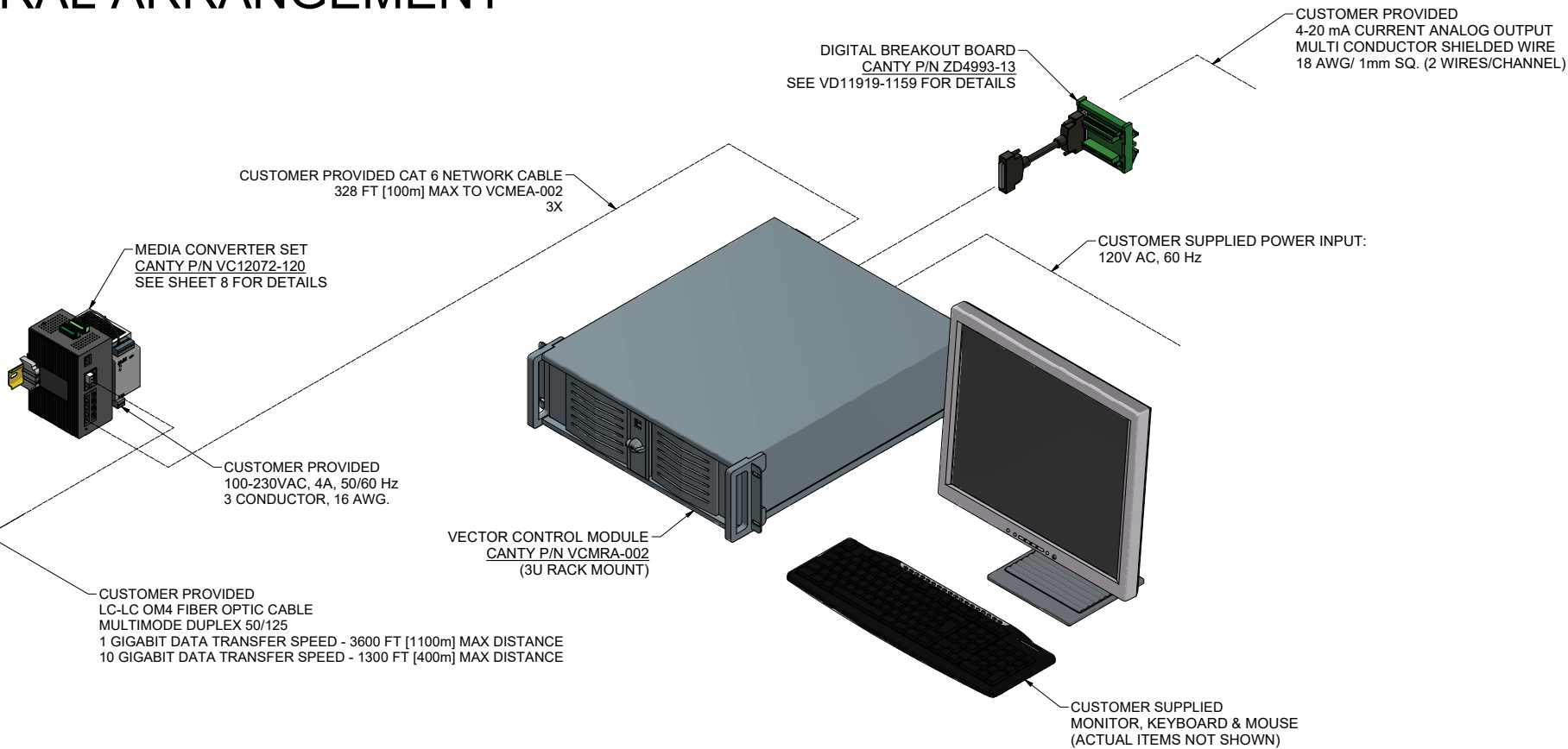
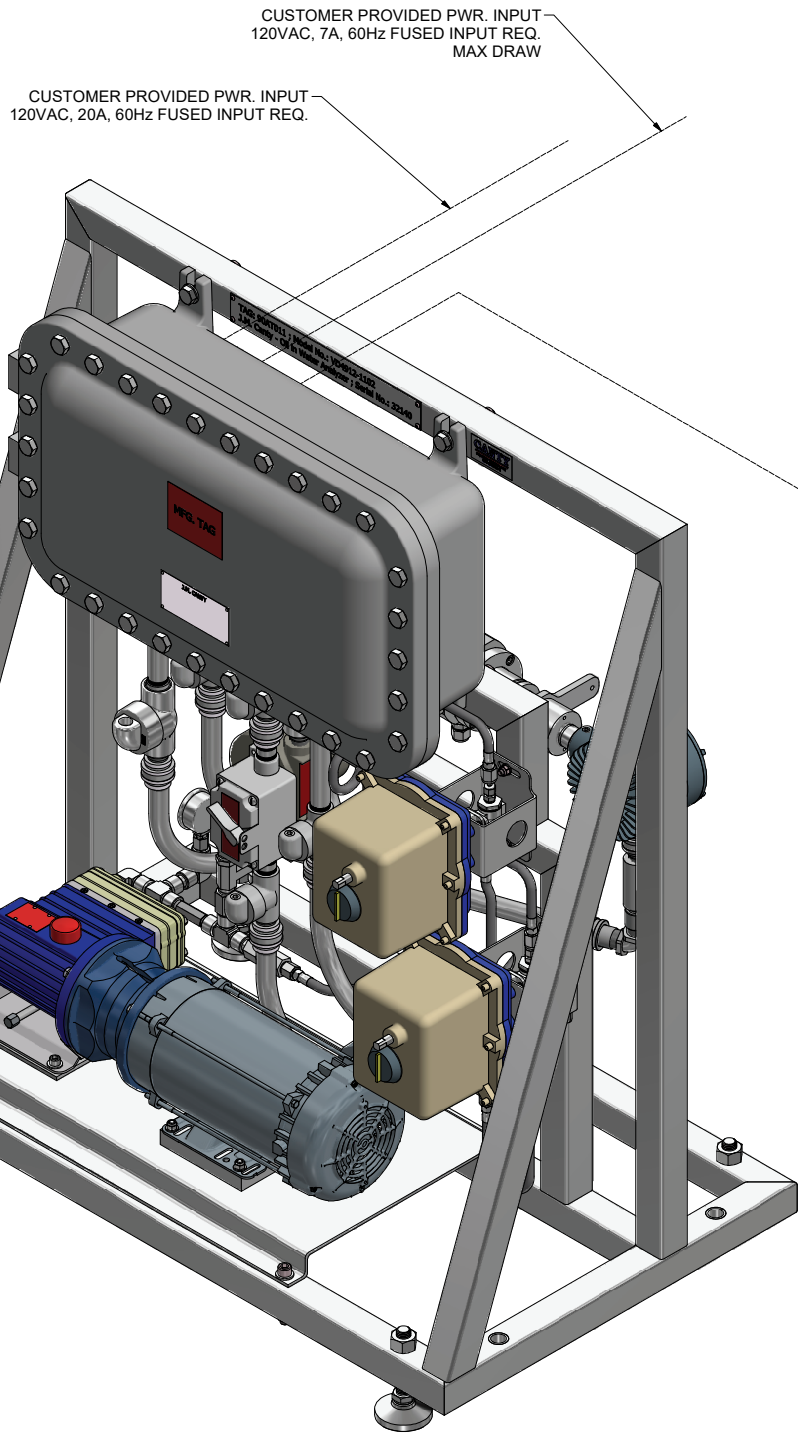


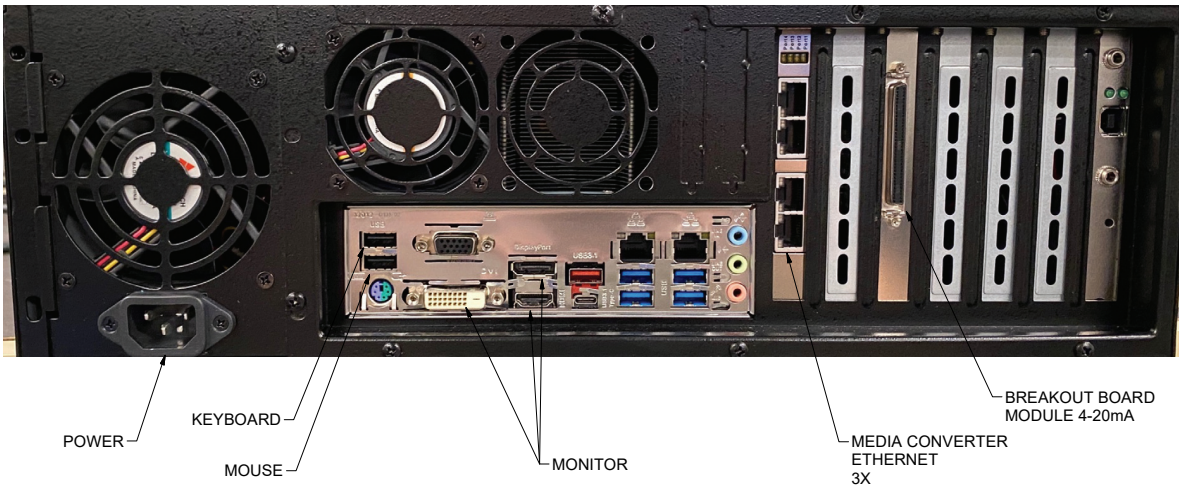
HAZARDOUS AREA

SHEET 1 OF 8
GENERAL ARRANGEMENT

SAFE AREA



DETAIL 'A': VCM MODULE CONNECTIONS

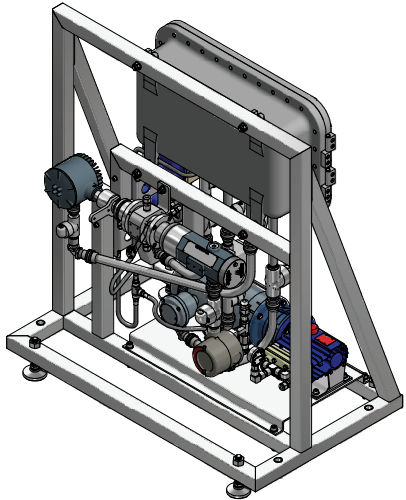


- NOTES:
1. SYSTEM USES CANTYVISION SOFTWARE TO MEASURE OIL IN WATER.
 2. SYSTEM REQUIRES CUSTOMER SUPPLIED 120V AC, 60 Hz, 20A & 120V AC, 60 Hz 7A TO VD11989-350 (SEE SHEET 6).
 3. MAIN INPUT POWER IS SUPPLIED BY CUSTOMER AND MUST BE COMPLETED IN ACCORDANCE WITH APPLICABLE REGULATIONS.
 4. ALL INTERCONNECTING CONDUIT BETWEEN THE SKID MOUNTED COMPONENTS SUPPLIED BY CANTY, AND FITTED WITH EXP FITTINGS AND SEALS.
 5. CONTROL / DIAGNOSTIC SIGNALS OUTPUT PROCESSING ENCLOSURE VIA MODBUS TCP/IP AND / OR 4-20mA.
 6. SYSTEM RATED TO 150 PSI [10 bar] @ 200°F [95°C].
 7. SYSTEM WEIGHT ~ 600 LBS [272 Kg].
 8. SEE ADDITIONAL SHEETS FOR SPECIFIC TECHNICAL DETAILS OF EACH SKID MOUNTED COMPONENT.
 9. FRAME TUBING IS 2" X 2" SQUARE WITH 1/8" WALL THICKNESS.

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		RFM	04-May-21						
		APPROVAL	DATE						
		RFM	04-May-21						
		ENGINEERING ANALYSIS	DATE						
CURRENT									
MFG. APPROVAL	DATE								
PENDING									
QUALITY CONTROL	DATE								
VJS									

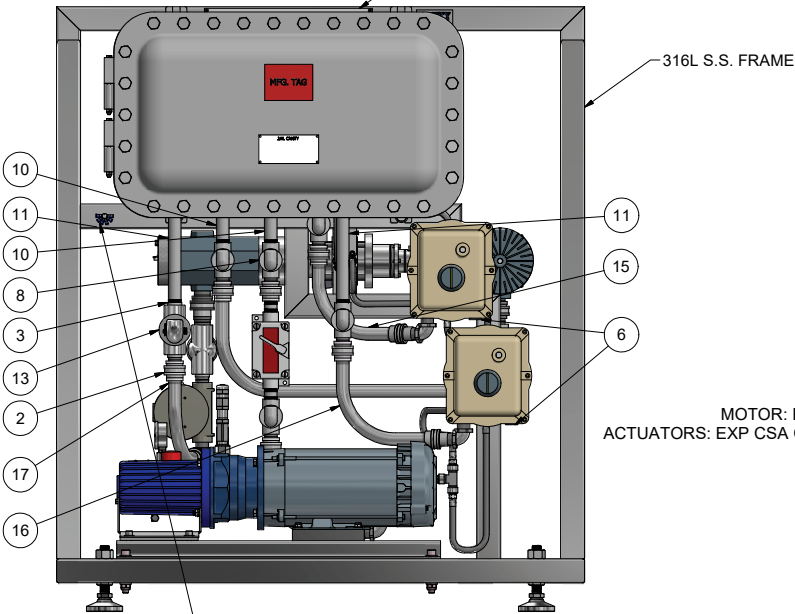
SHEET 2 OF 8
SKID DETAILS
VD4912-1102

MAIN COMPONENTS LIST	
PART NUMBER	PART DESCRIPTION
VD4912-1103	INFLOW OIL IN WATER ANALYSER
SD4952-164	ANALYZER CLEANING SYSTEM
VD11989-350	PSU / CONTROLLER ELECTRICAL ENCLOSURE
VCMRA-002	VCM (VECTOR CONTROL MODULE)
S260-286	115V ACTUATOR



ISO VIEW
SCALE 1 / 12

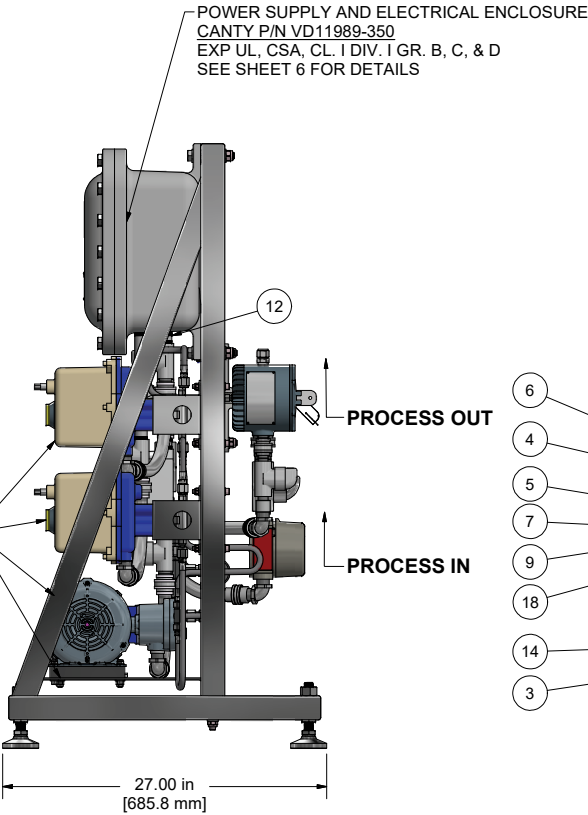
INCLUDES A 316L S.S. LABEL
CUSTOMER TO SUPPLY TAG NUMBER:
SEE SHEET 7 FOR DETAILS



M6 EARTHING POINT FOR
CANTY EQUIPMENT

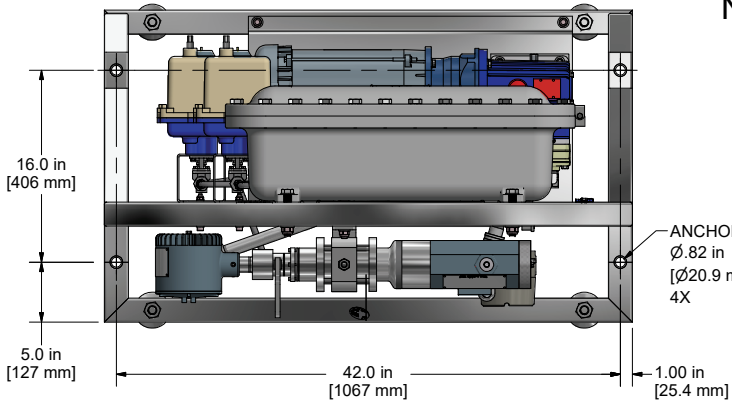
BACK VIEW
SCALE 1 / 8

ANALYZER CLEANING SYSTEM
MOTOR: EXP, CSA, CL. I DIV. 1 GR. C & D, CL. 2 GR. F & G
ACTUATORS: EXP CSA CL. I DIV. I GR. C, & D, CL. I DIV. II, GR. E, F, & G.
(SEE SHEET 4 & 5)



LEFT SIDE VIEW
SCALE 1 / 8

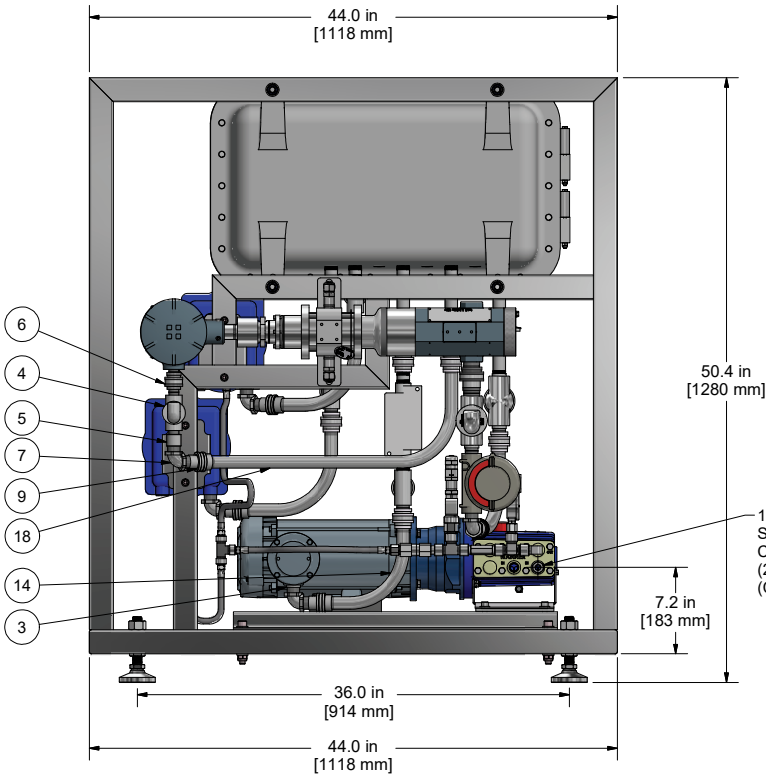
CONDUIT, SEALS, & FITTINGS			
ITEM	QTY	PART NUMBER	TITLE
1	1	L496-3	TEFLON PTFE, PIPE DOPE, 50ML TUBE, ANAEROBIC #565
2	6	V150-113	UNION, AL. 3/4NPT MALE x 3/4NPT FEMALE, CL.1, GR. A,B,C,D.
3	3	V150-115	BUSHING, REDUCING, AL. 1"MNPT x 3/4FNPT, CL.1, GR. 2C,2B,2A
4	1	V150-116	SEAL FITTING, EYS, AL. 1/2NPT MALE x FEMALE, CL.1, GR. C,D
5	1	V150-140	ADAPTER, UP, AL. 1/2"MNPT x 3/4FNPT, CL.1, GR. A,B,C,D
6	1	V150-141	UNION, AL. 1/2NPT MALE x 1/2NPT FEMALE, CL.1, GR. A,B,C,D.
7	5	V150-204	ELBOW, 90, MALE/MALE, AL., 3/4-14 NPT, EXP. CL.1,GR.C,D
8	5	V150-226	SEAL FITTING, EYS, AL. 3/4NPT FEMALE x FEMALE, CL.1, GR. C,D
9	5	V150-227	UNION, AL. 3/4NPT FEMALE x 3/4NPT FEMALE, CL.1, GR. A,B,C,D.
10	2	V150-228	PIPE, AL., 3/4-14 NPT, 5" LONG
11	2	V150-229	PIPE, AL., 3/4-14 NPT, 10" LONG
12	3	V150-232	PIPE, AL., 3/4-14 NPT, 2" LONG
13	1	V150-234	SEAL FITTING, EYS, AL. 1"NPT FEMALE x FEMALE, CL.1, GR. C,D
14	1	VC12071-310	AL./ANOD., ELBOW, 90, 3/4-14 NPT, EXP, 7.025" X 7.275"
15	1	VC12071-320	AL./ANOD., ELBOW, 90, 3/4-14 NPT, EXP, 6.805" X 7.525"
16	1	VC12071-330	AL./ANOD., ELBOW, 90, 3/4-14 NPT, EXP, 7.585" X 8.025"
17	1	VC12071-340	AL./ANOD., ELBOW, 90, 3/4-14 NPT, EXP, 6.275" X 7.525"
18	1	VC12071-350	AL./ANOD., ELBOW, 90, 3/4-14 NPT, EXP, 8.650" X 22.400"



TOP VIEW
SCALE 1 / 8

NO FREEZE PROTECTION INCLUDED.
TO BE DONE BY CUSTOMER.

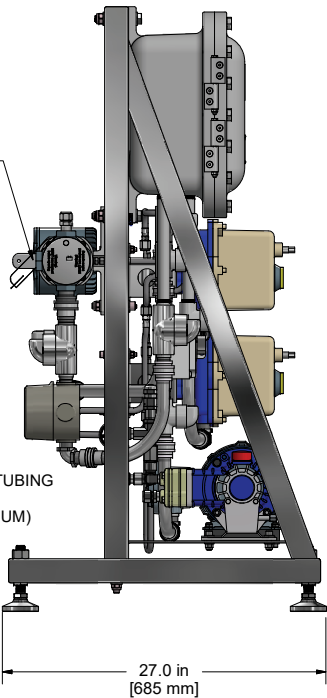
ANCHOR BOLT HOLES
Ø.82 in THRU
[Ø20.9 mm]
4X



FRONT VIEW
SCALE 1 / 8

INFLOW CAMERA
CANTY P/N VD4912-1103
EXP FM CL. I DIV. I GR. B, C, & D
SEE SHEET 3 FOR DETAILS

1/2" TUBE FITTING
SPRAY RING FEED INLET
CUSTOMER TO SUPPLY 1/2" OD S.S. TUBING
(250 PSI MAX INLET)
(CONSTANT FULL FLOW 2 GPM MINIMUM)



RIGHT SIDE VIEW
SCALE 1 / 8

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DRAWN BY RFM	DATE 04-May-21
APPROVAL RFM	DATE 04-May-21
ENGINEERING ANALYSIS CURRENT	DATE
MFG. APPROVAL PENDING	DATE
QUALITY CONTROL VJS	DATE

J.M. CANTY INC.
6100 DONNER RD.
BUFFALO, N.Y. 14094
U.S.A.

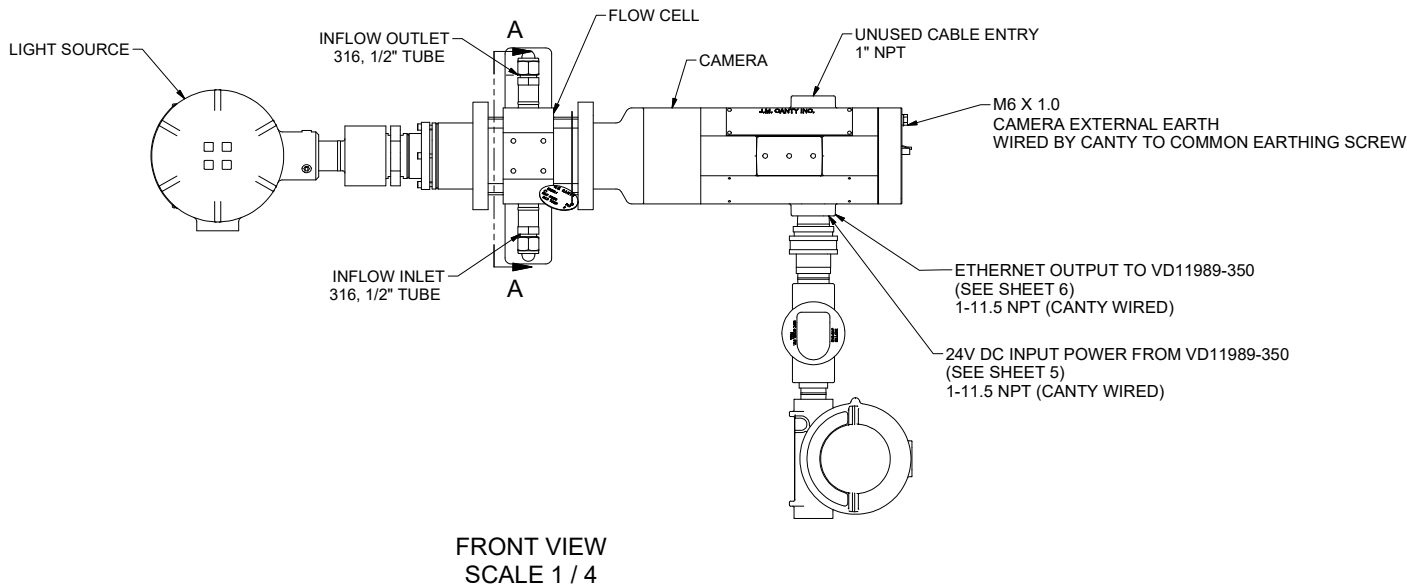
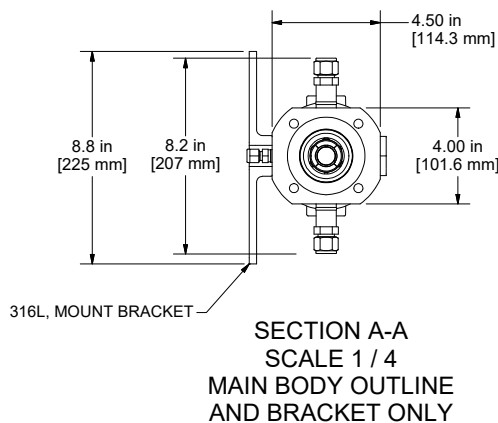
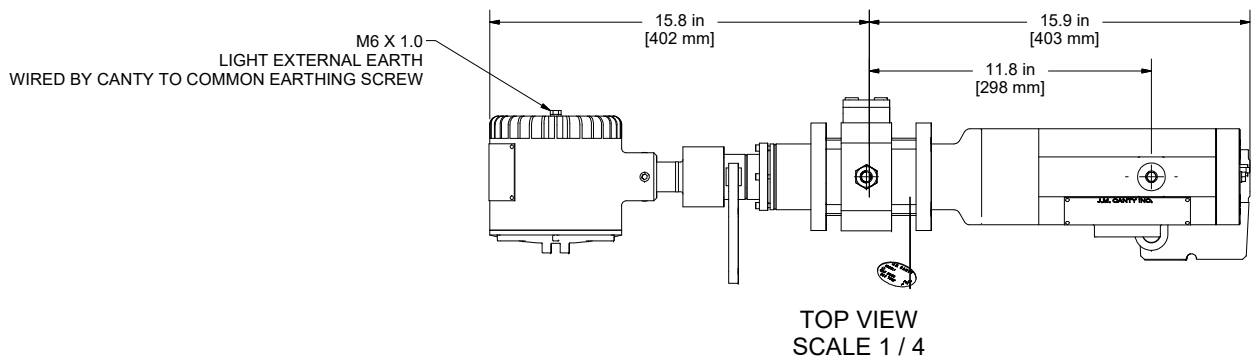
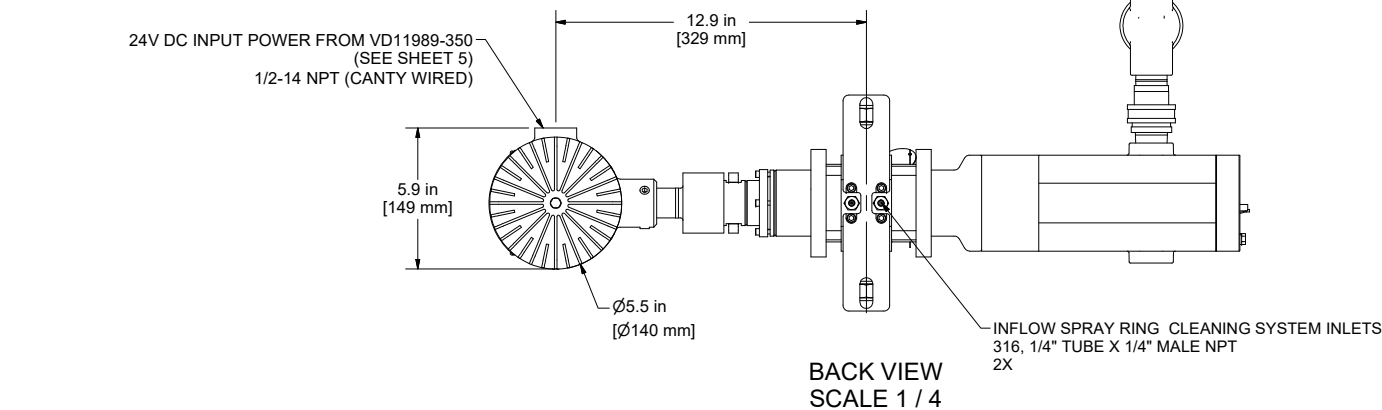
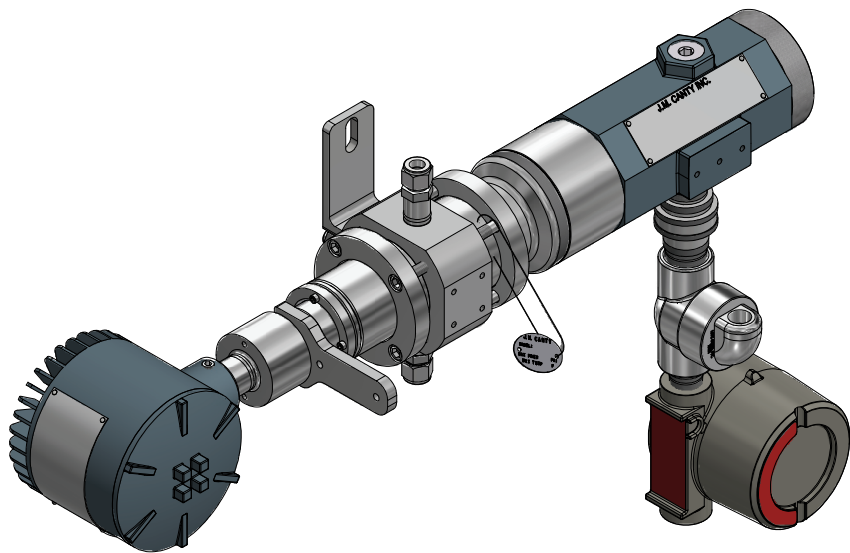
CANTY
WWW.JMCANTY.COM

J.M. CANTY INTL. LTD.
BALLYCOOLIN BUS. PK.
BLANCHARDSTOWN
DUBLIN 15, IRELAND

TITLE
LAYOUT DRAWING, OIL IN WATER EXPLOSION
PFOOF SKID

REVISION 0	FILE NAME VD12071-111
SCALE AS NOTED	SIZE D
SHEET 2 OF 8	

SHEET 3 OF 8
VD4912-1103
INFLOW OIL IN WATER
ANALYSER



NOTES:

1. SYSTEM RATED TO 150 PSI [10 bar] @ 200°F [95°C].
2. INFLOW IS RATED EXP, FM, CL. I DIV. I GR. B, C, & D, CL. I DIV. II, GR. E, F, & G.
3. FLOW RATE THROUGH 1/2" INFLOW: MIN 3 GPM, MAX 7 GPM.
4. INFLOW PRESSURE DROP IS 2 PSI.
5. SYSTEM WETTED MATERIALS: 316L S.S., ALLOY C276, BORO PLUS GLASS, AND VITON SEALS.
6. NON WETTED PROCESS ENCLOSURES ARE ALUMINUM WITH AN ANODIZED AND PAINTED FINISH. ENCLOSURE O-RINGS ARE BUNA-N OR SILICONE.
7. DIMENSIONS LISTED ARE THEORETICAL AND MAY VARY SLIGHTLY DUE TO MANUFACTURING TOLERANCES AND ASSEMBLY POSITION OF ADJUSTABLE PARTS.

NOTICE

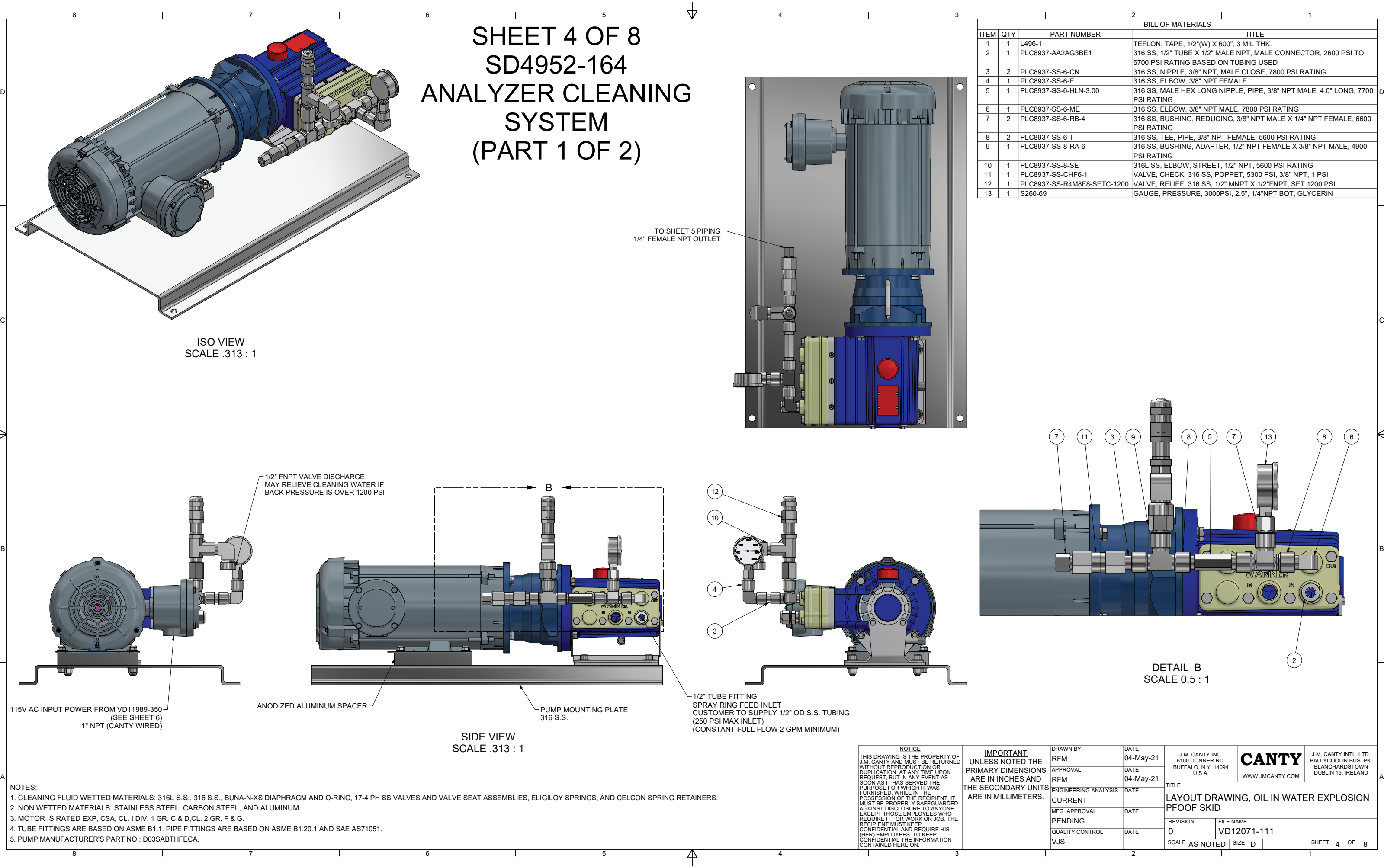
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APPROVAL	RFM	DATE	04-May-21
ENGINEERING ANALYSIS	CURRENT	DATE	
MFG. APPROVAL	PENDING	DATE	
QUALITY CONTROL	VJS	DATE	

J.M. CANTY INC. 6100 DONNER RD. BUFFALO, N.Y. 14094 U.S.A.	CANTY WWW.JMCANTY.COM	J.M. CANTY INTL. LTD. BALLYCOOLIN BUS. PK. BLANCHARDSTOWN DUBLIN 15, IRELAND
TITLE		
LAYOUT DRAWING, OIL IN WATER EXPLOSION PFOOF SKID		
REVISION	FILE NAME	
0	VD12071-111	
SCALE	AS NOTED	SIZE D
SHEET 3		OF 8



SHEET 4 OF 8
SD4952-164
ANALYZER CLEANING
SYSTEM
(PART 1 OF 2)

BILL OF MATERIALS			
ITEM	QTY	PART NUMBER	TITLE
1	1	L496-1	TEFLON, TAPE, 1/2"(W) X 600", 3 MIL THK.
2	1	PLC8937-AA2AG3BE1	316 SS, 1/2" TUBE X 1/2" MALE NPT, MALE CONNECTOR, 2600 PSI TO 6700 PSI RATING BASED ON TUBING USED
3	2	PLC8937-SS-6-CN	316 SS, NIPPLE, 3/8" NPT, MALE CLOSE, 7800 PSI RATING
4	1	PLC8937-SS-6-E	316 SS, ELBOW, 3/8" NPT FEMALE
5	1	PLC8937-SS-6-HLN-3.00	316 SS, MALE HEX LONG NIPPLE, PIPE, 3/8" NPT MALE, 4.0" LONG, 7700 PSI RATING
6	1	PLC8937-SS-6-ME	316 SS, ELBOW, 3/8" NPT MALE, 7800 PSI RATING
7	2	PLC8937-SS-6-RB-4	316 SS, BUSHING, REDUCING, 3/8" NPT MALE X 1/4" NPT FEMALE, 6600 PSI RATING
8	2	PLC8937-SS-6-T	316 SS, TEE, PIPE, 3/8" NPT FEMALE, 5600 PSI RATING
9	1	PLC8937-SS-8-RA-6	316 SS, BUSHING, ADAPTER, 1/2" NPT FEMALE X 3/8" NPT MALE, 4900 PSI RATING
10	1	PLC8937-SS-8-SE	316L SS, ELBOW, STREET, 1/2" NPT, 5600 PSI RATING
11	1	PLC8937-SS-CHF6-1	VALVE, CHECK, 316 SS, POPPET, 5300 PSI, 3/8" NPT, 1 PSI
12	1	PLC8937-SS-R4M8F8-SETC-1200	VALVE, RELIEF, 316 SS, 1/2" MNPT X 1/2"FNPT, SET 1200 PSI
13	1	S260-69	GAUGE, PRESSURE, 3000PSI, 2.5", 1/4"NPT BOT, GLYCERIN

ISO VIEW
SCALE .313 : 1

TO SHEET 5 PIPING
1/4" FEMALE NPT OUTLET

1/2" FNPT VALVE DISCHARGE
MAY RELIEVE CLEANING WATER IF
BACK PRESSURE IS OVER 1200 PSI

115V AC INPUT POWER FROM VD11989-350
(SEE SHEET 6)
1" NPT (CANTY WIRED)

ANODIZED ALUMINUM SPACER

PUMP MOUNTING PLATE
316 S.S.

SIDE VIEW
SCALE .313 : 1

1/2" TUBE FITTING
SPRAY RING FEED INLET
CUSTOMER TO SUPPLY 1/2" OD S.S. TUBING
(250 PSI MAX INLET)
(CONSTANT FULL FLOW 2 GPM MINIMUM)

DETAIL B
SCALE 0.5 : 1

- NOTES:
- CLEANING FLUID WETTED MATERIALS: 316L S.S., 316 S.S., BUNA-N-XS DIAPHRAGM AND O-RING, 17-4 PH SS VALVES AND VALVE SEAT ASSEMBLIES, ELIGILOY SPRINGS, AND CELCON SPRING RETAINERS.
 - NON WETTED MATERIALS: STAINLESS STEEL, CARBON STEEL, AND ALUMINUM.
 - MOTOR IS RATED EXP, CSA, CL. I DIV. 1 GR. C & D,CL. 2 GR. F & G.
 - TUBE FITTINGS ARE BASED ON ASME B1.1. PIPE FITTINGS ARE BASED ON ASME B1.20.1 AND SAE AS71051.
 - PUMP MANUFACTURER'S PART NO.: D03SABTHFECA.

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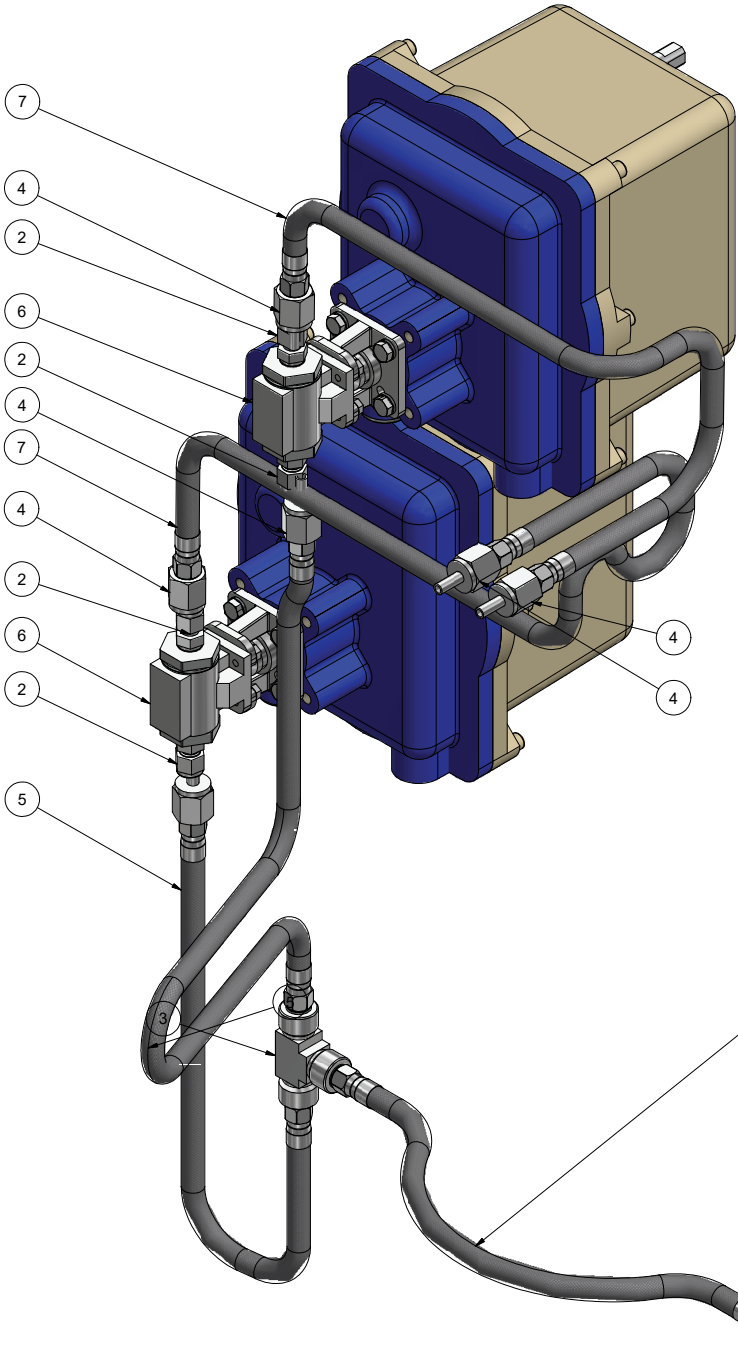
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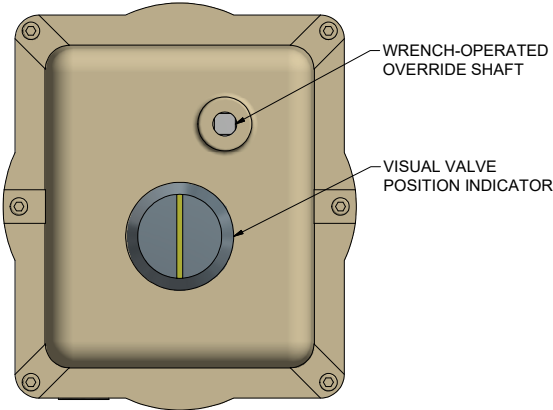
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TITLE LAYOUT DRAWING, OIL IN WATER EXPLOSION PFOOF SKID		
REVISION 0	FILE NAME VD12071-111	
SCALE AS NOTED	SIZE D	SHEET 4 OF 8

SHEET 5 OF 8
ANALYZER
CLEANING
SYSTEM
(PART 2 OF 2)

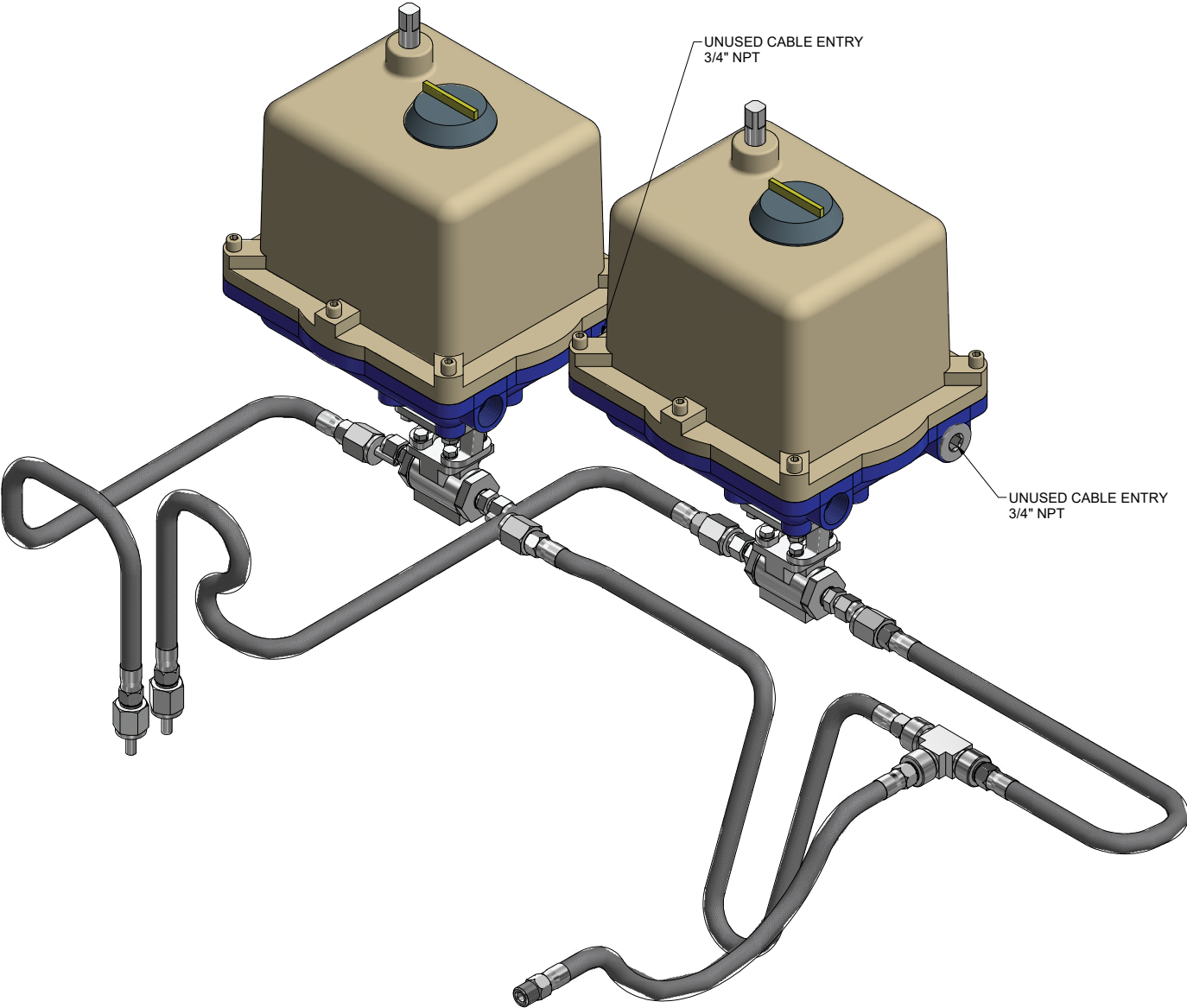
BILL OF MATERIALS			TITLE
ITEM	QTY	PART NUMBER	
1	1	L496-3	TEFLON PTFE, PIPE DOPE, 50ML TUBE, ANAEROBIC #565
2	4	PLC8937-AA2AD3BC1	316L SS, 1/4" TUBE X 1/4" MALE NPT, MALE CONNECTOR, 8000 PSI RATED
3	1	PLC8937-SS-4-T	316L SS, TEE, PIPE, 1/4" NPT FEMALE, 7200 PSI RATING
4	6	PLC8937-SS-4-TA-7-4	316 SS, ADAPTER, 1/4" NPT FEMALE TO 1/4" SWAGelok ADAPTER, 8000 PSI RATED
5	3	S260-268	HOSE, HIGH PRESSURE 1800 PSI, 1/4" 316L SS MALE NPT X 2, 18" [.45m] LENGTH
6	2	S260-286	VALVE, BALL, 1/4" NPT 316, WITH ACTUATOR, EXP. 115V, 1200 PSI IP66
7	2	S260-290	HOSE, HIGH PRESSURE 1800 PSI, 1/4" 316L SS MALE NPT X 2, 24" LENGTH



ISO VIEW 1
SCALE 1 / 2
VALVES, HOSE, AND FITTINGS ONLY



ACTUATOR
FRONT VIEW
SCALE 1 / 2

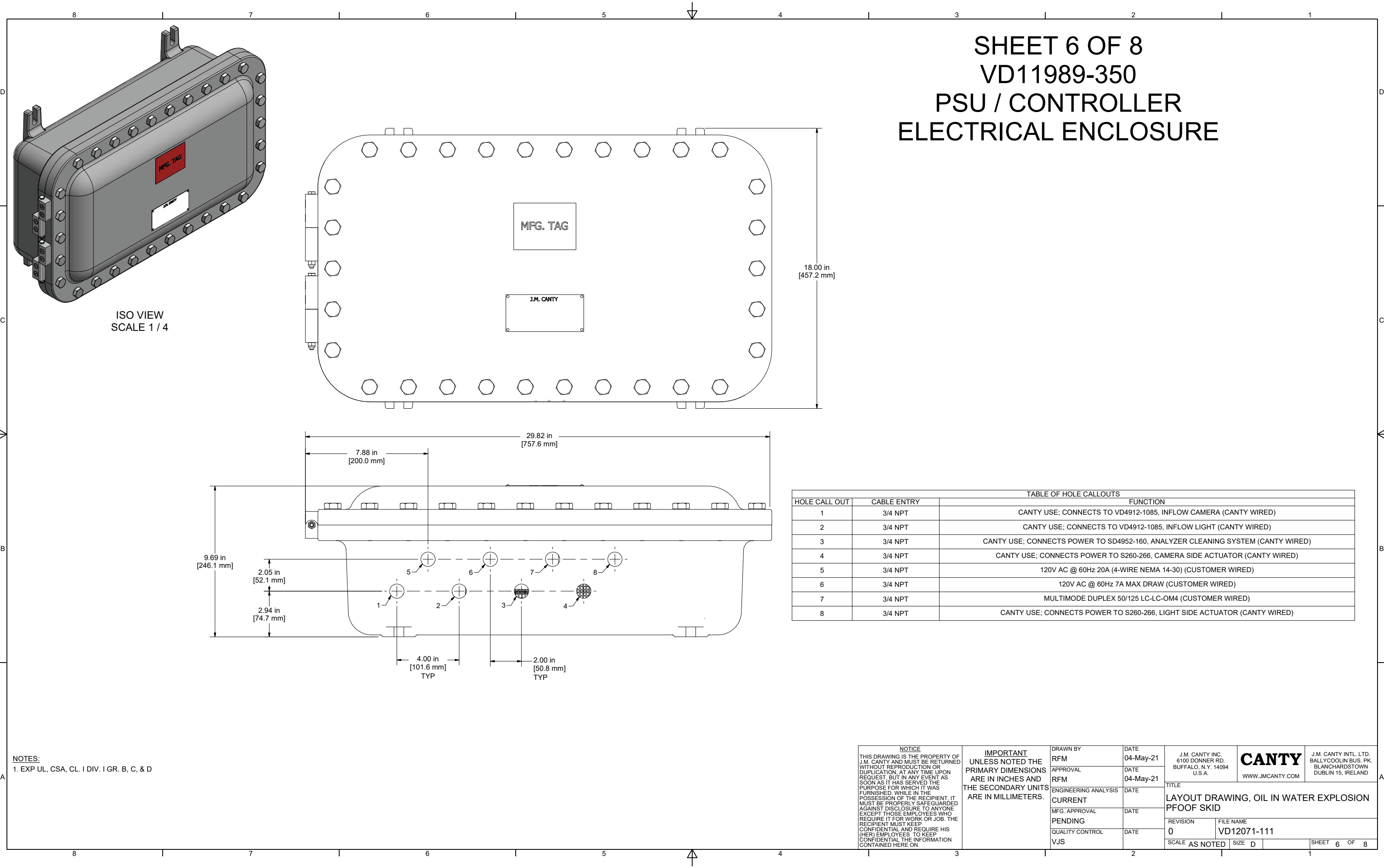


ISO VIEW 2
SCALE 1 / 2
VALVES, HOSE, AND FITTINGS ONLY

- NOTES:
- CLEANING FLUID WETTED MATERIALS: 316L S.S., 316 S.S..
 - NON WETTED MATERIALS: STAINLESS STEEL, CARBON STEEL, AND ALUMINUM.
 - ACTUATOR ARE RATED EXP CSA CL. I DIV. I GR. C, & D, CL. I DIV. II, GR. E, F, & G.
 - HIGH PRESSURE HOSE IS RATED FOR 1800 PSI, 316 S.S. MATERIAL, 304 S.S. BRAID, AND A 4.5" BEND RADIUS.
 - VALVE MANUFACTURER'S PART NO.: 1/4" 9FB3600XTB.
 - ACTUATOR MANUFACTURER'S PART NO.: VWX1501N115AC.

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		ENGINEERING ANALYSIS		DATE				
		CURRENT						
		MFG. APPROVAL		DATE				
		PENDING						
		QUALITY CONTROL		DATE				
		VJS						

TITLE	
LAYOUT DRAWING, OIL IN WATER EXPLOSION PFOOF SKID	
REVISION	FILE NAME
0	VD12071-111
SCALE AS NOTED	SIZE D
SHEET 5	OF 8



SHEET 6 OF 8
VD11989-350
PSU / CONTROLLER
ELECTRICAL ENCLOSURE

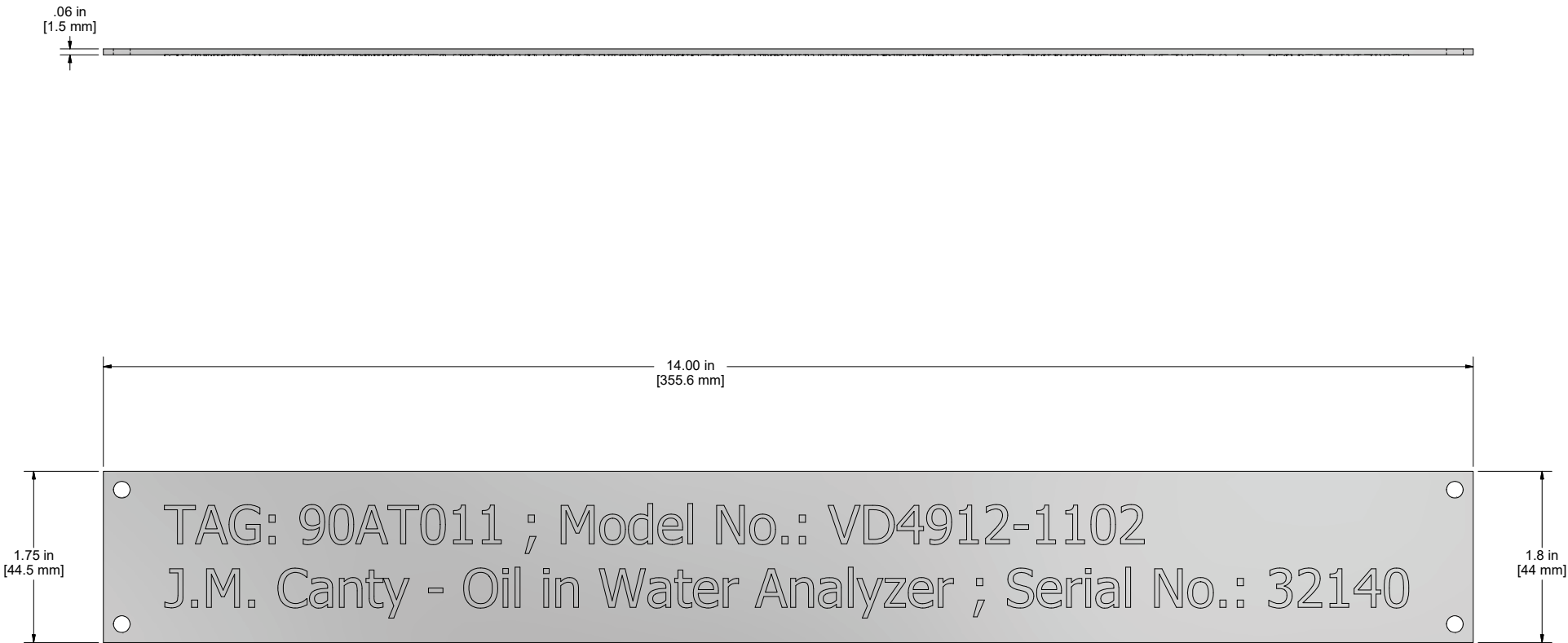
ISO VIEW
SCALE 1 / 4

TABLE OF HOLE CALLOUTS		
HOLE CALL OUT	CABLE ENTRY	FUNCTION
1	3/4 NPT	CANTY USE; CONNECTS TO VD4912-1085, INFLOW CAMERA (CANTY WIRED)
2	3/4 NPT	CANTY USE; CONNECTS TO VD4912-1085, INFLOW LIGHT (CANTY WIRED)
3	3/4 NPT	CANTY USE; CONNECTS POWER TO SD4952-160, ANALYZER CLEANING SYSTEM (CANTY WIRED)
4	3/4 NPT	CANTY USE; CONNECTS POWER TO S260-266, CAMERA SIDE ACTUATOR (CANTY WIRED)
5	3/4 NPT	120V AC @ 60Hz 20A (4-WIRE NEMA 14-30) (CUSTOMER WIRED)
6	3/4 NPT	120V AC @ 60Hz 7A MAX DRAW (CUSTOMER WIRED)
7	3/4 NPT	MULTIMODE DUPLEX 50/125 LC-LC-OM4 (CUSTOMER WIRED)
8	3/4 NPT	CANTY USE; CONNECTS POWER TO S260-266, LIGHT SIDE ACTUATOR (CANTY WIRED)

NOTES:
1. EXP UL, CSA, CL. I DIV. I GR. B, C, & D

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		RFM	04-May-21						
		APPROVAL	DATE						
		RFM	04-May-21						
		ENGINEERING ANALYSIS	DATE						
		CURRENT							
MFG. APPROVAL	DATE								
PENDING		REVISION		FILE NAME					
QUALITY CONTROL	DATE	0		VD12071-111					
VJS		SCALE AS NOTED		SIZE D		SHEET 6 OF 8			

SHEET 7 OF 8
NAMEPLATE



FRONT
SCALE 1.25 : 1

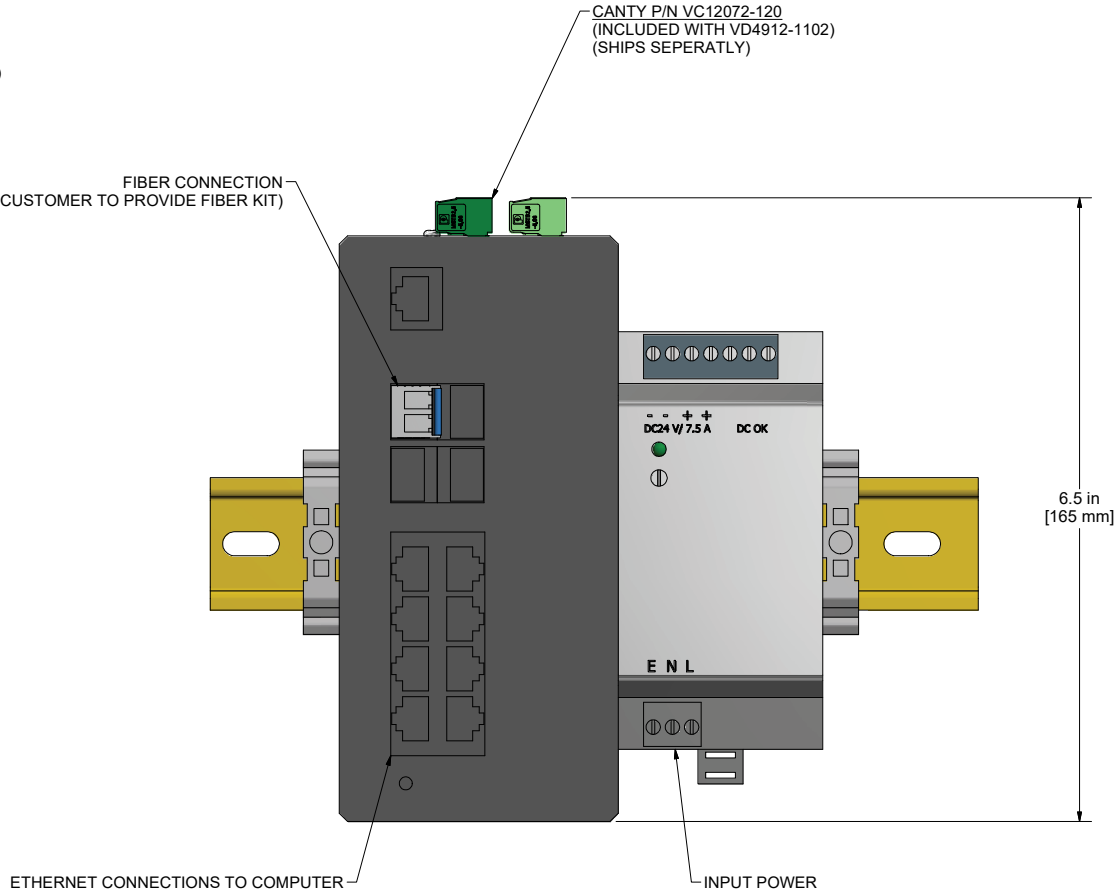
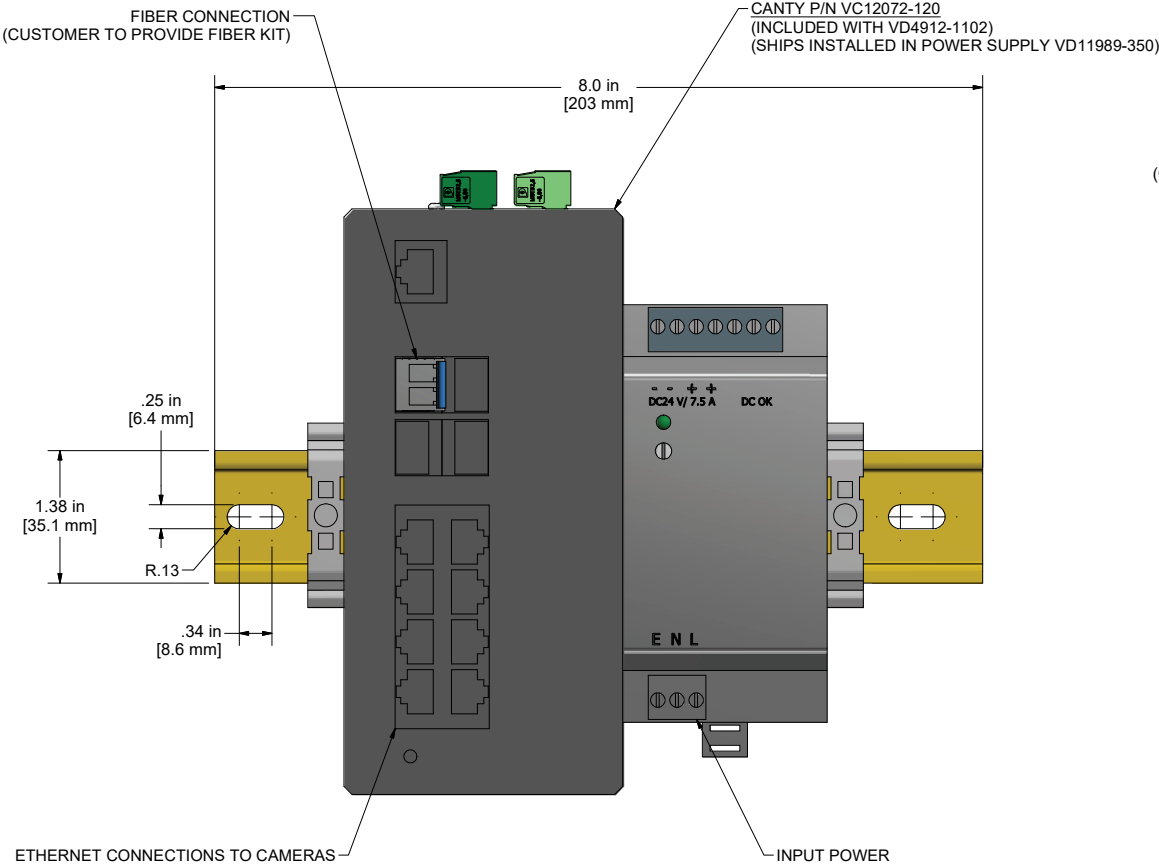
- NOTES:
- 1. MATERIAL: 316L S.S.
 - 2. ATTACHED WITH 18-8 S.S. SCREWS.
 - 3. TAG NUMBER AND SERIAL NUMBER TO BE SUPPLIED ON FINISHED UNIT.

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		RFM	04-May-21				
		APPROVAL	DATE				
		RFM	04-May-21				
		ENGINEERING ANALYSIS	DATE	LAYOUT DRAWING, OIL IN WATER EXPLOSION PFOOF SKID			
		CURRENT					
		MFG. APPROVAL	DATE	REVISION			
		PENDING					
		QUALITY CONTROL	DATE	0			
		VJS		VD12071-111			
		SCALE AS NOTED		SIZE D	SHEET 7 OF 8		

SHEET 8 OF 8
MEDIA CONVERTERS

SPECIFICATIONS	
P/N	VC12072-120
MODEL	MEDIA CONVERTER,NON RATED,8 ETH.CON.OVER FIBER
INPUT SPECIFICATIONS	100-240VAC, 50/60 Hz
FEATURES	
- NON RATED	
- CUSTOMER TO SUPPLY ENCLOSURE FOR CORRECT AREA	
- MAX. RECOMMENDED FIBER CABLE DISTANCE BETWEEN CONVERTERS IS:	
1 GIGABIT DATA TRANSFER SPEED - 3600 FT [1100m] MAX DISTANCE	
10 GIGABIT DATA TRANSFER SPEED - 1300 FT [400m] MAX DISTANCE	
WITH FIBER BEING LC-LC-OM4 MULTIMODE DUPLEX 50/125.	
- IF CABLE DOESN'T COME IN DISTANCES REQUIRED CONSULT FACTORY	
- MAX RECOMMENDED CAT. 6 OUTPUT ETHERNET CABLE DISTANCE , 328 FT. [100 m]	
FOR ETHERNET FROM CAM. TO CONVERTER AND CONVERTER TO COMPUTER.	

ISOMETRIC VIEW
SCALE 1 / 2



FRONT VIEW
SCALE 1 : 1

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		PENDING							
		QUALITY CONTROL	DATE			REVISION	FILE NAME		
		VJS				0	VD12071-111		
				SCALE	AS NOTED	SIZE	D	SHEET	8 OF 8