



ASPC Project



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

Customer Document : 3944-VD-0171-DYP-RE-400-DSH-0077
Number

Airpack Document Number : 23383-12A

Document Title : Instrument data sheet

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

03	Issued for Approval	11-12-2025	LK	SC	SC
02	Issued for Approval	06-10-2025	OGZ	LK	SC
01	Issued for Approval	20-06-2025	LK	SC	JJ
00	Issued for Approval	23-04-2025	LK	SC	JJ
Rev. No.	Description	Date	Prepared by	Checked by	Approved by

	INSTRUMENT DATA SHEET	
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Project Name :
**300 KT POLYETHYLENE PLANT
ARYA SASOL POLYMER COMPANY (ASPC)**

Site Location :

Document Title :
INSTRUMENT DATA SHEET

Document No :
23383-12A

03	11/12/2025	For Approval	LK	SC	
02	06/10/2025	For Approval	LK	SC	
01	20/06/2025	For Approval	LK	SC	
00	23/04/2025	For Approval	LK	SC	
Rev	Date	Description	Prepared	Reviewed	Approved

GENERAL	1	Tag Number		Refer to next page			
	2	Service		Refer to next page			
	3	P&ID No.		Refer to next page			
	4	Area Classification		Zone 2, Ex'ia', IIC, T3			
	5	Line No. or Vessel No.		Refer to next page			
	6	Pipe Class		Refer to next page			
	7	NACE Requirement		N/A			
PROCESS CONDITIONS	8	Fluid (State)		Refer to next page			
	9	Pressure Max (barg)	Oper.	Refer to next page	Refer to next page		
	10	Temperature Max. (°C)	Oper.	Refer to next page	Refer to next page		
	11	Oper. Spec. Gravity	Oper. Viscosity (cP)	Air: 1; N ₂ : 1,038		Air: 0,025 cP; N ₂ : 0,024 cP	
	12	Design Pressure (barg)	Design Temperature (°C)	4,2 barg		215 °C	
TRANSMITTER	13	Application		Pressure transmitter			
	14	Type		Diaphragm			
	15	Enclosure Class		IP65			
	16	Housing	Paint	Aluminium (epoxy coated)	Manufacturer standard		
	17	Power Supply	Load Resist	24VDC 2-wire loop powered	250 to 1100 ohm		
	18	Process Connection	Electrical Connection	1/2" NPT-M	ISO M20x1,5		
	19	Accuracy	Response Time	± 0.1% of span	100 ms to 152 ms		
	20	Output Signal		4-20 mA, HART			
	21	Element Material		SS316L			
	22	Wetted O - Ring Material		Glass-filled PTFE			
	23	Fill Fluid		Silicone			
	24	Instrument Range		-1,0 to 2,1 bar / -1,0 to 10,3 bar			
	25	Calibrated Range		Refer to next page			
	26	Elevation	Suppression	N/A	N/A		
27	Allow.Oper. Pressure	Allow.Oper.Temp.	-1,0 to 55 bar		-40 to 121 °C		
28							
DIAPHRAGM SEAL	29	Process Connection & Rating (H / L)		N/A			
	30	Diaphragm Material		N/A			
	31	Capillary Type / Material / Length (M)		N/A			
	32	Fill Fluid		N/A			
	33	Housing Material / Flange Material		N/A			
	34	Allowable Over Temperature		N/A			
	35	Flushing Connection	Flushing Ring	N/A	N/A		
MANIFOLD	36	Type	Body Material	2-way block&bleed	SS316		
	37	Trim	Packing	SS316	PTFE		
	38	Max. Rating Pressure	Temperature	4,2 barg	215 °C		
	39	Held Terminal		N/A			
	40	Process Conn.	Size	Type	Rating	1/2" NPT-F	800#
	41	Manufacturer		Schneider			
	42	Model		SAFFSA			
OPTIONS	43	Integral Meter	Scale	Yes, LCD	bar(g)		
	44	Lightning Protection		N/A			
	45	Pressure Testing		N/A			
	46	Mounting Brackets		Yes, SS316			
	47	Burnout		N/A			
PURCHASE	48	Manufacturer		Emerson			
	49	Model		Rosemount 2051 Pressure Transmitter			
	50						

Note. :

- Calibration, 3.1 material test, ATEX, SIL2 and IP certification to be included with transmitters

				PRESSURE TRANSMITTER		
03	LK	11/12/2025	For Approval			
02	LK	06/10/2025	For Approval			
01	LK	20/06/2025	For Approval			
00	LK	23/04/2025	For Approval			SHEET 2 OF 11
No.	By	Date	Revision	Code:	Doc. No.	23383-12 Rev.: 03

NO	TAG NO.	Q'TY	Line No. or Vessel No.	SET RANGE (Calibrated range) (barg)	OPERATING				FLUID (STATE)	SERVICE	PIPING CLASSIFICATION	P&ID NO.	NOTES
					PRESSURE NOR/MAX		TEMPERATURE NOR/MAX						
					(barg)		(°C)						
1	44PT-4001003	1	44C-40001A	-1...1	0	0.2	48	58	Nitrogen (Gas)	Nitrogen compressor inlet pressure	Mfr. Standard	23383-03	
2	44PT-4001054	1	44C-40001A	-1...5	2.5	3,5	55	100	Oil (liquid)	Nitrogen compressor oil pressure	Mfr. Standard	23383-03	
3	44PT-4001011	1	44C-40001A	-1...5	2	2.2	189	204	Nitrogen (Gas)	Nitrogen compressor outlet pressure	Mfr. Standard	23383-03	
4	44PT-4002003	1	44C-40001B	-1...1	0	0.2	48	58	Nitrogen (Gas)	Nitrogen compressor inlet pressure	Mfr. Standard	23383-03	
5	44PT-4002005	1	44C-40001B	-1...5	2.5	3,5	55	100	Oil (liquid)	Nitrogen compressor oil pressure	Mfr. Standard	23383-03	
6	44PT-4002001	1	44C-40001B	-1...5	2	2.2	189	204	Nitrogen (Gas)	Nitrogen compressor outlet pressure	Mfr. Standard	23383-03	
7	44PT-8004001	1	44C-80001A	-1...1	0	0.2	48	58	Air (Gas)	Air compressor inlet pressure	Mfr. Standard	23383-03	
8	44PT-8004041	1	44C-80001A	-1...5	2.5	4,2	55	100	Oil (liquid)	Air compressor oil pressure	Mfr. Standard	23383-03	
9	44PT-8004002	1	44C-80001A	-1...5	1,5	2	167	182	Air (Gas)	Air compressor outlet pressure	Mfr. Standard	23383-03	
10	44PT-8004003	1	44C-80001B	-1...1	0	0.2	48	58	Air (Gas)	Air compressor inlet pressure	Mfr. Standard	23383-03	
11	44PT-8004042	1	44C-80001B	-1...5	2.5	4,2	55	100	Oil (liquid)	Air compressor oil pressure	Mfr. Standard	23383-03	
12	44PT-8004004	1	44C-80001B	-1...5	1,5	2	167	182	Air (Gas)	Air compressor outlet pressure	Mfr. Standard	23383-03	
13	44PT-8004005	1	44C-80002A	-1...1	0	0.2	48	58	Air (Gas)	Roots blower inlet pressure	Mfr. Standard	23383-03	
14	44PT-8004006	1	44C-80002A	-1...5	1	1.3	154	169	Air (Gas)	Roots blower outlet pressure	Mfr. Standard	23383-03	
15	44PT-8004009	1	44C-80002B	-1...1	0	0.2	48	58	Air (Gas)	Roots blower inlet pressure	Mfr. Standard	23383-03	
16	44PT-8004010	1	44C-80002B	-1...5	1	1.3	154	169	Air (Gas)	Roots blower outlet pressure	Mfr. Standard	23383-03	
17	44PT-8004013	1	44C-80004A	-1...1	0	0.2	48	58	Air (Gas)	Air compressor inlet pressure	Mfr. Standard	23383-03	
18	44PT-8004043	1	44C-80004A	-1...5	2.5	3,5	55	100	Oil (liquid)	Air compressor oil pressure	Mfr. Standard	23383-03	
19	44PT-8004014	1	44C-80004A	-1...5	2.2	2.5	205	220	Air (Gas)	Air compressor outlet pressure	Mfr. Standard	23383-03	
20	44PT-8004016	1	44C-80004B	-1...1	0	0.2	48	58	Air (Gas)	Air compressor inlet pressure	Mfr. Standard	23383-03	
21	44PT-8004044	1	44C-80004B	-1...5	2.5	3,5	55	100	Oil (liquid)	Air compressor oil pressure	Mfr. Standard	23383-03	
22	44PT-8004017	1	44C-80004B	-1...5	2.2	2.5	205	220	Air (Gas)	Air compressor outlet pressure	Mfr. Standard	23383-03	
23	44PT-8005001	1	44C-80005A	-1...1	0	0.2	48	58	Air (Gas)	Air compressor inlet pressure	Mfr. Standard	23383-03	
24	44PT-8005041	1	44C-80005A	-1...5	2.5	4,2	55	100	Oil (liquid)	Air compressor oil pressure	Mfr. Standard	23383-03	
25	44PT-8005002	1	44C-80005A	-1...5	1,5	1.8	164	179	Air (Gas)	Air compressor outlet pressure	Mfr. Standard	23383-03	
26	44PT-8005004	1	44C-80005B	-1...1	0	0.2	48	58	Air (Gas)	Air compressor inlet pressure	Mfr. Standard	23383-03	
27	44PT-8005042	1	44C-80005B	-1...5	2.5	4,2	55	100	Oil (liquid)	Air compressor oil pressure	Mfr. Standard	23383-03	
28	44PT-8005005	1	44C-80005B	-1...5	1,5	1.8	164	179	Air (Gas)	Air compressor outlet pressure	Mfr. Standard	23383-03	
29	44PT-8005006	1	44C-80005C	-1...1	0	0.2	48	58	Air (Gas)	Air compressor inlet pressure	Mfr. Standard	23383-03	
30	44PT-8005043	1	44C-80005C	0...6	2.5	4,2	55	100	Oil (liquid)	Air compressor oil pressure	Mfr. Standard	23383-03	
31	44PT-8005007	1	44C-80005C	0...3	1,5	1.8	164	179	Air (Gas)	Air compressor outlet pressure	Mfr. Standard	23383-03	

Note.:

				PRESSURE TRANSMITTER								
03	LK	11/12/2025	For Approval									
02	LK	06/10/2025	For Approval									
01	LK	20/06/2025	For Approval									
00	LK	23/04/2025	For Approval					SHEET 3 OF 11				
No.	By	Date	Revision	Code:	Doc. No.: 23383-12				Rev.: 03			

GENERAL	1	Tag Number		Refer to next page			
	2	Service		Refer to next page			
	3	P&ID No.		Refer to next page			
	4	Area Classification		Zone 2, Ex'ia', IIC, T3			
	5	Line No. or Vessel No.		Refer to next page			
	6	Pipe Class		Refer to next page			
	7	NACE Requirement		N/A			
PROCESS CONDITIONS	8	Fluid (State)		Refer to next page			
	9	Pressure Max (barg)	Oper.	Refer to next page	Refer to next page		
	10	Temperature Max. (°C)	Oper.	Refer to next page	Refer to next page		
	11	Oper. Spec. Gravity	Oper. Viscosity (cP)	Air: 1; N ₂ : 1,038		Air: 0,025 cP; N ₂ : 0,024 cP	
	12	Design Pressure (barg)	Design Temp. (°C)	4,2 barg		215 °C	
TRANSMITTER	13	Application		Pressure differential transmitter			
	14	Type		Diaphragm			
	15	Enclosure Class		IP65			
	16	Housing	Paint	Aluminium (epoxy coated)	Manufacturer standard		
	17	Power Supply	Load Resist	24VDC 2-wire loop powered	250 to 1100 ohm		
	18	Process Connection	Electrical Connection	1/2" NPT-M	ISO M20x1,5		
	19	Accuracy	Response Time	± 0.1% of span	100 ms to 152 ms		
	20	Output Signal		4-20 mA, HART			
	21	Element Material		SS316L			
	22	Wetted O - Ring Material		Glass-filled PTFE			
	23	Fill Fluid		Silicone			
	24	Instrument Range		-2,5 to 2,5 bar			
	25	Calibrated Range		Refer to next page			
	26	Elevation	Suppression	N/A	N/A		
27	Allow.Oper. Pressure	Allow.Oper.Temp.	-1,0 to 55 bar		-40 to 149 °C		
28							
DIAPHRAGM SEAL	29	Process Connection & Rating (H / L)		N/A			
	30	Diaphragm Material		N/A			
	31	Capillary Type / Material / Length		N/A			
	32	Fill Fluid		N/A			
	33	Housing Material / Flange Material		N/A			
	34	Allowable Over Temperature		N/A			
	35	Flushing Connection	Flushing Ring	N/A	N/A		
MANIFOLD	36	Type	Body Material	5-way manifold	SS316		
	37	Trim	Packing	SS316	PTFE		
	38	Max. Rating	Pressure	Temperature	4,2 barg	215 °C	
	39	Held Terminal		N/A			
	40	Process Conn.	Size	Type	Rating	1/2" NPT-F	800#
	41	Manufacturer		Schneider			
	42	Model		WSRASA			
OPTIONS	43	Integral Meter	Scale	Yes, LCD	bar(g)		
	44	Lightning Protection		N/A			
	45	Pressure Testing		N/A			
	46	Mounting Brackets		Yes, SS316			
	47	Burnout		N/A			
PURCHASE	48	Manufacturer		Emerson			
	49	Model		Rosemount 2051 Coplanar Pressure Transmitter			
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Note. :

- Calibration, 3.1 material test, ATEX, SIL2 and IP certification to be included with transmitters

				D/P TYPE PRESSURE TRANSMITTER		
03	LK	11/12/2025	For Approval			
02	LK	06/10/2025	For Approval			
01	LK	20/06/2025	For Approval			
00	LK	23/04/2025	For Approval			SHEET 4 OF 11
No.	By	Date	Revision	Code:	Doc. No.	23383-12
						Rev.: 03

GENERAL	1	Tag Number		Refer to next sheet	
	2	Service		Refer to next sheet	
	3	P&ID No.		Refer to next sheet	
	4	Area Classification		Zone 2, Ex'ia, IIC, T3	
	5	Line No. or Vessel No.		Refer to next sheet	
	6	Pipe Class		Refer to next sheet	
	7	NACE Requirement		N/A	
	8				
PROCESS CONDITIONS	9	Fluid (State)		Refer to next sheet	
	10	Pressure Max (MPaG)	Oper.	Refer to next sheet	Refer to next sheet
	11	Temperature Max. (°C)	Oper.	Refer to next sheet	Refer to next sheet
	12	Oper. Spec.Gravity	Oper. Viscosity (cP)	Air: 1; N ₂ : 1,038	Air: 0,025 cP; N ₂ : 0,024 cP
	13	Design Pressure (barg)		4,2 barg	
	14	Design Temperature (°C)		215 °C	
TRANSMITTER	15	Type		Field mounted transmitter	
	16	RTD Types Supported		N/A	
	17	Thermocouple Supported Types		Type 'K'	
	18	MV Supported Type		N/A	
	19	Cold Junction Compensation		Internal compensation	
	20	Enclosure Class		IP65	
	21	Housing	Paint	Aluminium (epoxy coated)	Manufacturer standard
	22	Power Supply	Load Resist	24VDC, 2-wire loop powered	250 to 1100 ohm
	23	Process Connection	Electrical Connection	N/A	ISO M20x1,5
	24	Accuracy	Response Time	± 0.2% of span	
	25	Output Signal		4-20mA, HART	
	26	Range Limits		-200 to 1000 °C	
	27	Calibrated Range		Refer to next sheet	
	28	Display		Digital, LCD	
29					
30					
COMMUNICATION AND SOFTWARE	31	Communication Type		Smart, HART	
	32	Baud - Rate		N/A	
	33	Communication with:		N/A	
	34	Configuration from:		N/A	
	35	Internal Diagnostics		Yes	
	36	Held Terminal		N/A	
	37				
OPTIONS	38	Integral Meter	Scale	Yes	°C
	39	Lightning Protection		N/A	
	40	Custom Configuration		N/A	
	41	Mounting Brackets		Yes	
	42	Burnout		Overrange	
PURCHASE	43	Manufacturer		Emerson	
	44	Model		Rosemount 644 Temperature Transmitter	
	45				
	46				
	47				

Note. :

- Calibration, ATEX, SIL2 and IP certification to be included with transmitters

				TEMPERATURE TRANSMITTER			
03	LK	11/12/2025		For Approval			
02	LK	06/10/2025		For Approval			
01	LK	20/06/2025		For Approval			
00	LK	23/04/2025		For Approval		SHEET 6 OF 11	
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NO.	TAG NO.	Q'TY	OPERATING				CALIBRATION RANGE	FLUID (STATE)	SERVICE	LINE NO. /VESSEL NO.	PIPING CLASS.	P&ID NO.	NOTES
			TEMP.		PRESSURE								
			NOR/MAX	NOR/MAX	NOR/MAX	NOR/MAX							
(°C)	barg												
1	44TT-4001056	1	55	100	2,5	3,5	-50...300	Oil (Liquid)	Oil system temperature	44C-40001A	Mfr. std	23383-03	
2	44TT-4001057	1	189	204	1,903	2,2	-50...300	Nitrogen (Gas)	Outlet temperature	44C-40001A	Mfr. std	23383-03	
3	44TT-4001001	1	30	60	0	0,2	0...100	Air (Gas)	Enclosure temperature	44C-40001A	Mfr. std	23383-03	
4	44TT-4002056	1	55	100	2,5	3,5	-50...300	Oil (Liquid)	Oil system temperature	44C-40001B	Mfr. std	23383-03	
5	44TT-4002057	1	189	204	1,903	2,2	-50...300	Air (Gas)	Outlet temperature	44C-40001B	Mfr. std	23383-03	
6	44TT-4002001	1	30	60	0	0,2	0...100	Air (Gas)	Enclosure temperature	44C-40001B	Mfr. std	23383-03	
7	44TT-8004041	1	55	100	2,5	4,2	-50...300	Oil (Liquid)	Oil system temperature	44C-80001A	Mfr. std	23383-03	
8	44TT-8004001	1	167	182	1,473	1,7	-50...300	Air (Gas)	Outlet temperature	44C-80001A	Mfr. std	23383-03	
9	44TT-8004042	1	55	100	2,5	4,2	-50...300	Oil (Liquid)	Oil system temperature	44C-80001B	Mfr. std	23383-03	
10	44TT-8004003	1	167	182	1,473	1,7	-50...300	Air (Gas)	Outlet temperature	44C-80001B	Mfr. std	23383-03	
11	44TT-8004005	1	154	169	0,983	1,067	-50...300	Air (Gas)	Outlet temperature	44C-80002A	Mfr. std	23383-03	
12	44TT-8004007	1	154	169	0,983	1,067	-50...300	Air (Gas)	Outlet temperature	44C-80002B	Mfr. std	23383-03	
13	44TT-8004043	1	55	100	2,5	3,5	-50...300	Oil (Liquid)	Oil system temperature	44C-80004A	Mfr. std	23383-03	
14	44TT-8004009	1	205	220	2,213	3,5	-50...300	Air (Gas)	Outlet temperature	44C-80004A	Mfr. std	23383-03	
15	44TT-8004044	1	55	100	2,5	3,5	-50...300	Oil (Liquid)	Oil system temperature	44C-80004B	Mfr. std	23383-03	
16	44TT-8004011	1	205	220	2,213	3,5	-50...300	Air (Gas)	Outlet temperature	44C-80004B	Mfr. std	23383-03	
17	44TT-8005041	1	55	100	2,5	4,2	-50...300	Oil (Liquid)	Oil system temperature	44C-80005A	Mfr. std	23383-03	
18	44TT-8005001	1	164	179	1,423	1,7	-50...300	Air (Gas)	Outlet temperature	44C-80005A	Mfr. std	23383-03	
19	44TT-8005042	1	55	100	2,5	4,2	-50...300	Oil (Liquid)	Oil system temperature	44C-80005B	Mfr. std	23383-03	
20	44TT-8005003	1	164	179	1,423	1,7	-50...300	Air (Gas)	Outlet temperature	44C-80005B	Mfr. std	23383-03	
21	44TT-8005043	1	55	100	2,5	4,2	-50...300	Oil (Liquid)	Oil system temperature	44C-80005C	Mfr. std	23383-03	
22	44TT-8005004	1	164	179	1,423	1,7	-50...300	Air (Gas)	Outlet temperature	44C-80005C	Mfr. std	23383-03	

Note :

No.	By	Date	Revision	Doc. No.:	23383-12	Rev.:	03
03	LK	11/12/2025	For Approval	TEMPERATURE TRANSMITTER			
02	LK	06/10/2025	For Approval				
01	LK	20/06/2025	For Approval				
00	LK	23/04/2025	For Approval				

GENERAL	1	Tag Number	Refer to next sheet	
	2	Service	Refer to next sheet	
	3	P&ID No.	Refer to next sheet	
	4	Area Classification	Zone 2, Ex'ia, IIC, T3	
	5	Line No. or Vessel No.	Refer to next sheet	
	6	Pipe Class	Refer to next sheet	
PROCESS CONDITIONS	7	Fluid (State)	Refer to next sheet	
	8	Oper. Temperature (°C)	Max. Temperature	Refer to next sheet
	9	Oper. Pressure (kg/cm2)	Max. Pressure	Refer to next sheet
	10	Vibrations	N/A	
	11	Design Pressure (barg)	4,2 barg	
	12	Design Temperature (°C)	215 °C	
ELEMENT	13	Type	Sensor with lead wire, transition and relief spring	
	14	T/C	Type of thermocouple	Type 'K'
	15		Accuracy class	DIN - IEC-EN 60584 Class 1
	16	RTD	Material	Resistance
	17		Material	Resistance
	18		Wire Material/Gage	N/A
	19	Accuracy	N/A	
	20	Single/Double or Other	Double	
	21	Sheath Material / O.D	SS316	6 mm
	22	Sheath Length (Element Length)	Refer to next sheet	
	23	Type of cable	Armoured	
	24	Cable length	10 m	
	25	Process connection	Refer to next sheet	
HEAD	26	Type	N/A	
	27	Material	N/A	
	28	Terminal Block	N/A	
	29	Electrical connection	N/A	
	30	Extension Type	N/A	
	31	Nipple & Union Size	N/A	
	32	Nipple & Union Length	N/A	
	33	Spring Loaded	N/A	
	34	Enclosure Class	N/A	
	35			
WELL	36	Process Connection	N/A	
	37	Material (Well/Flange)	N/A	
	38	Sheating	Coating	N/A
	39	Construction Type	N/A	
	40	Internal Connection (Sensor connection)	N/A	
	41	Length Below Thread / Flanged (U Length)	N/A	
	42	T Length (Lagging Extension)	N/A	
	43	Bore Diameter	N/A	
	44	Tip Thickness	N/A	
	45	Max. Inertion Diameter	N/A	
	46	Min. Inertion Diameter	N/A	
	47	Tapered Length	N/A	
	48	Plug & Chain	N/A	
	49	Overall Length	N/A	
	50	Treatments	Finish	N/A
	51	Stamping		
	52	Strength Calculation	N/A	
53	Vent hole	N/A		
54				
OPTIONS	55	Back-up Flange	N/A	
	56	Weldolet Fitting	N/A	
	57			
PURCHASE	58	Manufacturer	Ashcroft	
	59	Model	S80-TC	
	60			
	61			
	62			

Notes:
- Calibration, ATEX and IP certification to be included.

03	LK	11/12/2025	For Approval	THERMOCOUPLE FOR TEMPERATURE TRANSMITTER	SHEET 8 OF 11	
02	LK	06/10/2025	For Approval			
01	LK	20/06/2025	For Approval			
00	LK	23/04/2025	For Approval			
No.	By	Date	Revision	Code:	Doc. No.: 23383-12	Rev.: 03

NO	TAG NO.	Q'TY	RANGE (°C)	TEMP.		PRESS.		U-length (mm)	FLUID (STATE)	SERVICE	LINE NO. / VESSEL NO.	Process connection	P&ID NO.	NOTES
				Oper	MAX	Oper	MAX							
				(°C)		barg								
1	44TE-4001056	1	-50...300	55	100	2,5	3,5	45	Oil (Liquid)	Oil system temperature	44C-40001A	3/8" BSP	23383-03	
2	44TE-4001057	1	-50...300	189	204	1,903	2,2	100	Nitrogen (Gas)	Outlet temperature	44C-40001A	1/2" BSP	23383-03	
3	44TE-4001001	1	0...100	30	60	0	0,2	100	Air (Gas)	Enclosure temperature	44C-40001A	1/2" BSP	23383-03	
4	44TE-4002056	1	-50...300	55	100	2,5	3,5	45	Oil (Liquid)	Oil system temperature	44C-40001B	3/8" BSP	23383-03	
5	44TE-4002057	1	-50...300	189	204	1,903	2,2	100	Air (Gas)	Outlet temperature	44C-40001B	1/2" BSP	23383-03	
6	44TE-4002001	1	0...100	30	60	0	0,2	100	Air (Gas)	Enclosure temperature	44C-40001B	1/2" BSP	23383-03	
7	44TE-8004041	1	-50...300	55	100	2,5	4,2	45	Oil (Liquid)	Oil system temperature	44C-80001A	3/8" BSP	23383-03	
8	44TE-8004001	1	-50...300	167	182	1,473	1,7	100	Air (Gas)	Outlet temperature	44C-80001A	1/2" BSP	23383-03	
9	44TE-8004042	1	-50...300	55	100	2,5	4,2	45	Oil (Liquid)	Oil system temperature	44C-80001B	3/8" BSP	23383-03	
10	44TE-8004003	1	-50...300	167	182	1,473	1,7	100	Air (Gas)	Outlet temperature	44C-80001B	1/2" BSP	23383-03	
11	44TE-8004005	1	-50...300	154	169	0,983	1,067	100	Air (Gas)	Outlet temperature	44C-80002A	1/2" BSP	23383-03	
12	44TE-8004007	1	-50...300	154	169	0,983	1,067	100	Air (Gas)	Outlet temperature	44C-80002B	1/2" BSP	23383-03	
13	44TE-8004043	1	-50...300	55	100	2,5	3,5	45	Oil (Liquid)	Oil system temperature	44C-80004A	3/8" BSP	23383-03	
14	44TE-8004009	1	-50...300	205	220	2,213	3,5	100	Air (Gas)	Outlet temperature	44C-80004A	1/2" BSP	23383-03	
15	44TE-8004044	1	-50...300	55	100	2,5	3,5	45	Oil (Liquid)	Oil system temperature	44C-80004B	3/8" BSP	23383-03	
16	44TE-8004011	1	-50...300	205	220	2,213	3,5	100	Air (Gas)	Outlet temperature	44C-80004B	1/2" BSP	23383-03	
17	44TE-8005041	1	-50...300	55	100	2,5	3,5	45	Oil (Liquid)	Oil system temperature	44C-80005A	3/8" BSP	23383-03	
18	44TE-8005001	1	-50...300	164	179	1,423	1,7	100	Air (Gas)	Outlet temperature	44C-80005A	1/2" BSP	23383-03	
19	44TE-8005042	1	-50...300	55	100	2,5	4,2	45	Oil (Liquid)	Oil system temperature	44C-80005B	3/8" BSP	23383-03	
20	44TE-8005003	1	-50...300	164	179	1,423	1,7	100	Air (Gas)	Outlet temperature	44C-80005B	1/2" BSP	23383-03	
21	44TE-8005043	1	-50...300	55	100	2,5	4,2	45	Oil (Liquid)	Oil system temperature	44C-80005C	3/8" BSP	23383-03	
22	44TE-8005004	1	-50...300	164	179	1,423	1,7	100	Air (Gas)	Outlet temperature	44C-80005C	1/2" BSP	23383-03	

NOTES:

				THERMOCOUPLE FOR TEMPERATURE TRANSMITTER										
03	LK	11/12/2025	For Approval											
02	LK	06/10/2025	For Approval											
01	LK	20/06/2025	For Approval											
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GENERAL	1 Tag Number		Refer to next page		
	2 Service		Refer to next page		
	3 P&ID No.		Refer to next page		
	4 Line No. or Vessel No.		Refer to next page		
	5 Pipe Class		Refer to next page		
PROCESS CONDITIONS	6 Fluid (State)		Refer to next page		
	7 Max. Pressure (BarG)	Max. Temperature (°C)	Refer to next page		Refer to next page
	8 Oper. Pressure (BarG)	Oper. Temperature (°C)	Refer to next page		Refer to next page
	9 Pulsation	Vibration	N/A		N/A
	10 Design Pressure (BarG)	Refer to next page			
GAUGE	12 Type		Bourdon tube		
	13 Range		Refer to next page		
	14 Figure Interval		N/A		
	15 Minor Graduation		N/A		
	16 Mounting		Panel mounted with front flange		
	17 Dial Size		100 mm		
	18 Dial Color		White, black numbers		
	19 Case Material		SS316		
	20 Ring Construction	Ring Material	Bayonet		SS316
	21 Blow-Out Protection		Yes @ back		
	22 Lens Material		Shatterproof laminated safety glass		
	23 Pressure Element Type		Bourdon tube		
	24 Pressure Element Material		SS316		
	25 Socket Material		SS316		
	26 Process Connection Size		1/2" NPT-M		
27 Connection Location		Bottom back			
28 Movement Material		SS316			
29 Nominal Accuracy		±1,0 % of span			
30 Over Range Protection		1,3 x full scale value			
31 NACE Requirement		N/A			
32 Accuracy		±1,0 % of span			
DIAPHRAGM SEAL	33 Type		N/A		
	34 Process Connection		N/A		
	35 Diaphragm Material		N/A		
	36 Fill Fluid (including Allowable condition)		N/A		
	37 Flushing Connection		N/A		
	38 Capillary Length		N/A		
	39 Capillary Material		N/A		
	40 Bottom Housing Material		N/A		
	41 Top Housing Material		N/A		
	42 Connection to Instrument		N/A		
OPTIONS	45 Syphon: Type		Material		N/A
	46 Snubber: Type		Material		N/A
	47 Gauge Union		N/A		
	48 Manifold Valve Type	Material	Size	2-way B&B manifold	SS316 1/2"
	49 Liquid Filled Type		Yes, Glycerine		
PURCHASE	50 Flush Ring		N/A		
	51 Manufacturer		Wika		
	52 Model		233.30		
	53				
54					
55					

Notes:
- Calibration, 3.1 material test, and IP certification to be included with gauges

				PRESSURE GAUGE					
03	LK	11/12/2025	For Approval						
02	LK	06/10/2025	For Approval						
01	LK	20/06/2025	For Approval						
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