



	<b>Gachsaran Polymer Industries Company</b> <b>HDPE Plant</b>			
	<b>Instrument Datasheet &amp; Catalogs</b>		 	
PO No.: GPIC-PT-MA-PO-000-3029	Document Number: VD-GPIC-MA-3029-3029-0038		Rev. 01	Page 1 of 27

## Instrument Datasheet & Catalogs

<b>Code1</b>	<input type="checkbox"/> <b>No Comment/ Approved</b> (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
<b>Code2</b>	<input checked="" type="checkbox"/> <b>No Comment/ Approved with Note(s)</b> Vendor/Sub-Contractor shall correct, revise and resubmit the document. The document is released for Manufacturing if changes incorporated.
<b>Code3</b>	<input type="checkbox"/> <b>Commented</b> Vendor/Sub-Contractor shall correct, revise and resubmit the document by the date specified. The document shall be revised under the Status of "R: Revised Issue". All corrected documents shall be resubmitted before starting the Manufacturing Process.
<b>Code 4</b>	<input type="checkbox"/> <b>Not Accepted (Rejected )</b> Vendor/Sub-Contractor shall re-work / re-design / re-specify the contents of the document according to the comments / reasons for rejection. All corrected documents shall be resubmitted before starting the manufacturing. Vendor/Sub-Contractor shall not proceed with subsequent works of Material Supply or Manufacturing until receiving Code1/Code2 or No Code from PURCHASER. Vendor/Sub-Contractor shall resubmit the document with the same revision within 6 working days after receiving comments.
<b>No code</b>	<input type="checkbox"/> <b>No Code</b> ( Applicable Only for "For Information" Documents and "As Built DWGs") Document has been submitted for PURCHASER's Information (FI). Consistency, completeness and correctness of document content is in Vendor/Sub-Contractor's responsibility.
Above checking results by EIED shall in no way relieve Vendor of any liability, obligation and responsibility out of the purchase order and the mutual agreement in writing.	
 <b>EIED</b> Energy Industries Engineering & Design co.	<b>Date:</b> Dec. 20 , 2025 <b>Dept.:</b> MA <b>Signature:</b> F.Hamooni

01	8-Dec-25	IFR	N.B	F.T	A.M
00	12-Oct-25	IFR	N.B	F.T	A.M
<b>Rev.</b>	<b>DATE</b>	<b>PURPOSE OF ISSUE</b>	<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>



<p><b>PR General Comment:</b> Instrument data sheet will be finalized after finalization of "HAZOP Implementation Report" of package. Vendor Reply: Noted</p>	<p><b>PRESSURE GAUGE</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>BY</th> <th>APP</th> <th>DATE</th> </tr> <tr> <td>N.B</td> <td>A.M</td> <td>12.10.25</td> </tr> <tr> <td>01</td> <td>N.B</td> <td>A.M</td> </tr> <tr> <td></td> <td></td> <td>09.12.25</td> </tr> </table>	BY	APP	DATE	N.B	A.M	12.10.25	01	N.B	A.M			09.12.25	<p>Document No: VD-GPIC-MA-3029-3029-0038</p>	<p><b>IN-01. Manufacturer and Model no. of all instruments in all sheets shall be specified after Vendor selection.</b> Vendor Reply: Noted</p>
BY	APP	DATE													
N.B	A.M	12.10.25													
01	N.B	A.M													
		09.12.25													

**PR-01:**  
As per the HAZOP recommendation regarding the deletion of isolation valves for E-6104 and E-6102, two ROs have been added in the new revision of the vendor's P&ID. The data sheet of these ROs shall be added to the instrument data sheet of the package.  
Vendor Reply: Noted. Pleaserefer to 2 lats pages of revised data sheet

<p>2. Mounting Surface <input type="checkbox"/> Local <input checked="" type="checkbox"/> Flush <input type="checkbox"/></p> <p>3. Dial Diameter 6" (150) <input checked="" type="checkbox"/> Color: WHITE (NOTE 13)</p> <p>4. Case: Cast Iron <input type="checkbox"/> Aluminum <input type="checkbox"/> Phenolic <input type="checkbox"/> Stainless Steel <input checked="" type="checkbox"/> Other: <input type="checkbox"/></p> <p>5. Ring: Screwed <input checked="" type="checkbox"/> Hinged <input type="checkbox"/> Slip <input type="checkbox"/> Std <input type="checkbox"/> Other <input type="checkbox"/></p> <p>6. Blow-out Protection: None <input type="checkbox"/> Back <input checked="" type="checkbox"/> Disc <input type="checkbox"/> Solid Front <input type="checkbox"/> Other <input type="checkbox"/></p> <p>7. Lens: Glass <input checked="" type="checkbox"/> SAFETY GLASS FRONT Plastic <input type="checkbox"/></p> <p>8. Option: Syphon <input type="checkbox"/> Material: NONE Snubber <input type="checkbox"/> Material: NONE Pressure Limit Valve <input type="checkbox"/> Movement Damping <input checked="" type="checkbox"/> GLYCERINE FILLED</p> <p>9. Nominal Accuracy Required: +/- 1%</p>	<p>11. Pressure Element: Bourdon <input checked="" type="checkbox"/> Bellows <input type="checkbox"/> Other <input type="checkbox"/></p> <p>12. Bourdon Mat'l: Bronze <input type="checkbox"/> Steel <input type="checkbox"/> 316SS <input checked="" type="checkbox"/> Other <input type="checkbox"/></p> <p>13. Socket Mat'l: Bronze <input type="checkbox"/> Steel <input type="checkbox"/> 316SS <input checked="" type="checkbox"/> Other <input type="checkbox"/></p> <p>14. MNPT Conn.: 1/4" <input type="checkbox"/> 1/2" <input checked="" type="checkbox"/> Other <input type="checkbox"/> Bottom <input checked="" type="checkbox"/> Back <input type="checkbox"/></p> <p>15. Movement Mat'l: Bronze <input type="checkbox"/> 316SS <input checked="" type="checkbox"/> Nylon <input type="checkbox"/> Other <input type="checkbox"/></p> <p>16. Diaphragm Seal MFG NOT REQUIRED Wetted Part Mtl. Type Fill Fluid Other Mat'l Process Conn. Gage Conn.</p>
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Item	Qty.	Tag No.	Range PSIG BAR	Oper. Pressure PSIG (BarG)		Service	MANUFACTURER Model NO.
				OPER.	MAX.		
A	1	PG-61133 PUMP DISCHARGE	0 to 590 0 to 40	336 23.2	351 24.2	PROPYLENE GAS & SYNTHETIC OIL	
B	1	PG-61134 PUMP DISCHARGE	0 to 590 0 to 40	336 23.2	351 24.2	PROPYLENE GAS & SYNTHETIC OIL	
C	1	PG-61142 RECEIVER	0 to 590 0 to 40	270 18.6	351 24.2	PROPYLENE GAS & SYNTHETIC OIL	
D	1	PG-61111 SUCTION	0 to 60 0 to 4	23 1.6	26 1.8	PROPYLENE GAS & SYNTHETIC OIL	
E	1	PG-61121 SUCTION	0 to 60 0 to 4	23 1.6	26 1.8	PROPYLENE GAS & SYNTHETIC OIL	
F	1	PG-61113 OIL SUPPLY	0 to 590 0 to 40	305 21.0	335 23.1	PROPYLENE GAS & SYNTHETIC OIL	
G	1	PG-61123 OIL SUPPLY	0 to 590 0 to 40	305 21.0	335 23.1	PROPYLENE GAS & SYNTHETIC OIL	
H							
J							
K	1	PG-61131 DISCHARGE	0 to 590 0 to 40	276 19.0	303 20.9	PROPYLENE GAS & SYNTHETIC OIL	
L							
M							
N							
O							

**Notes:**

1 SYSTEM DESIGN PRESSURE & TEMPERATURE: FV to 362.5 PSIG 25.0 BarG @ 250 °F 121 °C FOR ITEMS: 3  
-45 °F -43 °C  
FV to 406 PSIG 28.0 BarG @ 250 °F 121 °C FOR ITEMS: 1, 2  
-20 °F -29 °C

2 WETTED MATERIAL IS 316 STAINLESS STEEL

3 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT

4 CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED

5 CERTIFICATE OF COMPLIANCE  REQUIRED  NOT REQUIRED

6 CUSTOMER SPECIFICATION: N/A & N/A

7 MECHANICAL OVERPRESSURE PROTECTION IS REQUIRED

8 MATERIAL SHALL BE PER APPROVED VENDOR LIST. DEVIATION FROM "AVL" IS NOT ALLOWED.

9 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT


10 GAUGE OPERATING TEMPERATURE RATING OF 100 C IS ACCEPTBLE AS THE OIL SYSTEM WILL NOT REACG 100C.

11 INGRESS PROTECTION: IP65

12 SCALE PRINTED IN BLACK ON WHITE BACKGROUND


13 REFER TO P&ID AND VALVE DATA SHEETS FOR MANIFOLD VALVE INFORMATION.



				<b>PRESSURE TRANSMITTER CONTROL DEVICES</b>				Document No:	VD-GPIC-MA-3029-3029-0038			
								Document Title:	Instrument Data sheet & Catalogs			
				NO.	BY	APP	DATE	P.O.I.				
<b>CLIENT:</b> Gachsaran Polymer Industries Company (GPIC) <b>P.O. NO.:</b> GPIC-PT-MA-PO-000-3029 <b>SERVICE:</b> PROPYLENE REFERIGERATION PACKAGE				00	N.B	A.M	12.10.25	IFR				
				01	N.B	A.M	09.12.25	IFR				
<b>GENERAL</b>				1	Tag No.			SEE TABLE BELOW				
				2	Qty			Service: See Table Below				
				3	Function	Record <input type="checkbox"/>	Indicate <input checked="" type="checkbox"/>	Control <input checked="" type="checkbox"/>	VIA MCS Blind <input type="checkbox"/>	Trans <input checked="" type="checkbox"/>	Other	
				4	Case	Mfr. Std. <input checked="" type="checkbox"/>	Nom. Size		Color: <input type="checkbox"/>	Other NOTE 2		
				5	Mounting	Flush <input type="checkbox"/>	Surface <input type="checkbox"/>	Yoke <input checked="" type="checkbox"/>		Other		
				6	Enclosure Class	Gen. Purpose <input type="checkbox"/>	Weather Proof <input type="checkbox"/>	Explosion Proof <input type="checkbox"/>		Use in intrinsically <input checked="" type="checkbox"/> EExia Safe System <input type="checkbox"/>		
				7	Power Supply	117V 60 Hz <input type="checkbox"/>	Other ac <input type="checkbox"/>	DC <input checked="" type="checkbox"/>	Volts 24 V			
				8	Chart	N/A	Strip <input type="checkbox"/>	Roll <input type="checkbox"/>	Fold <input type="checkbox"/>	Circular <input type="checkbox"/>	Time Mark: <input type="checkbox"/>	
				9	Chart Drive	N/A	Speed		Power			
				10	Scales	Type: LCD / DIGITAL (UNITS per NOTE 15)					Range: SEE TABLE BELOW	
<b>XMTR</b>				11	Transmitter Output	4-20 mA <input checked="" type="checkbox"/> NOTE 9	10-50mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>		Other		
				For Receiver, see spec sheet. WIRED TO UCP VIA JUNCTION BOXES (2 WIRE OUTPUT) NOTE 9								
<b>CONTROLLER VIA UCP</b>				12	Control Modes	P = Prop (Gain), 1-Integral (Auto Reset), D = Derivative (Rate)					Sub: s = slow, f = fast, If <input type="checkbox"/> Df <input type="checkbox"/> P <input checked="" type="checkbox"/> PID <input type="checkbox"/> PD <input type="checkbox"/> PI <input type="checkbox"/> Is <input type="checkbox"/> Ds <input type="checkbox"/>	
				13	Action	On Measurement Increase, Output:			Increases <input type="checkbox"/> Decreases <input type="checkbox"/>			
				14	Auto-Man Switch	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other <input checked="" type="checkbox"/>		NOTE 21		
				15	Set Point Adj.	Manual <input type="checkbox"/>	External <input type="checkbox"/>	Remote <input checked="" type="checkbox"/> UCP	Other NOTE 9			
				16	Manual Reg.	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other				
				17	Output	4-20 mA <input type="checkbox"/>	NOTE 9	10-50 mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>		Other	
<b>ELEMENT</b>				18	Service	Gage Press <input checked="" type="checkbox"/>	Vacuum <input type="checkbox"/>	Absolute <input type="checkbox"/>		Compound <input type="checkbox"/>		
				19	Element Type	Diaphragm <input type="checkbox"/>	Helix <input type="checkbox"/>	Bourdon <input type="checkbox"/>	Bellovs <input type="checkbox"/>	Other NOTE 19		
				20	Material (body)	316SS <input checked="" type="checkbox"/>	Ber Copper <input type="checkbox"/>	Other <input type="checkbox"/>				
				21	Range	Fixed <input type="checkbox"/>	Adj. Range <input checked="" type="checkbox"/>					
				22	Overrange Protection to:	SEE TABLE BELOW						
				23	Process Data	Press.: Nor.: SEE TABLE BELOW	MAX.:		Element Range:			
				24	Process Conn.	1/4" in NPT <input type="checkbox"/>	1/2" in NPT (F) <input checked="" type="checkbox"/>	Other: 1/2" CONDUIT CONNECTION				
				25	Alarm Switches	Quantity: BY UCP	REFER TO SETPOINT LIST		Form	Rating		
<b>VIA UCP</b>				26	Function	Press. <input checked="" type="checkbox"/>	Deviation <input type="checkbox"/>	Contacts	On Icr. Meas.			
<b>OPTIONS</b>				27	Options	Filter Reg. <input type="checkbox"/>	Sup. Gage <input type="checkbox"/>	Output Gage <input type="checkbox"/>	Charts			
						Diaphragm Seal <input type="checkbox"/>	Type N/A	Diaphragm	Bot. Bowl			
						Conn. Capillary: N/A	Length	Mtl.				
						Other ELECTRICAL GROUND SCREW REQUIRED						
<b>AREA CLASSIFICATION</b>						IEC <input checked="" type="checkbox"/>	ZONE 2, EExia IIB-T3	IP-65 / NEMA4X	Agency Approval:	ATEX		

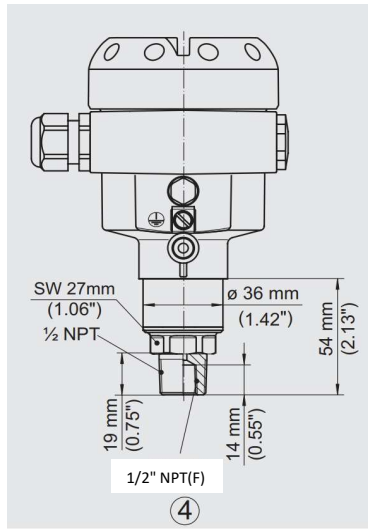
  


Item	Qty	Tag No.	Pressure PSIG - BarG		Operating Press. PSIG / BarG		Calibration mA PSIG / BarG		Manufacturer/ (Note 16) Model no.	Service
			Range	Over	Min	Max	4	20		
A	1	PT-61111	-14.7 to 290	580	22.5	25.9	0.00	250		PROPYLENE &
		SUCTION	-1.01 to 20.0	40.0	1.55	1.76	0.0	17.2		SYNTHETIC OIL
B	1	PT-61113	-14.7 to 580	1160	304.6	343.3	0.00	580		PROPYLENE &
		OIL SUPPLY	-1.01 to 40.0	80.0	21.0	23.7	0.0	40.0		SYNTHETIC OIL
C										
D										
AA	1	PT-61121	-14.7 to 290	580	22.5	25.9	0.00	250		PROPYLENE &
		SUCTION	-1.01 to 20.0	40.0	1.55	1.76	0.0	17.2		SYNTHETIC OIL
BB	1	PT-61123	-14.7 to 580	1160	304.6	256.1	0.00	580		PROPYLENE &
		OIL SUPPLY	-1.01 to 40.0	80.0	21.0	17.7	0.0	40.0		SYNTHETIC OIL
CC	1									
DD	1	PT-61141	-14.7 to 580	1160	85.5	289.1	0.00	580		PROPYLENE &
		ECONOMIZER	-1.01 to 40.0	80.0	5.90	19.9	0.0	40.0		SYNTHETIC OIL


	<b>PRESSURE TRANSMITTER CONTROL DEVICES</b>				Document No:	VD-GPIC-MA-3029-3029-0038
					Document Title:	Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.	
	00	N.B	A.M	12.10.25	IFR	
	01	N.B	A.M	09.12.25	IFR	

- Notes:
- SYSTEM DESIGN PRESSURE & TEMPERATURE:
 

FV to 362.5 PSIG	25.0 BarG	@	250 °F	121 °C	FOR ITEMS: 1, 2
			-45 °F	-43 °C	
FV to 406 PSIG	28.0 BarG	@	250 °F	121 °C	FOR ITEMS: 3
			-20 °F	-29 °C	
  - TRANSMITTER ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED ALUMINUM
  - REFERENCE ACCURACY: +/- 0.1 % OF FULL SCALE & +/- 0.15 % GUARRANTEED STABILITY OVER FIVE YEARS
  - INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT
  - CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED
  - HARD COPY OF IEC-79, EExia IIB-T5 CERTIFICATE  REQUIRED  NOT REQUIRED PER IEC 60079
  - CUSTOMER SPECIFICATION: N/A, N/A & N/A
  - ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON ALUMINUM DIE-CASTING HOUSING STAMPED USING STAINLESS STEEL TAG PERMANENTLY ATTACHED TO THE DEVICE
  - HART COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION
  - AUSTENSIC 316 SS BOLTS REQUIRED
  - MOUNTING BRACKET FOR 2-IN PIPE BY VENDOR (AGCO)
  - LCD METER WITH POLYURETHANE COVERED ALUMINUM COVER REQUIRED
  - ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
  - INDICATOR TO SHOW BARG
  - MATERIAL SHALL BE PER APPROVED VENDOR LIST. MANUFACTURER LISTED ABOVE IS FOR REFERENCE.
  - ELECTRICAL CONNECTION: M20 1/2" NPT
  - REQUIRED ASSEMBLY AS PER BELOW PICTURE WITH 2-WAY MANIFOLD OR ISOLATION VALVE
  - TRANSMITTERS ARE SUPPLIED WITH THIN FILM TYPE PIEZORESISTIVE SENSORS
  - SENSOR FILLING: PAG SYNTHETIC OIL
  - REFER TO CONTROL NARRATIVE AND SET POINT LIST FOR THE CONTROLLER ACTION
  - HOUSING SHALL BE SELECTED TO SHOW TRANSMITTER LCD AT 90 DEGREE FROM INLET AS SHOWN BELOW.
  - REFER TO P&ID AND VALVE DATA SHEETS FOR 2-WAY MANIFOLD VALVE INFORMATION.

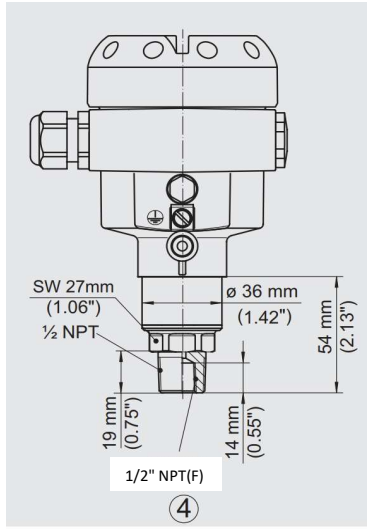
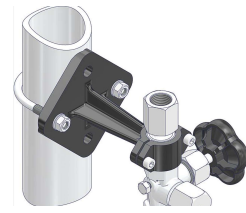


				<b>PRESSURE TRANSMITTER INDICATOR DEVICES</b>				<b>Document No:</b> VD-GPIC-MA-3029-3029-0038			
<b>CLIENT: Gachsaran Polymer Industries Company (GPIC)</b> <b>P.O. NO.: GPIC-PT-MA-PO-000-3029</b> <b>SERVICE: PROPYLENE REFERIGERATION PACKAGE</b>				<b>Document Title:</b> Instrument Data sheet & Catalogs		<b>P.O.I.</b>					
NO.	BY	APP	DATE								
00	N.B	A.M	12.10.25	IFR							
01	N.B	A.M	09.12.25	IFR							
<b>GENERAL</b>											
1	Tag No.	SEE TABLE BELOW				Service: See Table Below					
2	Qty										
3	Function	Record <input type="checkbox"/>	Indicate <input checked="" type="checkbox"/>	Control <input type="checkbox"/>	VIA MCS <input type="checkbox"/>	Blind <input type="checkbox"/>	Trans <input checked="" type="checkbox"/>	Other			
4	Case	Mfr. Std. <input checked="" type="checkbox"/>	Nom. Size		Color :		Other <b>NOTE 2</b>				
5	Mounting	Flush <input type="checkbox"/>	Surface <input type="checkbox"/>		Yoke <input checked="" type="checkbox"/>		Other				
6	Enclosure Class	Gen. Purpose <input type="checkbox"/>	Weather Proof <input type="checkbox"/>		Explosion Proof <input type="checkbox"/>						
7	Power Supply	117V 60 Hz <input type="checkbox"/>	Other ac <input type="checkbox"/>		DC <input checked="" type="checkbox"/>		Volts <b>24 V</b>				
8	Chart	N/A	Strip <input type="checkbox"/>	Roll <input type="checkbox"/>	Fold <input type="checkbox"/>		Circular <input type="checkbox"/>		Time Mark: <input type="checkbox"/>		
9	Chart Drive	N/A	Speed								
10	Scales	Type: <b>LCD / DIGITAL (UNITS per NOTE 15)</b>									
<b>XMTR</b>											
11	Transmitter Output	4-20 mA <input checked="" type="checkbox"/>	<b>NOTE 9</b>		10-50mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>		Other			
<b>CONTROLLER VIA UCP</b>											
12	Control Modes	P = Prop (Gain), I-Integral (Auto Reset), D = Derivative (Rate) Sub: s = slow, f = fast, if <input type="checkbox"/> Df <input type="checkbox"/> P <input type="checkbox"/> PID <input type="checkbox"/> PD <input type="checkbox"/> PI <input type="checkbox"/> Is <input type="checkbox"/> Ds <input type="checkbox"/> Other									
14	Action	On Measurement Increase, Output:				Increases <input type="checkbox"/>		Decreases <input type="checkbox"/>			
15	Auto-Man Switch	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>		Other <input checked="" type="checkbox"/>		<b>NOTE 21</b>				
16	Set Point Adj.	Manual <input type="checkbox"/>	External <input type="checkbox"/>		Remote <input checked="" type="checkbox"/>		UCP		Other <b>NOTE 9</b>		
17	Manual Reg.	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>		Other						
18	Output	4-20 mA <input type="checkbox"/>	<b>NOTE 9</b>		10-50 mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>		Other			
<b>ELEMENT</b>											
19	Service	Gage Press <input checked="" type="checkbox"/>	Vacuum <input type="checkbox"/>		Absolute <input type="checkbox"/>		Compound <input type="checkbox"/>				
20	Element Type	Diaphragm <input type="checkbox"/>	Helix <input type="checkbox"/>	Bourdon <input type="checkbox"/>		Bellows <input type="checkbox"/>		Other <b>NOTE 19</b>			
21	Material (body)	316SS <input checked="" type="checkbox"/>	Ber Copper <input type="checkbox"/>		Other <input type="checkbox"/>						
22	Range	Fixed <input type="checkbox"/>	Adj. Range <input checked="" type="checkbox"/>								
Overrange Protection to: <b>SEE TABLE BELOW</b>											
23	Process Data	Press.: Nor.: <b>SEE TABLE BELOW</b>	MAX.:		Element Range:						
24	Process Conn.	1/4" in NPT <input type="checkbox"/>	1/2" in NPT (F) <input checked="" type="checkbox"/>		Other: <b>1/2" CONDUIT CONNECTION</b>						
<b>VIA UCP</b>											
25	Alarm Switches	Quantity: <b>BY UCP REFER TO SETPOINT LIST</b>				Form		Rating			
26	Function	Press. <input checked="" type="checkbox"/>	Deviation <input type="checkbox"/>		Contacts		On Icr. Meas.				
<b>OPTIONS</b>											
27	Options	Filter Reg. <input type="checkbox"/>	Sup. Gage <input type="checkbox"/>		Output Gage <input type="checkbox"/>		Charts				
		Diaphragm Seal <input type="checkbox"/>	Type <b>N/A</b>		Diaphragm		Bot. Bowl				
		Conn.	Capillary: <b>N/A</b>		Length		Mtl.				
Other: <b>ELECTRICAL GROUND SCREW REQUIRED</b>											
<b>AREA CLASSIFICATION</b> IEC <input checked="" type="checkbox"/> <b>ZONE 2, EExia IIB-T3 IP-65 / NEMA4X</b> Agency Approval: <b>ATEX</b>											
Item	Qty	Tag No.	Pressure PSIG - BarG		Operating Press. PSIG / BarG		Calibration mA PSIG / BarG		Manufacturer/ (Note 16) Model no.	Service	
			Range	Over	Min	Max	4	20			
A	1	PT-61131	-14.7 to 580	1160	275.6	303.1	0.00	580		PROPYLENE &	
		SEPARATOR	-1.01 to 40.0	80.0	19.0	20.6	0.0	40.0		SYNTHETIC OIL	
B	1	PT-61132	-14.7 to 580	1160	275.6	303.1	0.00	580		PROPYLENE &	
		COALESCER	-1.01 to 40.0	80.0	19.0	20.9	0.0	40.0		SYNTHETIC OIL	
C	1	PT-61133	-14.7 to 580	1160	329.0	361.8	0.00	580		PROPYLENE &	
		OIL FILTER	-1.01 to 40.0	80.0	22.7	25.0	0.0	40.0		SYNTHETIC OIL	
D	1	PT-61134	-14.7 to 580	1160	290.1	319.1	0.00	580		PROPYLENE &	
		OIL FILTER	-1.01 to 40.0	80.0	20.0	22.0	0.0	40.0		SYNTHETIC OIL	

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	00	N.B	A.M	12.10.25	IFR	
	01	N.B	A.M	09.12.25	IFR	

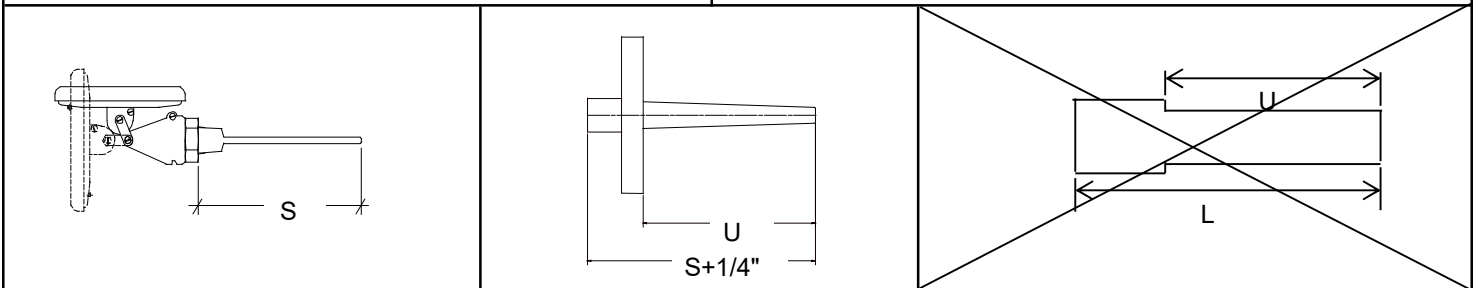
- Notes:
- SYSTEM DESIGN PRESSURE & TEMPERATURE:
 

FV to 362.5 PSIG	25.0 BarG	@	250 °F	121 °C	FOR ITEMS: 1, 2
			-45 °F	-43 °C	
FV to 406 PSIG	28.0 BarG	@	250 °F	121 °C	FOR ITEMS: 3
			-20 °F	-29 °C	
  - TRANSMITTER ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED ALUMINUM
  - REFERENCE ACCURACY:  $\pm 0.1$  % OF FULL SCALE &  $\pm 0.15$  % GUARRANTEED STABILITY OVER FIVE YEARS
  - INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT
  - CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED
  - HARD COPY OF IEC-79, EExia IIB-T5 CERTIFICATE  REQUIRED  NOT REQUIRED PER IEC 60079
  - CUSTOMER SPECIFICATION: N/A, N/A & N/A
  - ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON ALUMINUM DIE-CASTING HOUSING STAMPED USING STAINLESS STEEL TAG PERMANENTLY ATTACHED TO THE DEVICE
  - HART COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION
  - AUSTENSIC 316 SS BOLTS REQUIRED
  - MOUNTING BRACKET FOR 2-IN PIPE BY VENDOR (AGCO)
  - LCD METER WITH POLYURETHANE COVERED ALUMINUM COVER REQUIRED
  - ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
  - INDICATOR TO SHOW BARG
  - MATERIAL SHALL BE PER APPROVED VENDOR LIST. MANUFACTURER LISTED ABOVE IS FOR REFERENCE.
  - ELECTRICAL CONNECTION: M20 1/2" NPT
  - REQUIRED ASSEMBLY AS PER BELOW PICTURE WITH 2-WAY MANIFOLD OR ISOLATION VALVE
  - TRANSMITTERS ARE SUPPLIED WITH THIN FILM TYPE PIEZORESISTIVE SENSORS
  - SENSOR FILLING: PAG SYNTHETIC OIL
  - REFER TO CONTROL NARRATIVE AND SET POINT LIST FOR THE CONTROLLER ACTION
  - HOUSING SHALL BE SELECTED TO SHOW TRANSMITTER LCD AT 90 DEGREE FROM INLET AS SHOWN BELOW.
  - REFER TO P&ID AND VALVE DATA SHEETS FOR 2-WAY MANIFOLD VALVE INFORMATION.



	<b>INDUSTRIAL BIMETAL &amp; GLASS THERMOMETER</b>				Document No: VD-GPIC-MA-3029-0038
					Document Title: Instrument Data sheet & Catalogs
					P.O.I.
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE					NO. 00 BY N.B APP A.M DATE 12.10.25 IFR
					NO. 01 BY N.B APP A.M DATE 09.12.25 IFR

<b>THERMOMETER</b> 1. Stem: Threaded <input checked="" type="checkbox"/> Plain <input type="checkbox"/> Union <input type="checkbox"/> Material: <b>STAINLESS STEEL</b> Type:			<b>WELL</b> 10. None <input type="checkbox"/> Included <input checked="" type="checkbox"/> By others <input type="checkbox"/> 11. Material: 304SS <input type="checkbox"/> 316SS <input checked="" type="checkbox"/> Other: <input type="checkbox"/>		
2. Stem or Union Thread: 1/2" <input checked="" type="checkbox"/> 3/4" <input type="checkbox"/> 3. Stem Diameter: Std <input type="checkbox"/> 1/4" <input checked="" type="checkbox"/> 3/8" in. <input type="checkbox"/> 4. Case Material: Std <input type="checkbox"/> Others <input checked="" type="checkbox"/> <b>316SS</b>			13. Construction: Drilled <input type="checkbox"/> Built-up <input checked="" type="checkbox"/> Other: <b>FLANGED TAPERED SHANK FROM SOLID BAR STOCK</b>		
5. Dial Size: <b>6" in (150 mm)</b> Color: <b>WHITE</b> 6. Scale: <b>SEE BELOW</b> Color: <b>BLACK</b>			14. MFR. & Model <b>ASHCROFT &amp; SEE TABLE BELOW</b>		
7. Form: Adjustable <input checked="" type="checkbox"/> 8. External Calibrator <input type="checkbox"/> Hermetically Sealed Case <input checked="" type="checkbox"/> 9. MFR. & Model No.			15. Connection: <b>SEE TABLE BELOW</b>		



Item	Qty	Tag No.	Range °F (°C)	Oper. Temp. °F (°C)	Stem Depth (S)	Well Conn.	Lag Ext.	Insert (U)	Service	Model Number Sensor/Well
						Inst. Con.				
A	1	TG-61141 RECEIVER	-4 to 212 -20 to 100	117.716 47.62	14 " 355.6	1-1/2"- 300# / 1/2" NPT	-	12 304.8	PROPYLENE (RECEIVER VESSEL)	
B	1	TG-61131 OIL SEPARATOR	-4 to 212 -20 to 100	171.86 77.7	14 " 355.6	1-1/2"- 300# / 1/2"NPT	-	12 304.8	SYNTHETIC OIL (OIL SEPARATOR)	
C	1	TG-61132 OIL SUPPLY	-4 to 212 -20 to 100	122 50	7.67 " 195	1-1/2"- 300# / 1/2"NPT	-	5.7 145	SYNTHETIC OIL (OIL HEADER)	
D										
E										
F										
G										

**Notes:**

1 SYSTEM DESIGN PRESSURE & TEMPERATURE: FV to 362.5 PSIG 25.0 BarG @ 250 °F 121 °C FOR ITEMS: 1  
-45 °F -43 °C

2 WETTED MATERIAL IS 316 STAINLESS STEEL

3 ACCURACY: +/- 1 % FULL SPAN

4 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT

5 CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED

6 CERTIFICATE OF COMPLIANCE  REQUIRED  NOT REQUIRED

7 HERMETIC SEAL REQUIRED

8 CUSTOMER SPECIFICATION: &


9 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT


10 DUAL SCALE IS REQUIRED

11 MATERIAL SHALL BE PER APPROVED VENDOR LIST. DEVIATION FROM "AVL" IS NOT ALLOWED.

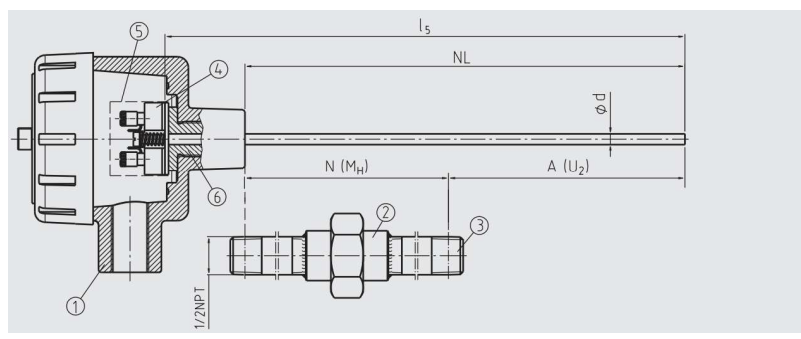
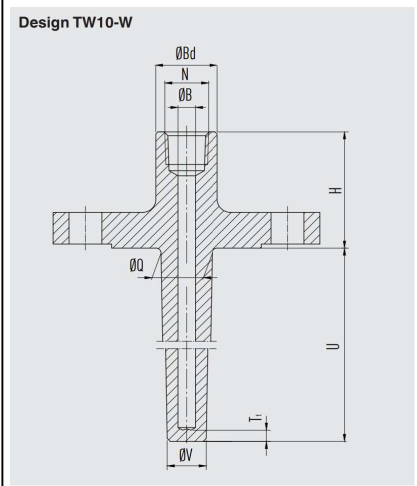
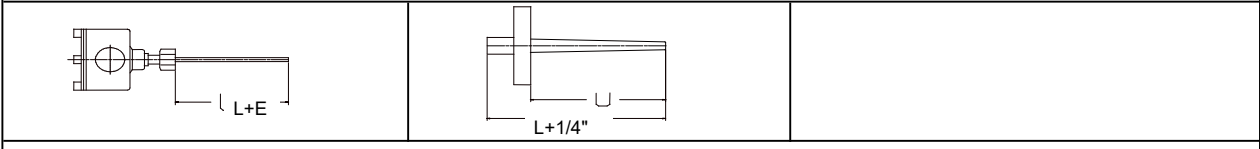
12 THERMOWELL SHALL BE FULL PENETRATION WELD


13 THERMOWELL NATURAL FREQUENCY CALCULATION REQUIRED

				<b>TEMPERATURE TRANSMITTER CONTROL DEVICES</b>				<b>Document No:</b> VD-GPIC-MA-3029-3029-0038		
<b>CLIENT:</b> Gachsaran Polymer Industries Company <b>(GPIC) P.O. NO.:</b> GPIC-PT-MA-PO-000-3029 <b>SERVICE:</b> PROPYLENE REFERIGERATION PACKAGE				<b>Document Title:</b> Instrument Data sheet & Catalogs		<b>P.O.I.</b>				
NO.	BY	APP	DATE							
00	N.B	A.M	12.10.25	IFR						
01	N.B	A.M	09.12.25	IFR						
<b>GENERAL</b>										
1	Tag No.	<b>SEE TABLE BELOW</b>							Service: <b>SEE TABLE BELOW</b>	
2	Function	Record <input type="checkbox"/>	Indicate <input checked="" type="checkbox"/>	Control <input checked="" type="checkbox"/>	Blind <input type="checkbox"/>	Trans <input checked="" type="checkbox"/>	Other <input type="checkbox"/>			
3	Case	MFR. Std. <input type="checkbox"/>	Nom <input type="checkbox"/>	Nom. Size <input type="checkbox"/>	Color: MFR. Std <input type="checkbox"/>	Other <b>NOTE 2</b>				
4	Mounting	Flush <input type="checkbox"/>	Surface <input type="checkbox"/>		Yoke <input checked="" type="checkbox"/>	Other <b>RACK MOUNT</b>				
5	Enclosure Class	Gen. Purpose <input type="checkbox"/>	Weather Proof <input type="checkbox"/>	Explosion Proof <input type="checkbox"/>	Use in intrinsically <input checked="" type="checkbox"/> <b>EEExia</b> Safe System <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>IIB-T5 - ZONE 2, CL1</b>					
6	Power Supply	117V 60 Hz <input type="checkbox"/>	Other ac <input type="checkbox"/>		DC <input checked="" type="checkbox"/>	Volts <b>24 V</b>				
7	Chart <b>N/A</b>	Strip <input type="checkbox"/>	Roll <input type="checkbox"/>	Fold <input type="checkbox"/>	Circular <input type="checkbox"/>	Time marks <input type="checkbox"/>				
8	Chart Drive	Speed _____ Power _____								
9	Scale <b>N/A</b>	Type: _____ Range: _____								
<b>XMTR</b>										
10	Output <b>NOTE 12</b>	4-20 mA <input checked="" type="checkbox"/>	10-50mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>		Other _____				
For Receiver, see spec sheet. <b>WIRED TO UCP VIA JUNCTION BOXES (2 WIRE OUTPUT) NOTE 12</b> P = Prop (Gain, 1-Integral (Auto Reset), D = Derivative (Rate) Sub: s = slow, f = fast, If <input type="checkbox"/> Df <input type="checkbox"/> P <input type="checkbox"/> PI <input type="checkbox"/> PD <input checked="" type="checkbox"/> PID <input type="checkbox"/> Is <input type="checkbox"/> Ds <input type="checkbox"/> Other _____										
<b>CONTROLLER VIA PLC</b>										
11	Control Modes	On Measurement Increase, Output: Increases <input type="checkbox"/> Decreases <input type="checkbox"/>								
13	Auto-Man Switch	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other <input checked="" type="checkbox"/> <b>NOTE 18</b>		Manual <input type="checkbox"/> External <input type="checkbox"/> Remote <input checked="" type="checkbox"/> <b>UCP</b> Other <b>NOTE 12</b>				
14	Set Point Adj.	Manual <input type="checkbox"/> External <input type="checkbox"/> Remote <input checked="" type="checkbox"/> <b>UCP</b> Other <b>NOTE 12</b>								
15	Manual Reg.	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other _____						
16	Output	4-20 mA <input type="checkbox"/>	10-50mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>		Other _____				
<b>ELEMENT</b>										
17	Fill	SAMA Class _____ Compensation _____								
18	Process Data	<b>SEE TABLE BELOW</b>								
19	Range	Fixed <input type="checkbox"/>	Adj. Range <input type="checkbox"/>	Set @ <b>SEE BELOW</b>		Overrange Protection to: _____ Electrical Connection: <b>M20 1/2" NPT</b>				
20	Bulb	Type: <b>RTD-Pt-100 α = 0.00385</b>		Sheath Material: <b>316 S.S W/ MINERAL INSULATION</b>		Size: <b>SEE TABLE BELOW</b> Diameter: <b>1/4"</b> Number of Wires: <b>3 WIRES (DUAL) NOTE 15</b>				
21										
22										
23	Alarm Switches	Quantity: _____		Form _____		Rating _____				
24	Function	Temp. <input checked="" type="checkbox"/>	Deviation <input type="checkbox"/>	Contacts to _____		On Temp. Incr. _____				
25	Options	Filter Reg. <input type="checkbox"/>	Sup Gage <input type="checkbox"/>	Output Gage <input type="checkbox"/>		Charts <input type="checkbox"/>				
26		Other: _____								
<b>AREA CLASS.</b> IEC <input checked="" type="checkbox"/> <b>ZONE 2, EEExia IIB-T3 IP-65 / NEMA4X</b> Agency Approval: <b>ATEX</b>										
<b>TRANSMITTER</b>										
Item	Qty	Tag No.	Temperature °F / °C		Oper. Press. PSIG BARG		Calibration (mA) °F / °C		Manufacturer / Model No.	Service
			Range	Oper.	Min.	Max.	4	20		
A	1	TT-61141	-328 to 1562	45.77	85.5	96.4	-58	212		HYDROCARBON GAS &
		ECONOMIZER	-200 to 850	7.65	5.90	6.6	-50	100		SYNTHETIC OIL
B										
C										
D										
E										

	<b>TEMPERATURE TRANSMITTER CONTROL DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.
	00	N.B	A.M	12.10.25	IFR
	01	N.B	A.M	09.12.25	IFR

Item	Qty	Tag No.	Range °F (°C)	Oper. Temp. °F (°C)	LG (L) = (U+H) IN (mm)	Well Conn. Proc./Inst.	EXT. (N)	Ins (U) IN (mm)	LAG (H)	Well Type	Head Mtg	Model Number Sensor/Well
A	1	TE-61141 INLET	-148 to 842 -100 to 450	45.8 7.65	10 " 254 mm	1-1/2" - 300# RF 1/2" NPT	3.0 " 76.2	4.0 " 101.6	3.0 76.2	TAPERED NOTE 20	YES	
B												
C												
D												
E												



	<b>TEMPERATURE TRANSMITTER CONTROL DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.
	00	N.B	A.M	12.10.25	IFR
	01	N.B	A.M	09.12.25	IFR

**Notes:**

- 1 SYSTEM DESIGN PRESSURE & TEMPERATURE:
 

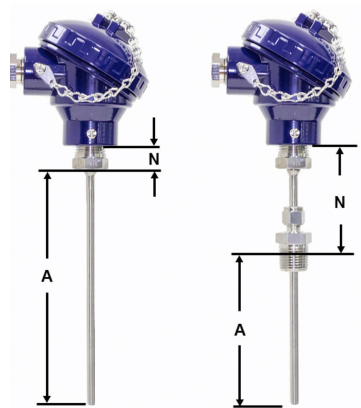
FV to	362.5 PSIG	25.0 BarG @	250 °F	121 °C	FOR ITEMS:	1
			-45 °F	-43 °C		
FV to	406 PSIG	28.0 BarG @	250 °F	121 °C	FOR ITEMS:	
			-20 °F	-29 °C		
- 2 TRANSMITTER AND SENSOR ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED DIE ALUMINUM-HOUSING, THERMOWELL IS 316 STAINLESS STEEL
- 3 REFERENCE ACCURACY: +/- 0.075 % OF FULL SCALE & +/- 0.15 % GUARRANTEED STABILITY OVER FIVE YEARS
- 4 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT
- 5 CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED
- 6 HARD COPY OF IIEC-79, EExia IIB-T5 CERTIFICATE  REQUIRED  NOT REQUIRED PER IEC 60079
- 7 CUSTOMER SPECIFICATION: N/A & N/A
- 8 ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON ALUMINUM DIE-CASTING HOUSING STAMPED USING STAINLESS STEEL TAG PERMANENTLY ATTACHED TO THE DEVICE
- 9 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
- 10 TERMINAL HEAD TO BE ASSEMBLED WITH THERMOWELL USING A UNION
- 11 EXTENSION SECTION OF 3 INCHES ( 76.2 mm) TO INCLUDE NIPPLE AND UNION
- 12 "SMART" ELECTRONIC TRANSMITTERS WITH "HART PROTOCOL" COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION
- 13 EACH TEMPERATURE TRANSMITTER SHALL INCLUDE A MOUNTING BRACKET FOR 2-IN PIPE RACK
- 14 INDICATOR TO SHOW °C
- 15 MATERIAL SHALL BE PER APPROVED VENDOR LIST. MANUFACTURER LISTED ABOVE IS FOR REFERENCE.
- 16 BOTH RTD ELEMENTS ARE WIRED AND TERMINATED IN TERMINAL HEAD OR-TRANSMITTER
- 17 REQUIRED ASSEMBLY AS PER BELOW PICTURES WITH A UNION. ELEMENT LENGTH SHALL BE ADJUSTED FOR THE UNION USE.
- 18 RTD TO BE TERMINATED IN THE TERMINAL HEAD, AND TRANSMITTER TO BE INSTALLED REMOTELY
- 19 REFER TO CONTROL NARRATIVE AND SET POINT LIST FOR THE CONTROLLER ACTION
- 20 THERMOWELL MATERIAL SHALL BE 316SS




THERMOWELL & HEAD




REMOTE TRANSMITTER WITH ELECTRONIC DISPLAY



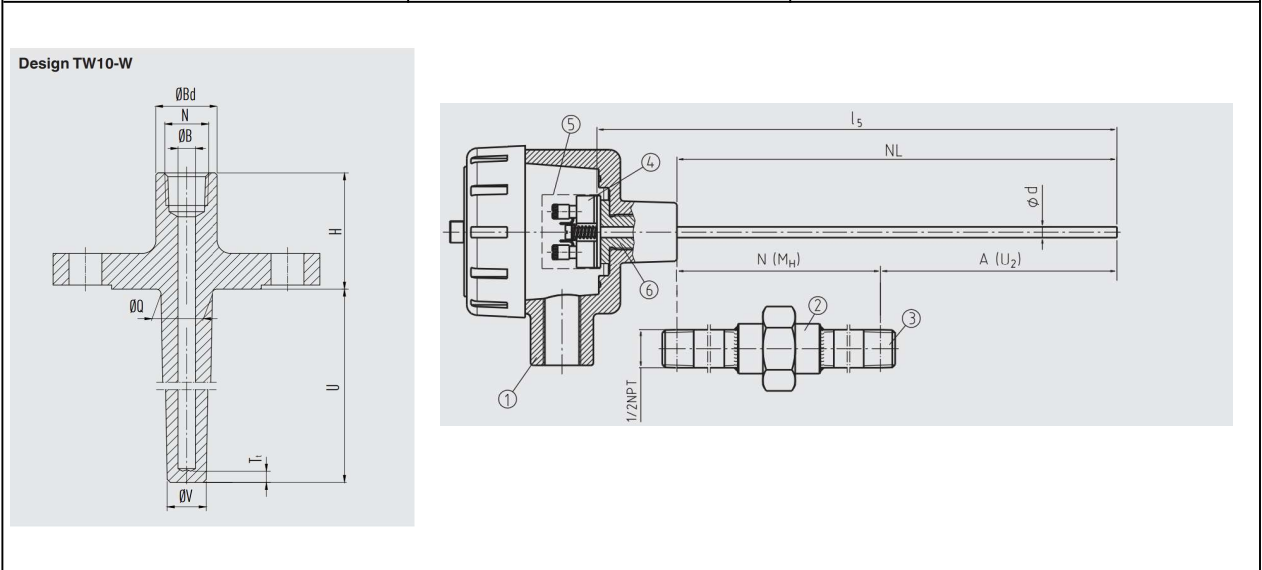
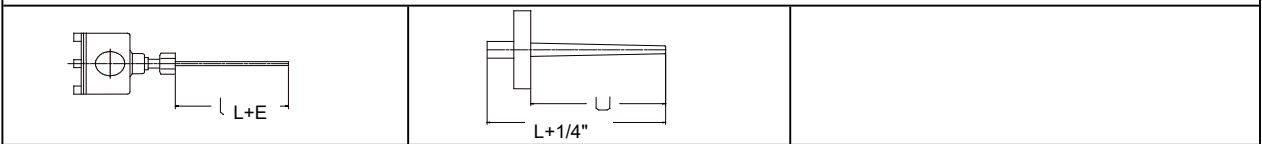
$A = U + H$


				<b>TEMPERATURE TRANSMITTER INDICATOR DEVICES</b>				<b>Document No:</b> VD-GPIC-MA-3029-3029-0038		
								<b>Document Title:</b> Instrument Data sheet & Catalogs		
				<b>NO.</b> <b>BY</b> <b>APP</b> <b>DATE</b>				<b>P.O.I.</b>		
<b>CLIENT:</b> Gachsaran Polymer Industries Company (GPIC) <b>P.O. NO.:</b> GPIC-PT-MA-PO-000-3029 <b>SERVICE:</b> PROPYLENE REFERIGERATION PACKAGE				00	N.B	A.M	12.10.25	IFR		
				01	N.B	A.M	09.12.25	IFR		
<b>GENERAL</b>				<b>SEE TABLE BELOW</b>				Service: <b>SEE TABLE BELOW</b>		
1 Tag No.										
2 Function				Record <input type="checkbox"/> Indicate <input checked="" type="checkbox"/> Control <input type="checkbox"/> Blind <input type="checkbox"/> Trans <input checked="" type="checkbox"/> Other <input type="checkbox"/>						
3 Case				MFR. Std. <input type="checkbox"/> Nom <input type="checkbox"/> Surface <input type="checkbox"/> Yoke <input checked="" type="checkbox"/> Other <b>RACK MOUNT</b>				Color: MFR. Std <input type="checkbox"/> Other <b>NOTE 2</b>		
4 Mounting				Flush <input type="checkbox"/> Surface <input type="checkbox"/> Yoke <input checked="" type="checkbox"/> Other <b>RACK MOUNT</b>						
5 Enclosure Class				Gen. Purpose <input type="checkbox"/> Weather Proof <input type="checkbox"/> Explosion Proof <input type="checkbox"/>				Use in intrinsically <input checked="" type="checkbox"/> <b>EEExia</b> Safe System <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>IIB-T5 - ZONE 2, CL1</b>		
6 Power Supply				117V 60 Hz <input type="checkbox"/> Other ac <input type="checkbox"/> DC <input checked="" type="checkbox"/> Volts <b>24 V</b>						
7 Chart <b>N/A</b>				Strip <input type="checkbox"/> Roll <input type="checkbox"/> Fold <input type="checkbox"/> Circular <input type="checkbox"/> Time marks <input type="checkbox"/>						
8 Chart Drive				Speed _____ Power _____						
9 Scale <b>N/A</b>				Type: _____ Range: _____						
<b>XMTR</b>				10 Output <b>NOTE 12</b> 4-20 mA <input checked="" type="checkbox"/> 10-50mA <input type="checkbox"/> 21-103 kPa (3-15 psig) <input type="checkbox"/> Other _____						
				For Receiver, see spec sheet. <b>WIRED TO UCP VIA JUNCTION BOXES (2 WIRE OUTPUT) NOTE 12</b>						
<b>CONTROLLER VIA N/A</b>				11 Control Modes				P = Prop (Gain), I = Integral (Auto Reset), D = Derivative (Rate)		
				Sub: s = slow, f = fast, If <input type="checkbox"/> Df <input type="checkbox"/> P <input type="checkbox"/> PI <input type="checkbox"/> PD <input type="checkbox"/> PID <input type="checkbox"/> Is <input type="checkbox"/> Ds <input type="checkbox"/>				Other _____		
				12 Action				On Measurement Increase, Output: Increases <input type="checkbox"/> Decreases <input type="checkbox"/>		
				13 Auto-Man Switch				None <input type="checkbox"/> MFR Std <input type="checkbox"/> Other _____		
				14 Set Point Adj.				Manual <input type="checkbox"/> External <input type="checkbox"/> Remote <input checked="" type="checkbox"/> <b>UCP</b> Other <b>NOTE 12</b>		
				15 Manual Reg.				None <input type="checkbox"/> MFR Std <input type="checkbox"/> Other _____		
				16 Output				4-20 mA <input type="checkbox"/> 10-50mA <input type="checkbox"/> 21-103 kPa (3-15 psig) <input type="checkbox"/> Other _____		
<b>ELEMENT</b>				17 Fill				SAMA Class _____ Compensation _____		
				18 Process Data				<b>SEE TABLE BELOW</b> Compensation _____		
				19 Range				Fixed <input type="checkbox"/> Adj. Range <input type="checkbox"/> Set @ <b>SEE BELOW</b>		
				20 Bulb				Overrange Protection to: <b>Electrical Connection: M20 1/2" NPT</b>		
								Type: <b>RTD-Pt-100 α = 0.00385</b> Sheath Material: <b>316 S.S W/ MINERAL INSULATION</b>		
								Size: <b>SEE TABLE BELOW</b> Diameter: <b>1/4"</b> Number of Wires: <b>3 WIRES (DUAL) NOTE 15</b>		
				21 _____						
				22 _____						
				23 Alarm Switches				Quantity: _____ Form _____ Rating _____		
<b>VIA UCP</b>				24 Function				Temp. <input checked="" type="checkbox"/> Deviation <input type="checkbox"/> Contacts to _____ On Temp. Incr. _____		
				25 Options				Filter Reg. _____ Sup Gage <input type="checkbox"/> Output Gage <input type="checkbox"/> Charts <input type="checkbox"/>		
				26 Other: _____						
<b>AREA CLASS.</b>				27 IEC <input checked="" type="checkbox"/> <b>ZONE 2, EEExia IIB-T3 IP-65 / NEMA4X</b> Agency Approval: <b>ATEX</b>						
<b>TRANSMITTER</b>										
Item	Qty	Tag No.	Temperature °F / °C		Oper. Press. PSIG BARG		Calibration (mA) °F / °C		Manufacturer / Model No.	Service
			Range	Oper.	Min.	Max.	4	20		
A	1	TT-61121	-328 to 1562	-12.44	22.5	24.8	-58	212		HYDROCARBON GAS &
		SUCTION	-200 to 850	-24.69	1.55	1.69	-50	100		SYNTHETIC OIL
B										
C										
D										
E										

	<b>TEMPERATURE TRANSMITTER INDICATOR DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.
	00	N.B	A.M	12.10.25	IFR
	01	N.B	A.M	09.12.25	IFR

**SENSOR WITH THERMOWELL**

Item	Qty	Tag No.	Range °F (°C)	Oper. Temp. °F (°C)	LG (L) = (U+H) IN (mm)	Well Conn. Proc./Inst.	EXT. (N)	Ins (U) IN (mm)	LAG (H)	Well Type	Head Mtg	Model Number Sensor/Well
A	1	TE-61121 INLET	-148 to 842 -100 to 450	-12.4 -24.69	18 " 457 mm	1-1/2"- 300# RF 1/2" NPT	3.0 " 76.2	12.0 " 304.8	3.0 76.2	TAPERED NOTE 20	YES	
B												
C												
D												
E												



	<b>TEMPERATURE TRANSMITTER INDICATOR DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
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	00	N.B	A.M	12.10.25	IFR
	01	N.B	A.M	09.12.25	IFR

**Notes:**

- 1 SYSTEM DESIGN PRESSURE & TEMPERATURE:
 

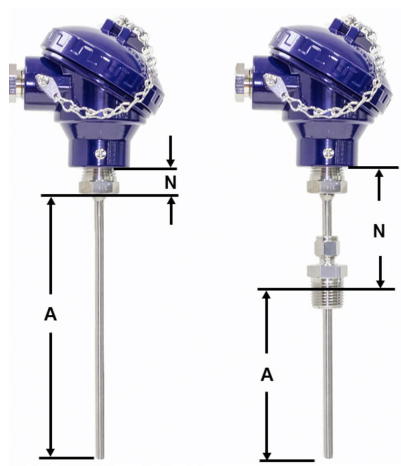
FV to	362.5 PSIG	25.0 BarG	@	250 °F	121 °C	FOR ITEMS:	1
				-45 °F	-43 °C		
FV to	406 PSIG	28.0 BarG	@	250 °F	121 °C	FOR ITEMS:	
				-20 °F	-29 °C		
- 2 TRANSMITTER AND SENSOR ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED DIE ALUMINUM-HOUSING, THERMOWELL IS 316 STAINLESS STEEL
- 3 REFERENCE ACCURACY: +/- 0.075 % OF FULL SCALE & +/- 0.15 % GUARRANTEED STABILITY OVER FIVE YEARS
- 4 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT
- 5 CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED
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- 8 ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON ALUMINUM DIE-CASTING HOUSING STAMPED USING STAINLESS STEEL TAG PERMANENTLY ATTACHED TO THE DEVICE
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- 10 TERMINAL HEAD TO BE ASSEMBLED WITH THERMOWELL USING A UNION
- 11 EXTENSION SECTION OF 3 INCHES ( 76.2 mm) TO INCLUDE NIPPLE AND UNION
- 12 "SMART" ELECTRONIC TRANSMITTERS WITH "HART PROTOCOL" COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION
- 13 EACH TEMPERATURE TRANSMITTER SHALL INCLUDE A MOUNTING BRACKET FOR 2-IN PIPE RACK
- 14 INDICATOR TO SHOW °C
- 15 MATERIAL SHALL BE PER APPROVED VENDOR LIST. MANUFACTURER LISTED ABOVE IS FOR REFERENCE.
- 16 BOTH RTD ELEMENTS ARE WIRED AND TERMINATED IN TERMINAL HEAD OR-TRANSMITTER
- 17 REQUIRED ASSEMBLY AS PER BELOW PICTURES WITH A UNION. ELEMENT LENGTH SHALL BE ADJUSTED FOR THE UNION USE.
- 18 RTD TO BE TERMINATED IN THE TERMINAL HEAD, AND TRANSMITTER TO BE INSTALLED REMOTELY
- 19 REFER TO CONTROL NARRATIVE AND SET POINT LIST FOR THE CONTROLLER ACTION
- 19 THERMOWELL NATURAL FREQUENCE CALCULATION REQUIRED
- 20 THERMOWELL MATERIAL SHALL BE 316SS




THERMOWELL & HEAD




REMOTE TRANSMITTER WITH ELECTRONIC DISPLAY



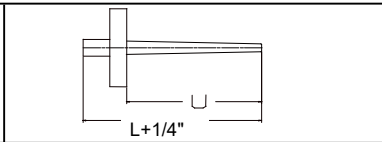
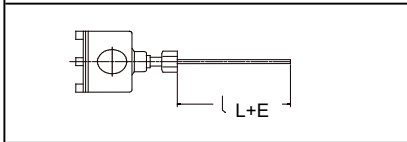
$A = U + H$

				<b>TEMPERATURE TRANSMITTER INDICATOR DEVICES</b>				<b>Document No:</b> VD-GPIC-MA-3029-3029-0038		
								<b>Document Title:</b> Instrument Data sheet & Catalogs		
				<b>NO. BY APP DATE</b>				<b>P.O.I.</b>		
<b>CLIENT:</b> Gachsaran Polymer Industries Company (GPIC) <b>P.O. NO.:</b> GPIC-PT-MA-PO-000-3029 <b>SERVICE:</b> PROPYLENE REFERIGERATION PACKAGE				00	N.B	A.M	12.10.25	IFR		
				01	N.B	A.M	09.12.25	IFR		
<b>GENERAL</b>				<b>SEE TABLE BELOW</b>				Service: <b>SEE TABLE BELOW</b>		
1 Tag No.										
2 Function				Record <input type="checkbox"/>	Indicate <input checked="" type="checkbox"/>	Control <input type="checkbox"/>	Blind <input type="checkbox"/>	Trans <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	
3 Case				MFR. Std. <input type="checkbox"/>	Nom <input type="checkbox"/>	Nom. Size <input type="checkbox"/>	Color: MFR. Std <input type="checkbox"/>	Other <b>NOTE 2</b>		
4 Mounting				Flush <input type="checkbox"/>	Surface <input type="checkbox"/>		Yoke <input checked="" type="checkbox"/>	Other <b>RACK MOUNT</b>		
5 Enclosure Class				Gen. Purpose <input type="checkbox"/>	Weather Proof <input type="checkbox"/>	Explosion Proof <input type="checkbox"/>	Use in intrinsically <input checked="" type="checkbox"/> <b>EEExia</b> Safe System <input type="checkbox"/> Other <input checked="" type="checkbox"/> <b>IIB-T5 - ZONE 2, CL1</b>			
6 Power Supply				117V 60 Hz <input type="checkbox"/>	Other ac <input type="checkbox"/>	DC <input checked="" type="checkbox"/>	Volts <b>24 V</b>			
7 Chart <b>N/A</b>				Strip <input type="checkbox"/>	Roll <input type="checkbox"/>	Fold <input type="checkbox"/>	Circular <input type="checkbox"/>	Time marks <input type="checkbox"/>		
8 Chart Drive				Speed _____ Power _____						
9 Scale <b>N/A</b>				Type: _____ Range: _____						
<b>XMTR</b>				10 Output <b>NOTE 12</b>						
				4-20 mA <input checked="" type="checkbox"/> 10-50mA <input type="checkbox"/> 21-103 kPa (3-15 psig) <input type="checkbox"/> Other _____						
				For Receiver, see spec sheet. <b>WIRED TO UCP VIA JUNCTION BOXES (2 WIRE OUTPUT) NOTE 12</b>						
<b>CONTROLLER VIA N/A</b>				11 Control Modes						
				P = Prop (Gain), 1-Integral (Auto Reset), D = Derivative (Rate)						
				Sub: s = slow, f = fast, If <input type="checkbox"/> Df <input type="checkbox"/> P <input type="checkbox"/> PI <input type="checkbox"/> PD <input type="checkbox"/> PID <input type="checkbox"/> Is <input type="checkbox"/> Ds <input type="checkbox"/>						
				Other _____						
				12 Action On Measurement Increase, Output: Increases <input type="checkbox"/> Decreases <input type="checkbox"/>						
				13 Auto-Man Switch None <input type="checkbox"/> MFR Std <input type="checkbox"/> Other _____						
				14 Set Point Adj. Manual <input type="checkbox"/> External <input type="checkbox"/> Remote <input checked="" type="checkbox"/> <b>UCP</b> Other <b>NOTE 12</b>						
				15 Manual Reg. None <input type="checkbox"/> MFR Std <input type="checkbox"/> Other _____						
				16 Output 4-20 mA <input type="checkbox"/> 10-50mA <input type="checkbox"/> 21-103 kPa (3-15 psig) <input type="checkbox"/> Other _____						
<b>ELEMENT</b>				17 Fill SAMA Class _____ Compensation _____						
				18 Process Data <b>SEE TABLE BELOW</b> Compensation _____						
				19 Range Fixed <input type="checkbox"/> Adj. Range <input type="checkbox"/> Set @ <b>SEE BELOW</b>						
				Overrange Protection to: _____ Electrical Connection: <b>M20 1/2" NPT</b>						
				20 Bulb Type: <b>RTD-Pt-100 α = 0.00385</b> Sheath Material: <b>316 S.S W/ MINERAL INSULATION</b>						
				Size: <b>SEE TABLE BELOW</b> Diameter: <b>1/4"</b> Number of Wires: <b>3 WIRES (DUAL) NOTE 15</b>						
				21 _____						
				22 _____						
				23 Alarm Switches Quantity: _____ Form _____ Rating _____						
<b>VIA UCP</b>				24 Function Temp. <input checked="" type="checkbox"/> Deviation <input type="checkbox"/> Contacts to _____ On Temp. Incr. _____						
				25 Options Filter Reg. _____ Sup Gage <input type="checkbox"/> Output Gage <input type="checkbox"/> Charts <input type="checkbox"/>						
				26 Other: _____						
<b>AREA CLASS.</b>				27 IEC <input checked="" type="checkbox"/> <b>ZONE 2, EEExia IIB-T3 IP-65 / NEMA4X</b> Agency Approval: <b>ATEX</b>						
<b>TRANSMITTER</b>										
Item	Qty	Tag No.	Temperature °F / °C		Oper. Press. PSIG BARG		Calibration (mA) °F / °C		Manufacturer / Model No.	Service
			Range	Oper.	Min.	Max.	4	20		
A	1	TT-61111	-328 to 1562	-12.44	22.5	24.8	-58	212		HYDROCARBON GAS &
		SUCTION	-200 to 850	-24.69	1.55	1.69	-50	100		SYNTHETIC OIL
B		TT-61132	-328 to 1562	120	304.6	335.0	-58	212		HYDROCARBON GAS &
		OIL SUPPLY	-200 to 850	48.89	21.0	22.8	-50	100		SYNTHETIC OIL
C										
D		TT-61131	-328 to 1562	171.86	275.6	310.6	-58	212		HYDROCARBON GAS &
		OIL SEPARATOR	-200 to 850	77.70	19.0	21.1	-50	100		SYNTHETIC OIL
E										

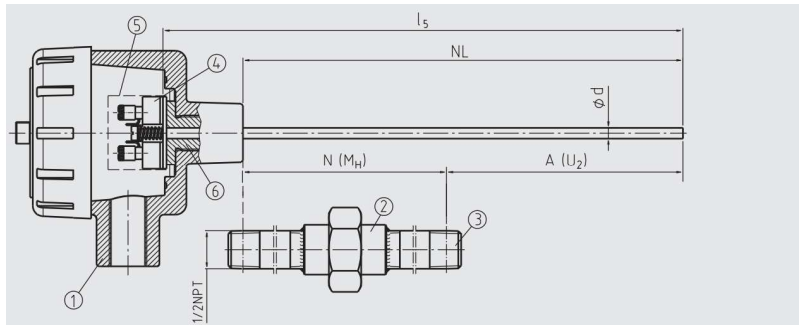
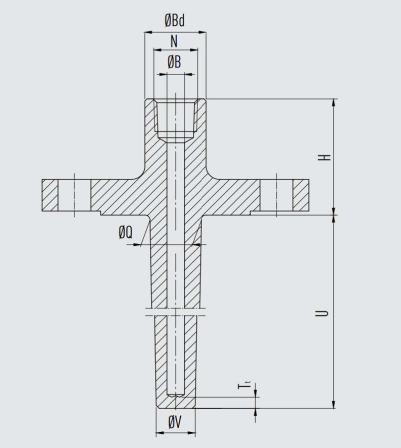
	<b>TEMPERATURE TRANSMITTER INDICATOR DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.
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**SENSOR WITH THERMOWELL**

Item	Qty	Tag No.	Range °F (°C)	Oper. Temp. °F (°C)	LG (L) = (U+H) IN (mm)	Well Conn. Proc./Inst.	EXT. (N)	Ins (U) IN (mm)	LAG (H)	Well Type	Head Mtg	Model Number Sensor/Well
A	1	TE-61111 INLET	-148 to 842 -100 to 450	-12.4 -24.69	18 " 457 mm	1-1/2"- 300# RF 1/2" NPT	3.0 " 76.2	12.0 " 304.8	3.0	TAPERED NOTE 20	YES	
B		TE-61132 OIL SUPPLY	-148 to 842 -100 to 450	120.0 50	12 " 305 mm	1-1/2"- 300# RF 1/2" NPT	3.0 " 76.2	6.0 " 152.4	3.0	TAPERED NOTE 20	YES	
C												
D		TE-61131 OIL SEPARATOR	-148 to 842 -100 to 450	171.9 77.70	24 " 610 mm	1-1/2"- 300# RF 1/2" NPT	3.0 " 76.2	18.0 " 457.2	3.0	TAPERED NOTE 20	YES	
E												



Design TW10-W



	<b>TEMPERATURE TRANSMITTER INDICATOR DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.
	00	N.B	A.M	12.10.25	IFR
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**Notes:**

- 1 SYSTEM DESIGN PRESSURE & TEMPERATURE:
 

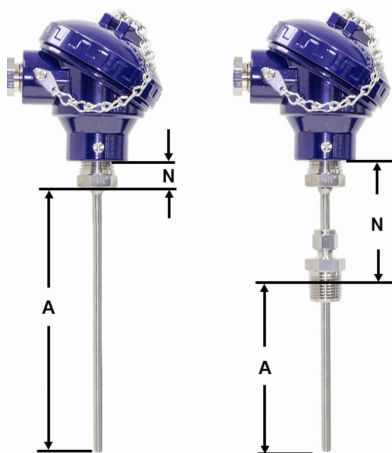
FV to 362.5 PSIG	25.0 BarG @	250 °F	121 °C	FOR ITEMS: 1, 3
		-45 °F	-43 °C	
FV to 406 PSIG	28.0 BarG @	250 °F	121 °C	FOR ITEMS: 2
		-20 °F	-29 °C	
- 2 TRANSMITTER AND SENSOR ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED DIE ALUMINUM-HOUSING, THERMOWELL IS 316 STAINLESS STEEL
- 3 REFERENCE ACCURACY: +/- 0.075 % OF FULL SCALE & +/- 0.15 % GUARRANTEED STABILITY OVER FIVE YEARS
- 4 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT
- 5 CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED
- 6 HARD COPY OF IIEC-79, EExia IIB-T5 CERTIFICATE  REQUIRED  NOT REQUIRED PER IEC 60079
- 7 CUSTOMER SPECIFICATION: N/A & N/A
- 8 ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON ALUMINUM DIE-CASTING HOUSING STAMPED USING STAINLESS STEEL TAG PERMANENTLY ATTACHED TO THE DEVICE
- 9 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
- 10 TERMINAL HEAD TO BE ASSEMBLED WITH THERMOWELL USING A UNION
- 11 EXTENSION SECTION OF 3 INCHES ( 76.2 mm) TO INCLUDE NIPPLE AND UNION
- 12 "SMART" ELECTRONIC TRANSMITTERS WITH "HART PROTOCOL" COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION
- 13 EACH TEMPERATURE TRANSMITTER SHALL INCLUDE A MOUNTING BRACKET FOR 2-IN PIPE RACK
- 14 INDICATOR TO SHOW °C
- 15 MATERIAL SHALL BE PER APPROVED VENDOR LIST. MANUFACTURER LISTED ABOVE IS FOR REFERENCE.
- 15 BOTH RTD ELEMENTS ARE WIRED AND TERMINATED IN TERMINAL HEAD OR-TRANSMITTER
- 16 REQUIRED ASSEMBLY AS PER BELOW PICTURES WITH A UNION. ELEMENT LENGTH SHALL BE ADJUSTED FOR THE UNION USE.
- 17 RTD TO BE TERMINATED IN THE TERMINAL HEAD, AND TRANSMITTER TO BE INSTALLED REMOTELY
- 18 REFER TO CONTROL NARRATIVE AND SET POINT LIST FOR THE CONTROLLER ACTION
- 19 THERMOWELL NATURAL FREQUENCE CALCULATION REQUIRED
- 20 THERMOWELL MATERIAL SHALL BE 316SS




THERMOWELL & HEAD



REMOTE TRANSMITTER WITH ELECTRONIC DISPLAY



$A = U + H$

	<b>GAUGES GLASSES &amp; COCKS</b>				Document No:	VD-GPIC-MA-3029-3029-0038
					Document Title:	Instrument Data sheet & Catalogs
<b>CLIENT:</b> Gachsaran Polymer Industries Company (GPIC) <b>P.O. NO.:</b> GPIC-PT-MA-PO-000-3029 <b>SERVICE:</b> PROPYLENE REFERIGERATION PACKAGE	<b>NO.</b>	<b>BY</b>	<b>APP</b>	<b>DATE</b>	<b>P.O.I.</b>	
	00	N.B	A.M	12.10.25	IFR	
	01	N.B	A.M	09.12.25	IFR	

1. Gage Column  Assembled w/ Nipples  Cocks  Unassembled

**GAGE CLASSES**

2. Type: Reflex  Transparent  Tubular   
 Large Chamber  Weld Pad

3. Conn. Size & Type  2"-300# ANSI RF FLG  
 Top & Bottom  Side  Back   
 Vent  Drain

4. Material: Body / Cover **LT C.S. (SA350-LF2) OR SS**  
 Glass **Borosilicate (TEMPERED)**

5. Min. Rating **SEE NOTES BELOW**

6. Options. Illuminator  Mica Shield   
 Internal Tube  External Jkt.   
 Non Frost  External Length   
 Calb. Scale  Other

7. Manufacturer & Model:

**GAGE COCKS**

8. Type: Offset  Straight   
 9. Conn. Vessel  2"-300# Gage  1/2" Vent / Drain  1/2" W/VALVES

10. Mat: Body: **S.S. A182** Trim: **316 SS**

11. Min. Rating: **507.5 PSIG @ 300 °F**

12. Construction: **INTEGRAL BALL-CHECK / UNION**

13. Type of Conn.: Vessel: **NPT (M) UNION CONNECTOR**  
 Gage: **NPT (F) UNION CONNECTOR**  
 Vent / Drain: **NPT (F)**  
 Other: **DIRECT MOUNT**


14. Bonnet: **PACKING NUT / TEFLON PACKING**

15. Options: Ball Checks  Renewal Seats   
 Other: **RENEWAL SEATS**

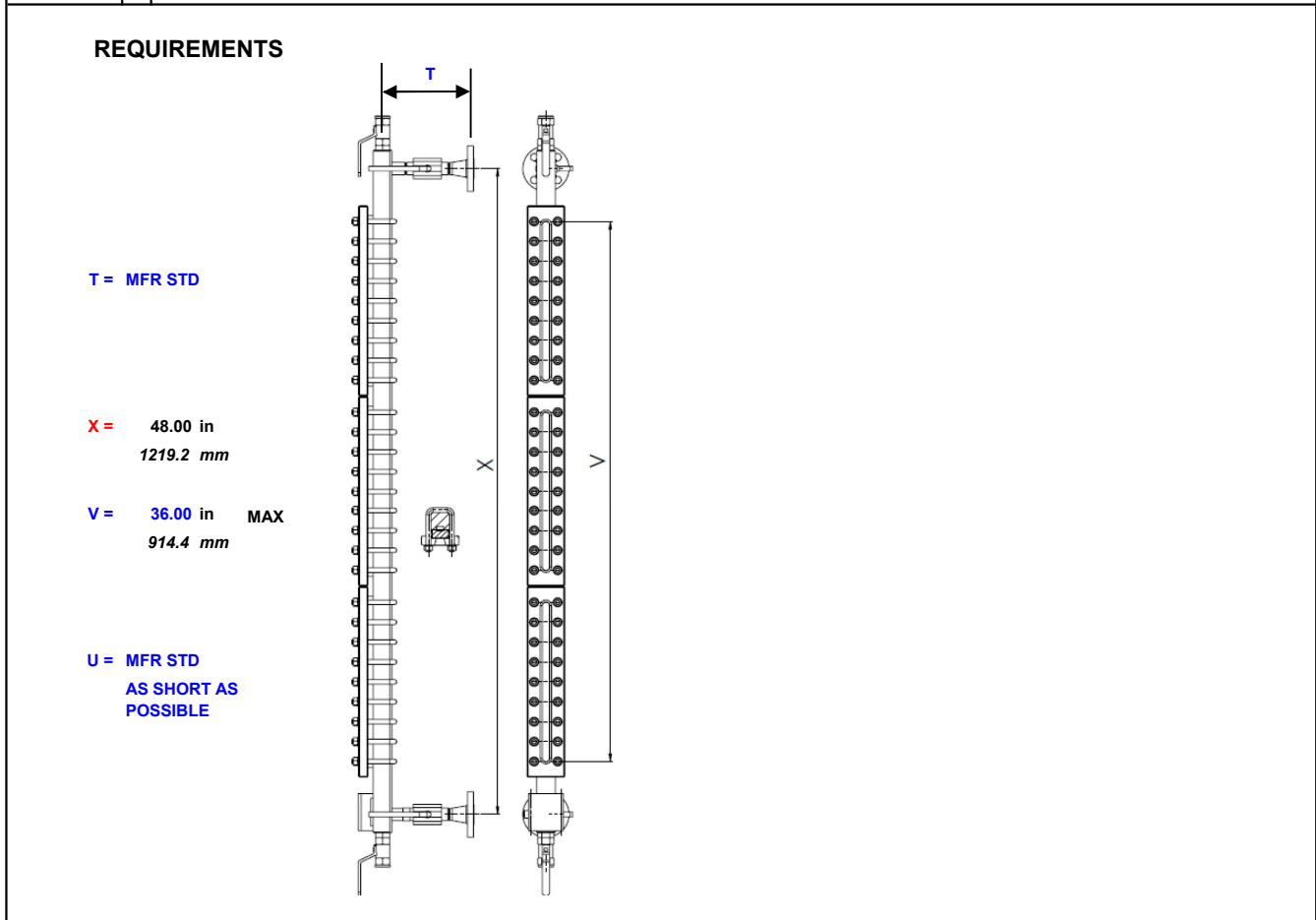
16. Manufacturer & Model: **OTHERS**

17. Bolting Material: **A193-L7 / A194-7**

Item	Qty.	Tag No.	Visible Glass "V"	CONNECTION CENTER TO CENTER "X"	Model No.	Operating		Service
						Pressure PSIG (BarG)	Temp. °F (°C)	
A	1	LG-61141 RECEIVER HEADER	36.0 " 914 mm	36.0 " 914 mm	L21SR/1219.2/A2"300ibR F/N/Ex	268.4 18.5	117.3 47.4	PROPYLENE REFRIGERANT & SYNTHETIC OIL
B								
B								

	<b>GAUGES GLASSES &amp; COCKS</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.
	00	N.B	A.M	12.10.25	IFR
	01	N.B	A.M	09.12.25	IFR


NOTES:	1	SYSTEM DESIGN PRESSURE & TEMPERATURE: FV to 362.5 PSIG 25.0 BarG @ 250 °F 121 °C -45 °F -43 °C
	2	WETTED MATERIAL IS 316L STAINLESS STEEL
	3	MATERIAL TEST REPORT TO INCLUDE CHARPY IMPACT TEST PER ASME & ASTM CODES
	4	INSTRUMENT SHALL BE SUITABLE FOR ON-SHORE SERVICE
	5	CALIBRATION CERTIFICATE <input type="checkbox"/> REQUIRED <input checked="" type="checkbox"/> NOT REQUIRED
	6	CERTIFICATE OF COMPLIANCE <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
	7	316SS NAMEPLATE <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED
	8	CUSTOMER SPECIFICATION: N/A & N/A
	9	WHERE APPLICABLE, PMI REQUIRED PER SPECIFICATION.
	10	PAINTING PER CLIENT SPECIFICATION
	11	C TO C DISTA 48 inches 1,219.2 mm
	12	VENT AND DRAIN CONNECTION SHALL BE SUPPLIED WITH BALL VALVES



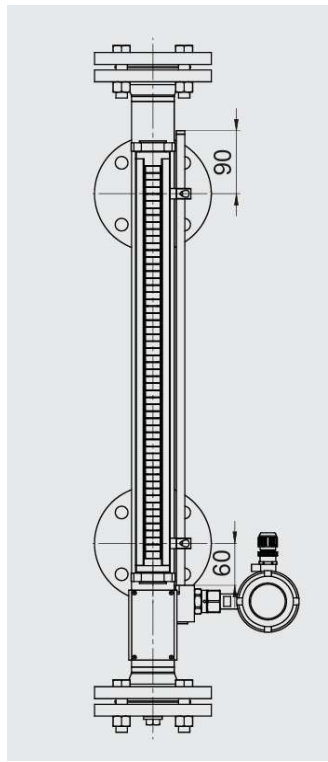
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFRIGERATION PACKAGE	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>NO.</th> <th>BY</th> <th>APP</th> <th>DATE</th> <th>P.O.I.</th> </tr> <tr> <td>00</td> <td>N.B</td> <td>A.M</td> <td>12.10.25</td> <td>IFR</td> </tr> <tr> <td>01</td> <td>N.B</td> <td>A.M</td> <td>09.12.25</td> <td>IFR</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	BY	APP	DATE	P.O.I.	00	N.B	A.M	12.10.25	IFR	01	N.B	A.M	09.12.25	IFR										
NO.	BY	APP	DATE	P.O.I.																						
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<b>GENERAL</b>	1	Tag No.	SEE TABLE BELOW		Service: SEE TABLE BELOW	
	2	Qty				
	3	Function	Record <input type="checkbox"/>	Indicate <input checked="" type="checkbox"/>	Control <input checked="" type="checkbox"/>	VIA MCS Blind <input type="checkbox"/> Trans <input checked="" type="checkbox"/> Other
	4	Case	Mfr. Std. <input checked="" type="checkbox"/>	Nom. Size	Color :	<input type="checkbox"/> Other <b>NOTE 2</b>
	5	Mounting	Flush <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Yoke <input type="checkbox"/>	Other
	6	Enclosure Class	Gen. Purpose <input type="checkbox"/>	Weather Proof <input type="checkbox"/>	Explosion Proof <input type="checkbox"/>	
			Use in intrinsically <input checked="" type="checkbox"/> <b>EExia</b>	Safe System <input type="checkbox"/>	Other <input checked="" type="checkbox"/>	<b>IIB-T5 - ZONE 2, CL1</b>
	7	Power Supply	117V 60 Hz <input checked="" type="checkbox"/>	Other ac <input type="checkbox"/>	DC <input checked="" type="checkbox"/>	Volts <b>24 V</b>
	8	Chart	N/A	Strip <input type="checkbox"/> Roll <input type="checkbox"/> Fold <input type="checkbox"/>	Circular <input type="checkbox"/>	Time Marks <input type="checkbox"/>
	9	Chart Drive	N/A	Range	Number	Power
10	Scales		Type: <b>LCD / DIGITAL</b>			
			Range	SEE TABLE BELOW		
<b>XMTR</b>	11	Transmitter Output	4-20 mA <input checked="" type="checkbox"/>	10-50mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>	Other
			For Receiver, see spec sheet. <b>WIRED TO UCP VIA JUNCTION BOXES (2 WIRE OUTPUT)</b> <b>NOTE 18</b>			
<b>CONTROLLER VIA UCP</b>	12	Control Modes	P = Prop (Gain), 1-Integral (Auto Reset), D = Derivative (Rate)			
			Sub: s = slow, f = fast,	lf <input type="checkbox"/>	Df <input type="checkbox"/>	P <input type="checkbox"/> PI <input type="checkbox"/> PD <input type="checkbox"/> PID <input checked="" type="checkbox"/> Is <input type="checkbox"/> Ds <input type="checkbox"/>
			Other			
	14	Action	On Measurement Increase, Output:		Increases <input type="checkbox"/>	Decreases <input type="checkbox"/>
	15	Auto-Man Switch	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other	
	16	Set Point Adj.	Manual <input type="checkbox"/>	External <input type="checkbox"/>	Remote <input type="checkbox"/>	Other
	17	Manual Reg.	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other	
	18	Output	<b>NOTE 18</b>	4-20 mA <input checked="" type="checkbox"/>	10-50 mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>
<b>ELEMENT</b>	19	Service	Gage Press <input type="checkbox"/>	Vacuum <input type="checkbox"/>	Absolute <input type="checkbox"/>	Differential <input checked="" type="checkbox"/>
	20	Element Type	Diaphragm <input checked="" type="checkbox"/>	Helix <input type="checkbox"/>	Bourdon <input type="checkbox"/>	Bellows <input type="checkbox"/> Other
	21	Material (body)	316SS <input checked="" type="checkbox"/>	Ber Copper <input type="checkbox"/>	Other <input type="checkbox"/>	
	22	Range	Fixed <input type="checkbox"/>	Adj. Range <input checked="" type="checkbox"/>		
			Overrange Protection to:		SEE TABLE BELOW	Electrical Connection: <b>M20 1/2"-NPT</b>
	23	Process Data	Press.: Nor.:	SEE TABLE BELOW	MAX.:	Element Range:
	24	Process Conn.	1/4" in NPT <input type="checkbox"/>	1/2" in NPT (F) <input checked="" type="checkbox"/>	Other: <b>2"-300# ANSI RF FLG</b>	
		Location: Bottom: <input checked="" type="checkbox"/>		Back <input type="checkbox"/>	Other	
	25	Alarm Switches	Quantity:	Form	Rating	
	26	Function	Press. <input checked="" type="checkbox"/>	Deviation <input type="checkbox"/>	Contacts	On Icr. Meas.
<b>OPTIONS</b>	27	Options	Filter Reg. <input type="checkbox"/>	Sup. Gage <input type="checkbox"/>	Output Gage <input type="checkbox"/>	Charts
			Diaphragm Seal <input type="checkbox"/>	Type <b>N/A</b>	Diaphragm	Bot. Bowl
			Conn. Capillary: <b>N/A</b>		Length	Mtl.
			Other			
<b>AREA CLASSIFICATION</b>			IEC <input checked="" type="checkbox"/> <b>ZONE 2, EExia IIB-T3</b>	<b>IP-65 / NEMA4X</b>	Agency Approval: <b>ATEX</b>	

Item	Qty	Tag No.	Pressure in (mm)		Operating Pressure PSIG / BarG		Calibration mA in (mm) NOTE 23		Manufacturer/  Model no.	Service
			Range	Over	Min	Max	4	20		
<b>A</b>	1	LT-61151 <b>CHILLER</b>	0.00 to 120.9 0 to 3,071	2000 137.9	22.5 1.55	25.9 1.79	0 0.00 0%	111.4 2,830.5 100%	<b>CHAMBER:</b> <b>BNA-</b>  <b>TRANSMITTER:</b> <b>BLM-</b>	<b>PROPYLENE REFRIGERANT</b>  <b>SYNTHETIC OIL</b>
<b>B</b>										
<b>C</b>										

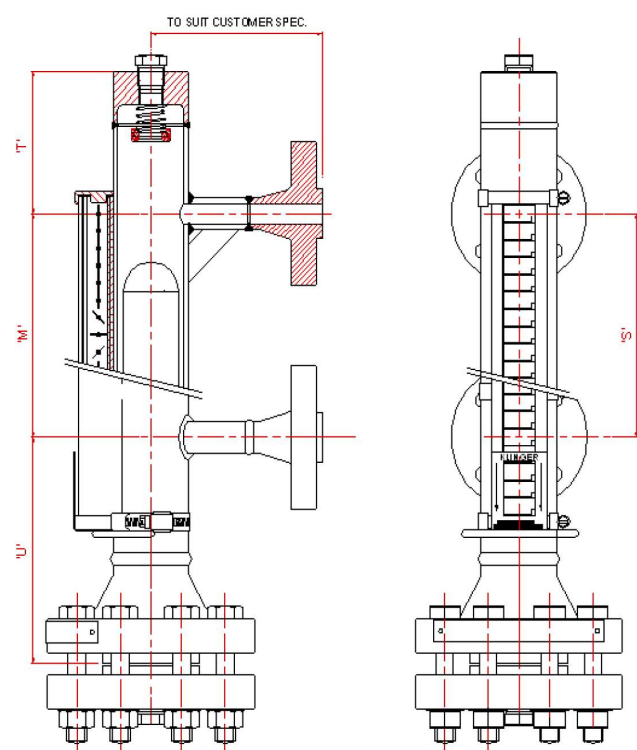
	<b>LEVEL TRANSMITTER CONTROL DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
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- Notes:
- 1 SYSTEM DESIGN PRESSURE & TEMPERATURE: **FV to 362.5 PSIG 25.0 BarG @ 250 °F 121 °C**  
**-45 °F -43 °C**
  - 2 NORMAL OPERATING CONDITIONS ARE: **22.5 PSIG 1.55 BarG @ -10.9 °F -23.82 °C**
  - 3 TRANSMITTER ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED ALUMINUM
  - 4 REFERENCE ACCURACY: **+/- 0.1 % OF FULL SCALE & +/- 0.15 % GUARRANTEED STABILITY OVER FIVE YEARS**
  - 5 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT
  - 6 CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED
  - 7 HARD COPY OF **IIEC-79, EExia IIB-T5** CERTIFICATE  REQUIRED  NOT REQUIRED **PER IEC 60079**
  - 8 MATERIAL TEST REPORT  REQUIRED  NOT REQUIRED
  - 9 CUSTOMER SPECIFICATION: **N/A** , **N/A** & **N/A**
  - 10 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
  - 11 INDICATOR TO SHOW PERCENTAGE
  - 12 AUSTENSIC 316 SS BOLTS REQUIRED
  - 13 NAMEPLATE TO BE MOUNTED TO TOP FLANGE
  - 14 HIGH PRESSURE SIDE, REMOTE MOUNT SEAL, PROCESS CONNECTION IS 2"-300# ANSI RF FLG.
  - 15 LIQUID DENSITY : **36.05 LB/FT3 579 KG/M3**
  - 16 LOW PRESSURE SIDE, PROCESS CONNECTION 2"-300# ANSI RF FLG
  - 17 LCD METER WITH POLYURETHANE COVERED ALUMINUM COVER REQUIRED
  - 18 "SMART" ELECTRONIC TRANSMITTERS WITH "HART PROTOCOL" COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION
  - 19 ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON A DIE-STAMPED STAINLESS STEEL TAG PERMANENTLY ATTACHED TO THE
  - 20 DEVICE ELECTRICAL CONNECTION: M20
  - 21 REFRIGERANT IS PROPYLENE WITH OPERATING CONDITIONS SHOWN IN TABULATION
  - 22 C to C DISTANCE BETWEEN NOZZLES THAT COVERS THE TRANSMITTER CALIBRATION RANGE IS: **111.44 inches 2,830.5 mm**
  - 23 IT IS THE RESPONSIBILITY OF THE SUPPLIER TO ASSURE THAT THE FLOATS FIT INSIDE THE CHAMBER
  - 24 TRANSMITTER ORIENTATION SHALL AS PER SHOWN PER BELOW SNAPSHOT CALLED "ACTUAL DESIGN"



**REQUIREMENTS**


- X = **11.5 in 292.1 mm**
- T = **MFR STD**
- M = **111.44 in 2,830.5 mm**
- U = **MFR STD AS SHORT AS POSSIBLE**
- Z = **1 in 25.4 mm**



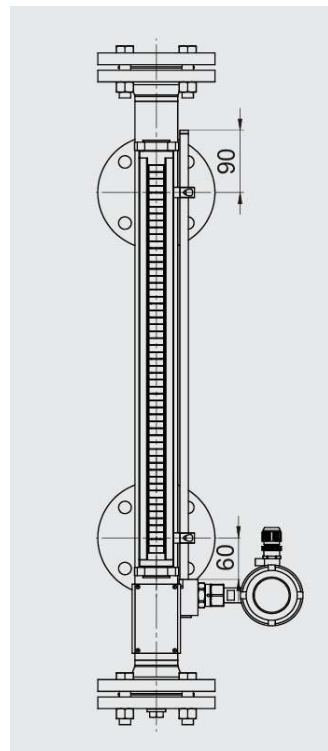
	<b>LEVEL TRANSMITTER INDICATOR DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.
	00	N.B	A.M	12.10.25	IFR
	01	N.B	A.M	09.12.25	IFR

<b>GENERAL</b>	1	Tag No.	SEE TABLE BELOW			Service: SEE TABLE BELOW			
	2	Qty							
	3	Function	Record <input type="checkbox"/>	Indicate <input checked="" type="checkbox"/>	Control <input type="checkbox"/>	VIA MCS <input type="checkbox"/>	Blind <input type="checkbox"/>	Trans <input checked="" type="checkbox"/>	Other
	4	Case	Mfr. Std. <input checked="" type="checkbox"/>	Nom. Size	Color :	<input type="checkbox"/>	Other	NOTE 2	
	5	Mounting	Flush <input type="checkbox"/>	Surface <input checked="" type="checkbox"/>	Yoke <input type="checkbox"/>	Other			
	6	Enclosure Class	Gen. Purpose <input type="checkbox"/>	Weather Proof <input type="checkbox"/>	Explosion Proof <input type="checkbox"/>				
			Use in intrinsically <input checked="" type="checkbox"/>	Safe System <input type="checkbox"/>	Other <input type="checkbox"/>	IIB-T5 - ZONE 2, CL1			
	7	Power Supply	117V 60 Hz <input checked="" type="checkbox"/>	Other ac <input type="checkbox"/>	DC <input checked="" type="checkbox"/>	Volts 24 V			
	8	Chart	N/A	Strip <input type="checkbox"/>	Roll <input type="checkbox"/>	Fold <input type="checkbox"/>	Circular <input type="checkbox"/>	Time Marks <input type="checkbox"/>	
	9	Chart Drive	N/A	Range	Number		Speed		
10	Scales	Type: LCD / DIGITAL		Range: SEE TABLE BELOW					
<b>XMTR</b>	11	Transmitter Output	4-20 mA <input checked="" type="checkbox"/>	10-50mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>	Other			
	For Receiver, see spec sheet. WIRED TO UCP VIA JUNCTION BOXES (2 WIRE OUTPUT) NOTE 18								
<b>CONTROLLER</b> VIA N/A	12	Control Modes	P = Prop (Gain), 1-Integral (Auto Reset), D = Derivative (Rate) Sub: s = slow, f = fast, If <input type="checkbox"/> Df <input type="checkbox"/> P <input type="checkbox"/> PI <input type="checkbox"/> PD <input type="checkbox"/> PID <input type="checkbox"/> Is <input type="checkbox"/> Ds <input type="checkbox"/>						
	14	Action	On Measurement Increase, Output:			Increases <input type="checkbox"/>		Decreases <input type="checkbox"/>	
	15	Auto-Man Switch	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other				
	16	Set Point Adj.	Manual <input type="checkbox"/>	External <input type="checkbox"/>	Remote <input type="checkbox"/>		Other		
	17	Manual Reg.	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other				
	18	Output	NOTE 18	4-20 mA <input type="checkbox"/>	10-50 mA <input type="checkbox"/>	21-103 kPa (3-15 psig) <input type="checkbox"/>	Other		
	19	Service	Gage Press <input type="checkbox"/>	Vacuum <input type="checkbox"/>	Absolute <input type="checkbox"/>		Differential <input checked="" type="checkbox"/>		
	20	Element Type	Diaphragm <input checked="" type="checkbox"/>	Helix <input type="checkbox"/>	Bourdon <input type="checkbox"/>	Bellows <input type="checkbox"/>	Other		
<b>ELEMENT</b>	21	Material (body)	316SS <input checked="" type="checkbox"/>	Ber Copper <input type="checkbox"/>	Other <input type="checkbox"/>				
	22	Range	Fixed <input type="checkbox"/>	Adj. Range <input checked="" type="checkbox"/>	Overrange Protection to: SEE TABLE BELOW Electrical Connection: M20 1/2" NPT				
	23	Process Data	Press.: Nor.: SEE TABLE BELOW	MAX.:		Element Range:			
	24	Process Conn.	1/4" in NPT <input type="checkbox"/>	1/2" in NPT (F) <input checked="" type="checkbox"/>	Other: 2"-300# ANSI RF FLG				
	25	Alarm Switches	Quantity:	Form		Rating			
<b>OPTIONS</b>	26	Function	Press. <input checked="" type="checkbox"/>	Deviation <input type="checkbox"/>	Contacts		On Icr. Meas.		
	27	Options	Filter Reg. <input type="checkbox"/>	Sup. Gage <input type="checkbox"/>	Output Gage <input type="checkbox"/>		Charts		
			Diaphragm Seal <input type="checkbox"/>	Type: N/A	Diaphragm		Bot. Bowl		
			Conn. Capillary: N/A	Length		Mil.			
Other									
<b>AREA CLASSIFICATION</b>			IEC <input checked="" type="checkbox"/>	ZONE 2, EExia IIB-T3 IP-65 / NEMA4X		Agency Approval: ATEX			

Item	Qty	Tag No.	Pressure in (mm)		Operating Pressure PSIG / BarG		Calibration mA in (mm) NOTE 23		Manufacturer/ Model no.	Service
			Range	Over	Min	Max	4	20		
A	1	LT-61131 OIL SEPARATOR	0.00 to 57.4 0 to 1,459	2000 137.9	275.6 19.0	289.1 19.9	0 0.00 0%	48.0 1,214.4 100%	CHAMBER: BNA-  TRANSMITTER: BLM-	NATURAL GAS &  SYNTHETIC OIL
B										
C										

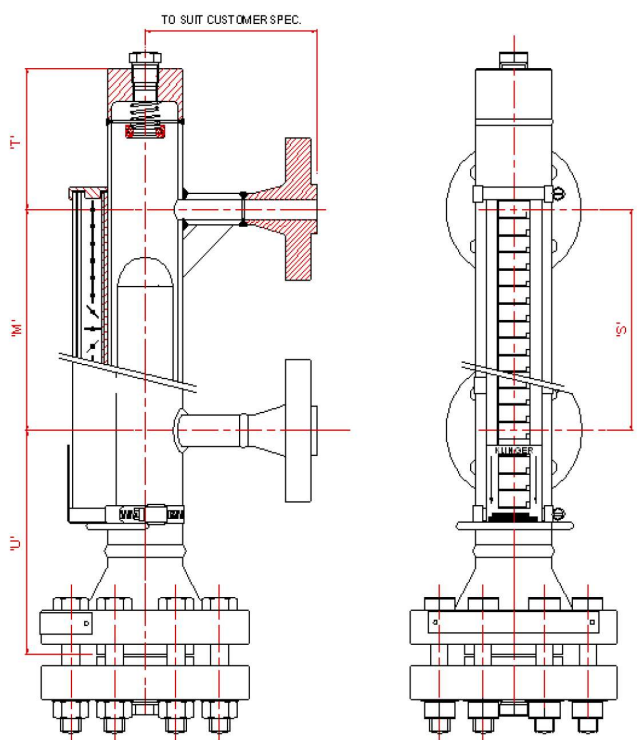
	<b>LEVEL TRANSMITTER INDICATOR DEVICES</b>				Document No: VD-GPIC-MA-3029-3029-0038
					Document Title: Instrument Data sheet & Catalogs
CLIENT: Gachsaran Polymer Industries Company (GPIC) P.O. NO.: GPIC-PT-MA-PO-000-3029 SERVICE: PROPYLENE REFERIGERATION PACKAGE	NO.	BY	APP	DATE	P.O.I.
	00	N.B	A.M	12.10.25	IFR
	01	N.B	A.M	09.12.25	IFR

- Notes:**
- 1 SYSTEM DESIGN PRESSURE & TEMPERATURE: FV to 362.5 PSIG 25.0 BarG @ 250 °F 121 °C  
-49 °F -45 °C
  - 2 NORMAL OPERATING CONDITIONS ARE: FV to 59.6 PSIG 4.1 BarG @ 158 °F 70 °C FOR ITEMS: 1  
158 °F 70 °C FOR ITEMS:
  - 3 TRANSMITTER ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED ALUMINUM
  - 4 REFERENCE ACCURACY: +/- 0.075 % OF FULL SCALE & +/- 0.15 % GUARRANTEED STABILITY OVER FIVE YEARS
  - 5 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT
  - 6 CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED
  - 7 HARD COPY OF IIEC-79, EExia IIB-T5 CERTIFICATE  REQUIRED  NOT REQUIRED PER IEC 60079
  - 8 MATERIAL TEST REPORT  REQUIRED  NOT REQUIRED
  - 9 CUSTOMER SPECIFICATION: N/A , N/A & N/A
  - 10 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
  - 11 INDICATOR TO SHOW PERCENTAGE
  - 12 AUSTENSIC 316 SS BOLTS REQUIRED
  - 13 NAMEPLATE TO BE MOUNTED TO TOP FLANGE
  - 14 HIGH PRESSURE SIDE, REMOTE MOUNT SEAL, PROCESS CONNECTION IS 2"-300# ANSI RF FLG.
  - 15 LIQUID DENSITY := 65= LB/FT3= 1044 KG/M3
  - 16 LOW PRESSURE SIDE, PROCESS CONNECTION 2"-300# ANSI RF FLG
  - 17 LCD METER WITH POLYURETHANE COVERED ALUMINUM COVER REQUIRED
  - 18 "SMART" ELECTRONIC TRANSMITTERS WITH "HART PROTOCOL" COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION=
  - 19 ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON A DIE-STAMPED STAINLESS STEEL TAG PERMANENTLY ATTACHED TO THE DEVICE=
  - 20 ELECTRICAL CONNECTION: M20
  - 21 LIQUID MEDIA IS PAG OIL WITH OPERATING CONDITIONS SHOWN IN TABULATION
  - 22 DISTANCE BETWEEN NOZZLES THAT COVERS THE TRANSMITTER CALIBRATION RANGE IS: 48.00 inches 1,214.4 mm
  - 23 IT IS THE RESPONSIBILITY OF THE SUPPLIER TO ASSURE THAT THE FLOATS FIT INSIDE THE CHAMBER
  - 24 TRANSMITTER ORIENTATION SHALL AS PER SHOWN PER BELOW SNAPSHOT CALLED "ACTUAL DESIGN"



**REQUIREMENTS**

- X = 14.4 in 365.76 mm
- T = MFR STD
- M = 48.00 in 1,219.2 mm
- U = MFR STD AS SHORT AS POSSIBLE
- Z = 1 in 25.4 mm





**SIGHT INDICATOR (ROTAMETER)**

Document No: VD-GPIC-MA-3029-3029-0038

Document Title: Instrument Data sheet & Catalogs


NO.	BY	APP	DATE	P.O.I.
00	N.B	A.M	12.10.25	IFR
01	N.B	A.M	09.12.25	IFR


CLIENT: Gachsaran Polymer Industries Company (GPIC)  
 P.O. NO.: GPIC-PT-MA-PO-000-3029  
 SERVICE: PROPYLENE REFRIGERATION PACKAGE

Item No.	A				B				C
Tag No.	SI-701-O-4 RECEIVER				FG-61131 OIL DEPARATOR				
Connections									
Inlet	3/4"-300# ANSI RF				1-1/2"-300# ANSI RF				
Outlet	3/4"-300# ANSI RF				1-1/2"-300# ANSI RF				
Rating	300#				300#				
Drawing									
P&ID	ULT003-20001-4				ULT003-20001-3				
Type									
Mounting	IN-LINE HORIZONTALLY MOUNTED				IN-LINE HORIZONTALLY MOUNTED				
Construction	BULL'S EYE TYPE (DUAL WINDOW)				BULL'S EYE TYPE (DUAL WINDOW)				
Type	ROTOR				ROTOR				
Material									
Body	STAINLESS STEEL - A351-CF8				STAINLESS STEEL - A351-CF8				
Glass	TEMPERED BOROSILICATE GLASS (SHATTER PROOF)				TEMPERED BOROSILICATE GLASS (SHATTER PROOF)				
Seal/Elastomer	TEFLON				TEFLON				
Bolts / Nuts	SA193-B7 / SA194-2H				SA193-B8 / SA194-8				
Service									
Media	SYNTHETIC OIL / PROPYLENE REFRIGERANT				SYNTHETIC OIL / PROPYLENE REFRIGERANT				
Phase	LIQUID / VAPOR				GAS / VAPOR				
Operating Conditions									
Pressure	270.2	PSIG	18.6	BarG	270.7	18.67	BarG		
Temperature	116.96	°F	47.2	°C	171	77.2	°C		
Manufacture									
Model									
Quantity	2				2				

- Notes:
- 1 SYSTEM DESIGN PRESSURE & TEMPERATURE: FV to 362.5 PSIG 25.0 BarG @ 250 °F 121 °C  
 MINIMUM DESIGN TEMPERATURE -45 °F -43 °C FOR: 3  
 -20 °F -29 °C FOR: 1
  - 2 WETTED MATERIAL IS 316 STAINLESS STEEL
  - 3 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT
  - 4 CALIBRATION CERTIFICATE  REQUIRED  NOT REQUIRED
  - 5 CERTIFICATE OF COMPLIANCE  REQUIRED  NOT REQUIRED
  - 6 316SS NAMEPLATE  REQUIRED  NOT REQUIRED
  - 7 NACE-MR-0475-RATED
  - 8 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
  - 9 BOLTS / NUTS SHALL BE CADMIUM PLATED
  - 10 INDIVIDUAL PART WEIGHT MUST BE CERTIFIED
  - 11 WHERE APPLICABLE, PMI REQUIRED PER SPECIFICATION
  - 12 INSPECTION PER STATED CODES
  - 13 STAINLESS STEEL MATERIAL CAN BE QUOTED IF CARBON STEEL IS NOT AVAILABLE
  - 14 HYDROSTATIC CERTIFICATE REQUIRED FOR ALL VALVES
  - 15 INLET AND OUTLET BORES SHALL MATCH WITH SCH80 PIPE



				<b>SOLENOID VALVE</b>				Document No: VD-GPIC-MA-3029-3029-0038								
						Document Title: Instrument Data sheet & Catalogs										
<b>CLIENT:</b> Gachsaran Polymer Industries Company (GPIC) <b>P.O. NO.:</b> GPIC-PT-MA-PO-000-3029 <b>SERVICE:</b> PROPYLENE REFERIGERATION PACKAGE				<b>NO.</b>		<b>BY</b>		<b>APP</b>		<b>DATE</b>		<b>P.O.I.</b>				
				00		N.B		A.M		12.10.25		IFR				
				01		N.B		A.M		09.12.25		IFR				
<b>GENERAL</b>		1	Tag No.	<b>SEE TABLE BELOW</b>						Service: <b>See Table Below</b>						
		2	Function	Record <input type="checkbox"/>		Indicate <input checked="" type="checkbox"/>		Control <input checked="" type="checkbox"/>		Blind <input type="checkbox"/>		Trans <input checked="" type="checkbox"/>		Other		
		3	Case	MFR. Std. <input checked="" type="checkbox"/>		Nom <input type="checkbox"/>		Nom. Size		Color: MFR. Std <input checked="" type="checkbox"/>		Other <b>NOTE 2</b>				
		4	Mounting	Flush <input type="checkbox"/>		Surface <input type="checkbox"/>		Yoke <input type="checkbox"/>		Other <b>RACK MOUNT</b>						
		5	Enclosure Class	Gen. Purpose <input type="checkbox"/>		Weather Proof <input checked="" type="checkbox"/>		Explosion Proof <input checked="" type="checkbox"/>		<b>IIB-T5 - ZONE 2, CL1</b>						
		6	Power Supply	117V 60 Hz <input type="checkbox"/>		Other ac		dc <input checked="" type="checkbox"/>		Volts: <b>24 V</b>						
		7	Chart	Strip <input type="checkbox"/>		Roll <input type="checkbox"/>		Fold <input type="checkbox"/>		Circular <input type="checkbox"/>		Time marks <input type="checkbox"/>				
		8	Chart Drive	Speed				Power								
		9	Scale	Type: <b>LCD / DIGITAL</b>		Range: <b>0 - 2000 OHMS</b>										
<b>XMTR</b>		10	Transmitter Output	4-20 mA <input checked="" type="checkbox"/>		10-50mA <input type="checkbox"/>		21-103 kPa (3-15 psig) <input type="checkbox"/>		Other						
				For Receiver, see spec sheet. <b>WIRED TO PLC VIA I/O RACK (2 WIRES OUTPUT)</b>												
<b>CONTROLLER VIA PLC</b>		11	Control Modes	Sub: s = slow, f = fast,		If <input type="checkbox"/> Df <input type="checkbox"/>		P <input type="checkbox"/> PI <input type="checkbox"/> PD <input type="checkbox"/> PID <input type="checkbox"/>		Is <input type="checkbox"/> Ds <input type="checkbox"/>		Other				
				On Measurement Increase, Output:		Increases <input type="checkbox"/>		Decreases <input type="checkbox"/>								
		12	Action	None <input type="checkbox"/>		MFR Std <input checked="" type="checkbox"/>		Other								
		13	Auto-Man Switch	Manual <input type="checkbox"/>		External <input checked="" type="checkbox"/>		Remote <input checked="" type="checkbox"/>		Other						
		14	Set Point Adj.	None <input type="checkbox"/>		MFR Std <input checked="" type="checkbox"/>		Other								
		15	Manual Reg.	4-20 mA <input checked="" type="checkbox"/>		10-50mA <input type="checkbox"/>		21-103 kPa (3-15 psig) <input type="checkbox"/>		Other						
		16	Output													
<b>ELEMENT</b>		17	Fill	SAMA Class		Compensation										
		18	Process Data	<b>SEE TABLE BELOW</b>												
		19	Range	Fixed <input checked="" type="checkbox"/>		Adj. Range <b>0-1000 ohms</b>		Set @ <b>SEE BELOW</b>								
				Instrument Connection:		Electrical Connection: <b>M20 1/2" NPT</b>										
		20	Bulb	Type: <b>POTENTIOMETER (0-5 VDC)</b>		Sheat Material:										
				Size:		Diameter:		Number of Wires: <b>3-WIRES</b>								
		21														
		22														
		23	Alarm Switches	Quantity: <b>1 / TRANSMITTER</b>		Form <b>SOFT</b>		Rating <b>VIA PLC</b>								
		24	Function	Resistor <input checked="" type="checkbox"/>		Deviation <input type="checkbox"/>		Contacts to		On Temp. Incr.						
		25	Options	Other: <b>DIGITAL DISPLAY</b>												
<b>AREA CLASS.</b>		27		IEC <input checked="" type="checkbox"/>		<b>ZONE 2, EExia IIB-T: IP-65 / NEMA4X</b>		Agency Approval: <b>ATEX</b>								
<b>TRANSMITTER</b>																
Item	Qty	Tag No.	Resistance (ohms)		Oper. Press. (PSIG)		Calibration (ohms)		Manufacturer / Model No.	Service						
			Range	Oper.	Min.	Max.	4 mA	20 mA								
A	1	ZT-61111	0-2000	0-1000	ATM	ATM	0 ohms	1000 ohms		HYDROCARBON GAS & SYNTHETIC OIL						
B	1	ZT-61111	0-2000	0-1000	ATM	ATM	0 ohms	1000 ohms		HYDROCARBON GAS & SYNTHETIC OIL						
<b>Notes:</b>																
1 SYSTEM DESIGN PRESSURE & TEMPERATURE:													300 °F		149 °C	
2 ACCURACY: <b>+/- 0.02</b> % FS																
3 INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT																
4 CALIBRATION CERTIFICATE <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED																
5 HARD COPY OF <b>IIEC-79, EExia IIB-T5</b> CERTIFICATE <input checked="" type="checkbox"/> REQUIRED <input type="checkbox"/> NOT REQUIRED															<b>PER IEC 60079</b>	
6 CUSTOMER SPECIFICATION: 1400-20-IC-SP-5102																
7																
8= ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON A DIE-STAMPED STAINLESS STEEL TAG PERMANENTLY ATTACHED TO THE DEVICE=																
9= "SMART" ELECTRONIC TRANSMITTERS SHALL BE SUITABLE OVER RANGE OF APPLICATION																
10= ALL HARDWARE SHALL BE 316 SS																
11= ALL DOCUMENTS TO BE SUBMITTED IN ELECTRONIC FORMAT																
12= AUSTENSIC 316 SS BOLTS REQUIRED																
13																
14= BRACKET FOR 2" PIPE OR PANEL MOUNTING OF STAINLESS STEEL CONSTRUCTION REQUIRED																
15= LCD METER WITH STAINLESS STEEL COVER REQUIRED																
16= INDIVIDUAL PART WEIGHT MUST BE CERTIFIED																

				SOLENOID VALVE (CAPACITY CONTROL)		Document No:	VD-GPIC-MA-3029-3029-0038		
						Document Title:	Instrument Data sheet & Catalogs		
				NO.	BY	APP	DATE	P.O.I.	
<b>CLIENT:</b> Gachsaran Polymer Industries Company (GPIC) <b>P.O. NO.:</b> GPIC-PT-MA-PO-000-3029 <b>SERVICE:</b> PROPYLENE REFERIGERATION PACKAGE				00	N.B	A.M	12.10.25	IFR	
				01	N.B	A.M	09.12.25	IFR	
<b>GENERAL</b>	0	Item No.	<b>A</b>						
	1	Tag No.	<b>LOAD</b>	<b>XY-61112</b>	<b>&amp;</b>	<b>XY-61122</b>			
			<b>UNLOAD</b>	<b>XY-61111</b>	<b>&amp;</b>	<b>XY-61121</b>			
	2	Service	<b>AIR</b>						
	3	Line No. / Vessel No.	<b>COMPRESSOR LOADING / UNLOADING</b>						
4	Valve No.	<b>DIRV-61111</b> <b>DIRV-61111</b>							
<b>VALVE BODY</b>	5	Type	<b>3 WAY DIRECT ACTING w/ QUICK EXHAUST</b>						
	6	Size - Body / Port	<b>1/4" / 3</b>						
	7	Rating & Type Connection	<b>NPT</b>						
	8	Material - Body	<b>316 STAINLESS STEEL</b>						
	9	Material - Disc (Trim)	<b>BUNA (HIGH NITRILE)</b>						
	10	Material-Diaphragm / Coil	<b>EPOXY MOLDED</b>						
	11	Operation - Direct/Pilot	<b>DIRECT</b>						
	12	Packless or Type Packed	<b>----</b>						
	13	Manual Reset Lever	<b>----</b>						
	14	Manual Operator( override)	<b>INCLUDED</b>						
	15								
	16								
	<b>WHEN DE-ENERGIZE</b>	17	2-Ways Valve Opens/Close	<b>---</b>					
		18	3-Way (NOTE 10)	<b>YES</b>					
19		Vent Port Opens/Close	<b>OPENS</b>						
20		Pressure Port Opens/Close	<b>CLOSES</b>						
21		4-Way	<b>----</b>						
22		Pressure to Cyl. 1/ Cyl. 2	<b>----</b>						
23		Exh. from Cyl. 1/ Cyl. 2	<b>----</b>						
24									
25									
<b>SOLENOID</b>		26	Enclosure	<b>IEC-79, Eex(d) IIB-T3 IP66 (NEMA-4X)</b>					
	27	Voltage/Hz	<b>24 VDC (LOW POWER OPERATOR)</b>						
	28	Style of Coil	<b>CL. "H" HERMETICALLY SEALED HIGH TEMP.</b>						
	29	Single or Double Coil	<b>SINGLE</b>						
	30	Area Classification	<b>IEC-79, ZONE 2, GROUP IIB, T3, EE x(d)</b>						
	31	Cable Entry	<b>M20 x 1.5 mm</b>						
<b>SERVICE CONDITION</b>	32	Fluid	<b>AIR</b>						
	33	Qty., Max	<b>8</b>	<b>SCFM</b>	<b>12.7</b>	<b>S M3/HR</b>			
	34	Operating Differential Min/Max	<b>10</b>	<b>/ 15</b>	<b>PSID</b>	<b>0.7 / 1.03</b>	<b>BarD</b>		
	35	Allow . Differential Min/Max	<b>20</b>	<b>/ 150</b>	<b>PSID</b>	<b>1.4 / 10.3</b>	<b>BarD</b>		
	36	Temperature Norm/Max	<b>70</b>	<b>/ 100</b>	<b>°F</b>	<b>21 / 37.8</b>	<b>°C</b>		
	37	Operating Specific Gravity	<b>1.0</b>						
	38	Operating Viscosity	<b>-----</b>						
	39	Required Cv	<b>0.200</b>						
	40	Valve Cv / Orifice	<b>0.8 /</b>						
	41								
	42	Agency Approval	<b>ATEX</b>						
	43								
	44								
	45	Manufacturer							
46	Model No.								
47	QTY	<b>4</b>							
<b>NOTES:</b>	1	<b>SYSTEM DESIGN PRESSURE &amp; TEMPERATURE:</b>							
	2		<b>150 PSIG</b>	<b>10</b>	<b>BarG</b>	<b>@</b>	<b>300 °F 149 °C</b>		
	3						<b>-20 °F -29 °C</b>		
	3	<b>INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT</b>							
	4	<b>CALIBRATION CERTIFICATE</b>	<input type="checkbox"/>	<b>REQUIRED</b>	<input checked="" type="checkbox"/>	<b>NOT REQUIRED</b>			
	5	<b>CERTIFICATE OF COMPLIANCE</b>	<input checked="" type="checkbox"/>	<b>REQUIRED</b>	<input type="checkbox"/>	<b>NOT REQUIRED</b>			
	6	<b>HARD COPY OF IEC-79, EEXD IIB-T3 CERTIFICATE</b>	<input checked="" type="checkbox"/>	<b>REQUIRED</b>	<input type="checkbox"/>	<b>NOT REQUIRED</b>			
	7	<b>AREA CLASSIFICATION:</b>	<b>IEC-79, ZONE 2, GROUP IIB, T3, EE x(d)</b>						
	8	<b>MANUFACTURER CALCULATION / SIZING SHEET</b>	<input type="checkbox"/>	<b>REQUIRED</b>	<input checked="" type="checkbox"/>	<b>NOT REQUIRED</b>			
	9	<b>STAINLESS STEEL NAMEPLATE (316)</b>	<input checked="" type="checkbox"/>	<b>REQUIRED</b>	<input type="checkbox"/>	<b>NOT REQUIRED</b>			
	10	<b>COILS SHALL BE FITTED WITH SURGE SUPPRESSION DIODES.</b>							
	11	<b>SOLENOID VALVE POWER CONSUMPTION SHALL BE LESS LESS THAN 10 WATTS.</b>							
	12	<b>BUG SCREENS SHALL BE INSTALLED ON EXHAUST</b>							
	13	<b>LEADS TO BE TERMINATED IN A CONDUIT BOX SUITABLE FOR AREA CLASSIFICATION.</b>							
	14	<b>ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT</b>							
15	<b>INDIVIDUAL PART WEIGHT MUST BE CERTIFIED</b>								

