



Vendor	ABT 360 KT/Y PP PLANT Project			Owner
	Instrument data sheet			
	Vendor's Doc. No.: 23249-12	Rev.: 00		
	PPEC Doc. No.: L03-RE037-IN-DSH-003			

PPEC REQ. NO. : L03-RE037-IN-DSH-003

ITEM NO. :

TOTAL PAGES : 19

- 1) instrument tag numbers to be corrected
- 2) SIL level for each device shall be finalised based on SIL study report
- 3) hazardous area shall be considered ZONE2 IICT3 , please confirm

- **NO COMMENTS** : Documents/Drawings Were Checked By PPEC And Further Step Can Be Followed.
- **COMMENTED AS MARKED**: Documents/Drawings Were Checked By PPEC And Marked Comments Must Be Considered By Vendor. Vendor Shall Revise Documents/Drawing As Per Comments And The New Revision Of Documents/Drawings Must Be Revised Prior To Fabrication.
- **REJECTED**: Documents/Drawings Were Checked And It Is Not In Comply With Purchase Requisition Requirements.
- **ACCEPTABLE WITH COMMENTS**: Documents/Drawings Were Checked By PPEC And Comments Must Be Considered By Vendor. Fabrication Can Proceed Accordingly. Revised Document To Be Issued Either For Review Or As Final Certified. However PPEC Will Check The Revised Document For Proper Incorporation Of Comments.
- **NOT RETURNED**: Document Was Received For Information And Not Returned To The Vendor.



Name :
Signature:
Date :

Req. No. :

Seq. No.:

PPEC review & comments does not absolve the vendor of the responsibility for the corrected design, manufacturing and operation of the equipment



00	23-04-2025	Issue for Engineering	L.K	S.K.	J.J.	
REV.	DATE	Description	Prepared by	Checked by	Approved by	Authorized by

Vendor 	ABT 360 KT/Y PP PLANT		Contractor (DEC)	Owner  سراج گستران رجال SERAJ GOSTARAN REJAL (سهایی خانی)
	Instrument data sheet			
	Vendor's Doc. No.: 2 3 2 4 9 - 1 2 PPEC Doc. No.: L03-RE037-IN-DSH-003	Rev.: 00		

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		FIRST ISSUE	SECOND ISSUE	THIRTH ISSUE	FOURTH ISSUE	FIFTH ISSUE	SIXTH ISSUE	
		REV.00	REV.01	REV.02	REV.03	REV.04	REV.05	
1		X						
2		X						
3		X						
4		X						
5		X						
6		X						
7		X						
8		X						
9		X						
10		X						
11		X						
12		X						
13		X						
14		X						
15		X						
16		X						
17		X						
18		X						
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Notes:


				INSTRUMENT AND VALVE DATASHEET Index 	
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4) for pressure gauges , minimum , normal and maximum operating pressures to be specified

23249-12
00
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G	Ingress Protection				IP65	
PROCESS CONDITIONS	9	Fluid	State	Oil	Liquid	
	10	Pressure	Norm. Max.	min 1,5 bar(g)		
	11	Temperature	Norm. Max.			
	12	Design	Press. Temp.	TBA	TBA	
	13	Ambient Temp.	Min. Max.	1 °C	55 °C	
	14					
	15					
	16					
GAUGE	19	Type	Bourdon tube			
	20	Range	Unit	-1...5	bar(g)	
	21	Mounting	Locally mounted			
	22	Dial Size	Dial Color	100 mm	White, Black numbers	
	23	Case Material	SS 316			
	24	Ring Construction	Ring Material	Bayonet	SS 316	
	25	Blow-Out Protection	Yes @ Back			
	26	Lens Material	Shatterproof laminated safety glass			
	27	Pressure Element Material	SS 316			
	28	Socket Material	SS 316			
	29	Connection Size	1/2" NPT-M			
	30	Connection Location	Bottom back			
	31	Movement Material	SS316			
	32	Nominal Accuracy	±1,0 % of span			
	33	Gauge Filling	Glycerine / Silicone oil			
	34	Over Range Protection	1,3 x full scale value			
	OPTIONS	38	Snubber	Material	N/A	N/A
		39	Gauge Savers	Material	N/A	N/A
40		Manifold (Block & Bleed)	No	N/A	N/A	
41		Block valve (Hand ball valve)	No			
42						
43						
CERTIFICATES	45	Calibration certificate	Yes			
	46	3.1 Material certificate	Yes			
	47					
	48					
PURCHASE	51	Manufacturer	According to approved vendor list			
	52	Model	Supplier to advise			
	53					
	54					
	55					
	56					
	57					

NOTES :

				INSTRUMENT AND VALVE DATASHEET			
				Pressure Gauge			
							
00	LK	23-4-2025	For Approval				
Rev	By	Date	Description				


Sheet ##### of 19
Based on P&ID Rev.00

GENERAL	1	Tag Number		PK-6003-PG-603002	
	2	Service		Gas pressure	
	3	P&ID No.		23249-03	
	4	Location		Second stage inlet pulsation damper	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Mixed gas	Dry Gas
	10	Pressure	Norm. Max.	10,5 bar(g)	
	11	Temperature	Norm. Max.	52 °C	
	12	Design	Press. Temp.	16 bar(g)	75 °C
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14				
	15				
	16				
	17				
	18				
GAUGE	19	Type		Bourdon tube	
	20	Range	Unit	0...16	bar(g)
	21	Mounting		Locally mounted	
	22	Dial Size	Dial Color	100 mm	White. Black numbers
	23	Case Material		SS 316	
	24	Ring Construction	Ring Material	Bayonet	SS 316
	25	Blow-Out Protection		Yes @ Back	
	26	Lens Material		Shatterproof laminated safety glass	
	27	Pressure Element Material		SS 316	
	28	Socket Material		SS 316	
	29	Connection Size		1/2" NPT-M	
	30	Connection Location		Bottom back	
	31	Movement Material		SS316	
	32	Nominal Accuracy		±1,0 % of span	
	33	Gauge Filling		Glycerine / Silicon Oil	
	34	Over Range Protection		1,3 x full scale value	
	35				
	36				
	37				
	OPTIONS	38	Snubber	Material	N/A
39		Gauge Savers	Material	N/A	N/A
40		Manifold (Block & Bleed)		No	N/A
41		Block valve (Hand ball valve)		No	
42					
43					
CERTIFICATES	44				
	45	Calibration certificate		Yes	
	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
	50				
PURCHASE	51	Manufacturer		According to approved vendor list	
	52	Model		Supplier to advise	
	53				
	54				
	55				
	56				
	57				

NOTES :


Case 1:
 - 77% propylene
 - 23% propane

Case 2:
 - 70,2% propylene
 - 26,2% propane
 - 3,3% ethylene
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET			
				Pressure Gauge			
							
00	LK	23-4-2025	For Approval			Sheet	#### of 19
Rev	By	Date	Description			Based on P&ID Rev.00	

GENERAL	1	Tag Number		PK-6003-PG-603003, PK-6003-PG-603004	
	2	Service		Cooling water pressure	
	3	P&ID No.		23249-03	
	4	Location		Cooling water supply / return	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Cooling water	Liquid
	10	Pressure	Norm. Max.	6,5...8 bar(g)	
	11	Temperature	Norm. Max.	42...52 °C	
	12	Design	Press. Temp.	TBA	TBA
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14				
	15				
	16				
GAUGE	17				
	18				
	19	Type		Bourdon tube	
	20	Range	Unit	0...12	bar(g)
	21	Mounting		Locally mounted	
	22	Dial Size	Dial Color	100 mm	White. Black numbers
	23	Case Material		SS 316	
	24	Ring Construction	Ring Material	Bayonet	SS 316
	25	Blow-Out Protection		Yes @ Back	
	26	Lens Material		Shatterproof laminated safety glass	
	27	Pressure Element Material		SS 316	
	28	Socket Material		SS 316	
	29	Connection Size		1/2" NPT-M	
	30	Connection Location		Bottom back	
	31	Movement Material		SS316	
	32	Nominal Accuracy		±1,0 % of span	
	33	Gauge Filling		Glycerine / Silicon Oil	
	34	Over Range Protection		1,3 x full scale value	
35					
36					
37					
OPTIONS	38	Snubber	Material	N/A	N/A
	39	Gauge Savers	Material	N/A	N/A
	40	Manifold (Block & Bleed)		Yes, 2-way B&B manifold	SS316 (Airpack Scope)
	41	Block valve (Hand ball valve)		No	
	42				
	43				
CERTIFICATES	44				
	45	Calibration certificate		Yes	
	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
PURCHASE	50				
	51	Manufacturer		According to approved vendor list	
	52	Model		Supplier to advise	
	53				
	54				
	55				
	56				
57					

NOTES :


				INSTRUMENT AND VALVE DATASHEET			
				Pressure Gauge			
							
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Rev	By	Date	Description			Based on P&ID Rev.00	

GENERAL	1	Tag Number		PK-6003-FG-603001, PK-6003-FG-603002	
	2	Service		Cooling water flow	
	3	P&ID No.		23249-03	
	4	Location		Cooling water supply / return	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Cooling water	Liquid
	10	Pressure	Norm. Max.	6.5...8 bar(g)	
	11	Temperature	Norm. Max.	42...52	
	12	Design	Press. Temp.	TBA	TBA
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Operating Flow		TBD	
	15				
	16				
	17				
	18				
	19				
	20				
	21				
GAUGE	22	Type	Unit		
	23	Range			
	24	Mounting			
	25	Case Material			
	26	Material Flow Tube		To be advised by supplier	
	27	Material Flow Float		To be advised by supplier	
	28	Normal Accuracy		±10% of full scale	
	29	Process Connection		1 1/2" NPT-F	
	30	Process Connection Orientation		Side-side	
	31	Adjustable Orifice		No	
	32				
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				
	OPTIONS	42			
43					
44					
45					
46					
47		Calibration certificate		Yes	
CERTIFICATES	48	3.1 Material certificate		Yes	
	49				
	50				
	51				
	52				
PURCHASE	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				

5) min/norm/maximum flow range to be specified


Will 6) type of flowgauge to be specified

NOTES :

				INSTRUMENT AND VALVE DATASHEET			
				Flow Gauge			
							
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Rev	By	Date	Description				
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GENERAL	1	Tag Number		PK-6003-PDT-603001	
	2	Service		Differential pressure over inlet filter	
	3	P&ID No.		23249-03	
	4	Location		Compressor inlet	
	5	Ingress Protection		IP65	
PROCESS CONDITIONS	6				
	7	Fluid	State	Mixed gas (see notes)	Dry gas
	8	Pressure	Norm. Max.	2.8...3,5 bar(g)	
	9	Temperature	Norm. Max.	0...60	
	10	Design	Press. Temp.	5 bar(g)	75 °C
	11	Ambient Temp.	Min. Max.	1 °C	55 °C
	12	Set Point	LL L	-	-
	13		H HH	0,2 bar	-
TRANSMITTER	14				
	15				
	16	Function		Field mounted Transmitter	
	17	Element Type		Diaphragm	
	18	Element Material		SS 316	
	19	Housing Material		SS316	
	20	Power Supply		24 VDC, 2-wire, loop powered	
	21	Process Conn.	Electric Conn.	1/2" NPT-F	ISO M20x1.5
	22	Accuracy		±0.1% of span	
	23	Max. Static Pressure		VTA	
	24	Calibrated Range	Unit	-1...1	bar
	25	Adjustable Range	Unit	VTA	bar
	26	Allow. Temp.		VTA	
	27	Area Classification		Zone 1, Ex't	
	28	Communication Protocol		Smart , HART	
	29	Output Signal		4 - 20 mA	
	30	Sensor Fill Fluid		To be informed by supplier	
DIAPHRAGM SEAL	31				
	32				
	33				
	34				
OPTIONS	35				
	36	Process Connection & Rating		N/A	
	37	Diaphragm Material		N/A	
	38	Capillary Material		N/A	
	39	Fill Fluid		N/A	
	40	Integral Meter	Scale	Yes, LCD	bar(g)
CERTIFICATES	41	Lightning And Surge Protection		N/A	
	42	Mounting facilities		Bracket	
	43	Housing ground connection		Yes, external (tightened with screws)	
	44	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
	45	Manifold (Block & Bleed)		Yes, 5-way B&B manifold SS316 (Airpack Scope)	
	46	Block valve (Hand ball valve)		No	
PURCHASE	47	Calibration certificate		Yes	
	48	3.1 Material certificate		Yes	
	49	ATEX		Yes	
	50	SIL certificate	Level	No	
	51	IP certificate		No	
	52				
	53				
	54	Manufacturer		According to approved vendor list	
	55	Model		Supplier to advise	
	56				
	57				

NOTES :		Case 2:	
Case 1:		- 70,2% propylene	
- 77% propylene		- 26,2% propane	
- 23% propane		- 3,3% ethylene	
		- 0,3% ethane	

				INSTRUMENT AND VALVE DATASHEET	
				Diff. Pressure Transmitter	
					
00	LK	23-4-2025	For Approval		
Rev	By	Date	Description	Sheet ##### of 19 Based on P&ID Rev.00	

GENERAL	1	Tag Number		PK-6003-PT-603001	
	2	Service		Oil pressure	
	3	P&ID No.		23249-03	
	4	Location		Downstream oil filter	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Oil	Liquid
	10	Pressure	Norm. Max.	min 1,5 bar(g)	
	11	Temperature	Norm. Max.		
	12	Design	Press. Temp.	TBA	TBA
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Setpoint	LL	L	1,5 bar(g)
	H		HH		
	15				
TRANSMITTER	19	Function		Field mounted Transmitter	
	20	Element Type		Diaphragm	
	21	Element Material		SS 316L	
	22	Housing Material		SS316	
	23	Power Supply		24 VDC, 2-wire, loop powered	
	24	Process Conn.	Electric Conn.	½" NPTM	ISO M20 x 1,5
	25	Accuracy		± 0.1% of span	
	26	Calibrated Range	Unit	-1...5	bar(g)
	27	Adjustable Range	Unit	VTA	bar(g)
	28	Allow. Press.	Allow. Temp.	To be informed by supplier	To be informed by supplier
	29	Area Classification		Zone 1, Ex'i	
	30	Communication Protocol		Smart , HART	
	31	Output Signal		4 - 20 mA	
	32	Sensor Fill Fluid		To be informed by supplier	
	33				
	OPTIONS	37	Integral Meter	Scale	Yes, LCD
38		Lightning And Surge Protection		N/A	
39		Mounting facilities		Bracket	
40		Manifold (Block & Bleed)		No	N/A
41		Housing ground connection		Yes, external (tightened with screws)	
42		Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
43		Block valve (Hand ball valve)		No	
CERTIFICATES	44	Calibration certificate		Yes	
	45	3.1 Material certificate		Yes	
	46	ATEX		Yes	
	47	SIL certificate		No	
	48	IP certificate		No	
	49				
PURCHASE	51	Manufacturer		According to approved vendor list	
	52	Model		Supplier to advise	
	53				
	54				
	55				
	56				
	57				


7) 316 ss , instrmnt valve manifold for all pressure gauge & transmitter shall be supplied

GENERAL	1	Tag Number		PK-6003-PT-603002	
	2	Service		Gas pressure	
	3	P&ID No.		23249-03	
	4	Location		Compressor outlet	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Mixed gas	Dry gas
	10	Pressure	Norm. Max.	21 bar(g)	
	11	Temperature	Norm. Max.	85...97	
	12	Design	Press. Temp.	30 bar(g)	120 °C
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Setpoint	LL L		Load: 20 bar(g)
	H HH		Unload: 21 bar(g)		
	15				
	16				
	17				
TRANSMITTER	19	Function		Field mounted Transmitter	
	20	Element Type		Diaphragm	
	21	Element Material		SS 316L	
	22	Housing Material		SS316	
	23	Power Supply		24 VDC, 2-wire, loop powered	
	24	Process Conn.	Electric Conn.	½" NPTM	ISO M20 x 1,5
	25	Accuracy		± 0.1% of span	
	26	Calibrated Range	Unit	0...30	bar(g)
	27	Adjustable Range	Unit	VTA	bar(g)
	28	Allow. Press.	Allow. Temp.	To be informed by supplier	To be informed by supplier
	29	Area Classification		Zone 1, Ex'i	
	30	Communication Protocol		Smart , HART	
	31	Output Signal		4 - 20 mA	
	32	Sensor Fill Fluid		To be informed by supplier	
	33				
	34				
	35				
	OPTIONS	37	Integral Meter	Scale	Yes, LCD
38		Lightning And Surge Protection		N/A	
39		Mounting facilities		Bracket	
40		Manifold (Block & Bleed)		No	N/A N/A
41		Housing ground connection		Yes, external (tightened with screws)	
42		Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
43		Block valve (Hand ball valve)		No	
CERTIFICATES	44	Calibration certificate		Yes	
	45	3.1 Material certificate		Yes	
	46	ATEX		Yes	
	47	SIL certificate		No	
	48	IP certificate		No	
	49				
	50				
PURCHASE	51	Manufacturer		According to approved vendor list	
	52	Model		Supplier to advise	
	53				
	54				
	55				
	56				
	57				

NOTES :

Case 1:
 - 77% propylene
 - 23% propane

Case 2:
 - 70,2% propylene
 - 26,2% propane
 - 3,3% ethylene
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET			
				Pressure Transmitter			
							
00	LK	23-4-2025		For Approval		Sheet	#### of 19
Rev	By	Date		Description		Based on P&ID	Rev.00

GENERAL	1	Tag Number		PK-6003-TT-603001	
	2	Service		Gas temperature	
	3	P&ID No.		23249-03	
	4	Location		First stage outlet pulsation dampener	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Mixed gas	Wet Gas
	10	Pressure	Norm. Max.	10,5 bar(g)	
	11	Temperature	Norm. Max.	45 °C	99 °C
	12	Design	Press. Temp.	16 bar(g)	120 °C
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Setpoint	LL L		
	15		H HH	110 °C	
	16				
TRANSMITTER	17	Function		Field mounted Transmitter	
	18	Transmitter Type		Temperature	
	19	RTD Types Supported		N/A	
	20	Thermocouples Types Supported		Yes, TC type 'K'	
	21	MV Type Supported		N/A	
	22	Cold Junction Compensation		Internal compensation	
	23	Housing Material		SS316	
	24	Power supply		24 VDC, 2 wire, loop powered	
	25	Electric Conn.		ISO M20 x 1,5	
	26	Accuracy		± 0.1% of span	
	27	Calibrated Range	Unit	0...150	°C
	28	Burn-out Protection/Loss of Input		Overrange	
	29	Area Classification		Zone 1, Ex'i	
	30	Communication Protocol		Smart , HART	
	31	Output Signal		4 - 20 mA	
	32	Adjustable Range		Yes	
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				
	41				
OPTIONS	42	Integral Meter	Scale	Yes, LCD	°C
	43	Lightning And Surge Protection		N/A	
	44	Mounting facilities		Bracket	
	45	Housing ground connection		Yes, external (tightened with screws)	
	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
CERTIFICATES	47	Calibration certificate		Yes	
	48	ATEX		Yes	
	49	IP certificate		No	
	50	SIL certificate	Level	No	N/A
	51				
PURCHASE	52				
	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				


NOTES :

Case 1:

- 77% propylene
 - 23% propane


Case 2:

- 70,2% propylene
 - 26,2% propane
 - 3,3% ethylene
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET	
				Temperature Transmitter	
					
00	LK	23-4-2025	For Approval		
Rev	By	Date	Description	Sheet ##### of 19 Based on P&ID Rev.00	

GENERAL	1	Tag Number		PK-6003-TT-603002	
	2	Service		Gas temperature	
	3	P&ID No.		23249-03	
	4	Location		First stage outlet pulsation dampener	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Mixed gas	Wet Gas
	10	Pressure	Norm. Max.	10,5 bar(g)	
	11	Temperature	Norm. Max.	45 °C	99 °C
	12	Design	Press. Temp.	16 bar(g)	120 °C
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Setpoint	LL	L	
	15		H	HH	120 °C
	16				
TRANSMITTER	17	Function		Field mounted Transmitter	
	18	Transmitter Type		Temperature	
	19	RTD Types Supported		N/A	
	20	Thermocouples Types Supported		Yes, TC type 'K'	
	21	MV Type Supported		N/A	
	22	Cold Junction Compensation		Internal compensation	
	23	Housing Material		SS316	
	24	Power supply		24 VDC, 2 wire, loop powered	
	25	Electric Conn.		ISO M20 x 1,5	
	26	Accuracy		± 0.1% of span	
	27	Calibrated Range	Unit	0...150	°C
	28	Burn-out Protection/Loss of Input		Overrange	
	29	Area Classification		Zone 1, Ex'i	
	30	Communication Protocol		Smart , HART	
	31	Output Signal		4 - 20 mA	
	32	Adjustable Range		Yes	
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				
	41				
OPTIONS	42	Integral Meter	Scale	Yes, LCD	°C
	43	Lightning And Surge Protection		N/A	
	44	Mounting facilities		Bracket	
	45	Housing ground connection		Yes, external (tightened with screws)	
	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
CERTIFICATES	47	Calibration certificate		Yes	
	48	ATEX		Yes	
	49	IP certificate		No	
	50	SIL certificate	Level	No	N/A
	51				
PURCHASE	52				
	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				

NOTES :		Case 2:	
Case 1:		- 70,2% propylene	
- 77% propylene		- 26,2% propane	
- 23% propane		- 3,3% ethylene	
		- 0,3% ethane	

				INSTRUMENT AND VALVE DATASHEET	
				Temperature Transmitter	
					
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GENERAL	1	Thermowell Tag Number		PK-6003-TW-603001, PK-6003-TW-603002	
	2	Service		Gas temperature	
	3	P&ID No.		23249-03	
	4	Location		Correspondent transmitter	
	5				
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Mixed gas	Dry Gas
	10	Pressure	Norm. Max.	10,5 bar(g)	
	11	Temperature	Norm. Max.	45 °C	99 °C
	12	Design	Press. Temp.	16 bar(g)	120 °C
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14				
	15				
	16				
THERMOWELL	19	Material		8) all data to be filled and specified	
	20	Construction			
	21	Process Connection			
	22	Instrument Connection			
	23	Stem Diameter			
	24	Bore Diameter		1/2" NPT-F	
	25	U-length		To be advised by supplier	
	26			To house a 6 mm OD element	
	27			Check with Engineering Departament	
	28				
ELEMENT	30	Element Tag Number		PK-6003-TE-603001, PK-6003-TE-603002	
	31	Construction		Sensor with lead wire, transition and relief spring	
	32	Type Of Element		Thermocouple type 'K'	
	33	Type Of Element		Simplex	
	34	Accuracy Class		DIN - IEC-EN 60584 Class 1	
	35	Outside Diameter Sensor		6 mm	
	36	Connection		1/2" NPT-M x 6,0 mm OD coupling sliding on stem	
	37	Element Length		To fit in Thermowell	
	38	Type Of Cable		Armoured	
	39	Cable Length		10 m (default)	
	40	Sheat Material		SS 316	
	41				
	42				
	43				
	OPTIONS	46			
47					
48					
CERTIFICATES	49	3.1 Material certificate		Yes	
	50	Functional test report (up-down) for elem		No	
	51	Calibration certificate		No	
	52				
CALCULATIONS	53	Wake frequency calculation		No	
	54				
	55				
	56				
	57				


NOTES :

Case 1:

- 77% propylene
 - 23% propane

Case 2:

- 70,2% propylene
 - 26,2% propane
 - 3,3% ethylene
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET	
				Thermowell + Element	
					
00	LK	23-4-2025	For Approval	Sheet ##### of 19	
Rev	By	Date	Description	Based on P&ID Rev.00	

GENERAL	1	Tag Number		PK-6003-TT-603003	
	2	Service		Gas temperature	
	3	P&ID No.		23249-03	
	4	Location		1st stage compressor	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Mixed gas	Dry gas
	10	Pressure	Norm. Max.	21 bar(g)	
	11	Temperature	Norm. Max.	85 °C	97 °C
	12	Design	Press. Temp.	30 bar(g)	120 °C
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Setpoint	LL L		
	15		H HH	110 °C	
	16				
TRANSMITTER	17	Function		Field mounted Transmitter	
	18	Transmitter Type		Temperature	
	19	RTD Types Supported		N/A	
	20	Thermocouples Types Supported		Yes, TC type 'K'	
	21	MV Type Supported		N/A	
	22	Cold Junction Compensation		Internal compensation	
	23	Housing Material		SS316	
	24	Power supply		24 VDC, 2 wire, loop powered	
	25	Electric Conn.		ISO M20 x 1,5	
	26	Accuracy		± 0.1% of span	
	27	Calibrated Range	Unit	0...150	°C
	28	Burn-out Protection/Loss of Input		Overrange	
	29	Area Classification		Zone 1, Ex'i	
	30	Communication Protocol		Smart , HART	
	31	Output Signal		4 - 20 mA	
	32	Adjustable Range		Yes	
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				
	41				
OPTIONS	42	Integral Meter	Scale	Yes, LCD	°C
	43	Lightning And Surge Protection		N/A	
	44	Mounting facilities		Bracket	
	45	Housing ground connection		Yes, external (tightened with screws)	
	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
CERTIFICATES	47	Calibration certificate		Yes	
	48	ATEX		Yes	
	49	IP certificate		No	
	50	SIL certificate	Level	No	N/A
	51				
PURCHASE	52				
	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				


NOTES :

Case 1:

- 77% propylene
 - 23% propane

Case 2:

- 70,2% propylene
 - 26,2% propane
 - 3,3% ethylene
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET	
				Temperature Transmitter	
					
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GENERAL	1	Tag Number		PK-6003-TT-603004	
	2	Service		Gas temperature	
	3	P&ID No.		23249-03	
	4	Location		1st stage compressor	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Mixed gas	Dry gas
	10	Pressure	Norm. Max.	21 bar(g)	
	11	Temperature	Norm. Max.	85 °C	97 °C
	12	Design	Press. Temp.	30 bar(g)	120 °C
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Setpoint	LL L		
	15		H HH		120 °C
	16				
TRANSMITTER	17	Function		Field mounted Transmitter	
	18	Transmitter Type		Temperature	
	19	RTD Types Supported		N/A	
	20	Thermocouples Types Supported		Yes, TC type 'K'	
	21	MV Type Supported		N/A	
	22	Cold Junction Compensation		Internal compensation	
	23	Housing Material		SS316	
	24	Power supply		24 VDC, 2 wire, loop powered	
	25	Electric Conn.		ISO M20 x 1,5	
	26	Accuracy		± 0.1% of span	
	27	Calibrated Range	Unit	0...150	°C
	28	Burn-out Protection/Loss of Input		Overrange	
	29	Area Classification		Zone 1, Ex'i	
	30	Communication Protocol		Smart , HART	
	31	Output Signal		4 - 20 mA	
	32	Adjustable Range		Yes	
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				
	41				
OPTIONS	42	Integral Meter	Scale	Yes, LCD	°C
	43	Lightning And Surge Protection		N/A	
	44	Mounting facilities		Bracket	
	45	Housing ground connection		Yes, external (tightened with screws)	
	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
CERTIFICATES	47	Calibration certificate		Yes	
	48	ATEX		Yes	
	49	IP certificate		No	
	50	SIL certificate	Level	No	N/A
	51				
PURCHASE	52				
	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				


NOTES :

Case 1:

- 77% propylene
 - 23% propane


Case 2:

- 70,2% propylene
 - 26,2% propane
 - 3,3% ethylene
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET	
				Temperature Transmitter	
					
00	LK	23-4-2025	For Approval		
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GENERAL	1	Thermowell Tag Number			PK-6003-TW-603003, PK-6003-TW-603004		
	2	Service			Gas temperature		
	3	P&ID No.			23249-03		
	4	Location			Correspondent transmitter		
	5						
	6						
	7						
	8						
PROCESS CONDITIONS	9	Fluid	State		Mixed gas	Dry Gas	
	10	Pressure	Norm.	Max.	21 bar(g)		
	11	Temperature	Norm.	Max.	85 °C	97 °C	
	12	Design	Press.	Temp.	30 bar(g)	120 °C	
	13	Ambient Temp.	Min.	Max.	1 °C	55 °C	
	14						
	15						
	16						
THERMOWELL	17						
	18						
	19	Material			SS 316		
	20	Construction			Solid bar stock		
	21	Process Connection			3/4" NPT-M		
	22	Instrument Connection			1/2" NPT-F		
	23	Stem Diameter			To be advised by supplier		
	24	Bore Diameter			To house a 6 mm OD element		
	25	U-length			Check with Engineering Departament		
	26						
	27						
	28						
	29						
	ELEMENT	30	Element Tag Number			PK-6003-TE-603003, PK-6003-TE-603004	
		31	Construction			Sensor with lead wire, transition and relief spring	
		32	Type Of Element			Thermocouple type 'K'	
33		Type Of Element			Simplex		
34		Accuracy Class			DIN - IEC-EN 60584 Class 1		
35		Outside Diameter Sensor			6 mm		
36		Connection			1/2" NPT-M x 6,0 mm OD coupling sliding on stem		
37		Element Length			To fit in Thermowell		
	38	Type Of Cable			Armoured		
	39	Cable Length			10 m (default)		
	40	Sheat Material			SS 316		
	41						
	42						
	43						
	44						
	45						
OPTIONS	46						
	47						
	48						
CERTIFICATES	49	3.1 Material certificate			Yes		
	50	Functional test report (up-down) for elem			No		
	51	Calibration certificate			No		
	52						
CALCULATIONS	53	Wake frequency calculation			No		
	54						
	55						
	56						
	57						

NOTES :
Case 1:
 - 77% propylene
 - 23% propane
Case 2:
 - 70,2% propylene
 - 26,2% propane
 - 3,3% ethylene
 - 0,3% ethane

				INSTRUMENT AND VALVE DATASHEET	
				Thermowell + Element	
					
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Rev	By	Date	Description	Based on P&ID Rev.00	


GENERAL	1	Tag Number		PK-6003-TT-603005	
	2	Service		Cooling water temperature	
	3	P&ID No.		23249-03	
	4	Location		Cooling water supply	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Cooling water	Liquid
	10	Pressure	Norm. Max.	8 bar(g)	
	11	Temperature	Norm. Max.	42 °C	
	12	Design	Press. Temp.	TBA	TBA
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Setpoint	LL	L	
	15		H	HH	50 °C
	16				
TRANSMITTER	17	Function		Field mounted Transmitter	
	18	Transmitter Type		Temperature	
	19	RTD Types Supported		N/A	
	20	Thermocouples Types Supported		Yes, TC type 'K'	
	21	MV Type Supported		N/A	
	22	Cold Junction Compensation		Internal compensation	
	23	Housing Material		SS316	
	24	Power supply		24 VDC, 2 wire, loop powered	
	25	Electric Conn.		ISO M20 x 1.5	
	26	Accuracy		± 0.1% of span	
	27	Calibrated Range	Unit	0...100	°C
	28	Burn-out Protection/Loss of Input		Overrange	
	29	Area Classification		Zone 1, Ex'i	
	30	Communication Protocol		Smart , HART	
	31	Output Signal		4 - 20 mA	
	32	Adjustable Range		Yes	
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				
	41				
OPTIONS	42	Integral Meter	Scale	Yes, LCD	°C
	43	Lightning And Surge Protection		N/A	
	44	Mounting facilities		Bracket	
	45	Housing ground connection		Yes, external (tightened with screws)	
	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
CERTIFICATES	47	Calibration certificate		Yes	
	48	ATEX		Yes	
	49	IP certificate		No	
	50	SIL certificate	Level	No	N/A
	51				
PURCHASE	52				
	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				

Notes:

				INSTRUMENT AND VALVE DATASHEET	
				Temperature Transmitter	
					
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GENERAL	1	Tag Number		PK-6003-TT-603006	
	2	Service		Cooling water temperature	
	3	P&ID No.		23249-03	
	4	Location		Cooling water supply	
	5	Ingress Protection		IP65	
	6				
	7				
	8				
PROCESS CONDITIONS	9	Fluid	State	Cooling water	Liquid
	10	Pressure	Norm. Max.	6,5 bar(g)	
	11	Temperature	Norm. Max.	52 °C	
	12	Design	Press. Temp.	TBA	TBA
	13	Ambient Temp.	Min. Max.	1 °C	55 °C
	14	Setpoint	LL	L	
	15		H	HH	55 °C
	16				
TRANSMITTER	17	Function		Field mounted Transmitter	
	18	Transmitter Type		Temperature	
	19	RTD Types Supported		N/A	
	20	Thermocouples Types Supported		Yes, TC type 'K'	
	21	MV Type Supported		N/A	
	22	Cold Junction Compensation		Internal compensation	
	23	Housing Material		SS316	
	24	Power supply		24 VDC, 2 wire, loop powered	
	25	Electric Conn.		ISO M20 x 1,5	
	26	Accuracy		± 0.1% of span	
	27	Calibrated Range	Unit	0...100	°C
	28	Burn-out Protection/Loss of Input		Overrange	
	29	Area Classification		Zone 1, Ex'i	
	30	Communication Protocol		Smart , HART	
	31	Output Signal		4 - 20 mA	
	32	Adjustable Range		Yes	
	33				
	34				
	35				
	36				
	37				
	38				
	39				
	40				
	41				
OPTIONS	42	Integral Meter	Scale	Yes, LCD	°C
	43	Lightning And Surge Protection		N/A	
	44	Mounting facilities		Bracket	
	45	Housing ground connection		Yes, external (tightened with screws)	
	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)	
CERTIFICATES	47	Calibration certificate		Yes	
	48	ATEX		Yes	
	49	IP certificate		No	
	50	SIL certificate	Level	No	N/A
	51				
PURCHASE	52				
	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				

Notes:

				INSTRUMENT AND VALVE DATASHEET	
				Temperature Transmitter	
					
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Rev	By	Date	Description	Based on P&ID Rev.00	

GENERAL	1	Thermowell Tag Number			PK-6003-TW-603005, PK-6003-TW-603006	
	2	Service			Cooling water temperature	
	3	P&ID No.			23249-03	
	4	Location			Correspondent transmitter	
	5					
	6					
	7					
	8					
PROCESS CONDITIONS	9	Fluid	State		Cooling water	Liquid
	10	Pressure	Norm.	Max.	6,5...8 bar(g)	
	11	Temperature	Norm.	Max.	42...55 °C	
	12	Design	Press.	Temp.	TBA	TBA
	13	Ambient Temp.	Min.	Max.	1 °C	55 °C
	14					
	15					
	16					
THERMOWELL	19	Material			SS 316	
	20	Construction			Solid bar stock	
	21	Process Connection			3/4" NPT-M	
	22	Instrument Connection			1/2" NPT-F	
	23	Stem Diameter			To be advised by supplier	
	24	Bore Diameter			To house a 6 mm OD element	
	25	U-length			Check with Engineering Department	
	26					
	27					
	28					
ELEMENT	30	Element Tag Number			PK-6003-TE-603005, PK-6003-TE-603006	
	31	Construction			Sensor with lead wire, transition and relief spring	
	32	Type Of Element			Thermocouple type 'K'	
	33	Type Of Element			Simplex	
	34	Accuracy Class			DIN - IEC-EN 60584 Class 1	
	35	Outside Diameter Sensor			6 mm	
	36	Connection			1/2" NPT-M x 6,0 mm OD coupling sliding on stem	
	37	Element Length			To fit in Thermowell	
	38	Type Of Cable			Armoured	
	39	Cable Length			10 m (default)	
	40	Sheat Material			SS 316	
	41					
	42					
	43					
OPTIONS	46					
	47					
	48					
CERTIFICATES	49	3.1 Material certificate			Yes	
	50	Functional test report (up-down) for element			No	
	51	Calibration certificate			No	
	52					
CALCULATIONS	53	Wake frequency calculation			No	
	54					
	55					
	56					
	57					

NOTES :

				INSTRUMENT AND VALVE DATASHEET			
				Thermowell + Element			
							
00	LK	23-4-2025	For Approval			Sheet	#### of 19
Rev	By	Date	Description			Based on P&ID	Rev.00