



Toase-eh Park Sanati Gohar Ofogh
 Petrochemical Co.
**CONCEPTUAL, BASIC and DETAIL DESIGN
 ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: Instrument Data Sheet

Document No.: EI027-HSE-VD – IN– DSH–003- R0

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STYRENE PARK OFFSITE

Document Title:
Instrument Data Sheet

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
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REVISION RECORD SHEET

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1	X							41							
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8	X							48							
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10	X							50							
11	X							51							
12	X							52							
13	X							53							
14	X							54							
15	X							55							
16								56							
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GENERAL

1	Tag No.	LT-RU0001A-03, LG-RU0001A-03,LT-RU0001B-03, LG-RU0001B-03			7	AREA Classification	Zone 2 IIB T3			
2	Service	EVAPORATOR			8					
3	Line No.	-			9					
4	Line Size	Line Schedule			10					
5	Equipment No.				11					
6	PID No.	EI027-HSE-VD-PR-PID-002 (6/7)			12					
GAUGE BODY AND VALVES					BASIS AND SELECTION					
13	Body Material	Stainless Steel			56	Mounting	LG			
14	Material Detail	316 SS			57	Power Supply From	24 Vdc	System		
15	Connection Size	2"			58	Accuracy %	±0.4mm	±0.005%		
16	Connection Layout	Side-Side			59	Output signal	4-20 mA Hart			
17	Rating	Face	CL 300	RF	60	Electrical Protection	Exia IIC T3			
18	Length Between Connections	1220 mm			61	IP Rating	IP65			
19	Gasket Material	Graphite			62	Zero Adjustment	External			
20	Float Material	Titanium			63	Electrical Connections	M20 x 1.5			
21	Float Model				64	Span Adjustable	External			
22	Bottom Connection	2" Flanged			65	Calibrated Range	mm	0	-	Hold
23	Bolting and Nutts	Stainless Steel			66	DCS Range %		0	-	100
24	Valves Type	Ball			Indicator					
25	Valves Material	Carbon Steel			67	Type	Magnetic Metal Tube			
26	Seat	Hyapatite PTFE			68	Indicator Elements	Flappers			
27	Trim Material	316 SS			69	Float Failure indication	Yes			
28	Drain Connection	3/4" Flange			70	Transparent Front Material	Fiberglass			
29	Vent Connection	3/4" Flange			71	Indicator Housing Material	Stainless Steel			
30	Interface Fluid Measures	Yes			72	Indication Rail Material	Stainless Steel			
TRANSMITTER BODY					73	Graduations	%	0		100
31	Instrument Function	Magnetostrictive			74	Low Reference	mm	Hold		
32	Element Type	Floater			75	High Reference	mm	Hold		
33	Element Material	316SS Ti			ACCESSORIES					
34	Housing Material	Stainless Steel			76	Indicator	Digital Local Indicator			
35	Material Detail	316SS			77	Integral Meter Scale	No			
36	Transmitter Rating	IP 65			78	Mounting Bracket	No			
37	Overrange Protection	130% of Range			79	Wave / Fluid Stabilizer	No			
38	Vent	Drain	No	No	80	Stabilizer Material	-			
39	Sensor Type	Core Tube and Fittings			81	Extension Cable	No			
40	Sensor Material	316L SS			82	Surge Protection	No			
41	Bolts Material	Stainless Steel			83	Swtich type	-			
42	Connection Size	1/2"			84	Contact Switch Material	-			
43	Connection point	Top			85	Switch Power Supply or Consumption	-			
PROCESS DATA					86	Sunshade	No			
44	Lower Fluid Name	PROPANE			87	Jacket or Internal Tracer	No			
45	Upper Fluid Name	PROPANE			88	Frost Extension	No			
46	Fluid Phase Lower / Upper	Liquid / Vapor			89					
47	Pressure Norm	bar A	4.7		REQUIREMENTS AND TEST					
48	Temperature Norm / Max	°C	-0.07		90	NACE Requirments	No			
49	Density Lower / Upper	Kg/m3	436.9 / 10.22		91	ASME Design	Yes			
50	Viscosaty Lower / Upper	cp	0.059 / 0.0078		92	Material Certification	3.1 Material Certificate			
51	Corrosive Agents	-			93	Body Hydraulic Test	Yes			
52	Toxic Agents	-			94	Float Hydraulic test	No			
53	Design Pressure	bar G	FV	22	95	Factory Calibration	Yes			
54	Design Temp.	°C	-45	120	96	SIL Requirements	-			
55					97	NDE	Manufacturer's Standard			
PURCHASE DATA					NOTES					
98	Manufacturer				104	note 1: LG flange connections on Left side note 2: note 3:				
99	Model Number									
100	Smart Plant Code / Glovia Code									
101	Mtr. Requisition									
102	Purchase Order No.									
103	Item Number									



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GENERAL									
1	Tag No.	LG-RU0001A-02, LG-RU0001B-02			7	AREA Classification	Zone 2 IIB T3		
2	Service	RECEIVER HEADER			8				
3	Line No.	-			9				
4	Line Size	Line Schedule			10				
5	Equipment No.				11				
6	PID No.	EI027-HSE-VD-PR-PID-002 (5/7)			12				
GAUGE BODY AND VALVES					BASIS AND SELECTION				
13	Body Material	SA350-LF2			56	Mounting	LG		
14	Material Detail	LTCS			57	Power Supply From	N/A		
15	Connection Size	2"			58	Accuracy %	Repeatability		
16	Connection Layout	Side-Side			59	Output signal	N/A		
17	Rating	Face	CL 300	RF	60	Electrical Protection	N/A		
18	Length Between Connections	762 mm			61	IP Rating	65		
19	Drain Connection	3/4" Flange			62	Zero Adjustment	N/A		
20	Vent Connection	3/4" Flange			63	Electrical Connections	N/A		
21	Trim	316L SS			64	Span Adjustable	N/A		
22	Bonnet	PACKING NUT / TEFLON PACKING			65	Calibrated Range	mm		
23					66	DCS Range %			
24							Indicator		
25					67	Type	Reflex		
26					68	size	7 (VTC)		
27					69	No. of section	2 (VTC)		
28					70				
29					71				
30					72				
TRANSMITTER BODY					73				
31	Instrument Function	No			74				
32	Element Type				75				
33	Element Material						ACCESSORIES		
34	Housing Material				76	Indicator	N/A		
35	Material Detail				77	Integral Meter Scale			
36	Transmitter Rating				78	Mounting Bracket			
37	Overrange Protection				79	Wave / Fluid Stabilizer			
38	Vent	Drain			80	Stabilizer Material			
39	Sensor Type				81	Extension Cable			
40	Sensor Material				82	Surge Protection			
41	Bolts Material				83	Switch type			
42	Connection Size				84	Contact Switch Material			
43	Connection point				85	Switch Power Supply or			
PROCESS DATA					86	Sunshade			
44	Lower Fluid Name	PROPANE			87	Jacket or Internal Tracer			
45	Upper Fluid Name	PROPANE			88	Frost Extension			
46	Fluid Phase Lower / Upper	Liquid / Vapor			89				
47	Pressure Norm	bar A		19.7		REQUIREMENTS AND TEST			
48	Temperature Norm / Max	°C		56.32	90	NACE Requirments	No		
49	Density Lower / Upper	Kg/m3		436.9 / 43.38	91	ASME Design	Yes		
50	Viscosaty Lower / Upper	cp		0.059 / 0.0106	92	Material Certification	3.1 Material Certificate		
51	Corrosive Agents	-			93	Body Hydraulic Test	Yes		
52	Toxic Agents	-			94	Float Hydraulic test	No		
53	Design Pressure	bar G	FV	22	95	Factory Calibration	Yes		
54	Design Temp.	°C	-45	120	96	1200	-		
55					97	NDE	Manufacturer's Standard		
PURCHASE DATA					NOTES				
98	Manufacturer				104	note 1: LG flange connections on Left side			
99	Model Number					note 2:			
100	Smart Plant Code / Glovia Code					note 3:			
101	Mtr. Requisition								
102	Purchase Order No.								
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GENERAL									
1	Tag No.	LS-RU0001A-01, LS-RU0001B-01			7	AREA Classification	Zone 2 IIB T3		
2	Service	Oil Separator			8				
3	Line No.	-			9				
4	Line Size	Line Schedule			10				
5	Equipment No.	RU0001A-D-01			11				
6	PID No.	EI027-HSE-VD-PR-PID-002 (3/7)			12				
LEVEL SWITCH					BASIS AND SELECTION				
13	Body Material	Stainless Steel			56	Mounting			
14	Material Detail	316 SS			57	Power Supply From	24 Vdc		
15	Connection Size	3/4" NPT			58	Accuracy %	Repeatability		
16	Connection Layout	Side			59	Output signal	DRY CONTACT		
17	Rating	Face			60	Electrical Protection	Exd		
18	Gasket Material	Graphite			61	IP Rating	65		
19	Bolting and Nutts	Stainless Steel			62	Electrical Connections	M20 *1.5		
20					63				
21					64				
22					65				
23					66				
					Indicator				
25					67	Type	N/A		
26					68	Indicator Elements			
27					69	Float Failure indication			
28					70	Transparent Front Material			
29					71	Indicator Housing Material			
30					72	Indication Rail Material			
TRANSMITTER BODY					73	Graduations	%		
31	Instrument Function	Low level detection			74	Low Reference	mm		
32	Element Type	Vibration			75	High Reference	mm		
33	Element Material				ACCESSORIES				
34	Housing Material				76	Indicator	No		
35	Material Detail				77	Integral Meter Scale	No		
36	Transmitter Rating	5~100 C			78	Mounting Bracket	No		
37	Overrange Protection				79	Wave / Fluid Stabilizer	No		
38	Vent	Drain	N/A	N/A	80	Stabilizer Material	-		
39	Sensor Type				81	Extension Cable	No		
40	Sensor Material				82	Surge Protection	No		
41	Bolts Material				83	Switich type	-		
42	Connection Size	3/4" NPT			84	Contact Switch Material	-		
43	Connection point				85	Switch Power Supply or	-		
PROCESS DATA					86	Sunshade	No		
44	Lower Fluid Name	OIL			87	Jacket or Internal Tracer	No		
45	Upper Fluid Name				88	Frost Extension	No		
46	Fluid Phase Lower / Upper	Liquid			89				
47	Pressure Norm	bar A	20.2		REQUIREMENTS AND TEST				
48	Temperature Norm / Max	°C	73.50		90	NACE Requirments	No		
49	Density Lower / Upper	Kg/m3	1005.00		91	ASME Design	No		
50	Viscosaty Lower / Upper	cp	12		92	Material Certification	3.1 Material Certificate		
51	Corrosive Agents	-			93	Body Hydraulic Test	Yes		
52	Toxic Agents	-			94	Float Hydraulic test	No		
53	Design Pressure	bar G	-1	22	95	Factory Calibration	Yes		
54	Design Temp.	°C	5	100	96	SIL Requirements	-		
55					97	NDE	Manufacturer's Standard		
PURCHASE DATA					NOTES				
98	Manufacturer				104	1)Fork level switch is not acceptable 2)IEC standard to be followed			
99	Model Number								
100	Smart Plant Code / Glovia Code								
101	Mtr. Requisition								
102	Purchase Order No.								
103	Item Number								



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GENERAL							
1	Tag No.	PG-RU0001A-01,PG-RU0001B-01			7	AREA Classification	Zone 2 IIB T3
2	Service	Compressor Suction			8		
3	Line No.	6"-PR-RU0001(A/B)01-ML3R1-C			9		
4	Line Size	Line Schedule	6"		10		
5	Equipment No.				11		
6	PID No.	EI027-HSE-VD-PR-PID-002 (2/7)			12		
GAUGE/SENSING ELEMENT				DIAPHRAGM SEAL			
13	Type	Direct Reading			56	Seal Type	Without Seal
14	Instrument Range bar G	-1	-	24	57	Process Connection	-
15	Dial Size	100 mm			58	Diaphragm seal	-
16	Dial Color	Black Labels-White Background			59	Top Housing Material	-
17	Case Material	316 SS			60	Bottom Housing Material	-
18	Mounting	Direct installation			61	Fill Fluid	-
19	Window Material	Safety Glass			62	Capillary Length	-
20	Zero Adjustment	External			63	Capillary Material	-
21	Span Adjustment	Internal			64	Flushing Connection	-
22	Nominal Accuracy	Class 1.0			65	Connection to Instrument	-
23	Element Type	Bourdon			66		
24	Pressure Element Material	316L SS			67		
25	Movement Material	316 SS			68		
26	Connection Size	1/2" NPTM			ACCESSORIES		
27	Connection Material	316L SS			69	Accessories Code	Other
28	Connection Location	Radial Bottom			70	Overrange Protection	Without Accessories
29	Process Connection Type	Threaded			71	Pulsation Damper/Snubber	No
30	Blow-Out Protection	Yes			72	Damper Material	-
31	Case Liquid Filling	GLYCERINE FILLED			73	Shypon	No
32	Overpressure	Yes, 1.5 times the full scale pressure			74	Shypon Material	-
33	Solid Front	Yes			75	Manifold Type	2- Valve manifold
34	Weather Protection	IP65			76	Manifold Material	316 SS
35					77	Manifold Process Connection	1/2" NPT Female-1/2" NPT Male
36					78	Mounting	
37					79		
38					80		
39					81		
40					82		
41					83		
PROCESS DATA				REQUIREMENTS AND TEST			
42	Fluid	PROPANE			84	NACE Requirments	No
43	Phase Fluid	Vapor			85	ASME U STAMP Required	No
44	Operating Conditions	Min	Norm	Max	86	Material Certification	3.1 Material Certificate
45	Pressure (Upstream)	bar A	4.70		87	Test Requirements	Yes
46	Temperature	°C	-0.07		88	Hydraulic test (accessories)	Yes
47	Corrosive Agents	-			89	Factory Calibration	Yes
48	Toxic Agents	-			90		
49	Design Pressure Min / Max	bar A	FV	23	91		
50	Design Temp. Min / Max	°C	-45	120	92		
51					93		
52					94		
53					95		
54					96		
55					97		
PURCHASE DATA				NOTES			
98	Manufacturer	Wika			104		
99	Model Number	233.30					
102	Purchase Order No.						
103	Item Number						



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1	Tag No.	PIT-RU0001A-01,PIT-RU0001B-01			7	AREA Classification	Zone 2 IIB T3			
2	Service	Compressor Suction			8					
3	Line No.	5"-PR-RU0001(A/B)01-ML3R1-C			9					
4	Line Size	Line Schedule	5"		10					
5	Equipment No.	-			11					
6	PID No.	EI027-HSE-VD-PR-PID-002 (2/7)			12					
TRANSMITTER BODY					BASIS AND SELECTION					
13	Instrument Function	Gauge Pressure			55	Mounting	Bracket for 2" pipe			
14	Element Type	Pressure Cell			56	Power Supply From	24 Vdc	System		
15	Element Material	Stainless Steel & Hastelloy			57	Accuracy %	Repeatability ±0.2% F.S			
16	Body Material	Stainless Steel			58	Output signal	4-20 mA Hart			
17	Material Detail	316L SST			59	Electrical Protection	IP 65			
18	Body Rating	-			60	IP Rating	Ex ia IIB T3			
19	Overrange Protection	130% of Range			61	Zero Adjustment	External			
20	Vent	Drain	Yes	No	62	Electrical Connections	M20 x 1.5			
21	Fill Fluid	Silicone Oil			63	Span Adjustable	External			
22	Wetted O-Rings Material	Teflon-coated 316L			64	Calibrated Range	bar G	-1	-	10.3
23	Bolts Material	Stainless Steel			65	Instrument Range	bar G	-1	-	40
24	Housing Material	Die-Cast AL			66					
25	Process Connection	1/2" - NPTM			67					
26					68					
27					69					
28					70					
29					71					
DIAPHRAGM SEALS					ACCESSORIES					
31	Seal	No	Without Seal		72	Indicator	Yes			
32	Flange Size / Rating				73	Integral Meter Scale	-			
33	Flange Facing / Finish				74	Mounting Bracket	Yes			
34	Capillary Type / Length				75	Integral Manifold	Yes			
35	Capillary Material				76	Manifold Type	2 Valve			
36	Fill Fluid				77	Manifold Material	316 SS			
37	Flushing Connection				78	Manifold Process Connection	1/2" - NPT Female			
38	Diaphragm Material				79	Manifold Model	VTA			
39	Model				80	Sunshade	No			
40	Process Connection				81					
41	Upper Housing Material				82					
	Lower Housing Material				83					
PROCESS DATA					REQUIREMENTS AND TEST					
43	Fluid	PROPANE			84	NACE Requirements	No			
44	Phase Fluid	Gas			85	ASME UV STAMP Required	No			
45	Operating Conditions	Min	Norm	Max	86	Material Certification	Yes			
46	Pressure (Upstream)	bar A	4.65		87	Test Requirements	-			
47	Temperature	°C	-0.17		88	Factory Configuration	Yes			
48	Corrosive Agents	-			89	Factory Calibration	Yes			
49	Toxic Agents	PROPANE			90	SIL Requirements	-			
50	Design Pressure Min / Max	bar G	FV	22	91	NDE				
51	Design Temp. Min / Max	°C	-45	120	92	Hydro Test	1.5 times of scaled range			
52					93					
53					94					
54					95					
55					96					
PURCHASE DATA					NOTES					
98	Manufacturer	WIKA			104					
99	Model Number	IPT-20								
100	Smart Plant Code / Glovia Code									
101	Mtr. Requisition									
102	Purchase Order No.									
103	Item Number									



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1	Tag No.	PIT-RU0001A-02,PIT-RU0001B-02			7	AREA Classification	Zone 2 IIB T3			
2	Service	Compressor Lubricant Inlet			8					
3	Line No.	2"-OI-RU0001A05-MS3R0-E			9					
4	Line Size	Line Schedule	2"		10					
5	Equipment No.				11					
6	PID No.	EI027-HSE-VD-PR-PID-002 (2/7)			12					
TRANSMITTER BODY					BASIS AND SELECTION					
13	Instrument Function	Gauge Pressure			55	Mounting	Bracket for 2" pipe			
14	Element Type	Pressure Cell			56	Power Supply From	24 Vdc	System		
15	Element Material	Stainless Steel & Hastelloy			57	Accuracy %	±0.2% F.S			
16	Body Material	Stainless Steel			58	Repeatability %	4-20 mA Hart			
17	Material Detail	316L SST			59	Output signal	IP 65			
18	Body Rating				60	Electrical Protection	Ex ia IIB T3			
19	Overrange Protection	130% of Range			61	IP Rating	External			
20	Vent	Drain	Yes	No	62	Zero Adjustment	External			
21	Fill Fluid	Silicone Oil			63	Electrical Connections	M20 x 1.5			
22	Wetted O-Rings Material	Teflon-coated 316L			64	Span Adjustable	External			
23	Bolts Material	Stainless Steel			65	Calibrated Range	bar G	-1	-	27.6
24	Housing Material	Die-Cast AL			66	Instrument Range	bar G	-1	-	40
25	Process Connection	1/2" - NPTM			67					
26					68					
27					69					
28					70					
29					71					
DIAPHRAGM SEALS					ACCESSORIES					
31	Seal	No	Without Seal		72	Indicator	Yes			
32	Flange Size / Rating				73	Integral Meter Scale	-			
33	Flange Facing / Finish				74	Mounting Bracket	Yes			
34	Capillary Type / Length				75	Integral Manifold	Yes			
35	Capillary Material				76	Manifold Type	2 Valve			
36	Fill Fluid				77	Manifold Material	316 SS			
37	Flushing Connection				78	Manifold Process Connection	1/2" - NPTF			
38	Diaphragm Material				79	Manifold Model	VTA			
39	Model				80	Manifold Sunshade	No			
40	Process Connection				81					
41	Upper Housing Material				82					
	Lower Housing Material				83					
PROCESS DATA					REQUIREMENTS AND TEST					
43	Fluid	Lubricant Oil			84	NACE Requirments	No			
44	Phase Fluid	Liquid			85	ASME UV STAMP Required	No			
45	Operating Conditions	Min	Norm	Max	86	Material Certification	Yes			
46	Pressure (Upstream)	bar A	22.50		87	Test Requirements	-			
47	Temperature	°C	60.00		88	Factory Configuration	Yes			
48	Corrosive Agents	-			89	Factory Calibration	Yes			
49	Toxic Agents	-			90	SIL Requirements	-			
50	Design Pressure Min / Max	bar G	26		91	NDE				
51	Design Temp. Min / Max	°C	-29	100	92	Hydro Test	1.5 times of scaled range			
52					93					
53					94					
54					95					
55					96					
PURCHASE DATA					NOTES					
98	Manufacturer	WIKA			104					
99	Model Number	IPT-20								
100	Smart Plant Code / Glovia Code									
101	Mtr. Requisition									
102	Purchase Order No.									
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1	Tag No.	PIT-RU0001A-03,PIT-RU0001B-03			7	AREA Classification	Zone 2 IIB T3			
2	Service	Oil Separator			8					
3	Line No.				9					
4	Line Size	Line Schedule			10					
5	Equipment No.				11					
6	PID No.	EI027-HSE-VD-PR-PID-002 (3/7)			12					
TRANSMITTER BODY					BASIS AND SELECTION					
13	Instrument Function	Gauge Pressure			55	Mounting	Bracket for 2" pipe			
14	Element Type	Pressure Cell			56	Power Supply From	24 Vdc	System		
15	Element Material	Stainless Steel & Hastelloy			57	Accuracy	Repeatability ±0.2% F.S			
16	Body Material	Stainless Steel			58	Output signal	4-20 mA Hart			
17	Material Detail	316L SST			59	Electrical Protection	IP 65			
18	Body Rating	-			60	IP Rating	Ex ia IIB T3			
19	Overrange Protection	130% of Range			61	Zero Adjustment	External			
20	Vent	Drain	Yes	No	62	Electrical Connections	M20 x 1.5			
21	Fill Fluid	Silicone Oil			63	Span Adjustable	External			
22	Wetted O-Rings Material	Teflon-coated 316L			64	Calibrated Range	bar G	-1	-	27.6
23	Bolts Material	Stainless Steel			65	Instrument Range	bar G	-1	-	40
24	Housing Material	Die-Cast AL			66					
25	Process Connection	1/2" - NPTM			67					
26					68					
27					69					
28					70					
29					71					
DIAPHRAGM SEALS					ACCESSORIES					
31	Seal	No	Without Seal		72	Indicator	Yes			
32	Flange Size / Rating				73	Integral Meter Scale	-			
33	Flange Facing / Finish				74	Mounting Bracket	Yes			
34	Capillary Type / Length				75	Integral Manifold	Yes			
35	Capillary Material				76	Manifold Type	2 Valve			
36	Fill Fluid				77	Manifold Material	316 SS			
37	Flushing Connection				78	Manifold Process Connection	1/2" - NPTF			
38	Diaphragm Material				79	Manifold Model	VTA			
39	Model				80	Sunshade	No			
40	Process Connection				81					
41	Upper Housing Material				82					
	Lower Housing Material				83					
PROCESS DATA					REQUIREMENTS AND TEST					
43	Fluid	PROPANE			84	NACE Requirments	No			
44	Phase Fluid	Gas			85	ASME UV STAMP Required	No			
45	Operating Conditions	Min	Norm	Max	86	Material Certification	Yes			
46	Pressure (Upstream)	bar A	20.20		87	Test Requirements	-			
47	Temperature	°C	73.50		88	Factory Configuration	Yes			
48	Corrosive Agents	-			89	Factory Calibration	Yes			
49	Toxic Agents	-			90	SIL Requirements	-			
50	Design Pressure Min / Max	bar G	22		91	NDE				
51	Design Temp. Min / Max	°C	-29	100	92	Hydro Test	1.5 times of scaled range			
52					93					
53					94					
54					95					
55					96					
PURCHASE DATA					NOTES					
98	Manufacturer	WIKA			104					
99	Model Number	IPT-20								
100	Smart Plant Code / Glovia Code									
101	Mtr. Requisition									
102	Purchase Order No.									
103	Item Number									



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GENERAL										
1	Tag No.	PIT-RU0001A-04,PIT-RU0001B-04			7	AREA Classification	Zone 2 IIB T3			
2	Service	Oil Separator			8					
3	Line No.				9					
4	Line Size	Line Schedule			10					
5	Equipment No.	RU0001(A/B)-D-01			11					
6	PID No.	EI027-HSE-VD-PR-PID-002 (3/7)			12					
TRANSMITTER BODY					BASIS AND SELECTION					
13	Instrument Function	Gauge Pressure			55	Mounting	Bracket for 2" pipe			
14	Element Type	Pressure Cell			56	Power Supply From	24 Vdc	System		
15	Element Material	Stainless Steel & Hastelloy			57	Accuracy	Repeatability ±0.2% F.S			
16	Body Material	Stainless Steel			58	Output signal	4-20 mA Hart			
17	Material Detail	316L SST			59	Electrical Protection	IP 65			
18	Body Rating	-			60	IP Rating	Ex ia IIB T3			
19	Overrange Protection	130% of Range			61	Zero Adjustment	External			
20	Vent	Drain	Yes	No	62	Electrical Connections	M20 x 1.5			
21	Fill Fluid	Silicone Oil			63	Span Adjustable	External			
22	Wetted O-Rings Material	Teflon-coated 316L			64	Calibrated Range	bar G	-1	-	27.6
23	Bolts Material	Stainless Steel			65	Instrument Range	bar G	-1	-	40
24	Housing Material	Die-Cast AL			66					
25	Process Connection	1/2" - NPTM			67					
26					68					
27					69					
28					70					
29					71					
DIAPHRAGM SEALS					ACCESSORIES					
31	Seal	No	Without Seal		72	Indicator	Yes			
32	Flange Size / Rating				73	Integral Meter Scale	-			
33	Flange Facing / Finish				74	Mounting Bracket	Yes			
34	Capillary Type / Length				75	Integral Manifold	Yes			
35	Capillary Material				76	Manifold Type	2 Valve			
36	Fill Fluid				77	Manifold Material	316 SS			
37	Flushing Connection				78	Manifold Process Connection	1/2" - NPTF			
38	Diaphragm Material				79	Manifold Model	VTA			
39	Model				80	Sunshade	No			
40	Process Connection				81					
41	Upper Housing Material				82					
	Lower Housing Material				83					
PROCESS DATA					REQUIREMENTS AND TEST					
43	Fluid	PROPANE			84	NACE Requirments	Yes			
44	Phase Fluid	Gas			85	ASME UV STAMP Required	-			
45	Operating Conditions	Min	Norm	Max	86	Material Certification	Yes			
46	Pressure (Upstream)	bar A	19.80		87	Test Requirements	Yes			
47	Temperature	°C	73.50		88	Factory Configuration	2 Valve			
48	Corrosive Agents	-			89	Factory Calibration	316 SS			
49	Toxic Agents	-			90	SIL Requirements	1/2" - NPTF			
50	Design Pressure Min / Max	bar G	22		91	NDE	-			
51	Design Temp. Min / Max	°C	-29	100	92	Hydro Test	No			
52					93					
53					94					
54					95					
55					96					
PURCHASE DATA					NOTES					
98	Manufacturer	WIKA			104					
99	Model Number	IPT-20								
100	Smart Plant Code / Glovia Code									
101	Mtr. Requisition									
102	Purchase Order No.									
103	Item Number									



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GENERAL									
1	Tag No.	PIT-RU0001A-05,PIT-RU0001B-05			7	AREA Classification	Zone 2 IIB T3		
2	Service	Oil Cooler Discharge			8				
3	Line No.	2"-0I-RU0001(A/B)02-MC3R1-E			9				
4	Line Size	Line Schedule	2"		10				
5	Equipment No.	-			11				
6	PID No.	EI027-HSE-VD-PR-PID-002 (3/7)			12				
TRANSMITTER BODY					BASIS AND SELECTION				
13	Instrument Function	Gauge Pressure			55	Mounting	Bracket for 2" pipe		
14	Element Type	Pressure Cell			56	Power Supply From	24 Vdc	System	
15	Element Material	Stainless Steel & Hastelloy			57	Accuracy %	Repeatability	±0.2% F.S	
16	Body Material	Stainless Steel			58	Output signal	4-20 mA Hart		
17	Material Detail	316L SST			59	Electrical Protection	IP 65		
18	Body Rating	-			60	IP Rating	Ex ia IIB T3		
19	Overrange Protection	130% of Range			61	Zero Adjustment	External		
20	Vent	Drain	Yes	No	62	Electrical Connections	M20 x 1.5		
21	Fill Fluid	Silicone Oil			63	Span Adjustable	External		
22	Wetted O-Rings Material	Teflon-coated 316L			64	Calibrated Range	bar G	-1	27.6
23	Bolts Material	Stainless Steel			65	Instrument Range	bar G	-1	40
24	Housing Material	Die-Cast AL			66				
25	Process Connection	1/2" - NPTM			67				
26					68				
27					69				
28					70				
29					71				
DIAPHRAGM SEALS					ACCESSORIES				
31	Seal	No	Without Seal		72	Indicator	Yes		
32	Flange Size / Rating				73	Integral Meter Scale	-		
33	Flange Facing / Finish				74	Mounting Bracket	Yes		
34	Capillary Type / Length				75	Integral Manifold	Yes		
35	Capillary Material				76	Manifold Type	2 Valve		
36	Fill Fluid				77	Manifold Material	316 SS		
37	Flushing Connection				78	Manifold Process Connection	1/2" - NPTF		
38	Diaphragm Material				79	Manifold Model	VTA		
39	Model				80	Sunshade	No		
40	Process Connection				81				
41	Upper Housing Material				82				
	Lower Housing Material				83				
PROCESS DATA					REQUIREMENTS AND TEST				
43	Fluid	Oil			84	NACE Requirments	No		
44	Phase Fluid	Liquid			85	ASME UV STAMP Required	No		
45	Operating Conditions	Min	Norm	Max	86	Material Certification	Yes		
46	Pressure (Upstream)	bar A	19.70		87	Test Requirements	-		
47	Temperature	°C	60.00		88	Factory Configuration	Yes		
48	Corrosive Agents	-			89	Factory Calibration	Yes		
49	Toxic Agents	-			90	SIL Requirements	-		
50	Design Pressure Min / Max	bar G	22		91	NDE			
51	Design Temp. Min / Max	°C	-29	100	92	Hydro Test	1.5 times of scaled range		
52					93				
53					94				
54					95				
55					96				
PURCHASE DATA					NOTES				
98	Manufacturer	WIKA			104				
99	Model Number	IPT-20							
100	Smart Plant Code / Glovia Code								
101	Mtr. Requisition								
102	Purchase Order No.								
103	Item Number								



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GENERAL										
1	Tag No.	PIT-RU0001A-06,PIT-RU0001B-06			7	AREA Classification	Zone 2 IIB T3			
2	Service	Oil Pump Suction			8					
3	Line No.	2"-0I-68003A-MS3R0-E			9					
4	Line Size	Line Schedule			10					
5	Equipment No.	-			11					
6	PID No.	PJ-80-KAS-PR-PID-4100-0001-001 (7/9)			12					
TRANSMITTER BODY					BASIS AND SELECTION					
13	Instrument Function	Gauge Pressure			55	Mounting	Bracket for 2" pipe			
14	Element Type	Pressure Cell			56	Power Supply From	24 Vdc	System		
15	Element Material	Stainless Steel & Hastelloy			57	Accuracy %	Repeatability ±0.2% F.S			
16	Body Material	Stainless Steel			58	Output signal	4-20 mA Hart			
17	Material Detail	316L SST			59	Electrical Protection	IP 65			
18	Body Rating	-			60	IP Rating	Ex ia IIB T3			
19	Overrange Protection	130% of Range			61	Zero Adjustment	External			
20	Vent	Drain	Yes	No	62	Electrical Connections	M20 x 1.5			
21	Fill Fluid	Silicone Oil			63	Span Adjustable	External			
22	Wetted O-Rings Material	Teflon-coated 316L			64	Calibrated Range	bar G	-1	-	27.6
23	Bolts Material	Stainless Steel			65	Instrument Range	bar G	-1	-	40
24	Housing Material	Die-Cast AL			66					
25	Process Connection	1/2" - NPTM			67					
26					68					
27					69					
28					70					
29					71					
DIAPHRAGM SEALS					ACCESSORIES					
31	Seal	No	Without Seal		72	Indicator	Yes			
32	Flange Size / Rating				73	Integral Meter Scale	-			
33	Flange Facing / Finish				74	Mounting Bracket	Yes			
34	Capillary Type / Length				75	Integral Manifold	Yes			
35	Capillary Material				76	Manifold Type	2 Valve			
36	Fill Fluid				77	Manifold Material	316 SS			
37	Flushing Connection				78	Manifold Process Connection	1/2" - NPTF			
38	Diaphragm Material				79	Manifold Model	VTA			
39	Model				80	Sunshade	No			
40	Process Connection				81					
41	Upper Housing Material				82					
	Lower Housing Material				83					
PROCESS DATA					REQUIREMENTS AND TEST					
43	Fluid	Oil			84	NACE Requirments	No			
44	Phase Fluid	Liquid			85	ASME UV STAMP Required	No			
45	Operating Conditions	Min	Norm	Max	86	Material Certification	Yes			
46	Pressure (Upstream)	bar A	19.70		87	Test Requirements	-			
47	Temperature	°C	60.00		88	Factory Configuration	Yes			
48	Corrosive Agents	-			89	Factory Calibration	Yes			
49	Toxic Agents	-			90	SIL Requirements	-			
50	Design Pressure Min / Max	bar G	22		91	NDE	-			
51	Design Temp. Min / Max	°C	-29	100	92	Hydro Test	1.5 times of scaled range			
52					93					
53					94					
54					95					
55					96					
PURCHASE DATA					NOTES					
98	Manufacturer	WIKA			104					
99	Model Number	IPT-20								
100	Smart Plant Code / Glovia Code									
101	Mtr. Requisition									
102	Purchase Order No.									
103	Item Number									



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GENERAL												
1	Tag No.	TIT-RU0001A-01,TIT-RU0001B-01			7	AREA Classification	Zone 2 IIB T3					
2	Service	Compressor Suction			8							
3	Line No.	5"-PR-RU0001(A/B)01-ML3R1-C			9							
4	Line Size	Line Schedule	5"		10							
5	Equipment No.	-			11							
6	PID No.	EI027-HSE-VD-PR-PID-002 (2/7)			12							
ELEMENT / THERMOWELL					PROCESS DATA							
13	Element	Tolerance as per	RTD	IEC-60751	56	Fluid Name / Phase	Propane / Vapor					
14	Element Type	PT100Ω-0°C-Resistance			57	Solids in Fluid	Kg	-				
15	Element Wires Material	Single RTD PT100 (3W)			58	Operating Conditions	Min	Norm	Max			
16	Quantity	1			59	Operating Pressure	bar A					
17	Element External Diameter	6 mm			60	Temperature	°C	-0.07				
18	Wire Size	Insulation	0.5 mm	Mg. Oxide	61	Flow	Kg/h	2847				
19	Sheath Material	316 SS			62	Max. Velocity	m/s	4.2				
20	Connection Type	3 Wire			63	Design Pressure Min	bar G	FV	22			
21	Spring Load	Yes			64	Design Temp. Min / Max	°C	-29	120			
22	Hot Junction	-			65	Corrosive Agents	-					
23	Thermowell Construction	Barstock Drilled			66	Toxic Agents	-					
24	Standard Drawing	-			67	Density	Kg/m3	10.22				
25	Thermowell Material	316L SS			68	Viscosity	cP	0.0078				
26	Insertion Length "U"	80 mm			69							
27	Lagging Extension "T"	50 mm				TRANSMITTER						
28	Overall Thermowell Extension	130 mm			70	Location / Mounting	Local / vertical					
29	Length Code	-			71	Electrical Protection	Ex ia IIB T3					
30	Flange Material	-			72	Housing Material	Die-cast AL					
31	Size	Rating	Facing	1/2" BSPT	73	Burn-out direction	-					
32	Internal connection	M20 x 1.5			74	Cold Junction Compensation						
33	Thermowell Supply	Yes			75	Electical Connections	Yes					
34	Thermowell Tag				76	Cable Entries Qty.	2					
35	Stamping	Engraved			77	Integral Indicator / Mounting	Yes					
36	Process Connection	Thread			78	IP Rating	IP 65					
	EXTENSION NIPPLE				79	Accuracy	+/- 0.2% F.S.					
37	Extension Type	Nipple Union			80	Calibration Range	°C	-50	-	150		
38	Nipple Length	50 mm			81	Instrument Range	°C	-50	-	150		
39	Process Connection	1/2"			82	Cable Gland size	M20 x 1.5					
40	Compression Gland Material	Stainless Steel				COMMUNICATION						
	HEAD				83	Power Supply / From	24 Vdc	System				
41	Head Type	Standard			84	Output Signal	4-20 mA Hart					
42	Head Material	Stainless Steel			85							
43	Electical enclosure Class	IP 65				CONFIGURATION						
44	Electrical Connections	M20 x 1.5			86	Input Range Limits	°C	-50	-	150		
45	Terminal Block	Lead Wires			87	Factory Configuration	Yes					
46	Screw Cover / Chain	No			88	Factory Calibration	Yes					
47	Specific Span	-50	-	150	89							
48						REQUIREMENTS AND TEST						
49					90	NACE Requirments	No					
	ACCESSORIES				91	Hydro Test	Yes					
50	Sunshade	No			92	Material Certification	3.1 Material Certificate					
51	Nipple	No			93	Test Requirements	Yes					
52	Chain	No			94	Factory Checking	Yes					
53					95	Factory Calibration	N/A					
54					96	PMI	No					
55					97	NDE	Manufacturer's Standard					
	PURCHASE DATA					NOTES						
98	Manufacturer	WIKA			104	Note 1: Element and transmitter installed on same housing. Transmitter to be locally mounted attached on temperature element Note 2: Wake frequency calculation will be submitted by Vendor.						
99	Model Number	TIF50/TW10										
100	Smart Plant Code / Glovia Code											
101	Mtr. Requisition											
102	Purchase Order No.											
103	Item Number											



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1	Tag No.	TIT-RU0001A-02,TIT-RU0001B-02			7	AREA Classification	Zone 2 IIB T3					
2	Service	Lub Oil			8							
3	Line No.	2"-0I-RU0001(A/B)5-MS3R0-E			9							
4	Line Size	Line Schedule	2"		10							
5	Equipment No.	-			11							
6	PID No.	EI027-HSE-VD-PR-PID-002 (2/7)			12							
ELEMENT / THERMOWELL				PROCESS DATA								
13	Element	Tolerance as per	RTD	IEC-60751	56	Fluid Name / Phase	Lubricant Oil / Liquid					
14	Element Type	PT100Ω-0°C-Resistance			57	Solids in Fluid	Kg		-			
15	Element Wires Material	Single RTD PT100 (3W)			58	Operating Conditions	Min	Norm	Max			
16	Quantity	1			59	Operating Pressure	bar A	22.5				
17	Element External Diameter	6 mm			60	Temperature	°C		60			
18	Wire Size	Insulation	0.5 mm		Mg. Oxide	61	Flow	Kg/h		3208		
19	Sheath Material	316 SS			62	Max. Velocity	m/s		0.5			
20	Connection Type	3 Wire			63	Design Pressure Min / Max	bar G	26				
21	Spring Load	Yes			64	Design Temp. Min / Max	°C		-29	100		
22	Hot Junction	-			65	Corrosive Agents	-					
23	Thermowell Construction	Barstock Drilled			66	Toxic Agents	-					
24	Standard Drawing	-			67	Density	Kg/m3		1005			
25	Thermowell Material	316L SS			68	Viscosity	cP		12			
26	Insertion Length "U"	50 mm			69							
27	Lagging Extension "T"	50 mm				TRANSMITTER						
28	Overall Thermowell Extension	100 mm			70	Location / Mounting	Local / vertical					
29	Length Code	-			71	Electrical Protection	Ex ia IIB T3					
30	Flange Material	-			72	Housing Material	Die-cast AL					
31	Size	Rating	Facing	1/2" BSPT	73	Burn-out direction	-					
32	Internal connection	M20 x 1.5			74	Cold Junction Compensation						
33	Thermowell Supply	Yes			75	Electical Connections	Yes					
34	Thermowell Tag				76	Cable Entries Qty.	2					
35	Stamping	Engraved			77	Integral Indicator / Mounting	Yes					
36	Process Connection	Thread			78	IP Rating	IP 65					
					79	Accuracy	+/- 0.2% F.S.					
EXTENSION NIPPLE				80	Calibration Range	°C	-50	-	150			
37	Extension Type	Nipple Union			81	Instrument Range	°C	-50	-	150		
38	Nipple Length	50 mm			82	Cable Gland size	M20 x 1.5					
39	Process Connection	-				COMMUNICATION						
40	Compression Gland Material	Stainless Steel			83	Power Supply / From	24 Vdc		System			
					84	Output Signal	4-20 mA Hart					
41	Head Type	Standard			85							
42	Head Material	Stainless Steel				CONFIGURATION						
43	Electical enclosure Class	IP 65			86	Input Range Limits	°C	-	-	-		
44	Electrical Connections	M20 x 1.5			87	Factory Configuration	Yes					
45	Terminal Block	Lead Wires			88	Factory Calibration	Yes					
46	Screw Cover / Chain	No			89							
47	Specific Span	-50	-	150		REQUIREMENTS AND TEST						
48					90	NACE Requirments	No					
49					91	Hydro Test	Yes					
ACCESSORIES				92	Material Certification	3.1 Material Certificate						
50	Sunshade	No			93	Test Requirements	Yes					
51	Nipple	No			94	Factory Checking	Yes					
52	Chain	No			95	Factory Calibration	N/A					
53					96	PMI	No					
54					97	NDE	Manufacturer's Standard					
55						NOTES						
PURCHASE DATA				104	Note 1: Element and transmitter installed on same housing. Transmitter to be locally mounted attached on temperature element Note 2: Wake frequency calculation will be submitted by Vendor.							
98	Manufacturer	WIKA										
99	Model Number	TIF50/TW10										
100	Smart Plant Code / Glovia Code											
101	Mtr. Requisition											
102	Purchase Order No.											
103	Item Number											



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1	Tag No.	TIT-RU0001A-03,TIT-RU0001B-03			7	AREA Classification	Zone 2 IIB T3			
2	Service	Oil Separator			8					
3	Line No.				9					
4	Line Size	Line Schedule			10					
5	Equipment No.	RU0001(A/B)-D-01			11					
6	PID No.	EI027-HSE-VD-PR-PID-002 (3/7)			12					
ELEMENT / THERMOWELL				PROCESS DATA						
13	Element	Tolerance as per	RTD	IEC-60751	56	Fluid Name / Phase	Lubricant Oil / Liquid			
14	Element Type	PT100Ω-0°C-Resistance			57	Solids in Fluid	Kg	-		
15	Element Wires Material	Single RTD PT100 (3W)			58	Operating Conditions	Min	Norm	Max	
16	Quantity	1			59	Operating Pressure	bar A	20.2		
17	Element External Diameter	6 mm			60	Temperature	°C	73.5		
18	Wire Size	Insulation	0.5 mm	Mg. Oxide	61	Flow	Kg/h	-		
19	Sheath Material	316 SS			62	Max. Velocity	m/s	-		
20	Connection Type	3 Wire			63	Design Pressure Min	bar G	22		
21	Spring Load	Yes			64	Design Temp. Min / Max	°C	-29	100	
22	Hot Junction	-			65	Corrosive Agents	-			
23	Thermowell Construction	Barstock Drilled			66	Toxic Agents	-			
24	Standard Drawing	-			67	Density	Kg/m3	1005		
25	Thermowell Material	316L SS			68	Viscosity	cP	12		
26	Insertion Length "U"	200 mm			69					
27	Lagging Extension "T"	50 mm				TRANSMITTER				
28	Overall Thermowell Extension	250 mm			70	Location / Mounting	Local / vertical			
29	Length Code	-			71	Electrical Protection	Ex ia IIB T3			
30	Flange Material	-			72	Housing Material	Die-cast AL			
31	Size	Rating	Facing	1/2" BSPT	73	Burn-out direction	-			
32	Internal connection	M20 x 1.5			74	Cold Junction Compensation				
33	Thermowell Supply	Yes			75	Electical Connections	Yes			
34	Thermowell Tag				76	Cable Entries Qty.	2			
35	Stamping	Engraved			77	Integral Indicator / Mounting	Yes			
36	Process Connection	Thread			78	IP Rating	IP 65			
EXTENSION NIPPLE				79	Accuracy	+/- 0.2% F.S.				
37	Extension Type	Nipple Union			80	Calibration Range	°C	-50	-	150
38	Nipple Length	100 mm			81	Instrument Range	°C	-50	-	150
39	Process Connection	-			82	Cable Gland size	M20 x 1.5			
40	Compression Gland Material	Stainless Steel				COMMUNICATION				
HEAD				83	Power Supply / From	24 Vdc	System			
41	Head Type	Standard			84	Output Signal	4-20 mA Hart			
42	Head Material	Stainless Steel			85					
43	Electical enclosure Class	IP 65				CONFIGURATION				
44	Electrical Connections	M20 x 1.5			86	Input Range Limits	°C	VTA	-	VTA
45	Terminal Block	Lead Wires			87	Factory Configuration	Yes			
46	Screw Cover / Chain	No			88	Factory Calibration	Yes			
47	Specific Span	-50	-	150	89					
48						REQUIREMENTS AND TEST				
49					90	NACE Requirments	No			
ACCESSORIES				91	Hydro Test	Yes				
50	Sunshade	No			92	Material Certification	3.1 Material Certificate			
51	Nipple	No			93	Test Requirements	Yes			
52	Chain	No			94	Factory Checking	Yes			
53					95	Factory Calibration	N/A			
54					96	PMI	No			
55					97	NDE	Manufacturer's Standard			
PURCHASE DATA				NOTES						
98	Manufacturer	WIKA			104	Note 1: Element and transmitter installed on same housing. Transmitter to be locally mounted attached on temperature element Note 2: Wake frequency calculation will be submitted by Vendor.				
99	Model Number	TIF50/TW10								
100	Smart Plant Code / Glovia Code									
101	Mtr. Requisition									
102	Purchase Order No.									
103	Item Number									