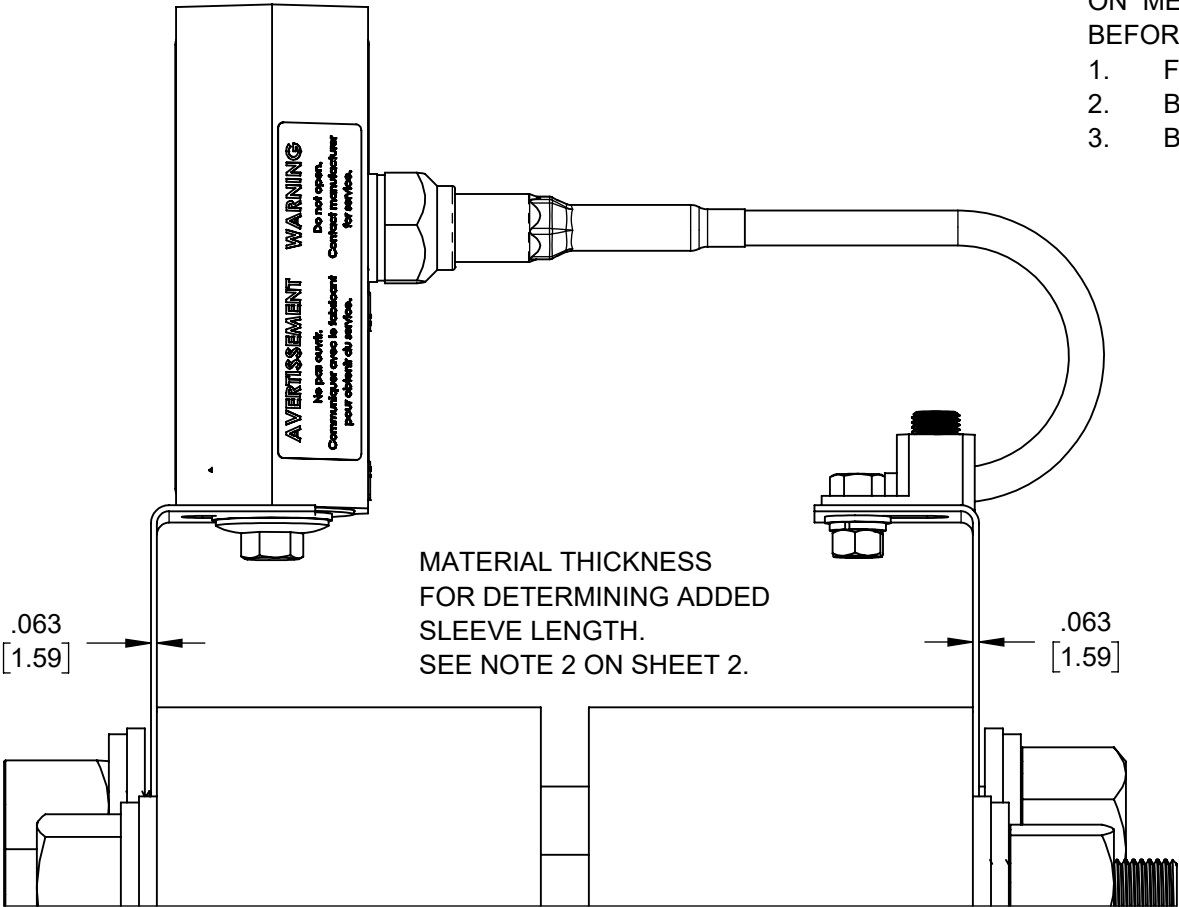


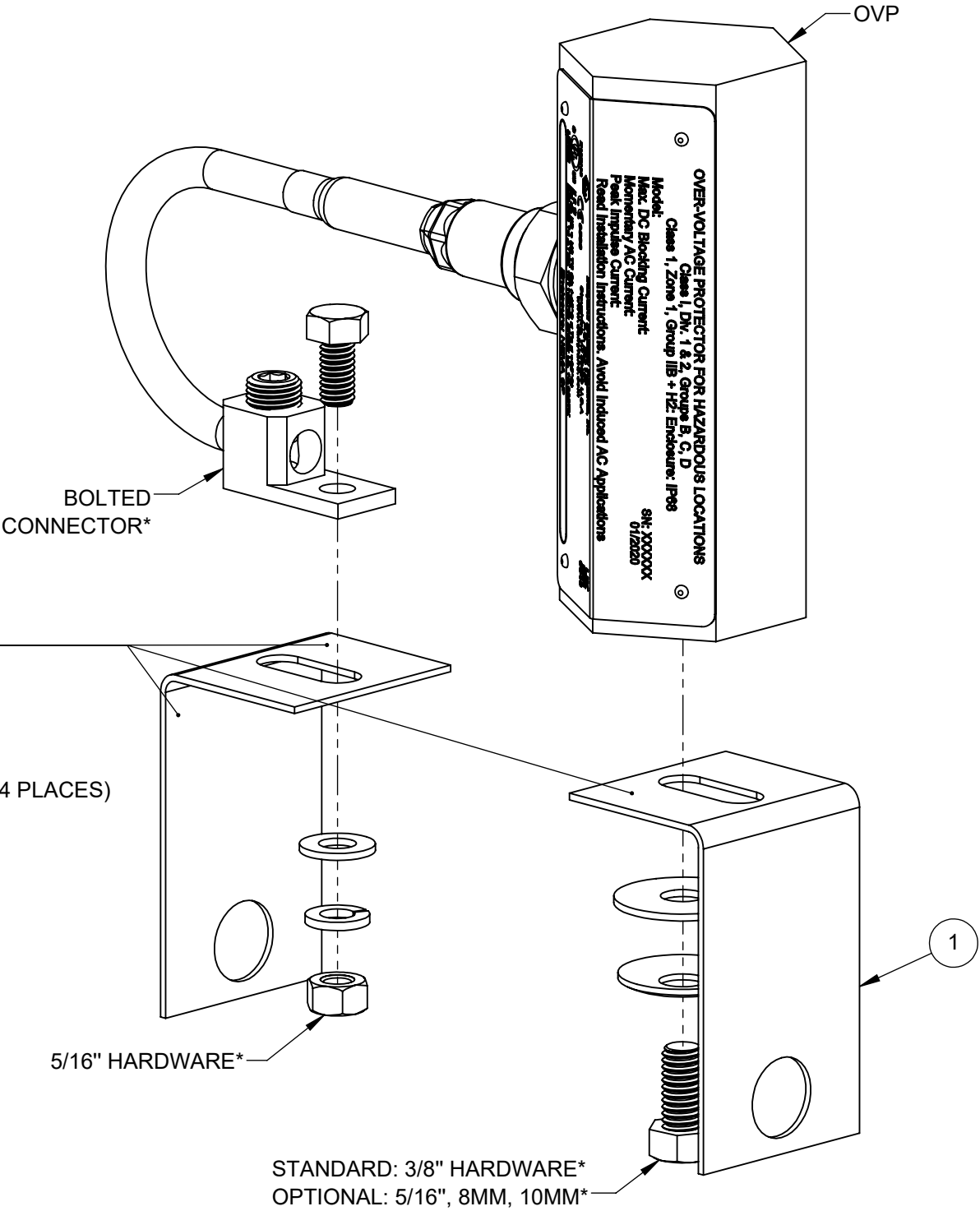
LINE NO.	DOCUMENT NUMBER	DESCRIPTION	QTY.
1	4850-1 THROUGH 4850-10	FMFB/MTF BRACKET	2
2	3041	TEF-GEL	1

KIT #: 4794-1 TO 4794-10
DEPENDING ON FLANGE DIMENSIONS

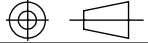
FMFB BRACKET DOCUMENT NUMBER WILL VARY
DEPENDING ON FLANGE DIMENSION.

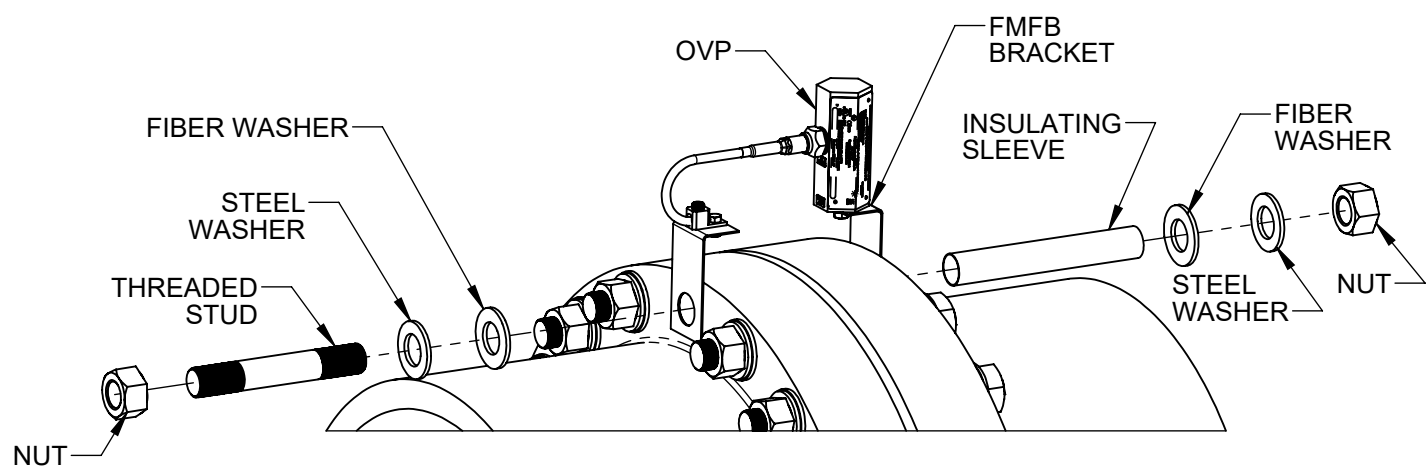
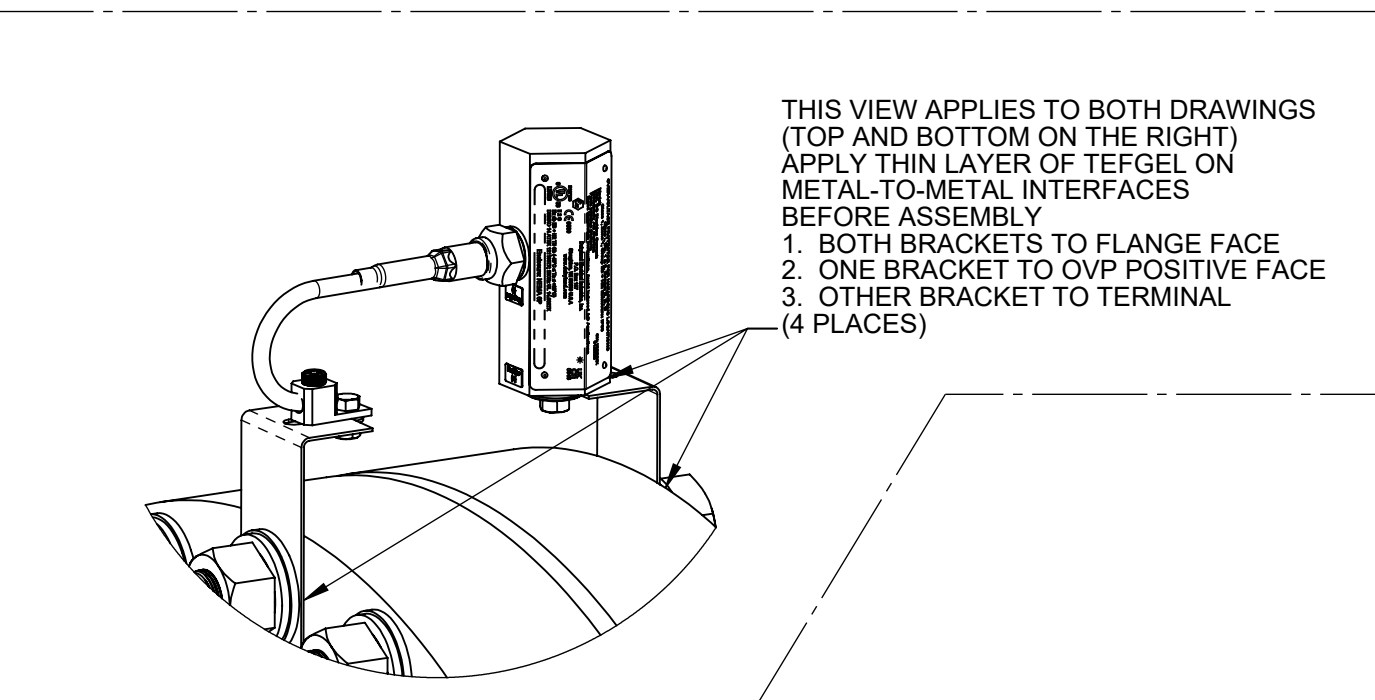
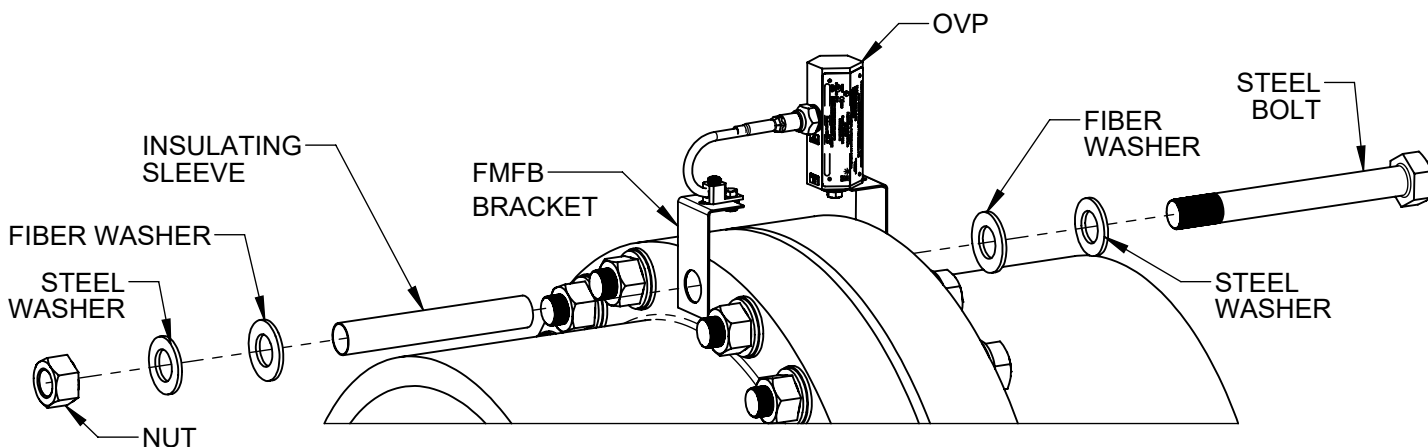


- APPLY THIN LAYER OF TEFGEL (ITEM 2)
ON METAL-TO-METAL INTERFACES
BEFORE ASSEMBLY
1. FMFB BRACKETS TO FLANGE FACE
 2. BRACKET TO OVP POSITIVE FACE
 3. BRACKET TO BOLTED CONNECTOR (4 PLACES)



* THESE PARTS, PLUS ALLEN WRENCH, SUPPLIED WITH OVP

ASME Y14.5M 2018 APPLIES 	MATERIAL: N/A	DRAWN: SAB	DATE DRAWN: 02/21/2022		 DAIRYLAND ELECTRICAL INDUSTRIES, INC. P.O. BOX 187 STOUGHTON, WI 53589 608-877-9900 DAIRYLAND.COM
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. COMPUTER-GENERATED DRAWING DO NOT EDIT MANUALLY.		DWG APPROVAL: JSJ	DATE APPROVAL: 07/31/2025		
FINISH: N/A		TITLE: FMFB KIT MOUNTING			
.XXX = ±.005" .XX = ±.01" .X = ±.03" ANGLES = ±1° 	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DAIRYLAND ELECTRICAL INDUSTRIES, INC. ANY REPRODUCTION IN PART OR WHOLE, WITHOUT THE WRITTEN PERMISSION OF DAIRYLAND ELECTRICAL INDUSTRIES, INC. IS PROHIBITED.				
SHEET: 1 OF 2		DWG SIZE: B	SCALE: 1:8	REV: D	PART #: 100147



THE OVP SPECIFIC FMFB KIT CONSISTS OF (2) IDENTICAL NICKEL PLATED COPPER BRACKETS, THE REQUIRED ASSEMBLY HARDWARE, AND CORROSION INHIBITOR (TEFGEL) FOR MOUNTING ANY OVP MODEL PRODUCT TO AN INSULATED FLANGE OF THE BOLT HOLE DIAMETER (OR ANSI # CLASS AND PIPE DIAMETER) FOR WHICH IT WAS ORDERED.

1. REMOVE THE BOLT OR THREADED STUD THAT WILL BE USED FOR MOUNTING. IT IS RECOMMENDED THE FMFB IS MOUNTED TO THE TOPMOST BOLT/STUD OF THE FLANGE ON A HORIZONTAL PIPE.

2. IDEALLY, A NEW SLEEVE WOULD BE MADE THAT IS 1/8" LONGER THAN THE EXISTING FLANGE BOLT SLEEVE TO ACCOUNT FOR THE 1/16" THICKNESS OF THE TWO MOUNTING BRACKETS, ONE INSTALLED AGAINST EACH FLANGE FACE. IF THE INSULATING SLEEVE OVER THE FLANGE BOLT IS TO BE REUSED, THEN LEAVE THIS SLEEVE IN PLACE.

3. THE INSULATING COATING ON EACH FLANGE FACE MUST BE REMOVED WHERE THE BRACKETS WILL BE IN CONTACT WITH THE FLANGE FACE.

4. APPLY A THIN COATING OF TEFGEL ON THE FACE OF EACH BRACKET WHERE IT WILL BE IN CONTACT WITH EACH FLANGE FACE. REFER TO THE SHOWN VIEW SO TEFGEL IS APPLIED ON THE CORRECT SIDE.

5A. IF THE FLANGE BOLT ONLY HAS A NUT AND WASHERS ON ONE END, THEN REMOVE THIS BOLT AND SLIDE A STEEL WASHER, A FIBER WASHER AND THEN A BRACKET, ORIENTED AS REQUIRED AGAINST THE BOLT HEAD. THEN SLIDE THIS BOLT THROUGH THE INSULATING SLEEVE ALL THE WAY THROUGH BOTH FLANGES. ON THE OTHER END OF THE BOLT, INSERT THE OTHER BRACKET ORIENTED AS REQUIRED, THEN A FIBER WASHER FOLLOWED BY A STEEL WASHER AND NUT. TIGHTEN THE NUT ENOUGH TO HOLD THE BRACKETS UPRIGHT BUT SO THEY CAN STILL BE ROTATED BY HAND FOR LATER ALIGNMENT.

5B. IF THE FLANGE BOLT IS A THREADED STUD THAT HAS A NUT AND WASHERS ON EACH END, SLIDE THIS THREADED STUD THROUGH THE INSULATING SLEEVE AS IT WAS. SLIDE EITHER BRACKET, THEN A FIBER WASHER FOLLOWED BY THE STEEL WASHER AND NUT. TIGHTEN THE NUTS ON EACH END OF THE STUD ENOUGH TO HOLD THE BRACKETS UPRIGHT, BUT SO THEY CAN STILL BE ROTATED FOR LATER ALIGNMENT.

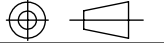
6. IT IS SUGGESTED TO CHECK THE FLANGE FOR ELECTRICAL ISOLATION AFTER INSTALLATION OF LOWER BRACKETS, PRIOR TO INSTALLING THE OVP. THIS ISOLATION CHECK IS TYPICALLY DONE WITH A RADIO FREQUENCY ISOLATION TESTER DEVICE FROM THE RE-INSTALLED BOLT TO EACH FLANGE. THE OVP SHOULD BE TESTED SEPARATELY PER DAIRYLAND TESTING RECOMMENDATIONS FOUND AT DAIRYLAND.COM

7. USING THE HARDWARE THAT WAS FURNISHED WITH THE OVP, ATTACH AN OVP TO THE BRACKET AS SHOWN. APPLY TEFGEL BETWEEN MATING SURFACES OF THE OVP POSITIVE FACE AND THE SAME BRACKET. PARTIALLY TIGHTEN THE NUTS SO THE BRACKET CAN STILL BE ADJUSTED FOR FINAL ALIGNMENT.

8. NOTE THE POLARITY LABELS ON THE OVP AND INSTALL THE NEGATIVE TERMINAL ON THE MORE ELECTRONEGATIVE SIDE OF THE FLANGE (TYPICALLY THE PIPELINE SIDE OR THE SIDE WITH CATHODIC PROTECTION). THE POSITIVE TERMINAL IS INSTALLED ON THE MORE ELECTROPOSITIVE SIDE OF THE FLANGE (TYPICALLY THE STATION SIDE, THE SKID SIDE, OR GROUNDED SIDE)

9. PLACE THE OVP TERMINAL ON THE OTHER OF THE TWO BRACKETS AFTER FIRST APPLYING TEFGEL BETWEEN MATING SURFACES. INSTALL THE BOLT, WASHERS AND NUTS PROVIDED WITH THE OVP AS SHOWN AND SEMI-TIGHTEN.

10. ALIGN ALL BRACKETS AS DESIRED AND THEN TIGHTEN ALL NUTS ON ALL BOLTS. CROSS CHECK THAT ALL NUTS HAVE BEEN SECURELY TIGHTENED AND THAT THE FLANGE BOLT NUT, OR NUTS, HAVE BEEN TORQUED TO THEIR SPECIFIED VALUE.

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.XXX = ±.005" .XX = ±.01" .X = ±.03" ANGLES = ±1° 	FINISH: N/A	TITLE: FMFB INSTALLATION WITH OVP				
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