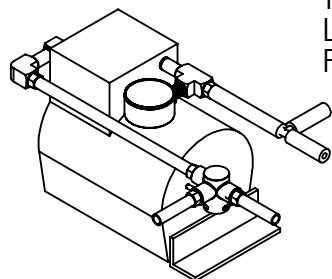
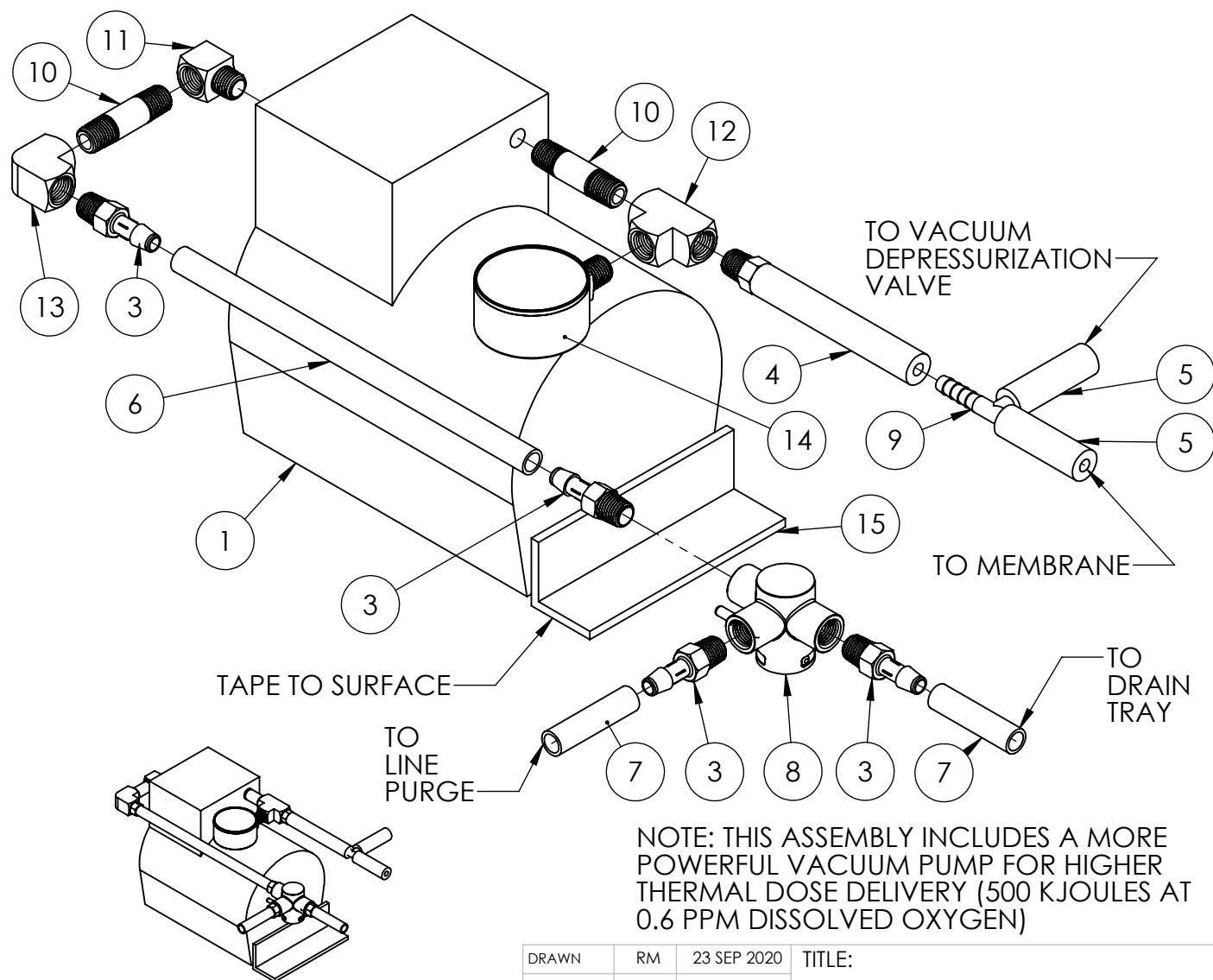


ITEM NO.	DESCRIPTION	PartNo	Size	QTY.
1	THOMAS VACUUM PUMP	GRAINGER #688CE44	1/3 HP, 25 inHg	1
2	Barbed Nylon Tight-Seal	McMaster-Carr #2974K127	1/4" Tube ID, 1/4" NPT	1
3	Barbed Straight Nylon Tight-Seal	McMaster-Carr #2974K133	3/8" tube, 1/4 NPT	4
4	Tygon vacuum tubing	McMaster-Carr #55525K12	1/4" ID, 5/8" OD	1
5	Tygon vacuum tubing	McMaster-Carr #55525K12	1/4" ID, 5/8" OD	2
6	Tygon tubing	McMaster-Carr #6516T26	3/8" ID, 1/2" OD	1
7	Tygon tubing	McMaster-Carr #6516T26	3/8" ID, 1/2" OD	2
8	EZ-Clean Polypropylene Ball Valve	McMaster-Carr #45695K221	1/4" NPT	1
9	Barbed Tee Nylon	McMaster-Carr #5372K613	1/4" tube	1
10	PVC NIPPLE	MCMaster-CARR #4882K26	1/4 NPT, 2" LENGTH	2
11	BRASS STREET ELBOW	MCMaster-CARR #50785K43	1/4 NPT MALE, 1/4 NPT FEMALE	1
12	BRASS TEE	MCMaster-CARR #50785K72	3X 1/4 NPT FEMALE	1
13	BRASS 90 DEG. ELBOW	MCMaster-CARR #50785K36	1/4 NPT FEMALE, 1/4 NPT FEMALE	1
14	VACUUM GAUGE	GRAINGER #4FLT5	1/4 NPT, 2" DIAL, 30-0 inHG, 100-0 kPa	1
15	FIBERGLASS THERMAL PROTECTION ANGLE	MCMaster-CARR #8542K81	1.5" x 1.5" x 5"	1



ASSEMBLED VIEW  
SCALE 1:8

NOTE: THIS ASSEMBLY INCLUDES A MORE POWERFUL VACUUM PUMP FOR HIGHER THERMAL DOSE DELIVERY (500 KJOULES AT 0.6 PPM DISSOLVED OXYGEN)

DRAWN RM 23 SEP 2020

CHECKED

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

FRACTIONAL:  $\pm 1/64$ "

ANGULAR:  $\pm 1^\circ$

TWO PLACE DECIMAL:  $\pm 0.063$

THREE PLACE DECIMAL:  $\pm 0.003$

FOUR PLACE DECIMAL:  $\pm 0.001$

TITLE:

2020-09-23 Vacuum Asm

REV: B

MATERIAL

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QTY: 1

SCALE: 1:3

SHEET 1 OF 1

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