

1. MATERIAL: SEE PARTS LIST.
2. FOR ITEM 1 OUTLINE/INTERFACE DIMENSIONS SEE D/N 42886 (NRH-051-03).
FOR ITEM 11 OUTLINE/INTERFACE DIMENSIONS SEE D/N 144177 (FHT-010-03).
3. BAG & TAG O-RINGS, ATTACH BAG TO HOSE WITH TIE WRAP.
4. HOSE MINIMUM BEND RADIUS: 5" [127]
5. PENETRATOR USES THE FOLLOWING O-RINGS:
2-030 FOR GLAND SEAL
2-137 FOR FACE SEAL

ATTACH BAG TO HOSE WITH TIE WRAP.
 RADIUS: 5" [127]
 FOLLOWING O-RINGS:

14'-0" + 12" / -0" [4.3 M]
 6'-6" + 6" / -0" [2 M]
 (11.29 [286.8])
 6'-6" + 6" / -0" [2 M]

(7.65 [194.4] TYP)
 (14)
 (9) (10)
 (1.83 [46.4] TYP)
 (1.15 [29.2] TYP) $\triangle 4$
 ($\phi 2.98$ [75.7])
 (7) (12)
 (6) (11) (15)
 (9) (10)

(8)
 (2)
 (6)
 (13)
 (1)
 KEYWAY THIS SIDE
 A A

Issued for Approval
☒ Approved without comments – proceed with manufacture.
 Comments provided,
☐ incorporate and resubmit for approval.

T. Craig Dawe 05/13/2021
 Signature Date

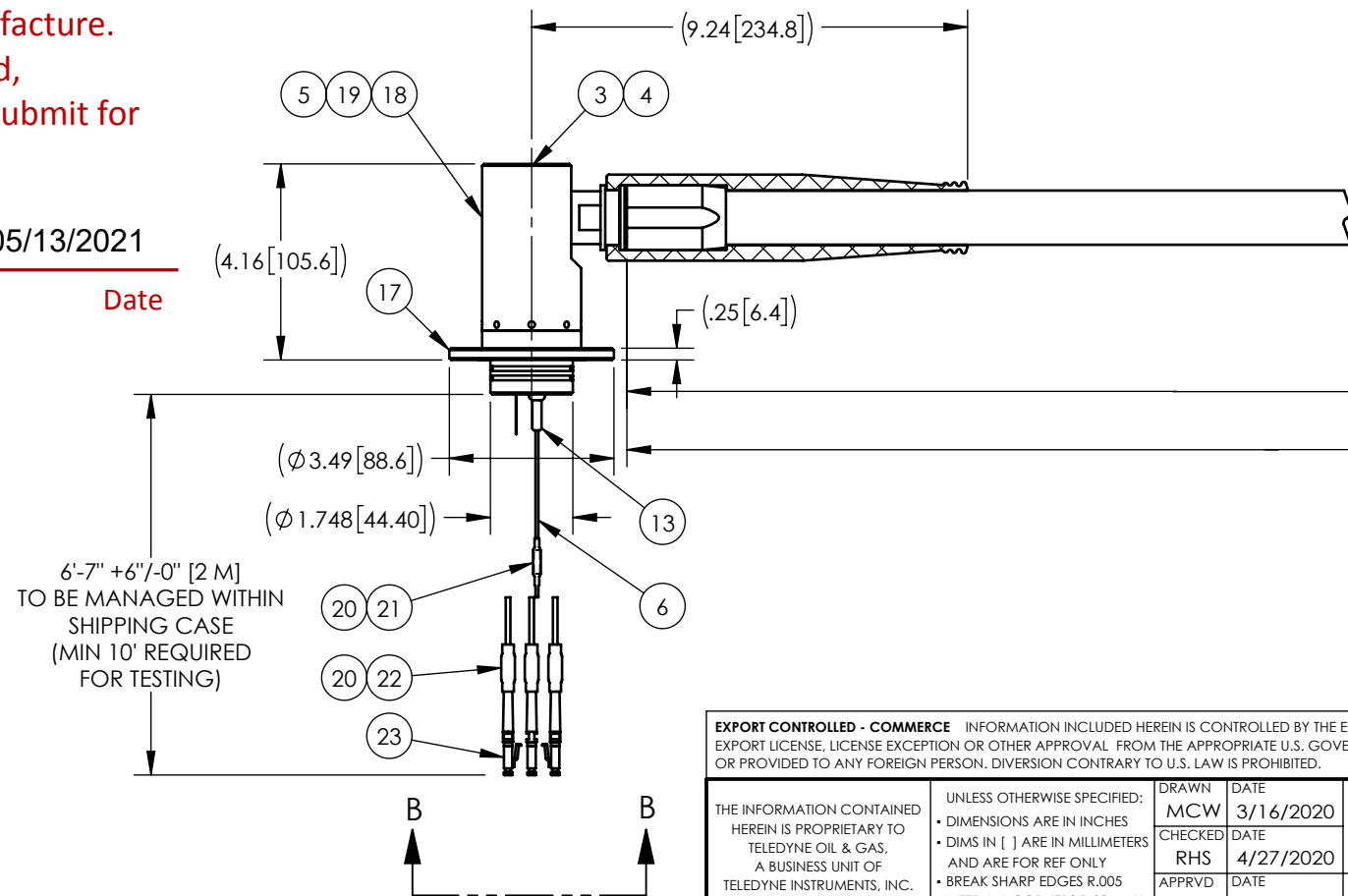
(9.24 [234.8])
 (5) (19) (18)
 (3) (4)
 (4.16 [105.6])
 (17)
 (.25 [6.4])

($\phi 2.900$ [73.66] BC)

- ☒ Approved without comments – proceed with manufacture.
- ☐ Comments provided, incorporate and resubmit for approval.

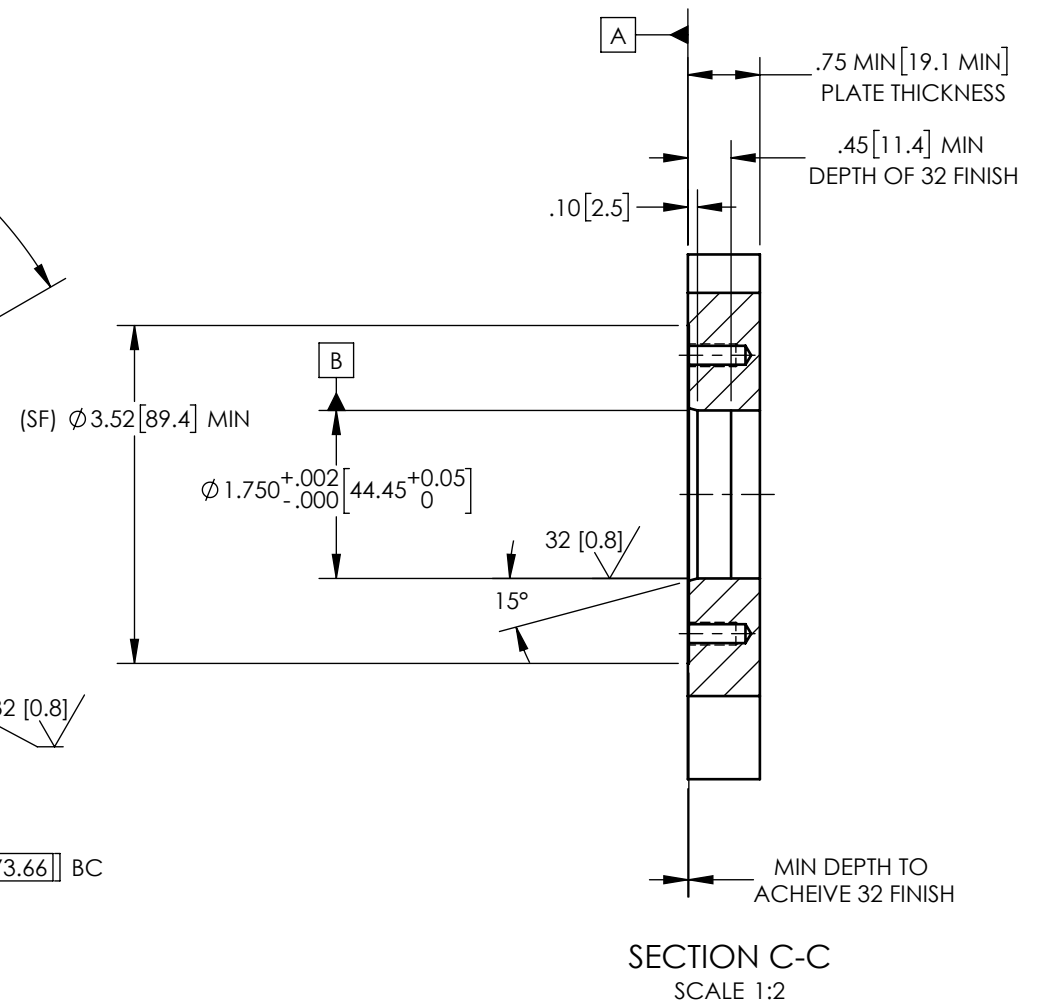
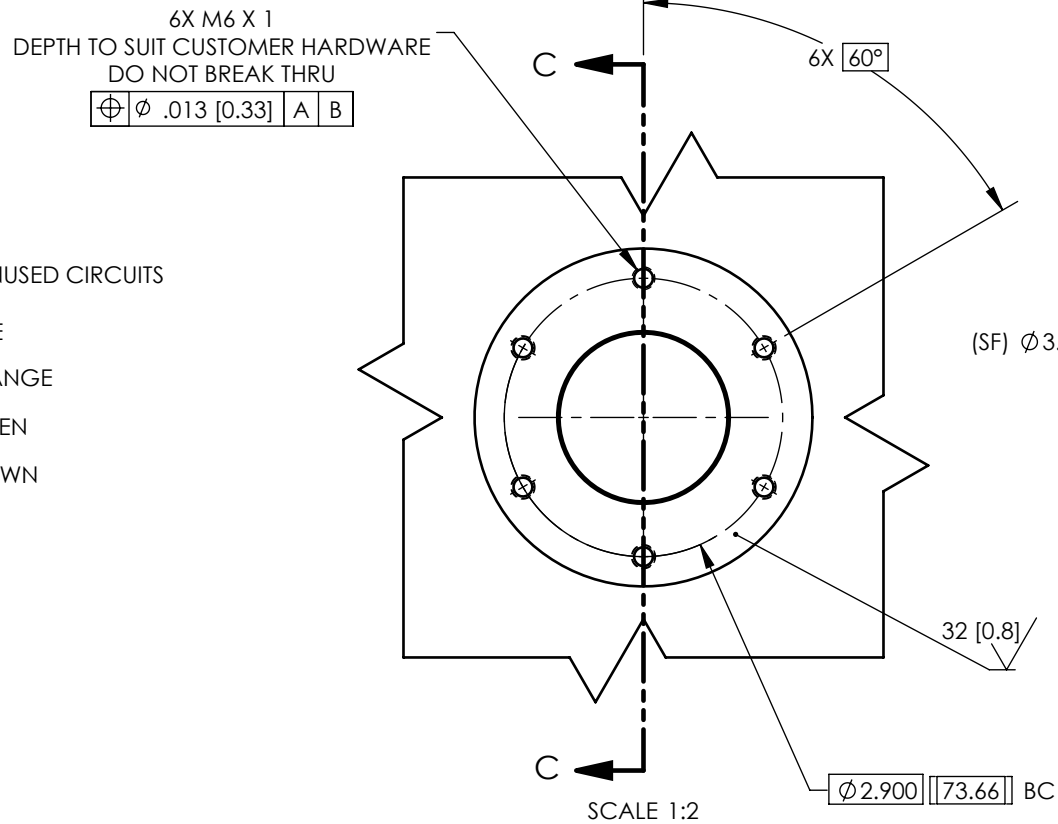
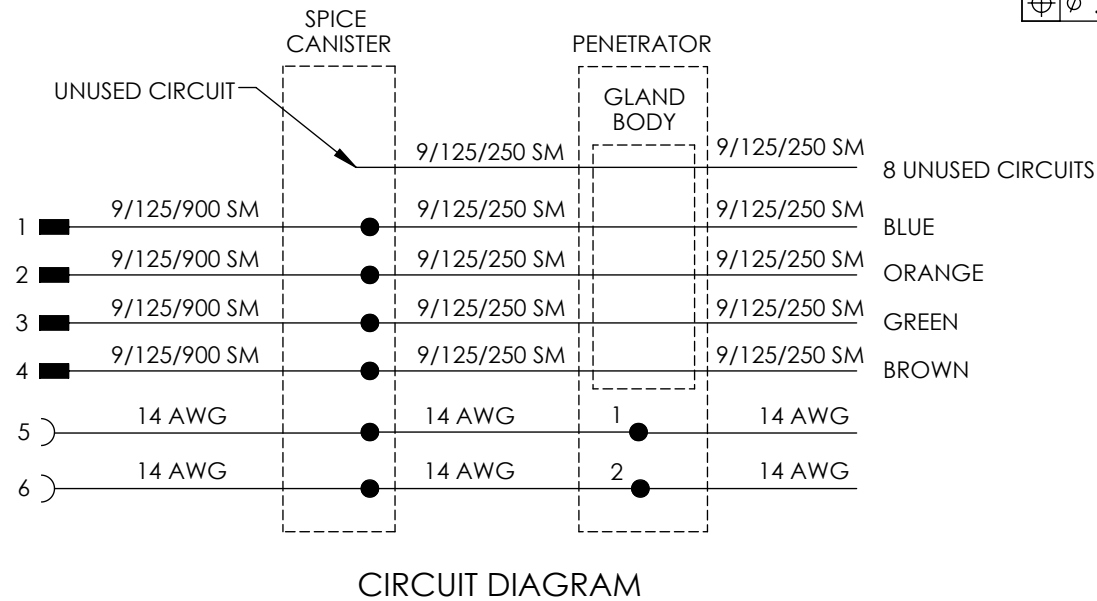
T. Craig Dawe 05/13/2021

Signature Date



THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO TELEDYNE OIL & GAS, A BUSINESS UNIT OF TELEDYNE INSTRUMENTS, INC.	UNLESS OTHERWISE SPECIFIED: • DIMENSIONS ARE IN INCHES • DIMS IN [] ARE IN MILLIMETERS AND ARE FOR REF ONLY • BREAK SHARP EDGES R.005 • INTERNAL CORNERS R.02 MAX • MACHINED FEATURES 63 Ra • TOLERANCES:		DRAWN MCW DATE 3/16/2020		 TELEDYNE OIL & GAS TELEDYNE ODI
			CHECKED RHS DATE 4/27/2020		
			APPROVD SMB DATE 4/27/2020		
			DWG TITLE 40/2E HYB NRH ROV FXD PLUG / HYB FXD PNTR (90D) GA DRAWING W/ PARTS LIST		
INTERPRET THIS DRAWING IN ACCORDANCE WITH: ASME Y14.5-2018 DIM AND TOLERANCING ASME Y14.100-2017 ENG DWG PRACTICES	FRACTIONS $\pm 1/64"$ X.XX $\pm .01$ X.XXX $\pm .003$ ANGLES $\pm 0.5^\circ$		DO NOT SCALE FROM DRAWING DIMENSIONS IN [] ARE FOR REFERENCE ONLY		
			SIZE B DAI 0VV88		
			DOC NO 1824217		
		SCALE 1:4		PART NO REF NO OPM-410-01	
				REV B SHEET 1 OF 2	

SEE SHEET 1 FOR NOTES.



23	1058327	F15069	LC CONNECTOR	4	
22	1013497	RNF100-CL-H03	HEAT SHRINK TUBING, 1/4" CLR	4 X A/R	
21	1013495	RNF100-CL-H00	HEAT SHRINK TUBING, 1/8" CLR	2 X A/R	
20	1000679	44-105	IDENT LABEL - (SEE CIRCUIT DIAGRAM)	6	
19	1036296	FAC-067-04-007	FACT INNER BOOT SEAL, OD1037	2	
18	1061527	ROV-062-01-10	-12 INT 90 DEGREE TERM S/A, TI GR 2	1	
17	1125069	OPM-412-01	HYB FXD PNTR S/A, TI GR 2	1	 
16	1125338	FIB-378-01-28	OPTIC SHIPPING CASE KIT (NOT SHOWN)	1	
15	1033888	SO12696-FPS-01-900-45	SPLICE (OPTICAL) 45MM	4	
14	1013373	P-TOUCH-1"	LABEL - "ODI S/N____"	A/R	
13	1012423	ODN-001-04-1	NAUT BOOT SEAL, OD1037	4	
12	1008136	GBF-060-04-1	SOLDER SPLICE, BRASS	2	
11	1007080	FHT-010-01-1-1	SPLICE CSTR, -12 INT/-12 INT, TI GR 2	1	
10	1012533	ODN-109-01-2	TITI -12 HOSE ASSEMBLY	2	
9	1012416	ODHOSE-12-HBD-2	HOSE, 5/8" I.D., ORANGE	2 X A/R	
8	1004367	DC200/100CS	SILICONE OIL, 200/100CS	A/R	
7	1008147	GBF-061-04-11	SPLICE BOOT SEAL, OD1037	2	
6	1000717	44A0211-14-9	44A0211-14-9, 14 AWG, 1000V, W	6 X A/R	
5	1001150	832T02H04	8-32 UNC-2A X 1/4, TI GR 2, SET SCR HEX SKT CUP PT	8	
4	1000645	3-904-N552-90	3-904, NITRILE 90, O-RING	1	
3	1013597	ROV-016-04-2	-4 SAE HOLLOW HEX PLUG, TI GR 2	1	
2	1061528	FAK-545-01-12-90	TERM SHELL KIT, 90 DEG -12 INT, TI GR 2	1	
1	1121193	NRH-034-01-1-1-3-1	4O/2E NRH HYB ROV FXD PLUG OOOOEE, TI GR 2	1	
ITEM	PART NO	REF NO	DESCRIPTION	QTY.	NOTES
PARTS LIST					

PENETRATOR / MOUNTING DETAIL

COMMERCE EAR-CONTROL TECHNOLOGY SUBJECT TO RESTRICTIONS CONTAINED ON SHEET 1.			
		TELEDYNE OIL & GAS TELEDYNE ODI	
DWG TITLE 40/2E HYB NRH ROV FXD PLUG / HYB FXD PNTR (90D) GA DRAWING W/ PARTS LIST			
SIZE	DAI	DOC NO	REV
B	OVV88	1824217	B
SCALE	PART NO		SHEET
1:8	1124980		8
	REF NO		
	OPM-410-01		2 OF 2