



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

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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 گستاران رجال SERAJ GOSTARAN REJAL (سهامی خاص)
	Instrument data sheet			
	Vendor's Doc. No.: 23249-12	Rev.: 00		
PPEC Doc. No.: L03-RE037-IN-DSH-003				


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1	X							
2	X							
3	X							
4	X							
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Notes:

GENERAL	1	Tag Number		PK-6003-PG-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				
	15				
	16				
	17				
	18				
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	ConnectionLocation		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	
	35				
36					
37					
OPTIONS	38	Snubber	Material	N/A	N/A
	39	Gauge Savers	Material	N/A	N/A
	40	Manifold (Block & Bleed)		No	N/A
	41	Block valve (Hand ball valve)		No	N/A
	42				
CERTIFICATES	45	Calibration certificate		Yes	
	46	3.1 Material certificate		Yes	
	47				
	48				
	49				
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	Sheet #### of 19	
Rev	By	Date	Description	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	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				
	44				
CERTIFICATES	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 :


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				
	17				
	18				
GAUGE	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					
44					
CERTIFICATES	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				
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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		Variable area
23		Range	Unit	Will be stated later	Nm³/hr
24		Mounting		Locally mounted	
25		Case Material		SS316	
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					
41					
OPTIONS	42				
	43				
	44				
	45				
	46				
CERTIFICATES	47	Calibration certificate		Yes	
	48	3.1 Material certificate		Yes	
	49				
	50				
	51				
	52				
PURCHASE	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
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				INSTRUMENT AND VALVE DATASHEET	
				Flow 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-PDT-603001	
	2	Service		Differential pressure over inlet filter	
	3	P&ID No.		23249-03	
	4	Location		Compressor inlet	
	5	Ingress Protection		IP65	
	6				
PROCESS CONDITIONS	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	-
	14				
TRANSMITTER	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'I	
	28	Communication Protocol		Smart , HART	
	29	Output Signal		4 - 20 mA	
	30	Sensor Fill Fluid		To be informed by supplier	
31					
32					
33					
34					
35					
DIAPHRAGM SEAL	36	Process Connection & Rating		N/A	
	37	Diaphragm Material		N/A	
	38	Capillary Material		N/A	
	39	Fill Fluid		N/A	
OPTIONS	40	Integral Meter	Scale	Yes, LCD	bar(g)
	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	
CERTIFICATES	47	Calibration certificate		Yes	
	48	3.1 Material certificate		Yes	
	49	ATEX		Yes	
	50	SIL certificate	Level	No	
	51	IP certificate		No	
	52				
PURCHASE	53				
	54	Manufacturer		According to approved vendor list	
	55	Model		Supplier to advise	
	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	
				Diff. Pressure Transmitter	
					
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Rev	By	Date	Description	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)	
	15		H	HH		
	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	-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	bar(g)	
	38	Lightning And Surge Protection		N/A		
	39	Mounting facilities		Bracket		
	40	Manifold (Block & Bleed)		No	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					

NOTES :


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

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)
	15		H	HH	Unload: 21 bar(g)	
	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						
36						
OPTIONS	37	Integral Meter	Scale		Yes, LCD	bar(g)
	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					
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	Sheet ##### of 19	
Rev	By	Date	Description	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				
52					
PURCHASE	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	Sheet ##### of 19	
Rev	By	Date	Description	Based on P&ID Rev.00	

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		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				
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	
OPTIONS	41				
	42				
	43				
	44				
	45				
	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
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				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	
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	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				

NOTES :

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 - 77% propylene
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				INSTRUMENT AND VALVE DATASHEET	
				Temperature 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-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
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	53	Manufacturer		According to approved vendor list	
	54	Model		Supplier to advise	
	55				
	56				
	57				

NOTES :


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


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


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
TRANSMITTER	16					
	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						
OPTIONS	41					
	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)		
CERTIFICATES	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)		
	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:

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


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
TRANSMITTER	16					
	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					
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)		
CERTIFICATES	46	Cable Gland		Yes, Eex 'd' certified (Airpack scope)		
	47	Calibration certificate		Yes		
	48	ATEX		Yes		
	49	IP certificate		No		
	50	SIL certificate	Level	No	N/A	
PURCHASE	51					
	52					
	53	Manufacturer		According to approved vendor list		
	54	Model		Supplier to advise		
	55					
56						
57						

Notes:

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

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	
	OPTIONS	46			
47					
48					
CERTIFICATES	49	3.1 Material certificate		Yes	
	50	Functional test report (up-down) for element		No	
	51	Calibration certificate		No	
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	