENDRA	Mmm.dd.'yy				

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL

to maintain shipping promise. Once approved print must be returned by: Jan.28.'26

☐ FOR RECORD

Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By:	D.TAKAHASHI	By:	
Date:	Jan.14.'26	Date:	

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

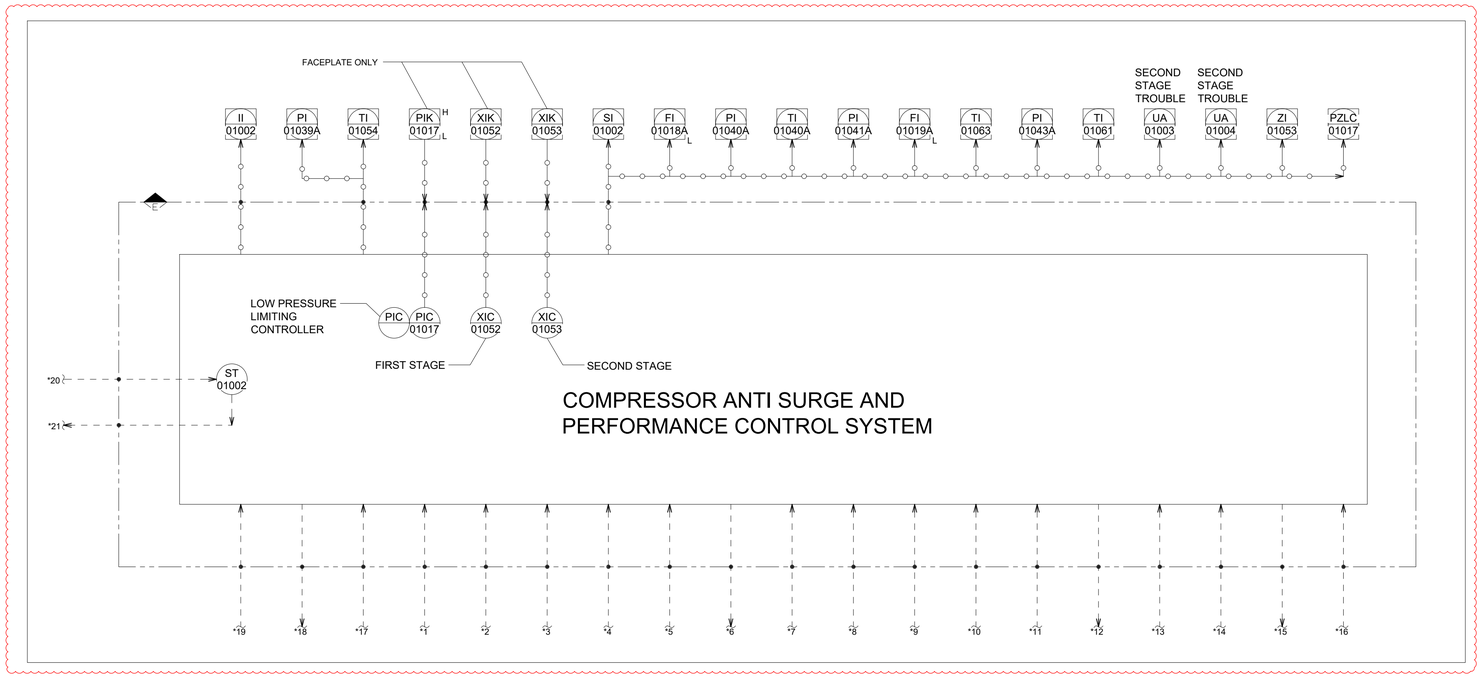
© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

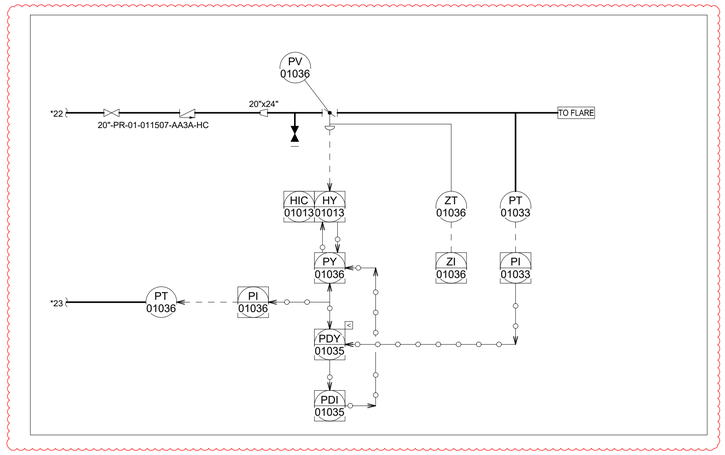
P&ID FLOW SHEET
AROUND PROCESS (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZBA0YA0-CKYN/1	4
SCALE: 1:NTS	GENERATED BY: AutoCAD	SHEET 1 OF 2	

ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Feb.07.'25	R.Y	VIJAY
2	REVISED	Apr.30.'25	R.Y	VIJAY
3	REVISED	Oct.07.'25	R.Y	VIJAY
4	REVISED	Jan.30.'26	R.Y	VIJAY





NOTE:

1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. PLEASE REFER TO P&I FLOW SHEET SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001) FOR SYMBOLS AND LEGEND.
3. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT
4. DELETED
5. PIPING IS SYMMETRICAL
6. LIP SEAL WELD IS REQUIRED FOR THE FLANGE CONNECTIONS OF COMPRESSOR PROCESS PIPING ARRANGEMENT. INSTRUMENTS, VALVES AND STRAINERS IN ELLIOTT'S SCOPE OF SUPPLY ARE SUITABLE FOR LIP SEAL WELD, AS WELL AS COMPRESSOR CONNECTIONS.

CUSTOMER CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
T-01-1000	LP COMPRESSOR INLET	48"-300# RF
T-01-1001	LP COMPRESSOR INLET	48"-300# RF
T-01-1002	LP COMPRESSOR DISCHARGE	42"-300# RF
T-01-1003	HP COMPRESSOR INLET	36"-300# RF
T-01-1004	HP COMPRESSOR DISCHARGE	20"-300# RF
T-01-1005	LP COMPRESSOR SUCTION STRAINER INLET	72"-150# RF
T-01-1006	LP COMPRESSOR SUCTION STRAINER OUTLET	72"-150# RF
T-01-1007	HP COMPRESSOR SUCTION STRAINER INLET	40"-150# RF
T-01-1008	HP COMPRESSOR SUCTION STRAINER OUTLET	40"-150# RF
T-01-1009	ANTI-SURGE VALVE INLET (1ST STAGE)	30"-150# RF
T-01-1010	ANTI-SURGE VALVE OUTLET (1ST STAGE)	36"-150# RF
T-01-1011	ANTI-SURGE VALVE INLET (2ST STAGE)	20"-300# RF
T-01-1012	ANTI-SURGE VALVE OUTLET (2ST STAGE)	20"-300# RF
T-01-1013	VOLUME TANK INLET(ASV FIRST STAGE)	1"-150# NPT
T-01-1014	VOLUME TANK OUTLET(ASV FIRST STAGE)	1"-150# NPT
T-01-1015	VOLUME TANK INLET(ASV SECOND STAGE)	1"-150# NPT
T-01-1016	VOLUME TANK OUTLET(ASV SECOND STAGE)	1"-150# NPT

REFERENCE DRAWINGS ARE AS FOLLOWS :

1. P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)
2. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
3. P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101) : 23E033A001AAZCA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0003)
4. P&I FLOW SHEET FOR COMPRESSOR SEAL GAS (01-K-101) : 23E033A001AAZDA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0004)
5. P&I FLOW SHEET FOR MMS (01-K-101) : 23E033A001AAZHA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0005)
6. P&I FLOW SHEET FOR OIL CONSOLE (01-K-101) : 23E033A001AAZKA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0007)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) : 23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. P&ID PDH UNIT REACTOR EFFLUENT CONTACT COOLER (102CPP-01-01-49-DD-PID-0115)
9. P&ID PDH UNIT REACTOR EFFLUENT COMPRESSOR-FIRST STAGE) (102CPP-01-01-49-DD-PID-0119)
10. P&ID PDH UNIT COMPRESSOR ANTI-SURGE AND PROCESS CONTROL SYSTEM (102CPP-01-01-49-DD-PID-0120)
11. P&ID PDH UNIT REACTOR EFFLUENT COMPRESSOR-STAGE 2 (102CPP-01-01-49-DD-PID-0121-1)
12. P&ID PDH UNIT REACTOR EFFLUENT INTERSTAGE CONTACT COOLER (102CPP-01-01-49-DD-PID-0122-1)
13. P&ID PDH UNIT REACTOR EFFLUENT COMPRESSOR DISCHARGE DRUM (102CPP-01-01-49-DD-PID-0124)

01-K-101	
REACTOR EFFLUENT COMPRESSOR STAGE-1	
TYPE	CENTRIFUGAL
RATED CAPACITY(Nm³/hr)	203151
SUCTION PRESS.(barg)	-0.22
DISCHARGE PRESS.(barg)	3.11
DRIVER POWER(kW)	25892
INSULATION	N

01-D-102	
REACTOR EFFLUENT DISCHARGE DRUM	
SIZE ID x TT (mm)	3700 x 4100
DESIGN PRESS. (barg)	18/FV @ 42°C
DESIGN TEMP.(°C)	145/-5
INSULATION	N
TRIM	TR-012401-BA3A

01-K-101	
REACTOR EFFLUENT COMPRESSOR STAGE-2	
TYPE	CENTRIFUGAL
RATED CAPACITY(Nm³/hr)	199030
SUCTION PRESS.(barg)	1.93
DISCHARGE PRESS.(barg)	12.6
DRIVER POWER(kW)	25892
INSULATION	N

01-XVTK-01502	
AIR VOLUME TANK(ASV FIRST STAGE)	
SIZE ID x TT (mm)	600 X 1700
DESIGN PRESS. (barg)	11
DESIGN TEMP.(°C)	100
INSULATION	NA
TRIM	SA240M 316L

01-C-101	
REACTOR EFFLUENT CONTACT COOLER	
SIZE ID x TT (mm)	6800 x 20100
DESIGN PRESS. (barg)	3.5/FV @ 148°C
DESIGN TEMP.(°C)	180/-5
INSULATION	PP
TRIM	TR-011501-AA3A

01-XVTK-01503	
AIR VOLUME TANK(ASV SECOND STAGE)	
SIZE ID x TT (mm)	600 X 1700
DESIGN PRESS. (barg)	11
DESIGN TEMP.(°C)	100
INSULATION	NA
TRIM	SA240M 316L

01-C-102	
REACTOR EFFLUENT INTERSTAGE CONTACT COOLER	
SIZE ID x TT (mm)	5500 x 13600
DESIGN PRESS. (barg)	4.5/FV @ 137°C
DESIGN TEMP.(°C)	170/-5
INSULATION	PP
TRIM	TR-012201-AA3A

TECNICAS REUNIDAS | Ceyhan Polipropilen Üretim A.S. | RÖNESANS HOLDING

CEYHAN PDH-PP PROJECT

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:

CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on after any contractual terms and conditions.

CONTRACTOR PROJECT No.:

☐ A - REJECTED ☐ B - REVIEWED WITH MAJOR COMMENTS ☐ C- REVIEWED WITH MINOR COMMENTS
☐ F - REVIEWED WITHOUT COMMENTS ☐ I- FOR INFORMATION ☐ M - VOID
☐ R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.:	05011-CPP-01-00-4V-PID-01-K-101-0006	CONTRACTOR/ EMPLOYER REV:	00

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE: P&I FLOW SHEET (AROUND PROCESS)

CODE:	VENDOR DOCUMENT No:	REV:
DIA-0001	23E033A001AAZBA0YA0-CKYN	4

		DISTRIBUTION	SET	DISTRIBUTION	SET
APP'D BY	Mmm.dd.'yy	CUSTOMER	E	811-2	2C
APP'D BY VIJAY	Mmm.dd.'yy				
DSN'D BY D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY ANNAM	Mmm.dd.'yy				
DRW'N BY HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL

to maintain shipping promise. Once approved print must be returned by: Feb.13.'26

☐ FOR RECORD

Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By: D.TAKAHASHI	By:
Date: Jan.30.'26	Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

P&ID FLOW SHEET
AROUND PROCESS (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZBA0YA0-CKYN/2	4

SCALE: 1:NTS | GENERATED BY: AutoCAD | SHEET 2 OF 2

ELEC1

JUNCTION BOX FOR TRANSMITTER
01-JB-A-01001-UCC

JUNCTION BOX FOR TRIP TRANSMITTER
01-JB-A-01001-UCS

REFERENCE DRAWINGS ARE AS FOLLOWS :
1. P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)
2. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
3. P&I FLOW SHEET FOR COMPRESSOR SEAL GAS (01-K-101) : 23E033A001AAZDA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0004)
4. P&I FLOW SHEET FOR MMS (01-K-101) : 23E033A001AAZHA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0005)
5. P&I FLOW SHEET FOR DRY GAS SEAL PANEL (01-K-101) : 23E033A001AAZJA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0006)
6. P&I FLOW SHEET FOR OIL CONSOLE (01-K-101) : 23E033A001AAZKA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0007)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) :23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. P&ID-PROPANE DEHYDROGENATION UNIT DRY GAS SEAL PANEL FOR COMPRESSOR 01-K-101: 102CPP-01-01-49-DD-PID-0121-2

INTERNAL CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
LO-201	LUBE OIL SUPPLY FIELD FIT WELD CONNECTION	3/4"-150# ASME B16.5 RF
LO-202	LUBE OIL SUPPLY FIELD FIT WELD CONNECTION	2"-150# ASME B16.5 RF
LO-203	LUBE OIL SUPPLY FIELD FIT WELD CONNECTION	2"-150# ASME B16.5 RF
OR-201	LUBE OIL RETURN FIELD FIT WELD CONNECTION	3"-150# ASME B16.5 RF
OR-202	LUBE OIL RETURN FIELD FIT WELD CONNECTION	4"-150# ASME B16.5 RF
OR-203	LUBE OIL RETURN FIELD FIT WELD CONNECTION	4"-150# ASME B16.5 RF

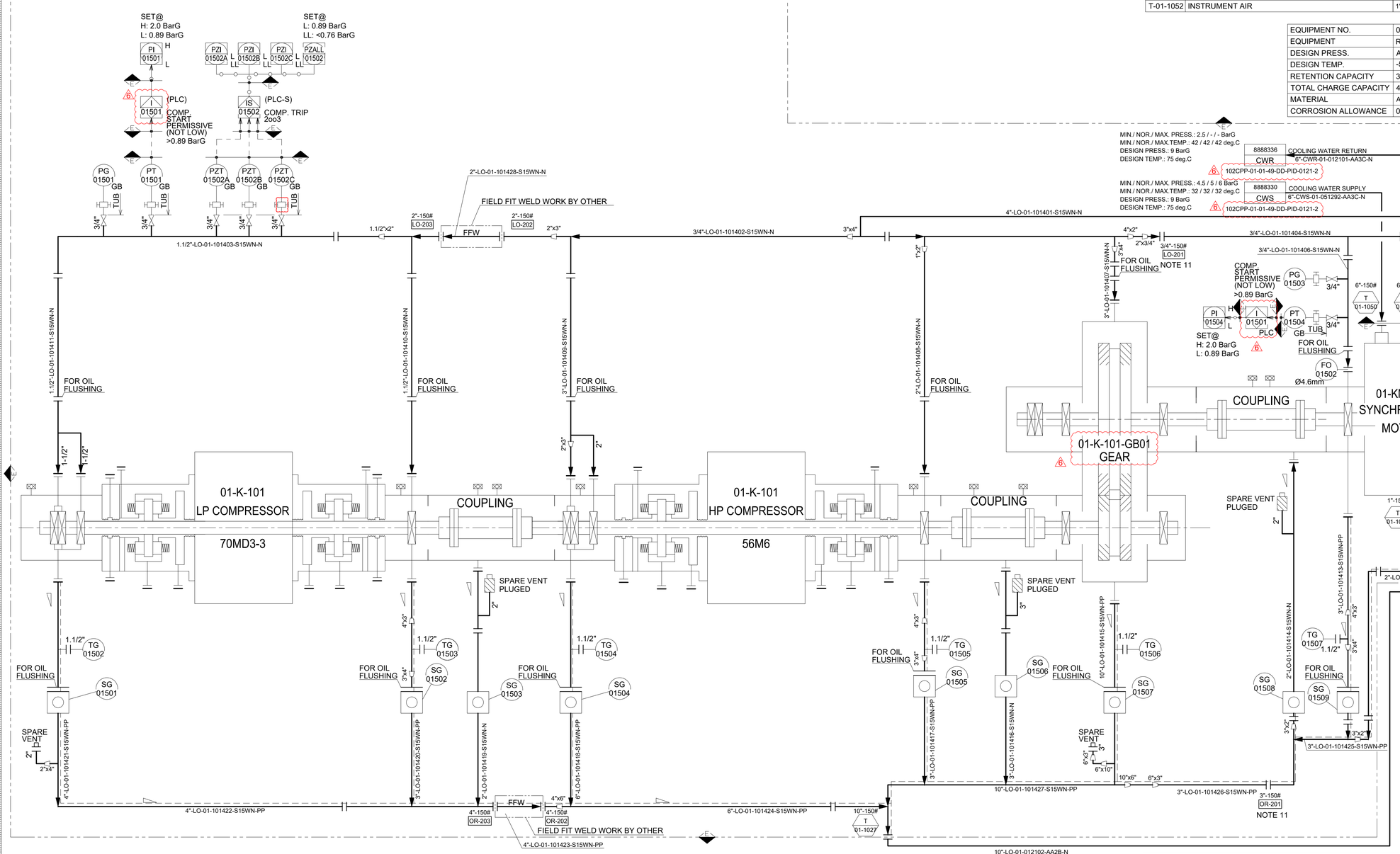
CUSTOMER CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
T-01-1020	RUNDOWN TANK INLET	4"-150# ASME B16.5 RF
T-01-1021	CHECK VALVE UNIT CONNECTION	4"-150# ASME B16.5 RF
T-01-1022	CHECK VALVE UNIT CONNECTION	4"-150# ASME B16.5 RF
T-01-1023	RUNDOWN TANK OVERFLOW	4"-150# ASME B16.5 RF
T-01-1024	LUBE OIL SUPPLY	4"-150# ASME B16.5 RF
T-01-1025	SIGHT GLASS CONNECTION	4"-150# ASME B16.5 RF
T-01-1026	SIGHT GLASS CONNECTION	4"-150# ASME B16.5 RF
T-01-1027	LUBE OIL RETURN	10"-150# ASME B16.5 RF
T-01-1050	COOLING WATER SUPPLY	6"-150# ASME B16.5 RF
T-01-1051	COOLING WATER RETURN	6"-150# ASME B16.5 RF
T-01-1052	INSTRUMENT AIR	1"-150# ASME B16.5 RF

EQUIPMENT NO.	01-K-101-D01
EQUIPMENT	RUNDOWN TANK
DESIGN PRESS.	ATM.
DESIGN TEMP.	-5/71 Deg. C
RETENTION CAPACITY	3554 LITRES
TOTAL CHARGE CAPACITY	4280 LITERS
MATERIAL	ASTM A240 TP304/304L
CORROSION ALLOWANCE	0 mm

REVISIONS

No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Jan.31.'25	R.Y	VIJAY
2	REVISED	Apr.11.'25	R.Y	VIJAY
3	REVISED	Jul.18.'25	R.Y	VIJAY
4	REVISED	Oct.03.'25	R.Y	VIJAY
5	REVISED	Oct.31.'25	R.Y	VIJAY
6	REVISED	Dec.15.'25	R.Y	VIJAY



NOTE:
1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. PLEASE REFER TO P&I FLOW SHEET SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)FOR SYMBOLS AND LEGEND.
3. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT
4. THE EMERGENCY LUBE OIL RUNDOWN TANK SHALL BE LOCATED AS CLOSE TO ROTATING EQUIPMENT AS POSSIBLE.
5. TO ENSURE PROPER VENTING OF THE RUNDOWN TANK THE INTERCONNECTING PIPING BETWEEN OVERFLOW NOZZLE AND OIL RETURN LINE SHALL BE ROUTED SUCH THAT NO POCKET CAN BE FORMED
6. ALL DRAIN LINES TO SLOPE DOWNWARD TOWARD OIL RESERVOIR MINIMUM 1/2" PER FOOT(1/24) / 42MM PER METER
7. CHECK VALVE UNIT AND SIGHT FLOW INDICATOR SHALL BE ACCESSIBLE FROM PLATFORM . SIGHT FLOW INDICATOR(ON OVER FLOW LINE) SHALL BE VISIBLE FROM THE FILL VALVE LOCATION.
8. FFW=FIELD FIT WELD.
9. PIPING SUPPORT (DESIGN/MATERAIL) FOR OIL SUPPLY AND OIL RETURN HEADERS WITHIN T -01-1024 (OIL INLET) AND T-01-1027 (OIL OUTLET) ARE LOOSE SUPPLIED BY ELLIOTT
10. CHECK VALVE SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO BRANCH POINT TO RUNDOWN TANK.
11. FIELD FIT CONNECTION AND WELDING WILL BE DONE AT SITE

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:
CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:
- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.:	05011-CPP-01-00-4V-PID-01-K-101-0003	CONTRACTOR/ EMPLOYER REV:	03

VENDOR NAME / LOGO

DOCUMENT TITLE:	P&I FLOW SHEET (COMP. UNIT LUBE OIL)		
CODE: DIA-0001	VENDOR DOCUMENT No: 23E033A001AAZCA0YA0-CKYN	REV:	6

TECNICAS REUNIDAS | Ceyhan Polipropilen Üretim A.S. | RÖNESANS HOLDING | Sigortaşı | sonatrach

CEYHAN PDH-PP PROJECT

APP'D BY	Mmm.dd.'yy	DISTRIBUTION	SET	DISTRIBUTION	SET
		CUSTOMER	E	811-2	2C
APP'D BY VIJAY	Mmm.dd.'yy				
DSN'D BY D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY ANNAM	Mmm.dd.'yy				
DRW'N BY HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL
to maintain shipping promise. Once approved print must be returned by: Dec.29.'25
By: D.TAKAHASHI
Date: Dec.15.'25

☐ FOR RECORD
Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.
By:
Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZCA0YA0-CKYN	6

SCALE: 1:NTS | GENERATED BY: AutoCAD | SHEET 1 OF 1

ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Feb.07.'25	R.Y	VIJAY
2	REVISED	May.12.'25	R.Y	VIJAY
3	REVISED	Aug.21.'25	R.Y	VIJAY
4	REVISED	Oct.15.'25	R.Y	VIJAY
5	REVISED	Dec.17.'25	R.Y	VIJAY
6	REVISED	Feb.13.'26	R.Y	VIJAY

EQUIPMENT NO. EQUIPMENT	01-K-101-D03
EQUIPMENT	OIL ACCUMULATOR
DESIGN PRESS.	13 BarG
DESIGN TEMP.	71.1 Deg.C
VOLUME	0.6 m3
PRE-CHARGE PRESSURE	3.086 barg

EQUIPMENT NO.	01-K-101-PM01A/B
EQUIPMENT	OIL PUMP MOTOR
RATED POWER	55 kW

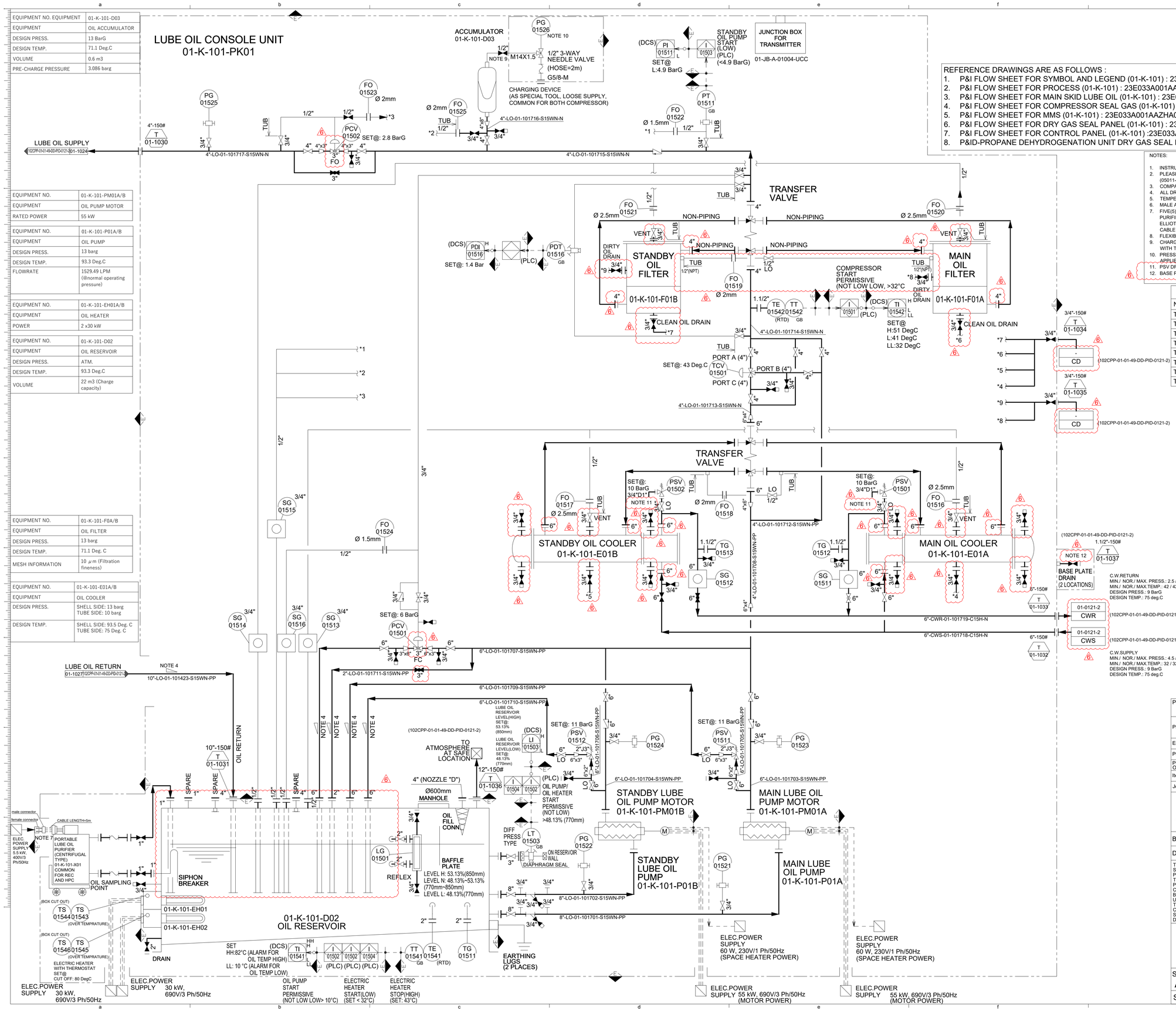
EQUIPMENT NO.	01-K-101-P01A/B
EQUIPMENT	OIL PUMP
DESIGN PRESS.	13 barg
DESIGN TEMP.	93.3 Deg.C
FLOWRATE	1529.49 LPM (@normal operating pressure)

EQUIPMENT NO.	01-K-101-EH01A/B
EQUIPMENT	OIL HEATER
POWER	2 x30 kW

EQUIPMENT NO.	01-K-101-D02
EQUIPMENT	OIL RESERVOIR
DESIGN PRESS.	ATM.
DESIGN TEMP.	93.3 Deg.C
VOLUME	22 m3 (Charge capacity)

EQUIPMENT NO.	01-K-101-F0A/B
EQUIPMENT	OIL FILTER
DESIGN PRESS.	13 barg
DESIGN TEMP.	71.1 Deg. C
MESH INFORMATION	10 μ m (Filtration fineness)

EQUIPMENT NO.	01-K-101-E01A/B
EQUIPMENT	OIL COOLER
DESIGN PRESS.	SHELL SIDE: 13 barg TUBE SIDE: 10 barg
DESIGN TEMP.	SHELL SIDE: 93.5 Deg. C TUBE SIDE: 75 Deg. C



REFERENCE DRAWINGS ARE AS FOLLOWS :

1. P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)
2. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
3. P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101) : 23E033A001AAZCA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0003)
4. P&I FLOW SHEET FOR COMPRESSOR SEAL GAS (01-K-101) : 23E033A001AAZDA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0004)
5. P&I FLOW SHEET FOR MMS (01-K-101) : 23E033A001AAZHA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0005)
6. P&I FLOW SHEET FOR DRY GAS SEAL PANEL (01-K-101) : 23E033A001AAZJA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0006)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) :23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. P&ID-PROPANE DEHYDROGENATION UNIT DRY GAS SEAL PANEL FOR COMPRESSOR 01-K-101: 102CPP-01-01-49-DD-PID-0121-2

NOTES:

1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. PLEASE REFER TO P&I FLOW SHEET SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)FOR SYMBOLS AND LEGEND.
3. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT
4. ALL DRAIN LINES TO SLOPE DOWNWARD TOWARD OIL RESERVOIR MINIMUM 1/2" PER FOOT(1/24) / 42MM PER METER
5. TEMPERATURE CONTROL VALVE IS DESIGNED FOR FAIL CLOSE(FC) ON HOT OIL SIDE ONLY
6. MALE AND FEMALE OF CABLE RECEPTACLE FOR THE PURIFIER ARE PROVIDED BY ELLIOTT
7. FIVE(5) METER POWER CABLE WITH EXPLOSION PROOF PLUG(MALE CONNECTOR) CONSIDERED FOR THE OIL PURIFIER. TWO(2) NO'S SOCKET(FEMALE CONNECTOR FOR REC AND HPC OIL CONSOLE RESPECTIVELY) PROVIDED BY ELLIOTT TO BE MOUNTED NEAR THE OIL CONSOLE.THE SOCKET LOCATION SHALL BE SUITABLE FOR GIVEN POWER CABLE LENGTH.
8. FLEXIBLE HOSE WITH ADEQUATE LENGTH FOR OIL INLET AND OIL OUTLET FROM/TO OIL PURIFIER CONSIDERED
9. CHARGING TUBE FROM ACCUMULATOR TOP WILL BE ROUTED TO AN ACCESSIBLE LOCATION AT THE GROUND FLOOR WITH TIGHT SHUT OF VALVE. THE END CONNECTION WILL BE SUITABLE CHARGING KIT CONNECTION.
10. PRESSURE GAUGE IN CHARGING KIT IS SUPPLIED AS PER PROJECT SPECIFICATION. 01-K-101 SYSTEM TAG NUMBER IS APPLIED.
11. PSV DRAIN ARE ROUTED TO BASE PLATE DRAIN.
12. BASE PLATE DRAINS ARE ROUTED TO OWS.

CUSTOMER CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
T-01-1030	LUBE OIL SUPPLY	4"-150# ASME B16.5 RF
T-01-1031	LUBE OIL RETURN	10"-150# ASME B16.5 RF
T-01-1032	COOLING WATER INLET	6"-150# ASME B16.5 RF
T-01-1033	COOLING WATER OUTLET	6"-150# ASME B16.5 RF
T-01-1034	CLEAN OIL DRAIN	3/4"-150# ASME B16.5 RF
T-01-1035	DIRTY OIL DRAIN	3/4"-150# ASME B16.5 RF
T-01-1036	OIL RESERVOIR VENT	12"-150# ASME B16.5 RF
T-01-1037	BASE PLATE DRAIN	1.1/2"-150# ASME B16.5 RF

TECNICAS REUNIDAS | Ceyhan Polipropilen Üretim A.S. | RÖNESANS HOLDING

CEYHAN PDH-PP PROJECT

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:

CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:

- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.:	05011-CPP-01-00-4V-PID-01-K-101-0007	CONTRACTOR/ EMPLOYER REV:	03

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE:	P&I FLOW SHEET (LUBE OIL CONSOLE)				
CODE:	DIA-0001	VENDOR DOCUMENT No:	23E033A001AAZKA0YA0-CKYN	REV:	6

		DISTRIBUTION	SET	DISTRIBUTION	SET
APP'D BY	Mmm.dd.'yy	CUSTOMER	E	811-2	2C
VIJAY	Mmm.dd.'yy				
DSN'D BY					
D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY					
ANNAM	Mmm.dd.'yy				
DRW'N BY					
HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL

to maintain shipping promise. Once approved print must be returned by: Feb.27.'26

☐ FOR RECORD

Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By: D.TAKAHASHI	By:
Date: Feb.13.'26	Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

P&I FLOW SHEET FOR OIL CONSOLE (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZKA0YA0-CKYN	6
SCALE: 1:NTS	GENERATED BY: AutoCAD		SHEET 1 OF 1

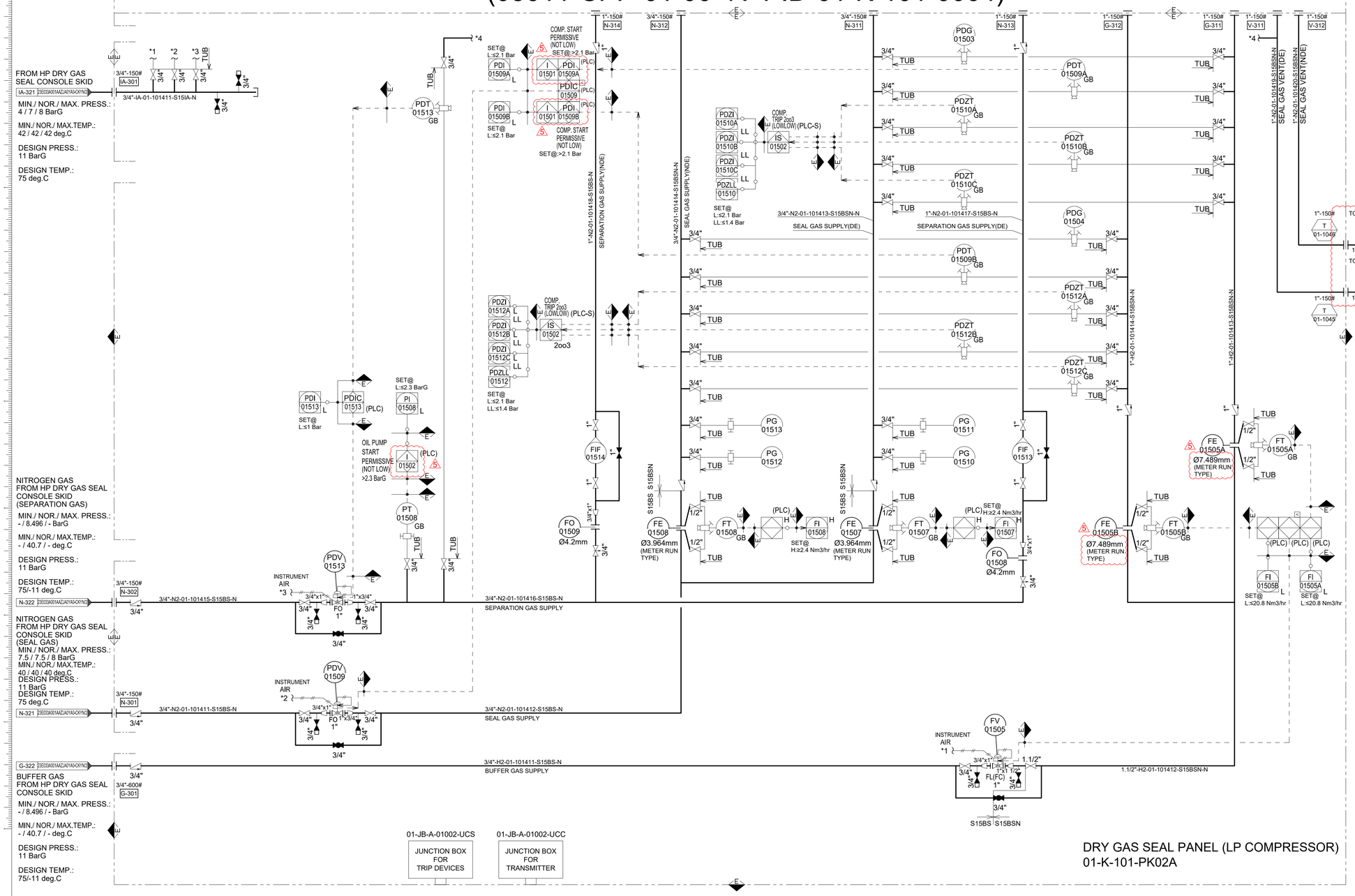
ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Feb.07.'25	R.Y	VIJAY
2	REVISED	May.08.'25	R.Y	VIJAY
3	REVISED	Aug.25.'25	R.Y	VIJAY
4	REVISED	Oct.31.'25	R.Y	VIJAY
5	REVISED	Dec.26.'25	R.Y	VIJAY

REFERENCE DRAWINGS ARE AS FOLLOWS :
1. P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)
2. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
3. P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101) : 23E033A001AAZCA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0003)
4. P&I FLOW SHEET FOR COMPRESSOR SEAL GAS (01-K-101) : 23E033A001AAZDA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0004)
5. P&I FLOW SHEET FOR MMS (01-K-101) : 23E033A001AAZHA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0005)
6. P&I FLOW SHEET FOR OIL CONSOLE (01-K-101) : 23E033A001AAZKA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0007)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) :23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. P&ID-PROPANE DEHYDROGENATION UNIT DRY GAS SEAL PANEL FOR COMPRESSOR 01-K-101: 102CPP-01-01-49-DD-PID-0121-2

NOTE:
1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. PLEASE REFER TO P&I FLOW SHEET SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)FOR SYMBOLS AND LEGEND.
3. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT
4. CUSTOMER INTERCONNECTING PIPING BETWEEN TWO OR MORE ELLIOTT CONNECTIONS SHALL BE SIZED, AS A MINIMUM, TO MATCH THE LARGER CONNECTION SIZE. WHERE A REDUCER IS NECESSARY, IT SHALL BE INSTALLED AS CLOSE TO THE SMALLER CONNECTION AS POSSIBLE.

REFER TO P&ID FLOW SHEET
LP COMPRESSOR SEAL GAS
23E033A001AAZDA0YA0-CKYN/1
(05011-CPP-01-00-4V-PID-01-K-101-0004)



INTERNAL CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
G-301	BUFFER GAS SOURCE	3/4"-150# ASME B16.5 RF
G-311	BUFFER GAS SUPPLY (DE)	1"-150# ASME B16.5 RF
G-312	BUFFER GAS SUPPLY (NDE)	1"-150# ASME B16.5 RF
N-311	SEAL GAS SUPPLY (DE)	3/4"-150# ASME B16.5 RF
N-312	SEAL GAS SUPPLY (NDE)	3/4"-150# ASME B16.5 RF
N-313	SEPARATION GAS SUPPLY (DE)	1"-150# ASME B16.5 RF
N-314	SEPARATION GAS SUPPLY (NDE)	1"-150# ASME B16.5 RF
N-301	NITROGEN GAS SOURCE FROM HP DGSP(SEAL GAS)	3/4"-150# ASME B16.5 RF
N-302	NITROGEN GAS SOURCE FROM HP DGSP (SEPARATION GAS)	3/4"-150# ASME B16.5 RF
IA-301	INSTRUMENT AIR SUPPLY	3/4"-150# ASME B16.5 RF
V-311	SEAL GAS VENT(DE)	1"-150# ASME B16.5 RF
V-312	SEAL GAS VENT(NDE)	1"-150# ASME B16.5 RF

CUSTOMER CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
T-01-1045	VENT TO ATM (DE)	1"-150# ASME B16.5 RF
T-01-1046	VENT TO ATM (NDE)	1"-150# ASME B16.5 RF

TECNICAS REUNIDAS | Ceyhan Polipropilen Üretim A.S. | RÖNESANS HOLDING

CEYHAN PDH-PP PROJECT

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:
CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document or alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:
A - REJECTED | B - REVIEWED WITH MAJOR COMMENTS | C- REVIEWED WITH MINOR COMMENTS | F - REVIEWED WITHOUT COMMENTS | I- FOR INFORMATION | M - VOID | R - AS BULT
REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.:	05011-CPP-01-00-4V-PID-01-K-101-0006	CONTRACTOR/ EMPLOYER REV:	01

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE: P&I FLOW SHEET (COMPRESSOR / DRY GAS SEAL PANEL) 1/2

CODE:	DIA-0001	VENDOR DOCUMENT No:	23E033A001AAZJA0YA0-CKYN	REV:	5

		DISTRIBUTION	SET	DISTRIBUTION	SET
APP'D BY	Mmm.dd.'yy	CUSTOMER	E	811-2	2C
APP'D BY VIJAY	Mmm.dd.'yy				
DSN'D BY D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY ANNAM	Mmm.dd.'yy				
DRW'N BY HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL
to maintain shipping promise. Once approved print must be returned by: Jan.09.'25
By: D.TAKAHASHI
Date: Dec.26.'25

☐ FOR RECORD
Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.
By:
Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

P&I FLOW SHEET FOR
DRY GAS SEAL PANEL (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZJA0YA0-CKYN/1	5

SCALE: 1:NTS | GENERATED BY: AutoCAD | SHEET 1 OF 2

ELEC1

EQUIPMENT NO.	01-K-101-F02A/B
EQUIPMENT.	SEAL GAS FILTER
DESIGN PRESS.	11 BarG
DESIGN TEMP.	75 Deg.C
MATERIAL(CASING)	STAINLESS STEEL SS316
MATERIAL (FILTER ELEMENT)	STAINLESS STEEL SS316L
CAPACITY	409.52 Nm3/hr
DEGREE OF FILTRATION	3 µm

EQUIPMENT NO.	01-K-101-F03A/B
EQUIPMENT.	N2 GAS FILTER
DESIGN PRESS.	11 BarG
DESIGN TEMP.	75 Deg.C
MATERIAL(CASING)	STAINLESS STEEL SS316
MATERIAL (FILTER ELEMENT)	STAINLESS STEEL SS316L
CAPACITY	115.32 Nm3/hr
DEGREE OF FILTRATION	3 µm

EQUIPMENT NO.	01-K-101-F04A/B
EQUIPMENT.	N2 GAS FILTER
DESIGN PRESS.	11 BarG
DESIGN TEMP.	75 Deg.C
MATERIAL(CASING)	STAINLESS STEEL SS316
MATERIAL (FILTER ELEMENT)	STAINLESS STEEL SS316L
CAPACITY	6.38 Nm3/hr
DEGREE OF FILTRATION	3 µm

REFERENCE DRAWINGS ARE AS FOLLOWS :

1. P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)
2. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
3. P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101) : 23E033A001AAZCA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0003)
4. P&I FLOW SHEET FOR COMPRESSOR SEAL GAS (01-K-101) : 23E033A001AAZDA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0004)
5. P&I FLOW SHEET FOR MMS (01-K-101) : 23E033A001AAZHA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0005)
6. P&I FLOW SHEET FOR OIL CONSOLE (01-K-101) : 23E033A001AAZKA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0007)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) :23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. P&ID-PROPANE DEHYDROGENATION UNIT DRY GAS SEAL PANEL FOR COMPRESSOR 01-K-101: 102CPP-01-01-49-DD-PID-0121-2

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Feb.07.'25	R.Y	VIJAY
2	REVISED	May.08.'25	R.Y	VIJAY
3	REVISED	Aug.25.'25	R.Y	VIJAY
4	REVISED	Oct.31.'25	R.Y	VIJAY
5	REVISED	Dec.26.'25	R.Y	VIJAY

NOTE:

1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. PLEASE REFER TO P&I FLOW SHEET SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)FOR SYMBOLS AND LEGEND.
3. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT
4. CUSTOMER INTERCONNECTING PIPING BETWEEN TWO OR MORE ELLIOTT CONNECTIONS SHALL BE SIZED, AS A MINIMUM, TO MATCH THE LARGER CONNECTION SIZE. WHERE A REDUCER IS NECESSARY, IT SHALL BE INSTALLED AS CLOSE TO THE SMALLER CONNECTION AS POSSIBLE.

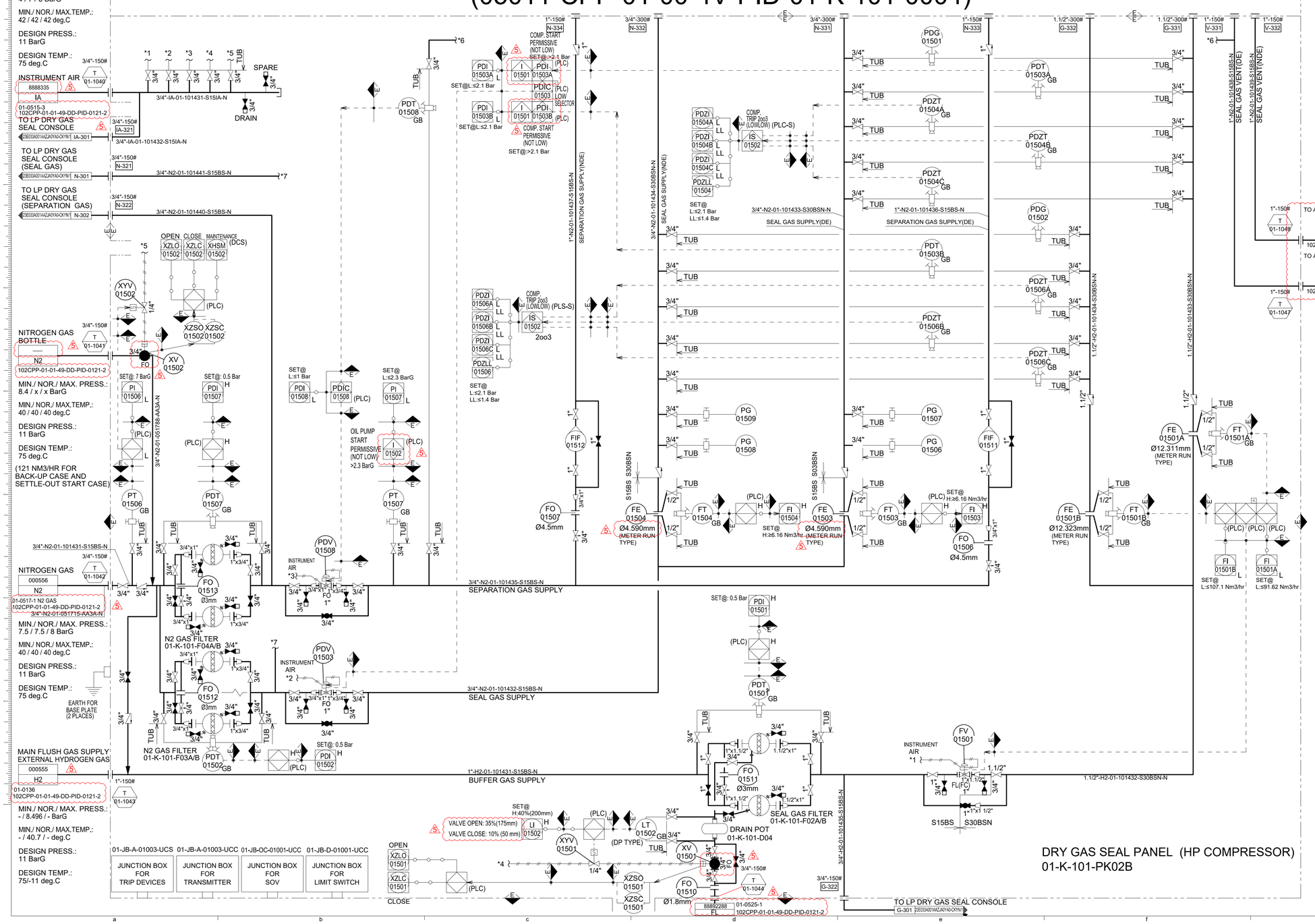
CUSTOMER CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
T-01-1040	INSTRUMENT AIR	3/4"-150# ASME B16.5 RF
T-01-1041	NITROGEN GAS BOTTLE	3/4"-150# ASME B16.5 RF
T-01-1042	NITROGEN GAS	3/4"-150# ASME B16.5 RF
T-01-1043	MAIN FLUSH GAS SUPPLY	1"-150# ASME B16.5 RF
T-01-1044	BUFFER GAS FILTER DRAIN TO FLARE	3/4"-150# ASME B16.5 RF
T-01-1047	VENT TO ATM (DE)	1"-150# ASME B16.5 RF
T-01-1048	VENT TO ATM (NDE)	1"-150# ASME B16.5 RF

INTERNAL CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
G-322	BUFFER GAS SUPPLY TO LP DGSP	3/4"-150# ASME B16.5 RF
G-331	BUFFER GAS SUPPLY (DE)	1.1/2"-300# ASME B16.5 RF
G-332	BUFFER GAS SUPPLY (NDE)	1.1/2"-300# ASME B16.5 RF
N-331	SEAL GAS SUPPLY (DE)	3/4"-300# ASME B16.5 RF
N-332	SEAL GAS SUPPLY (NDE)	3/4"-300# ASME B16.5 RF
N-333	SEPARATION GAS SUPPLY (DE)	1"-150# ASME B16.5 RF
N-334	SEPARATION GAS SUPPLY (NDE)	1"-150# ASME B16.5 RF
N-321	NITROGEN GAS SOURCE TO LP DGSP(SEAL GAS)	3/4"-150# ASME B16.5 RF
N-322	NITROGEN GAS SOURCE TO LP DGSP(SEPARATION GAS)	3/4"-150# ASME B16.5 RF
IA-321	INSTRUMENT AIR SUPPLY TO LP DGSP	3/4"-150# ASME B16.5 RF
V-331	SEAL GAS VENT(DE)	1"-150# ASME B16.5 RF
V-332	SEAL GAS VENT(NDE)	1"-150# ASME B16.5 RF

REFER TO P&ID FLOW SHEET
HP COMPRESSOR SEAL GAS
23E033A001AAZDA0YA0-CKYN/2
(05011-CPP-01-00-4V-PID-01-K-101-0004)



TECNICAS REUNIDAS	Ceyhan Polipropilen Üretim A.S.	RÖNESANS HOLDING / Çağlar Uçar / somatrech	
CEYHAN PDH-PP PROJECT			
CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:

CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on after any contractual terms and conditions.

CONTRACTOR PROJECT No.:

- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.:	05011-CPP-01-00-4V-PID-01-K-101-0006	CONTRACTOR/ EMPLOYER REV:	01

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE: P&I FLOW SHEET (COMPRESSOR / DRY GAS SEAL PANEL) 2/2

CODE: DIA-0001 | VENDOR DOCUMENT No: 23E033A001AAZJA0YA0-CKYN | REV: 5

		DISTRIBUTION	SET	DISTRIBUTION	SET
APP'D BY	Mmm.dd.'yy	CUSTOMER	E	811-2	2C
APP'D BY VIJAY	Mmm.dd.'yy				
DSN'D BY D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY ANNAM	Mmm.dd.'yy				
DRW'N BY HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL

to maintain shipping promise. Once approved print must be returned by: Jan.09.'25

By: D.TAKAHASHI

Date: Dec.26.'25

☐ FOR RECORD

Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By:

Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

P&I FLOW SHEET FOR
DRY GAS SEAL PANEL (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZJA0YA0-CKYN/2	5

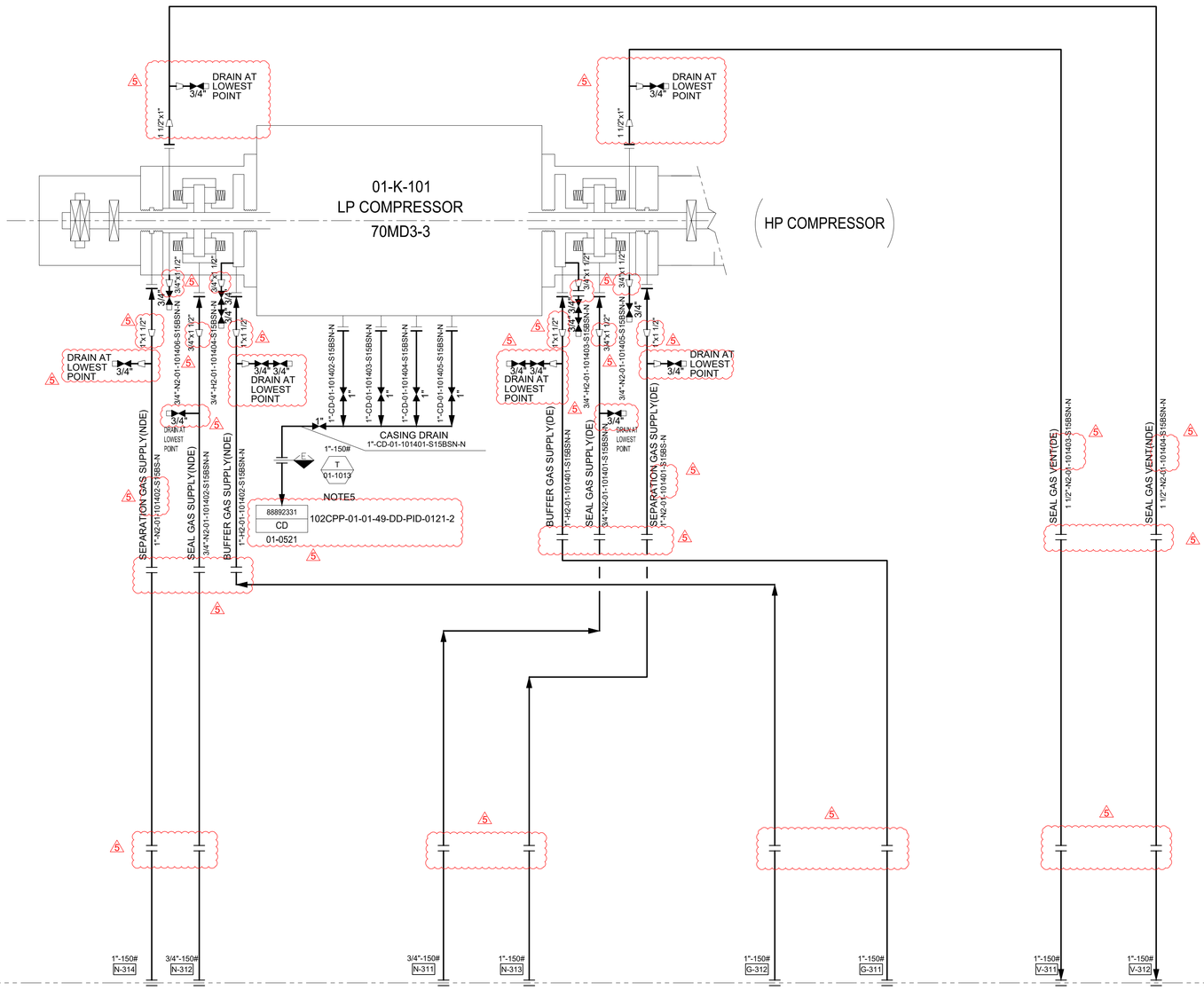
SCALE: 1:NTS | GENERATED BY: AutoCAD | SHEET 2 OF 2

ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Jan.31.'25	R.Y	VIJAY
2	REVISED	Apr.11.'25	R.Y	VIJAY
3	REVISED	Jul.18.'25	R.Y	VIJAY
4	REVISED	Sep.26.'25	R.Y	VIJAY
5	REVISED	Feb.02.'26	R.Y	VIJAY

REFERENCE DRAWINGS ARE AS FOLLOWS :

1. P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)
2. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
3. P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101) : 23E033A001AAZCA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0003)
4. P&I FLOW SHEET FOR MMS (01-K-101) : 23E033A001AAZHA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0005)
5. P&I FLOW SHEET FOR DRY GAS SEAL PANEL (01-K-101) : 23E033A001AAZJA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0006)
6. P&I FLOW SHEET FOR OIL CONSOLE (01-K-101) : 23E033A001AAZKA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0007)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) :23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. P&ID-PROPANE DEHYDROGENATION UNIT DRY GAS SEAL PANEL FOR COMPRESSOR 01-K-101: 102CPP-01-01-49-DD-PID-0121-2



REFER P&I FLOW SHEET FOR
DRY GAS SEAL PANEL (01-K-101)
(05011-CPP-01-00-4V-PID-01-K-101-0006)

NOTES:

1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. PLEASE REFER TO P&I FLOW SHEET SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)FOR SYMBOLS AND LEGEND.
3. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT.
4. CUSTOMER INTERCONNECTING PIPING BETWEEN TWO OR MORE ELLIOTT CONNECTIONS SHALL BE SIZED, AS A MINIMUM, TO MATCH THE LARGER CONNECTION SIZE. WHERE A REDUCER IS NECESSARY, IT SHALL BE INSTALLED AS CLOSE TO THE SMALLER CONNECTION AS POSSIBLE.
5. COMPRESSOR CASING DRAIN SHALL BE TERMINATED AT SKID EDGE.

CUSTOMER CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
T-01-1013	CASING DRAIN	1"-150# ASME B16.5 RF

INTERNAL CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
G-311	BUFFER GAS SUPPLY (DE)	1"-150# ASME B16.5 RF
G-312	BUFFER GAS SUPPLY (NDE)	1"-150# ASME B16.5 RF
N-311	SEAL GAS SUPPLY (DE)	3/4"-150# ASME B16.5 RF
N-312	SEAL GAS SUPPLY (NDE)	3/4"-150# ASME B16.5 RF
N-313	SEPARATION GAS SUPPLY (DE)	1"-150# ASME B16.5 RF
N-314	SEPARATION GAS SUPPLY (NDE)	1"-150# ASME B16.5 RF
V-311	SEAL GAS VENT(DE)	1"-150# ASME B16.5 RF
V-312	SEAL GAS VENT(NDE)	1"-150# ASME B16.5 RF

Ceyhan Polipropilen Üretim A.S.

CEYHAN PDH-PP PROJECT

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:

CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:

- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.:	05011-CPP-01-00-4V-PID-01-K-101-0004	CONTRACTOR/ EMPLOYER REV:	04

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE: P&I FLOW SHEET (COMPRESSOR BUFFER GAS)

CODE:	DIA-0001	VENDOR DOCUMENT No:	23E033A001AAZDA0YA0-CKYN	REV:	5

		DISTRIBUTION	SET	DISTRIBUTION	SET
APP'D BY	Mmm.dd.'yy	CUSTOMER	E	811-2	2C
VIJAY	Mmm.dd.'yy				
D.TAKAHASHI	Mmm.dd.'yy				
ANNAM	Mmm.dd.'yy				
HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S.	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL

to maintain shipping promise. Once approved print must be returned by: Feb.16.'26

☐ FOR RECORD

Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By: D.TAKAHASHI — Date: Feb.02.'26

By: — Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

P&I FLOW SHEET FOR
COMPRESSOR SEAL GAS (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZDA0YA0-CKYN/1	5

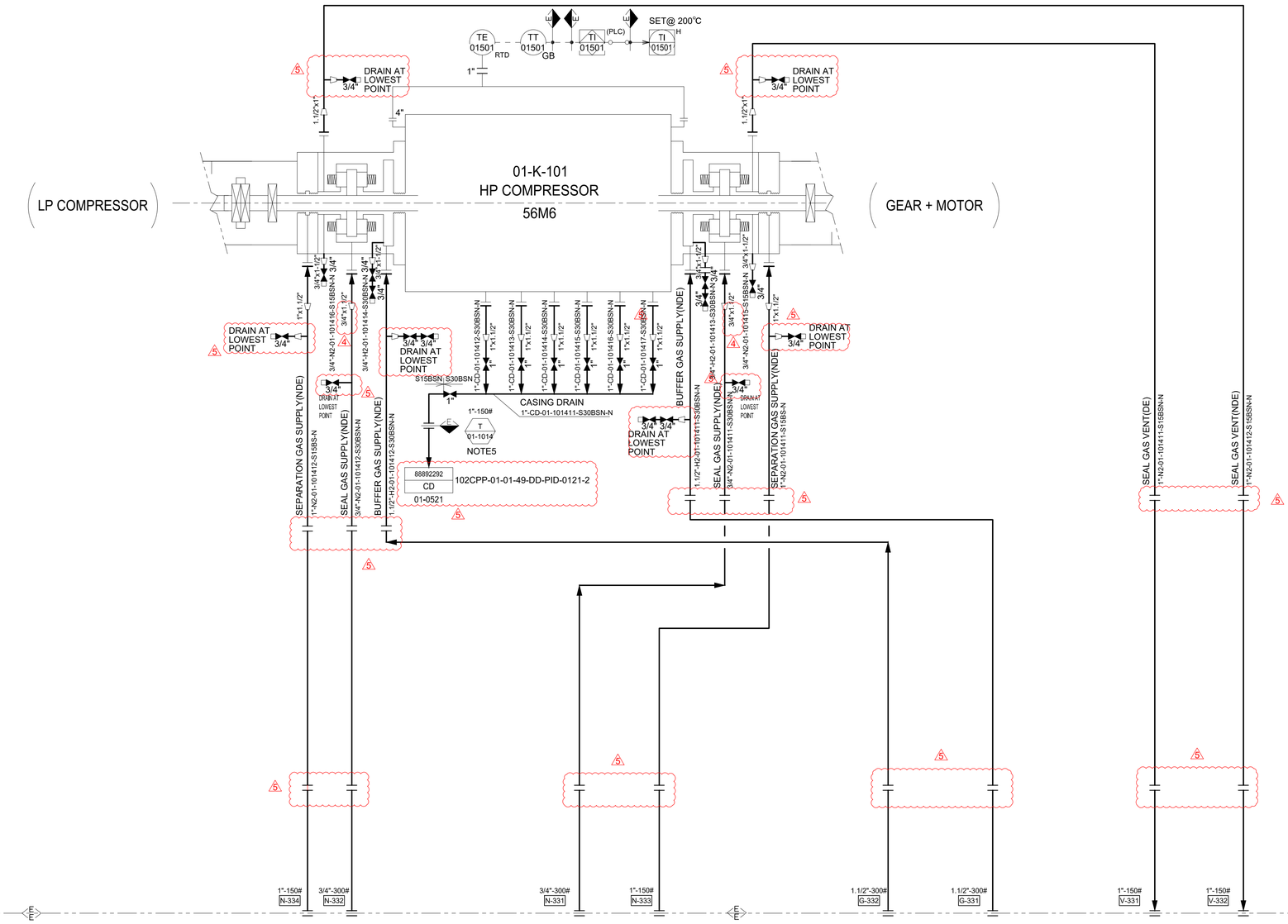
SCALE: 1:NTS — GENERATED BY: AutoCAD — SHEET 1 OF 2

ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Jan.31.'25	R.Y	VIJAY
2	REVISED	Apr.11.'25	R.Y	VIJAY
3	REVISED	Jul.18.'25	R.Y	VIJAY
4	REVISED	Sep.26.'25	R.Y	VIJAY
5	REVISED	Feb.02.'26	R.Y	VIJAY

JUNCTION BOX FOR TRANSMITTER
01-JB-A-01001-UCC

REFERENCE DRAWINGS ARE AS FOLLOWS :
1. P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)
2. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
3. P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101) : 23E033A001AAZCA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0003)
4. P&I FLOW SHEET FOR MMS (01-K-101) : 23E033A001AAZHA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0005)
5. P&I FLOW SHEET FOR DRY GAS SEAL PANEL (01-K-101) : 23E033A001AAZJA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0006)
6. P&I FLOW SHEET FOR OIL CONSOLE (01-K-101) : 23E033A001AAZKA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0007)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) :23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. P&ID-PROPANE DEHYDROGENATION UNIT DRY GAS SEAL PANEL FOR COMPRESSOR 01-K-101: 102CPP-01-01-49-DD-PID-0121-2



REFER P&I FLOW SHEET FOR
DRY GAS SEAL PANEL (01-K-101)
(05011-CPP-01-00-4V-PID-01-K-101-0006)

NOTES:

1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. PLEASE REFER TO P&I FLOW SHEET SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)FOR SYMBOLS AND LEGEND.
3. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT.
4. CUSTOMER INTERCONNECTING PIPING BETWEEN TWO OR MORE ELLIOTT CONNECTIONS SHALL BE SIZED, AS A MINIMUM, TO MATCH THE LARGER CONNECTION SIZE. WHERE A REDUCER IS NECESSARY, IT SHALL BE INSTALLED AS CLOSE TO THE SMALLER CONNECTION AS POSSIBLE.
5. COMPRESSOR CASING DRAIN SHALL BE TERMINATED AT SKID EDGE.

CUSTOMER CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
T-01-1014	CASING DRAIN	1"-150# ASME B16.5 RF

INTERNAL CONNECTION LIST

NUMBER	DESCRIPTION	FLANGE SIZE AND RATING
G-331	BUFFER GAS SUPPLY (DE)	11/2"-300# ASME B16.5 RF
G-332	BUFFER GAS SUPPLY (NDE)	11/2"-300# ASME B16.5 RF
N-331	SEAL GAS SUPPLY (DE)	3/4"-300# ASME B16.5 RF
N-332	SEAL GAS SUPPLY (NDE)	3/4"-300# ASME B16.5 RF
N-333	SEPARATION GAS SUPPLY (DE)	1"-150# ASME B16.5 RF
N-334	SEPARATION GAS SUPPLY (NDE)	1"-150# ASME B16.5 RF
V-331	SEAL GAS VENT(DE)	1"-150# ASME B16.5 RF
V-332	SEAL GAS VENT(NDE)	1"-150# ASME B16.5 RF

Ceyhan Polipropilen Üretim A.S.

CEYHAN PDH-PP PROJECT

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	01
REQUISITION FOR PURCHASE No.:	1041005011	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:
CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on after any contractual terms and conditions.

CONTRACTOR PROJECT No.:
A - REJECTED | B - REVIEWED WITH MAJOR COMMENTS | C- REVIEWED WITH MINOR COMMENTS | F - REVIEWED WITHOUT COMMENTS | I- FOR INFORMATION | M - VOID | R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.:	05011-CPP-01-00-4V-PID-01-K-101-0004	CONTRACTOR/ EMPLOYER REV:	04

VENDOR NAME / LOGO

DOCUMENT TITLE: P&I FLOW SHEET (COMPRESSOR BUFFER GAS)

CODE: DIA-0001 | VENDOR DOCUMENT No: 23E033A001AAZDA0YA0-CKYN | REV: 5

		DISTRIBUTION	SET	DISTRIBUTION	SET
APP'D BY	Mmm.dd.'yy	CUSTOMER	E	811-2	2C
APP'D BY VIJAY	Mmm.dd.'yy				
DSN'D BY D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY ANNAM	Mmm.dd.'yy				
DRW'N BY HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL
to maintain shipping promise. Once approved print must be returned by: Feb.16.'26

☐ FOR RECORD
Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By: D.TAKAHASHI | By:
Date: Feb.02.'26 | Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

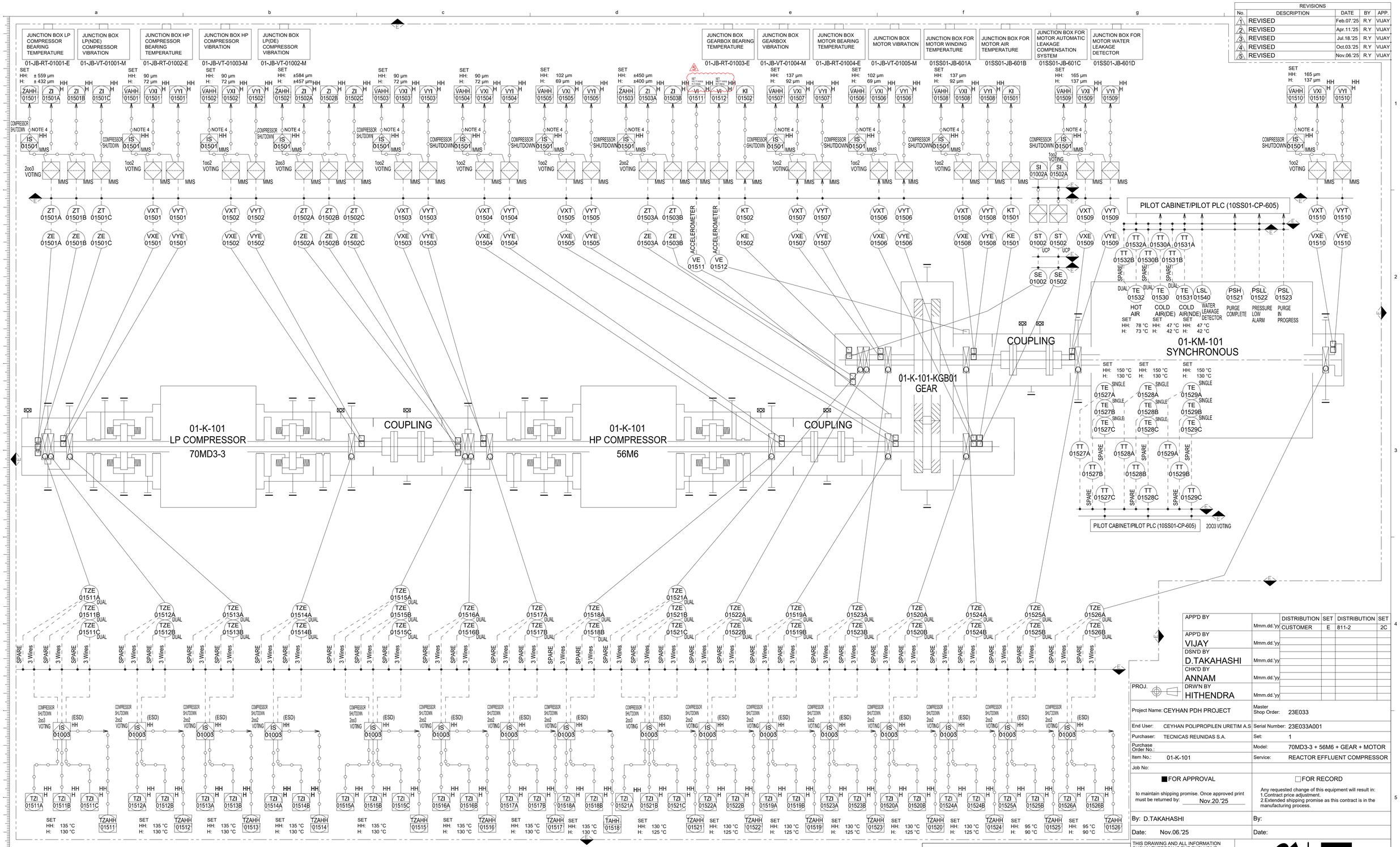
P&I FLOW SHEET FOR
COMPRESSOR SEAL GAS (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZDA0YA0-CKYN/2	5

SCALE: 1:NTS | GENERATED BY: AutoCAD | SHEET 2 OF 2

ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Feb.07.'25	R.Y	VIJAY
2	REVISED	Apr.11.'25	R.Y	VIJAY
3	REVISED	Jul.18.'25	R.Y	VIJAY
4	REVISED	Oct.03.'25	R.Y	VIJAY
5	REVISED	Nov.06.'25	R.Y	VIJAY



NOTES:

1. INSTRUMENT TAG NUMBER SAMPLE OR ALL INSTRUMENTATION PREFIXED BY UNIT CODE (01).
2. PLEASE REFER TO P&I FLOW SHEET SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)FOR SYMBOLS AND LEGEND.
3. COMPANION FLANGE, GASKETS,BOLTS/NUTS FOR ALL PURCHASER CONNECTION ARE NOT FURNISHED BY ELLIOTT
4. ONE COMMON TRIP SIGNAL (01-XZX-01545) FROM MMS WILL BE HARDWIRED TO ESD FOR VIBRATION SIGNALS. FOR MORE DETAILS REFER CONTROL PANEL PID.

REFERENCE DRAWINGS ARE AS FOLLOWS :

1. P&I FLOW SHEET FOR SYMBOL AND LEGEND (01-K-101) : 23E033A001AAZAA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0001)
2. P&I FLOW SHEET FOR PROCESS (01-K-101) : 23E033A001AAZBA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0002)
3. P&I FLOW SHEET FOR MAIN SKID LUBE OIL (01-K-101) : 23E033A001AAZCA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0003)
4. P&I FLOW SHEET FOR COMPRESSOR SEAL GAS (01-K-101) : 23E033A001AAZDA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0004)
5. P&I FLOW SHEET FOR DRY GAS SEAL PANEL (01-K-101) : 23E033A001AAZJA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0006)
6. P&I FLOW SHEET FOR OIL CONSOLE (01-K-101) : 23E033A001AAZKA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0007)
7. P&I FLOW SHEET FOR CONTROL PANEL (01-K-101) :23E033A001AAZIA0YA0-CKYN (05011-CPP-01-00-4V-PID-01-K-101-0008)
8. IO LIST (01-K-101) : 23E033A001AAATA0NA0-CNNN (05011-CPP-01-00-4V-TRM-01-K-101-0001)

TECNICAS REUNIDAS	Ceyhan Polipropilen Üretim A.S.	RÖNESANS HOLDING / Şişecam / sonatrech	
CEYHAN PDH-PP PROJECT			
CONTRACTOR PROJECT No.: 10410	CONTRACTOR UNIT: 01		
REQUISITION FOR PURCHASE No.: 1041005011	EQUIPMENT TAG. 01-K-101		

REVIEW RESPONSE BY CONTRACTOR:

CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:

- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BUILT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.: 05011-CPP-01-00-4V-PID-01-K-101-0005 | CONTRACTOR/ EMPLOYER REV: 01

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE: P&I FLOW SHEET (MACHINE MONITORING SYSTEM)

CODE: DIA-0001 | VENDOR DOCUMENT No: 23E033A001AAZHA0YA0-CKYN | REV: 5

APP'D BY	Mmm.dd.'yy	DISTRIBUTION	SET	DISTRIBUTION	SET
		CUSTOMER	E	811-2	2C
APP'D BY VIJAY	Mmm.dd.'yy				
DSN'D BY D.TAKAHASHI	Mmm.dd.'yy				
CHK'D BY ANNAM	Mmm.dd.'yy				
DRW'N BY HITHENDRA	Mmm.dd.'yy				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL

to maintain shipping promise. Once approved print must be returned by: Nov.20.'25

☐ FOR RECORD

Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By: D.TAKAHASHI | By:

Date: Nov.06.'25 | Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

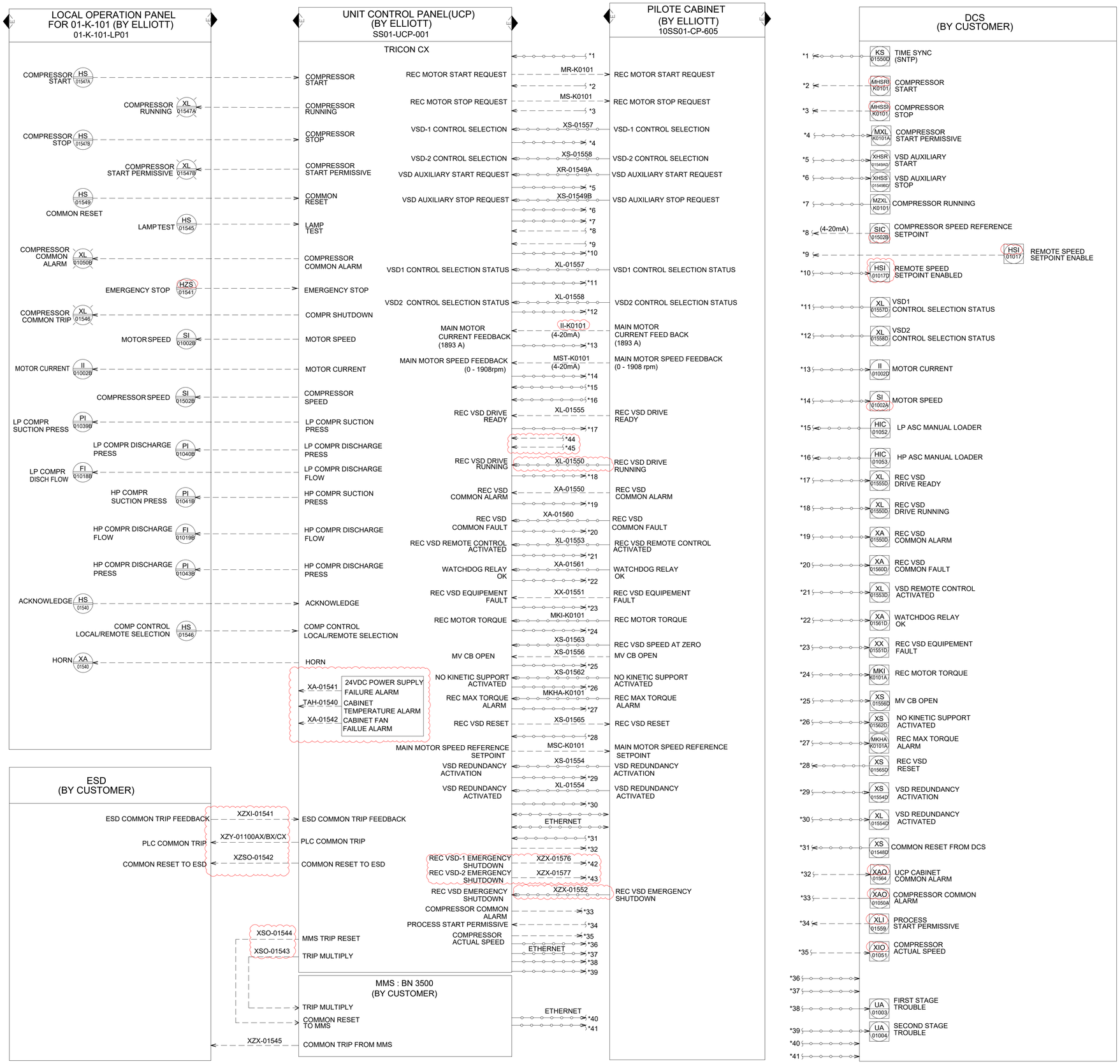
P&I FLOW SHEET FOR MMS (01-K-101)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZHA0YA0-CKYN	5

SCALE: 1:NTS | GENERATED BY: AutoCAD | SHEET 1 OF 1

ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Mar.18.25	S.K	M.P
2	REVISED	Jun.12.25	S.K	M.P
3	REVISED	Nov.17.'25	S.K	M.P
4	REVISED	Jan.28.'26	S.K	M.P



NOTE:

1. INSTRUMENT TAG NUMBER SAMPLE FOR ALL INSTRUMENTATION PREFIXED BY "01".
2. PLEASE REFER TO P&ID (05011-CPP-01-00-4V-PID-01-K-101-0001) FOR SYMBOLS AND LEGENDS.
3. PLEASE REFER 'MODBUS LIST (01-K-101)' DOCUMENT FOR ALL THE COMMUNICATION RELATED SIGNALS.

Ceyhan Polipropilen Üretim A.S.

CEYHAN PDH-PP PROJECT

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	
REQUISITION FOR PURCHASE No.:	10ZCPP-00-00-45R-BB-K-0001	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:

CONTRACTOR review and commentes do not indicate either responsibility or liability for accuracy and completeness of this document on alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:

- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BUILT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.: | CONTRACTOR/ EMPLOYER REV:

VENDOR NAME / LOGO

DOCUMENT TITLE: P&I FLOW SHEET (CONTROL PANEL)

CODE: | VENDOR DOCUMENT No: 23E033A001AAZIA0YA0-CKYN | REV: 2

APP'D BY	DISTRIBUTION	SET	DISTRIBUTION	SET
	CUSTOMER	E	2424A	2C
APP'D BY VIJAY				
DSN'D BY D.TAKAHASHI				
CHK'D BY ANNAM				
DRW'N BY HITHENDRA				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S.	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL

to maintain shipping promise. Once approved print must be returned by: Feb.11.'26

☐ FOR RECORD

Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By: SURIYA | By:

Date: Jan.28.'26 | Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

EBARA ELLIOTT ENERGY

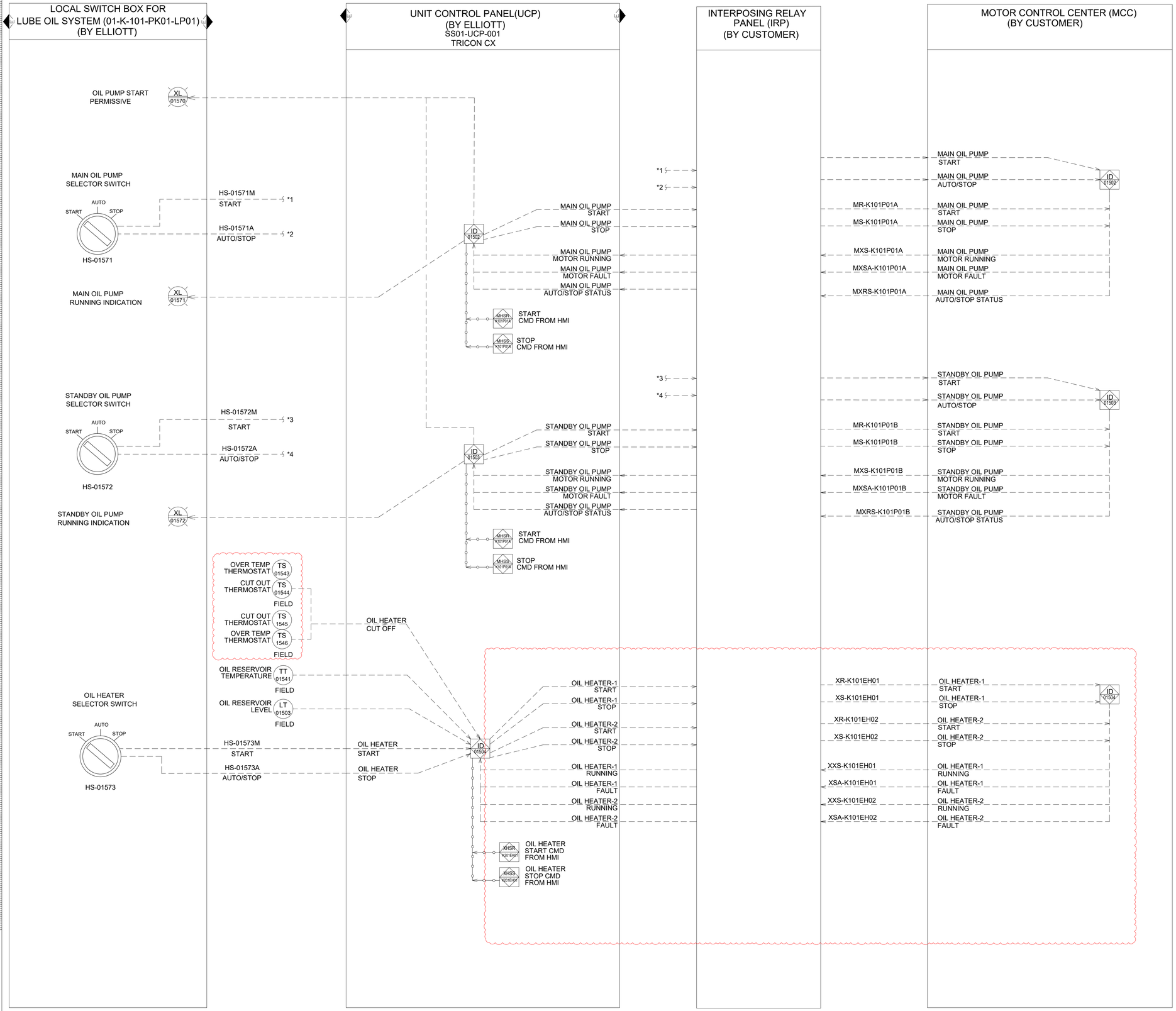
P&ID FLOW SHEET
(CONTROL PANEL-1/2)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZIA0YA0-CKYN	4

SCALE: 1:NTS | GENERATED BY: AutoCAD | SHEET 1 OF 2

ELEC1

REVISIONS				
No.	DESCRIPTION	DATE	BY	APP.
1	REVISED	Mar.18.25	S.K	M.P
2	REVISED	Jun.12.25	S.K	M.P
3	REVISED	Nov.17.'25	S.K	M.P
4	REVISED	Jan.28.'26	S.K	M.P



NOTE:

1. INSTRUMENT TAG NUMBER SAMPLE FOR ALL INSTRUMENTATION PREFIXED BY "01".
2. PLEASE REFER TO P&ID (05011-CPP-01-00-4V-PID-01-K-101-0001) FOR SYMBOLS AND LEGENDS.

Ceyhan Polipropilen Üretim A.S.

CEYHAN PDH-PP PROJECT

CONTRACTOR PROJECT No.:	10410	CONTRACTOR UNIT:	
REQUISITION FOR PURCHASE No.:	102CPP-00-00-45R-BB-K-0001	EQUIPMENT TAG.	01-K-101

REVIEW RESPONSE BY CONTRACTOR:

CONTRACTOR review and commentes do not indicate either responsibifity or liability for accuracy and completeness of this document on alter any contractual terms and conditions.

CONTRACTOR PROJECT No.:

- A - REJECTED
- B - REVIEWED WITH MAJOR COMMENTS
- C- REVIEWED WITH MINOR COMMENTS
- F - REVIEWED WITHOUT COMMENTS
- I- FOR INFORMATION
- M - VOID
- R - AS BULT

REVIEW DATE:

CONTRACTOR/EMPLOYER DOCUMENT No.: | CONTRACTOR/ EMPLOYER REV:

VENDOR NAME / LOGO: EBARA ELLIOTT ENERGY

DOCUMENT TITLE: P&I FLOW SHEET (CONTROL PANEL)

CODE: | VENDOR DOCUMENT No: 23E033A001AAZIA0YA0-CKYN | REV: 2

APP'D BY	DISTRIBUTION CUSTOMER	SET E	DISTRIBUTION 2424A	SET 2C
APP'D BY VIJAY				
DSN'D BY D.TAKAHASHI				
CHK'D BY ANNAM				
DRW'N BY HITHENDRA				

PROJ.

Project Name:	CEYHAN PDH PROJECT	Master Shop Order:	23E033
End User:	CEYHAN POLIPROPILEN URETIM A.S.	Serial Number:	23E033A001
Purchaser:	TECNICAS REUNIDAS S.A.	Set:	1
Purchase Order No.:		Model:	70MD3-3 + 56M6 + GEAR + MOTOR
Item No.:	01-K-101	Service:	REACTOR EFFLUENT COMPRESSOR
Job No:			

■ FOR APPROVAL

to maintain shipping promise. Once approved print must be returned by: Feb.11.'26

By: SURIYA

Date: Jan.28.'26

☐ FOR RECORD

Any requested change of this equipment will result in:
1.Contract price adjustment.
2.Extended shipping promise as this contract is in the manufacturing process.

By:

Date:

THIS DRAWING AND ALL INFORMATION SHOWN THEREON IS THE EXCLUSIVE PROPERTY OF EBARA ELLIOTT TURBOMACHINERY CORPORATION AND IS PROVIDED SUBJECT TO THE EXPRESS CONDITION THAT THE DRAWING IS NOT TO BE REPRODUCED IN WHOLE OR IN PART, OR USED FOR THE BENEFIT OF ANYONE OTHER THAN EBARA ELLIOTT TURBOMACHINERY CORPORATION AND NO INFORMATION SHOWN IN THIS DRAWING MAY BE DISCLOSED OR USED IN ANY WAY.

EBARA ELLIOTT ENERGY

© 2024 EBARA ELLIOTT TURBOMACHINERY CORPORATION

P&ID FLOW SHEET
(CONTROL PANEL-2/2)

SIZE	PROJECT:		REV
A1	23E033	23E033A001AAZIA0YA0-CKYN	4

SCALE: 1:NTS | GENERATED BY: AutoCAD | SHEET 2 OF 2

ELEC1