

"Quality Is Our Standard...  
Customer Service Is Our Specialty"



**BROCHURE**  
**10-2026**

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 (616) 794-3666



200 N. Gooding Street – P.O. Box 160 – Belding, MI 48809-0160

 Toll Free: (800) 253-4252

Use the following checklist to provide **Belding Tank®** sales representative with the information to properly design a tank for your particular service conditions.

- ☐ Any customer generated specifications that must be followed.
- ☐ Working capacity of the proposed tank.
- ☐ Tank model designation (see explanation below).
- ☐ Desired tank diameter, if critical.
- ☐ Height, width and weight limitations.
- ☐ Material to be stored in the tank, including concentrations and specific gravity.
- ☐ Minimum and maximum temperature conditions.
- ☐ Destination of tank installation along with indoor or outdoor installation. (seismic, wind & snow design)
- ☐ Manways, fittings and accessories to be provided, and their description.
- ☐ Manway / Flange gasket and bolt materials.
- ☐ Any exterior colored gel coat requirements. Clear resin top coat with U.V. inhibitor is standard.
- ☐ Maximum flame spread rating requirement, if fire retardant resin is specified.
- ☐ Insulation requirements.
- ☐ Heat maintenance system requirements (i.e. Maintain Temp. & Outside Ambient Temp.).
- ☐ Any special test procedures to be followed (i.e. water fill / hydro test).

Tanks intended for agitator service require the following information:

- ☐ Agitator mounting position - Tank Top or Sidewall.
- ☐ Weight of agitator with shaft and propeller (lbs.).
- ☐ Downward load when running (lbs.).
- ☐ Maximum torque (in-lbs.).
- ☐ Maximum bending moment (in-lbs.).
- ☐ Agitator mounting style - Flange or Rail.
- ☐ Anti-swirl baffles, normally 1/12th the tank diameter for width, 2" stand-off from tank wall and and a quantity of 3 or 4, per mixer manufacturer.

## **Belding Tank®** Model Designation:

Dome Top, Flat Bottom, Vertical Sidewall  
See Page 3 for Standard Model descriptions

Tank nominal capacity (U.S. Gallons)  
Capacities are figured to the top of the tank straight side.

**MODEL C-DFV-9-4500**

Cylindrical

Tank nominal inside diameter (feet)

*See "Capacity Charts Book" for each specific model and sizing.*



At Belding Tank Technologies, our mission is to engineer and manufacture superior fiberglass tanks that provide safe, reliable and sustainable storage solutions. We are dedicated to serving our customers with innovation, integrity and unmatched craftsmanship while fostering long term partnerships built on trust and performance.



As a renowned leader in the fiberglass industry, with over 100 years of combined experience, **Belding Tank®**, located in Belding, Michigan, continues to provide quality tanks and excellent customer service from one of the newest facilities in the industry. We operate with over 35,000 square feet of manufacturing space located on ten plus acres.

We manufacture a wide variety of custom filament wound and contact molded tanks with sizes ranging from 1.5 feet to 25 feet in diameter.

We feature flat bottom, slope bottom, dish bottom, cone bottom, horizontal and double wall tank design. Whatever your needs, you can bet **Belding Tank®** has a quality tank for you.

We're proud of our reputation for superior products and customer service. When it comes to fiberglass tanks, we'll work closely with you through every step of the process to ensure you get exactly what you need.

## FLAT BOTTOM MODELS



**OFV**

Open Top



**DFV**

Dome Top



**FFV**

Flat Top

Page 4

## INTERNAL SLOPED BOTTOM MODELS



**OSV-I**

Open Top



**DSV-I**

Dome Top



**FSV-I**

Flat Top

Page 5

## EXTERNAL SLOPED BOTTOM MODELS



**OSV-X**

Open Top



**DSV-X**

Dome Top



**FSV-X**

Flat Top

Page 6

## DISHED BOTTOM MODELS



**ODV**

Open Top



**DDV**

Dome Top



**FDV**

Flat Top

Page 7

## CONE BOTTOM MODELS



**OKV**

Open Top



**DKV**

Dome Top



**FKV**

Flat Top

Page 8

## HORIZONTAL MODELS



**DDH**

Dished Ends

Page 9

## Tank Components

**Manways**

**Fittings**

**Accessories**

**Dual-Tek**

**Brine-Tek**

**Rectangular**

**Field Assembled**

**Pickle Tanks**

**Construction**

**Handling & Installation**

**Warranty**

**Terms of Sale**

**Chemical - Tank Guidelines**

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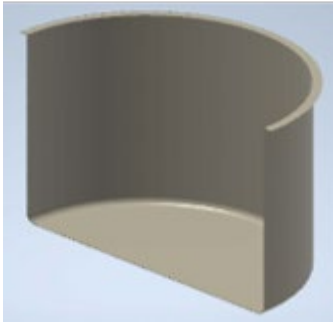
Page 29

Pages 30 - 31

## FLAT BOTTOMS

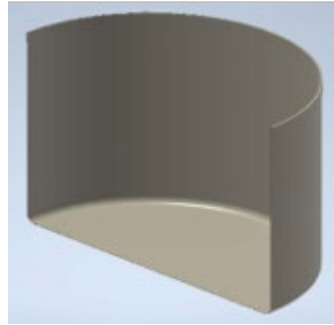
### General Notes:

1. Standard construction method for tank diameters smaller than 72" is Contact Molded.
2. Standard construction method for tank diameters larger than 72" is Filament Wound.
3. Lifting lugs are required for handling.



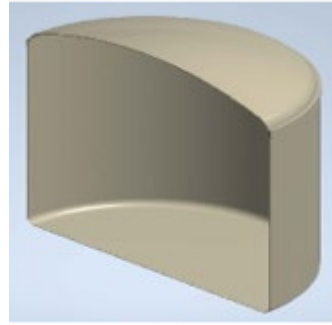
Open Top - 90°

**OFV**



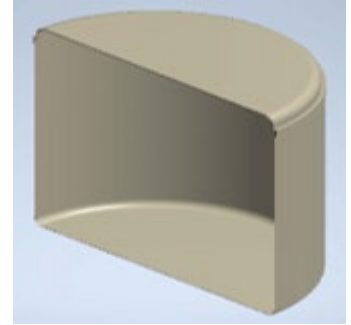
Open Top - Type II

**OFV**



Dome Top

**DFV**



Flat Top

**FFV**

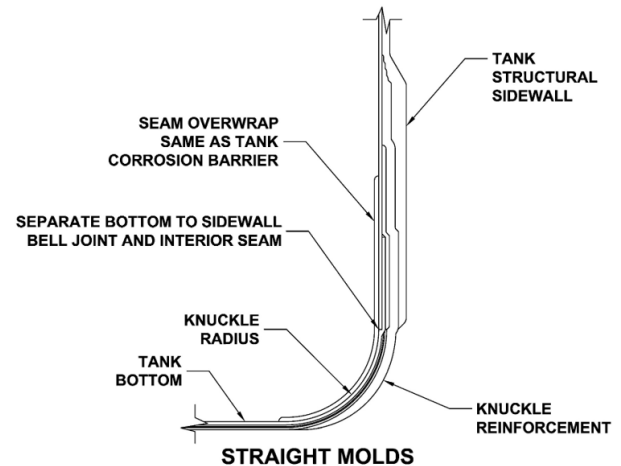
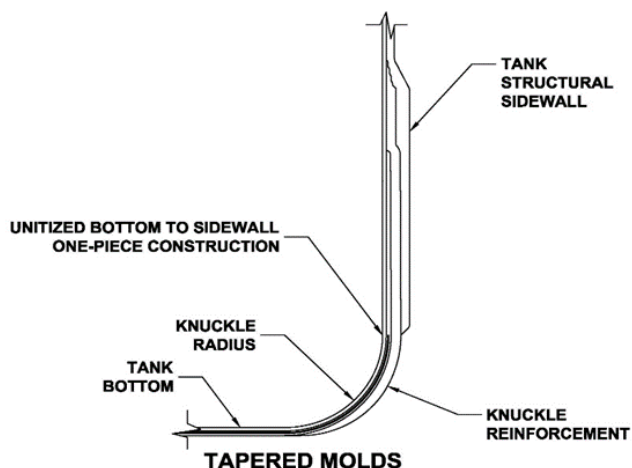
Flat Covers Are Optional

See Dome Head Depth Chart

- Flat Bottom Tapered Mold tanks are our most cost effective product line we build.
- Every **Belding Tank®** flat bottom is constructed with a minimum 3" knuckle radius.
- All our tapered molds incorporate a **UNITIZED ONE-PIECE BOTTOM TO SIDEWALL CONSTRUCTION**, providing a seamless transition.
- The knuckle radius provides maximum resistance against hydrostatic pressures and optimize cleanability to help eliminate product contamination.
- The tank bottoms are designed to be fully supported by the customer's support pad.

**Dome Head Depth Chart**

| DIA.<br>Inches | Head<br>Depth | DIA.<br>Inches | Head<br>Depth |
|----------------|---------------|----------------|---------------|
| 18             | 3             | 84             | 14            |
| 24             | 4             | 90             | 15            |
| 30             | 5             | 96             | 16            |
| 36             | 6             | 108            | 18            |
| 42             | 7             | 120            | 20            |
| 48             | 8             | 132            | 22            |
| 54             | 9             | 138            | 23            |
| 60             | 10            | 144            | 24            |
| 66             | 11            | 156            | 26            |
| 72             | 12            | 168            | 28            |

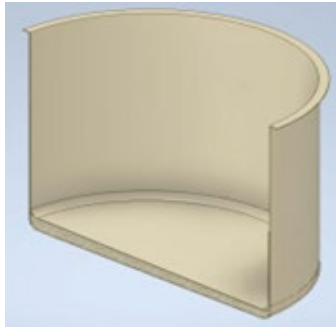


**See B.T.T. Capacity Charts Book - Flat Bottoms for all tank diameters and mold types.**

### General Notes:

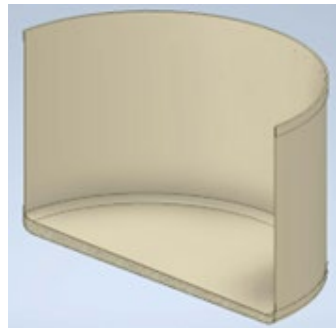
1. Standard construction method for tank diameters smaller than 72" is Contact Molded.
2. Standard construction method for tank diameters larger than 72" is Filament Wound.
3. Lifting lugs are required for handling.
4. 1" Minor and 1/4" per foot standard internal slope. Other minors and slopes are available upon request.

## INTERNAL SLOPED BOTTOMS



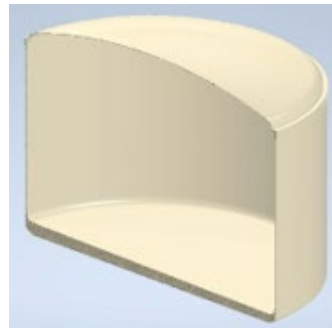
Open Top - 90°

**OSV-I**



Open Top - Type II

**OSV-I**



Dome Top

**DSV-I**

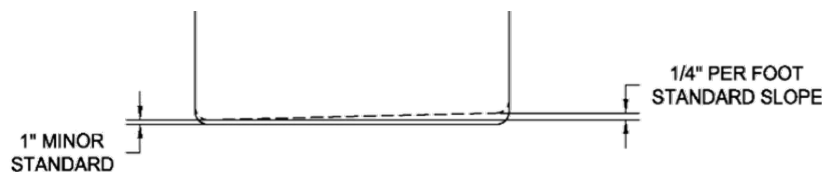


Flat Top

**FSV-I**

Flat Covers Are Optional

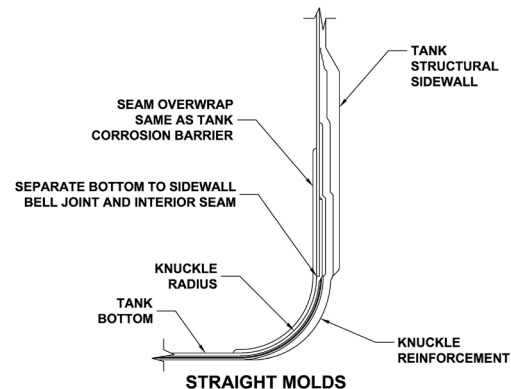
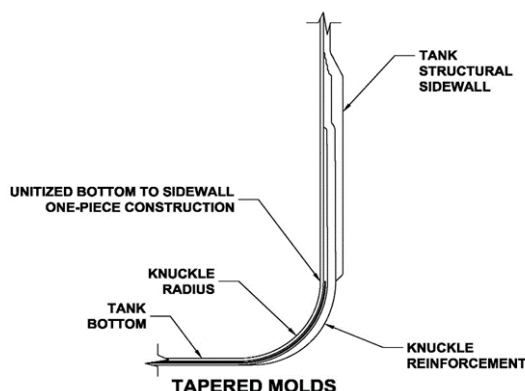
See Dome Head Depth Chart



- Looks like a flat bottom tank from the outside, with the internal bottom sloping 1/4" per foot from the high side to the low side, providing near full drain.
- Every **Belding Tank®** internal sloped bottom is constructed with a minimum 3" knuckle radius.
- All our tapered molds 66" diameter and greater, incorporate a **UNITIZED ONE-PIECE BOTTOM TO SIDEWALL CONSTRUCTION**, providing a seamless transition.
- The knuckle radius provides maximum resistance against hydrostatic pressures and optimize cleanability to help eliminate product contamination.
- The tank bottoms are designed to be fully supported by the customer's support pad.

**Dome Head Depth Chart**

| DIA.<br>Inches | Head<br>Depth | DIA.<br>Inches | Head<br>Depth |
|----------------|---------------|----------------|---------------|
| 18             | 3             | 84             | 14            |
| 24             | 4             | 90             | 15            |
| 30             | 5             | 96             | 16            |
| 36             | 6             | 108            | 18            |
| 42             | 7             | 120            | 20            |
| 48             | 8             | 132            | 22            |
| 54             | 9             | 138            | 23            |
| 60             | 10            | 144            | 24            |
| 66             | 11            | 156            | 26            |
| 72             | 12            | 168            | 28            |

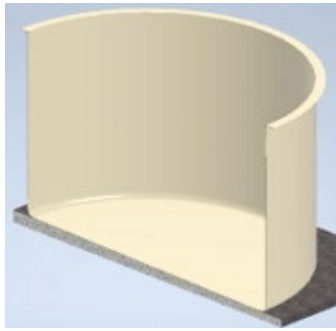


See **B.T.T. Capacity Charts Book - INTERNAL Sloped Bottoms for all tank diameters and mold types.**

## EXTERNAL SLOPED BOTTOMS

### General Notes:

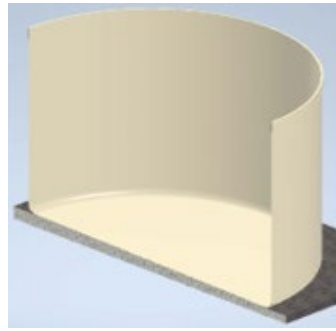
1. Standard construction method for tank diameters smaller than 72" is Contact Molded.
2. Standard construction method for tank diameters larger than 72" is Filament Wound.
3. Lifting lugs are required for handling.
4. 1/4" per foot standard external slope. Customer's support pad is to match tank bottom.



Open Top - 90°

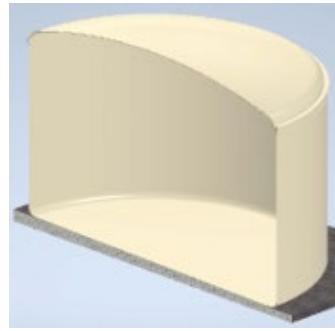
**OSV-X**

Flat Covers Are Optional



Open Top - Type II

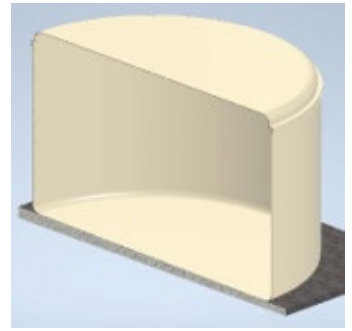
**OSV-X**



Dome Top

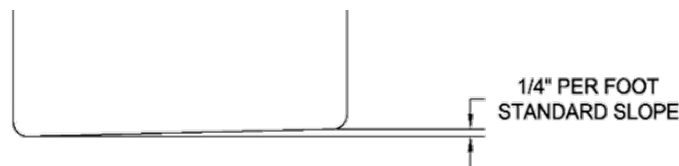
**DSV-X**

See Dome Head Depth Chart Pg. 13



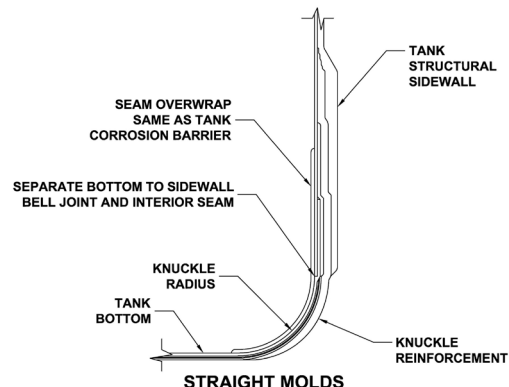
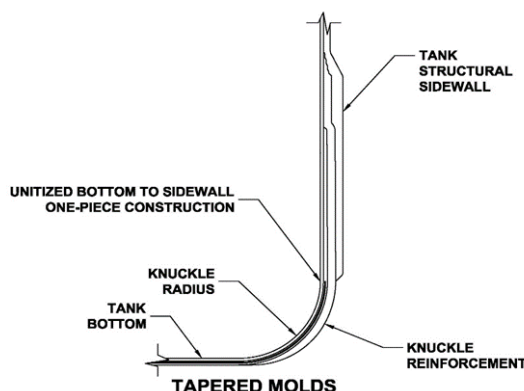
Flat Top

**FSV-X**



- External bottom sloping 1/4" per foot from the high side to the low side, providing near full drain. CUSTOMER'S PAD MUST MATCH SLOPE.
- Every **Belding Tank®** external sloped bottom is constructed with a minimum 3" knuckle radius.
- All our tapered molds 66" diameter and greater, incorporate a **UNITIZED ONE-PIECE BOTTOM TO SIDEWALL CONSTRUCTION**, providing a seamless transition.
- The knuckle radius provides maximum resistance against hydrostatic pressures and optimize cleanability to help eliminate product contamination.
- The tank bottoms are designed to be fully supported by the customer's support pad.

| Dome Head Depth Chart |               |                |               |
|-----------------------|---------------|----------------|---------------|
| DIA.<br>Inches        | Head<br>Depth | DIA.<br>Inches | Head<br>Depth |
| 18                    | 3             | 84             | 14            |
| 24                    | 4             | 90             | 15            |
| 30                    | 5             | 96             | 16            |
| 36                    | 6             | 108            | 18            |
| 42                    | 7             | 120            | 20            |
| 48                    | 8             | 132            | 22            |
| 54                    | 9             | 138            | 23            |
| 60                    | 10            | 144            | 24            |
| 66                    | 11            | 156            | 26            |
| 72                    | 12            | 168            | 28            |



See **B.T.T. Capacity Charts Book - EXTERNAL Sloped Bottoms** for all tank diameters and mold types.

### General Notes:

1. Standard construction method for tank diameters smaller than 72" is Contact Molded.
2. Standard construction method for tank diameters larger than 72" is Filament Wound.
3. Standard support is primed carbon steel pipe legs with floor flanges and 18" underclearance.
4. Lifting lugs are required for handling.

## DISHED BOTTOMS



Open Top - 90°

**ODV**



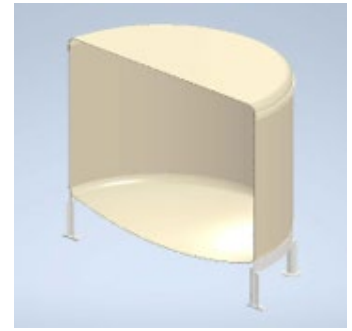
Open Top - Type II

**ODV**



Dome Top

**DDV**



Flat Top

**FDV**

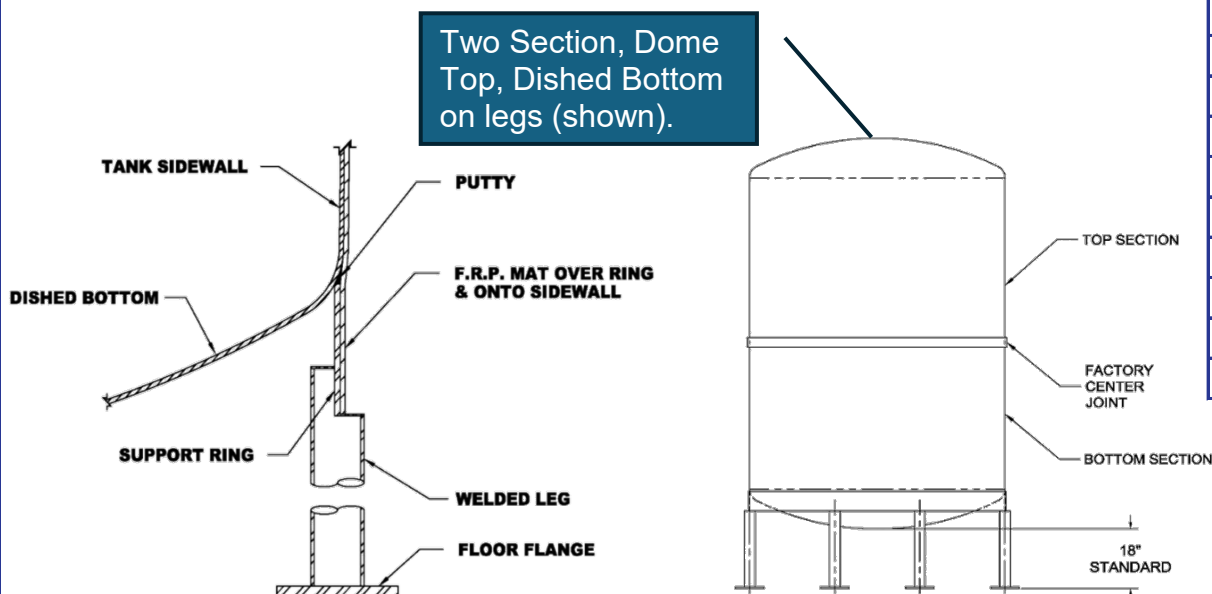
Flat Covers Are Optional

See Dome Head Depth Chart

- All dished heads are ASME Flanged & Dished and include a 6% knuckle radius.
- All our tapered molds 66" diameter and greater, incorporate a **UNITIZED ONE-PIECE BOTTOM TO SIDEWALL CONSTRUCTION**, providing a seamless transition.
- The standard support structure for dished bottom tanks is a carbon steel primed leg stand. Other material options include painted steel, stainless steel and FRP.
- Leg stands and FRP skirt supports provide full circumference contact with the dished head helping to eliminate uneven stresses on the tank wall. The steel support rings are overlayed with fiberglass for added resistance against chemical attack.

**Head Chart**

| DIA.<br>Inches | Dish<br>Depth | Dish<br>Cap. |
|----------------|---------------|--------------|
| 18             | 3             | 2            |
| 24             | 4             | 4            |
| 30             | 5             | 9            |
| 36             | 6             | 13           |
| 42             | 7             | 25           |
| 48             | 8             | 34           |
| 54             | 9             | 55           |
| 60             | 10            | 71           |
| 66             | 11            | 92           |
| 72             | 12            | 120          |
| 84             | 14            | 194          |
| 90             | 15            | 236          |
| 96             | 16            | 292          |
| 108            | 18            | 404          |
| 120            | 20            | 578          |
| 132            | 22            | 756          |
| 138            | 23            | 877          |
| 144            | 24            | 1025         |
| 156            | 26            | 1331         |
| 168            | 28            | 1535         |

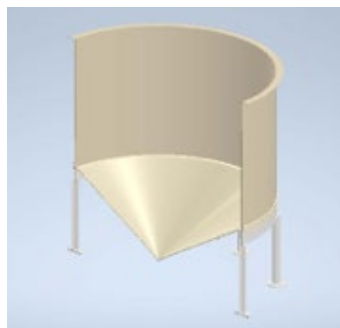
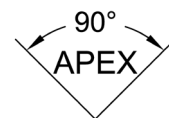


See *B.T.T. Capacity Charts Book - Dished Bottoms for all tank diameters and mold types.*

## CONE BOTTOMS

### General Notes:

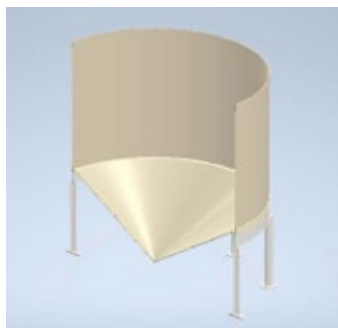
1. Standard construction method for tank diameters smaller than 72" is Contact Molded.
2. Standard construction method for tank diameters larger than 72" is Filament Wound.
3. Standard support is primed carbon steel pipe legs with floor flanges.
4. Lifting lugs are required for handling.



Open Top - 90°

**OKV**

Flat Covers Are Optional



Open Top - Type II

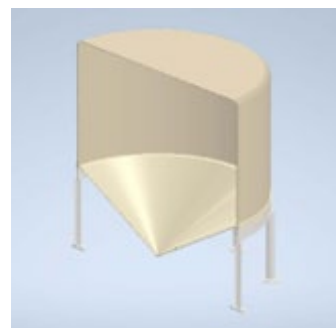
**OKV**



Dome Top

**DKV**

See Head Chart



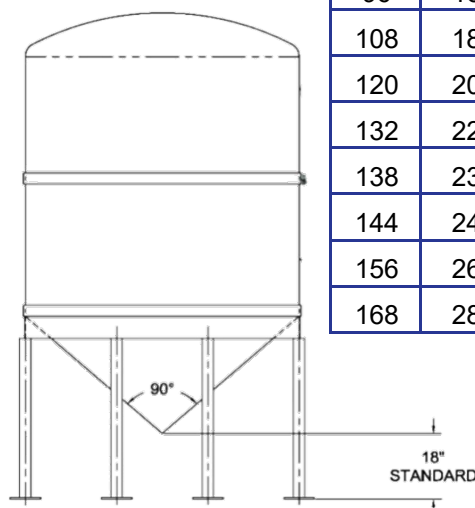
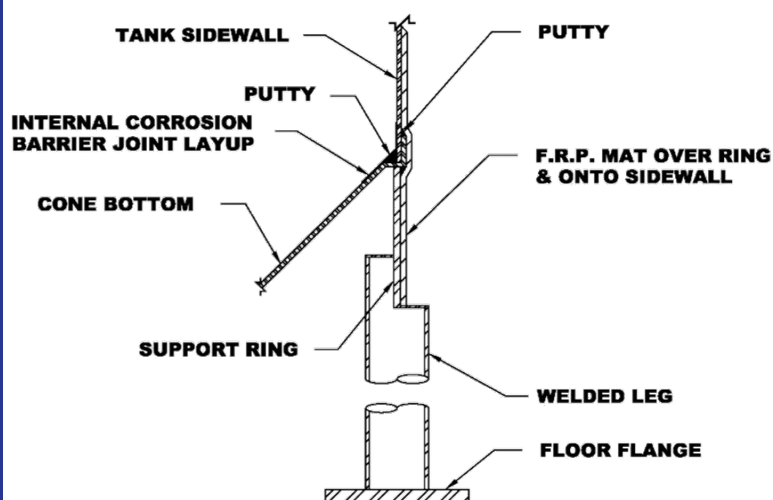
Flat Top

**FKV**

- **Belding Tank's®** cone bottoms provide Full Drain capability.
- The standard cone bottoms have a 90° included angle at the apex. Other cone angles are available upon request. Special design consideration is required.
- The standard support structure for dished bottom tanks is a carbon steel primed leg stand. Other material options include painted steel, stainless steel and FRP.
- Leg stands and FRP skirt supports provide full circumference contact with the cone head helping to eliminate uneven stresses on the tank wall. The steel support rings are overlayed with fiberglass for added resistance against chemical attack.

### Head Chart

| DIA.<br>Inches | Dome<br>Depth | Cone<br>Depth | Cone<br>Cap. |
|----------------|---------------|---------------|--------------|
| 18             | 3             | 9             | 3            |
| 24             | 4             | 12            | 7            |
| 30             | 5             | 15            | 15           |
| 36             | 6             | 15            | 15           |
| 42             | 7             | 21            | 41           |
| 48             | 8             | 21            | 43           |
| 54             | 9             | 27            | 89           |
| 60             | 10            | 28            | 97           |
| 66             | 11            | 30            | 124          |
| 72             | 12            | 33            | 166          |
| 84             | 14            | 39            | 277          |
| 90             | 15            | 42            | 333          |
| 96             | 16            | 45            | 422          |
| 108            | 18            | 51            | 595          |
| 120            | 20            | 58            | 864          |
| 132            | 22            | 63            | 1140         |
| 138            | 23            | 66            | 1327         |
| 144            | 24            | 70            | 1522         |
| 156            | 26            | 78            | 2151         |
| 168            | 28            | 82            | 2505         |

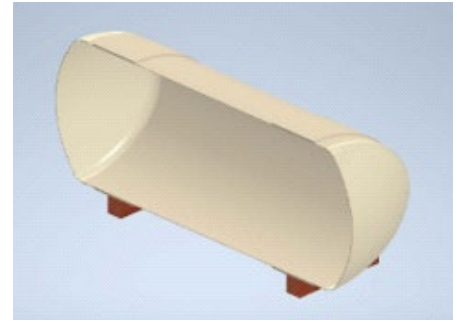
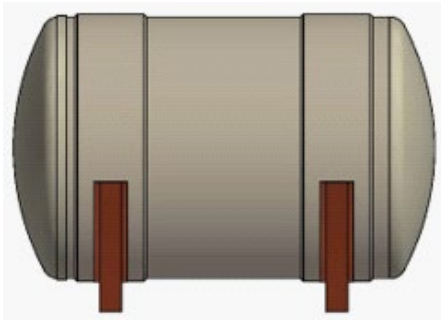


**See B.T.T. Capacity Charts Book - Cone Bottoms for all tank diameters and mold types.**

### General Notes:

1. Standard construction method for tank diameters smaller than 72" is Contact Molded.
2. Standard construction method for tank diameters larger than 72" is Filament Wound.
3. Standard support is primed carbon steel saddles.
4. Lifting lugs are required for handling.

## HORIZONTALS



Dished Ends - Horizontal

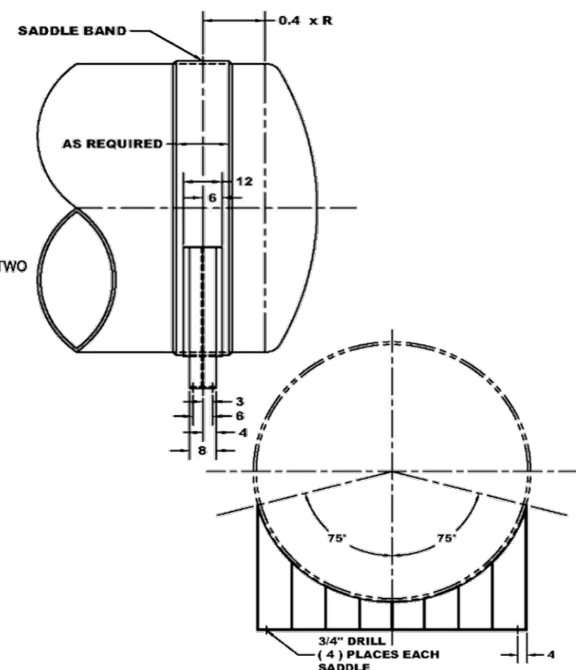
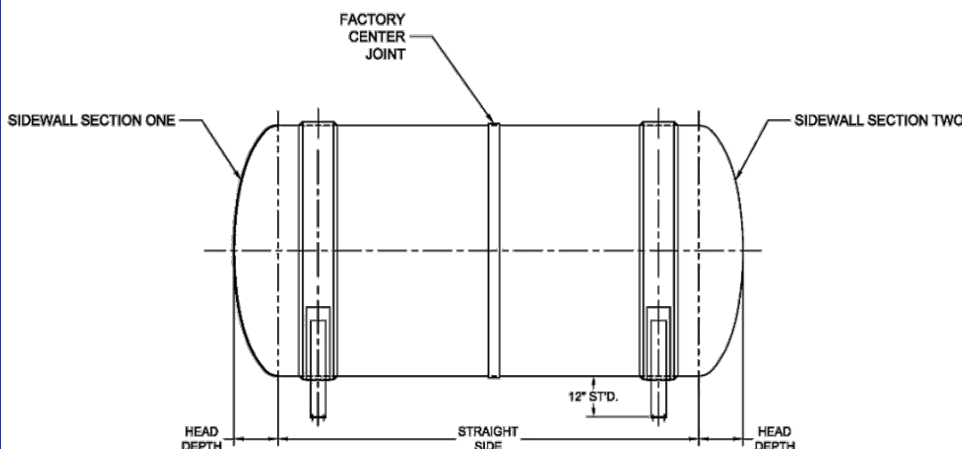
### DDH

See Dish Head Depth Chart Below

- When head space is in short supply, the horizontal tank provides the best option for added capacity.
- The standard support structure for horizontal tanks is carbon steel primed saddles. Other material options include painted steel, stainless steel and FRP. Special design consideration may be required for larger tanks and higher specific gravity products.
- Standard saddles have an 8" wide base plate, 12" wide radius band and provide 12" clearance from the tank lower sidewall to the bottom of the saddle.

Head Chart

| DIA.<br>Inches | Dish<br>Depth | Dish<br>Cap. | DIA.<br>Inches | Dish<br>Depth | Dish<br>Cap. |
|----------------|---------------|--------------|----------------|---------------|--------------|
| 18             | 3             | 2            | 84             | 14            | 194          |
| 24             | 4             | 4            | 90             | 15            | 236          |
| 30             | 5             | 9            | 96             | 16            | 292          |
| 36             | 6             | 13           | 108            | 18            | 404          |
| 42             | 7             | 25           | 120            | 20            | 578          |
| 48             | 8             | 34           | 132            | 22            | 756          |
| 54             | 9             | 55           | 138            | 23            | 877          |
| 60             | 10            | 71           | 144            | 24            | 1025         |
| 66             | 11            | 92           | 156            | 26            | 1331         |
| 72             | 12            | 120          | 168            | 28            | 1535         |



See *B.T.T. Capacity Charts Book - Horizontals* for all tank diameters and mold types.

# TANK COMPONENTS

Contact Belding Tank for specific details.





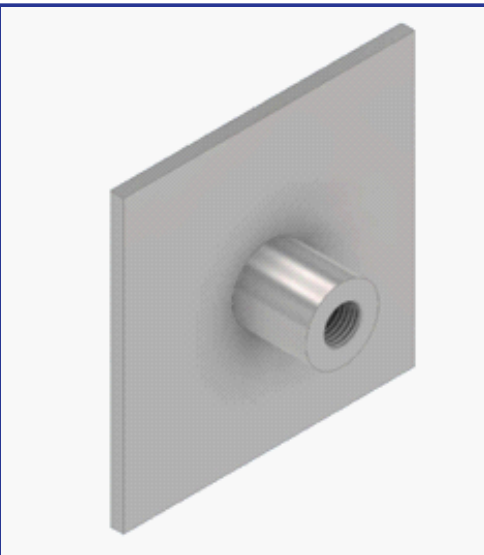
200 N. Gooding St. - P.O. Box 100 - Belding, MI 48809  
 Phone: 616-794-1120 Toll Free: 800-253-4252 Fax: 616-794-3666  
 E-Mail: sales@beldingtank.com Website: www.beldingtank.com

ORDER NUMBER: SAMPLE  
 CUSTOMER: SAMPLE  
 P.O. NUMBER: SAMPLE  
 B.T.T. TANK MODEL: SAMPLE  
 TANK CAPACITY: SAMPLE  
 DESIGN PRESSURE: SAMPLE  
 SPECIFIC GRAVITY: SAMPLE  
 TEMPERATURE: 70° F. MAX.  
 PRODUCT: SAMPLE  
 INTERIOR VEIL: SAMPLE  
 INTERIOR RESIN: SAMPLE  
 STRUCTURAL RESIN: SAMPLE  
 FABRICATION DATE: SAMPLE  
 EQUIPMENT NO.: SAMPLE



**TEST THE TANK FOR TOXIC FUMES AND VENTILATE BEFORE ENTRY**  
 FOLLOW LOCAL OSHA REGULATIONS

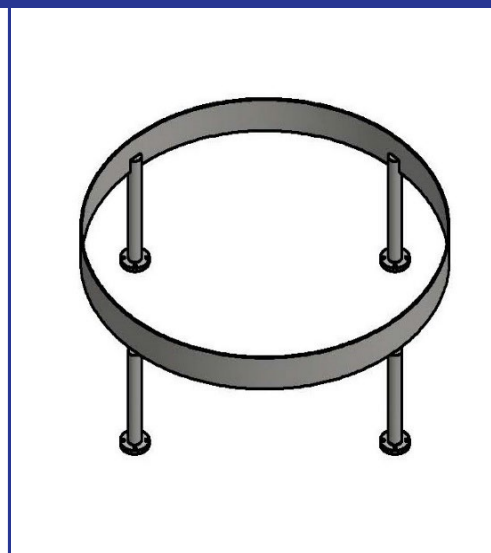
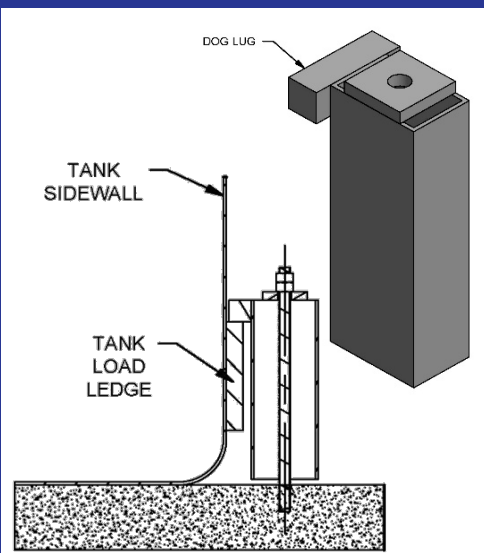
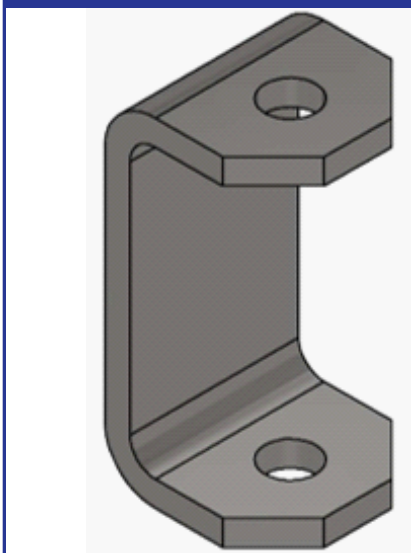
**PIPE CONNECTIONS**  
 Flexible pipe connections should be used wherever possible. If rigid piping must be used, be certain it is self-supporting. If rigid piping is used and is not self-supporting, and results in damage to a tank fitting, your warranty will be void.  
 CAUTION: METALLIC FITTINGS MUST NOT BE USED ON FRP NIPPLES OR COUPLINGS.



**BTT Standard Nameplate**

**LL1 & LL2 Lug**

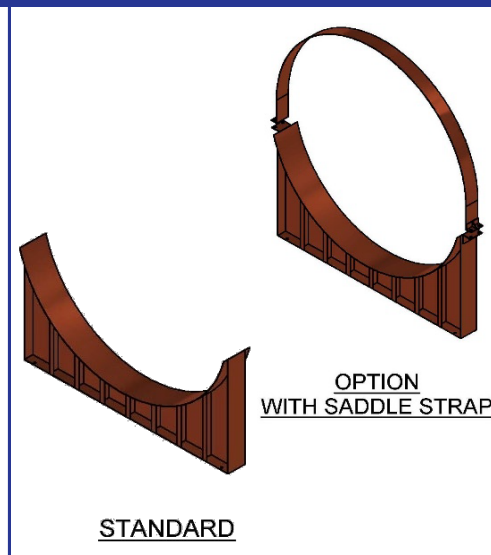
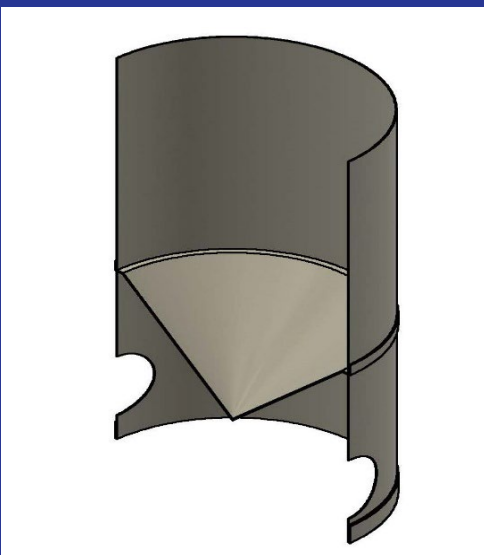
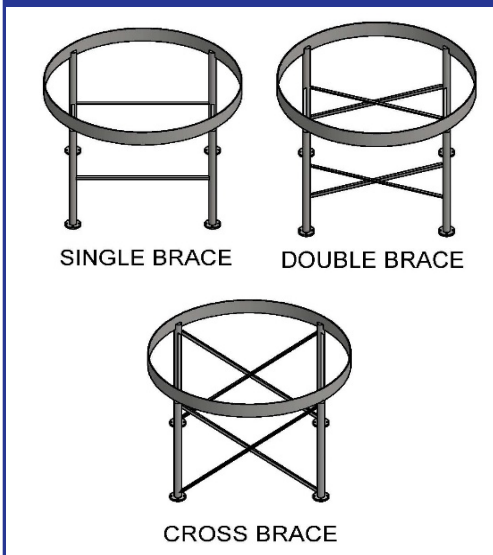
**HD1 Lug**



**#2 to #10 Lug**

**Load Ledge w/ Dog Lug**

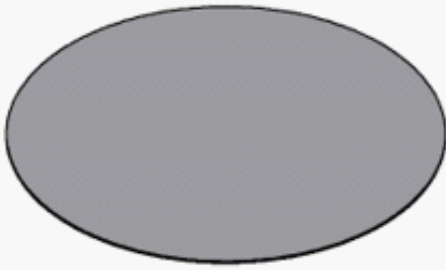
**Leg Stand**



**Bracing**

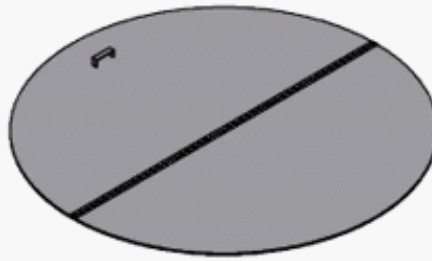
**FRP Skirt Support**

**Saddles**



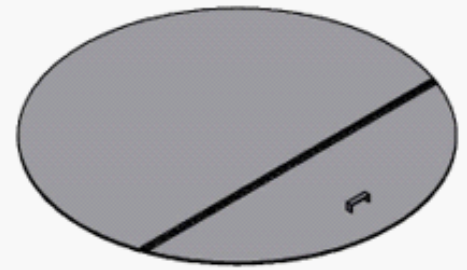
Bolts, gasket and handles are optional.

**One Piece Cover**



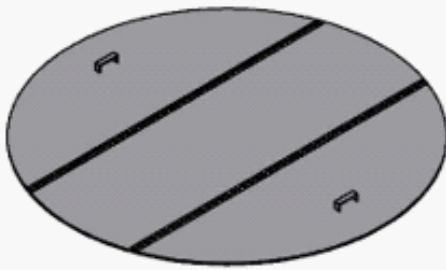
Bolts, gasket and handles are optional.

**Standard Two Piece Cover**



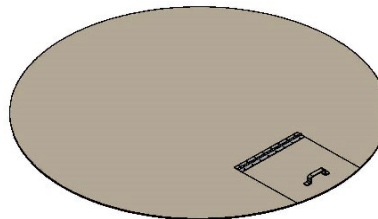
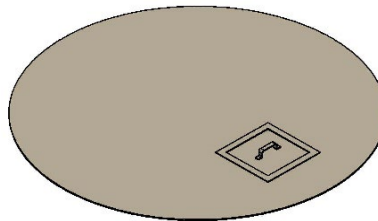
Bolts, gasket and handles are optional.

**1/3 - 2/3 Two Piece Cover**

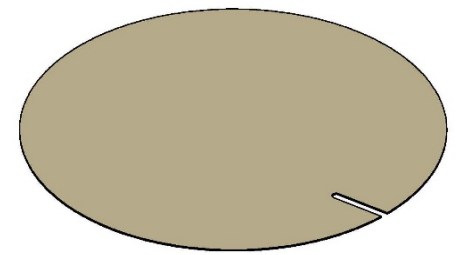


Bolts, gasket and handles are optional.

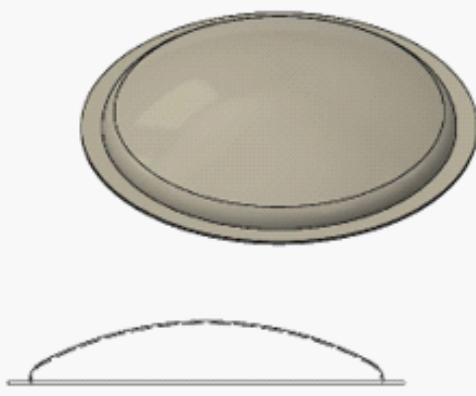
**Three Piece Cover**



**Cover with Hatch**

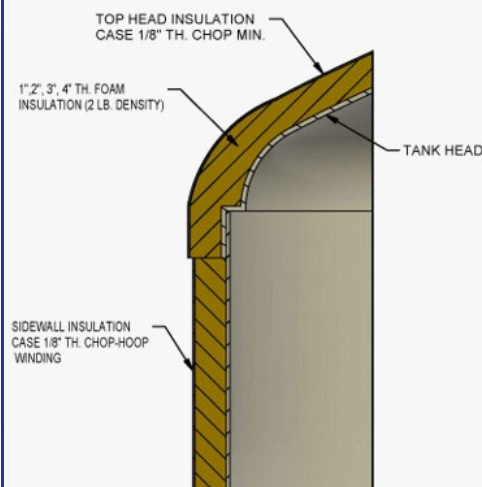


**Portable Agitator Slot**

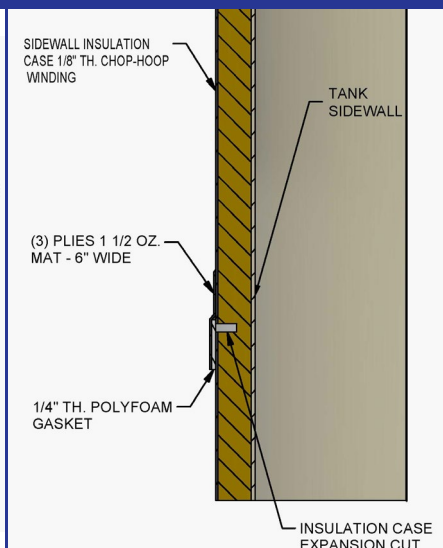


**ASME F&D Head**

**Domed Cover**



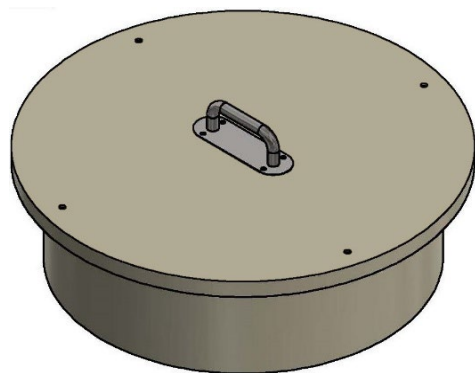
**Insulation**



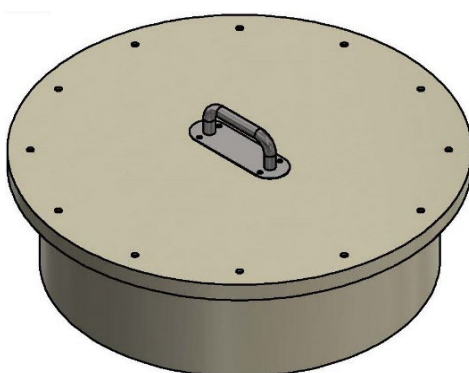
**Expansion Joint**

## TOP MANWAYS

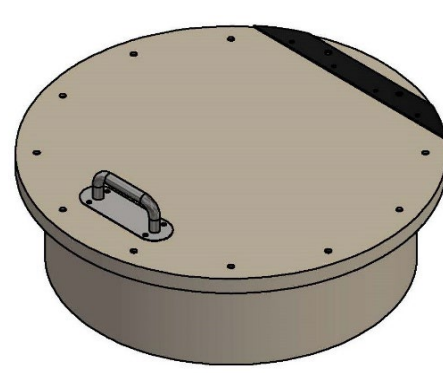
Contact Belding Tank  
for specific details.



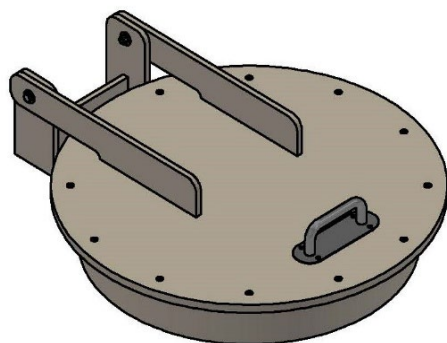
**Loose Cover**



**Bolted & Gasketed Cover**



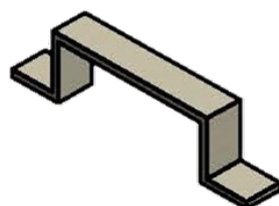
**Single Hinge**



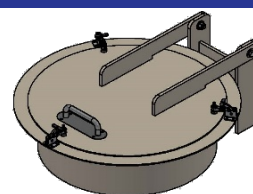
**Double Hinge**



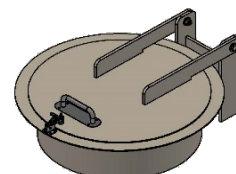
**Standard S.S. Handle**



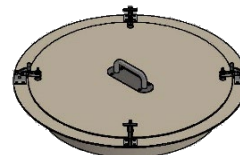
**FRP Handle**



**HINGED (3) CLAMPS**



**HINGED (1) CLAMP**



**Clamped Cover**

- **STANDARD:**
  - T-316 Stainless Steel
- **OPTIONAL:**
  - Titanium
  - Hastelloy-C

Top Manway bolts are shipped installed.

- **STANDARD:**
  - EPDM
- **OPTIONAL:**
  - Buna-N
  - FKM
  - PTFE Rope
  - Hypalon

**Up to 12" W.C. (0.432 psig)**

- Bolted & Gasketed cover with double the standard bolt quantity and FRP handle.

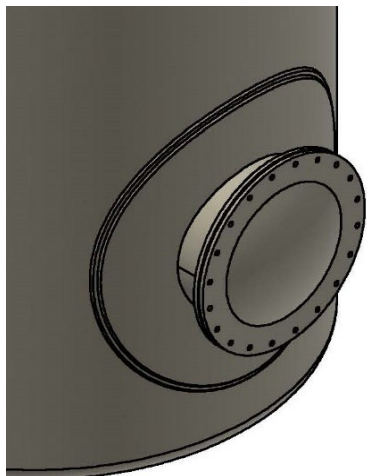
**Pressure above 12" W.C.**

- Refer to standard Side Manway and desired pressure rating.

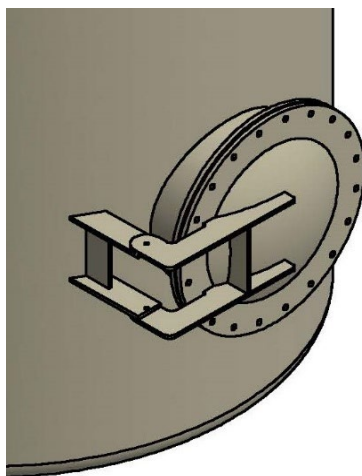
**Bolts, Nuts & Washers**

**Gaskets**

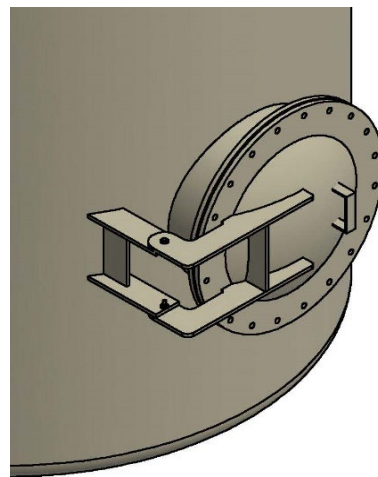
**Pressure / Vacuum**



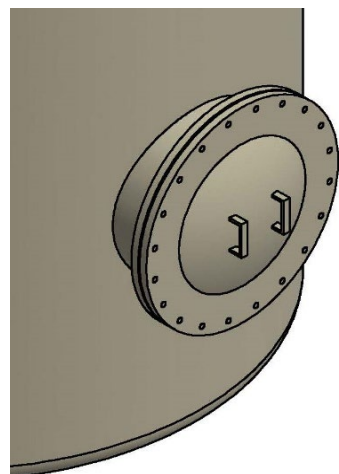
**Standard Bolted & Gasketed**



**Double Hinged**



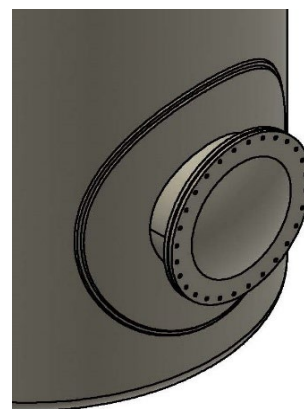
**Double Hinged with Handle**



**Two Handles**

**SAFETY FIRST**  
Personnel Retrieval,  
if necessary,  
is more  
efficient.

**Safety**



Count your bolts, if there are more than 20, you have an old style manway.

**Old Style (12-11-17 or Before)**

- **STANDARD:**
  - T-316 Stainless Steel
- **OPTIONAL:**
  - Titanium
  - Hastelloy-C

Side Manways are shipped with (4) shipping bolts with Nylon-Insert Locknuts.

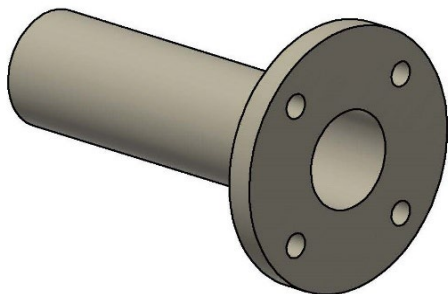
**Bolts, Nuts & Washers**

- **STANDARD:**
  - EPDM
- **OPTIONAL:**
  - Buna-N
  - FKM
  - PTFE Rope
  - Hypalon

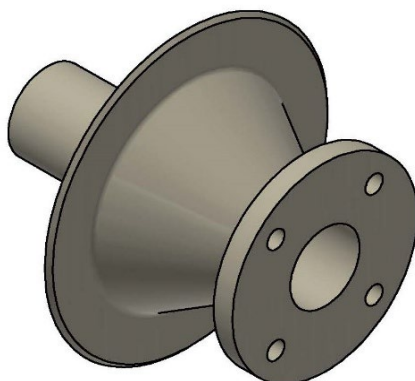
**Gaskets**

- 1- Maintenance will love you.
- 2- Inspections are easier.
- 3- If there is an issue, repairs are completed more efficiently.
- 4- If the tank has a mixer, installation is quicker and easier.
- 5- Inserting a ladder for inspections or repairs is usually easier.

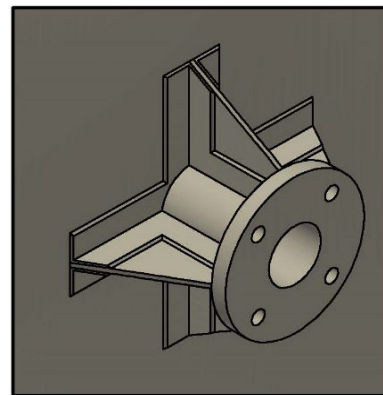
**Benefits**



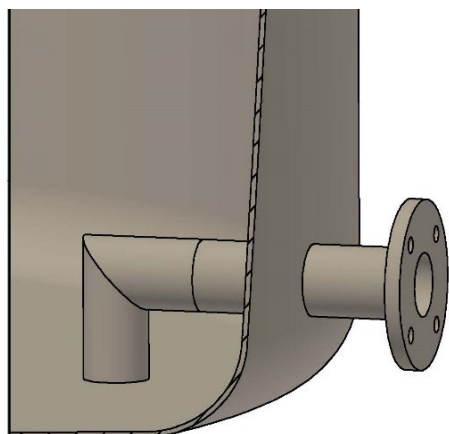
**Flange**



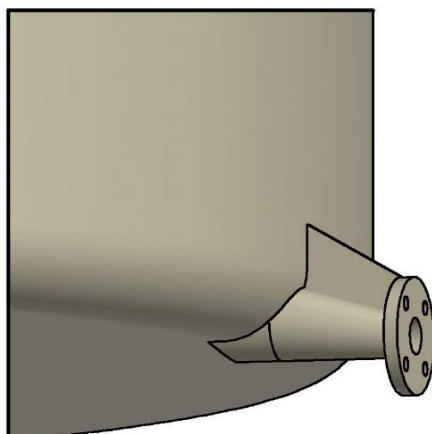
**Flange w/ Conical Gusset**



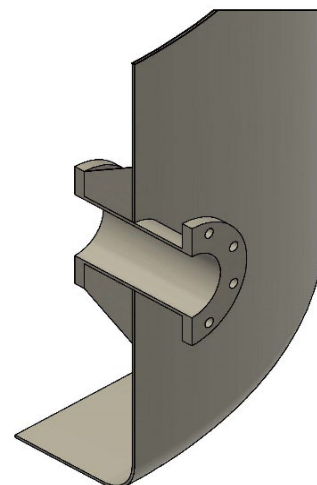
**Flange w/ Plate Gussets**



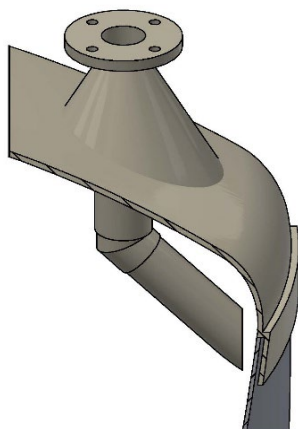
**Siphon Flange**



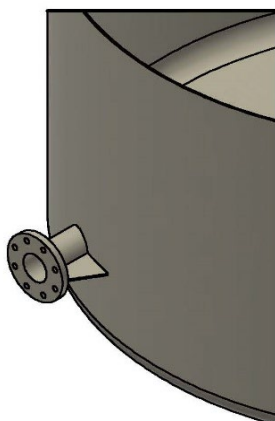
**Side-Bottom Flange**



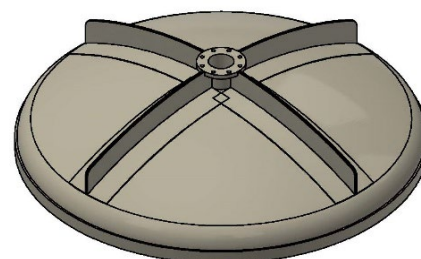
**Double Flange**



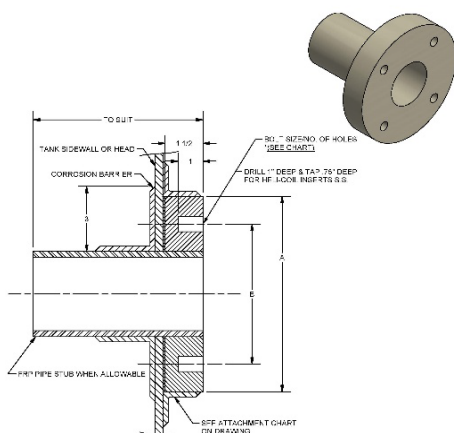
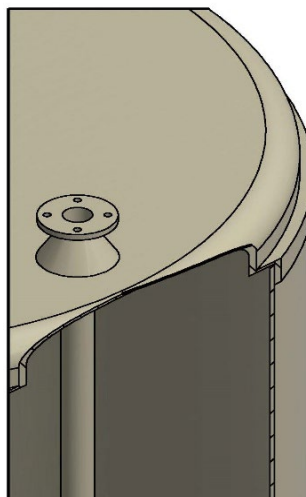
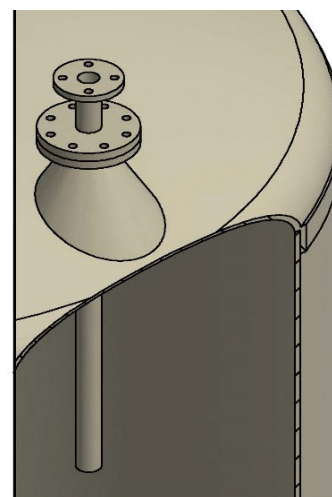
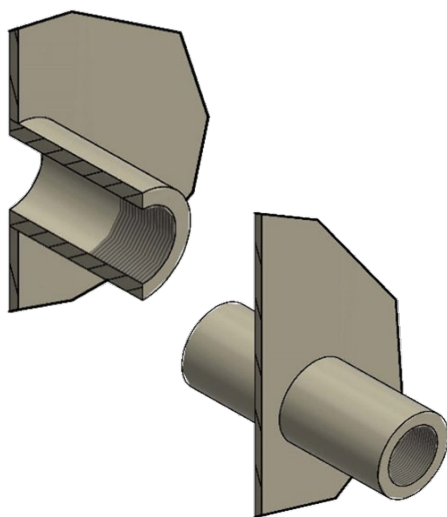
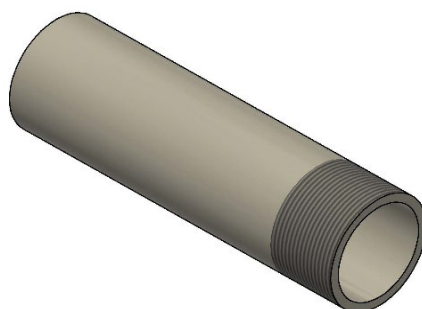
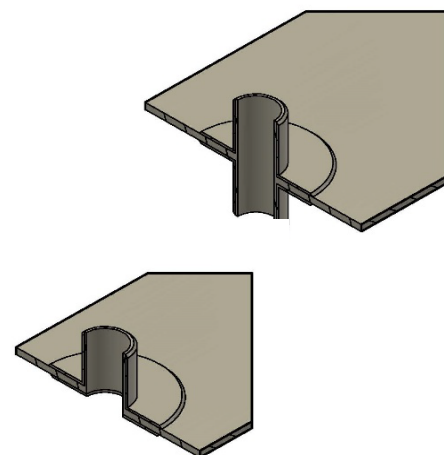
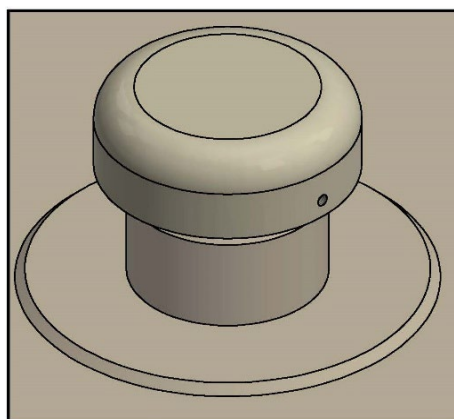
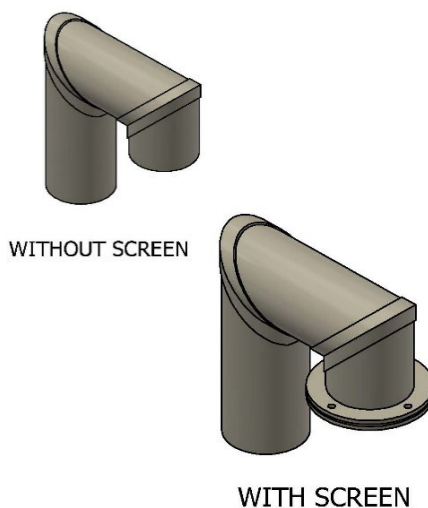
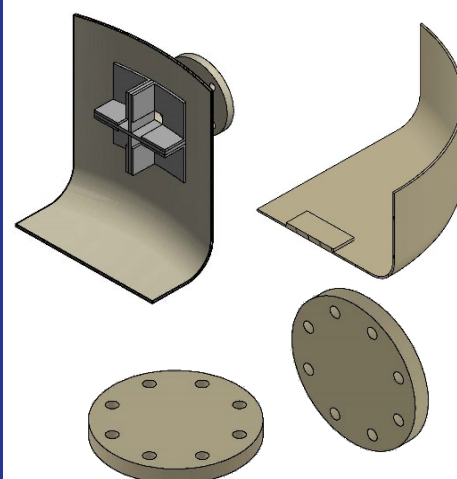
**Anti-Foam Inlet Flange**



**Tangential Flange**

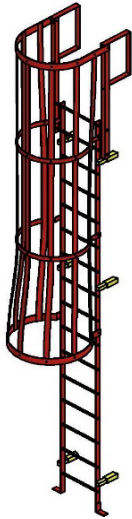


**Agitator Flange**

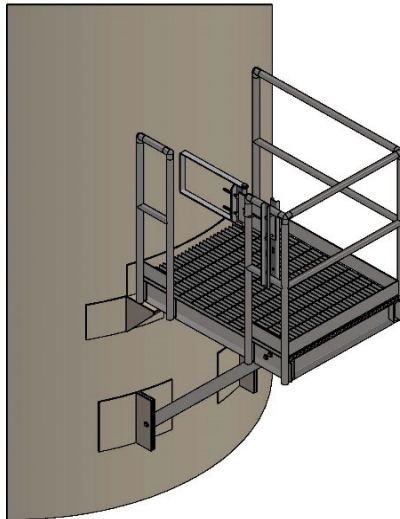

**Pad Flange**

**Stationary Downpipe**

**Removable Downpipe**

**Coupling (FNPT) - Half or Full**

**Nipple (MNPT)**

**Hand Lay-up & CL2030**
**Plain End Pipe**

**Mushroom Vent**

**Gooseneck Vent**

**Vortex Breaker / Wear Pad / Blind**

## ACCESSORIES

Contact Belding Tank  
for specific details.



Ladder with Cage



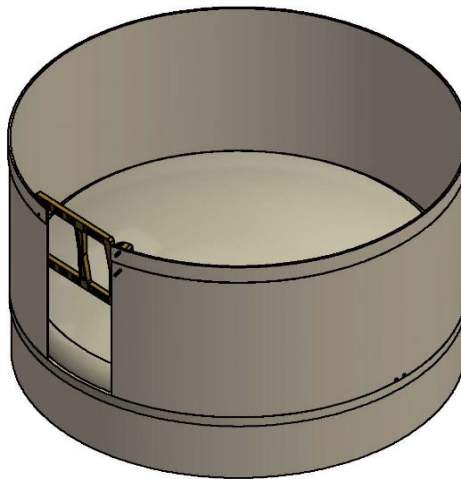
Intermediate Platform



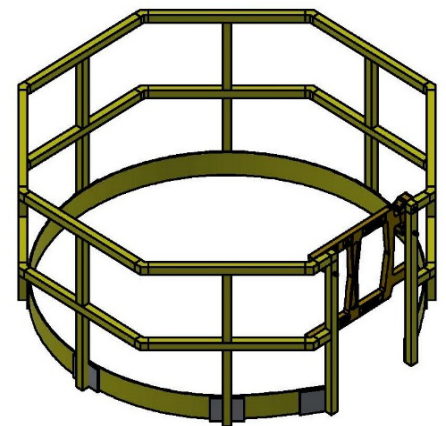
Safety Rail Assembly



Fixed Ladder SRL Anchor AP36

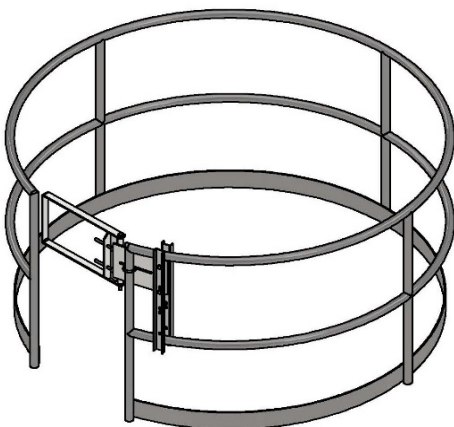


FRP Skirt Handrail

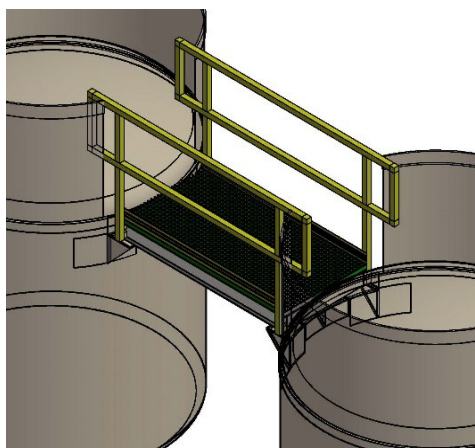


Available on 90" diameter & larger.

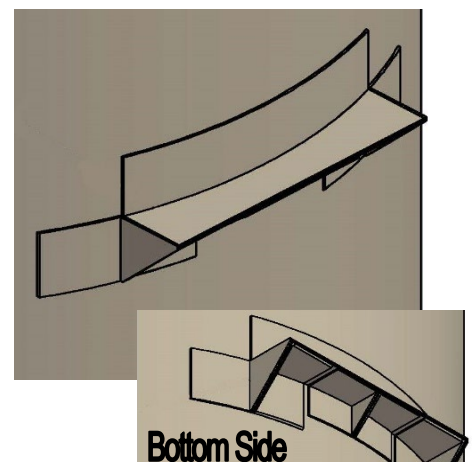
Post Style Handrail (FRP)



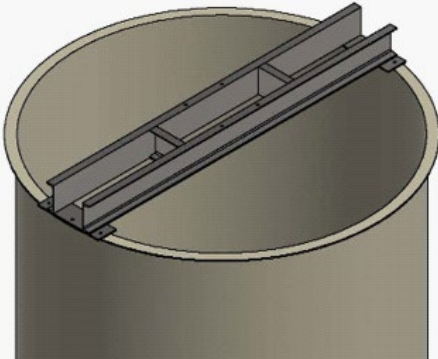
Post Style Handrail (Steel)



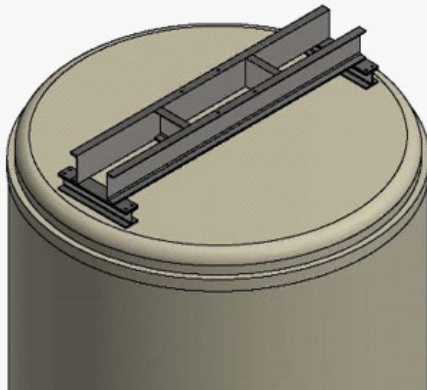
Crossover Platform (2' x 6' Max.)



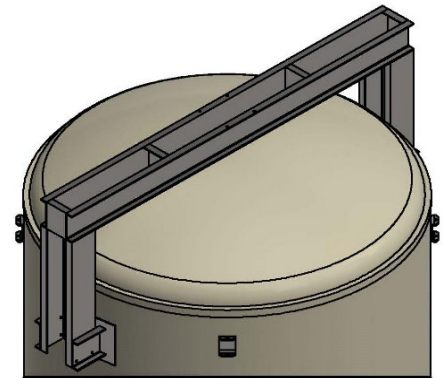
Platform Support Shelf



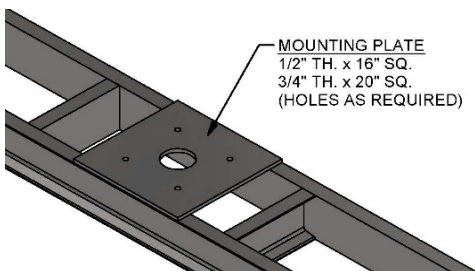
Agitator Rails (Open Top)



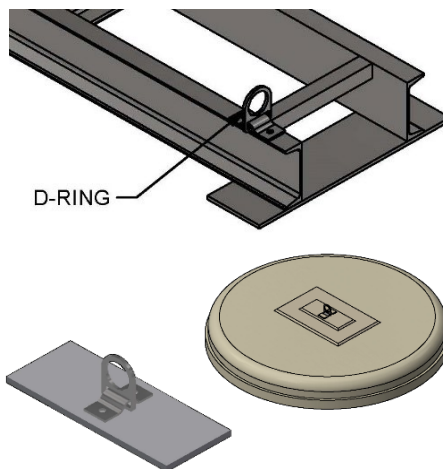
Agitator Rails (Flat Top)



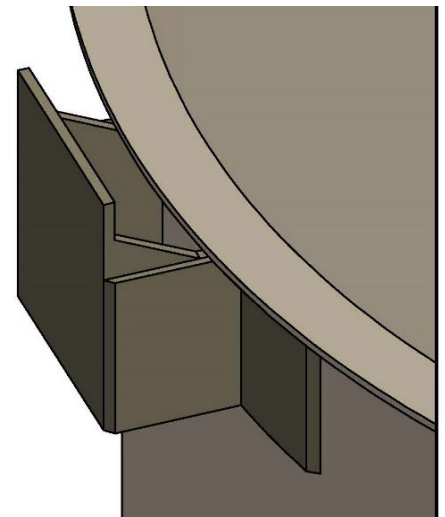
Agitator Rails (Dome Top)



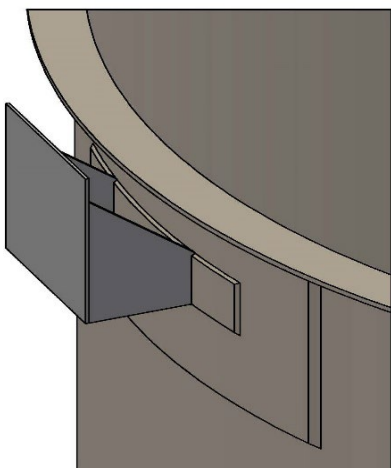
Rail Mounting Plate



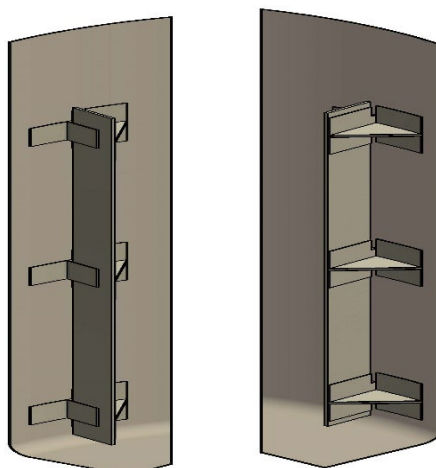
Rail & Lanyard Tie-Off Point



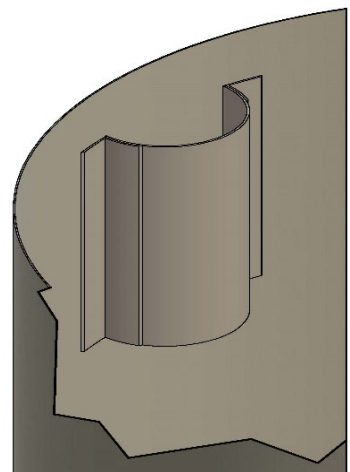
Portable Agitator Bracket (FRP)



Portable Agitator Bracket (Steel)



Anti-Swirl Baffle

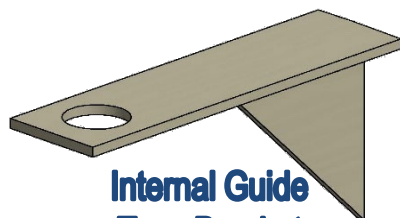


Upflow Baffle

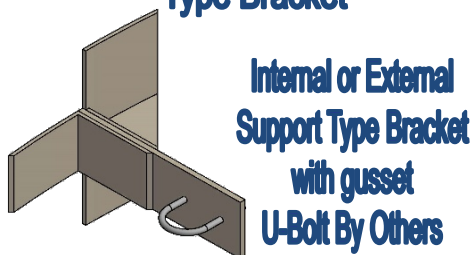
## ACCESSORIES

### Support Brackets

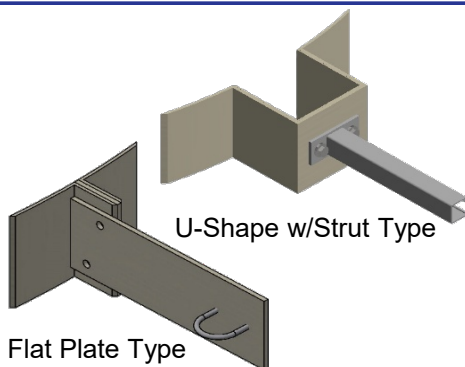
Contact Belding Tank  
for specific details.



**Internal Guide  
Type Bracket**



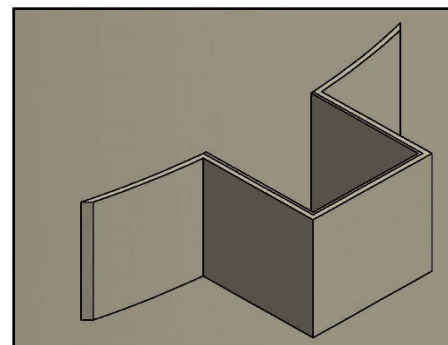
**Internal or External  
Support Type Bracket  
with gusset  
U-Bolt By Others**



U-Shape w/Strut Type

Flat Plate Type

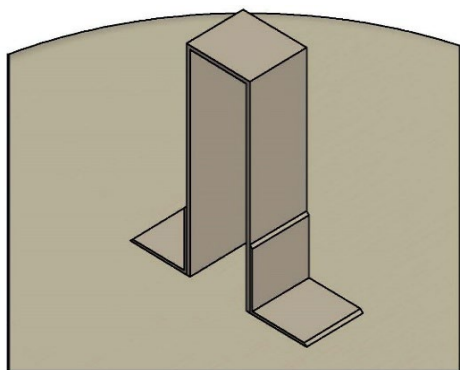
**External Support Type Brackets  
Pipe Connections By Others**



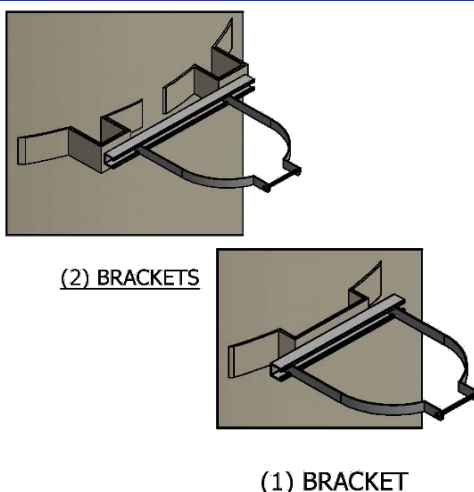
**Flat Shaped - 1 pc.  
Sized Based on Pipe Size**

**Flat Shaped - 2 pc.  
Sized Based on Pipe Size**

**U-Shaped  
Horizontal Orientation**



**U-Shaped  
Vertical Orientation**



(2) BRACKETS

(1) BRACKET

**U-Shaped  
With Strut Channel & Clamp**

4" W x 2" to 4" H x ?" L

6" W x 2" to 20" H x ? L

10" W x 2" to 6" H x ? L

12" W x 2" to 6" H x ? L

**U-Shaped  
Sizes Available**

#### • MATERIAL TYPES

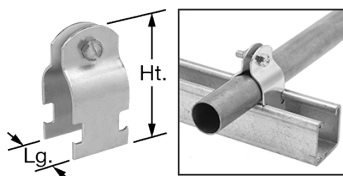
- Fiberglass
- Galvanized Steel
- T-316 Stainless Steel
- Aluminum



**Strut Channel**

#### • MATERIAL TYPES & SIZES

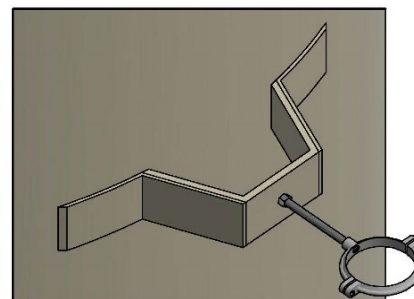
- Carbon Steel Zinc Plated
  - 1" to 20"
- Stainless Steel
  - 1" to 12"



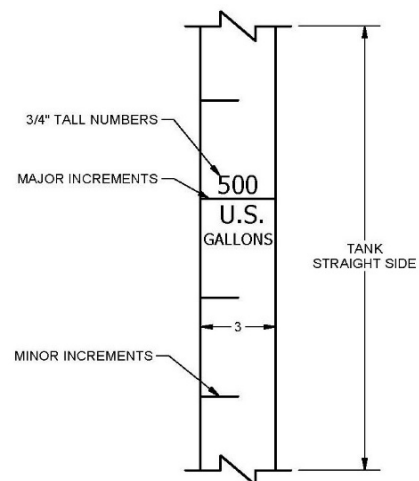
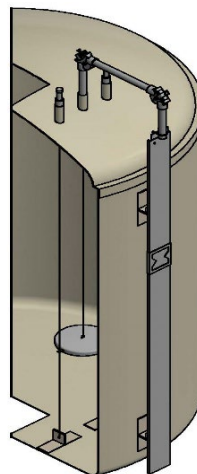
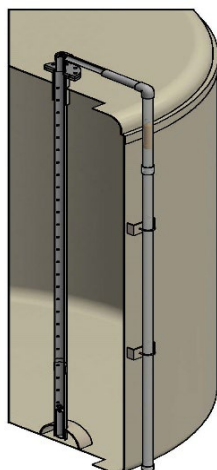
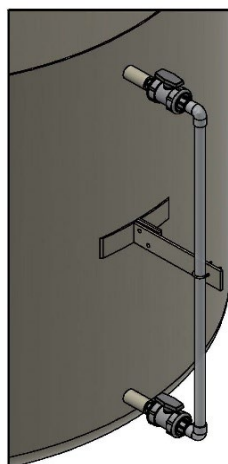
**Pipe Clamp**

#### • MATERIAL TYPES & SIZES

- Stainless Steel
  - 1" to 4"

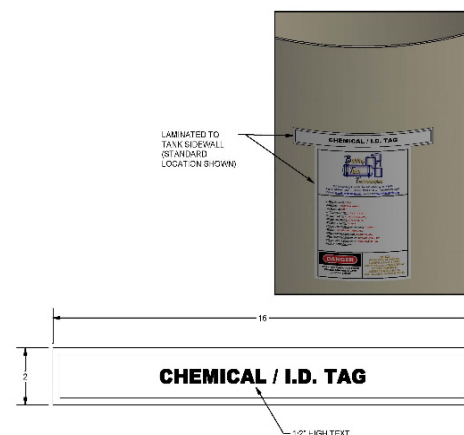
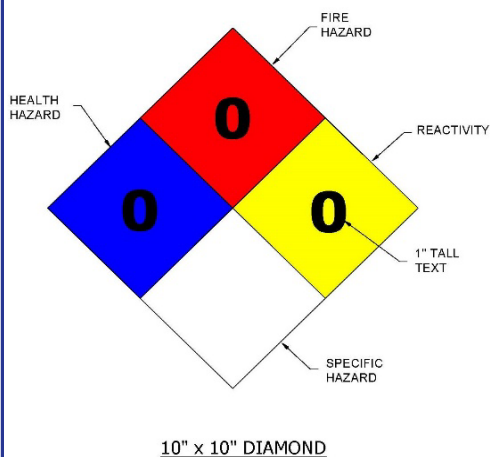
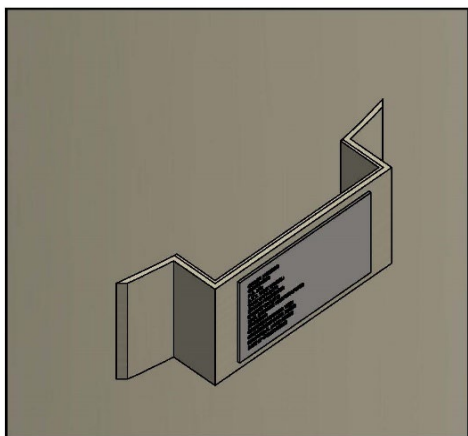


**Trapezoid Shaped  
11" WB x 6" Wt x 6" H x ?" L**



## Site Tube Assemblies 1" or 2" Clear PVC / 2" PVC Reverse Float / Varec Reverse Float

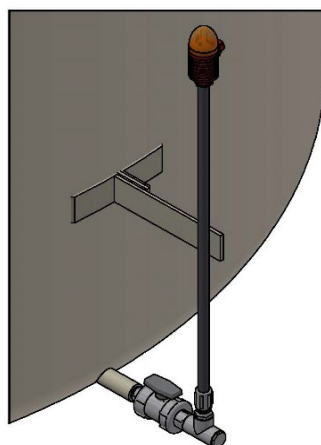
## Calibration Strip



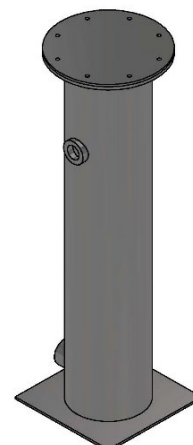
## Stainless or Plastic Nameplate

## NFPA Diamond

## Chemical Tag / I.D. Tag



Piping  
By  
Others



## Heat Maintenance

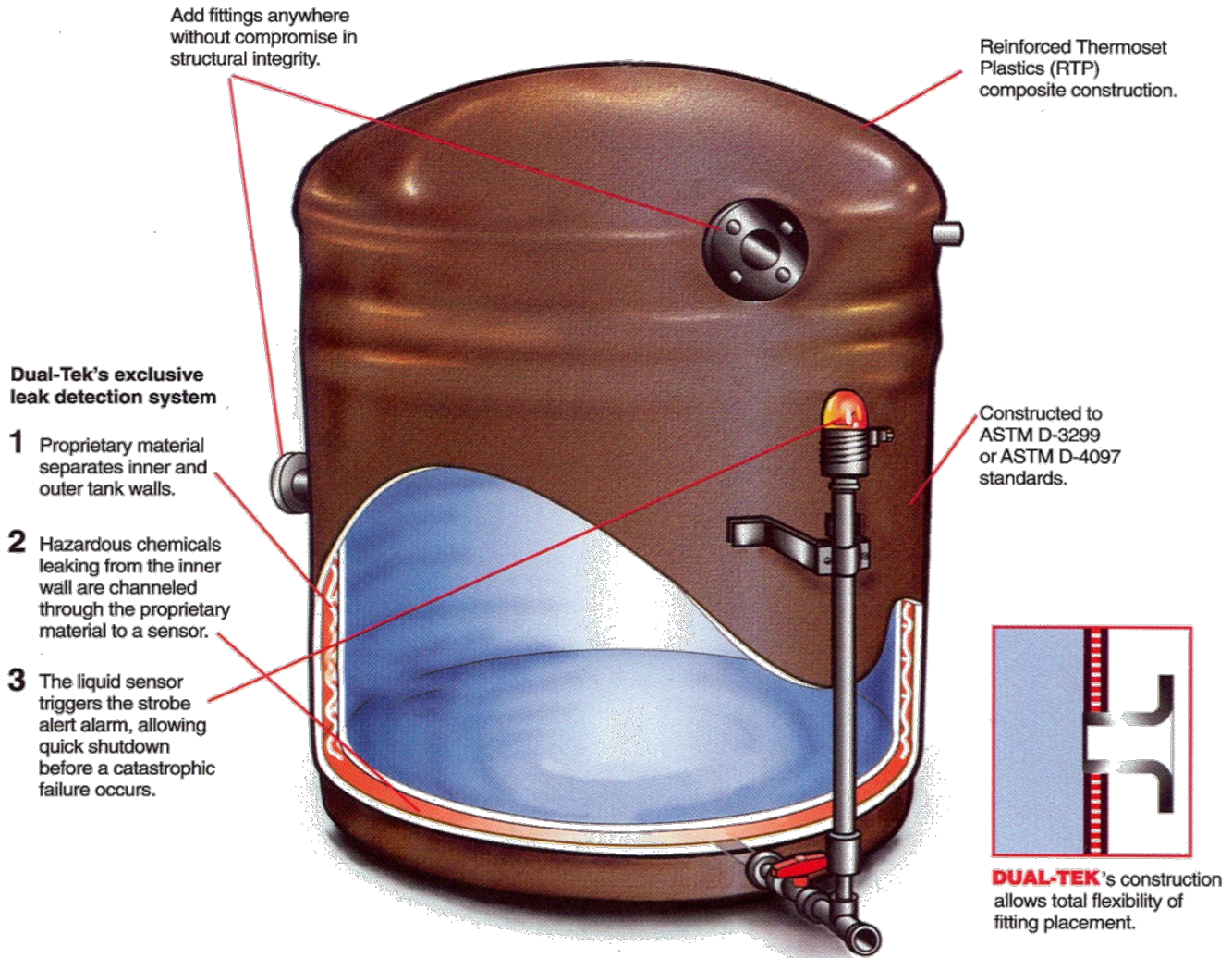
## Leak Detection

## Desiccant Filter

Every standard tank model, diameter and straight side are available as a Dual-Tek™ Double Walled tank.

**Belding Tank®** responds to the growing demand to ensure safety in handling hazardous chemicals with **DUAL-TEK™**. The only design in process storage that offers the advantages of **Double Wall Containment** and leak detection with **no compromise in flow-thru design**.

*This means you can specify the location of every fitting, instead of top-only installation.*



#### Standard Features:

- Early detection in the event of a leak.
- Versatile operation.
- Composite Construction.
- Proven system.
- Wide range of chemical resistance.
- High reliability.
- Space-saving design.
- Capacities to 40,000 gallons.

#### Optional Features:

- Dual-Tek™ Leak Detection with Strobe Alert Alarm.
- Desiccant Filter for interstitial space.

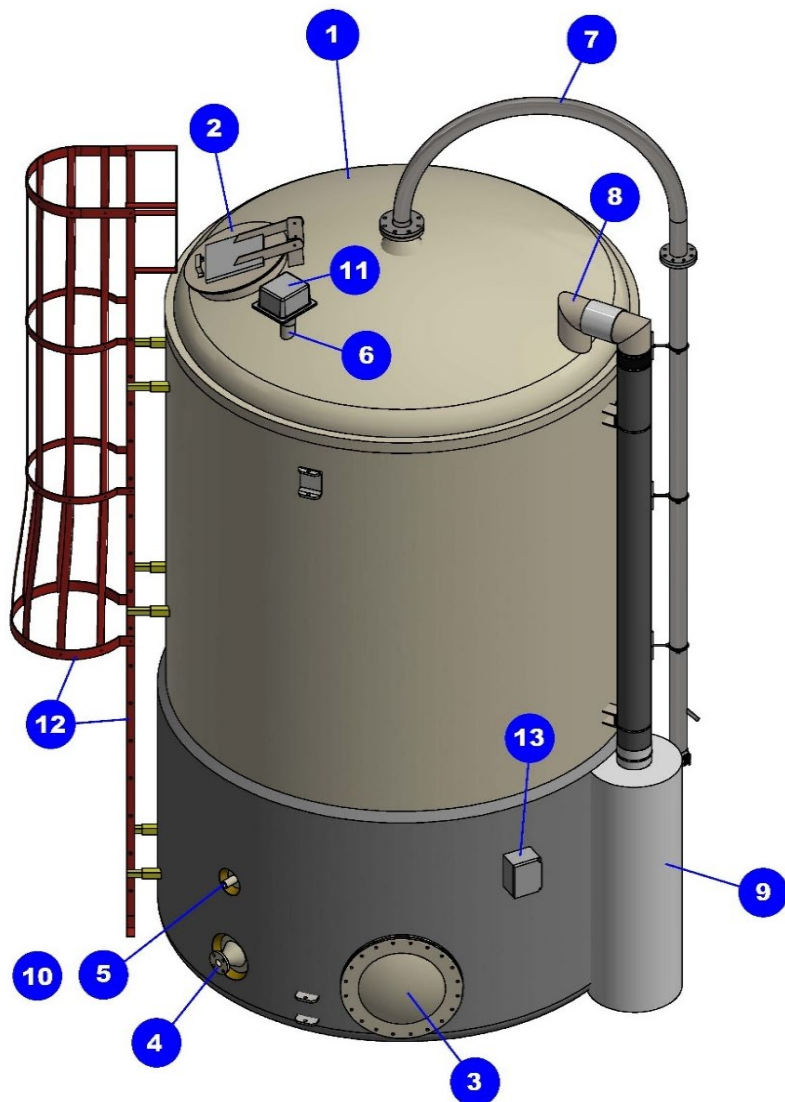
**BRINE-TEK™** Downflow Brine Makers utilize the proven design, reliability and industry exclusive **FULL 2 YEAR FACTORY WARRANTY** of **Belding Tank**, combined with a packaged component system to provide the end user with a turn-key solution to their brine making and storage needs.

**BRINE-TEK™**

**Downflow Brine Making** ensures consistent saturation of brine. As the influent water rises, the higher density brine sinks. With rock and solar salts, sludge accumulates at the bottom of the tank for easy removal. This also permits the desalinization of sludge by backwash leaching.

### Features and Accessories:

1. **Belding Tank BRINE-TEK™** FRP storage tank utilizing FDA approved polyester resin construction to meet food grade applications.
2. 24" I.D. top access manway with hinged/weighted cover for emergency vent.
3. 24" I.D. side access manway for cleaning and inspection.
4. 2" Flange for Salt Brine outlet.
5. 1-1/4" Coupling for Water Level spray ring assembly.
6. 3" Connection for Salt Level indicator.
7. 4" I.D. 304 stainless steel salt fill pipe with camlock coupler and cap for pneumatic delivery truck hose connection.
8. 8" I.D. FRP gooseneck vent with FRP vent duct assembly.
9. Polyester dust collector bag mounted low for ease of servicing.
10. Optional Automatic influent water level control based on brine demand. **(not shown)**
11. Optional solids indicator for salt level.
12. Optional Ladder/safety cage assembly for access to top manway.
13. Optional Freeze Protection package including polyfoam insulation and 500 watt, 120 volt Heat Panels.



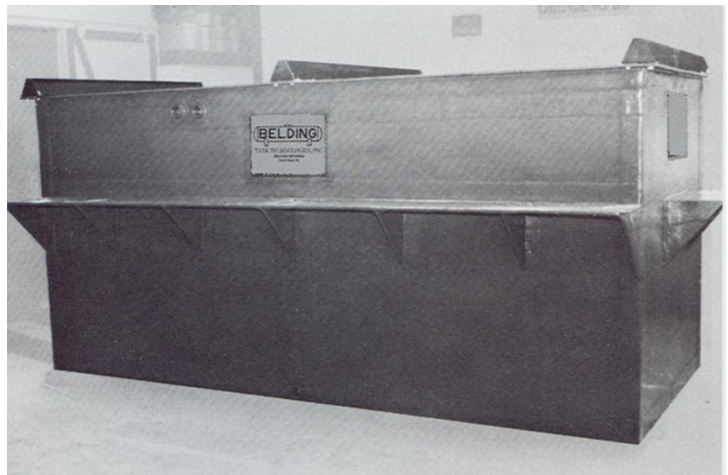
| MODEL                 | BT-8-23 | BT-9-33 | BT-10-40 | BT-11.5-53 | BT-12-63 | BT-12-75 | BT-14-100 |
|-----------------------|---------|---------|----------|------------|----------|----------|-----------|
| Diameter              | 96"     | 108"    | 120"     | 138"       | 144"     | 144"     | 168"      |
| Straight Side         | 180"    | 180"    | 192"     | 192"       | 204"     | 240"     | 240"      |
| Overall Height        | 196"    | 198"    | 212"     | 215"       | 228"     | 264"     | 268"      |
| Max. Gross Wt., Lbs.  | 74,000  | 99,000  | 121,000  | 159,000    | 184,000  | 210,000  | 277,000   |
| Useable Storage, Tons | 23      | 33      | 40       | 53         | 63       | 75       | 100       |
| Max. Delivery, Tons   | 15      | 19      | 25       | 35         | 40       | 55       | 74        |
| Max. Brine Draw, GPM  | 20 / 12 | 25 / 15 | 33 / 20  | 45 / 27    | 50 / 30  | 50 / 30  | 66 / 40   |

*Brine Draw is shown with Granulated Salt first, followed by Rock or Solar Salt.*

## RECTANGULARS



- Custom fabrication from your design or we will design to meet your requirements.
- Limitless variations in design.
- Wide variety of resin systems available.
- FRP construction simplifies installation and cleaning procedures, eliminating many maintenance expenses.



BINS CAN BE  
ROTATED **360°**

by a forklift with a rotator. No other special attachments needed to empty.

#### General Notes:

1. The standard larger molds are 240" & 300" diameters. With capacities up to 145K gallons.
2. All of the standard mold diameters previously listed are available for field assembly.
3. Other sizes not shown or listed are available upon request.
4. Special design consideration is required for all field assembled tanks.

**FIELD  
ASSEMBLED**

### ***Field Assembled Tanks Meet Space / Capacity Requirements.***

Each tank is fabricated in sections at our plant. The sidewall sections are filament wound and have circumferential joints for field assembly. For shipping purposes, the sidewall sections are compressed to an oversize load width. The bottom and top heads are also made in sections suitable for shipping. The tanks are then assembled on-site by a **Belding Tank®** specialized crew or by qualified FRP assemblers under the supervision of **Belding Tank®**. This same concept can be applied to other FRP tanks where access to the tank area is limited.



75,000 gallon field erected E-Coat resin storage tanks have been a success for Automotive Assembly Plants located in Windsor, Ontario and Toledo, Ohio. They needed 150,000 gallons of storage capacity at each plant; inside a temperature controlled building with a 30' x 60' secondary containment area, and **Belding Tank®** had the answer.



FRP Wastewater treatment tanks in excess of 140,000 gallons used to chemically treat automotive industrial waste, thus allowing for suitable discharge to Publicly Owned Treatment Works (POTW).



**Belding Tank®** fabricates using resins that comply with FDA regulation 21 CFR 177.2420, covering materials contacting food and drug products. This particular tank was designed for a major soy

sauce manufacturer for bulk storage, at an operating temperature of 160° F. The unique aspect of this tank the elevated dished bottom and domed top.



"for those who

Think about this, since 1975 **Belding Tank®** has designed and manufactured a proven quality product to the brine industry.



think brining"

## BELDING BRINE TANK

### Advantages & Features

1. Unitized one piece bottom to sidewall tank construction without a seam for greater structural strength of the tank.
2. Tank bottom corners have a knuckle radius for maximum resistance against hydrostatic pressures.
3. Heavily reinforced with multiple layers of fiberglass overlay around the knuckle radius, and tank sidewall stiffener band for maximum protection against breakage.
4. The tanks' smooth interior surface along with the corner radius helps prevent against product build up and allows for easy cleaning.
5. In-ground / Above ground installations, with a proven successful track record.

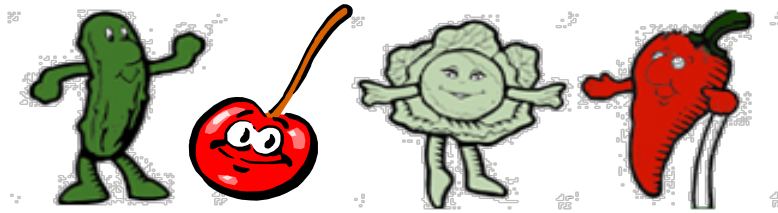


To date, **Belding Tank®** has manufactured thousands of FDA approved fiberglass reinforced plastic tanks for the brine industry in the United States, Canada & Mexico. This continued effort of service and top quality product is what makes **Belding Tank®** your #1 choice for tanks in the brining industry.

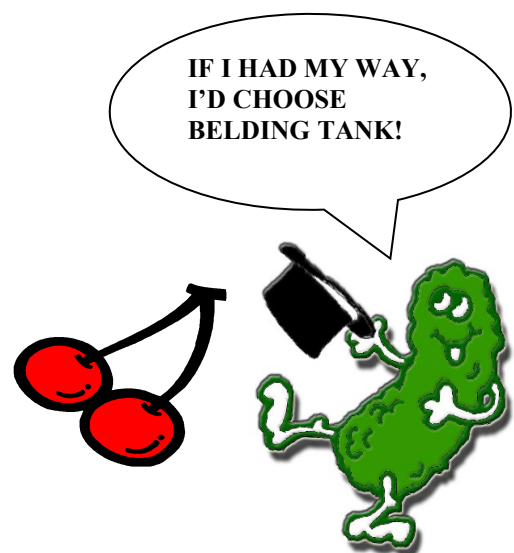


## Pickles, Cherries, Sauerkraut and Peppers

We have a tank that's right for whatever you're brining.

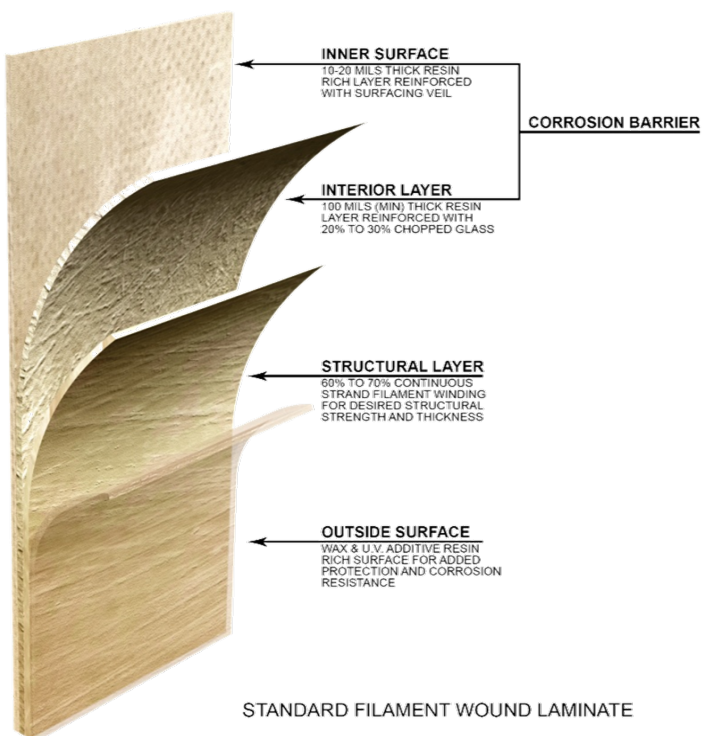


As a member of Pickle Packers International and Michigan Food Processors Association, Belding Tank continues it's efforts to be the sole tank manufacturer meeting your brine tank needs, offering several different size tanks and accessories. If you have a need today, don't hesitate to call us!



**“Service does not come from a manual...it comes from Belding Tank!”**

The laminate Corrosion Barrier is the Inner Surface and Interior Layer combined. The glass content of the Corrosion barrier shall be  $27\% \pm 5\%$  by weight. The most important feature to any fiberglass tank in the corrosion industry is the corrosion barrier of the tank. Each tank Belding Tank Technologies, Inc. manufactures is built using a male mold to help ensure a smooth, resin rich internal finish to aid in corrosion resistance.



## Construction Matters!

**You can trust the  
professionals at  
Belding Tank® to  
produce a quality  
tank that will last  
for years to come.**

## RESIN SYSTEMS

### **ECONOMY RESIN SYSTEM:**

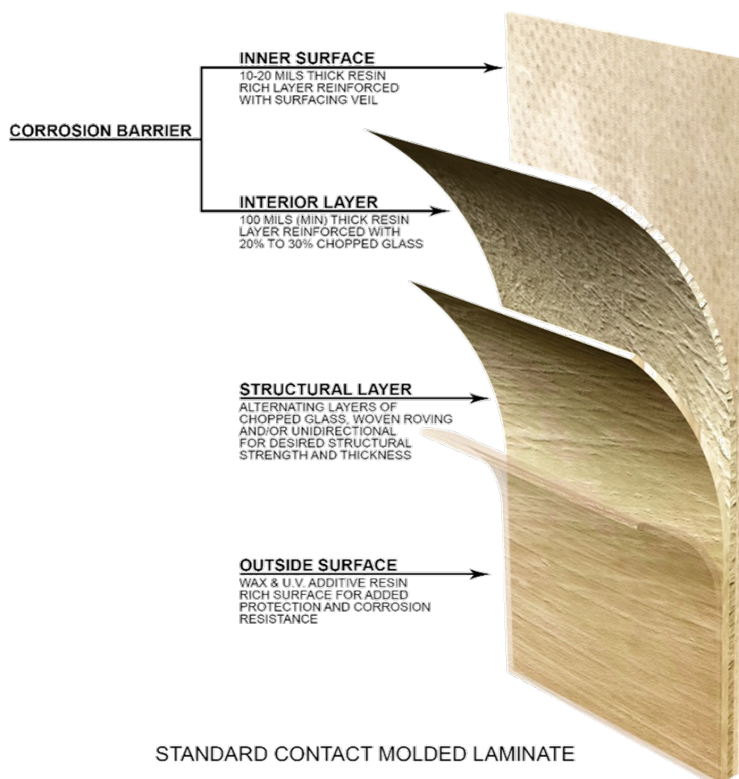
Isophthalic polyester resin throughout the laminate.

### **STANDARD RESIN SYSTEM:**

Our "STANDARD" resin system consists of Premium grade Vinyl ester resin in both the *Inner Surface* and *Interior Layer*. Isophthalic polyester resin is used in the Structural Layer and Outside Surface.

### **PREMIUM RESIN SYSTEM:**

Premium grade Vinyl ester resin throughout the laminate.



## SAFETY FIRST

**BELDING TANK®** *HANDLING AND INSTALLATION and OPERATION AND MAINTENANCE* manual must be read carefully before attempting to handle, install or use the tank. They can be found on our website under Technical Info / Instruction Manuals.

Safe and proper tank handling and installation is a must for maximum term and trouble free service. DO NOT deviate from instructions without approval from

**BELDING TANK®**.

## LIFTING AND POSITIONING

**BELDING TANK®** tanks are designed to withstand normal handling. Note the following handling precautions.

1. NEVER roll or slide a tank. Lift the tank using a crane or other approved method.
2. Operators of hoist equipment should follow proper rigging procedures at all times. NEVER allow the tank to swing out of control.
3. DO NOT drop or allow hard impact from tools, spreader bars, etc.
4. Avoid the use of equipment inside the tank that could scratch or damage the tank corrosion barrier.
5. NEVER use cables or chains around tank.
6. NEVER lift the tank by using fittings. Use designated lifting lugs, which come standard on all B.T.T. tanks.
7. If tanks are being stored prior to installation, be sure to lay on padded surface and tie down securely.



## TANK BOTTOM SUPPORT

**BELDING TANK®** FRP Flat and Sloped Bottom tanks require continuous rigid support. This support must be smooth, flat and free of foreign objects prior to setting any tank. Belding Tank recommends, as a minimum, two layers of thirty pound roofing felt, to take up possible deviations in the support. The support must be designed of proper strength to withstand the combined weight of the tank and contents. Design of the support structure is the responsibility of the purchaser.

## PIPE CONNECTIONS

Flexible pipe connections should be used whenever possible. If rigid piping must be used, be certain it is self-supporting and non-vibrating.

Belding Tank Technologies, Inc. (B.T.T.) warrants its manufactured products against any defects in the material and workmanship only, for a period of (1) year from shipment.

Any component parts that are on products manufactured and designed by B.T.T., are warranted only to the extent of the manufacturer of each component part and to the extent as is enforceable by B.T.T.

No warranty, either expressed or implied, is made by B.T.T. as to the fitness, merchantability, condition, capacity, or efficiency of any products or goods sold. B.T.T. shall not be responsible for any loss or damage resulting from the installation, operation or use of goods sold. Including, without limitation, labor cost, direct, indirect, incidental, punitive or consequential damages, and no claims for labor or for consequential damages will be allowed.

In the event that the purchaser asserts and B.T.T. agrees that the product is defective per this warranty, B.T.T. may, at its election replace, repair or credit the customer, on the condition that the product is in possession of the original purchaser and the product has been used for its originally intended purpose and design.

Any alterations, modifications, or changes to any products manufactured or supplied by B.T.T., automatically voids this warranty.

If purchaser attempts to repair product or take any other action, prior to giving prompt notice and providing a reasonable opportunity for B.T.T. to inspect and correct said product, as deemed necessary by the manufacturer, B.T.T. shall not be held liable for any expenses incurred by the purchaser.

No product may be returned for credit or replacement unless first authorized by Belding Tank Technologies, Inc.

Belding Tank Technologies, Inc.'s liability and the purchaser's exclusive remedies are limited to those set forth in this warranty, to the exclusion of all others.

All invoices become net due and payable thirty days from date of invoice unless stated otherwise on order. Interest shall be charged at the rate of 2% per month (24% per year) on all past due amounts or at the highest rate allowed by law, whichever rate is lower. In the event that Belding Tank Technologies, Inc. files suit or otherwise incurs attorney fees in order to collect monies owed by the purchaser the purchaser agrees to pay the cost of collection, including, but not limited to, all attorney fees incurred in the collection of this account. Belding Tank Technologies, Inc. may establish a credit limit and future credit sales may be refused when the account is delinquent.

A personal guaranty may be required as a condition of the extension of credit. Any individual or guarantor who signs a Guaranty, consents that we may obtain a consumer credit report regarding that individual at any time. Certain projects may require that "Notice of Lien" or "Notice of Furnishing" be provided to owners and general contractors as circumstances dictate, by Belding Tank Technologies, Inc.

As consideration for the extension of credit the Purchaser agrees to venue in any court in the county of Ionia, State of Michigan in the event any dispute arises between the parties. All sales and any disputes shall be governed by Michigan Law.

### CONDITIONS OF SALE AND TRADE CUSTOMS

1. Quotations and prices are subject to change without notice. All shipments will be billed at the Seller's prices in effect at the time of goods sold being manufactured and shall not exceed the maximum prices lawfully established under any applicable law or governmental regulation in effect at time of shipment. All transportation charges are for the account of the Buyer. If published rail or rail and water freight rates are increased or decreased prior to shipment, prices of unshipped materials or goods which may have been ordered on a "delivered price" basis shall be increased or decreased accordingly.
2. Quotations and sales are f.o.b. point of shipment unless otherwise expressly stated in a writing signed by both Seller and Buyer. Delivery of goods to Buyer shall be considered effective when the goods are placed with a common carrier for shipment to Buyer and title shall pass as of that date. Delivery is also subject to federal and state laws and regulations, fires, strikes, disputes with workmen, floods, accidents, embargoes, delays in transportation, shortage of cars, shortage of fuel or other material, shortage of labor, and to any other causes beyond reasonable control of the Seller. Seller does not guarantee to ship within the time promised, but uses its best efforts to do so and shall not be liable for any damage caused by delay in delivery. In the event of damage or loss in transit, consignee must give immediate written notice to the carrier's agent at destination and to Seller. Within 30 days after receipt of goods, Buyer must notify Seller in writing of any defects, claims for shortage, errors in shipment, or errors in charges. In the absence of such notice, Buyer will be deemed to have accepted all goods notwithstanding any defects, shortages, errors in shipment or charges, or other defects..
3. All orders, shipments and settlements are subject to approval by an Officer of the Seller. Should the Buyer fail to fulfill the terms of payment of any order between the Buyer and the Seller, the Seller may defer further shipments until such payments are made or may cancel any or all orders unshipped. The Seller reserves the right to require from the Buyer at any time satisfactory security for performance of the Buyer's obligations under any order placed with the Seller, and refusal or failure to furnish such security will entitle the Seller to suspend shipment until such security is furnished or to cancel the order, or orders, or the unshipped portion thereof. Orders for special goods may not be cancelled. Buyer shall become liable for and pay Seller's cancellation charges. A minimum base charge of 10% of the total sale price will apply to all cancellations. This may or may not include materials and labor applied to the job.
4. Seller warrants goods of its own manufacture against defects in material and workmanship only, for a period of one year from the date of shipment, to the extent that it will replace such goods f.o.b. point of manufacture, or allow credit therefor, at its election, when such goods are in the hands of the original purchaser and used in normal use and service. Other goods are warranted only to the extent of the express warranty of the manufacturer thereof and to the manufacturer thereof and to the extent such is enforceable by the Seller. NO WARRANTY EITHER EXPRESS OR IMPLIED IS MADE BY SELLER AS TO THE FITNESS, MERCHANTABILITY, CONDITION, CAPACITY OR EFFICIENCY OF ANY GOODS SOLD. SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS OR DAMAGE RESULTING FROM THE INSTALLATION, OPERATION, OR USE OF GOODS SOLD, INCLUDING, WITHOUT LIMITATION, LABOR COSTS, DIRECT, INDIRECT, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES, EVEN IF SUCH DAMAGES WERE CONTEMPLATED AT OR PRIOR TO THE SALE OF SUCH GOODS, BUYER'S ONLY REMEDY, IF ANY, IS LIMITED TO THE REFUND OF THE PURCHASE PRICE (EXCLUSIVE OF TAXES, INTEREST CHARGES, SHIPMENT COSTS, AND OTHER EXPENSES OF SELLER RELATED TO THE SALE), OR THE REPAIR OR REPLACEMENT OF THE GOODS ACCORDING TO THE EXPRESS WARRANTY SET FORTH IN THIS SECTION ABOVE. SELLER'S LIABILITY IS EXPRESSLY LIMITED AS SET FORTH IN THIS SECTION ABOVE AND THE REMEDY PROVIDED FOR THE BUYER ABOVE IS EXCLUSIVE OF ALL OTHERS. In the event of a warranty claim, Buyer must notify Seller in writing of any defect in the goods subject to this sale within 30 days of any acceptance of such goods. In the absence of such notice, Buyer's obligations shall be deemed irrevocable, unconditional and absolute. Any claimed defect shall be subject to inspection by Seller for determination, in its discretion, as to whether the claimed defect is subject to the warranty provisions of this section.
5. Materials shall be subject to Seller's standard manufacturing variations, classifications and extras. Seller reserves the right to change specifications at any time without incurring obligation for products previously or subsequently sold. All goods made to special specifications are deemed to be inspected and accepted before shipment is made. Packaging and loading will comply with current accepted standards.
6. Any taxes, excises, levies or charges which the Seller may be required to pay or collect under any existing or future law, upon or with respect to services and/or the sale, purchase, delivery, storage, processing, use, consumption or transportation of any of the materials covered hereby shall be for the account of the Buyer, and the quoted or otherwise applicable prices shall be increased thereby.
7. Failure of the Seller to enforce any of these conditions or to exercise any right accruing through the default of the Buyer shall not affect or impair the Seller's rights in case such default continues or in case of any subsequent default of the Buyer and such failure shall not constitute a waiver of other or future defaults of the Buyer.
8. No statement or recommendation made or assistance given by the Seller or its representatives to the Buyer or its representatives, in connection with the use of any products by the Buyer, shall constitute a waiver by the Seller of any of the provisions hereof or affect the Seller's liability, as herein defined.
9. Seller certifies that goods of its manufacture covered hereby were produced in compliance with all applicable requirements of Sections 6,7, and 12 of the Fair Labor Standards Act, as amended and of the regulations and orders of the U.S. Department of Labor issued under Section 14 thereof.
10. There are no understandings or agreements between the Buyer and the Seller relative hereto which are not fully expressed herein, and no change made herein shall be valid unless it is made in writing and signed by both parties.
11. Buyer shall defend, protect, indemnify, and hold Seller harmless, including its successors, representatives, agents and assigns from and against any and all claims, actions, suits, proceedings, costs, expenses, damages, and liabilities, including reasonable attorney's fees and costs, arising out of, connected with, or resulting from, the goods subject to this sale, including the installation, use or operation of the goods. This indemnification shall not extend to any claim arising out of the sole negligence of Seller.

## Alum (Aluminum Sulfate) Solution



| Concentration %                         | Temperature            | Resin                                                             |                         |
|-----------------------------------------|------------------------|-------------------------------------------------------------------|-------------------------|
| All                                     | ≤150° F.               | Isophthalic Polyester                                             |                         |
| All                                     | > 150° F. to ≤ 170° F. | Derakane 411 / Isophthalic Polyester                              |                         |
| All                                     | ≥ 170° F.              | Derakane 411                                                      |                         |
| Veil: Single C-Glass                    |                        | Catalyst: Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide) | Cure: No Post Heat Cure |
| Bolting Material: T-316 Stainless Steel |                        | Gasket Material: EPDM                                             | Note:                   |

## Hydrochloric Acid Solution



| Concentration %                        | MAX. Temperature                       | Resin                                                                                                         |                                                          |
|----------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| See Derakane Chemical Resistance Table | See Derakane Chemical Resistance Table | Derakane 411 (House Vinyl Ester) Standard. See Derakane Chemical Resistance Table for other available resins. |                                                          |
| Veil: Double C-Glass                   |                                        | Catalyst: Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide)                                             |                                                          |
| Bolting Material: Hastelloy-C          |                                        | Gasket Material: EPDM or FKM                                                                                  |                                                          |
|                                        |                                        |                                                                                                               | Note: 200 mil corrosion barrier above 15% concentration. |

## Hydrofluosilicic (Fluosilicic) Acid Solution



| Concentration %                         | MAX. Temperature | Resin                                                             |                              |
|-----------------------------------------|------------------|-------------------------------------------------------------------|------------------------------|
| 0.5 to 10                               | 180° F.          | Derakane 411                                                      |                              |
| 11 to 20                                | 140° F.          | Derakane 411                                                      |                              |
| 21 & >                                  | 100° F.          | Derakane 411                                                      |                              |
| Veil: Double Nexus                      |                  | Catalyst: Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide) | Cure: Hot Air Post Heat Cure |
| Bolting Material: T-316 Stainless Steel |                  | Gasket Material: EPDM                                             | Note:                        |

## Ferric or Ferrous Chloride Solution



| Concentration %                         | MAX. Temperature       | Resin                                                             |                                                                       |
|-----------------------------------------|------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------|
| All                                     | ≤150° F.               | Isophthalic Polyester                                             |                                                                       |
| All                                     | > 150° F. to ≤ 170° F. | Derakane 411 / Isophthalic Polyester                              |                                                                       |
| All                                     | ≥ 170° F.              | Derakane 411                                                      |                                                                       |
| Veil: Double Nexus                      |                        | Catalyst: Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide) | Cure: No Post Heat Cure                                               |
| Bolting Material: T-316 Stainless Steel |                        | Gasket Material: EPDM                                             | Note: Conditions hold true for Ferric or Ferrous Nitrate and Sulfate. |

### Plumbing away from the tank:

Use of flexible connections resistant to the stored product -

- Allows for lateral and vertical expansion and contraction of the tank.
- Reduces pump and piping vibration stress on the tank connection and wall.

**Note:** Flexible Connections should be connected to the tank flange.

Piping, valves and pumps must have structural support independent of the tank.

## Potassium Hydroxide Solution

## KOH

| Concentration %                         | MAX. Temperature | Resin                                                             |                                                 |
|-----------------------------------------|------------------|-------------------------------------------------------------------|-------------------------------------------------|
| 0.5 to 5                                | 180° F.          | Derakane 411                                                      |                                                 |
| 6 to 45                                 | 150° F.          | Derakane 411                                                      |                                                 |
| 50                                      | 150° F.          | Derakane 411                                                      |                                                 |
| Veil: Double Nexus                      |                  | Catalyst: Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide) | Cure: Hot Air Post Heat Cure                    |
| Bolting Material: T-316 Stainless Steel |                  | Gasket Material: EPDM                                             | Note: Tanks are NOT rated for product DILUTION. |

## Sodium Hydroxide Solution

## NaOH

| Concentration %                         | MAX. Temperature | Resin                                                             |                                                 |
|-----------------------------------------|------------------|-------------------------------------------------------------------|-------------------------------------------------|
| < 1 to 5                                | 180° F.          | Derakane 411                                                      |                                                 |
| 6 to 25                                 | 150° F.          | Derakane 411                                                      |                                                 |
| 26 to 50                                | 180° F.          | Derakane 411                                                      |                                                 |
| Veil: Double Nexus                      |                  | Catalyst: Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide) | Cure: Hot Air Post Heat Cure                    |
| Bolting Material: T-316 Stainless Steel |                  | Gasket Material: EPDM                                             | Note: Tanks are NOT rated for product DILUTION. |

## Sodium Hypochlorite STABLE Solution

## NaOCl

| Concentration %                                        | MAX. Temperature  | Resin                                                                                                                                                                 |                                                                                                                           |
|--------------------------------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 0.5 to 6                                               | 150° F.           | Derakane 411                                                                                                                                                          |                                                                                                                           |
| 7 to 17                                                | 120° F.           | Derakane 411                                                                                                                                                          |                                                                                                                           |
| 7 to 17   18 to 25                                     | 150° F.   100° F. | Derakane 510A                                                                                                                                                         |                                                                                                                           |
| Veil: Double C-Glass                                   |                   | Catalyst: BPO/DMA (Benzoyl Peroxide / Dimethylaniline) in the corrosion barrier and Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide) in the structural layers. |                                                                                                                           |
| Bolting Material: T-316 Stainless Steel or Hastelloy-C |                   | Gasket Material: EPDM                                                                                                                                                 | Note: The Sodium Hypochlorite must be made using DI or Soft Water and contain NO iron or other heavy metal contamination. |

## Sulfuric Acid Solution

## H<sub>2</sub>SO<sub>4</sub>

| Concentration %                                        | MAX. Temperature | Resin                                                             |                                                                           |
|--------------------------------------------------------|------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------|
| 0.5 to 50                                              | 210° F.          | Derakane 411                                                      |                                                                           |
| 51 to 70                                               | 180° F.          | Derakane 411                                                      |                                                                           |
| 71 to 80                                               | 100° F.          | Derakane 411                                                      |                                                                           |
| Veil: Double Nexus                                     |                  | Catalyst: Co/MEKP (Cobalt Octoate / Methyl Ethyl Ketone Peroxide) | Cure: Hot Air Post Heat Cure                                              |
| Bolting Material: T-316 Stainless Steel or Hastelloy-C |                  | Gasket Material: EPDM or FKM                                      | Note: Post heat cure is only required for concentrations higher than 70%. |

### Plumbing away from the tank:

Use of flexible connections resistant to the stored product -

- Allows for lateral and vertical expansion and contraction of the tank.
- Reduces pump and piping vibration stress on the tank connection and wall.

**Note:** Flexible Connections should be connected to the tank flange.

Piping, valves and pumps must have structural support independent of the tank.



(616) 794-1130



[sales@beldingtank.com](mailto:sales@beldingtank.com)



(616) 794-3666



[www.beldingtank.com](http://www.beldingtank.com)



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