

SHIM UNDER LUGS

TEMPLATE REF ONLY

REVISIONS			
NO.	DATE	BY	REMARKS



BULK BRINEMAKER SILO GENERAL ARRANGEMENT			
FRAC.	DEC.	FILE ID.	
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CHOP / HOOP FILAMENT WOUND FIBERGLASS FABRICATION NOTES

1. LINER TO BE ISOPHTHALIC POLYESTER/C-VEIL WITH MEKP CURE 100 MIL THICK.
2. STRUCTURAL TO BE ISOPHTHALIC POLYESTER WITH MEKP CURE, 0.07" PER LAYER.
3. EXTERIOR WHITE WAX COAT TO CONTAIN 3% STYWAX AND 0.25% UV-9.
4. FABRICATED TO APPLICABLE SECTIONS OF ASTM D3299.
5. SOME ITEMS MAY BE ROTATED OR OMITTED IN ELEVATION VIEW FOR CLARITY. SEE TOP VIEW FOR TRUE ORIENTATION.
6. ELEVATIONS ARE FROM OUTSIDE BOTTOM.
7. PROJECTIONS ARE FROM OUTSIDE SHELL.
8. ALL NOZZLE LOADS TO BE INDEPENDENTLY REACTED BY OTHERS.
9. ALL NOZZLES ARE ANSI B16.5 150# HOLE PATTERN, FLAT FACE UNLESS OTHERWISE NOTED.
10. ALL FLANGED NOZZLES TO BE SPOT FACED.
11. BOLT HOLES TO STRADDLE RADIAL CENTERLINES.
12. BOLT TORQUE TO BE 30-35 FT.-LB. MAXIMUM.
13. ALL FLANGES WITHOUT BLINDS TO BE COVERED WITH PLYWOOD PRIOR TO SHIPMENT.
14. FASTENERS AND GASKETS FOR SERVICE BY OTHERS UNLESS OTHERWISE NOTED.
15. FASTENERS TO BE 304SS UNLESS OTHERWISE NOTED.

LAMINATE SEQUENCE SYMBOLS

- V - 10 MIL THICK "C" GLASS VEIL 7% GLASS CONTENT.
- C - 45 MIL THICK 1.5 OZ./SQ. FT. CHOPPED "E" GLASS ROVING 30% GLASS CONTENT.
- M - 38 MIL THICK 1.5 OZ./SQ. FT. CHOPPED "E" GLASS MAT 30% GLASS CONTENT.
- R - 70 MIL THICK 28.3 OZ./SQ. YD. GLASS WOVEN ROVING 45% GLASS CONTENT.
- N - 15 - 20 MIL THICK APERTURED NEXUS VEIL.
- CH - 70 MIL THICK 2.4 OZ./SQ. FT. CHOPPED "E" GLASS ROVING AND 68 STRANDS OF 250 YIELD CONTINUOUS "E" GLASS HOOP STRANDS 50% GLASS CONTENT.

WARNING NOTES - FAILURE TO COMPLY WITH THE FOLLOWING NOTES WILL VOID WARRANTY

*THIS TANK DESIGNED FOR ATMOSPHERIC PRESSURE ONLY (MUST BE VENTED)  
ALL CLOSED TOP TANKS MUST HAVE A VENT OF EQUAL OR GREATER SIZE THAN  
THE LARGEST INLET OR OUTLET.*

*VENT IS DESIGNED FOR COMPRESSED AIR UNLOADING.*

*A COMBINATION VENT/OVERFLOW FLANGE INCREASES THE POTENTIAL FOR TANK  
PRESSURIZATION IF THE OVERFLOW BECOMES CLOGGED.*

*FOUNDATION PAD MUST BE FABRICATED UNIFORM IN TEXTURE AND APPEARANCE, AND  
MEET A SURFACE PLANE TOLERANCE (1/8" IN 10 FEET). PAD MUST BE DESIGNED FOR A  
FULLY LOADED TANK, SOIL PROPERTIES AND FREEZE / THAW FORCES.  
SPECIAL ATTENTION MUST BE GIVEN TO THE BOTTOM EDGE OF THE TANK. THIS EDGE  
MUST BE IN COMPLETE CONTACT WITH THE PAD.*

*SHIMMING UNDER HOLD-DOWN LUGS (IF REQUIRED) SHOULD BE DONE WITH TANK  
1/4 TO 1/3 FULL OF WATER. DO NOT TIGHTEN ANCHOR BOLTS WITHOUT SHIMMING  
UNDER THE LUGS TO AVOID DAMAGING STRESSES ON THE TANK.*

DESIGN CONDITIONS MUST BE PROVIDED TO CONFIRM CORROSION RESISTANCE OF RESIN SELECTION  
WARRANTY VOID IF DESIGN CONDITIONS ARE NOT SUPPLIED.

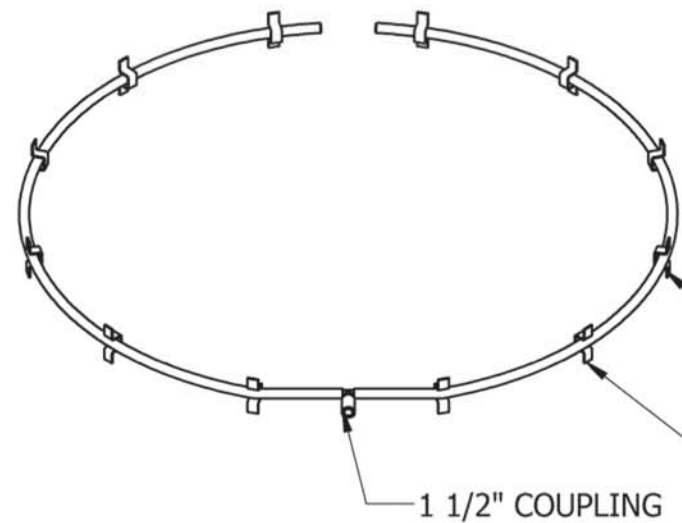
DESIGN CONDITIONS

CHEMICAL ENVIRONMENT: SALT BRINE SATURATED  
MAX. TEMP: 100° F  
PRESSURE: ATMOSPHERIC  
VACUUM: ATMOSPHERIC  
SPECIFIC GRAVITY: 1.3  
WIND: 0  
SEISMIC ZONE: N/A

EQUIPMENT NO.:  
SERIAL NUMBER:

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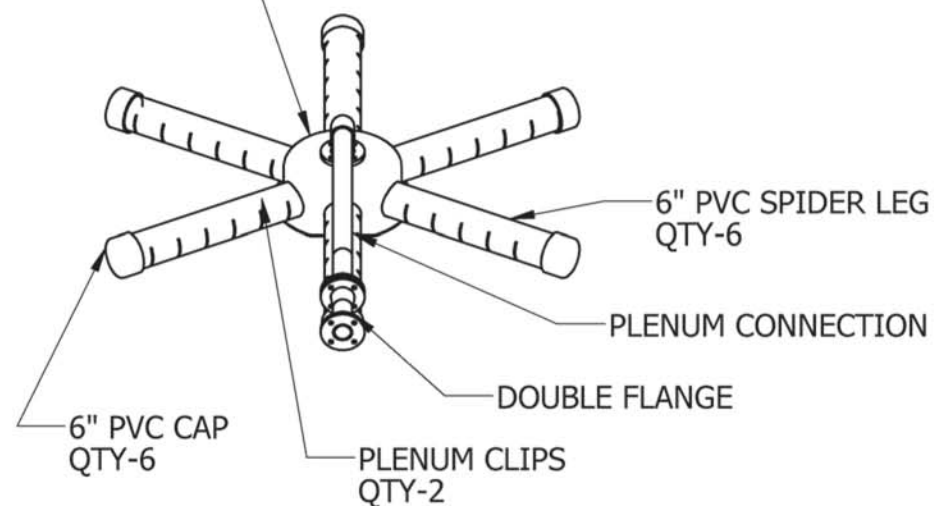
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**SPRAY RING ASSEMBLY**

BLACK POLY PIPES  
DRILL 3/16" HOLES ON 12" CENTERS  
INTO 1 1/2" BLACK POLY PIPES.  
HOLES TO FACE TOWARD CENTER OF TANK.

BRINE PLENUM



**BRINE OUTLET ASSEMBLY**

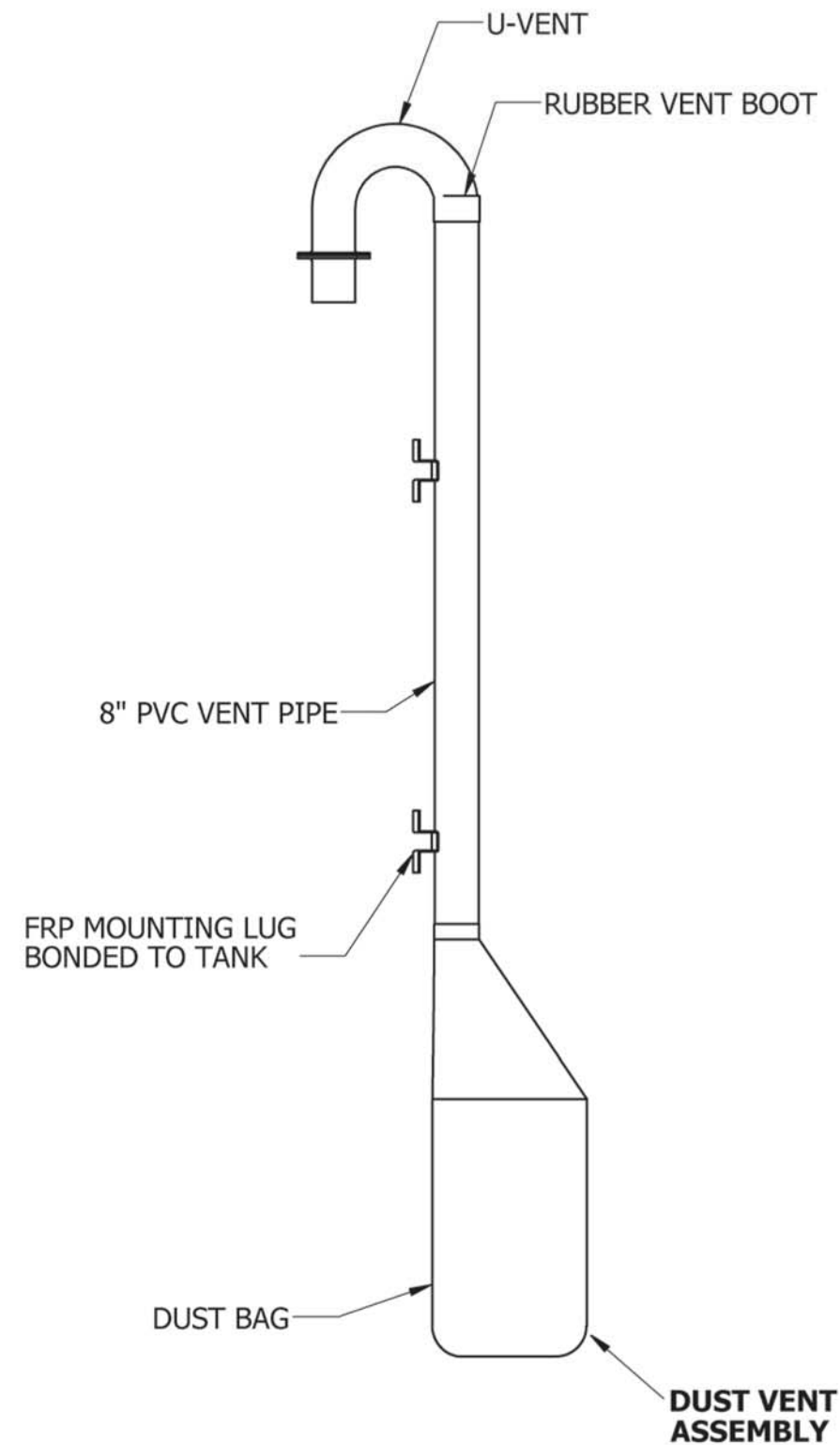
6" PVC SPIDER LEG  
QTY-6

PLENUM CONNECTION

DOUBLE FLANGE

6" PVC CAP  
QTY-6

PLENUM CLIPS  
QTY-2



U-VENT

RUBBER VENT BOOT

8" PVC VENT PIPE

FRP MOUNTING LUG  
BONDED TO TANK

DUST BAG

**DUST VENT ASSEMBLY**

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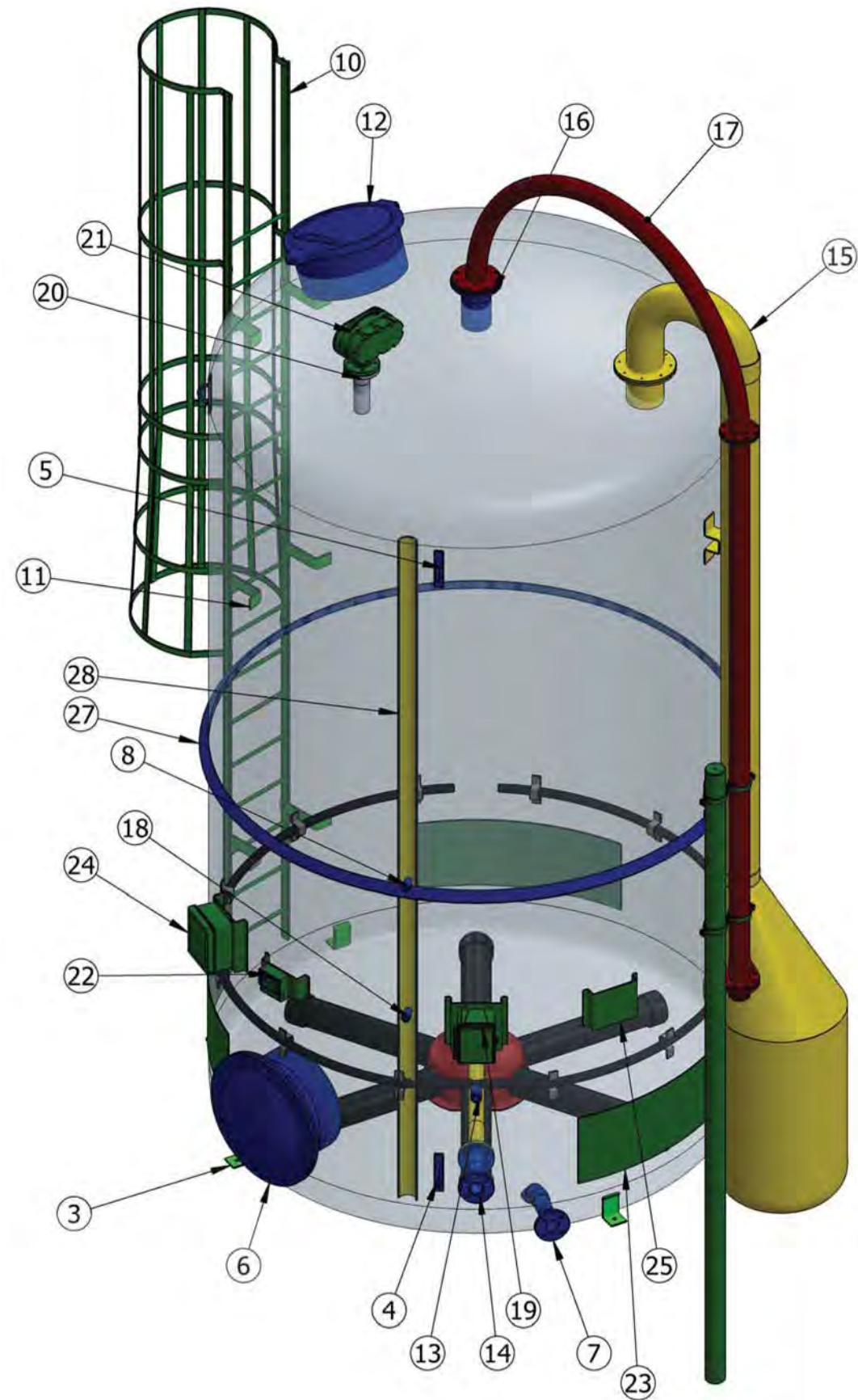
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ITEM	QTY.	DESCRIPTION	PROJECTION	ORIENTATION	ELEVATION	RADIUS FROM EDGE	NOTES
1	1	ADHESIVE I.D. LABEL					
2	1	FRP SILO					
3	4	HEAVY DUTY HOLD DOWN 304SS WITH HOLE					
4	1	HEAVY DUTY FOAM 304 SS LIFT LUG					
5	3	HEAVY DUTY 304 SS LIFT LUG					
6	1	24" 15# SIDE MANWAY/EPDM/VE/MEKP/C-VEIL, WHITE	7"	90°	24"		
7	1	3" CONICAL GUSSET SIPHON FLANGE/VE/MEKP	6"	30°	6"		
8	1	1" MODIFIED COUPLING FOR TUNING FORK SENSOR VE/MEKP	1 1/4"	60°	96"		UPPER WATER LEVEL SENSOR
9	1	CONTENTS LABEL					
10	1	TOP ACCESS LADDER (CAGE OPTIONAL)		180°	1/2"		OPTIONAL ACCESSORY
11	3	EPOXY CARBON STEEL LADDER STANDOFF SET (2)/INSULATED		180°			
12	1	24" QUICK ACCESS MANWAY WITH WEIGHTED COVER /VE/MEKP/WHITE	6"	180°		20 "	OPTIONAL ACCESSORY (COVER SHIPS LOOSE)
13	1	1 1/2" WATER INLET SPRAY RING ASSEMBLY	2"	45°	40"		
14	1	3" CONICAL GUSSET BRINE OUTLET DOUBLE FLANGE	6"	45°	18"		
15	1	8" DUCT FLANGE U-SALT DUST VENT ASSEMBLY	6"	345°		16 1/2"	
16	1	6" CONICAL GUSSET FLANGE VE/MEKP	6"	TDC			
17	1	CURVED STAINLESS STEEL SALT FILL PIPE ASSEMBLY W/ GALVANIZED IN GROUND SUPPORT PIPE		0°			SUPPORT PIPE OPTIONAL ACCESSORY
18	1	1" MODIFIED COUPLING FOR TUNING FORK SENSOR VE/MEKP	1 1/4"	60°	60"		LOWER WATER LEVEL SENSOR
19	1	WATER LEVEL CONTROL BOX ASSEMBLY W/ FRP MOUNTING BRACKETS		45°	60"		OPTIONAL ACCESSORY
20	1	3" CONICAL GUSSET FLANGE VE/MEKP	6"	90°		24"	REQUIRED IF SMART BOB OPTION CHOSEN
21	1	SMARTBOB SALT LEVEL SENSOR W / PVC VANSTONE FLANGE		90°			OPTIONAL ACCESSORY (SHIPS LOOSE)
22	1	SALT LEVEL SYSTEM DISPLAY W / FRP MOUNTING BRACKETS		90°	60"		
23	1	3 PANEL HEAT SYSTEM					OPTIONAL ACCESSORY PANEL QUANTITY VARIABLE
24	1	HEAT PANEL CONTROL BOX W FRP MOUNTING BRACKETS		110°	60"		HEAT SYSTEM OPTIONAL ACCESSORY
25	1	FRP NAME PLATE W FRP MOUNTING BRACKET		15°	60"		REQUIRED IF INSULATION OPTION CHOSEN
26	1	DRY HEAT POST CURE					
27	1	2" THICK POLYURETHANE INSULATION WITH WHITE OVERCOAT					INSULATATION TO EXTEND 96" UP THE TANK SIDE WALL (REQUIRED IF HEAT SYSTEM CHOSEN)
28	1	4" STILLING WELL		60°	9"		

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**TANK SHELL SHOWN PARTIALLY TRANSPARENT TO SHOW INTERNAL DETAILS**

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