

TELEMARK 249 Multi Pocket E-Beam Source Drawings

The current version of this drawing pdf can be found at

<https://telemark.com/uhv-e-beam-sources/near-uhv-multi-pocket-sources/>

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Reference Dimensions

E-Beam Source

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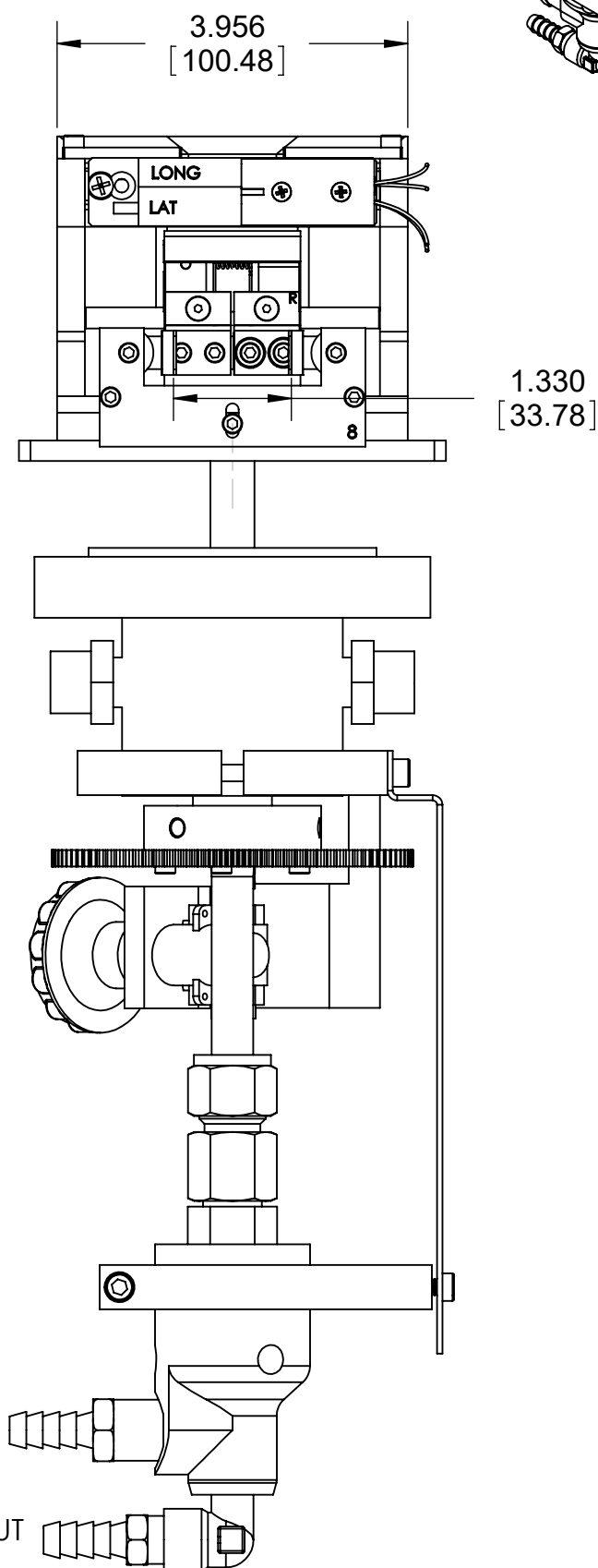
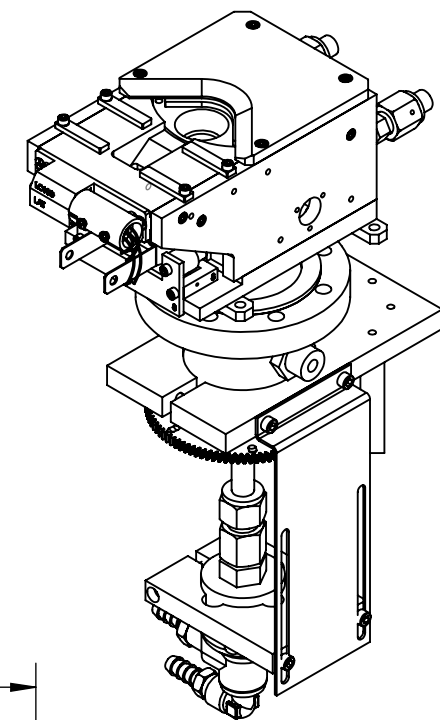
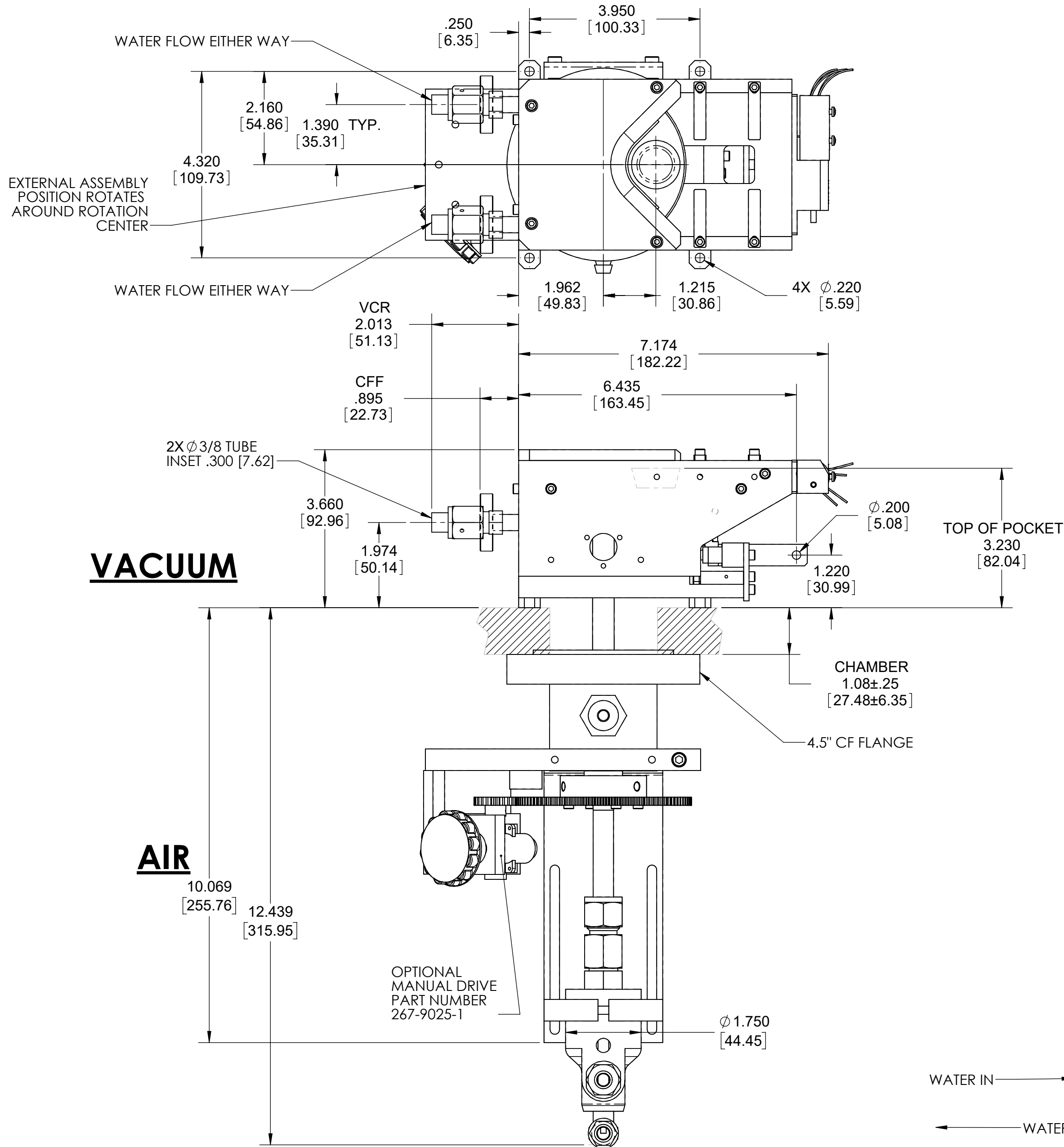
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	7/15/2010
		A1	UPDATE	PWF	5/3/2011
		B	UPDATE CRUCIBLE TUBE	PWF	9/16/2013
990893		C	UPDATE WATER FLOW	PWF	5/7/2020

1


2

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4



INCH [mm]

UNLESS OTHERWISE SPECIFIED		DWG BY	DATE	MATERIAL:	TELEMARK	
GLOBAL TOLERANCES		CHECK BY	DATE		telemark.com	
		PROJ ENG	DATE	FINISH:		
		MFG ENG	DATE			
INCHES [mm]		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION		
X +/- .03	[0.762]	FILE NUMBER - 249-0135-1				
.XX +/- .01	[0.254]	INITIAL PROJECT - 249				
.XXX +/- .005	[0.127]					
ANGLES +/- .5°						
SURF FINISH .63 RMS						
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C	SCALE	1:2	DWG NO.		REV	
	SHEET	1 of 2	R249-0001		C	

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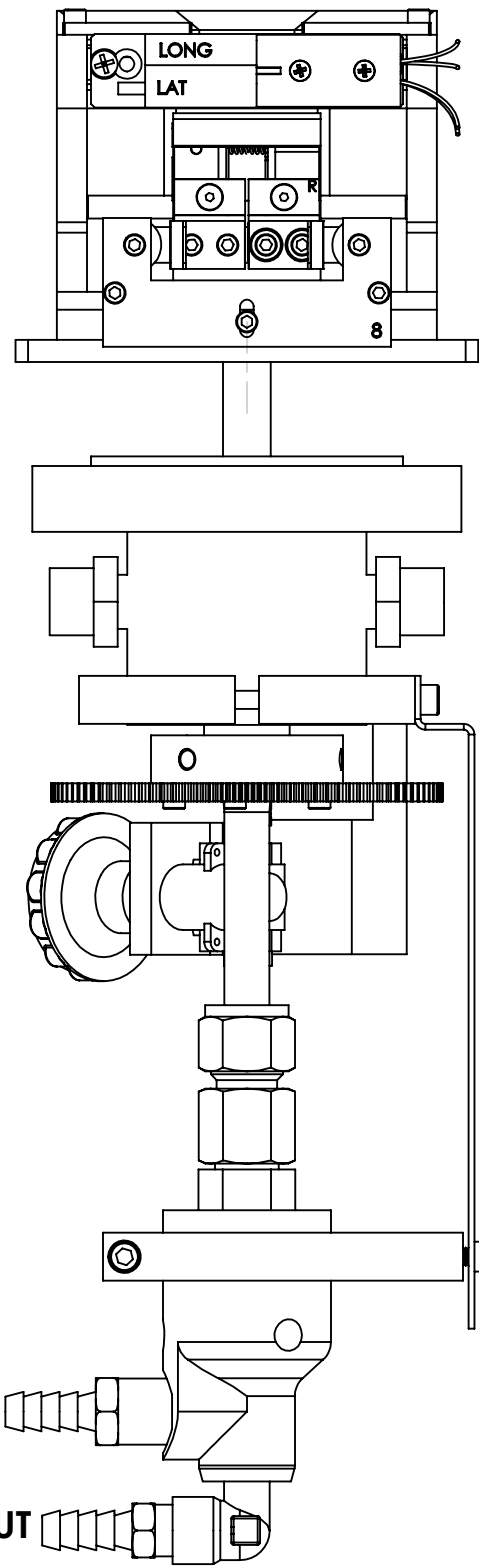
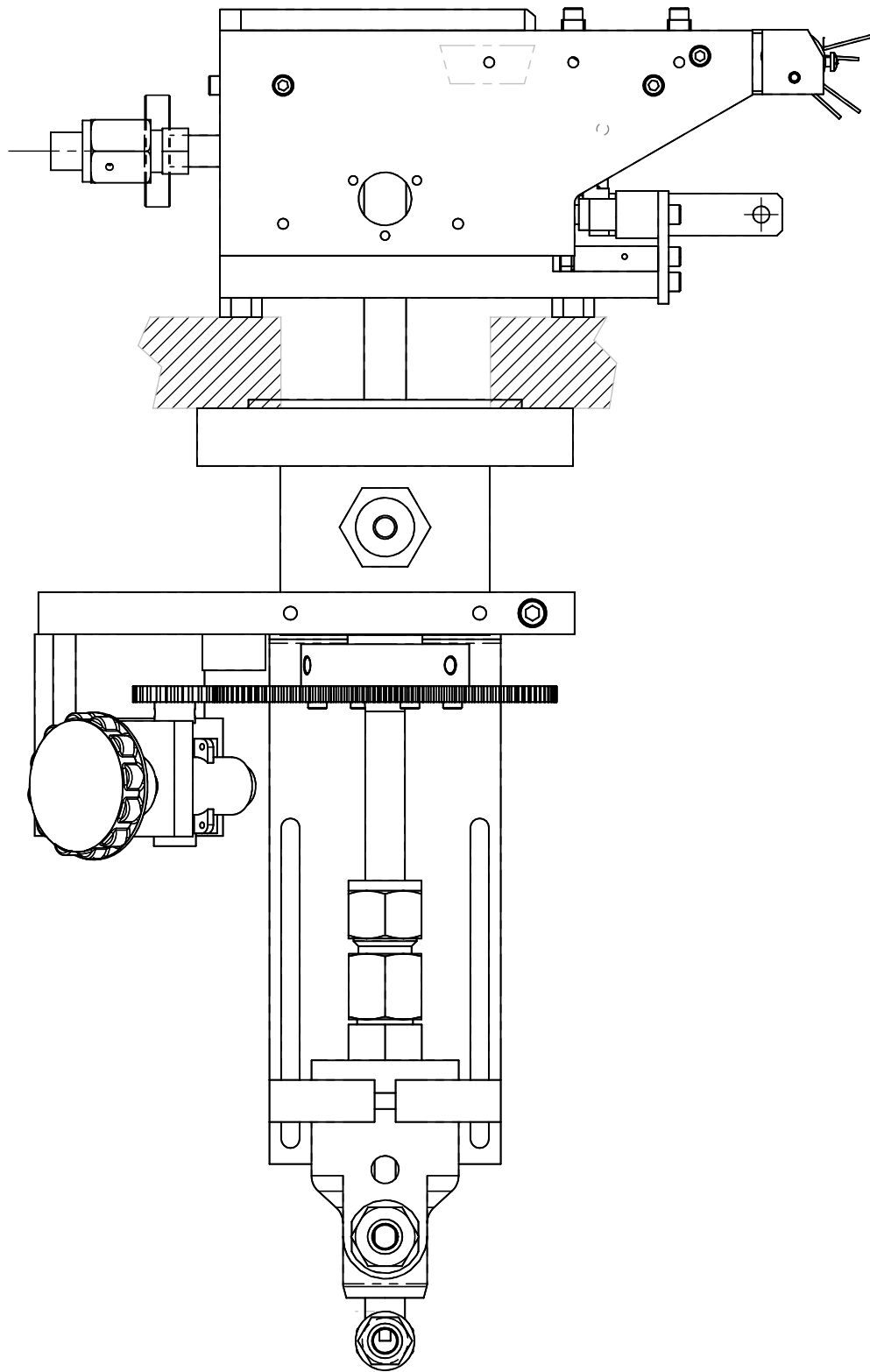
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WATER FLOW EITHER WAY

WATER FLOW EITHER WAY

MODEL 249

IMPORTANT WATER LINE CONNECTION INFORMATION



WATER IN

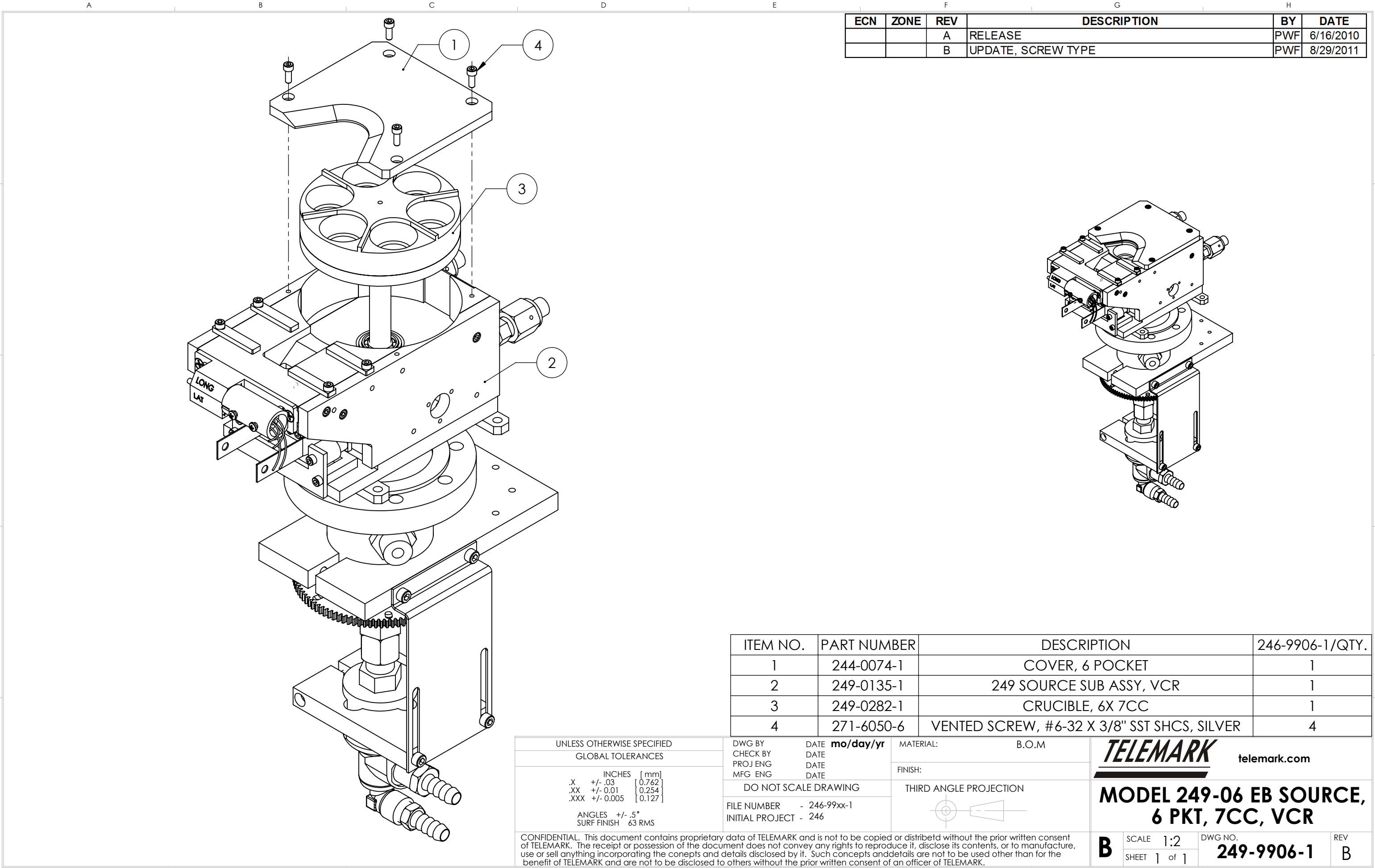
WATER OUT

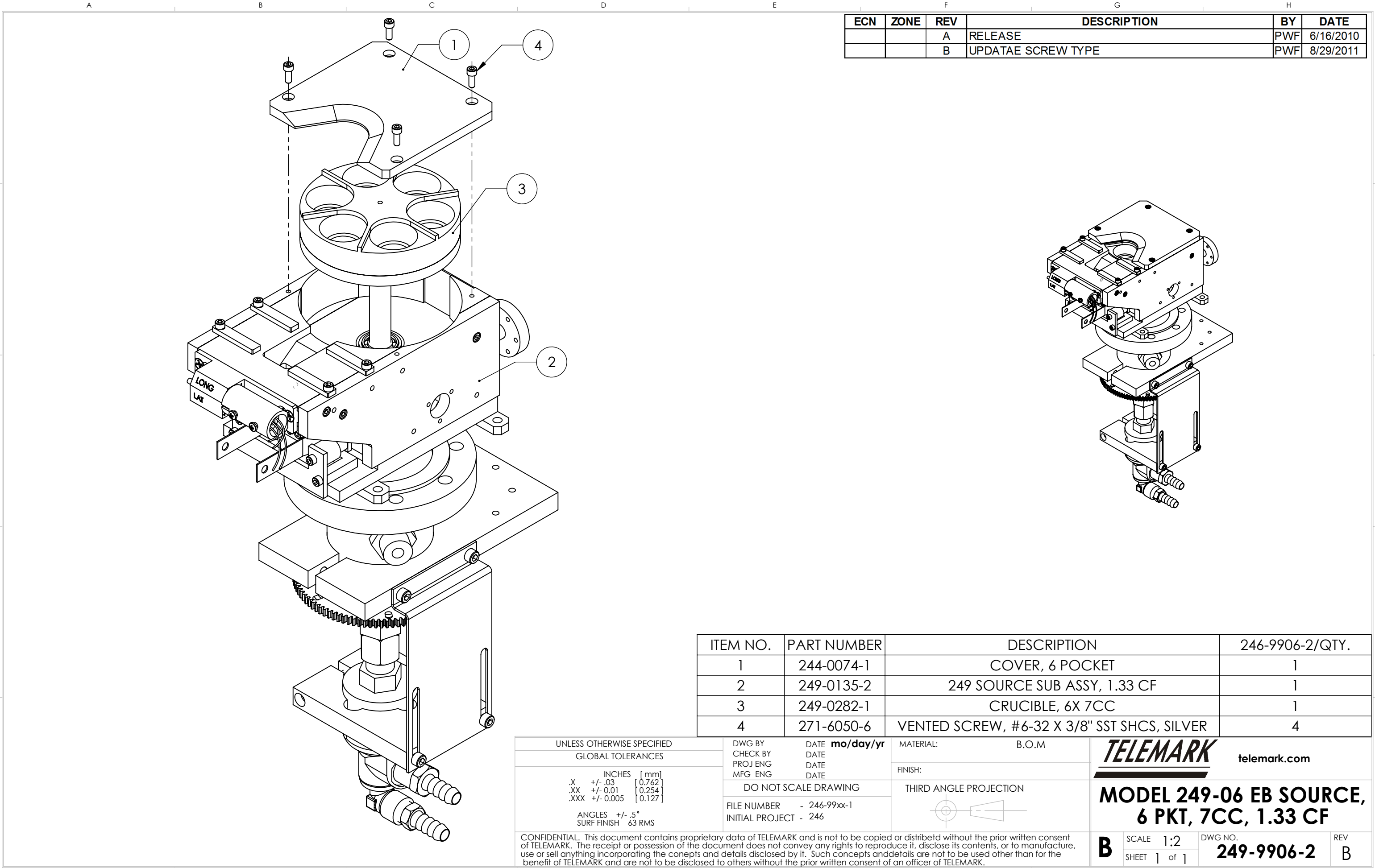
UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL: FINISH:	TELEMARK telemark.com	
INCHES [mm] .X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127] ANGLES +/- .5° SURF FINISH 63 RMS		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	MODEL 249 EB SOURCE	
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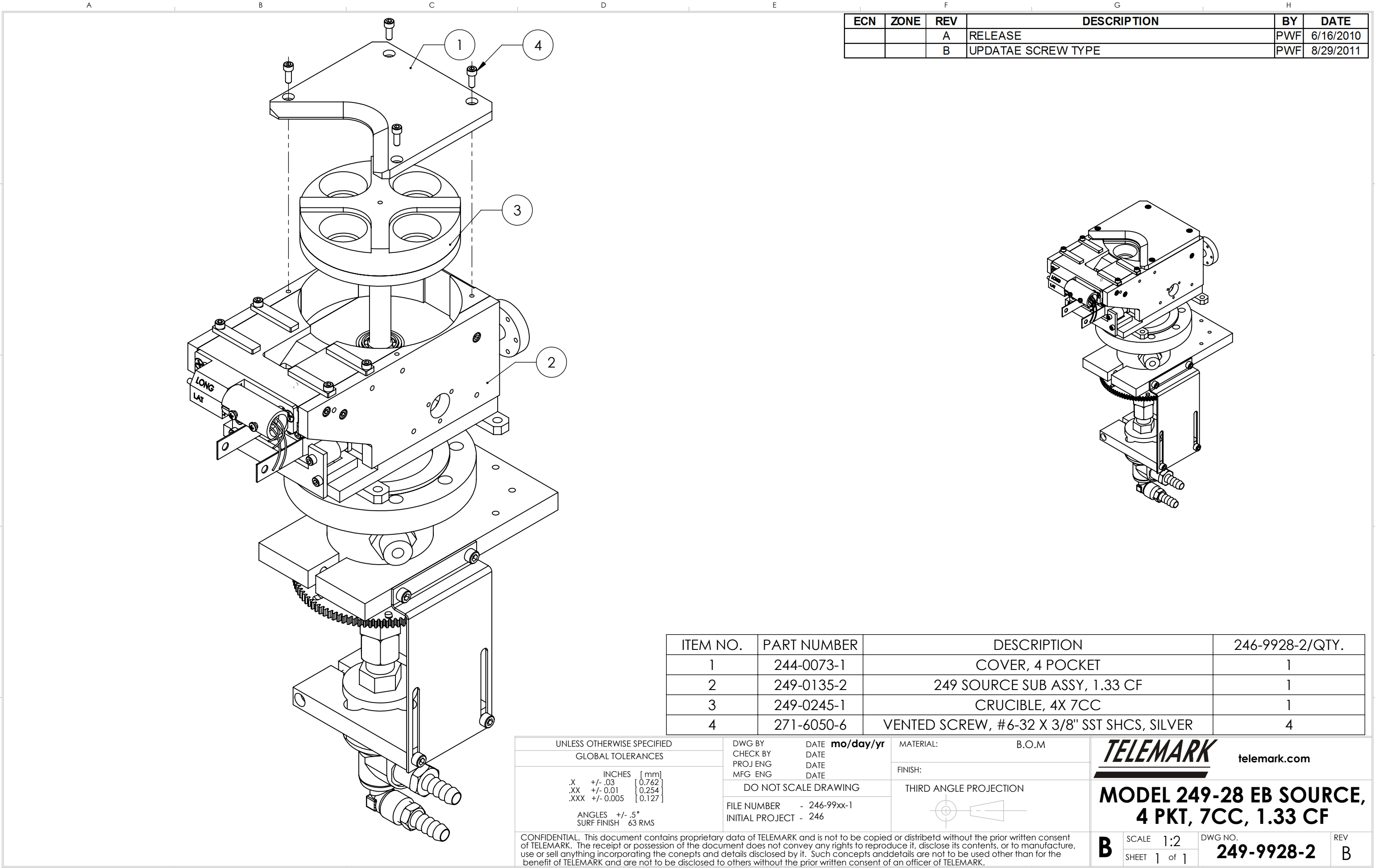


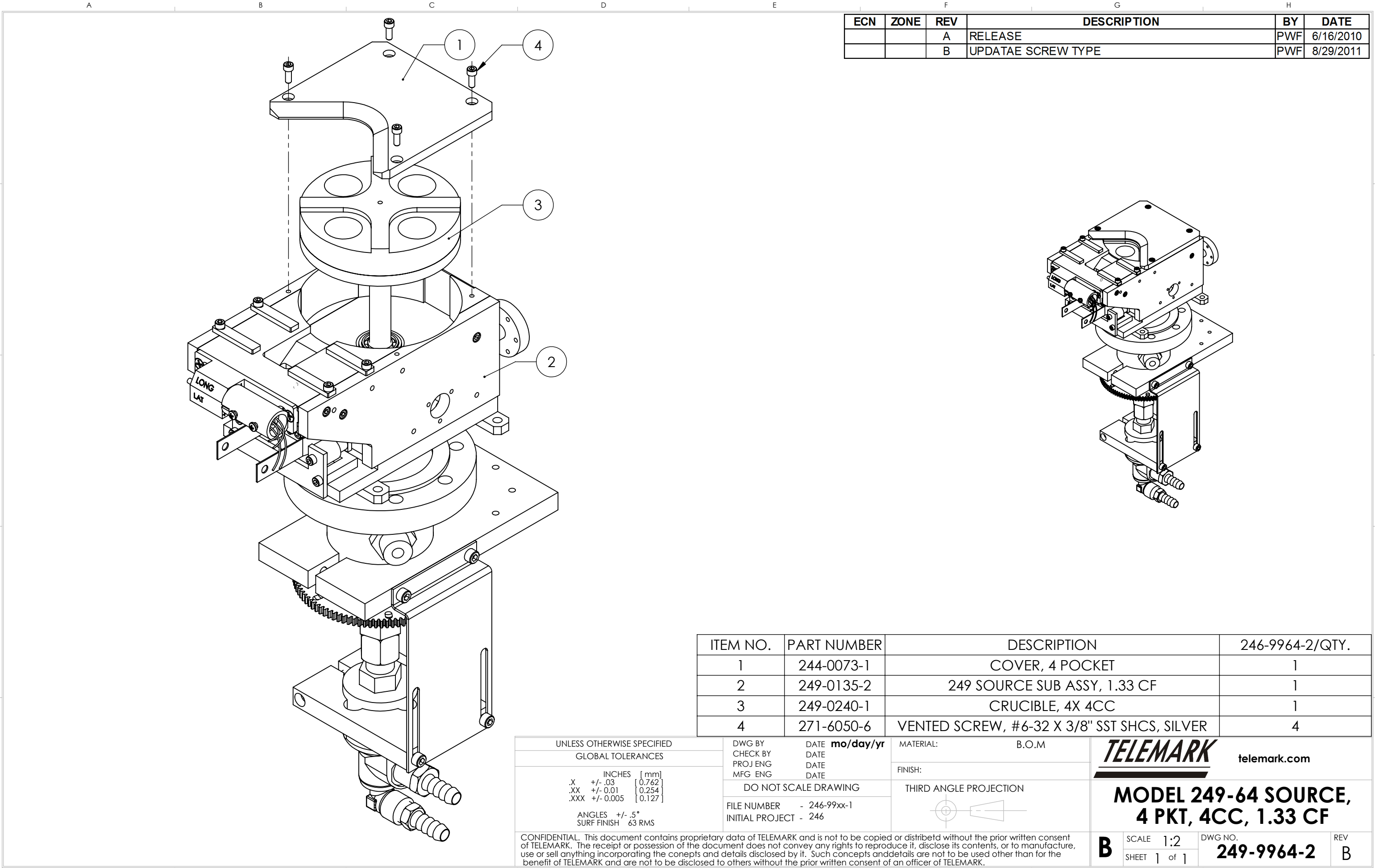
Model Assemblies

E-Beam Sources









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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	6/16/2010
		B	UPDATAE SCREW TYPE	PWF	8/29/2011

ITEM NO.	PART NUMBER	DESCRIPTION	246-9966-1/QTY.
1	244-0074-1	COVER, 6 POCKET	1
2	249-0135-1	249 SOURCE SUB ASSY, VCR	1
3	249-0281-1	CRUCIBLE, 6X 4CC	1
4	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER	4

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

INCHES [mm]

.X +/- .03 [0.762]

.XX +/- 0.01 [0.254]

.XXX +/- 0.005 [0.127]

ANGLES +/- .5°

SURF FINISH 63 RMS

DWG BY
CHECK BY
PROJ ENG
MFG ENG

DATE
DATE
DATE
DATE

mo/day/yr

DO NOT SCALE DRAWING

FILE NUMBER - 246-99xx-1

INITIAL PROJECT - 246

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION

TELEMARK
telemark.com

**MODEL 249-66 EB SOURCE,
6 PKT, 4CC, VCR**

B

SCALE 1:2
SHEET 1 of 1

DWG NO.
249-9966-1

REV
B

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ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	6/16/2010
		B	UPDATAE SCREW TYPE	PWF	8/29/2011

ITEM NO.	PART NUMBER	DESCRIPTION	246-9966-2/QTY.
1	244-0074-1	COVER, 6 POCKET	1
2	249-0135-2	249 SOURCE SUB ASSY, 1.33 CF	1
3	249-0281-1	CRUCIBLE, 6X 4CC	1
4	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER	4

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- 0.01	[0.254]
.XXX	+/- 0.005	[0.127]

ANGLES +/- .5°
SURF FINISH 63 RMS

DWG BY
CHECK BY
PROJ ENG
MFG ENG

DATE
DATE
DATE
DATE

mo/day/yr

DO NOT SCALE DRAWING

FILE NUMBER - 246-99xx-1
INITIAL PROJECT - 246

MATERIAL: B.O.M

FINISH:

THIRD ANGLE PROJECTION

TELEMARK

telemark.com

MODEL 249-66 EB SOURCE,
6 PKT, 4CC, 1.33 CF

B

SCALE 1:2
SHEET 1 of 1

DWG NO. 249-9966-2

REV B

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Common Assemblies

E-Beam Source

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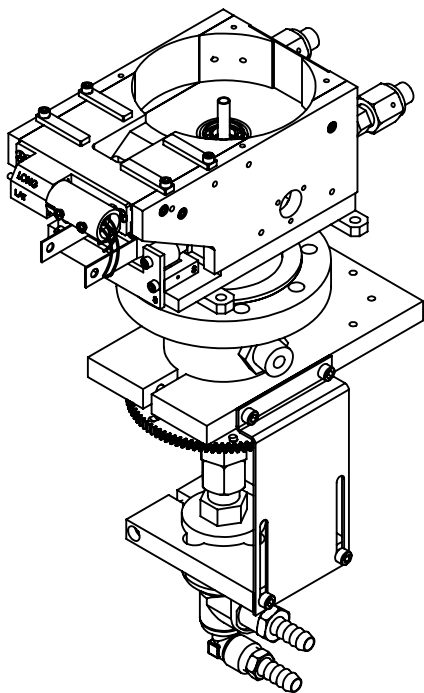
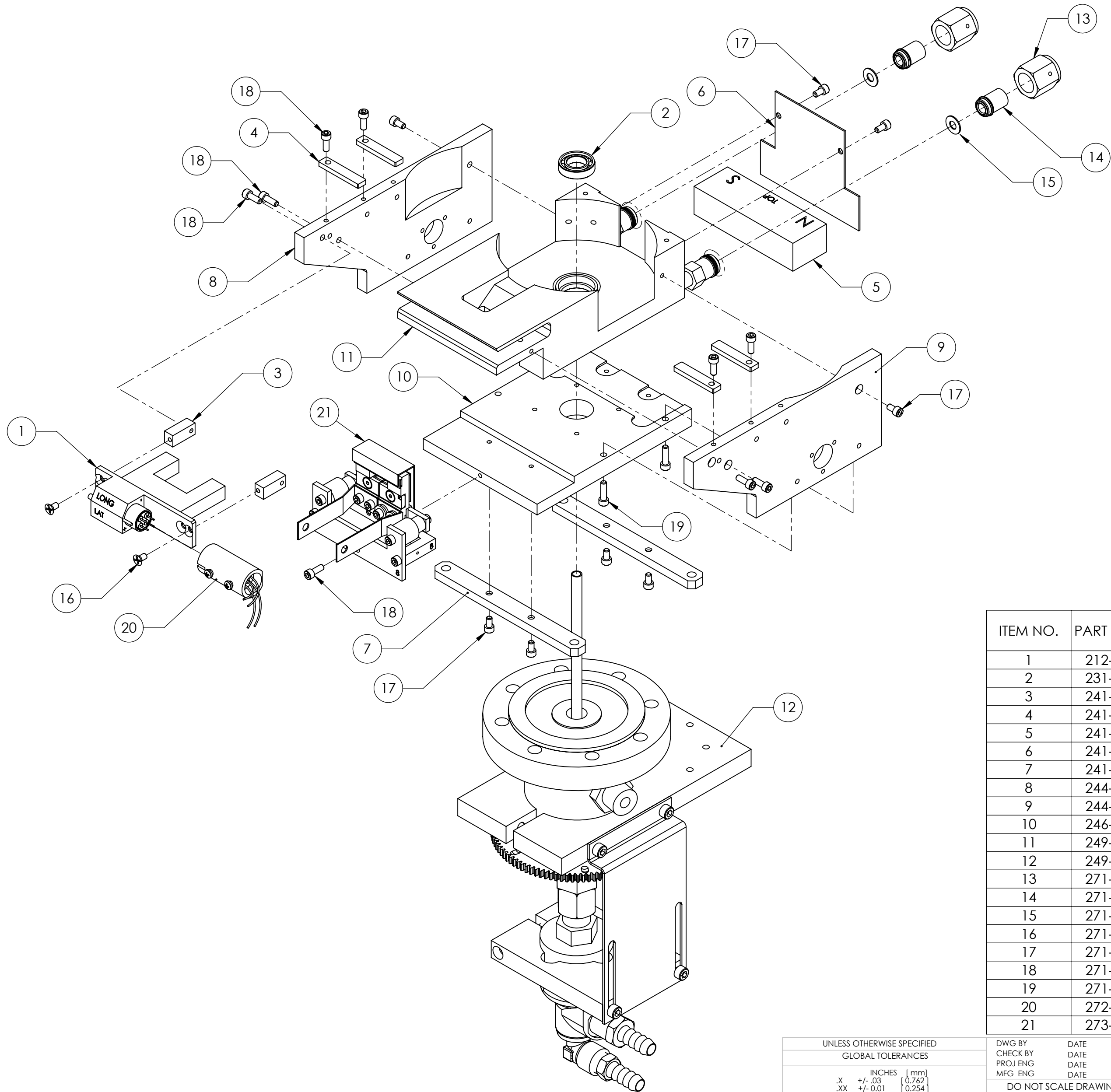
ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	6/5/2010
		B	UPDATE, SCREW TYPE	PWF	8/29/2011
		C	CHANGE EMITTER TO 273-0150-9	PWF	8/21/2013

1

2

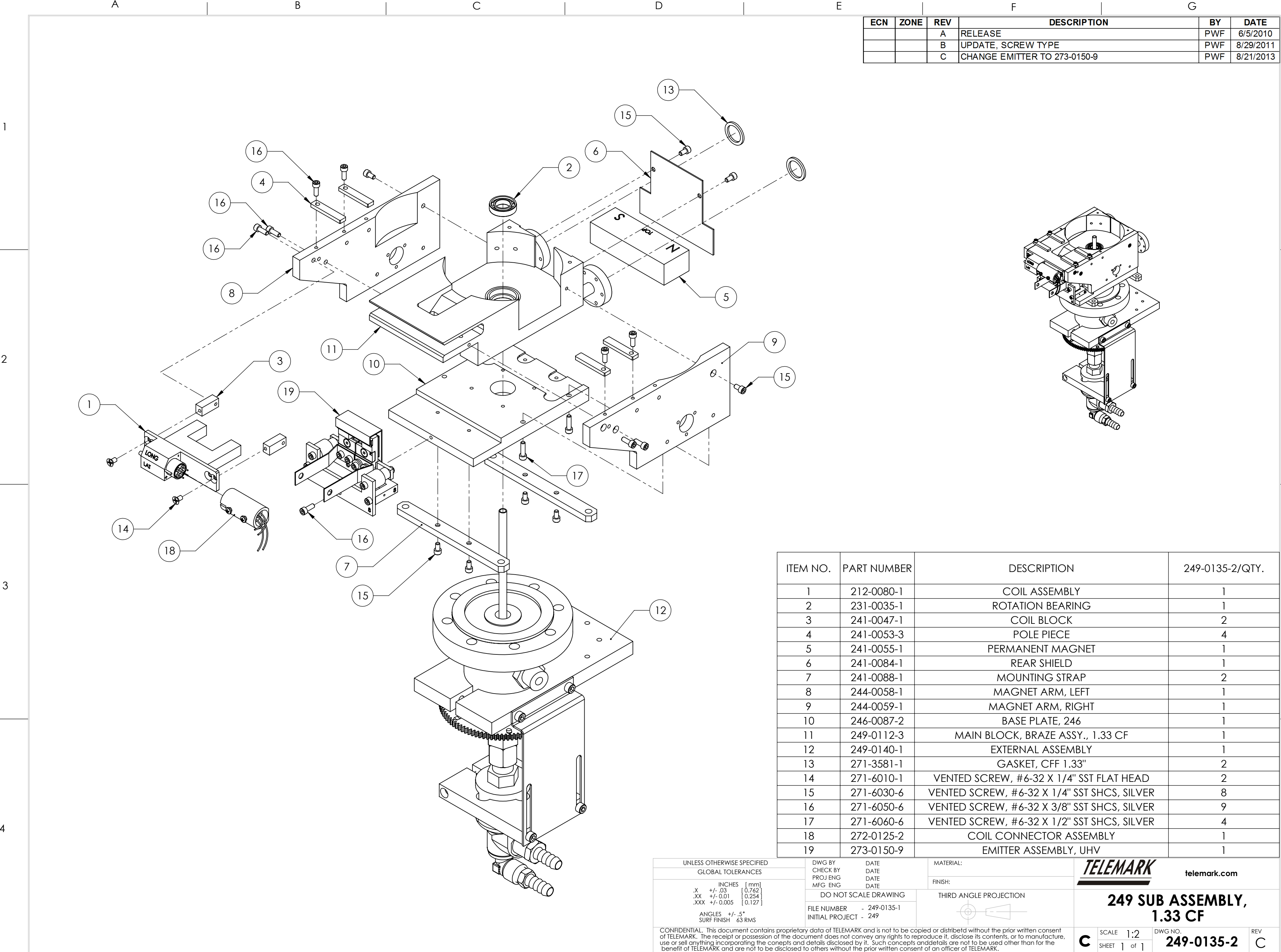
3

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ITEM NO.	PART NUMBER	DESCRIPTION	249-0135-1/QTY.
1	212-0080-1	COIL ASSEMBLY	1
2	231-0035-1	ROTATION BEARING	1
3	241-0047-1	COIL BLOCK	2
4	241-0053-3	POLE PIECE	4
5	241-0055-1	PERMANENT MAGNET	1
6	241-0084-1	REAR SHIELD	1
7	241-0088-1	MOUNTING STRAP	2
8	244-0058-1	MAGNET ARM, LEFT	1
9	244-0059-1	MAGNET ARM, RIGHT	1
10	246-0087-2	BASE PLATE, 246	1
11	249-0112-2	MAIN BLOCK, BRAZE ASSY., VCR	1
12	249-0140-1	EXTERNAL ASSEMBLY	1
13	271-0650-8	WATER FITTING F NUT, VCR-HF, 3/8	2
14	271-0651-8	WATER FITTING GLAND, VCR-HF, 3/8"	2
15	271-3500-1	GASKET, VCR 1/4"	2
16	271-6010-1	VENTED SCREW, #6-32 X 1/4" SST FLAT HEAD	2
17	271-6030-6	VENTED SCREW, #6-32 X 1/4" SST SHCS, SILVER	8
18	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER	9
19	271-6060-6	VENTED SCREW, #6-32 X 1/2" SST SHCS, SILVER	4
20	272-0125-2	COIL CONNECTOR ASSEMBLY	1
21	273-0150-9	EMITTER ASSEMBLY, UHV	1

UNLESS OTHERWISE SPECIFIED GLOBAL TOLERANCES		DWG BY CHECK BY PROJ ENG MFG ENG	DATE DATE DATE DATE	MATERIAL:	TELEMARK telemark.com
INCHES [mm] .X +/- .03 [0.762] .XX +/- .01 [0.254] .XXX +/- .005 [0.127] ANGLES +/- .5° SURF FINISH .63 RMS		DO NOT SCALE DRAWING		FINISH:	
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C		SCALE 1:2 SHEET 1 of 1		DWG NO. 249-0135-1 REV C	



ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	6/5/2010
		B	UPDATE, SCREW TYPE	PWF	8/29/2011
		C	CHANGE EMITTER TO 273-0150-9	PWF	8/21/2013

ITEM NO.	PART NUMBER	DESCRIPTION	249-0135-2/QTY.
1	212-0080-1	COIL ASSEMBLY	1
2	231-0035-1	ROTATION BEARING	1
3	241-0047-1	COIL BLOCK	2
4	241-0053-3	POLE PIECE	4
5	241-0055-1	PERMANENT MAGNET	1
6	241-0084-1	REAR SHIELD	1
7	241-0088-1	MOUNTING STRAP	2
8	244-0058-1	MAGNET ARM, LEFT	1
9	244-0059-1	MAGNET ARM, RIGHT	1
10	246-0087-2	BASE PLATE, 246	1
11	249-0112-3	MAIN BLOCK, BRAZE ASSY., 1.33 CF	1
12	249-0140-1	EXTERNAL ASSEMBLY	1
13	271-3581-1	GASKET, CFF 1.33"	2
14	271-6010-1	VENTED SCREW, #6-32 X 1/4" SST FLAT HEAD	2
15	271-6030-6	VENTED SCREW, #6-32 X 1/4" SST SHCS, SILVER	8
16	271-6050-6	VENTED SCREW, #6-32 X 3/8" SST SHCS, SILVER	9
17	271-6060-6	VENTED SCREW, #6-32 X 1/2" SST SHCS, SILVER	4
18	272-0125-2	COIL CONNECTOR ASSEMBLY	1
19	273-0150-9	EMITTER ASSEMBLY, UHV	1

UNLESS OTHERWISE SPECIFIED
GLOBAL TOLERANCES

	INCHES	[mm]
.X	+/- .03	[0.762]
.XX	+/- .01	[0.254]
.XXX	+/- .005	[0.127]

ANGLES +/- .5°
SURF FINISH .63 RMS

DWG BY
CHECK BY
PROJ ENG
MFG ENG

DATE
DATE
DATE
DATE

DO NOT SCALE DRAWING

FILE NUMBER - 249-0135-1
INITIAL PROJECT - 249

MATERIAL:

FINISH:

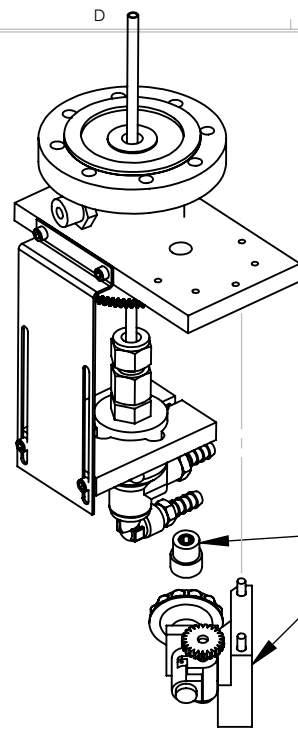
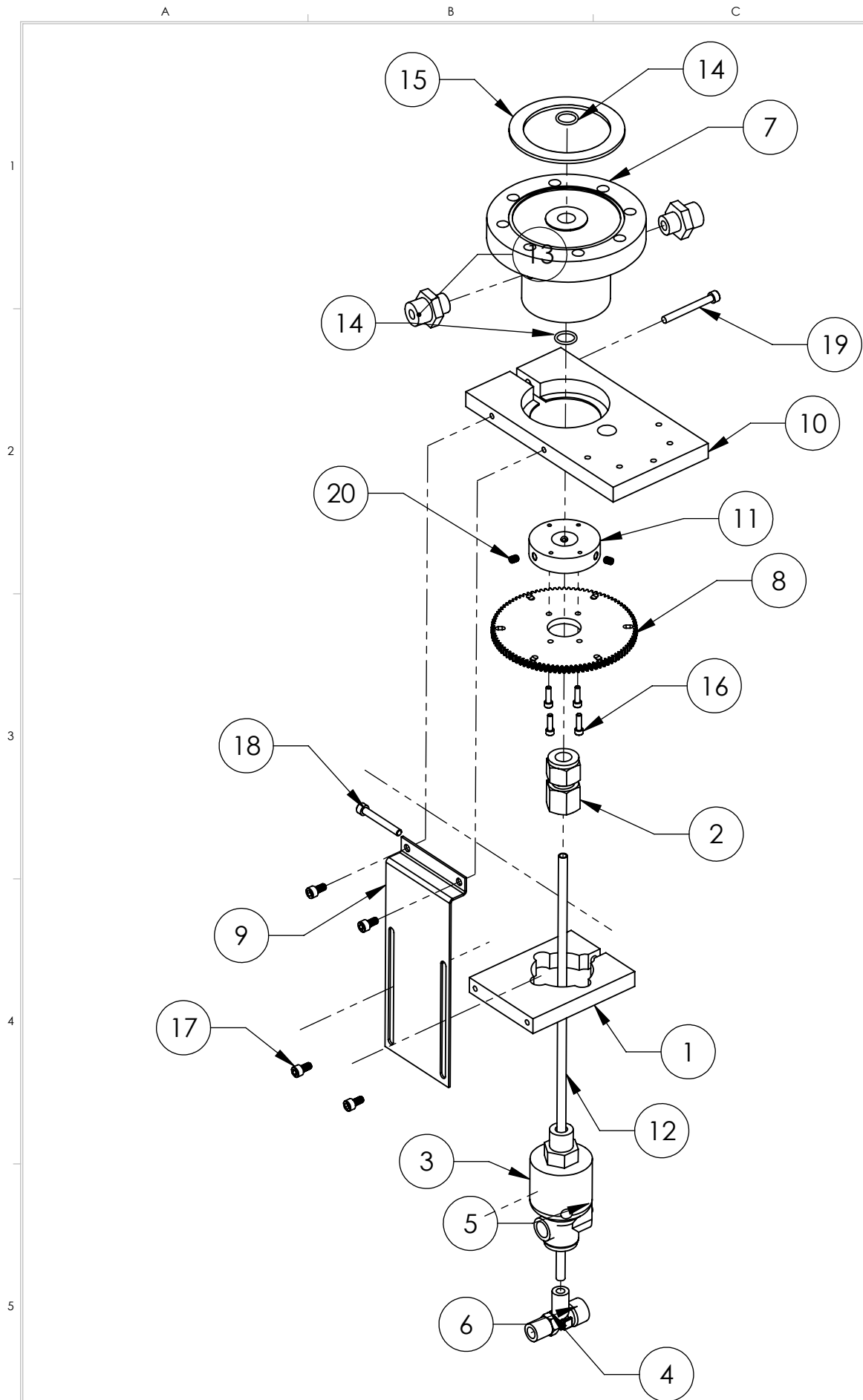
THIRD ANGLE PROJECTION

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**249 SUB ASSEMBLY,
1.33 CF**

SCALE 1:2	DWG NO. 249-0135-2	REV C
SHEET 1 of 1		

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OPTIONAL MANUAL DRIVE 267-9025-1

NOTE:
1. USE PART NUMBER 231-0456-5 TEFLON FERRELL SET FOR REPLACEMENT SEAL IN 231-0456-9
2. CONSULT FACTORY FOR PROPER LENGTH OF PART 248-0455-2 FOR YOUR INSTALLATION

ECN	ZONE	REV	DESCRIPTION	BY	DATE
		A	RELEASE	PWF	6/5/2010
		B	P/N FROM 267-0171-1 TO 267-0171-3	GPD	10/19/2016

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	231-0170-1	UNION CLAMP	1
2	231-0456-1	COMPRESSION FITTING, 12mm X 3/8" NPTF, BRASS, NLYON FERRULES	1
3	231-4020-1	WATER UNION	1
4	231-4022-1	ELBOW, 1/4" X 1/4"	1
5	231-4023-1	WATER FITTING 3/8" NPT X 3/8" TUBE	1
6	231-4024-1	WATER FITTING 1/4" NPT X 3/8" TUBE	1
7	238-4010-1	MAGNETIC SEAL FEEDTHROUGH	1
8	267-0149-1	GEAR	1
9	267-0171-3	UNION STRAP	1
10	248-0160-1	CLAMP	1
11	248-0162-1	GEAR CLAMP	1
12	248-0455-2	WATER INLET TUBE	1
13	271-0671-2	WATER FITTING, 3/8 TUBE X 1/8 ISO TAPER THREAD	2
14	271-2014-1	O-RING, VITON, ID 1/2", W 1/16"	2
15	271-3621-1	GASKET, CFF 4.5" SILVER PLATED	1
16	271-6060-9	SCREW, #6-32 X 1/2" SST SHCS	4
17	271-6145-1	VENTED SCREW, #10-32 UNF X 3/8" SST SHCS	4
18	271-6176-9	SCREW, #10-32 X 1/2" SST SHCS.	1
19	271-6178-9	SCREW, #10-32 X 1-3/4" SST SHCS.	1
20	271-6214-2	SET SCREW, #10-32 X 1/4" SST CUP PT.	3

UNLESS OTHERWISE SPECIFIED		DWG BY	DATE	MATERIAL:	B.O.M	<div>TELEMARK</div> telemark.com	
GLOBAL TOLERANCES		CHECK BY	DATE				
		PROJ ENG	DATE	FINISH:	SEE NOTES		
		MFG ENG	DATE				
INCHES [mm]		DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION		EXTERNAL ASSEMBLY	
.X +/- .03 [0.762]		FILE NUMBER - 249-0140-1					
.XX +/- 0.01 [0.254]		INITIAL PROJECT - 249					
.XXX +/- 0.005 [0.127]							
ANGLES +/- .5°							
SURF FINISH 63 RMS							
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						<div>DWG NO.</div> <div>249-0140-1</div>	
						<div>REV</div> <div>B</div>	

