

		PRESSURE TRANSMITTER				CLIENT DOC.: VD-GPIC-MA-3029-3029-0038			
		CONTROL DEVICES							
		NO.	BY	APP	DATE	DESCRIPTION			
		0	FAD	IMA	05/09/25	FOR QUOTATION & APPROVAL			
CLIENT:									
P.O. NO.:									
PROJECT:									
JOB NO.:									
SERVICE:									
GENERAL	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 <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 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 24 V		<input checked="" type="checkbox"/>	IIB-T5 - ZONE 1, CL1
	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							
XMTR	11	Transmitter Output	4-20 mA <input 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						
CONTROLLER VIA UCP	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 checked="" 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"/>		NOTE 21		
	16	Set Point Adj.	Manual <input type="checkbox"/>	External <input type="checkbox"/>	Remote <input checked="" type="checkbox"/>	UCP		NOTE 9	
	17	Manual Reg.	None <input type="checkbox"/>	MFR Std <input type="checkbox"/>	Other				
18	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		
ELEMENT	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 NOTE 19		
	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"/>					
	23	Process Data	Overrange Protection to: SEE TABLE BELOW						
VIA UCP	24	Process Conn.	1/4" in NPT <input type="checkbox"/>	1/2" in NPT (F) <input checked="" type="checkbox"/>	Other: 1/2" CONDUIT CONNECTION				
			Location: Bottom: <input checked="" type="checkbox"/>	Back <input type="checkbox"/>		Other			
	25	Alarm Switches	Quantity: BY UCP REFER TO SETPOINT LIST	Form		Rating			
OPTIONS	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	Mtl.			
		Other	ELECTRICAL GROUND SCREW REQUIRED						
AREA CLASSIFICATION		IEC <input checked="" type="checkbox"/>		ZONE 1, EEx IIB-IP-67 / NEMA4X		Agency Approval: ATEX			

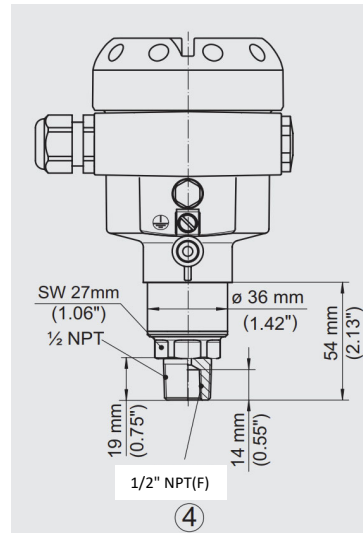
Item	Qty	Tag No.	Pressure PSIG - BarG		Operating Press. PSIG / BarG		Calibration mA PSIG / BarG		Manufacturer/ (Note 16) Model no.	Service
			Range	Over	Min	Max	4	20		
A	1	PIT-61111	-14.7 to 580	1160	22.5	25.9	0.00	250		PROPYLENE &
		SUCTION	-1.01 to 40.0	80.0	1.55	1.76	0.0	17.2		SYNTHETIC OIL
B	1	PIT-61113	-14.7 to 580	1160	304.6	343.3	0.00	400		PROPYLENE &
		OIL SUPPLY	-1.01 to 40.0	80.0	21.0	23.7	0.0	27.6		SYNTHETIC OIL
C										
D										
AA	1	PIT-61121	-14.7 to 580	1160	22.5	25.9	0.00	250		PROPYLENE &
		SUCTION	-1.01 to 40.0	80.0	1.55	1.76	0.0	17.2		SYNTHETIC OIL
BB	1	PIT-61123	-14.7 to 580	1160	304.6	256.1	0.00	400		PROPYLENE &
		OIL SUPPLY	-1.01 to 40.0	80.0	21.0	17.7	0.0	27.6		SYNTHETIC OIL
CC	1									
DD	1	PIT-61141	-14.7 to 580	1160	85.5	289.1	0.00	400		PROPYLENE &
		ECONOMIZER	-1.01 to 40.0	80.0	5.90	19.9	0.0	27.6		SYNTHETIC OIL

	PRESSURE TRANSMITTER				CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
	CONTROL DEVICES					
	NO.	BY	APP	DATE	DESCRIPTION	
	0	FAD	IMA	05/09/25	FOR QUOTATION & APPROVAL	
CLIENT:						
P.O. NO.:						
PROJECT:						
JOB NO.:						
SERVICE:						

Notes:

- 1 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	
- 2 TRANSMITTER ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED ALUMINUM
- 3 REFERENCE ACCURACY: +/- 0.1 % 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 IEC-79, EExi IIB-T5 CERTIFICATE REQUIRED NOT REQUIRED
- 7 CUSTOMER SPECIFICATION: N/A , 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 HART COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION
- 10 AUSTENSIC 316 SS BOLTS REQUIRED
- 12 MOUNTING BRACKET FOR 2-IN PIPE BY VENDOR (AGCO)
- 13 LCD METER WITH POLYURETHANE COVERED ALUMINUM COVER REQUIRED
- 14 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
- 15 INDICATOR TO SHOW BARG AND °C
- 16 MATERIAL SHALL BE PER APPROVED VENDOR LIST. MANUFACTURER LISTED ABOVE IS FOR REFERENCE.
- 17 ELECTRICAL CONNECTION: M20
- 18 REQUIRED ASSEMBLY AS PER BELOW PIC WITH ISOLATION VALVE
- 19 TRANSMITTERS ARE SUPPLIED WITH THIN FILM TYPE PIEZORESISTIVE SENSORS
- 20 SENSOR FILLING: PAG SYNTHETIC OIL
- 21 REFER TO CONTROL NARRATIVE AND SET POINT LIST FOR THE CONTROLLER ACTION
- 22 HOUSING SHALL BE SELECTED TO SHOW TRANSMITTER LCD AT 90 DEGREE FROM INLET AS SHOWN BELOW.

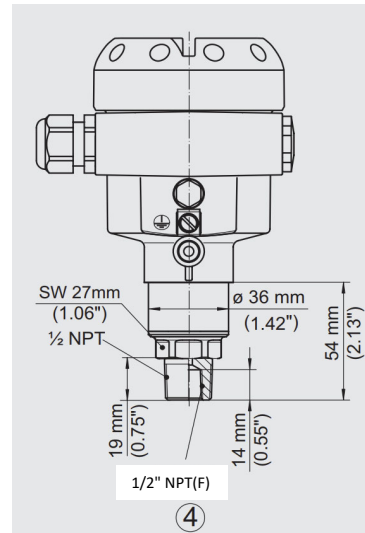


	PRESSURE TRANSMITTER				CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
	INDICATOR DEVICES					
	NO.	BY	APP	DATE	DESCRIPTION	
	0	FAD	IMA	05/09/25	FOR QUOTATION & APPROVAL	
CLIENT:						
P.O. NO.:						
PROJECT:						
JOB NO.:						
SERVICE:						

Notes:

- 1 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	
- 2 TRANSMITTER ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED ALUMINUM
- 3 REFERENCE ACCURACY: +/- 0.1 % 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 IEC-79, EExi IIB-T5 CERTIFICATE REQUIRED NOT REQUIRED
- 7 CUSTOMER SPECIFICATION: N/A , N/A & N/A
- 8 ELECTRICAL CLASS CERTIFICATION SHALL BE SHOWN ON ALUMINUM DIE-CASTING HOUSING STAMPED USING STAINLESS STEEL TAG PERMANENTLY
- 9 ATTACHED TO THE DEVICE
- 10 HART COMMUNICATION SHALL BE SUITABLE OVER RANGE OF APPLICATION
- 12 AUSTENSIC 316 SS BOLTS REQUIRED
- 13 MOUNTING BRACKET FOR 2-IN PIPE BY VENDOR (AGCO)
- 14 LCD METER WITH POLYURETHANE COVERED ALUMINUM COVER REQUIRED
- 15 ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT
- 16 INDICATOR TO SHOW BARG AND °C
- 17 MATERIAL SHALL BE PER APPROVED VENDOR LIST. MANUFACTURER LISTED ABOVE IS FOR REFERENCE.
- 18 ELECTRICAL CONNECTION: M20
- 19 REQUIRED ASSEMBLY AS PER BELOW PIC WITH ISOLATION VALVE
- 20 TRANSMITTERS ARE SUPPLIED WITH THIN FILM TYPE PIEZORESISTIVE SENSORS
- 21 SENSOR FILLING: PAG SYNTHETIC OIL
- 22 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.



	INDUSTRIAL BIMETAL &				CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
	GLASS THERMOMETER					
	REV	BY	APP	DATE	DESCRIPTION	
CLIENT:	0	FAD	IMA	05/09/25	FOR APPROVAL	
P.O. NO.:						
PROJECT:						
JOB NO.:						
SERVICE:						

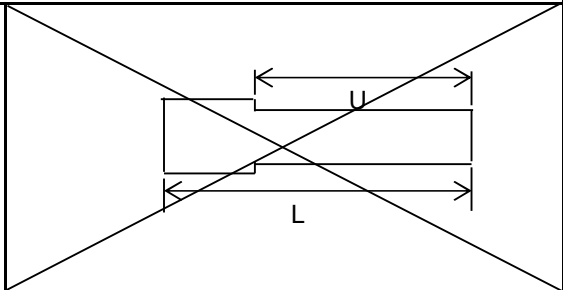
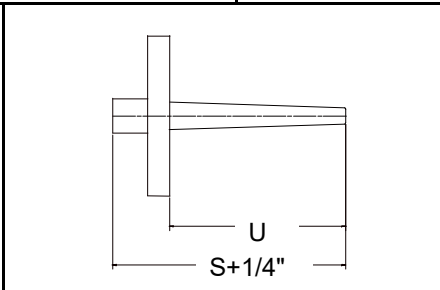
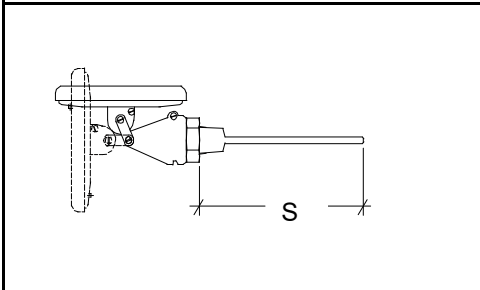
THERMOMETER

1. Stem: Threaded Plain Union
Material: **STAINLESS STEEL** Type:

2. Stem or Union Thread: 1/2" 3/4"
3. Stem Diameter: Std 1/4" 3/8" in.
4. Case Material: Std Others **316SS**
5. Dial Size: **5" in.** Color: **WHITE**
6. Scale: **SEE BELOW** Color: **BLACK**
7. Form: Adjustable
8. External Calibrator Hermetically Sealed Case
9. MFR. & Model No.

WELL

10. None Included By others
11. Material: 304SS 316SS
Other:
13. Construction: Drilled Built-up
Other: **FLANGED TAPERED SHANK FROM SOLID BAR STOCK**
14. MFR. & Model **ASHCROFT & SEE TABLE BELOW**
15. Connection: **SEE TABLE BELOW**



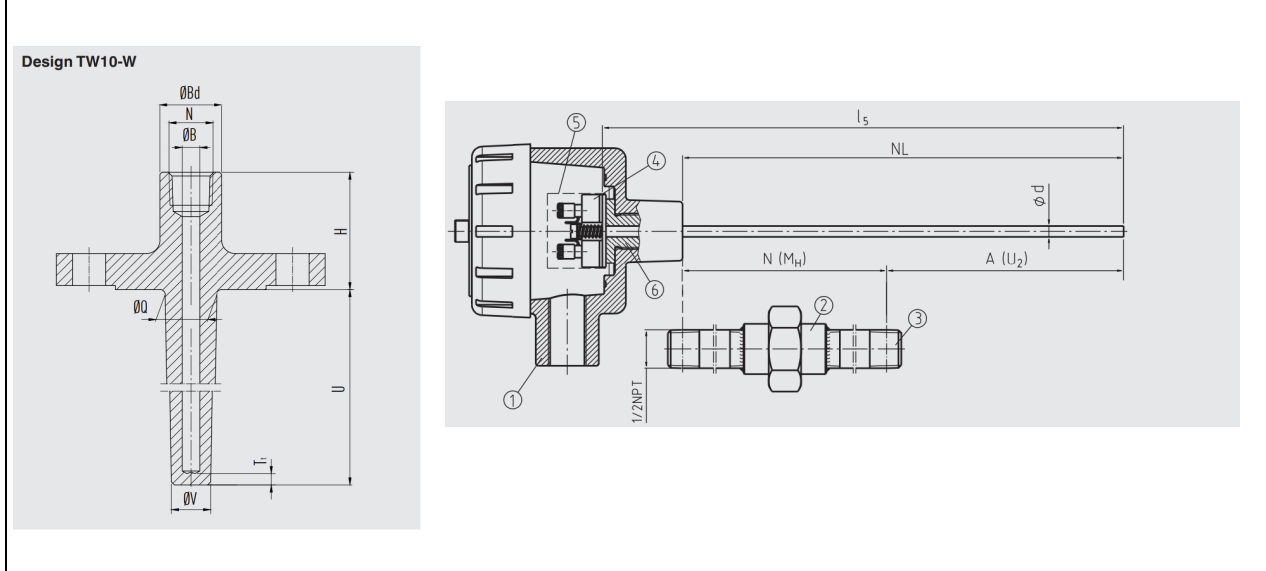
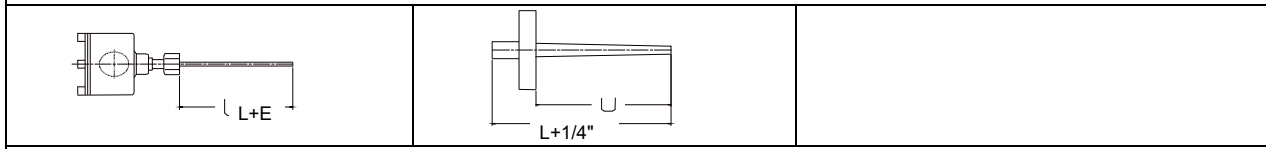
Item	Qty	Tag No.	Range °F (°C)	Oper. Temp. °F (°C)	Stem Depth (S)	Well Conn.	Lag Ext.	Insert (U)	Service	Model Number Sensor/Well
						Inst. Con.				
A	1	TG-61141 RECEIVER	-40 to 250 -40 to 121	117.716 47.62	14 " 355.6	1-1/2"- 300# / 1/2" NPT	-	12 304.8	SYNTHETIC OIL (RECEIVER VESSEL)	
B										
C										
D										
E										
F										
G										

Notes:

- SYSTEM DESIGN PRESSURE & TEMPERATURE: **FV to 362.5 PSIG** 25.0 BarG @ **250 °F** 121 °C **FOR ITEMS: 1**
-45 °F -43 °C
- WETTED MATERIAL IS 316 STAINLESS STEEL**
- ACCURACY: +/- 1 % FULL SPAN**
- INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT**
- CALIBRATION CERTIFICATE** REQUIRED NOT REQUIRED
- CERTIFICATE OF COMPLIANCE** REQUIRED NOT REQUIRED
- HERMETIC SEAL REQUIRED**
- CUSTOMER SPECIFICATION:** &
- ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT**
- DUAL SCALE IS REQUIRED**
- MATERIAL SHALL BE PER APPROVED VENDOR LIST. DEVIATION FROM "AVL" IS NOT ALLOWED.**
- THERMOWELL SHALL BE FULL PENETRATION WELD**
- THERMOWELL NATURAL FREQUENCY CALCULATION REQUIRED**

				TEMPERATURE TRANSMITTER		CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
				CONTROL DEVICES			
				NO.	BY	APP	DATE
				0	SES	IES	05/09/25
				DESCRIPTION			
CLIENT:				FOR APPROVAL			
P.O. NO.:							
PROJECT:							
JOB NO.:							
SERVICE:							

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-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	YES	
B												
C												
D												
E												



	TEMPERATURE TRANSMITTER				CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
	CONTROL DEVICES					
	NO.	BY	APP	DATE	DESCRIPTION	
CLIENT:	0	SES	IES	05/09/25	FOR APPROVAL	
P.O. NO.:						
PROJECT:						
JOB NO.:						
SERVICE:						

Notes:

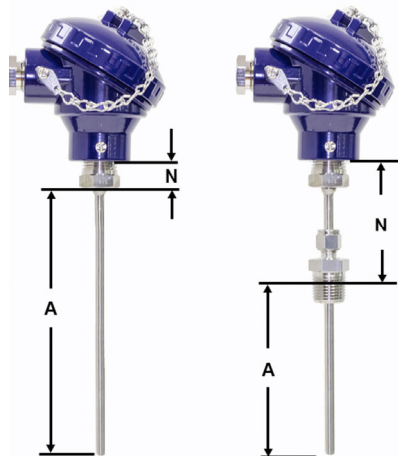
- 1 SYSTEM DESIGN PRESSURE & TEMPERATURE: FV to 362.5 PSIG 25.0 BarG @ 250 °F 121 °C FOR ITEMS: 1
 FV to 406 PSIG 28.0 BarG @ 250 °F 121 °C FOR ITEMS:
 -45 °F -43 °C
 -20 °F -29 °C
- 2 TRANSMITTER AND SENSOR ELECTRICAL HOUSING MUST BE POLYURETHANE COVERED DIE ALUMINUM-HOUSING, THERMOWELL IS 316 STAINLESS 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, EExi IIB-T5 CERTIFICATE REQUIRED NOT REQUIRED
- 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 Barg AND °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
- 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 FREQUENCY CALCULATION REQUIRED



THERMOWELL & HEAD



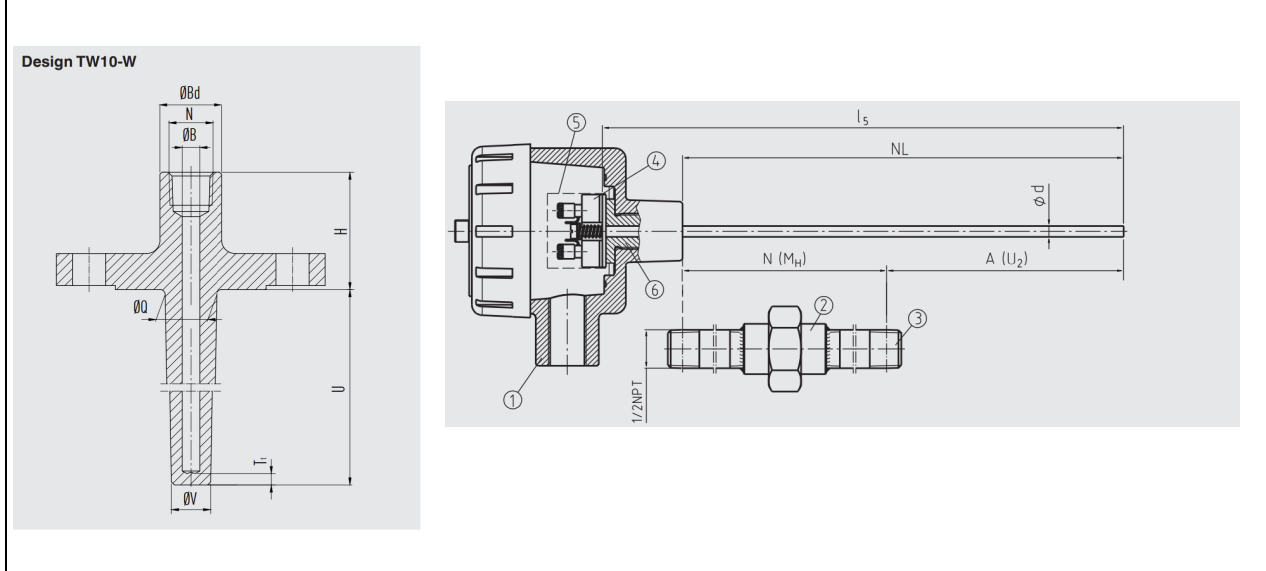
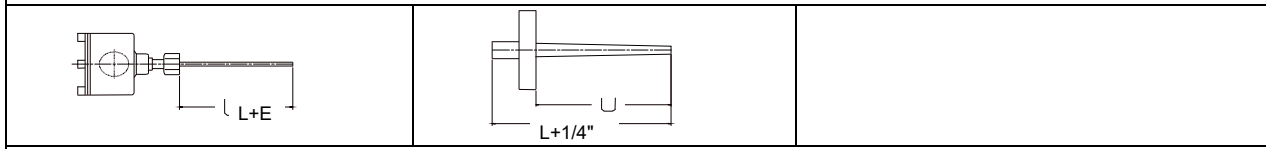
REMOTE TRANSMITTER WITH ELECTRONIC DISPLAY



$A = U + H$

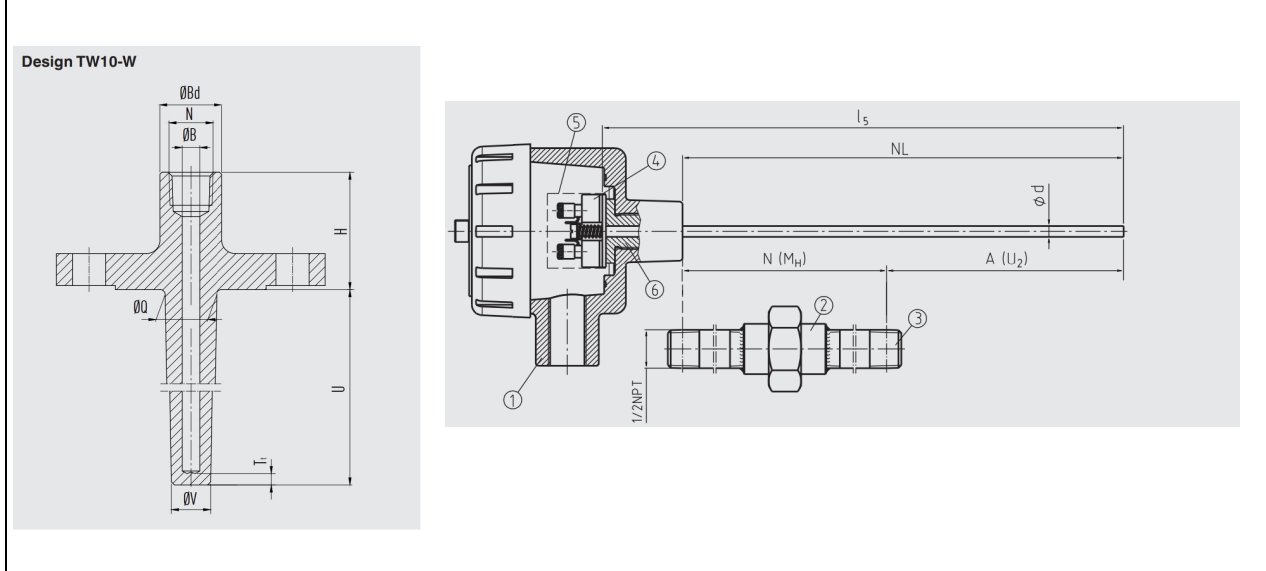
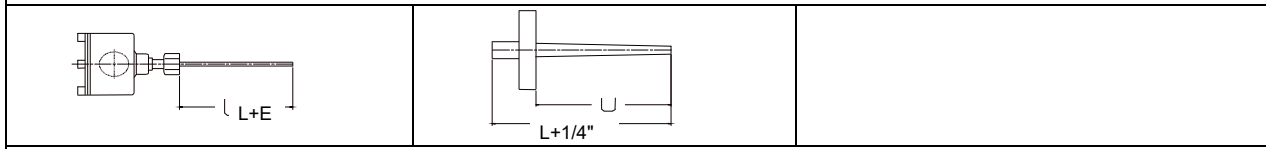
				TEMPERATURE TRANSMITTER		CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038	
				INDICATOR DEVICES				
				NO.	BY	APP	DATE	DESCRIPTION
CLIENT:				0	SES	IES	05/09/25	FOR APPROVAL
P.O. NO.:								
PROJECT:								
JOB NO.:								
SERVICE:								

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 76.2	TAPERED	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 76.2	TAPERED	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 76.2	TAPERED	YES	
E												



				TEMPERATURE TRANSMITTER		CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
				INDICATOR DEVICES			
				NO.	BY	APP	DATE
				0	SES	IES	05/09/25
				DESCRIPTION			
CLIENT:				FOR APPROVAL			
P.O. NO.:							
PROJECT:							
JOB NO.:							
SERVICE:							

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	YES	
B												
C												
D												
E												



	GAUGES			CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
	GLASSES & COCKS				
CLIENT: P.O. NO.: PROJECT: JOB NO.: SERVICE:	NO.	BY	APP	DATE	DESCRIPTION
	0	FAD	IMA	14/9/2025	FOR APPROVAL

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

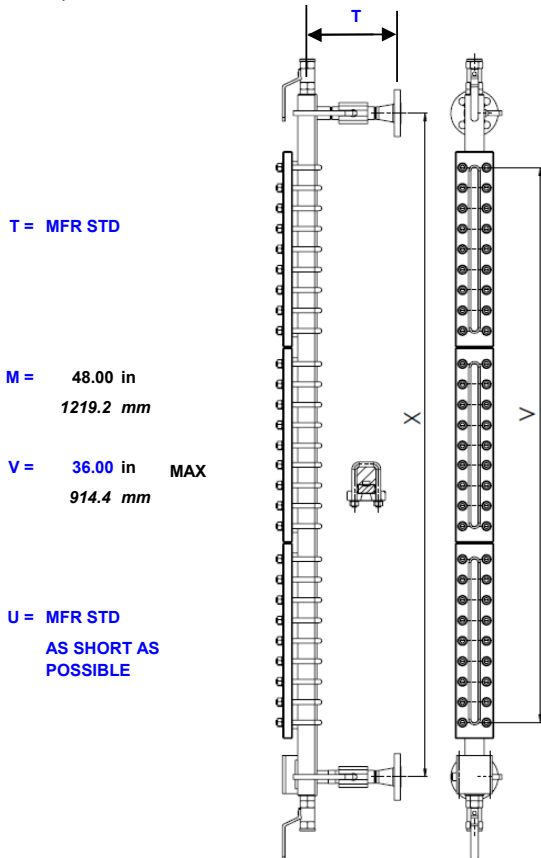
Item	Qty.	Tag No.	Visible Glass	OVERALL LENGTH	Model No.	Operating		Service
						Pressure PSIG (BarG)	Temp. °F (°C)	
A	1	LG-61141 RECEIVER HEADER	36.0 " 914 mm	36.0 " 914 mm	L21SR/1219.2/A2"300lbR F/N/Ex	268.4 18.5	117.3 47.4	PROPYLENE REFRIGERANT & SYNTHETIC OIL
B								
B								

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	GAUGES				CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
	GLASSES & COCKS					
CLIENT: P.O. NO.: PROJECT: JOB NO.: SERVICE:	NO.	BY	APP	DATE	DESCRIPTION	
	0	FAD	IMA	14/9/2025	FOR APPROVAL	

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	C TO C DISTA	48 inches	1,219.2 mm				
10	VENT AND DRAIN CONNECTION SHALL BE SUPPLIED WITH BALL VALVES							

REQUIREMENTS



		LEVEL TRANSMITTER			CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
		CONTROL DEVICES				
		NO.	BY	APP	DATE	DESCRIPTION
CLIENT:	0	0	FAD	IMA	09/14/25	FOR QUOTATION & APPROVAL
P.O. NO.:						
PROJECT:						
JOB NO.:						
SERVICE:						

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, EExi IIB-T5** CERTIFICATE REQUIRED NOT REQUIRED
- 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 DEVICE**
- 20 **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: 107.44 inches 2,718.2 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"**



X = 11.5 in
292.1 mm

T = MFR STD

M = 107.44 in
2728.91 mm

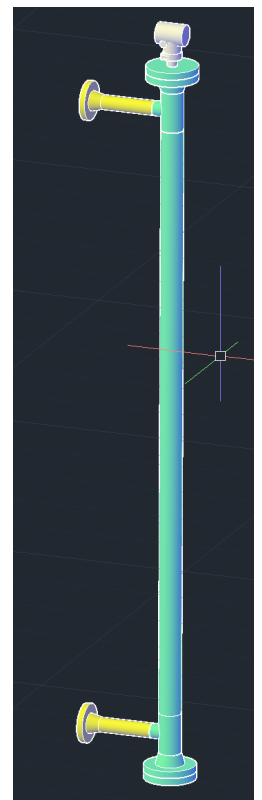
U = MFR STD
AS SHORT AS POSSIBLE

Z = 1 in
25.4 mm

REQUIREMENTS



ACTUAL DESIGN



	LEVEL TRANSMITTER				CLIENT DOC.:	VD-GPIC-MA-3029-3029-0038
	INDICATOR DEVICES					
	NO.	BY	APP	DATE	DESCRIPTION	
CLIENT:	0	FAD	IMA	09/14/25	FOR QUOTATION & APPROVAL	
P.O. NO.:						
PROJECT:						
JOB NO.:						
SERVICE:						

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 IEC-79, EExi IIB-T5 CERTIFICATE REQUIRED NOT REQUIRED
- 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, 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
- 20 DEVICE ELECTRICAL CONNECTION: M20
- 21
- 22 LIQUID MEDIA IS PAG OIL WITH OPERATING CONDITIONS SHOWN IN TABULATION
- 23 DISTANCE BETWEEN NOZZLES THAT COVERS THE TRANSMITTER CALIBRATION RANGE IS: 48.00 inches 1,214.4 mm
- 24 IT IS THE RESPONSIBILITY OF THE SUPPLIER TO ASSURE THAT THE FLOATS FIT INSIDE THE CHAMBER
- 25 TRANSMITTER ORIENTATION SHALL AS PER SHOWN PER BELOW SNAPSHOT CALLED "ACTUAL DESIGN"



X = 14.38 in
365 mm

T = MFR STD

M = 48.00 in
1219 mm

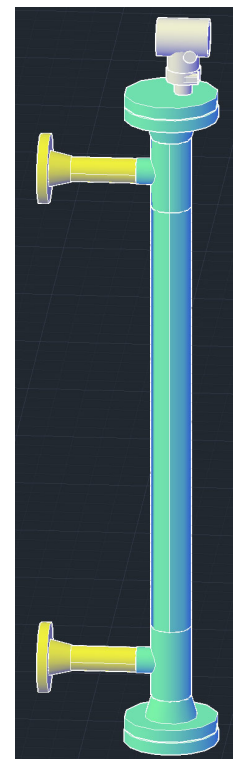
U = MFR STD
AS SHORT AS
POSSIBLE

Z = 1 in
25.4 mm

REQUIREMENTS



ACTUAL DESIGN



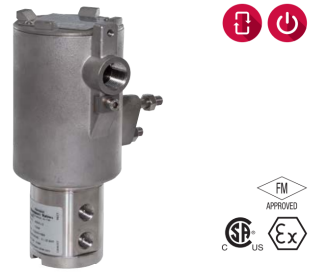
		SOLENOID VALVE				CLIENT DOC. :	VD-GPIC-MA-3029-3029-0038
		NO.	BY	APP	DATE	DESCRIPTION	
CLIENT P.O. NO.:		0	SES	IES	09/14/25	FOR APPROVAL	
PROJECT:							
JOB NO.:							
SERVICE:							
GENERAL	0	Item No.	A				
	1	Tag No.	LOAD	XY-61112	&	XY-61122	
		UNLOAD	XY-61111	&	XY-61121		
	2	Service	AIR				
	3	Line No. / Vessel No.	COMPRESSOR LOADING / UNLOADING				
4	Valve No.	DIRV-61111 DIRV-61111					
VALVE BODY	5	Type	3 WAY DIRECT ACTING w/ QUICK EXHAUST				
	6	Size - Body / Port	1/4" / 3				
	7	Rating & Type Connection	NPT				
	8	Material - Body	316 STAINLESS STEEL				
	9	Material - Disc (Trim)	BUNA (HIGH NITRILE)				
	10	Material-Diaphragm / Coil	EPOXY MOLDED				
	11	Operation - Direct/Pilot	DIRECT				
	12	Packless or Type Packed	----				
	13	Manual Reset Lever	----				
	14	Manual Operator(override)	INCLUDED				
	15						
16							
WHEN DE-ENERGIZE	17	2-Ways Valve Opens/Close	---				
	18	3-Way (NOTE 10)	YES				
	19	Vent Port Opens/Close	OPENS				
	20	Pressure Port Opens/Close	CLOSES				
	21	4-Way	----				
	22	Pressure to Cyl. 1/ Cyl. 2	----				
	23	Exh. from Cyl. 1/ Cyl. 2	----				
	24						
SOLENOID	25						
	26	Enclosure	IEC-79, Eex(d) IIC-T6 IP66 (NEMA-4X)				
	27	Voltage/Hz	24 VDC (LOW POWER OPERATOR)				
	28	Style of Coil	CL. "H" HERMETICALLY SEALED HIGH TEMP.				
	29	Single or Double Coil	SINGLE				
	30	Area Classification	IEC-79, ZONE 2, GROUP IIB, T3				
	31	Cable Entry	M20 x 1.5 mm				
SERVICE CONDITION	32	Fluid	AIR				
	33	Qty., Max	8	SCFM	12.7	S M3/HR	
	34	Operating Differential Min/Max	10	/ 15	PSID	0.7 / 1.03	BarD
	35	Allow. Differential Min/Max	20	/ 150	PSID	1.4 / 10.3	BarD
	36	Temperature Norm/Max	70	/ 100	°F	21 / 37.8	°C
	37	Operating Specific Gravity	1.0				
	38	Operating Viscosity	----				
	39	Required Cv	0.200				
	40	Valve Cv / Orifice	0.8 /				
	41						
	42	Agency Approval	ATEX				
	43						
	44						
	45	Manufacturer	ASCO				
46	Model No.	WSNFET8327B302MS 24VDC				MOUNTING BRACKET NO.:	C133441
47	QTY	4					
NOTES:	1	SYSTEM DESIGN PRESSURE & TEMPERATURE: 150 PSIG 10 BarG @ 300 °F 149 °C					
	2						
	3	INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT					
	4	CALIBRATION CERTIFICATE		<input type="checkbox"/>	REQUIRED	<input checked="" type="checkbox"/>	NOT REQUIRED
	5	CERTIFICATE OF COMPLIANCE		<input checked="" type="checkbox"/>	REQUIRED	<input type="checkbox"/>	NOT REQUIRED
	6	HARD COPY OF IEC-79, EEXD IIC-T6 CERTIFICATE		<input checked="" type="checkbox"/>	REQUIRED	<input type="checkbox"/>	NOT REQUIRED
	7	AREA CLASSIFICATION: IEC-79, ZONE 2, GROUP IIB, T3					
	8	MANUFACTURER CALCULATION / SIZING SHEET		<input type="checkbox"/>	REQUIRED	<input checked="" type="checkbox"/>	NOT REQUIRED
	9	STAINLESS STEEL NAMEPLATE (316)		<input checked="" type="checkbox"/>	REQUIRED	<input type="checkbox"/>	NOT REQUIRED
	10	COILS SHALL BE FITTED WITH SURGE SUPPRESSION DIODES.					
	11	SOLENOID VALVE POWER CONSUMPTION SHALL BE LESS THAN 10 WATTS.					
	12	BUG SCREENS SHALL BE INSTALLED ON EXHAUST					
	13	LEADS TO BE TERMINATED IN A CONDUIT BOX SUITABLE FOR AREA CLASSIFICATION.					
	14	ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT					
	15	INDIVIDUAL PART WEIGHT MUST BE CERTIFIED					

		SOLENOID VALVE (CAPACITY CONTROL)				CLIENT DOC. :	VD-GPIC-MA-3029-3029-0038
		NO.	BY	APP	DATE	DESCRIPTION	
CLIENT P.O. NO.:		0	SES	IES	09/14/25	FOR APPROVAL	
PROJECT:							
JOB NO.:							
SERVICE:							
GENERAL	0	Item No.	A				
	1	Tag No.	XV-61151 XV-61152				
	2	Service	OIL				
	3	Line No. / Vessel No.	OIL RECOVERY SYSTEM				
	4	Valve No.	N/A				
VALVE BODY	5	Type (NOTE 16)	2 WAY DIRECT ACTING w/ QUICK EXHAUST				
	6	Size - Body / Port	1/2" / 2				
	7	Rating & Type Connection	NPT				
	8	Material - Body	316 STAINLESS STEEL				
	9	Material - Disc (Trim)	VITON				
	10	Material-Diaphragm / Coil	EPOXY MOLDED				
	11	Operation - Direct/Pilot	DIRECT				
	12	Packless or Type Packed	----				
	13	Manual Reset Lever	----				
	14	Manual Operator(override)	INCLUDED				
	15						
16							
WHEN DE- ENERGIZE	17	2-Ways Valve Opens/Close	YES				
	18	3-Way (NOTE 10)	NO				
	19	Vent Port Opens/Close	N/A				
	20	Pressure Port Opens/Close	CLOSES				
	21	4-Way	----				
	22	Pressure to Cyl. 1/ Cyl. 2	----				
	23	Exh. from Cyl. 1/ Cyl. 2	----				
	24						
SOLENOID	26	Enclosure	IEC-79, Eex(d) IIC-T6 IP66 (NEMA-4X)				
	27	Voltage/Hz	24 VDC (LOW POWER OPERATOR)				
	28	Style of Coil	CL. "H" HERMETICALLY SEALED HIGH TEMP.				
	29	Single or Double Coil	SINGLE				
	30	Area Classification	IEC-79, ZONE 2, GROUP IIB, T3				
	31	Cable Entry	M20 x 1.5 mm				
SERVICE CONDITION	32	Fluid	OIL (PAG) / PROPYLENE				
	33	Qty., Max	5	GPM	19	LPM	
	34	Operating Differential Min/Max	1	/ 5	PSID	0.1 / 0.345	BarD
	35	Allow. Differential Min/Max	5	/ 290	PSID	0.3 / 20	BarD
	36	Temperature Norm/Max	-12.4	/ 145	°F	-25 / 62.78	°C
	37	Operating Specific Gravity	0.96				
	38	Operating Viscosity	----				
	39	Required Cv	2.191				
	40	Valve Cv / Orifice	3.80				
	41						
	42	Agency Approval	ATEX				
	43						
	44						
	45	Manufacturer					
46	Model No.						
47	QTY	2					
NOTES:	1	SYSTEM DESIGN PRESSURE & TEMPERATURE: FV to 362.5 PSIG 25.0 BarG @ 250 °F 121 °C					
	2						
	3	INSTRUMENT SHALL BE SUITABLE FOR MARINE, SALT LADEN, CORROSIVE ENVIRONMENT					
	4	CALIBRATION CERTIFICATE		<input type="checkbox"/>	REQUIRED	<input checked="" type="checkbox"/>	NOT REQUIRED
	5	CERTIFICATE OF COMPLIANCE		<input checked="" type="checkbox"/>	REQUIRED	<input type="checkbox"/>	NOT REQUIRED
	6	HARD COPY OF IEC-79, EEXD IIC-T6 CERTIFICATE		<input checked="" type="checkbox"/>	REQUIRED	<input type="checkbox"/>	NOT REQUIRED
	7	AREA CLASSIFICATION: IEC-79, ZONE 2, GROUP IIB, T3					
	8	MANUFACTURER CALCULATION / SIZING SHEET		<input type="checkbox"/>	REQUIRED	<input checked="" type="checkbox"/>	NOT REQUIRED
	9	STAINLESS STEEL NAMEPLATE (316)		<input checked="" type="checkbox"/>	REQUIRED	<input type="checkbox"/>	NOT REQUIRED
	10	COILS SHALL BE FITTED WITH SURGE SUPPRESSION DIODES.					
	11	SOLENOID VALVE POWER CONSUMPTION SHALL BE LESS LESS THAN 10 WATTS.					
	12	LEADS TO BE TERMINATED IN A CONDUIT BOX SUITABLE FOR AREA CLASSIFICATION.					
	13	ALL DOCUMENTS TO BE SUBMITTED IN BOTH HARD AND ELECTRONIC FORMAT					
	14	INDIVIDUAL PART WEIGHT MUST BE CERTIFIED					
	15	3-WAY VALVES MAY BE USED BY PLUGGING BLEED PORT.					

	SOLENOID VALVE				CLIENT DOC. :	VD-GPIC-MA-3029-3029-0038
	(CAPACITY CONTROL)					
	NO.	BY	APP	DATE	DESCRIPTION	
CLIENT	0	SES	IES	09/14/25	FOR APPROVAL	
P.O. NO.:						
PROJECT:						
JOB NO.:						
SERVICE:						

IMI MAXSEAL **ICO4S 2/2, 3/2 or 5/2 poppet valves**
electromagnetic actuated, directly controlled

- > Port size: 1/4" ... 3/4" (ISO G/NPT) or manifold version
- > Direct acting solenoid valve for the control of hydraulic or pneumatic equipment
- > High flow
- > Up to 414 bar inlet pressure
- > Reliable and long life, ideal for a one time installation
- > Certifications: ATEX, CSA, CSA, TR CU, NEPSI, KOSHA, IECEX, FM, CRN, CCOE IN-METRO
- > Environmental protection; NEMA 4X, IP66/X8



Technical features

Medium:
Hydraulic and pneumatic – customer to specify and confirm compatibility

Operation:
Direct solenoid operated poppet valves

Mounting position:
Solenoid vertical

Flow:
0,8 Cv (11,5 Kv) ... 5,0 Cv (72,0 Kv)

Port size:
1/4 NPT, 1/2 NPT, G1/4, G1/2 or manifold version

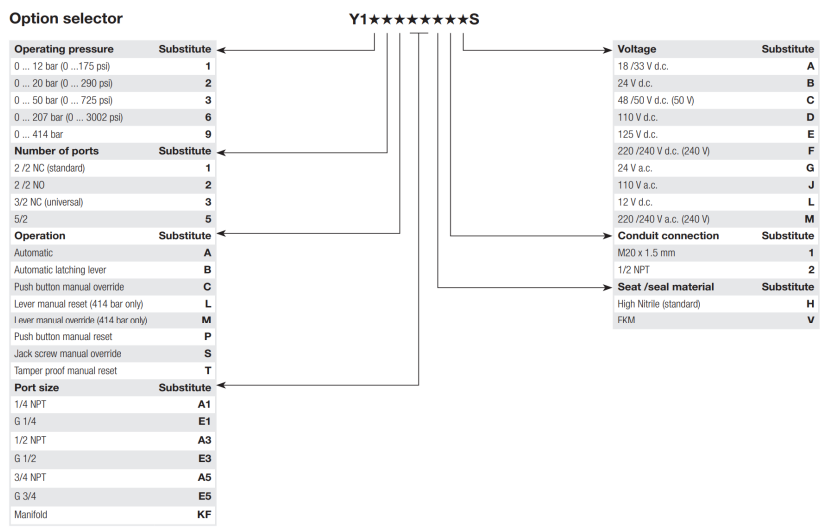
Operating pressure:
0 ... 20 bar (0 ... 290 psi)
0 ... 50 bar (0 ... 725 psi)
0 ... 207 bar (0 ... 3002 psi)
0 ... 414 bar (0 ... 6004 psi)

Temperature:
Media: -20 ... +90°C (-4 ... +194°F)
Options to -60°C (-76°F) available on request

Ambient:
See table on page 2
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

Materials:
Valve body, trim, coil housing and top cover: stainless steel 1.4404 (316 L)
Other trim and body materials available
O-rings seats & seals: high NBR
Other seal materials available on request

IMI MAXSEAL **ICO4S 2/2, 3/2 or 5/2 poppet valves**
electromagnetic actuated, directly controlled



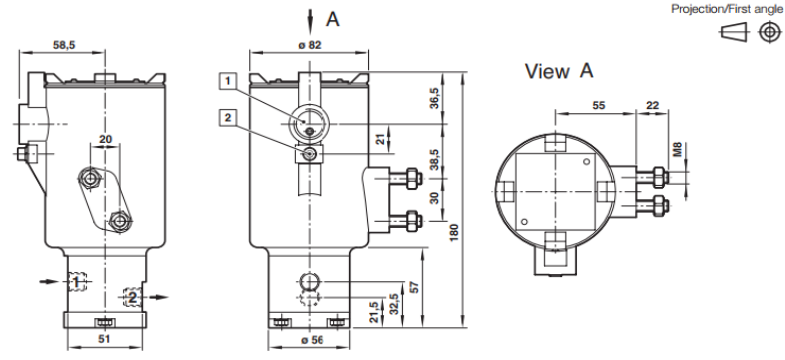
	SOLENOID VALVE (CAPACITY CONTROL)				CLIENT DOC. : VD-GPIC-MA-3029-3029-0038
	NO.	BY	APP	DATE	DESCRIPTION
	0	SES	IES	09/14/25	FOR APPROVAL
CLIENT					
P.O. NO.:					
PROJECT:					
JOB NO.:					
SERVICE:					

ICO4S 2/2, 3/2 or 5/2 poppet valves
electromagnetic actuated, directly controlled

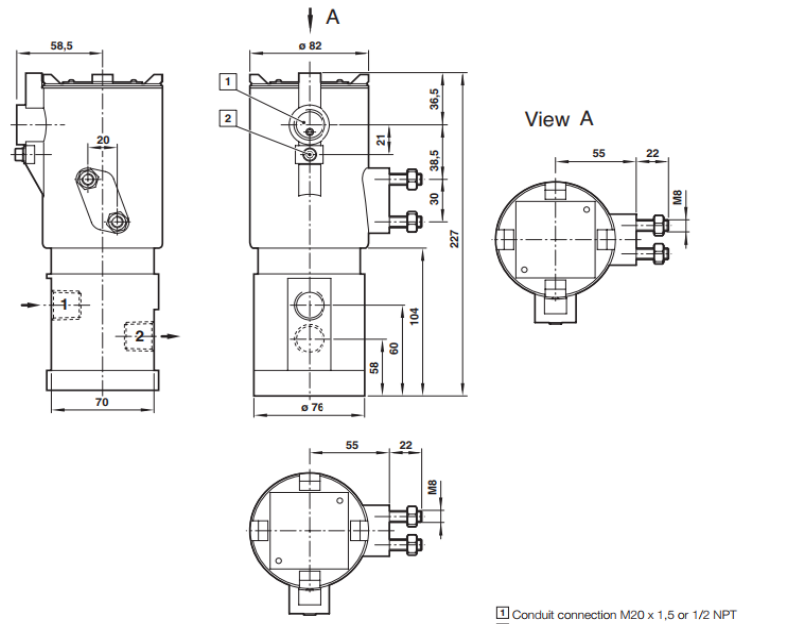


Dimensions

1



2



1 Conduit connection M20 x 1,5 or 1/2 NPT
2 External earth