



# ASPC Project



<b>END CUSTOMER</b>	: Arya Sasol Polymer Company
<b>CONTRACTOR</b>	: DYPNF Co., Ltd.
<b>VENDOR NAME</b>	: Airpack Netherlands BV
<b>EQUIPMENT DESCRIPTION</b>	: Screw Compressor & Roots Blower
<b>PURCHASE ORDER NUMBER</b>	: PO-PC2312-08

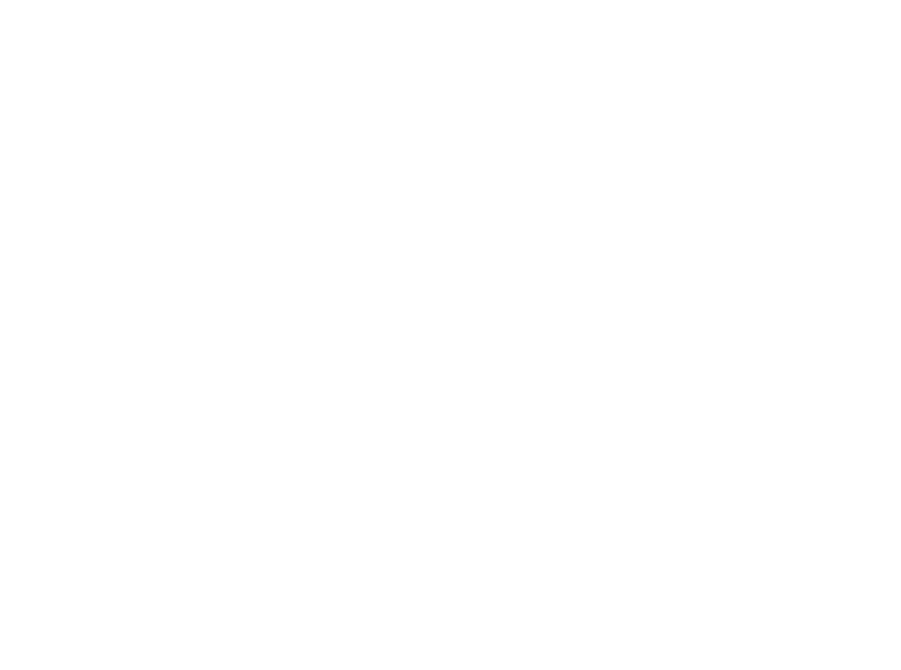
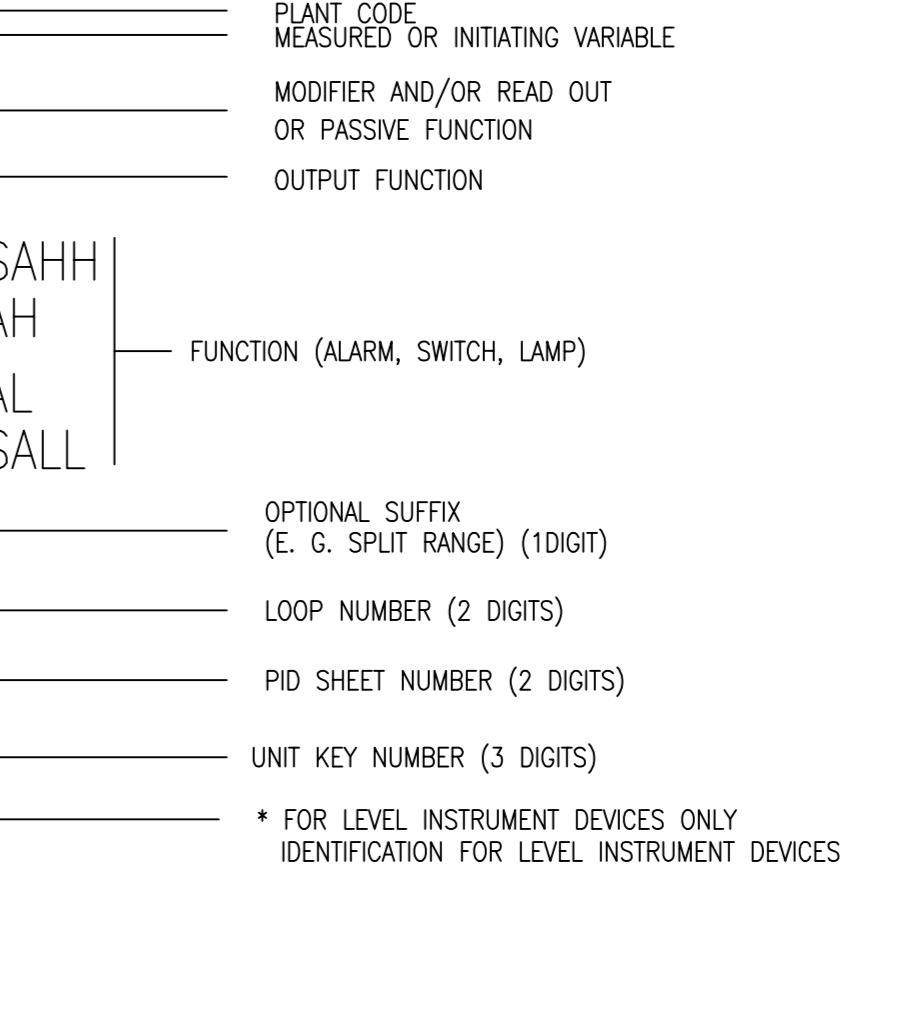
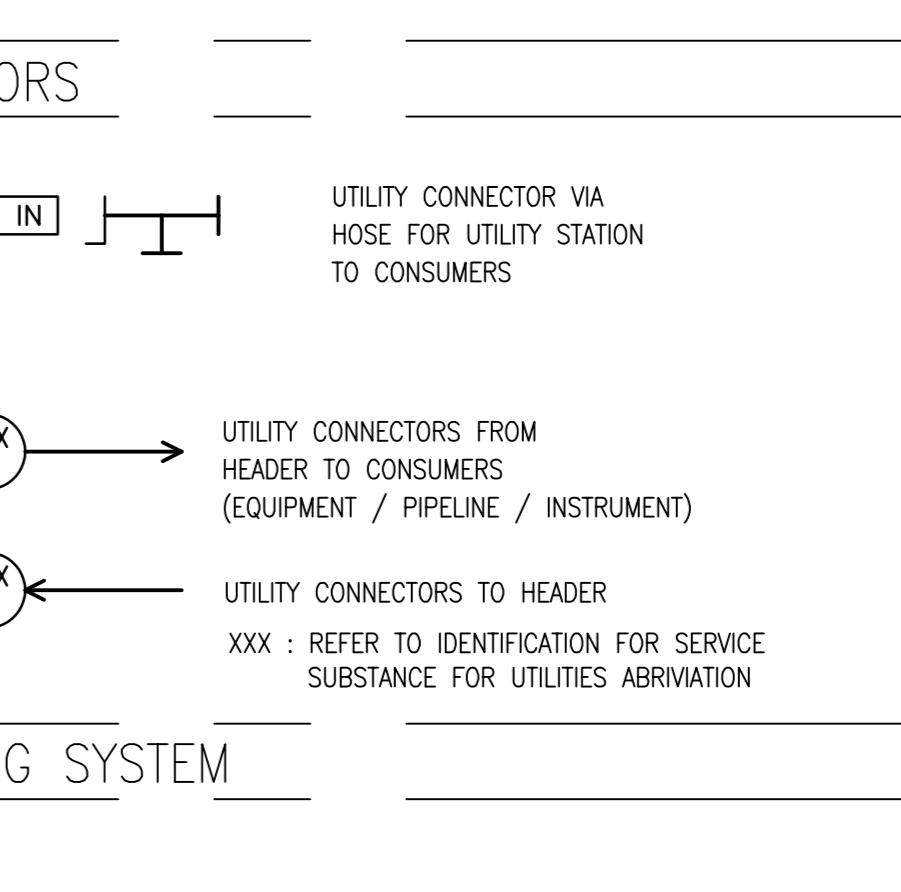
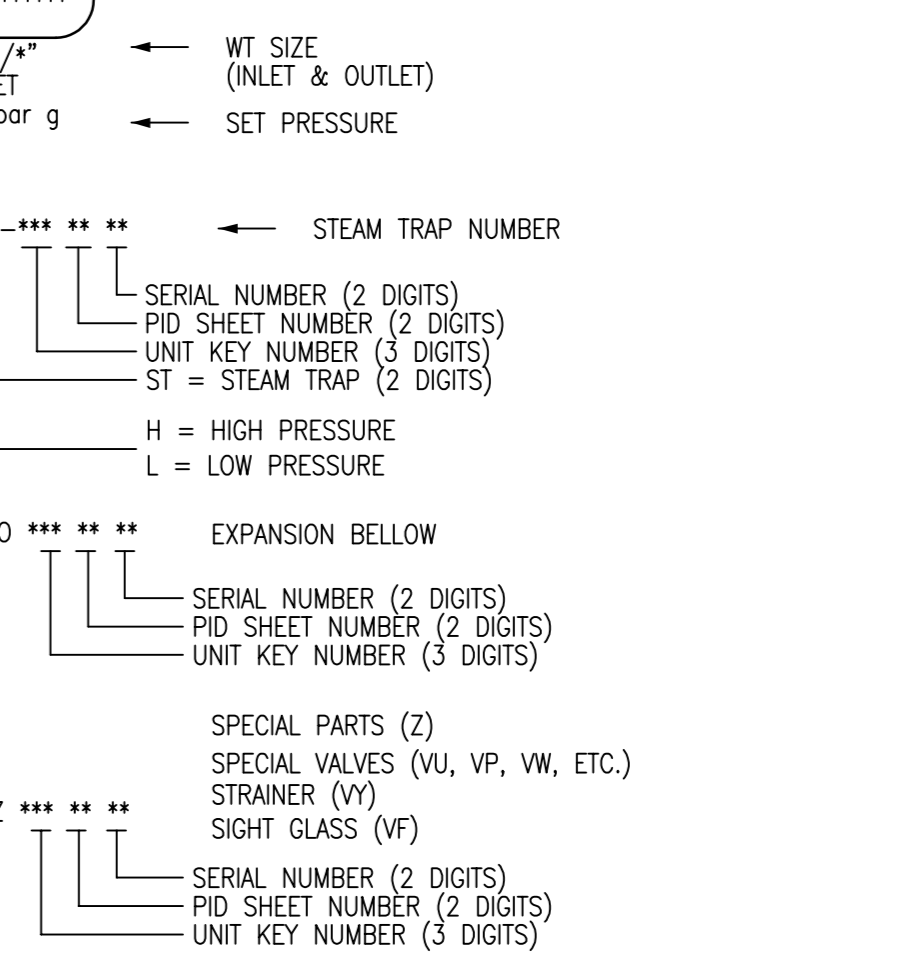
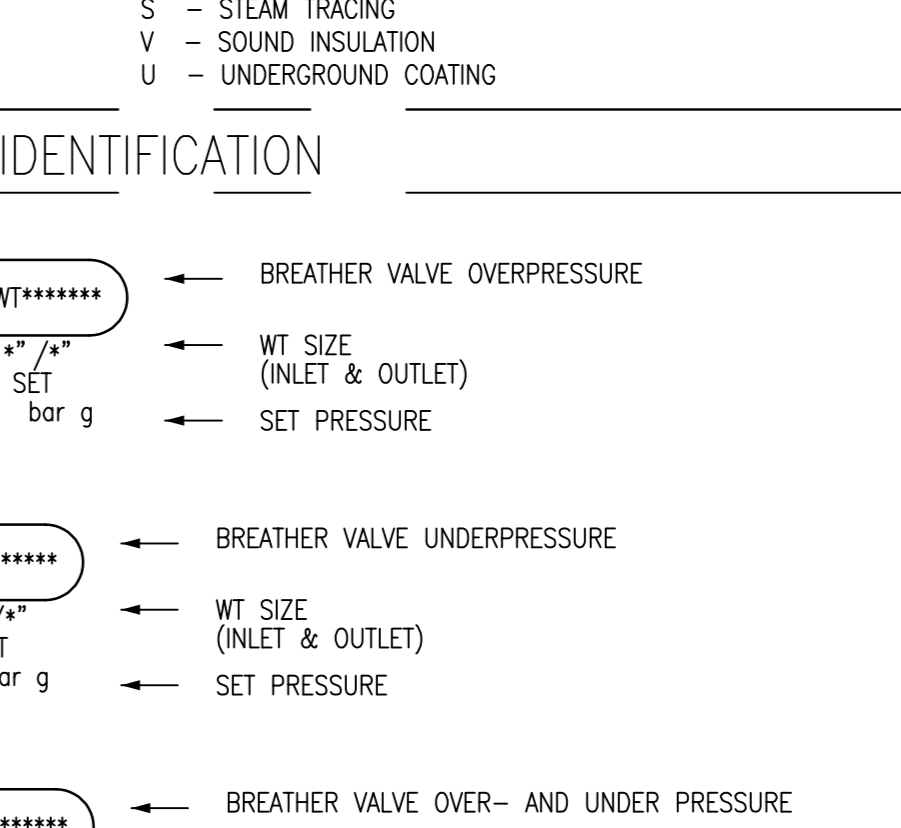
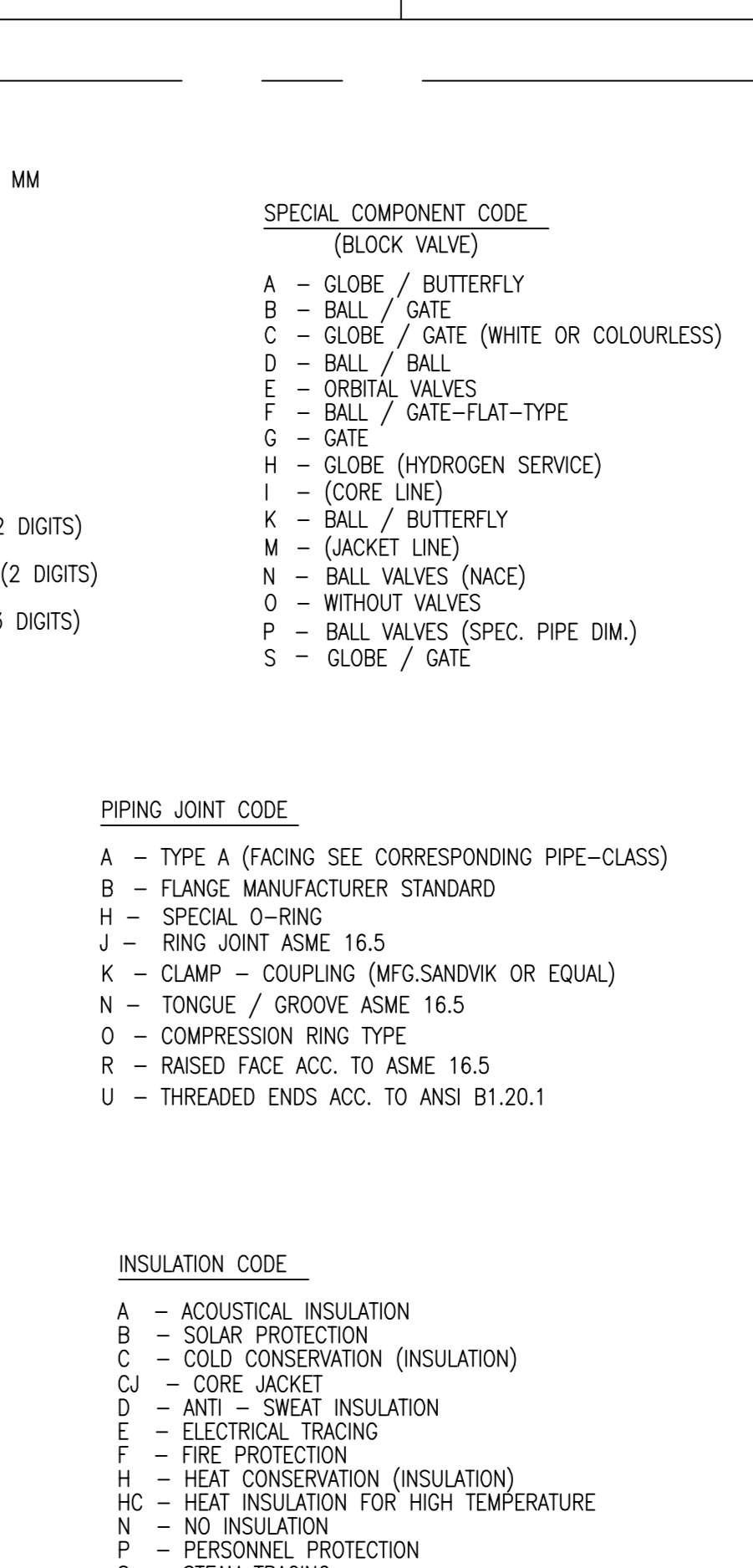
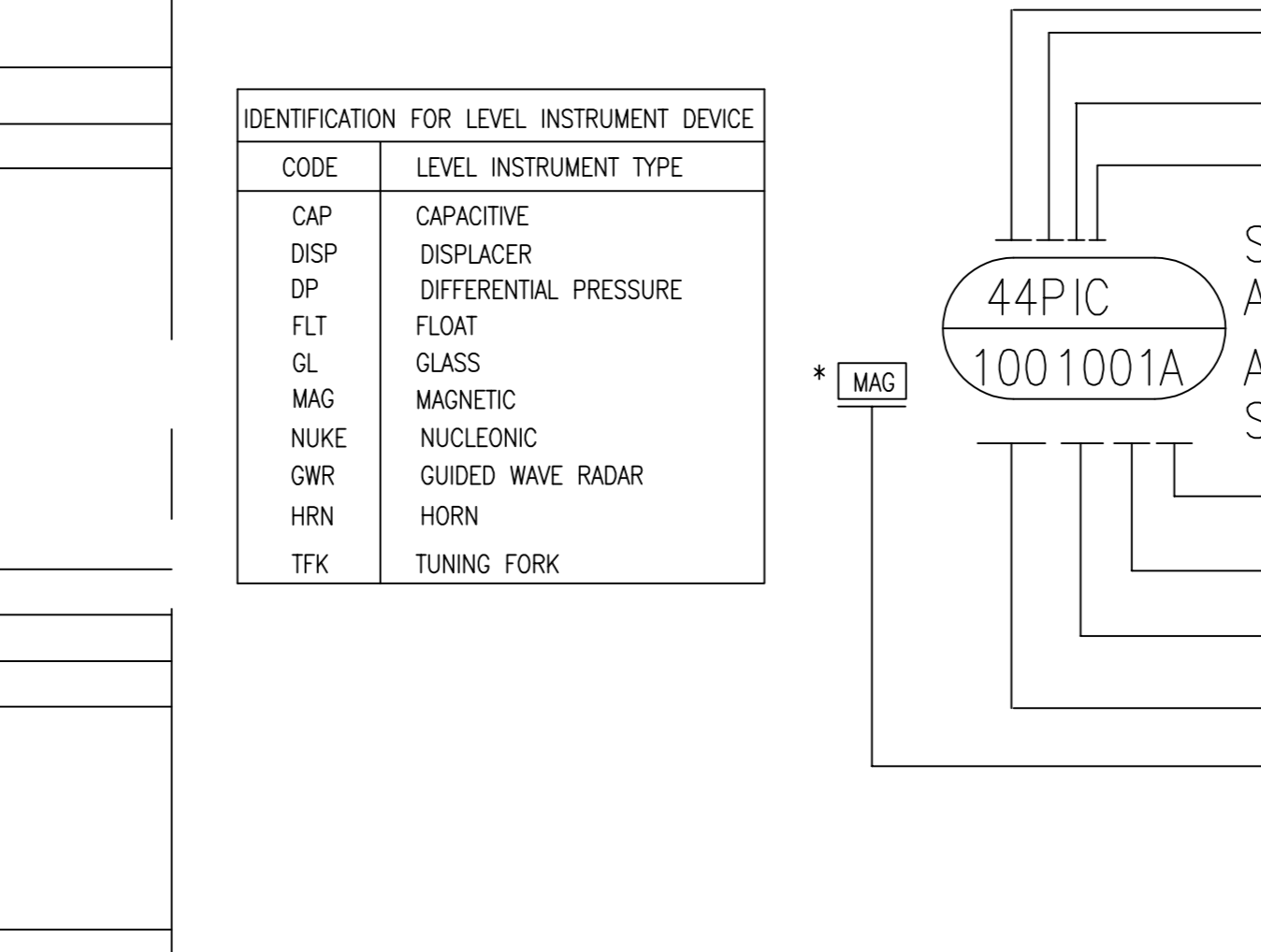
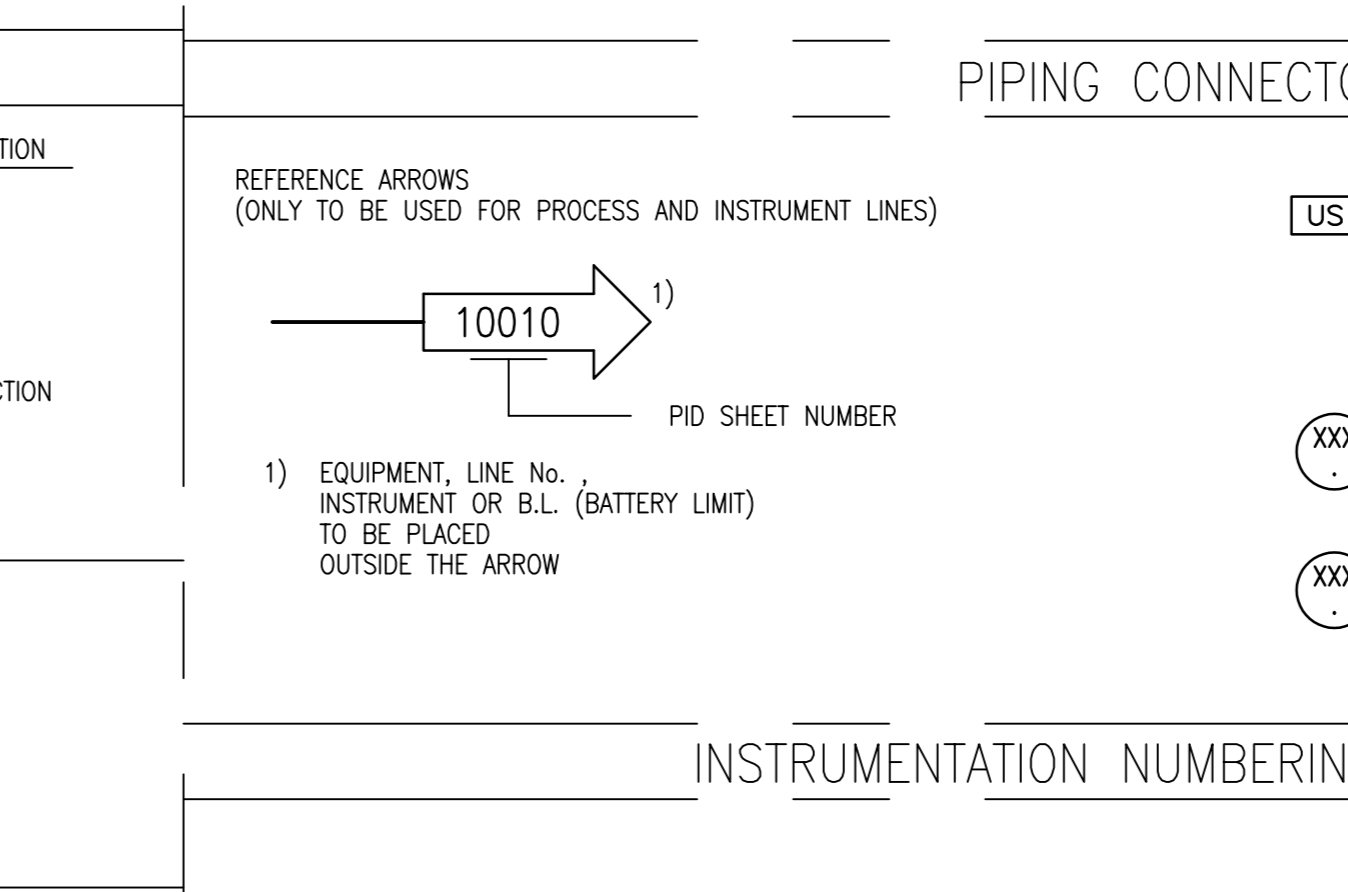
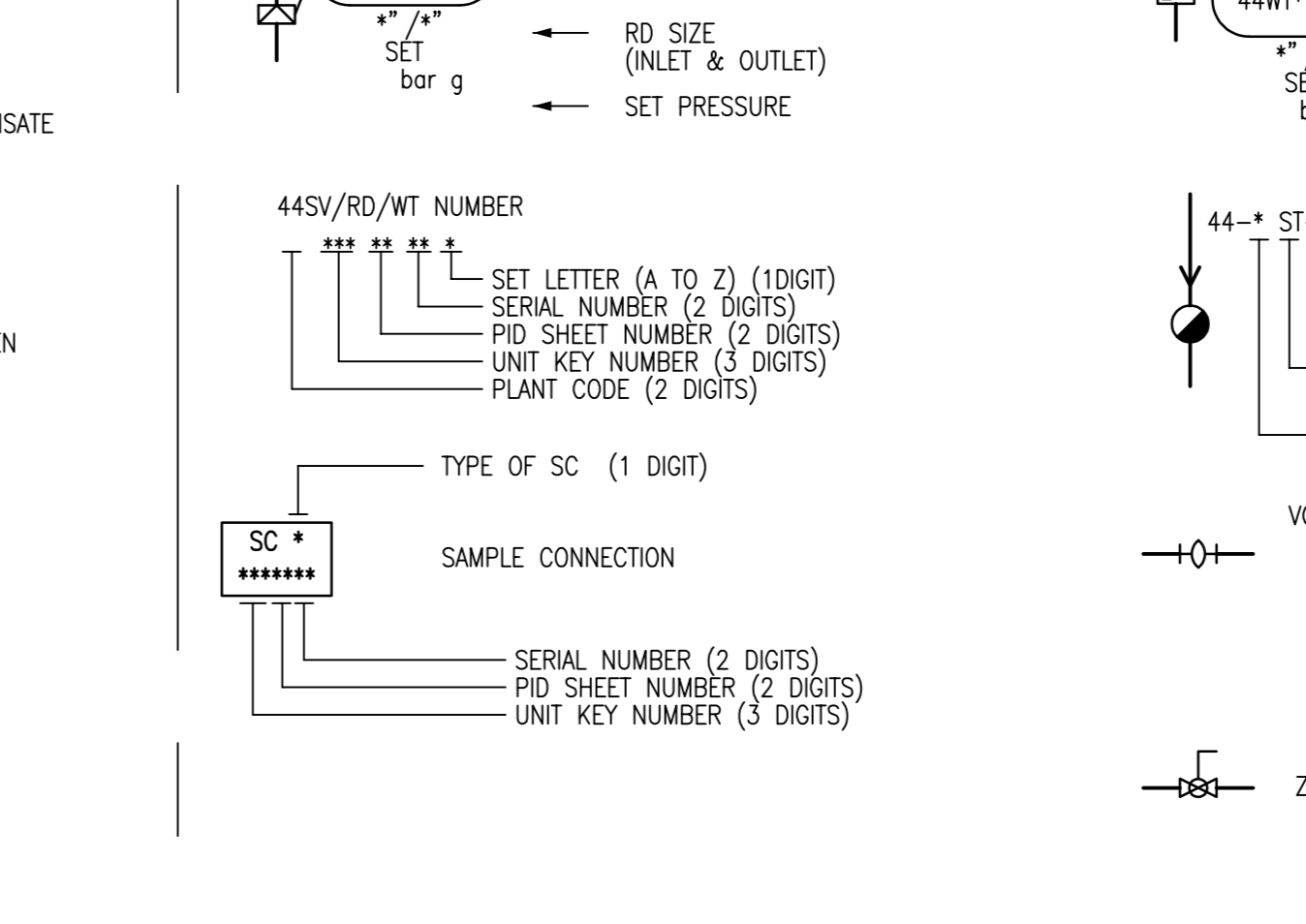
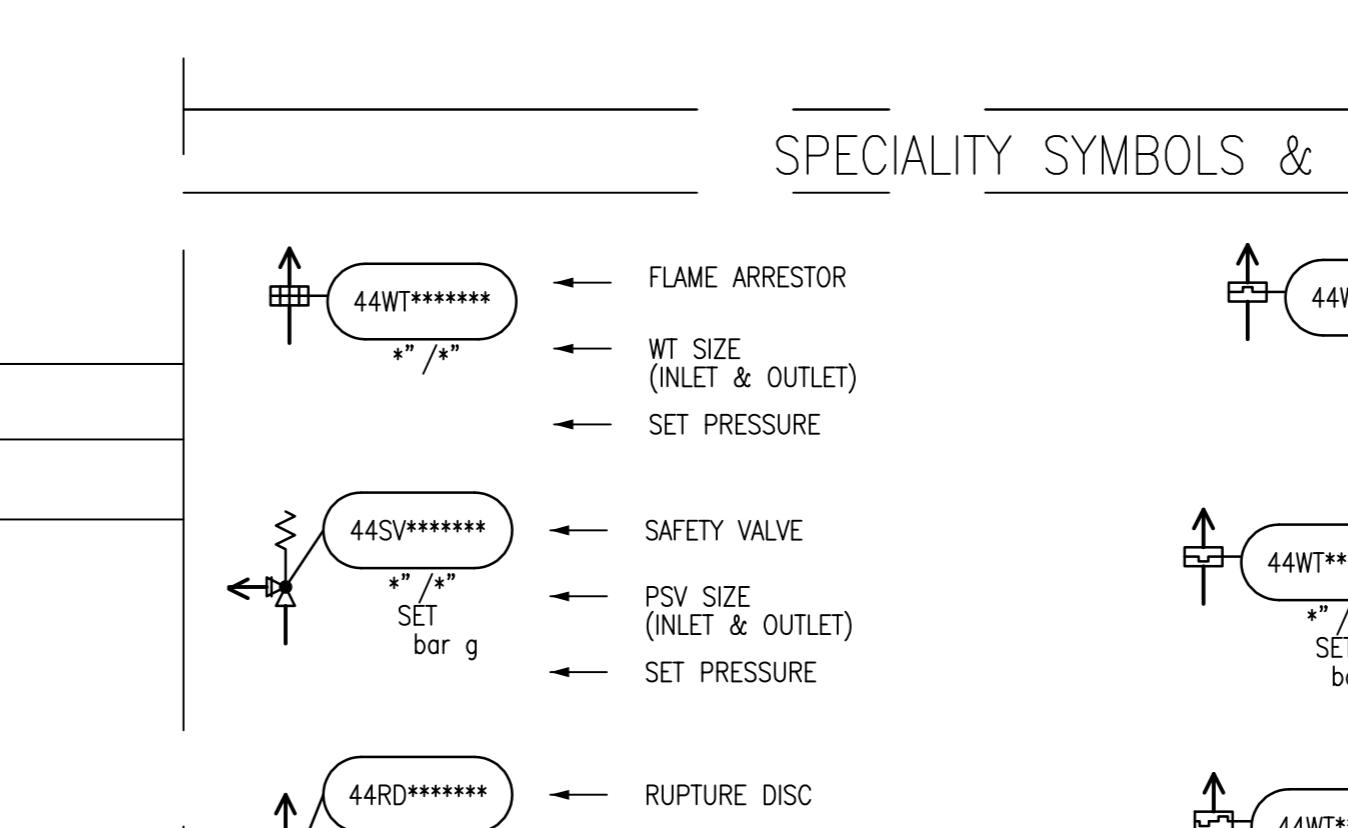
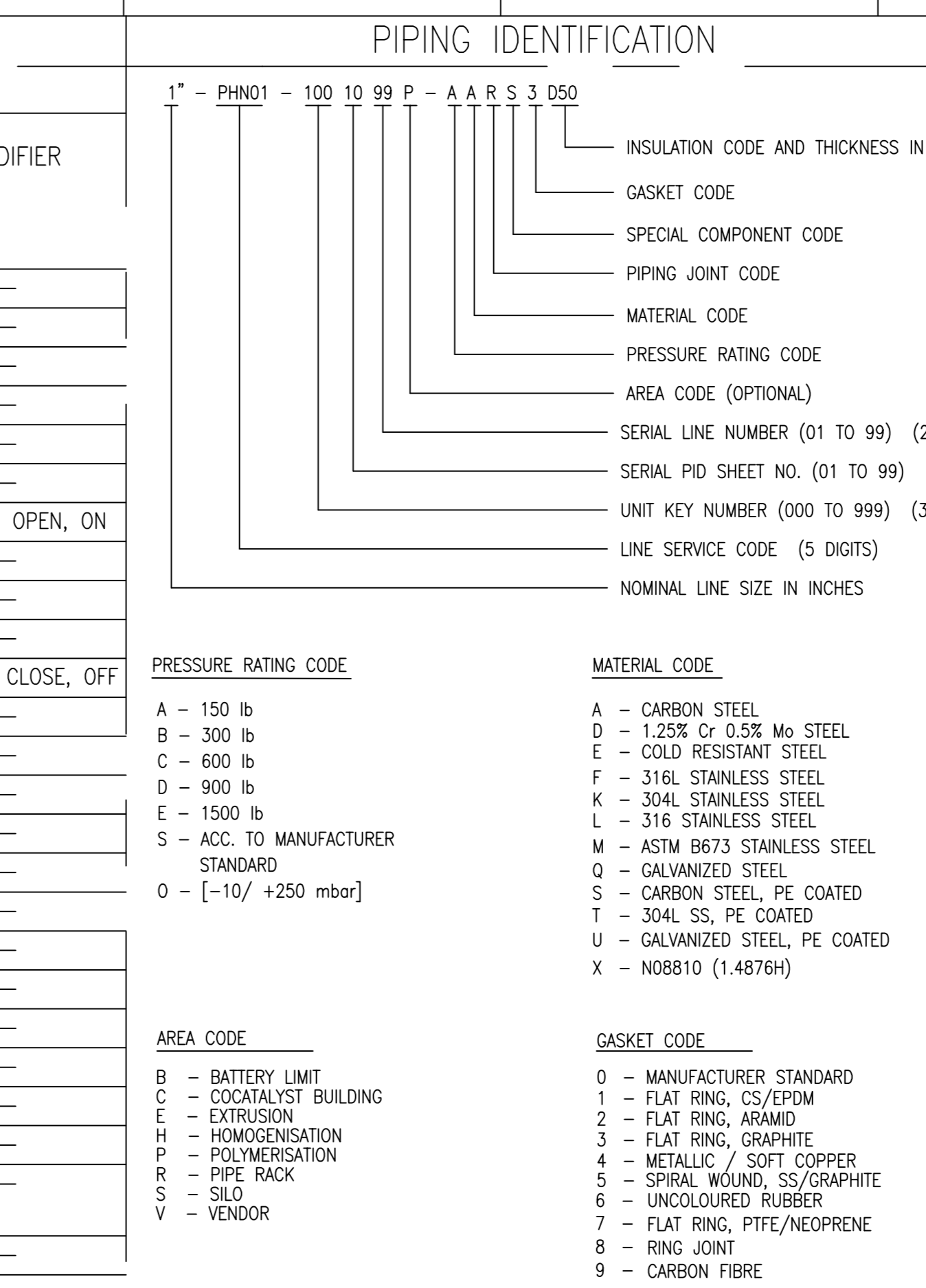
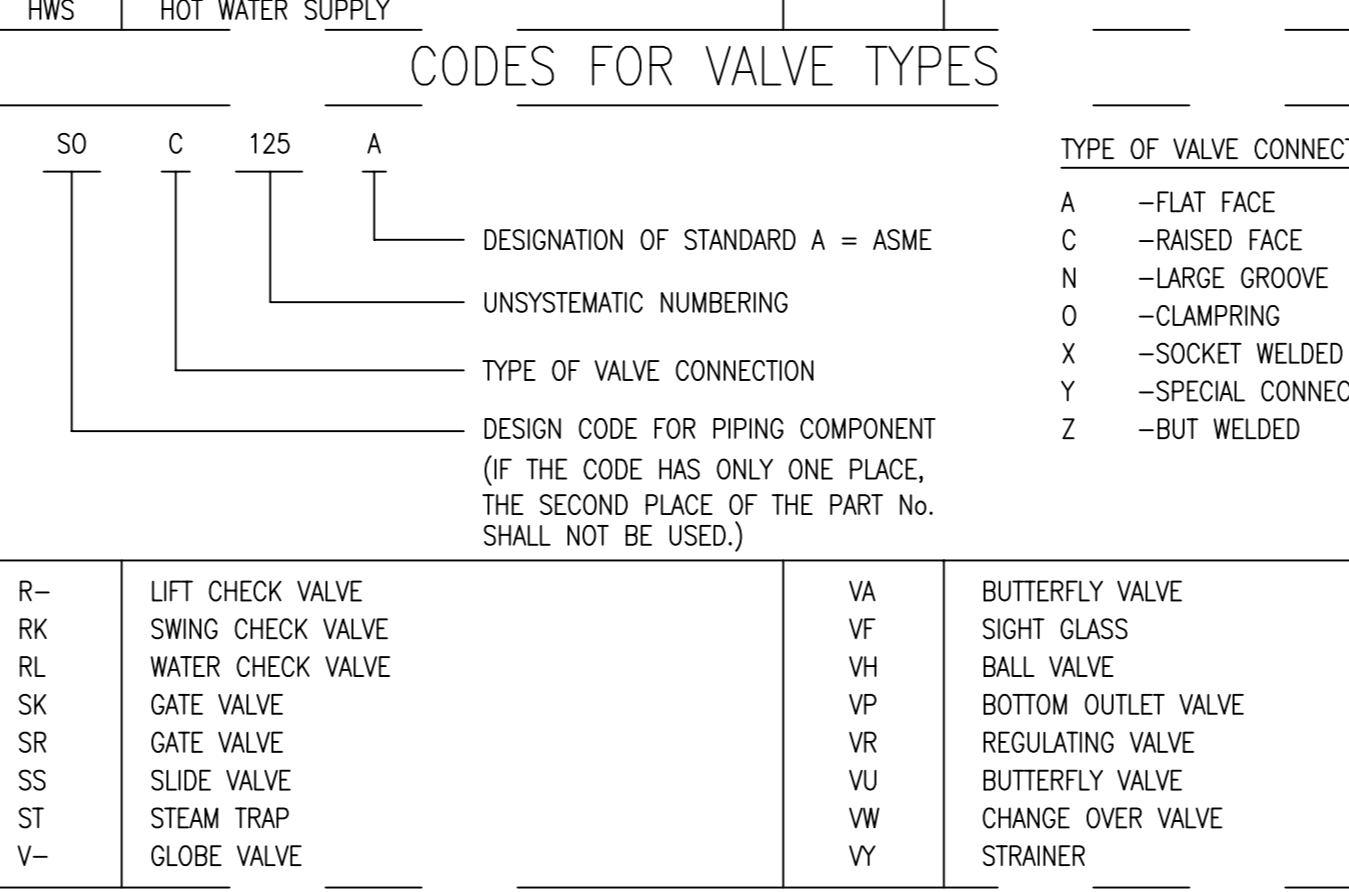
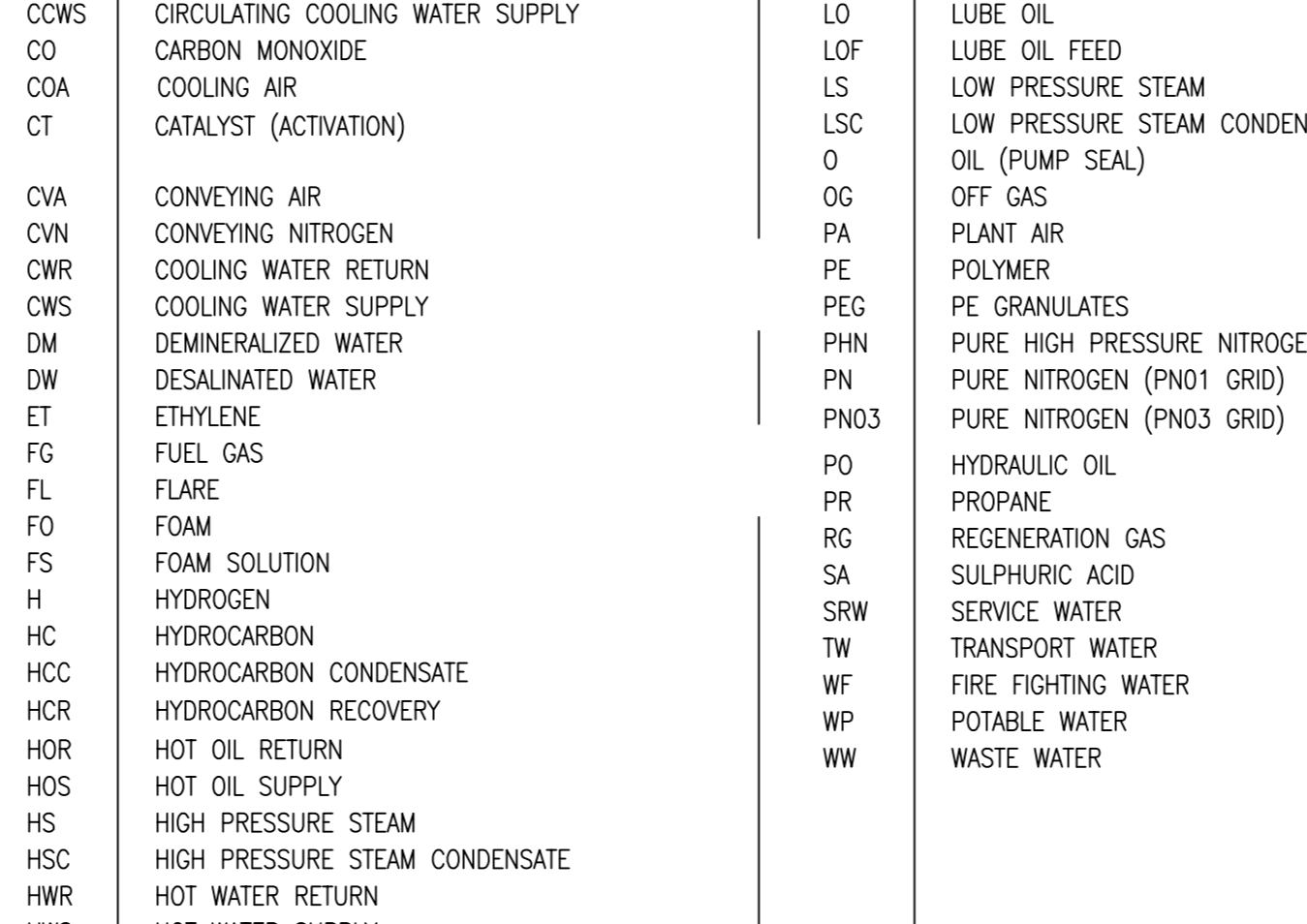
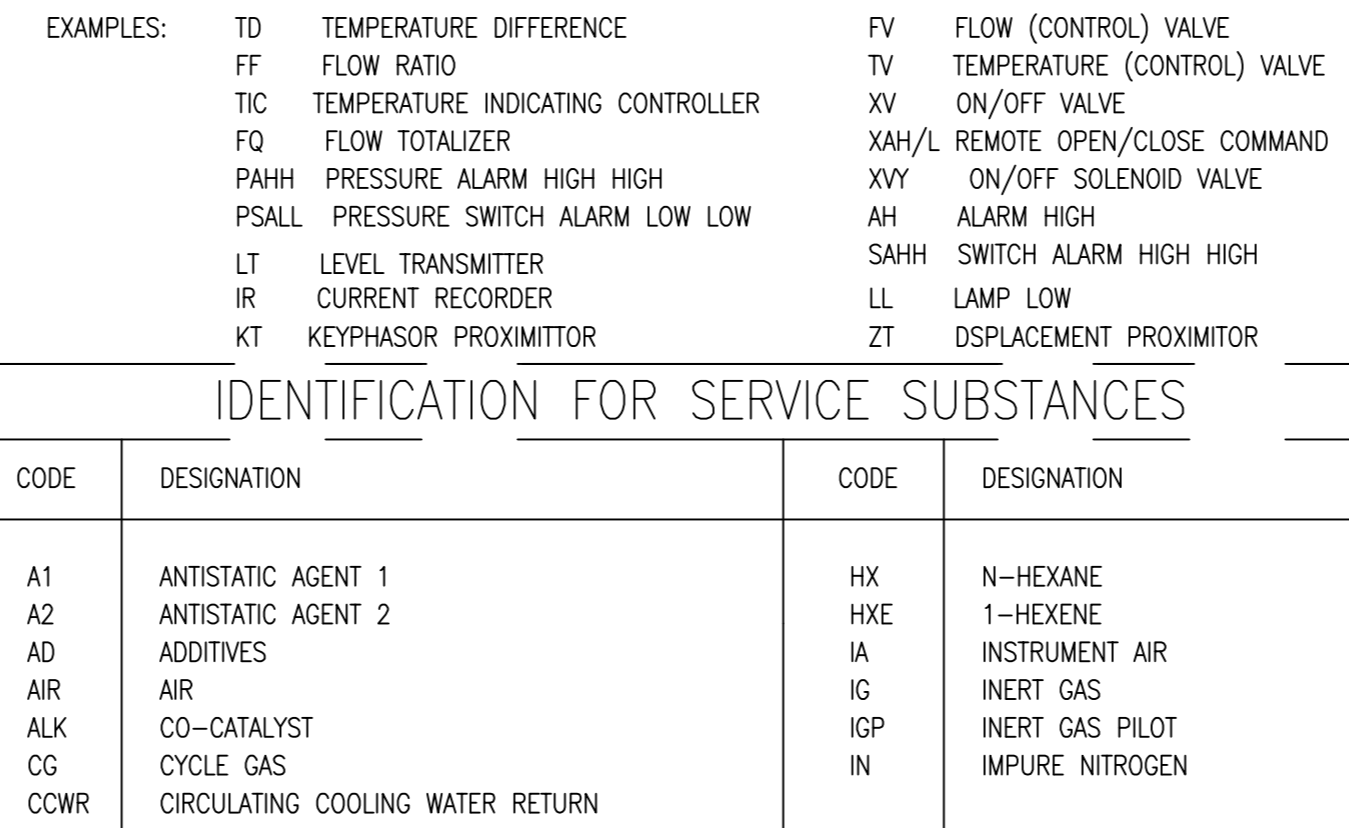
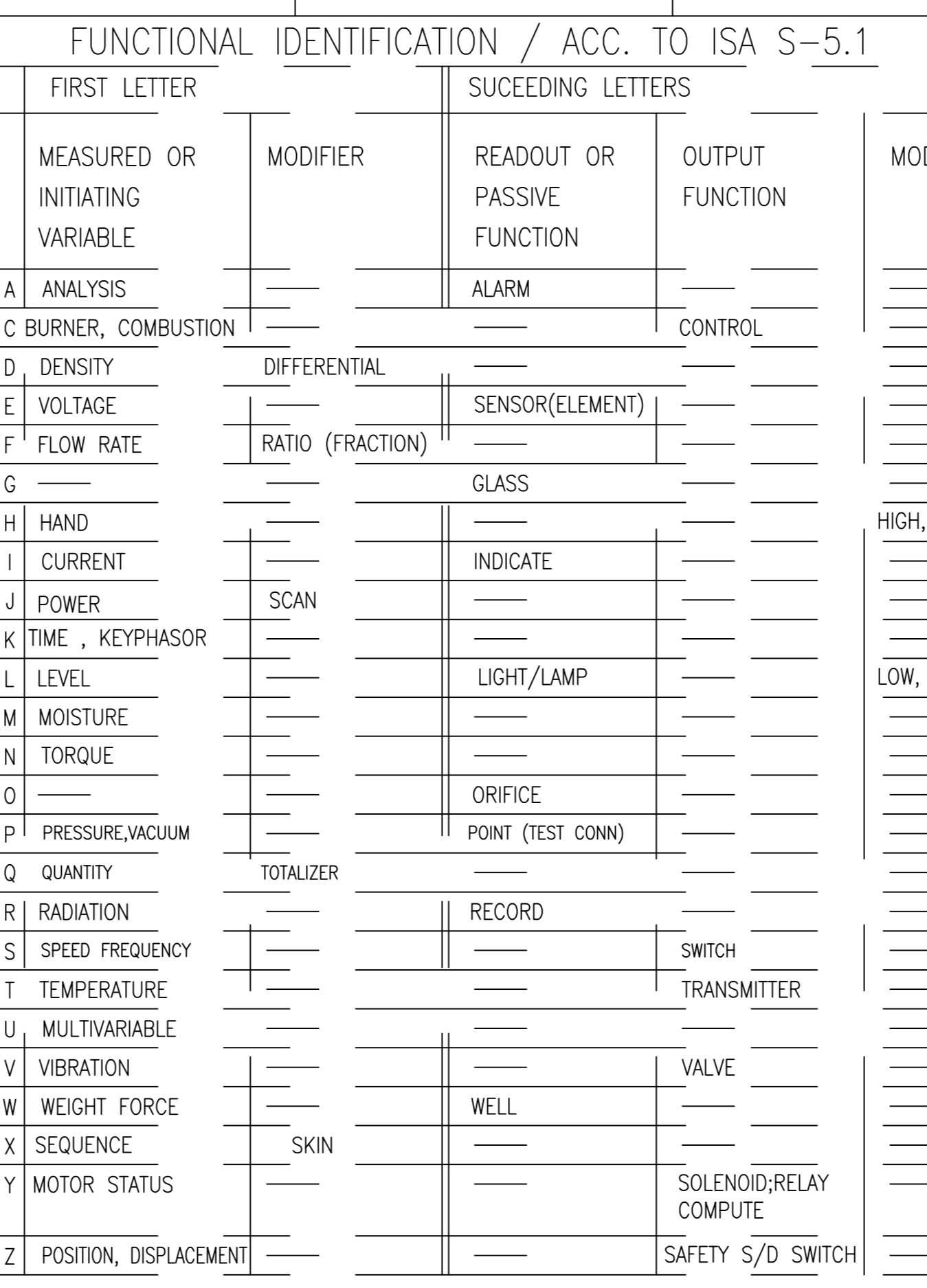
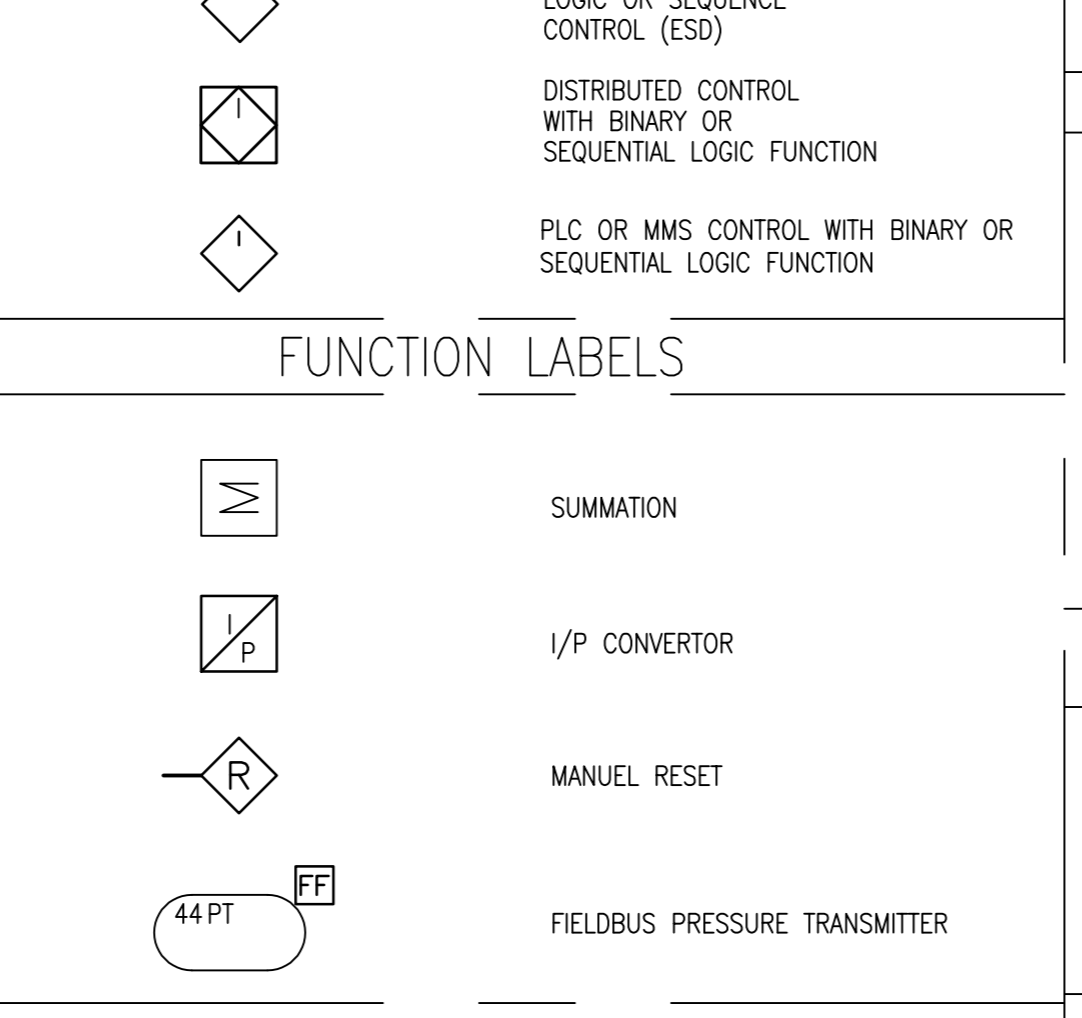
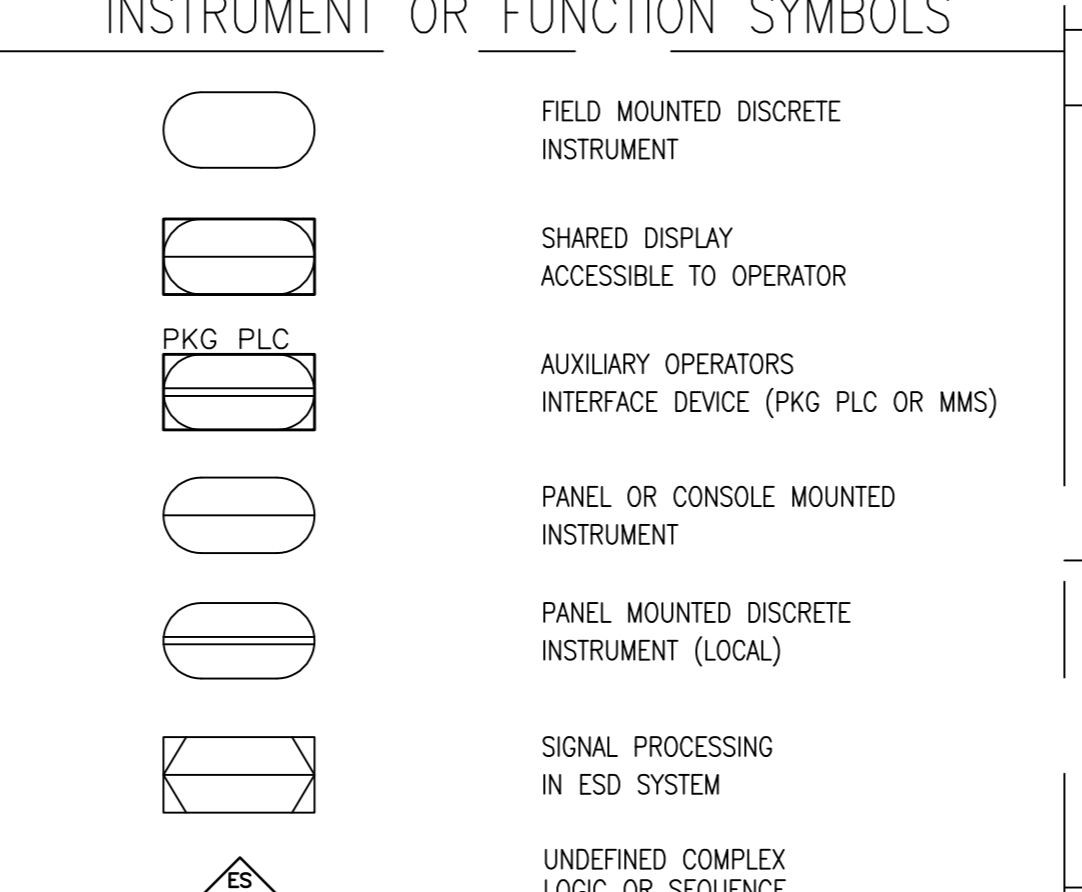
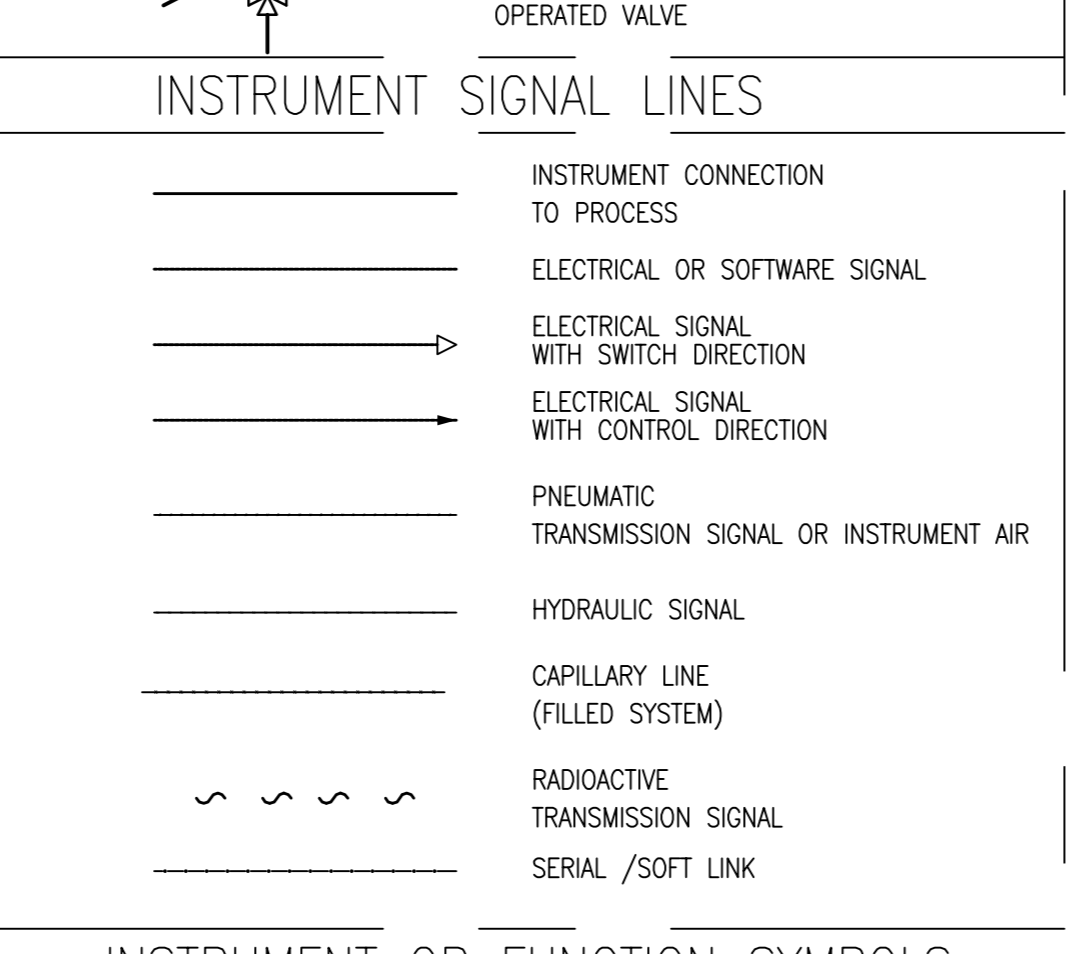
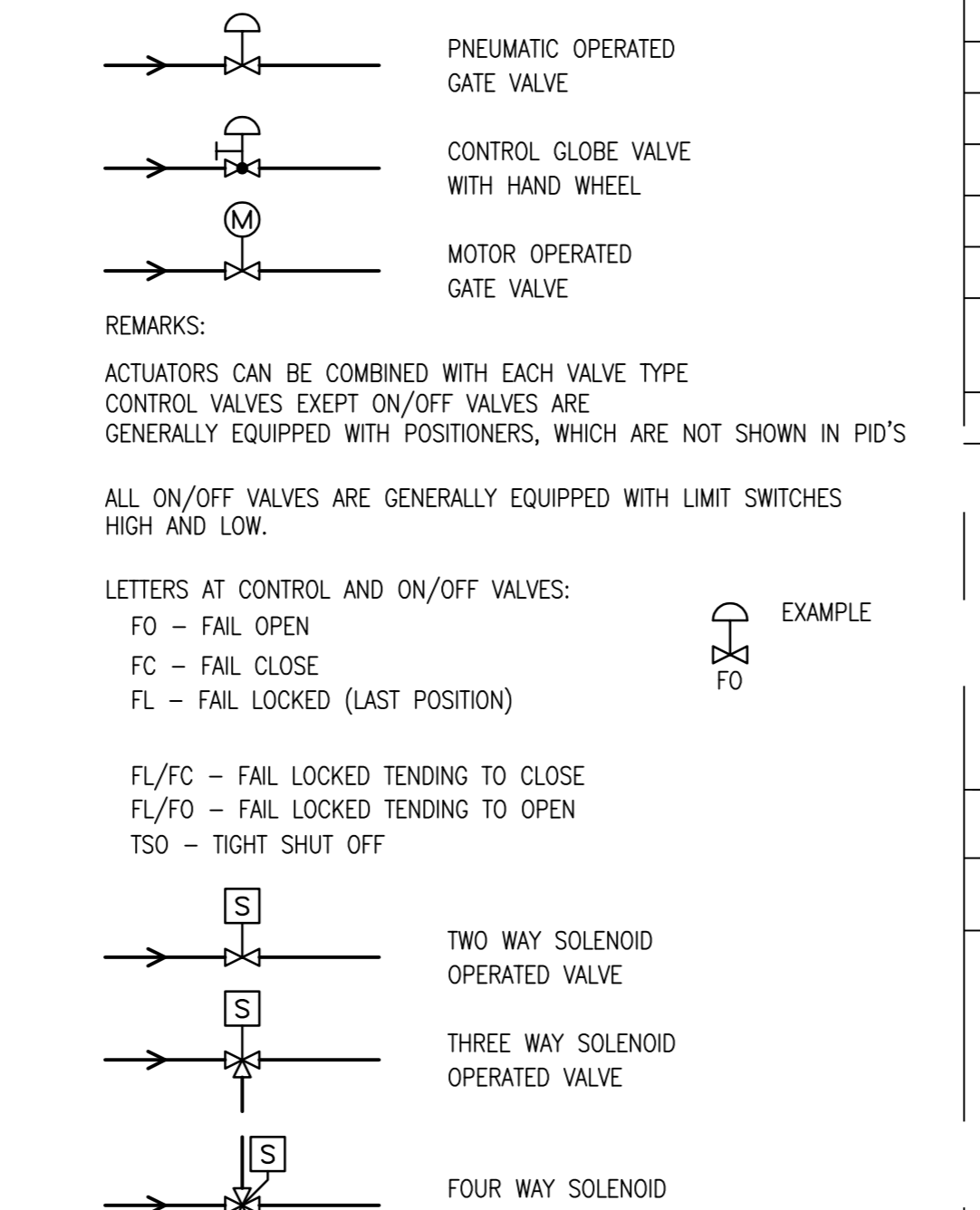
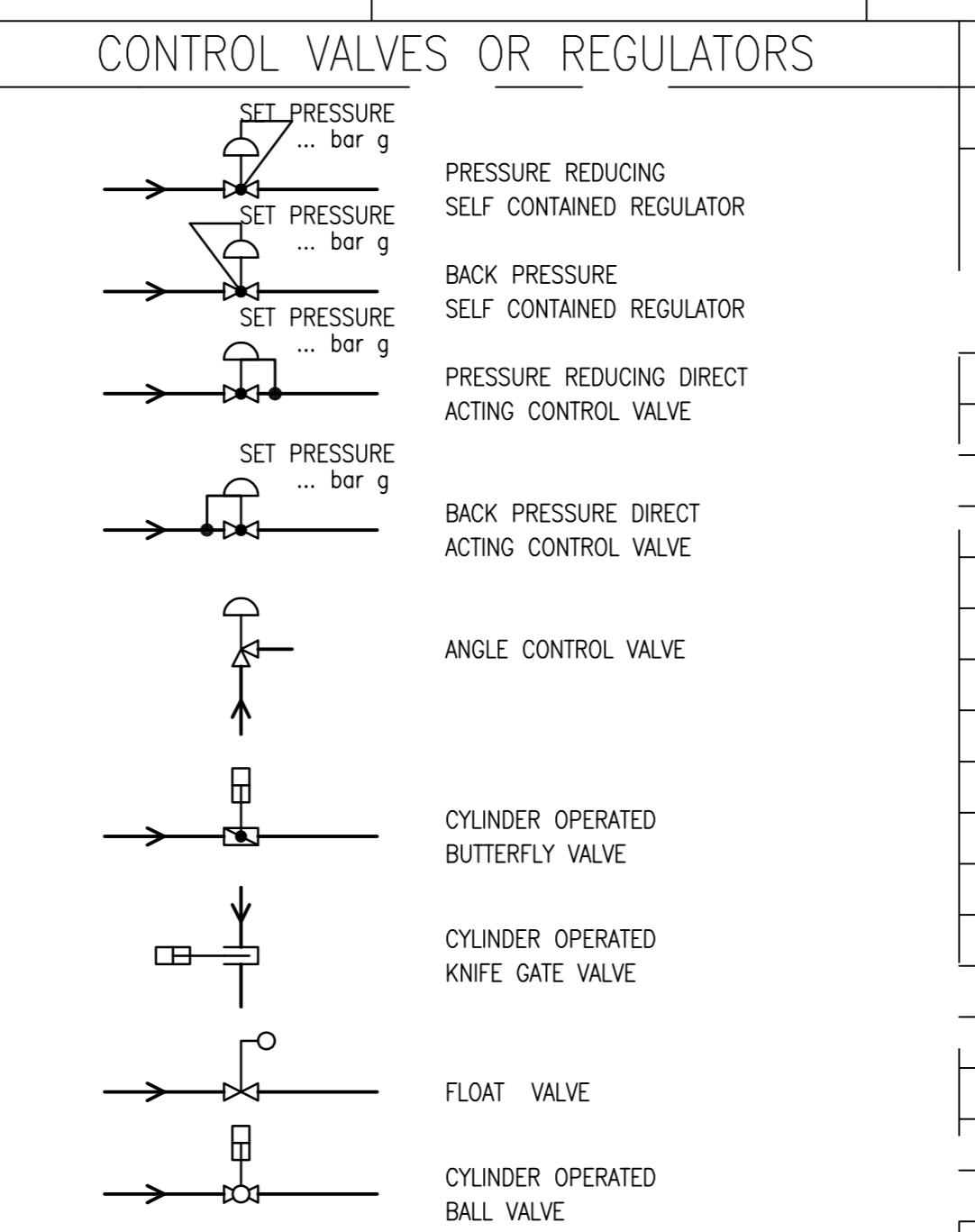
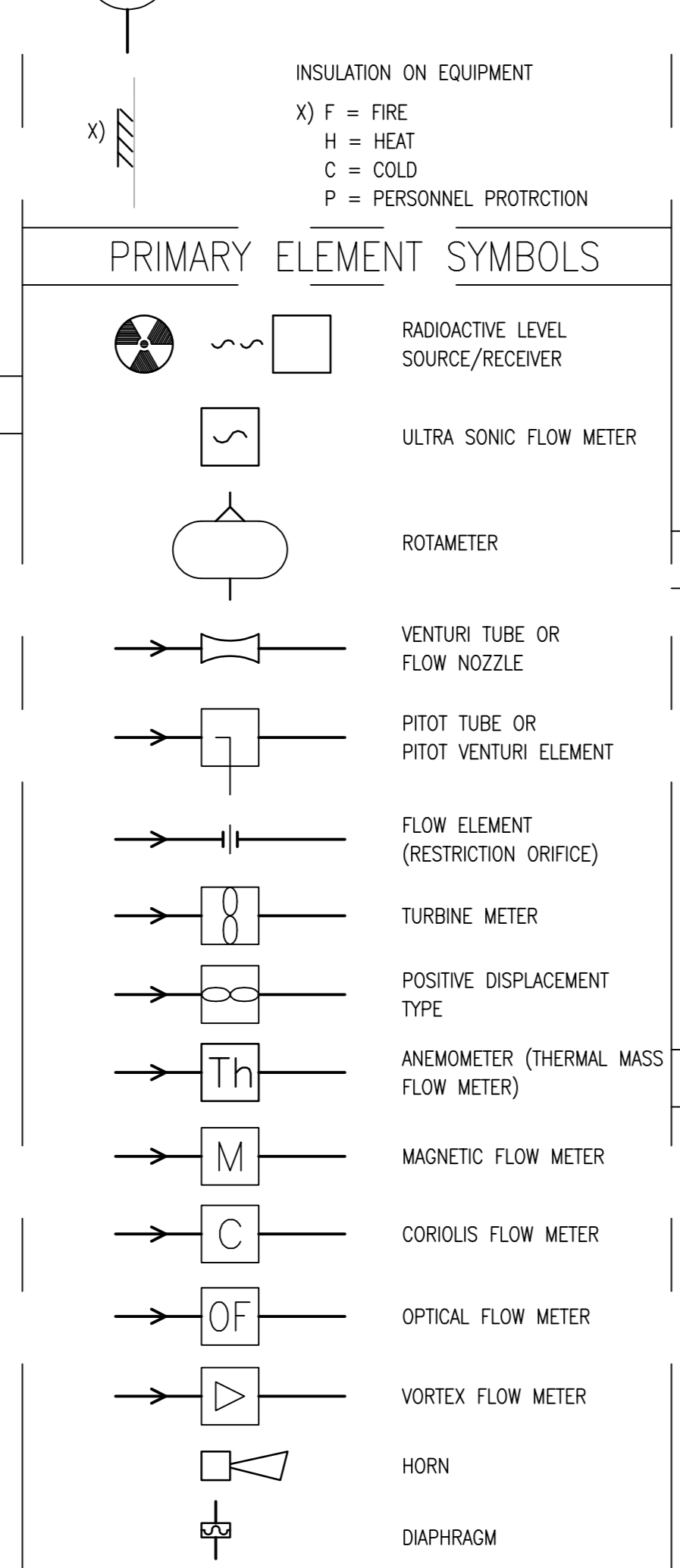
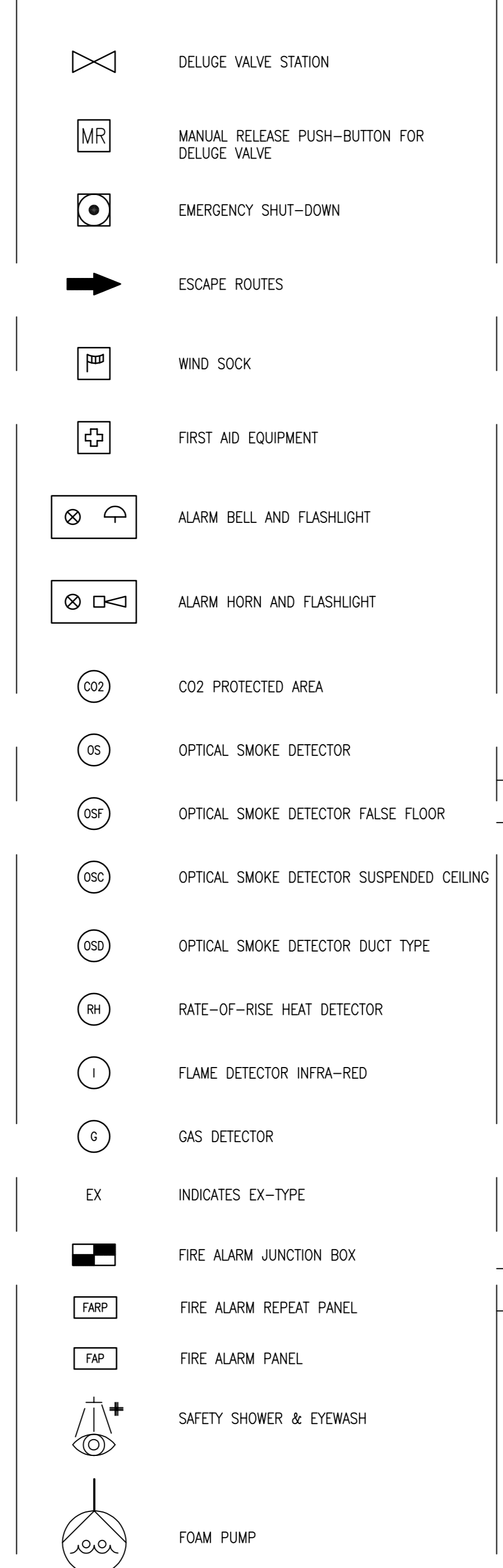
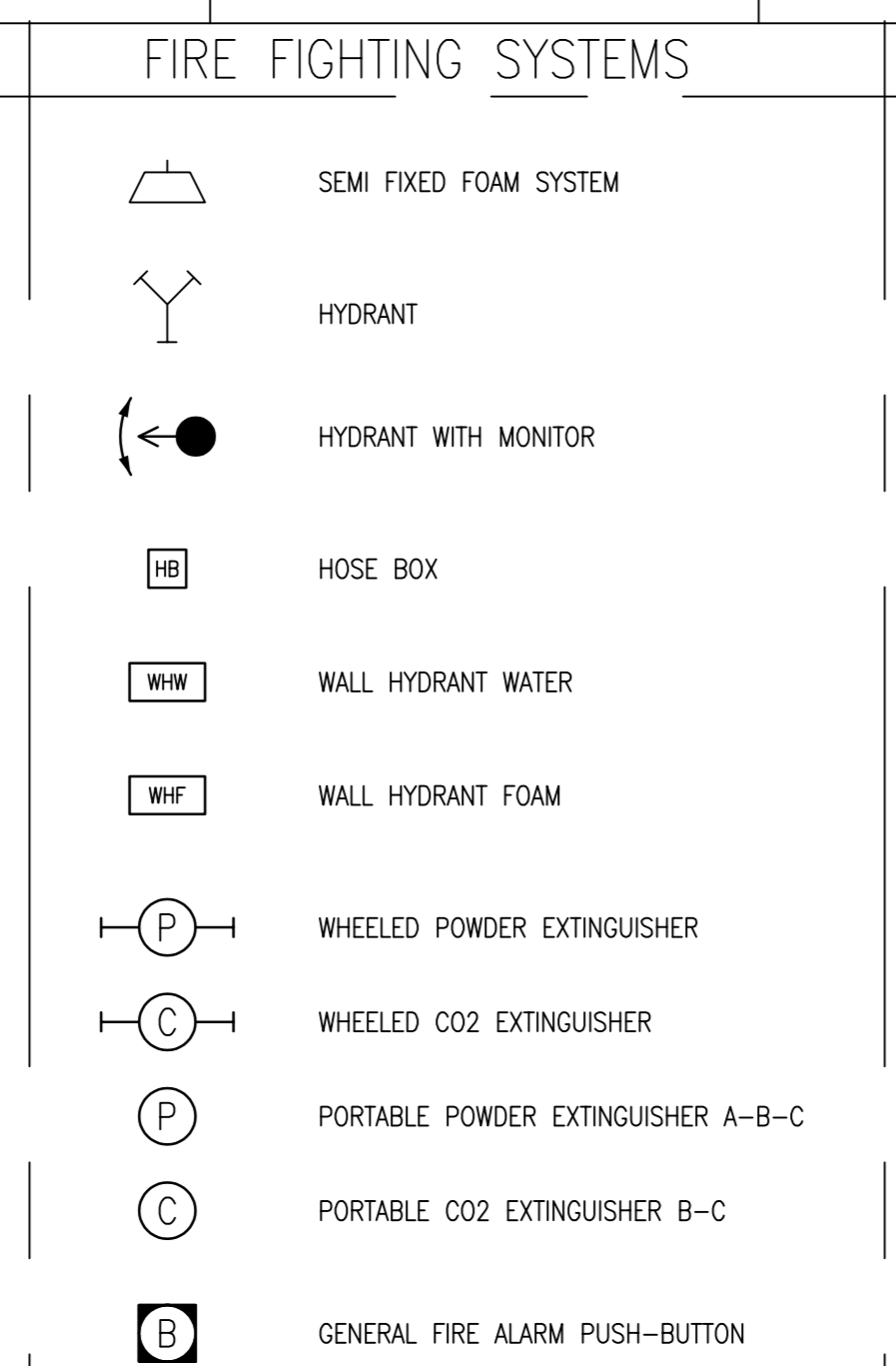
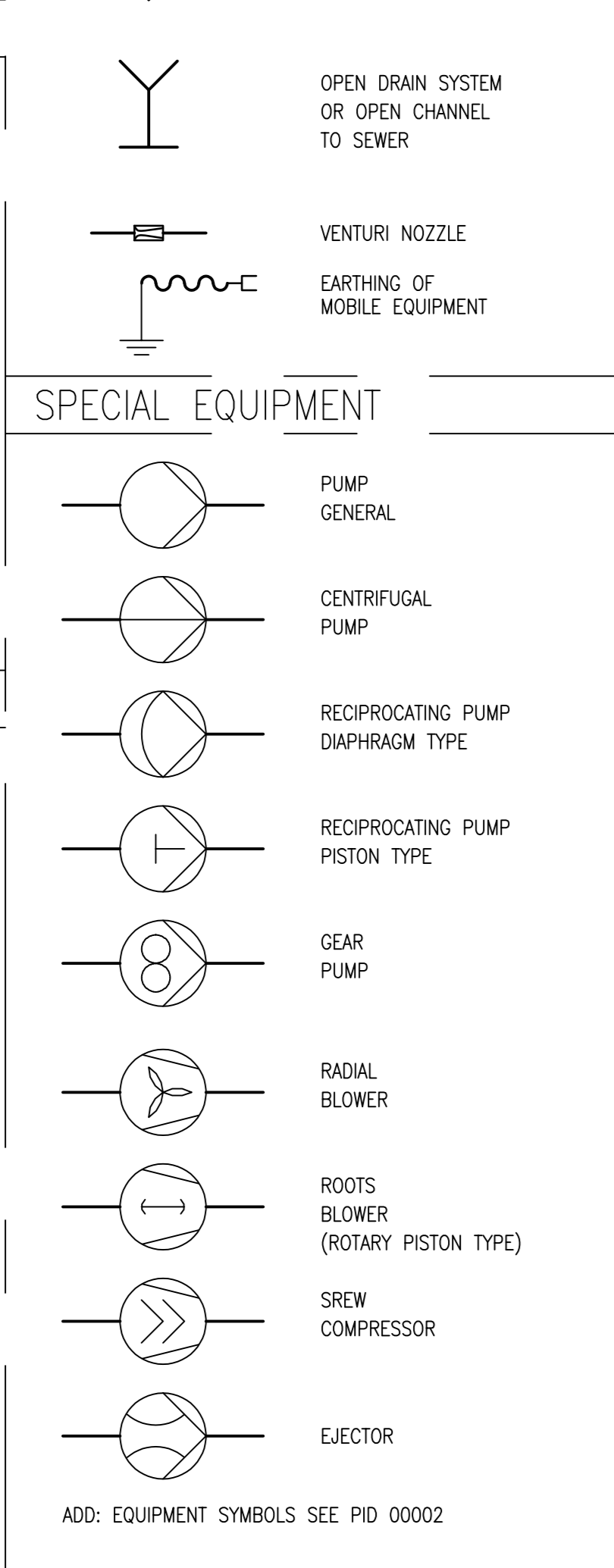
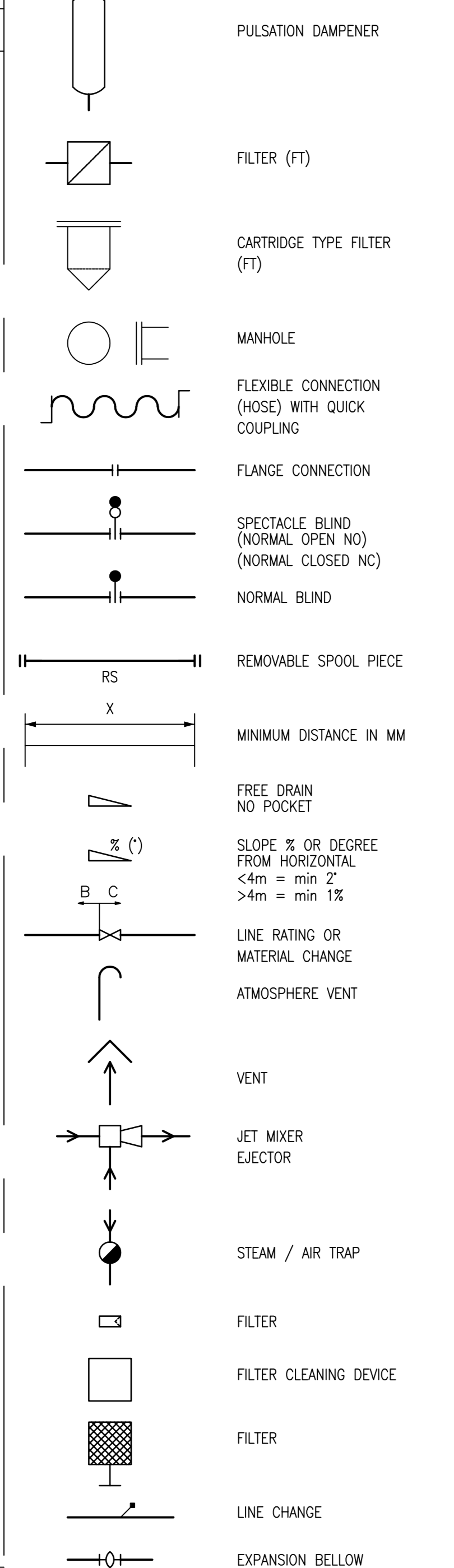
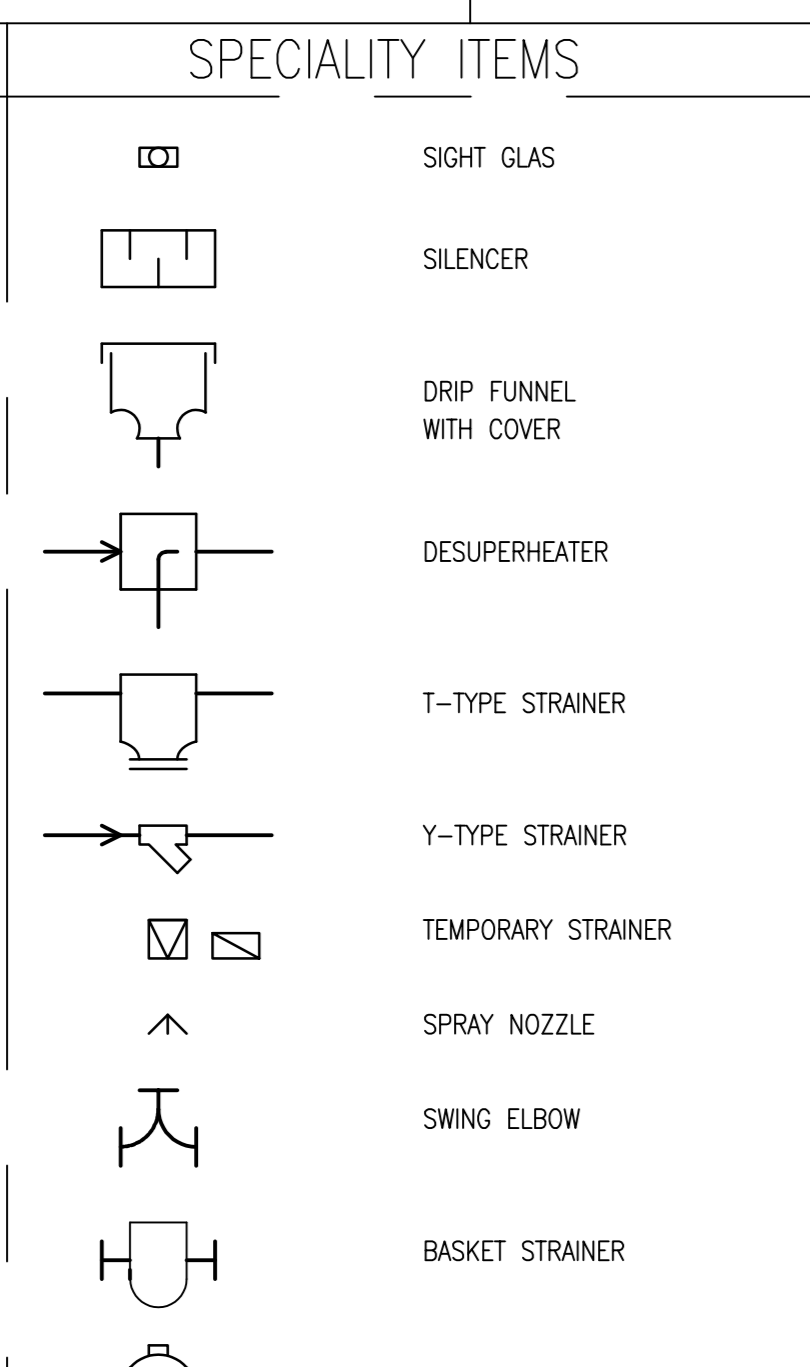
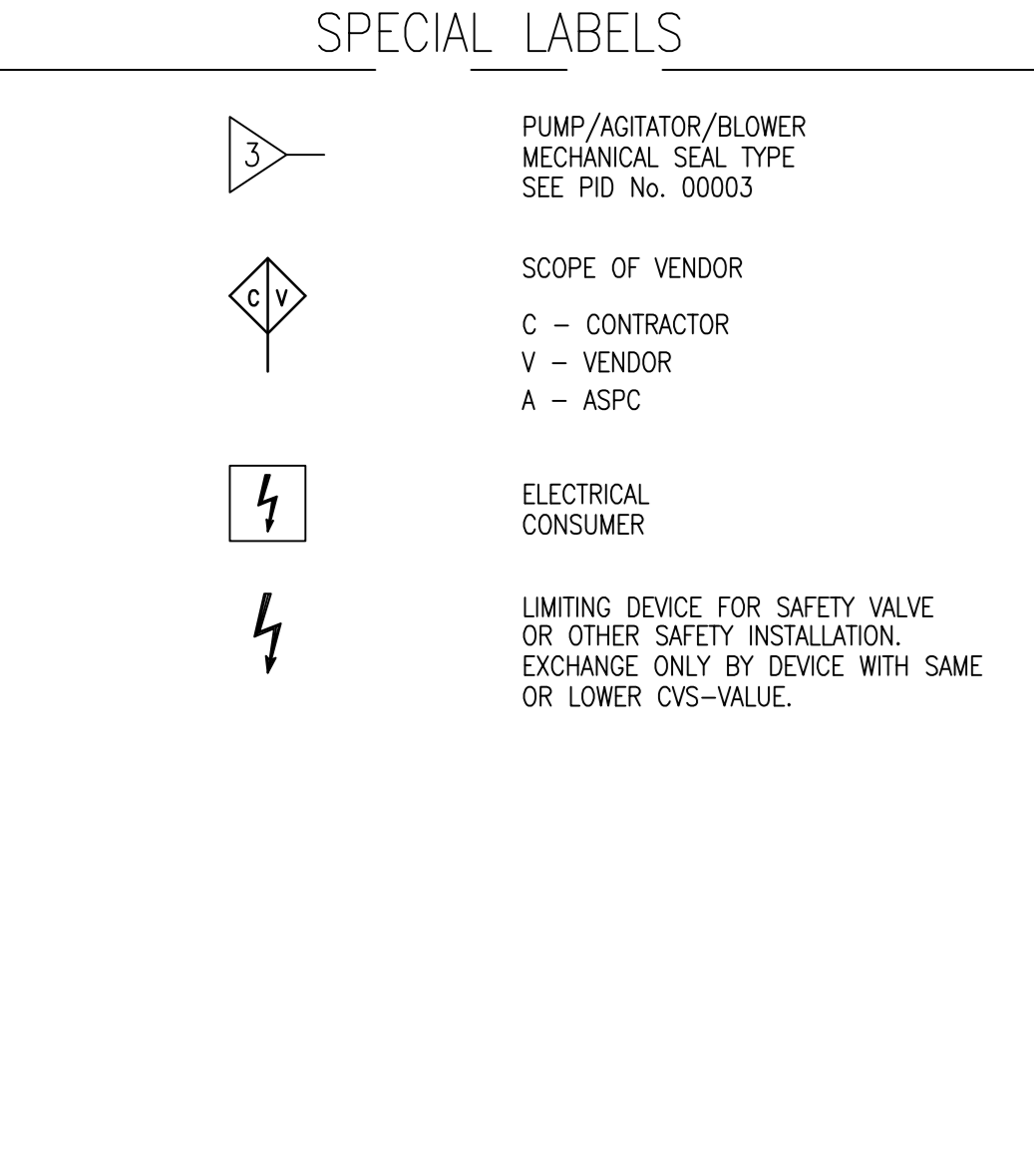
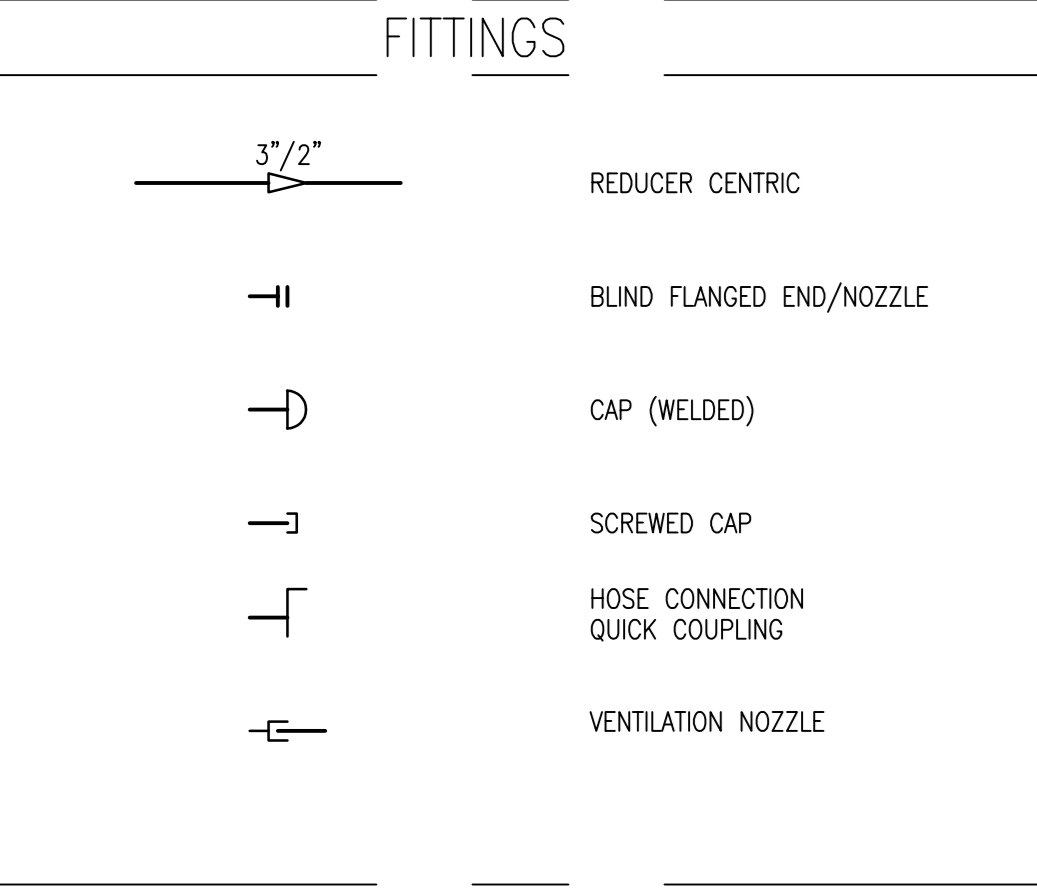
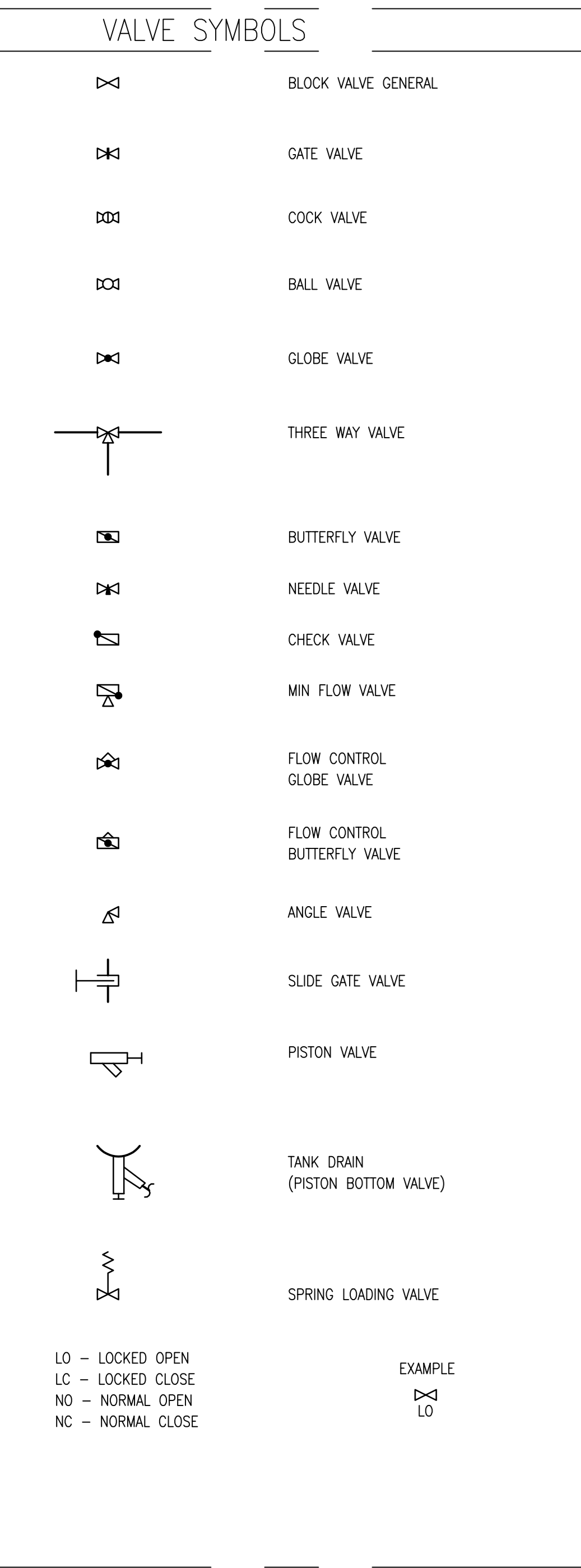
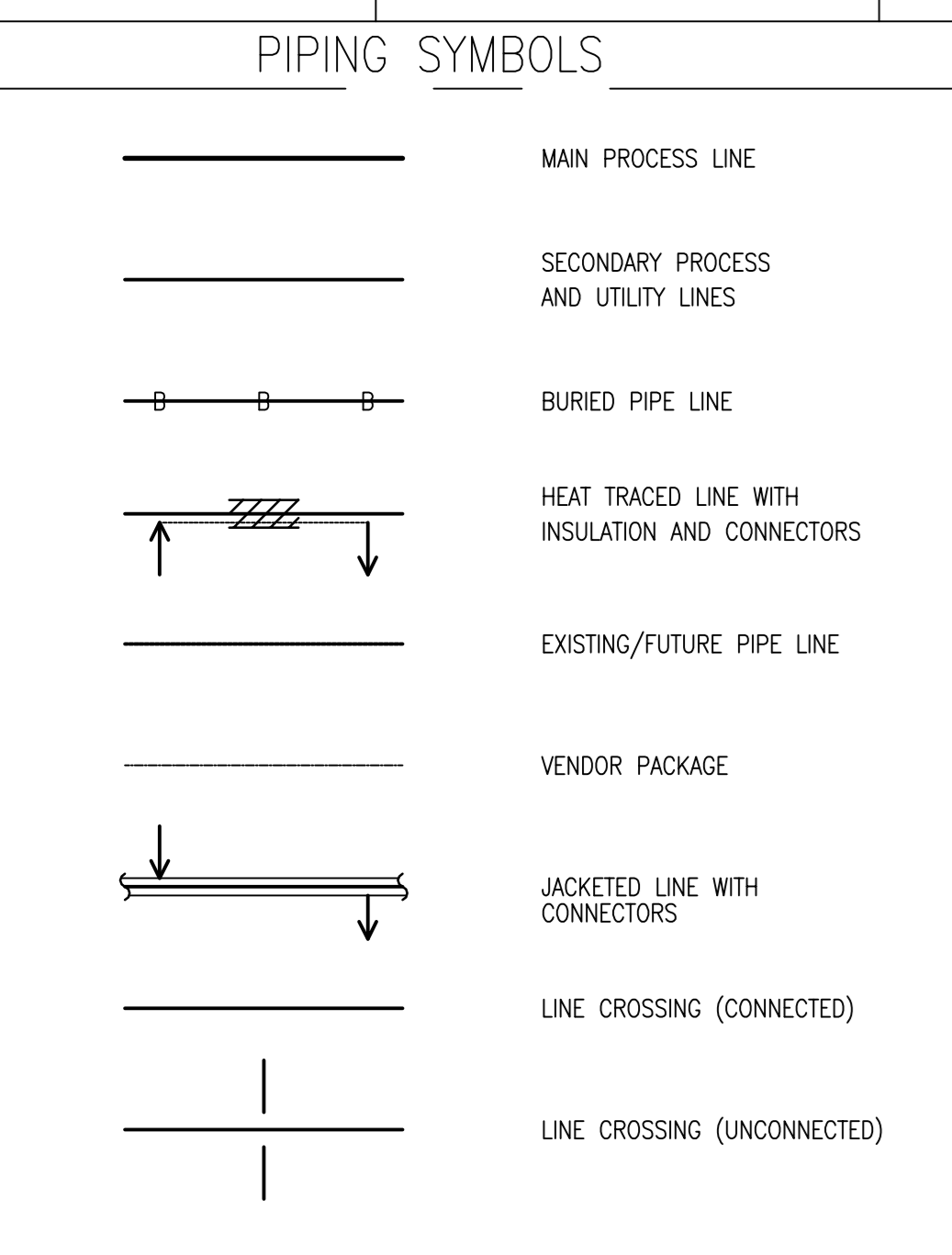
Customer Document : to be advised  
Number

Airpack Document Number : 23383-03

Document Title : Piping & Instrument Diagram (incl. legend)

Review Code and Status	Contractor Initials/Signature	Date signed
<input checked="" type="checkbox"/> <b>Code 1</b> <b>REJECTED</b> - Vendor to revise and Resubmit. Work cannot proceed		18 Feb 2025
<input type="checkbox"/> <b>Code 2</b> Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments		
<input type="checkbox"/> <b>Code 3</b> No Comments - Work may proceed.		
<input type="checkbox"/> <b>Code 4</b> Information only - Review not required.		

00	Issued for Approval	11-02-2025	SC	KP	JJ
Rev. No.	Description	Date	Prepared by	Checked by	Approved by



### 300 KT POLYETHYLENE PLANT

#### ARYA SASOL POLYMER COMPANY (ASPC)

OWNER: ARYA SASOL POLYMER COMPANY

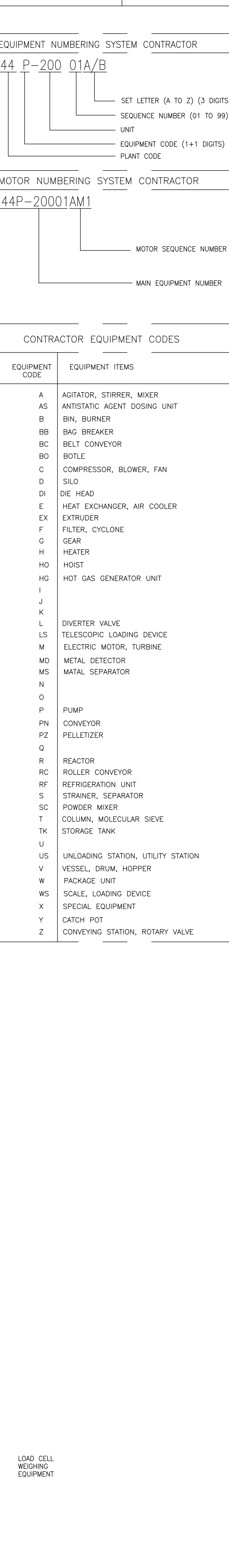
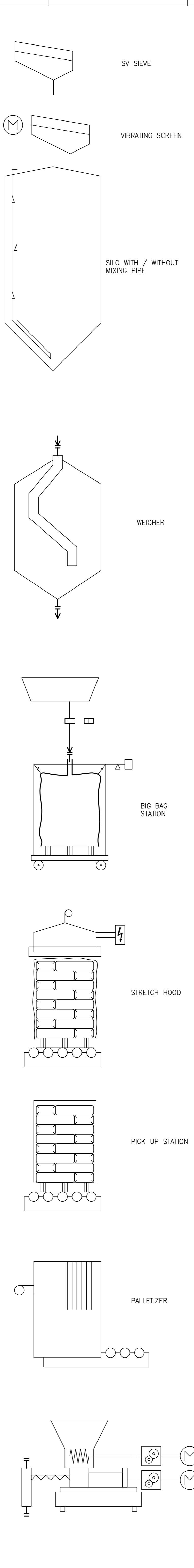
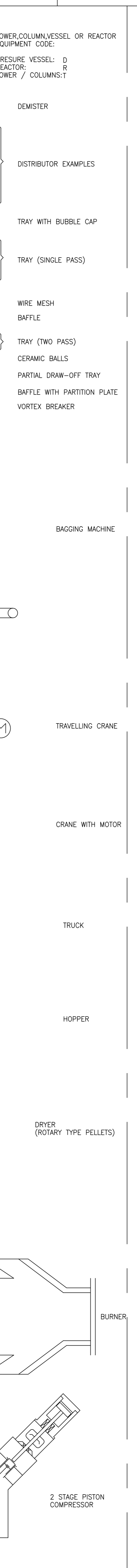
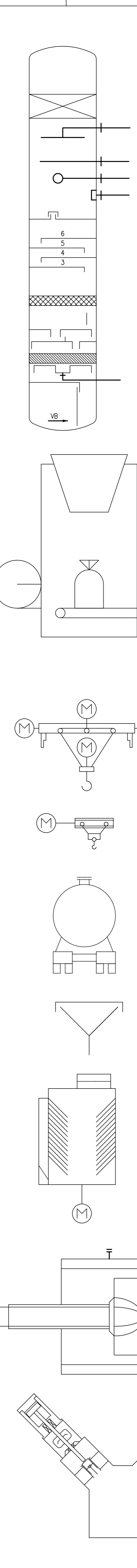
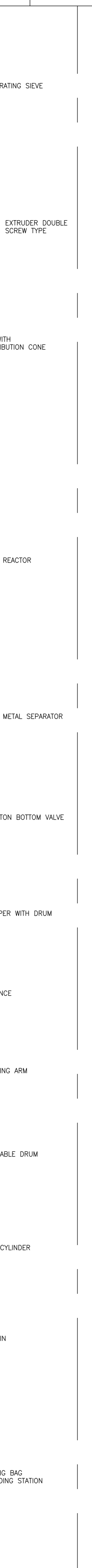
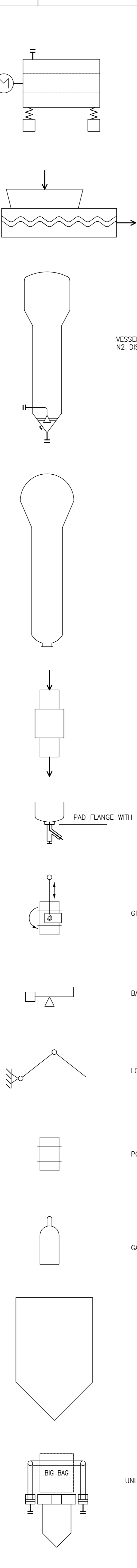
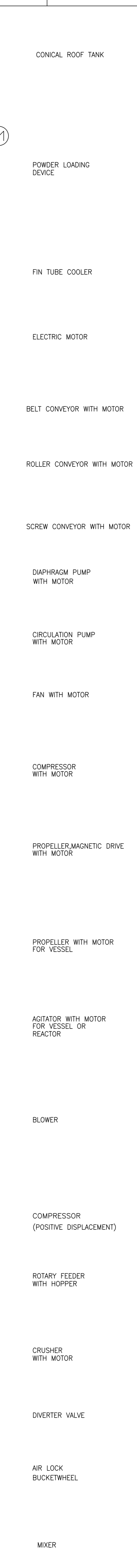
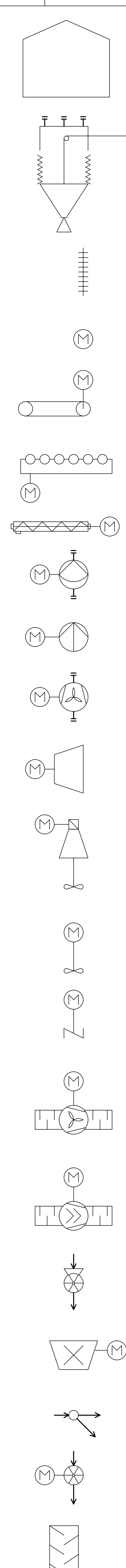
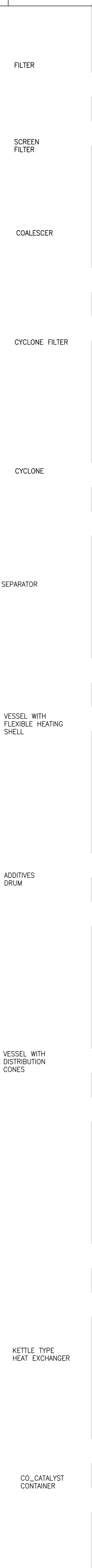
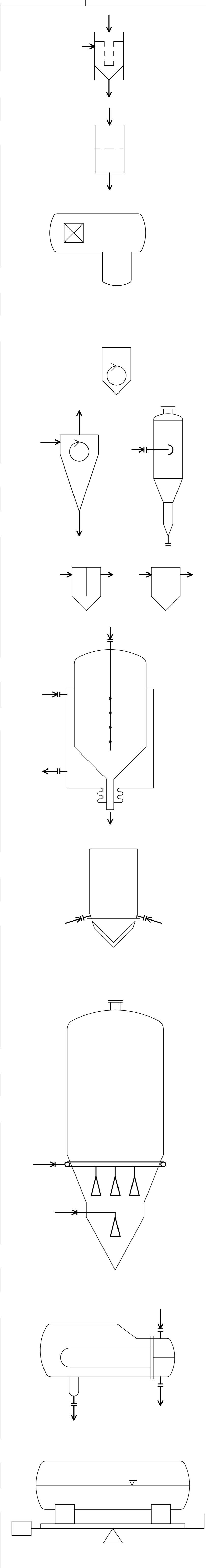
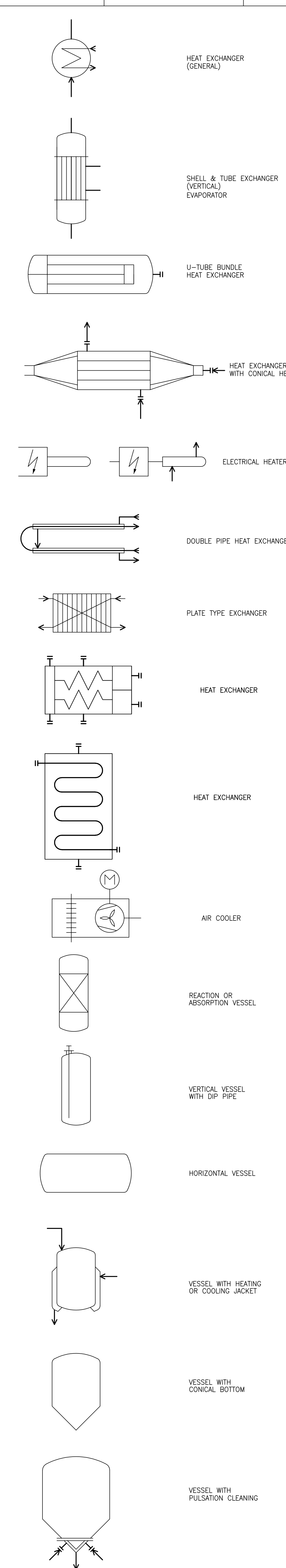
CONTRACTOR: SAZEH CONSULTANTS

VENDOR: DYPNF

DRAWING TITLE: PIPING & INSTRUMENTATION DIAGRAM 00001  
LEGEND AND SYMBOLS 1  
SYMBOLS, GENERAL NOTES AND CODE SYSTEM FOR PID / PFD

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0171	DYP	RE	000	PID	0017

SCALE: NONE SIZE: A0 SHEET NO. 1 OF 11 REV. 00



**GENERAL NOTES**

**EQUIPMENT NUMBERING SYSTEM CONTRACTOR**  
 44 P-200 01A/B  
 SET LETTER (A TO Z) (3 DIGITS)  
 SEQUENCE NUMBER (01 TO 99)  
 UNIT  
 EQUIPMENT CODE (1+1 DIGITS)  
 PLANT CODE

**MOTOR NUMBERING SYSTEM CONTRACTOR**  
 44P-20001AM1  
 MOTOR SEQUENCE NUMBER  
 MAIN EQUIPMENT NUMBER

**CONTRACTOR EQUIPMENT CODES**

EQUIPMENT CODE	EQUIPMENT ITEMS
A	AGITATOR, STIRRER, MIXER
AS	ANTISTATIC AGENT DOSING UNIT
B	BIN, BURNER
BB	BAG BREAKER
BC	BELT CONVEYOR
BO	BOTTLE
C	COMPRESSOR, BLOWER, FAN
D	SILO
DI	DIE HEAD
E	HEAT EXCHANGER, AIR COOLER
EX	EXTRUDER
F	FILTER, CYCLONE
G	GEAR
H	HEATER
HO	HOIST
HG	HOT GAS GENERATOR UNIT
I	
J	
K	
L	DIVERTER VALVE
LS	TELESCOPIC LOADING DEVICE
M	ELECTRIC MOTOR, TURBINE
MD	METAL DETECTOR
MS	MATAL SEPARATOR
N	
O	
P	PUMP
PN	CONVEYOR
PZ	PELLETIZER
Q	
R	REACTOR
RC	ROLLER CONVEYOR
RF	REFRIGERATION UNIT
S	STRAINER, SEPARATOR
SC	POWDER MIXER
T	COLUMN, MOLECULAR SIEVE
TK	STORAGE TANK
U	
US	UNLOADING STATION, UTILITY STATION
V	VESSEL, DRUM, HOPPER
W	PACKAGE UNIT
WS	SCALE, LOADING DEVICE
X	SPECIAL EQUIPMENT
Y	CATCH POT
Z	CONVEYING STATION, ROTARY VALVE

**REFERENCE DRAWINGS**  
 XXXX

**DWG.No.**  
 XXXX

**LEGEND**

RESULT CODE:  AP  AN  CO  RE      RESUBMISSION DATE:

NEXT STATUS:  IFI  IFA  AFC  ASB/FIN

Approval or review hereunder shall not be construed to relieve Vendor/ Subcontractor of his responsibilities and liability under the Contract.

P.O. NO.:

M.R. NO.:

ITEM NO. (EQUIPMENT NO.):

VENDRO JOB NO.:

00	14/Mar/24	ISSUE FOR APPROVAL	SYL	MJP	MHY
REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.

OWNER:

**PROJECT:**  
 300 KT POLYETHYLENE PLANT  
 ARYA SASOL POLYMER COMPANY (ASPC)

MC:

**CONTRACTOR:** SAZEH CONSULTANTS

**VENDOR:** DYPNF

**DRAWING TITLE:**  
 PIPING & INSTRUMENTATION DIAGRAM 00003  
 LEGEND AND SYMBOLS 2  
 EQUIPMENT SYMBOLS

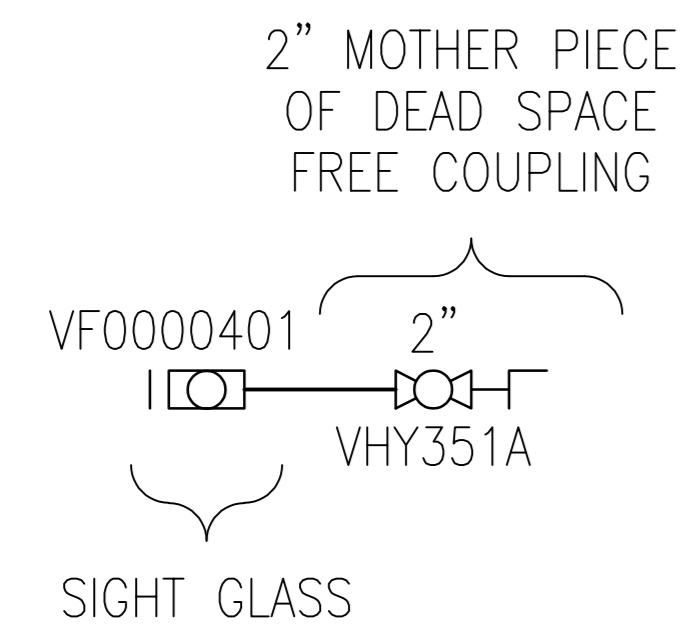
OWNER DOC. NO.

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
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SCALE: NONE      SIZE: A0      SHEET NO. 2 OF 11      REV. 00

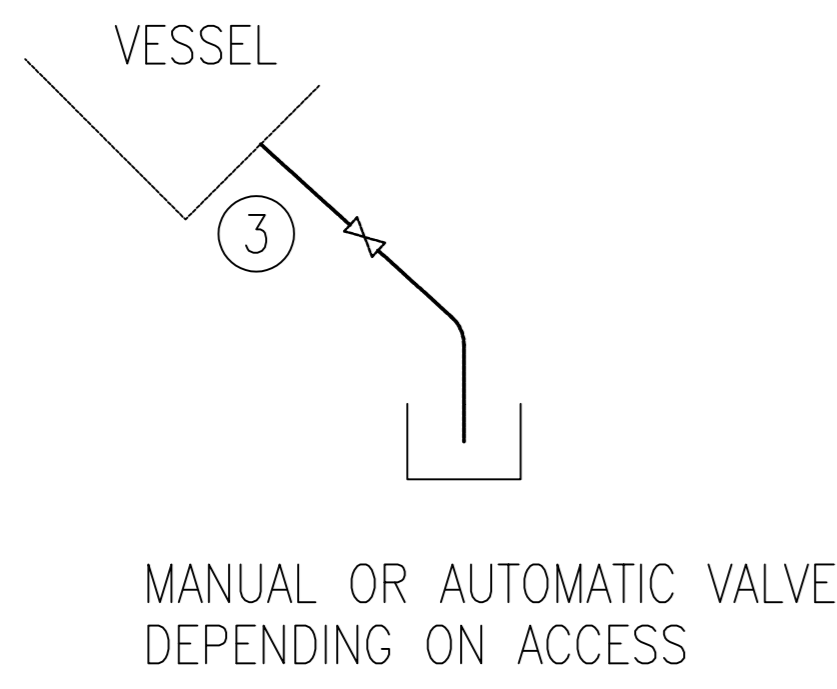
THIS DOCUMENT WITH ALL ITS RIGHTS IS THE PROPERTY OF A.S.P.C. AND MUST BE HELD IN CONFIDENCE. NO DISCLOSURE, REPRODUCTION OR OTHER USE OF THE DOCUMENT IN WHOLE OR A PORTIONS TO BE MADE WITHOUT THE PRIOR CONSENT OF A.S.P.C.

No. 1  
SAMPLE CONNECTION  
FOR ACTIVATED CATALYST  
ACC. TO P&I 10020  
(NO MAT)



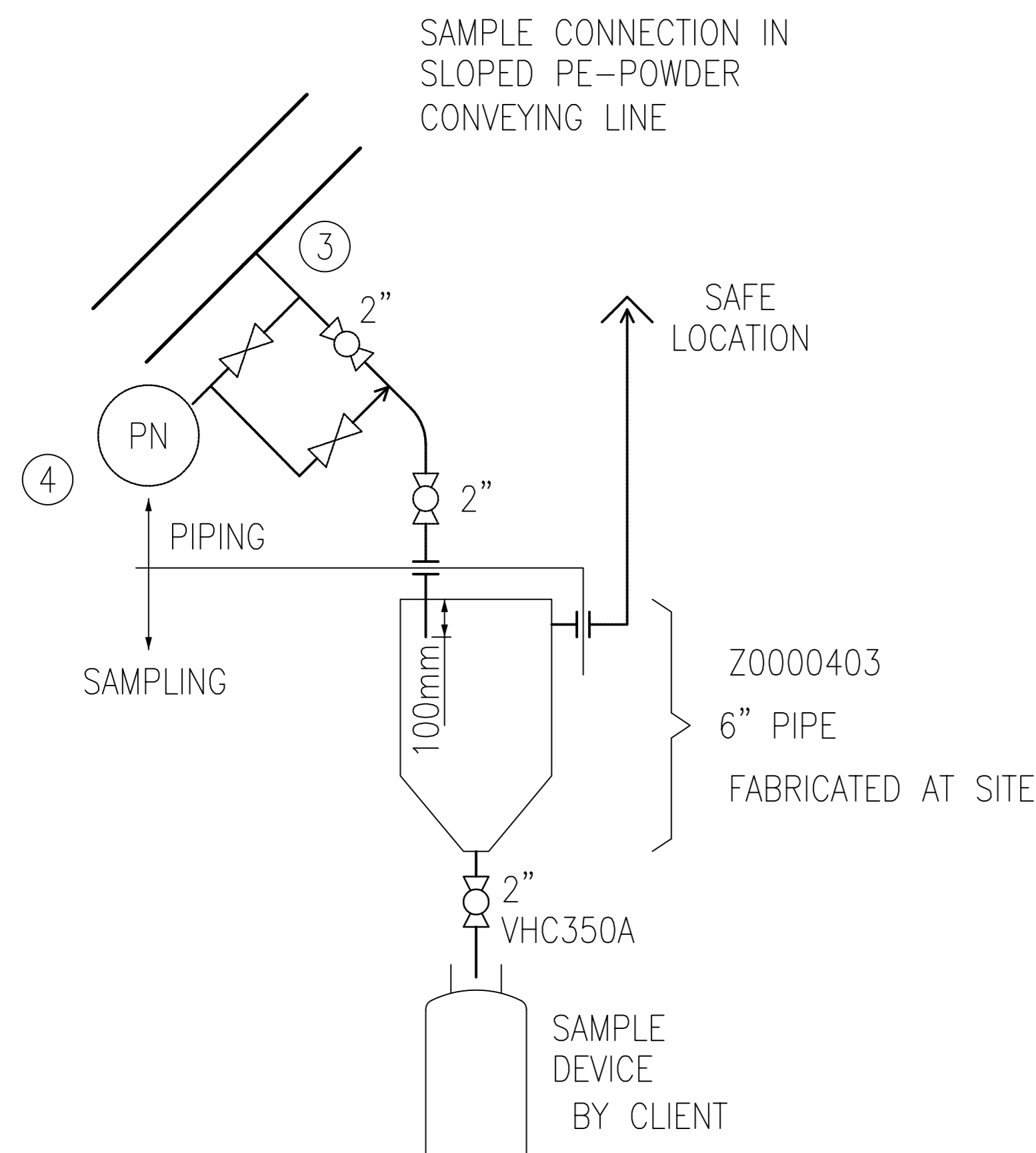
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1	SC1002001	10020	44B-10001B	CATALYST	No.: 1
2	SC1002002	10020	44B-10001A	CATALYST	No.: 1

No. 4  
SAMPLE CONNECTION FOR  
PE-GRANULATE MOUNTED  
TO A VESSEL



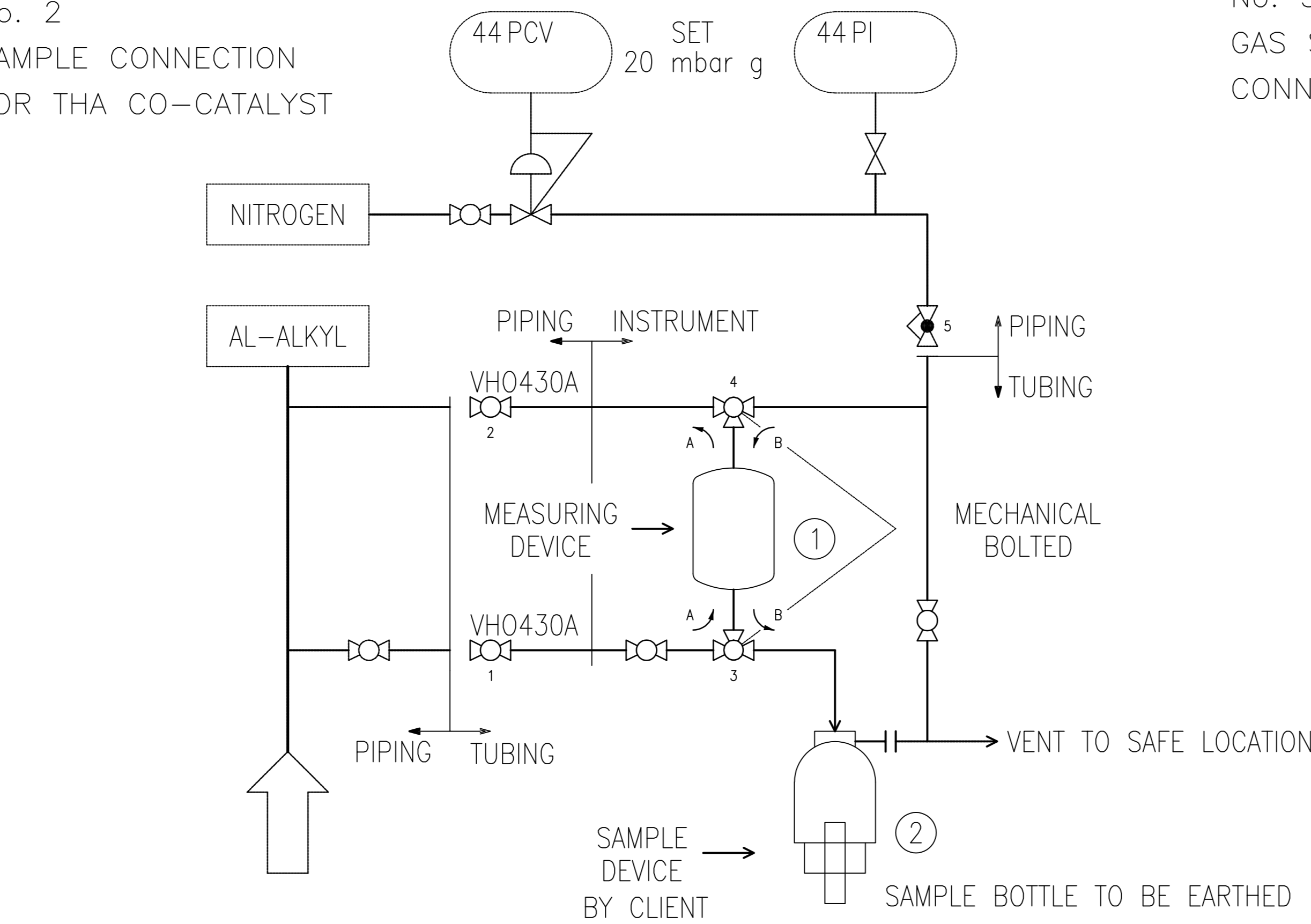
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1	SC5003501	50035	44V-50002-1	PE-PELLETS	No.: 4
2	SC8001001	80010	44D-80001A-1	PE-PELLETS	No.: 4
3	SC8001002	80010	44D-80001C-1	PE-PELLETS	No.: 4
4	SC8001101	80011	44D-80001B-1	PE-PELLETS	No.: 4
5	SC8001102	80011	44D-80001D-1	PE-PELLETS	No.: 4
6	SC8002001	80020	44D-80002A-1	PE-PELLETS	No.: 4
7	SC8002002	80020	44D-80002B-1	PE-PELLETS	No.: 4
8	SC8002003	80020	44D-80002C-1	PE-PELLETS	No.: 4
9	SC8002101	80021	44D-80002D-1	PE-PELLETS	No.: 4
10	SC8002102	80021	44D-80002E-1	PE-PELLETS	No.: 4
11	SC8002103	80021	44D-80002F-1	PE-PELLETS	No.: 4
12	SC8001003	80010	44D-80001E-1	PE-PELLETS	No.: 4
13	SC8001103	80011	44D-80001F-1	PE-PELLETS	No.: 4

No. 7  
SAMPLE CONNECTION  
FOR PE-POWDER



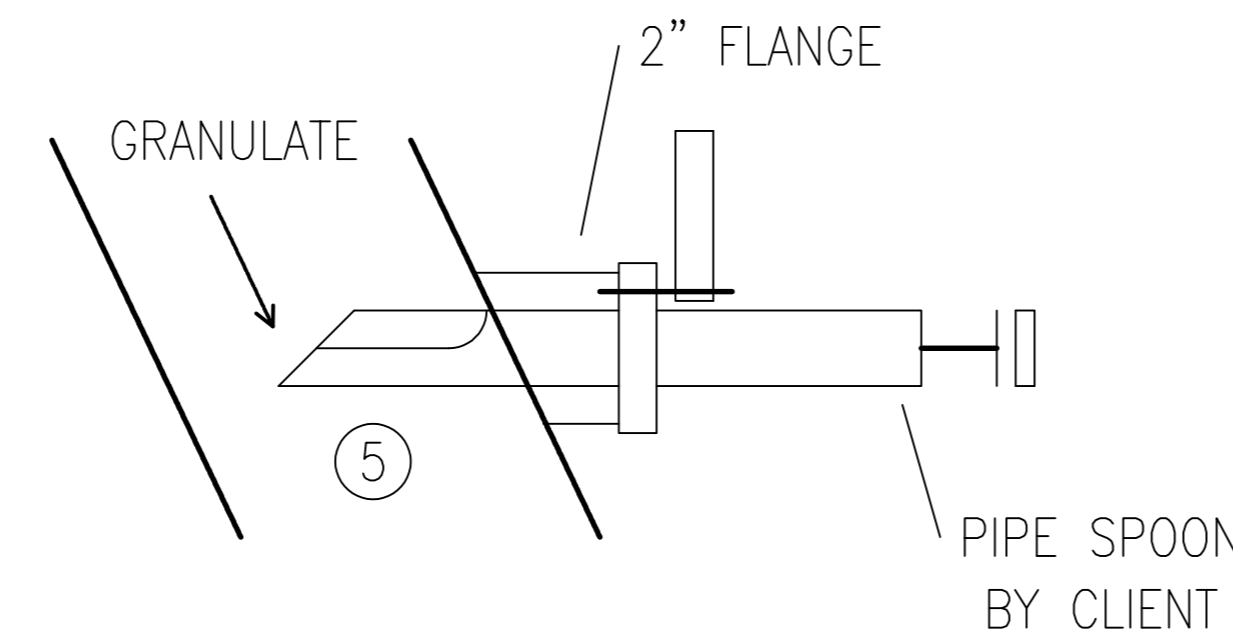
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1	SC4000001	40000	4000011	PE-POWDER	No.: 7
2	SC4003001	40030	4003019	PE-POWDER	No.: 7
3	SC4004001	40040	4004019	PE-POWDER	No.: 7

No. 2  
SAMPLE CONNECTION  
FOR THA CO-CATALYST



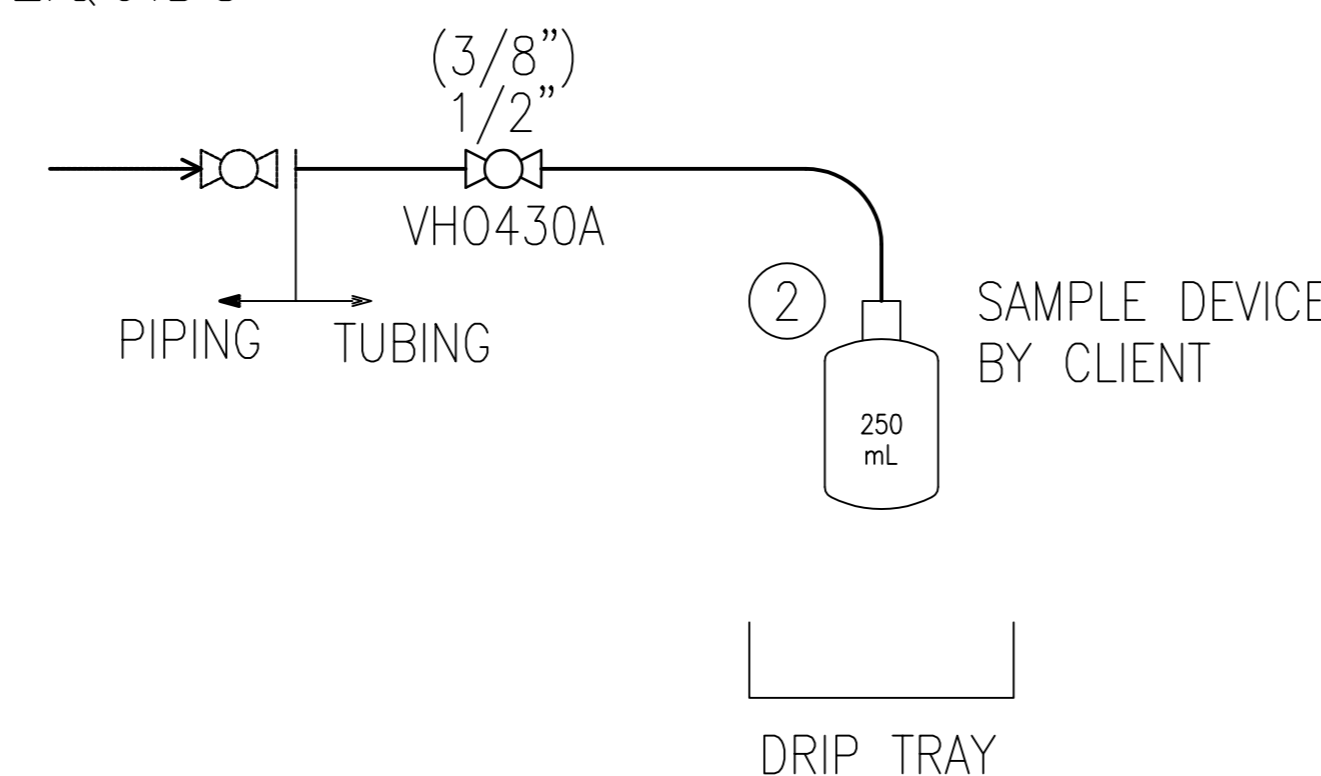
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1	SC1004101	10041	1004104	CO-CATALYST/HEXANE	No.: 2

No. 5  
SAMPLE CONNECTION  
FOR PE-GRANULATES IN  
SLOPED CONVEYING PIPE



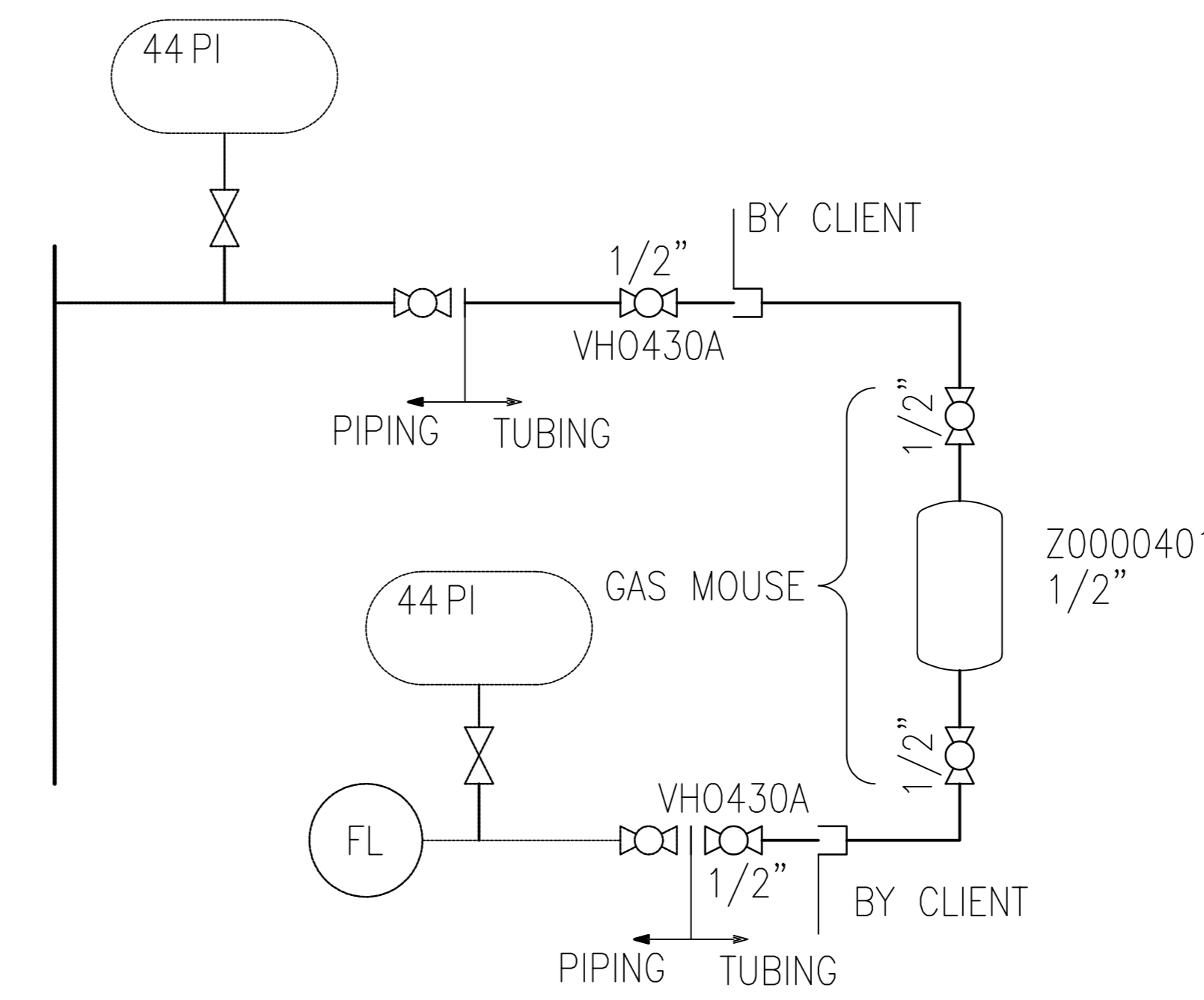
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1	SC5003502	50035	5002698	PE-PELLETS	No.: 5

No. 8  
SAMPLE CONNECTION  
FOR LIQUIDS



No.	SAMPLE No.	PID No.	LOCATION	MEDIUM	SAMPLE TYPE No.
1	SC1005001	10050	1005120	ANTISTATIC AGENT 1	No.: 8 (3/8)
2	SC2000001	20000	1005220	ANTISTATIC AGENT 2	No.: 8 (3/8)
3	SC7002001	70020	0001004P	HEXANE	No.: 8
4	SC7002002	70020	7006030	I-HEXENE	No.: 8
5	SC7003001	70030	7002024	N-HEXANE	No.: 8
6	SC7003002	70030	7002023	I-HEXENE	No.: 8
7	SC7003003	70030	7003013	HEXANE	No.: 8

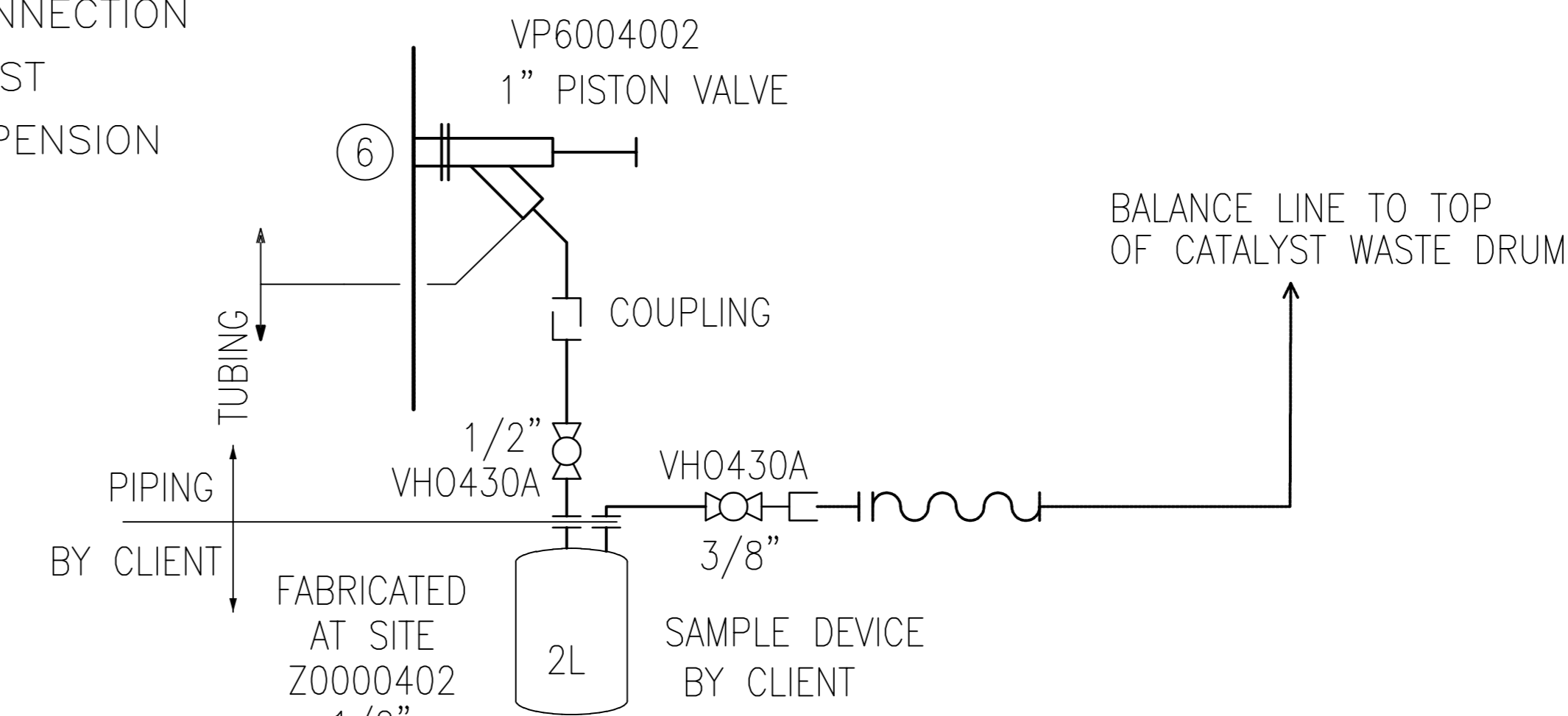
No. 3  
GAS SAMPLE  
CONNECTION



SCREWED CONNECTION OF MOUSE,  
SECURED BY PLUGS IF NOT IN USE

No.	SAMPLE No.	PID No.	LOCATION	MEDIUM	SAMPLE TYPE No.	GAS MOUSE No.
1	SC2002001	20020	2002037	CYCLE GAS	No.: 3	No.: 1, 3
2	SC2002002	20020	2002036	CYCLE GAS	No.: 3	No.: 1, 3
3	SC3001001	30010	3001026	RECOVERY GAS	No.: 3	No.: 1, 3
4	SC3001002	30010	3001004	RECOVERY GAS	No.: 3	No.: 1, 3
5	SC3001003	30010	3001012	RECOVERY GAS	No.: 3	No.: 1, 3
6	SC3004001	30040	3004016	PERMEATE	No.: 3	No.: 1, 3
7	SC3004002	30040	3004104	RETENTATE	No.: 3	No.: 5
8	SC7000001	70000	0001001P	ETHENE TO PURIFICATION	No.: 3	No.: 2
9	SC7001001	70010	7001025	PURIFIED ETHENE	No.: 3	No.: 3, 1
10	SC7008001	70080	0001012P	NITROGEN	No.: 3	No.: 4
11	SC7008101	70081	7008127	PURE NITROGEN	No.: 3	No.: 5

No. 6  
SAMPLE CONNECTION  
FOR CATALYST  
WASTE SUSPENSION



No.	SAMPLE No.	PID No.	LOCATION	MEDIUM	SAMPLE TYPE No.	REMARK
1	SC6004001	60040	6004007	CAT. WASTE SUSPENSION	No.: 6	SPECIAL EQUIPMENT FROM RITAG

GENERAL NOTES

- 1- MEASURING DEVICE SMALLER THAN SAMPLE DEVICE. OVERFILLING PROTECTION.
- 2- USE BLIND PLUG AFTER DISCONNECTING SAMPLE DEVICE.
- 3- DIRECTLY CONNECTED.
- 4- PN FLUSHING CONNECTION.
- 5- SAMPLE SPOON COVERS COMPLETE DIAMETER OF SLOPED CONVEYING LINE.
- 6- INSTALL IN SLOPED PART OF CATALYST WASTE DRUM DISCHARGE LINE.

REFERENCE DRAWINGS	DWG.No.
xxxx	xxxx

No.	SAMPLE No.	PID No.	LOCATION	MEDIUM	SAMPLE TYPE No.	GAS MOUSE No.
1	SC2002001	20020	2002037	CYCLE GAS	No.: 3	No.: 1, 3
2	SC2002002	20020	2002036	CYCLE GAS	No.: 3	No.: 1, 3
3	SC3001001	30010	3001026	RECOVERY GAS	No.: 3	No.: 1, 3
4	SC3001002	30010	3001004	RECOVERY GAS	No.: 3	No.: 1, 3
5	SC3001003	30010	3001012	RECOVERY GAS	No.: 3	No.: 1, 3
6	SC3004001	30040	3004016	PERMEATE	No.: 3	No.: 1, 3
7	SC3004002	30040	3004104	RETENTATE	No.: 3	No.: 5
8	SC7000001	70000	0001001P	ETHENE TO PURIFICATION	No.: 3	No.: 2
9	SC7001001	70010	7001025	PURIFIED ETHENE	No.: 3	No.: 3, 1
10	SC7008001	70080	0001012P	NITROGEN	No.: 3	No.: 4
11	SC7008101	70081	7008127	PURE NITROGEN	No.: 3	No.: 5

LEGEND

RESULT CODE:  AP  AN  CO  RE

NEXT STATUS:  IFI  IFA  AFC  ASB/FIN

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VENDOR JOB NO.:

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	SYL	MJP	MHY
00	14/Mar/24	ISSUE FOR APPROVAL			

OWNER:



PROJECT:  
300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC:  
ISEDCO

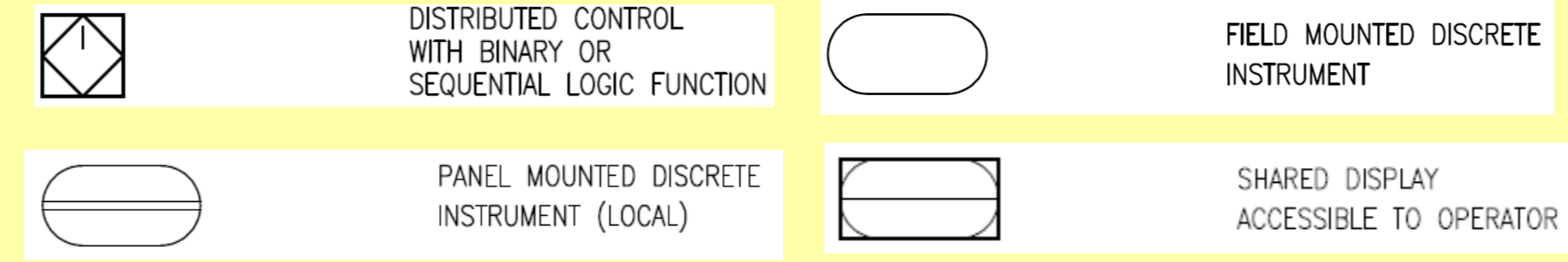


DRAWING TITLE:  
PIPING & INSTRUMENTATION DIAGRAM 00004  
LEGEND AND SYMBOLS 3  
SAMPLE TAKING DEVICE

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0171	DYP	RE	000	PID	0017

SCALE: NONE SIZE: A0 SHEET NO. 3 OF 11 REV. 00

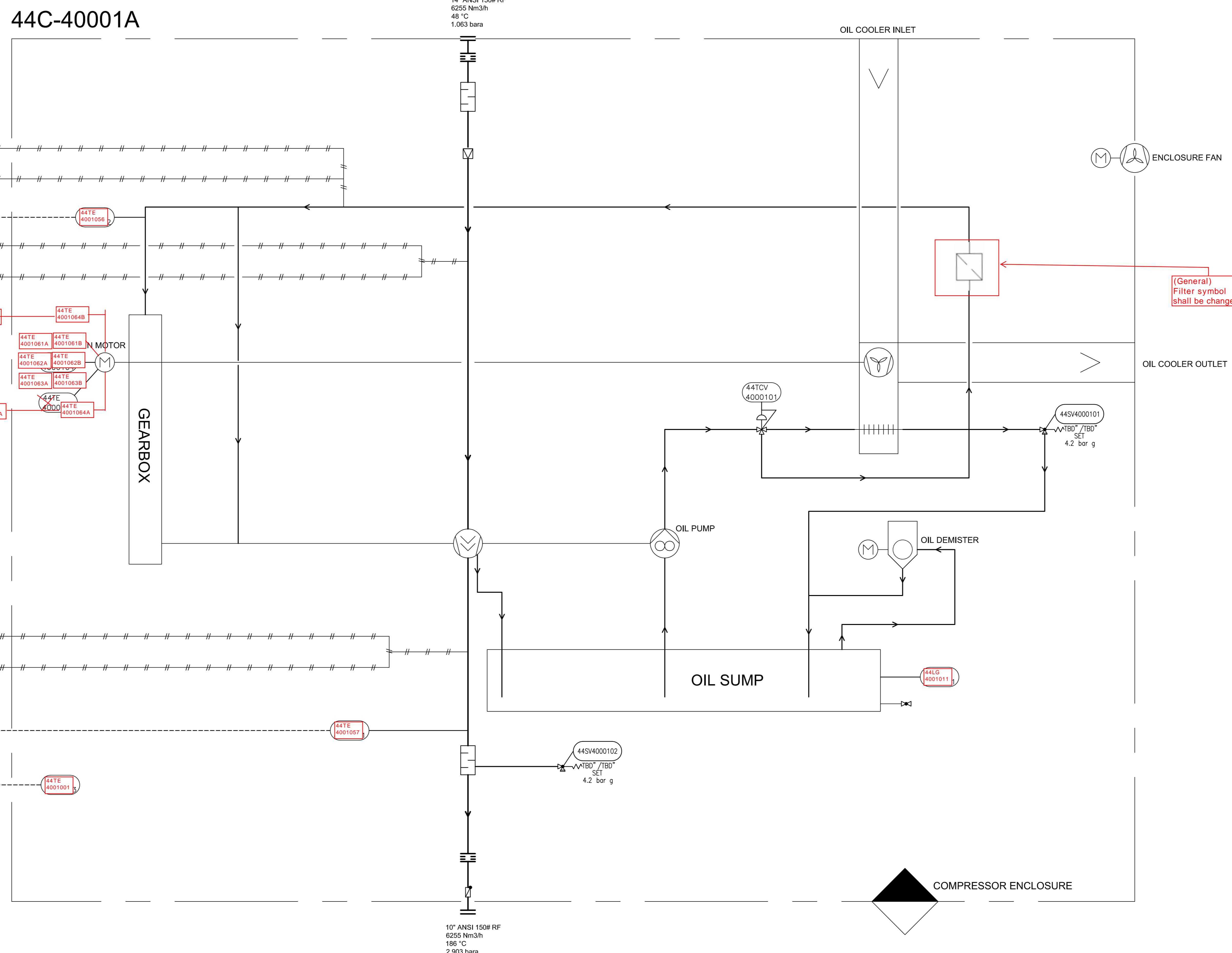
- (General Comment)
- DCS signal indications represent on compressor P&ID.
  - Interlock represent on compressor P&ID. Major interlocks and dedicated number are as below list.
    - I - 4001 Powder Pneumatic Transport
    - I - 4101 44C - 40001A Protection
    - I - 4201 44C - 40001B Protection
    - I - 8xxx Air Conveying Compressor Handling Sequence
  - All instrument tag numbers are modified according to DYPNF P&ID.
  - The P&ID should be revised by referring to page 16 of PDF in this file.
  - Comments on 44C - 40001A are applicable to all next pages.
  - P&ID should follow the symbol and legend.



Local instrument of panel mounted symbol is as follows.

(General) Transmitter for bearing temperature detectors should be installed in Junction Box.

(General) Filter symbol shall be changed.



GENERAL NOTES

1- -

LEGEND

DETAIL

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ

OWNER: ARYA SASOL POLYMER COMPANY



PROJECT: 300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC: ISEDCO

CONTRACTOR: SAZEH CONSULTANTS

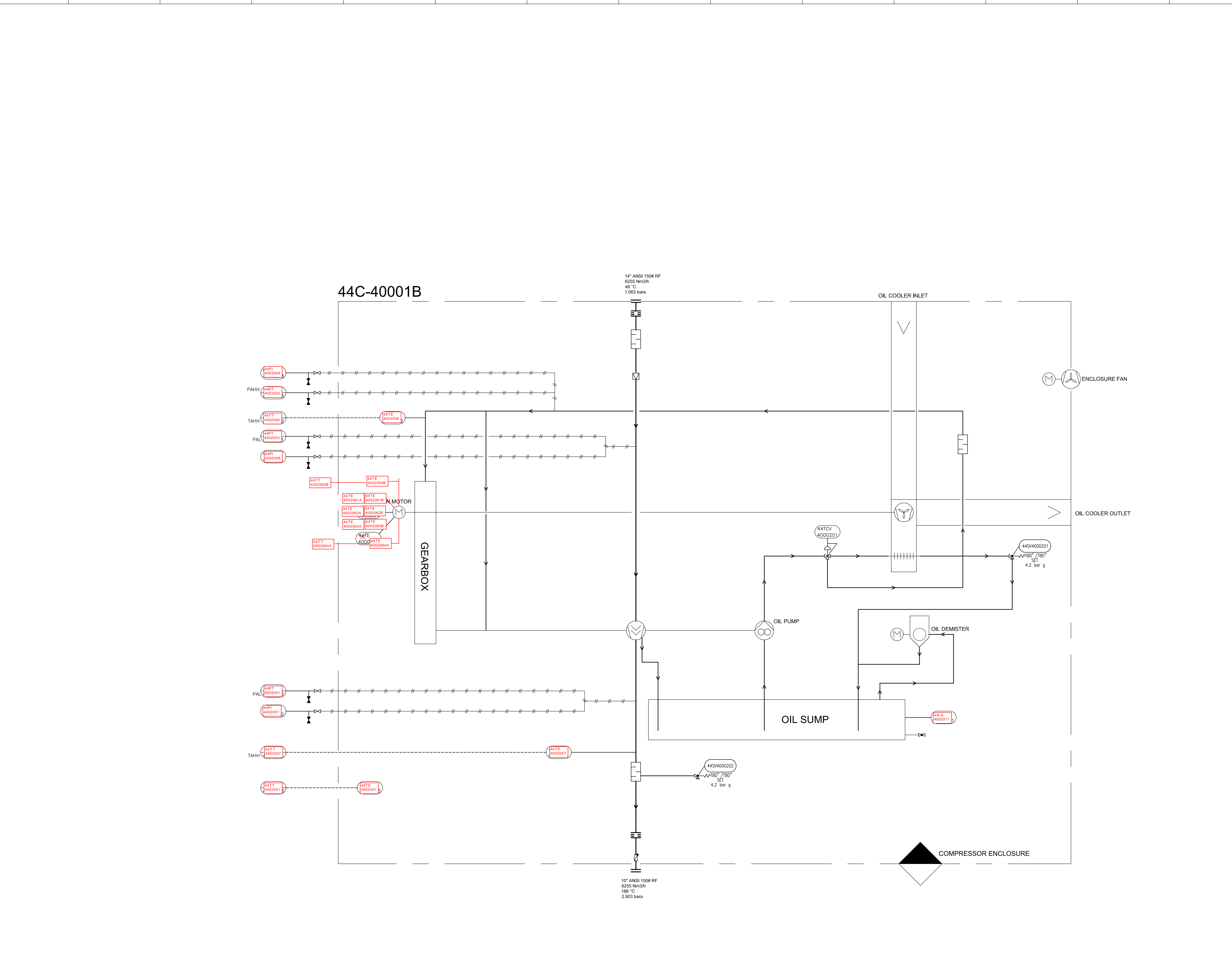


DRAWING TITLE: PIPING & INSTRUMENTATION DIAGRAM  
PNEUMATIC CONVEYING SYSTEM 44C-40001A

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0171	DYP	RE	400	PID	0016
SCALE:	NONE	SIZE:	A0	SHEET NO.	1	OF 2	REV. 00

ITEM	44C-40001A	44M-40001A
DESCRIPTION	Blower	Main Motor
TECHNICAL DATA	Outlet Capacity: 6255 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.053/2.903 Bara Inlet/Outlet Temp: 50/186 °C Gas: Nitrogen	Rated Power: 440 kW Speed: 2988 rpm Power Supply: 6kV / 50Hz / 3ph

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ITEM	44C-40001B	44M-40001B			
DESCRIPTION	Blower	Main Motor			
TECHNICAL DATA	Outlet Capacity: 6255 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.053/2.903 Bara Inlet/Outlet Temp: 50/186 °C Gas: Nitrogen	Rated Power: 440 kW Speed: 2988 rpm Power Supply: 6kV / 50Hz / 3ph			

GENERAL NOTES

1- -

LEGEND

DETAIL

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ

OWNER:

شرکت پلیمر آریا ساسول  
ARYA SASOL POLYMER COMPANY  
پلیمر ساسول

PROJECT:

300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC:

شرکت مهندسی و صنعتی آریا ساسول  
ISEDCO

CONTRACTOR:

SAZEH CONSULTANTS

VENDOR:

DYPNF

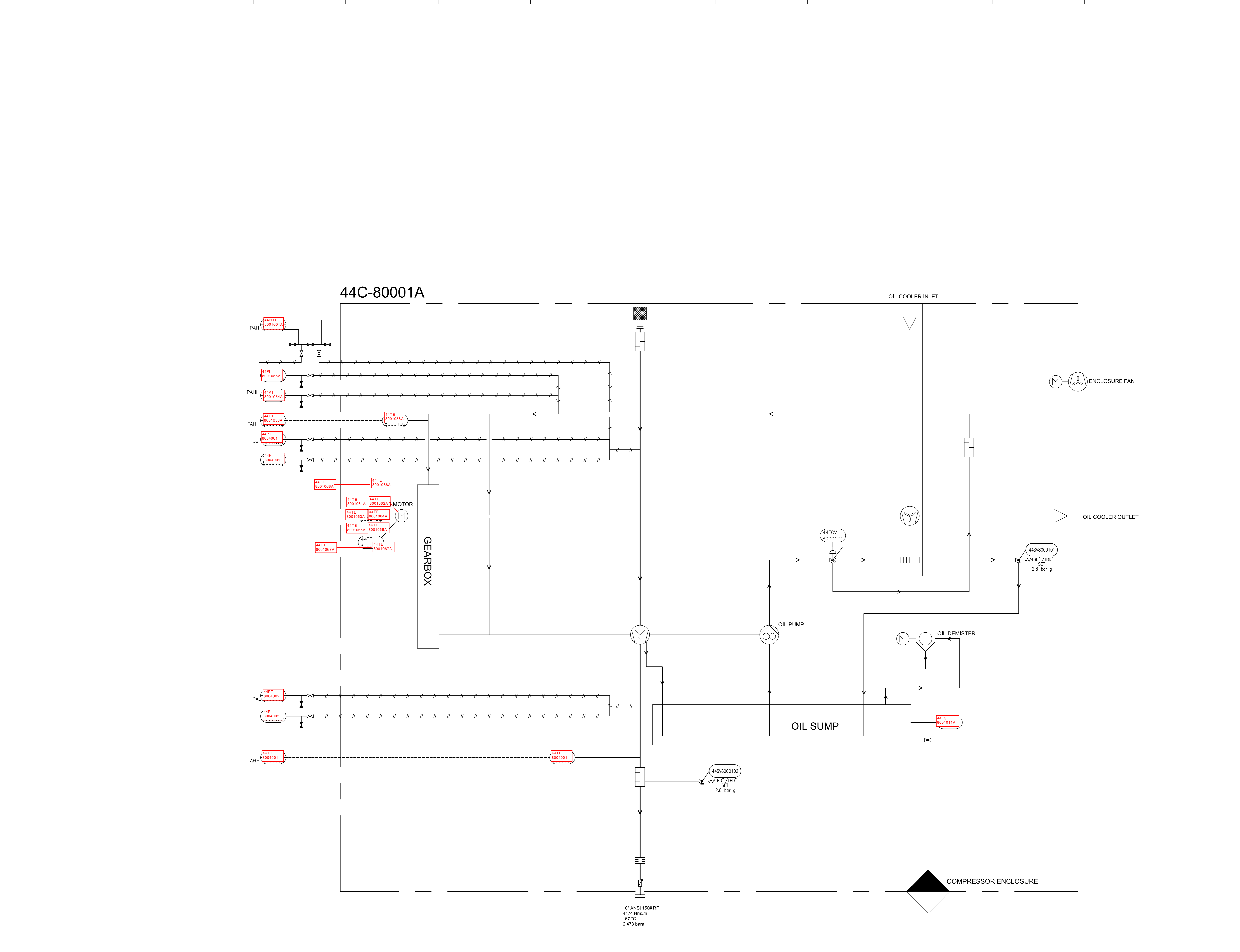
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PIPING & INSTRUMENTATION DIAGRAM  
PNEUMATIC CONVEYING SYSTEM 44C-40001B

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0171	DYP	RE	400	PID	0016

SCALE: NONE SIZE: A0 SHEET NO. 2 OF 2 REV. 00

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ITEM	44C-80001A	44M-80001A
DESCRIPTION	Blower	Main Motor
TECHNICAL DATA	Outlet Capacity: 4174 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.013/2.473 Bara Inlet/Outlet Temp: 48/167 °C Gas: Air	Rated Power: 250 kW Speed: 2980 rpm Power Supply: 6kV / 50Hz / 3ph

GENERAL NOTES

1- -

LEGEND

DETAIL

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ

OWNER:

300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC:

CONTRACTOR:

VENDOR:

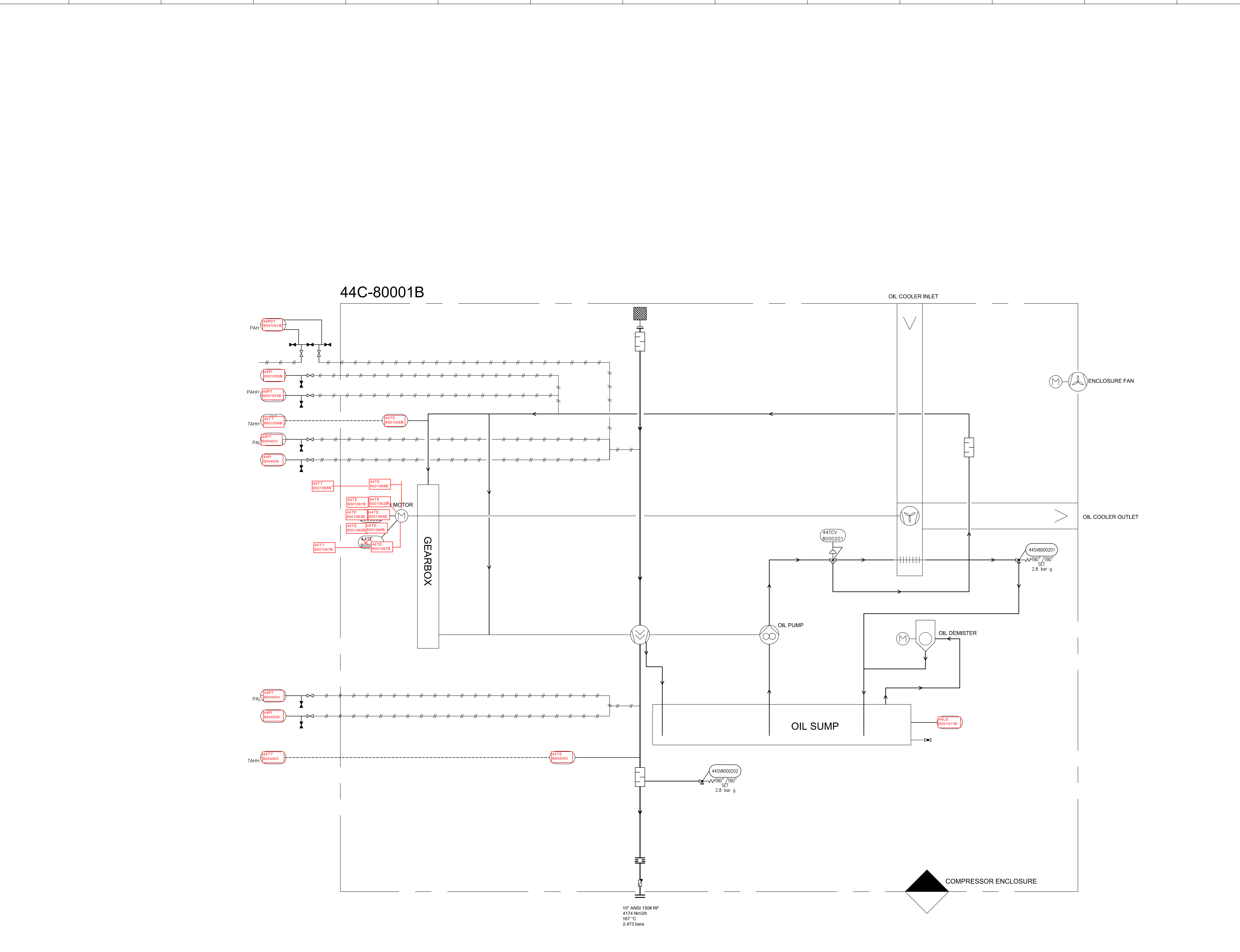
DRAWING TITLE: PIPING & INSTRUMENTATION DIAGRAM  
PNEUMATIC CONVEYING SYSTEM 44C-80001A

OWNER DOC. NO.

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0180	DYP	RE	800	PID	0016

SCALE: NONE SIZE: A0 SHEET NO. 1 OF 9 REV. 00

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ITEM	44C-80001B	44M-80001B
DESCRIPTION	Blower	Main Motor
TECHNICAL DATA	Outlet Capacity: 4174 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.013/2.473 Bara Inlet/Outlet Temp: 48/167 °C Gas: Air	Rated Power: 250 kW Speed: 2980 rpm Power Supply: 6kV / 50Hz / 3ph

GENERAL NOTES

1- -

LEGEND

DETAIL

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ

OWNER:  

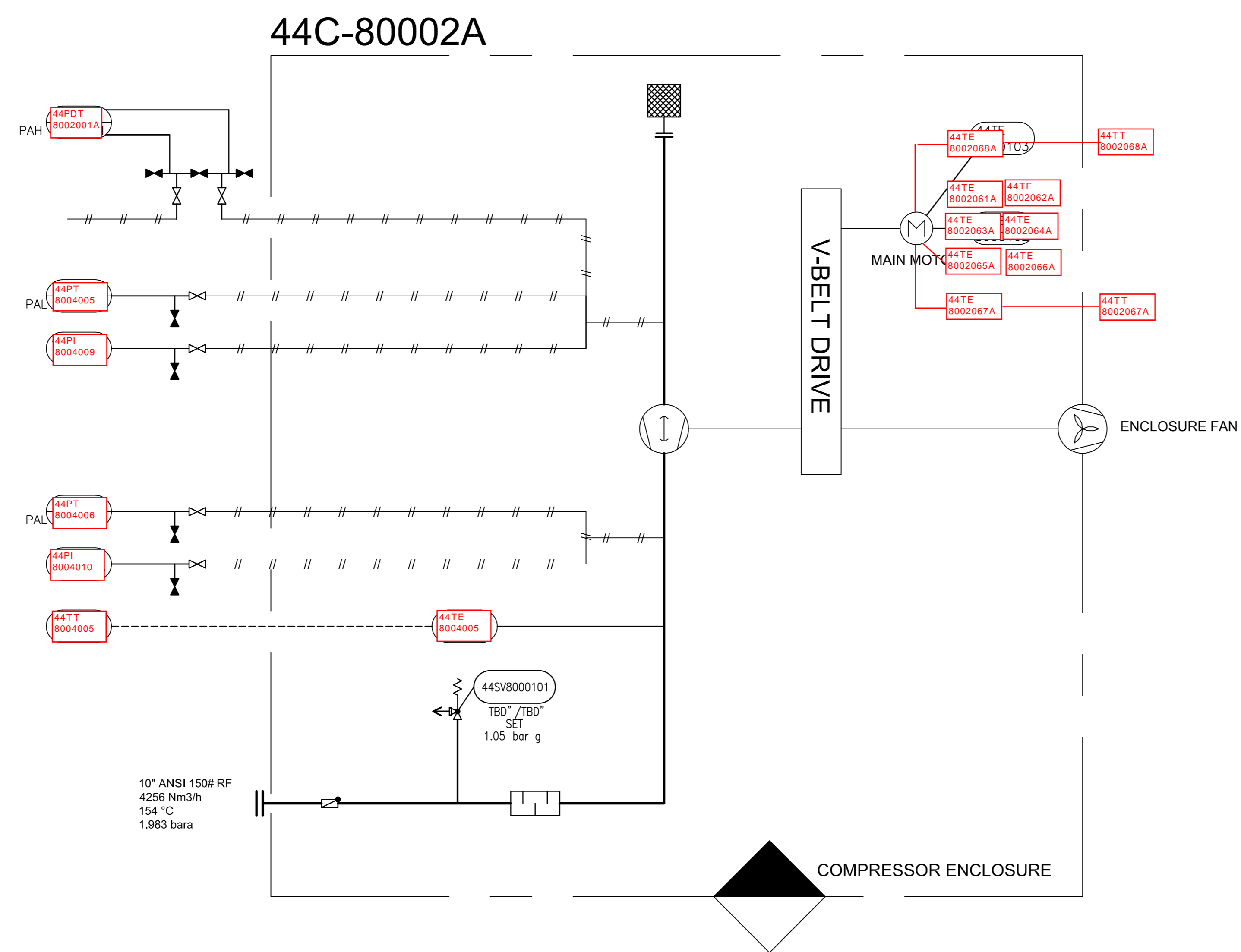
 300 KT POLYETHYLENE PLANT  
 ARYA SASOL POLYMER COMPANY (ASPC)

MC:  
 ISEDCO  
 DYPNF

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0180	DYP	RE	800	PID	0016

SCALE: NONE SIZE: A0 SHEET NO. 2 OF 9 REV. 00

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GENERAL NOTES

1- -

LEGEND

DETAIL

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ

OWNER:



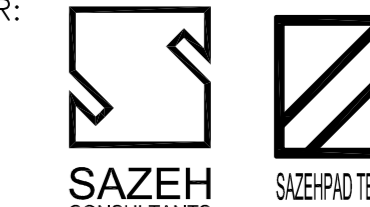
PROJECT:

300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC:



CONTRACTOR:



DRAWING TITLE:

PIPING & INSTRUMENTATION DIAGRAM  
PNEUMATIC CONVEYING TRANSPORT 44C-80002A

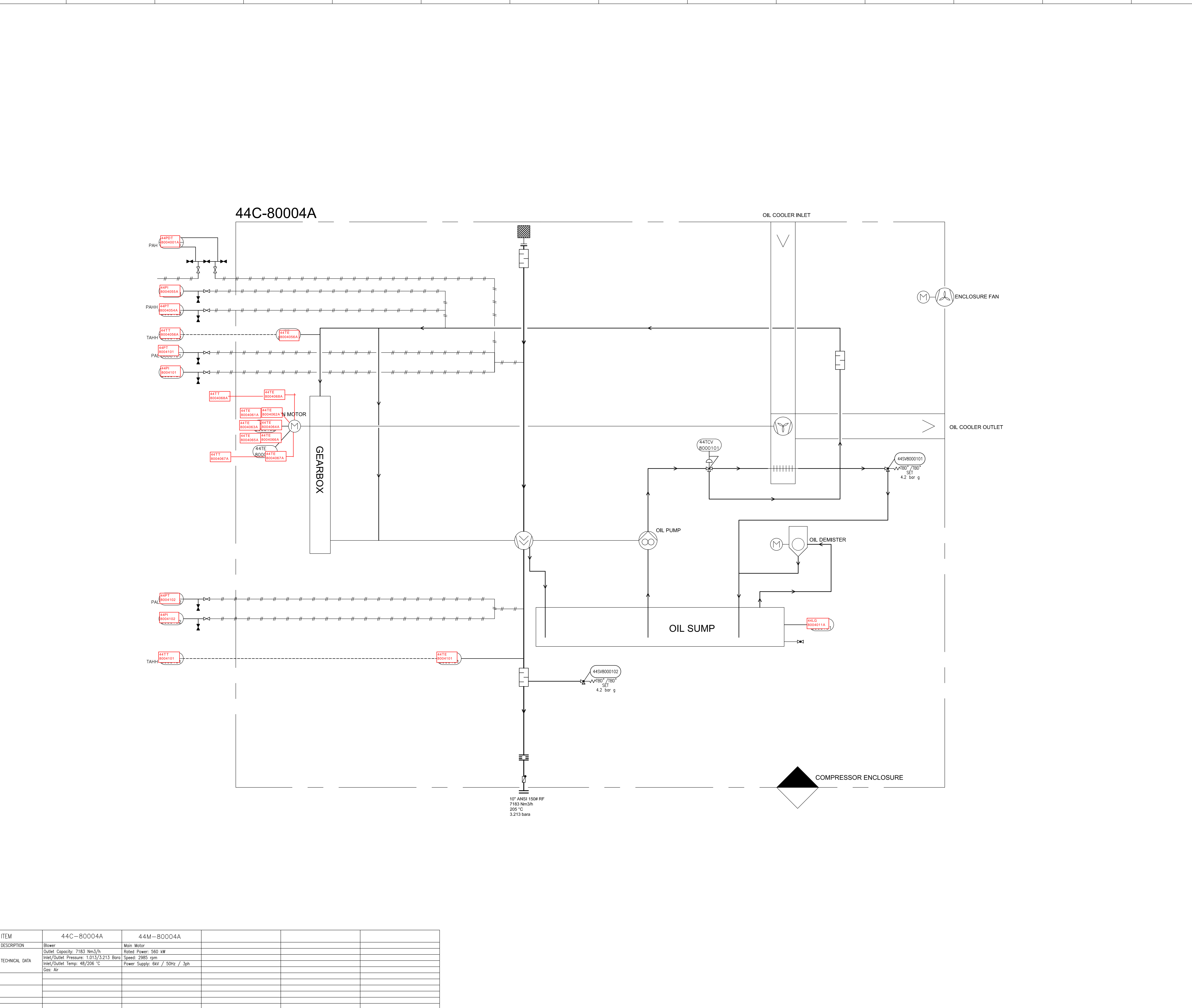
OWNER DOC. NO.

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0180	DYP	RE	800	PID	0016
SCALE:	NONE	SIZE:	A0	SHEET NO.	3 OF 9	REV.	00

ITEM	44C-80002A	44M-80002A			
DESCRIPTION	Blower	Main Motor			
TECHNICAL DATA	Outlet Capacity: 4256 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.013/1.983 Bara Inlet/Outlet Temp: 48/154 °C Gas: Air	Rated Power: 250 kW Speed: 1488 rpm Power Supply: 6kV / 50Hz / 3ph			

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ITEM	44C-80004A	44M-80004A		
DESCRIPTION	Blower	Main Motor		
TECHNICAL DATA	Outlet Capacity: 7183 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.013/3.213 Bara Inlet/Outlet Temp: 48/236 °C Gas: Air	Rated Power: 560 kW Speed: 2985 rpm Power Supply: 6kV / 50Hz / 3ph		

GENERAL NOTES

1- -

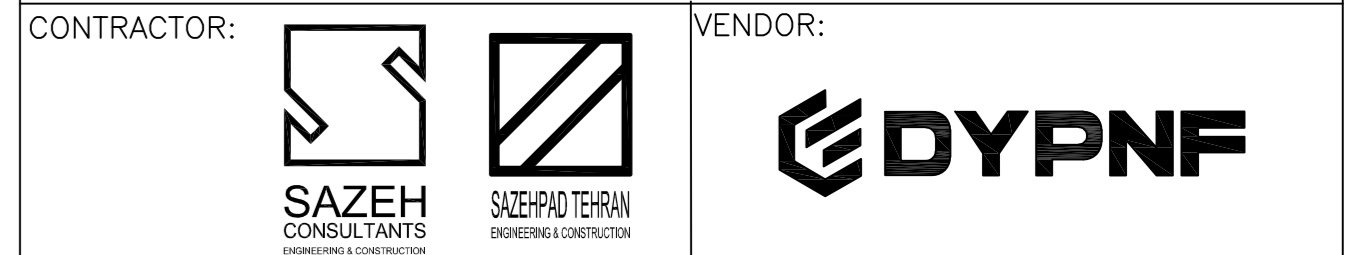
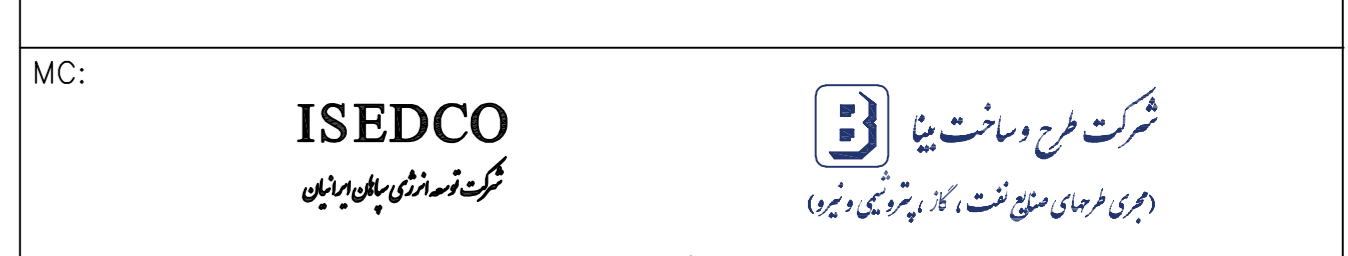
LEGEND

DETAIL

00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ
REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.



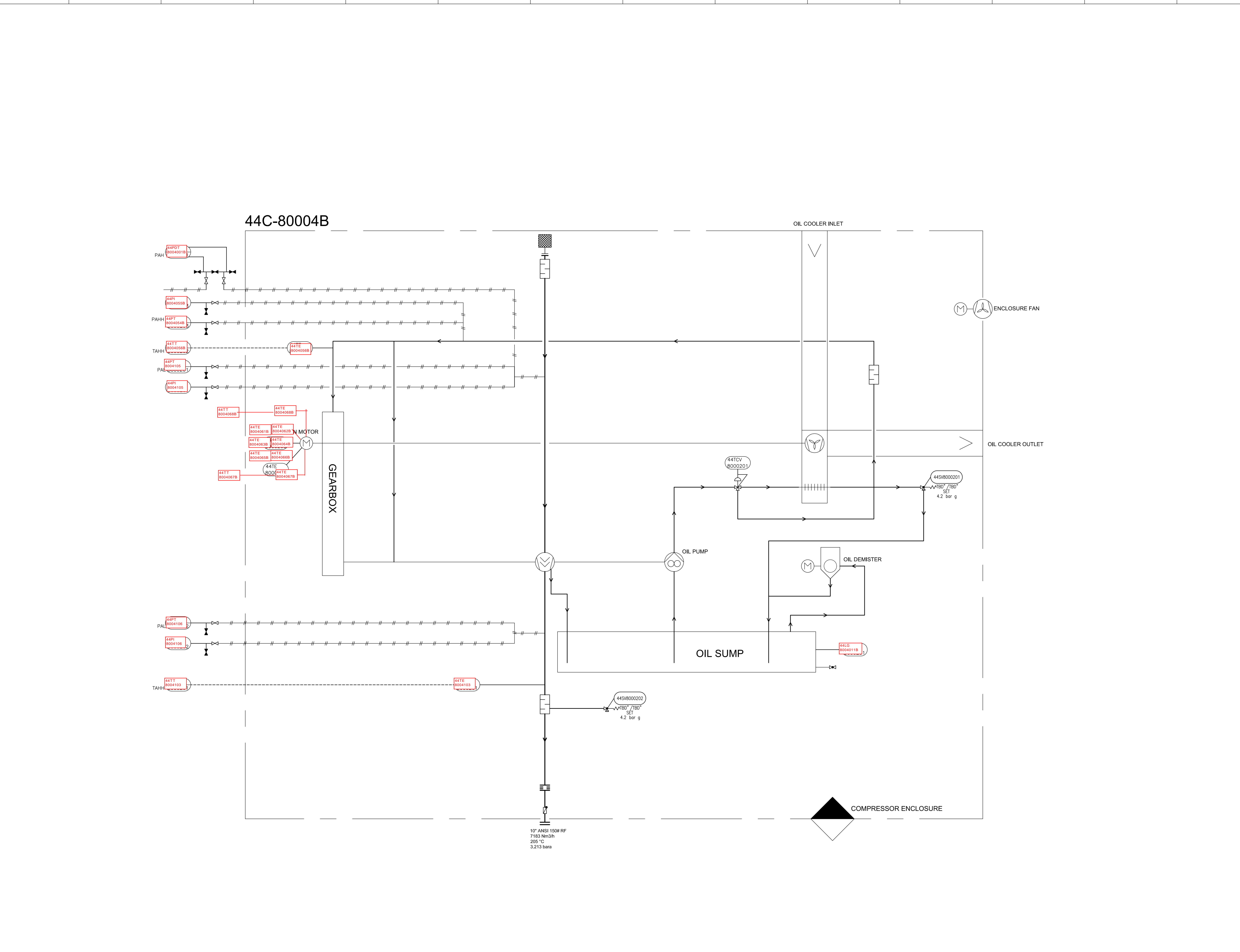
PROJECT:  
300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)



DRAWING TITLE:  
PIPING & INSTRUMENTATION DIAGRAM  
PNEUMATIC CONVEYING SYSTEM 44C-80004A

OWNER DOC. NO.					
OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT TYPE SEQ.
3944	VD	0180	DYP	RE	800 PID 0016
SCALE:	NONE	SIZE:	A0	SHEET NO.	5 OF 9 REV. 00

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ITEM	44C-80004B	44M-80004B		
DESCRIPTION	Blower	Main Motor		
TECHNICAL DATA	Outlet Capacity: 7183 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.013/3.213 Bara Inlet/Outlet Temp: 48/236 °C Gas: Air	Rated Power: 560 kW Speed: 2985 rpm Power Supply: 6kV / 50Hz / 3ph		

GENERAL NOTES

1- -

LEGEND

DETAIL

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ

OWNER:



PROJECT:  
300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC:  
ISEDCO  
شرکت عمران و مهندسی

CONTRACTOR:  
SAZEH CONSULTANTS  
SAZEPARTNER

VENDOR:  
DYPNF

DRAWING TITLE:  
PIPING & INSTRUMENTATION DIAGRAM  
PNEUMATIC CONVEYING SYSTEM 44C-80004B

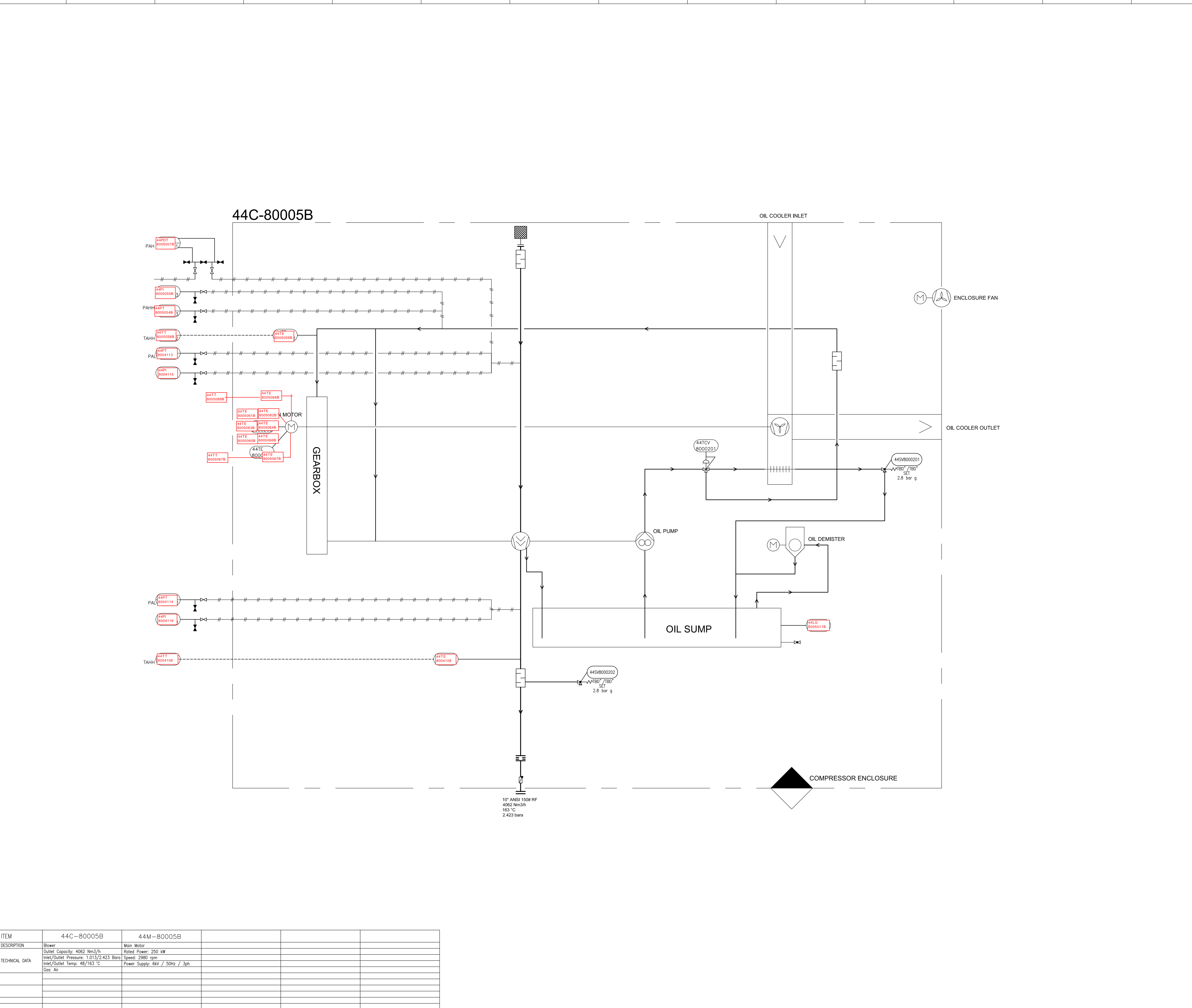
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OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0180	DYP	RE	800	PID	0016

SCALE: NONE SIZE: A0 SHEET NO. 6 OF 9 REV. 00

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ITEM	44C-80005B	44M-80005B		
DESCRIPTION	Blower	Main Motor		
TECHNICAL DATA	Outlet Capacity: 4062 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.013/2.423 Bara Inlet/Outlet Temp: 48/163 °C Gas: Air	Rated Power: 250 kW Speed: 2980 rpm Power Supply: 6kV / 50Hz / 3ph		

FILE REF.: 23383-03 P&ID.dwg

GENERAL NOTES

1- -

LEGEND

DETAIL

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ

OWNER:



PROJECT:  
300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC:  
ISEDCO  
شرکت عمران و مهندسی

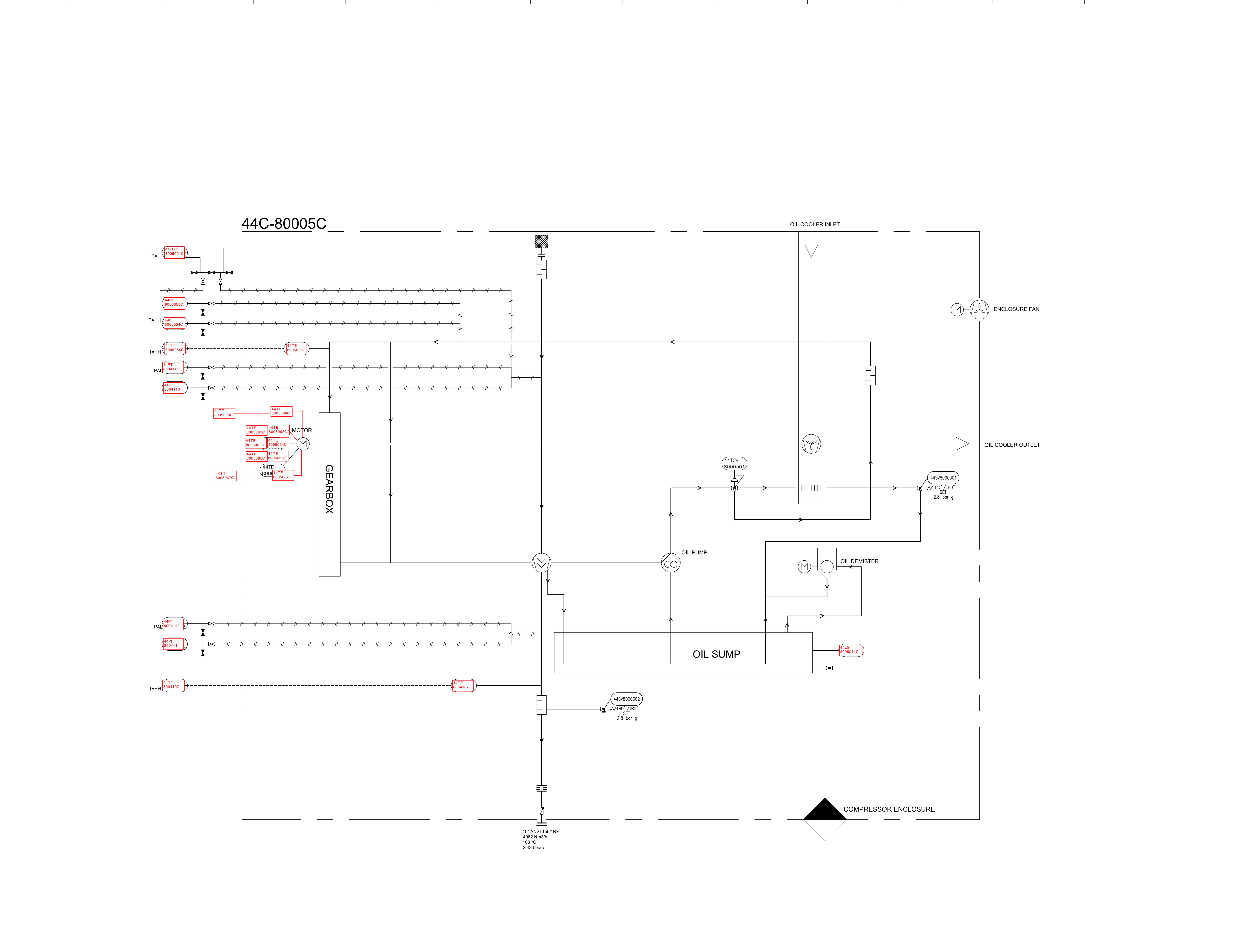
CONTRACTOR:  
SAZEH CONSULTANTS  
SAZEPARTNER



DRAWING TITLE:  
PIPING & INSTRUMENTATION DIAGRAM  
PNEUMATIC CONVEYING SYSTEM 44C-80005B

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0180	DYP	RE	800	PID	0016
SCALE: NONE	SIZE: A0	SHEET NO. 8 OF 9	REV. 00				

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ITEM	44C-80005C	44M-80005C		
DESCRIPTION	Blower	Main Motor		
TECHNICAL DATA	Outlet Capacity: 4062 Nm <sup>3</sup> /h Inlet/Outlet Pressure: 1.013/2.423 Bara Inlet/Outlet Temp: 48/163 °C Gas: Air	Rated Power: 250 kW Speed: 2980 rpm Power Supply: 6kV / 50Hz / 3ph		

GENERAL NOTES

1- -

LEGEND

DETAIL

REV.	DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
00	07/Feb/25	ISSUE FOR APPROVAL	SC	KP	JJ

OWNER:



PROJECT:  
300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC:  
ISEDCO  
شرکت مهندسی و مهندسی

CONTRACTOR:  
SAZEH CONSULTANTS  
SAZEPARTNER

VENDOR:  
DYPNF

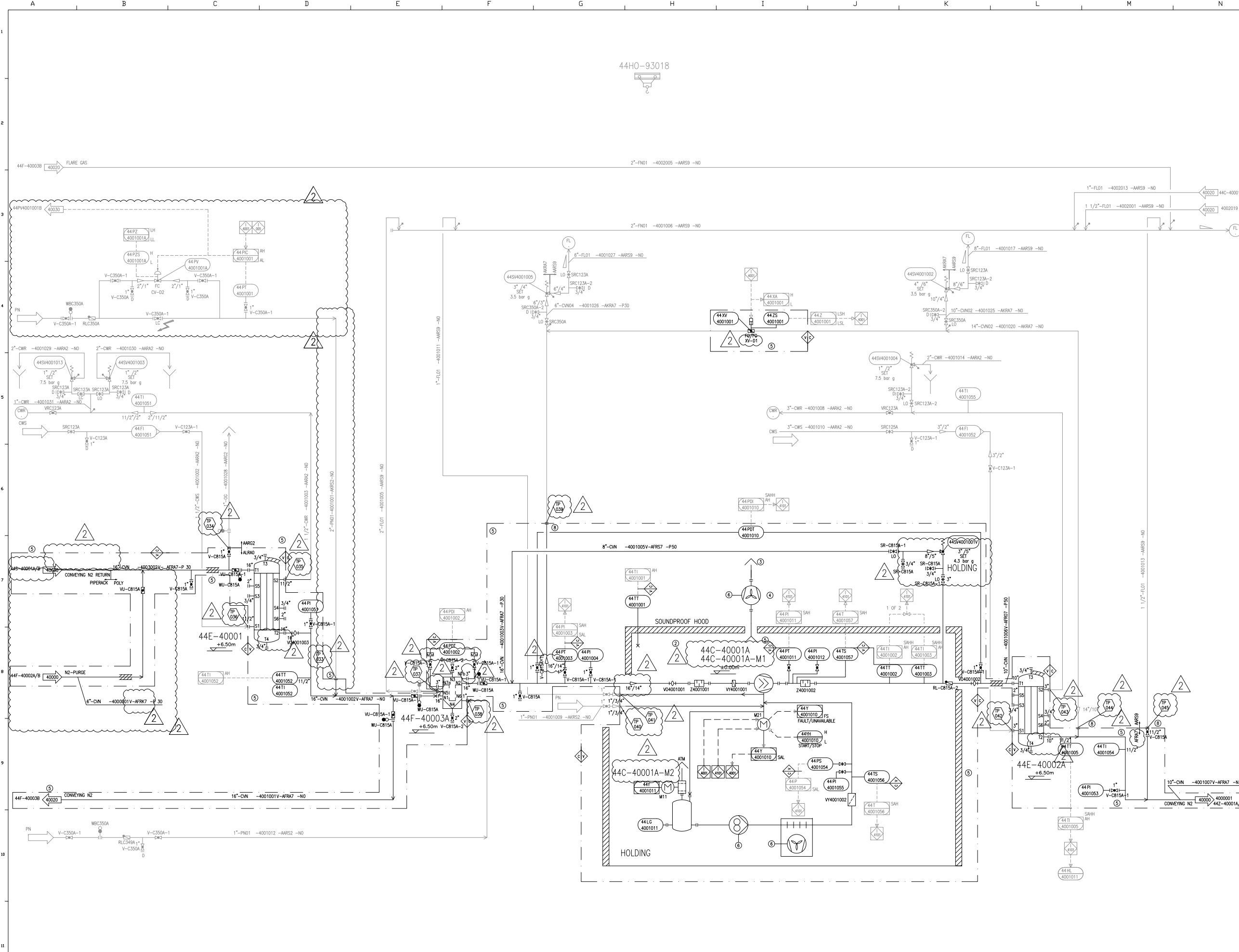
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PIPING & INSTRUMENTATION DIAGRAM  
PNEUMATIC CONVEYING SYSTEM 44C-80005C

OWNER PROJECT NO.	VENDOR DWG.	MR NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0180	DYP	RE	800	PID	0016

SCALE: NONE SIZE: A0 SHEET NO. 9 OF 9 REV. 00

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44HO-93018



**LEGEND**

- 1-4001 POWDER PNEUMATIC TRANSPORT
- 1-4101 44C-40001A PROTECTION
- 1-005 OFF GAS SYSTEM BACK FLOW PROTECTION

ITEM	44C-40001A	44E-40001	44E-40002A	44F-40003A
DESCRIPTION	Conveying gas compressor Type: Screw compressor	Suction cooler (Vertical) TEMP-BEM-YEMK-R	Discharge cooler (Vertical) TEMP-BEM-YEMK-R	Guard filter Flow: 6,416 Nm <sup>3</sup> /h Filter Elem.: FE Springridge (Anti-Static)
TECHNICAL DATA	Flow: 6,416 Nm <sup>3</sup> /h Differential Pressure: 1.84 bar	Duty: Later Diam.: Later mm	Duty: Later Diam.: Later mm	
DESIGN PRESS.	Design Pressure: Later bar g	Shell DP: 7.5 bar g Tube DP: 6.0 bar g	Shell DP: 7.5 bar g Tube DP: 6.0 bar g	DP: 6.0 bar g
DESIGN TEMP.	Design Temperature: Later °C	Shell DT: 80.00 °C Tube DT: 130.00 °C	Shell DT: 80.00 °C Tube DT: 215.00 °C	DT: 120.00 °C
MATERIAL	Casing: cast iron	Shell: SS316 / Tube: SS316	Shell: SS316 / Tube: SS316	SS316
TRIM LINE				

REV. DATE	PURPOSE OF ISSUE (P.O.I.)	PREP.	CHKD.	APPR.
02 10/Feb/25	FOR APPROVAL	SYL	HGL	MHY
01 19/Aug/24	FOR APPROVAL	SYL	HGL	MHY
00 18/Apr/24	FOR APPROVAL	SYL	HGL	MHY

OWNER: ARYA SASOL POLYMER COMPANY

PROJECT: 300 KT POLYETHYLENE PLANT  
ARYA SASOL POLYMER COMPANY (ASPC)

MC: ISEDCO

CONTRACTOR: SAZEH CONSULTANTS

VENDOR: DYPNF

DRAWING TITLE: PIPING & INSTRUMENTATION DIAGRAM 40010  
POWDER CONVEYING A

OWNER PROJECT NO.	VENDOR DWG. NO.	MR. NO.	VENDOR CODE	DISCIPLINE	UNIT	TYPE	SEQ.
3944	VD	0171	DYP	RE	400	PID	0016

SCALE: NONE SIZE: A0 SHEET NO. 3 OF 9 REV. 02

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