



# Mercer Fabrication

For Tanks, silos, pressure  
vessels and other specialized  
equipment.

Mercer's commitment to craftsmanship and quality has made us an international leader in the design and manufacture of innovative engineering solutions for all industries.





## Tanks & Silos

Mercer Stainless tanks & silos are used in a wide variety of industries for storing and blending a range of liquids, powders and free-flowing solids. We have the ability to produce transportable silos and tanks up to a capacity of 500,000 litres, and can cater to specific requirements in relation to heating, cooling, and agitation.







Depending on the stored product, we can manufacture from a range of stainless steels, and engineer to suit local seismic classifications and mount on legs or a skirt. We can include a range of features such as manholes, CIP (clean in place), level and temperature sensors. Our silos utilise either a cone or dome base and top, which are manufactured in-house for sizes up to 4.6 - 5.5 metres in diameter. Mercer Stainless can also fabricate larger silos on-site for sizes which are not transportable.

We conform to the highest hygiene standards including welds that do not allow bacterial growth and CIP sprays to ensure thorough cleansing of vessels without any risk of product contamination.

## Our tanks and silos can be equipped with the following:

- Agitators, blending, mixing, surface scraping
- Heating and cooling utilising dimple pads, falling film, double skin jackets, tubes & fins designed for atmospheric or pressure, using water, glycol, refrigerants.
- Venting
- Sight Glass
- Level sensors
- Temperature sensors
- Manway access
- Platforms
- Ladders



# Pressure Vessels

For more than 50 years Mercer Stainless has been working with processing industries designing, developing and manufacturing a range of varied and specialised processing, mixing and cooking vessels.



Mercer Stainless is involved in the continuous evolution of the hygienic food processing industries and has compiled a full range of process vessels. Mercer's diverse range of vessels are all manufactured to meet the highest quality engineering standards and are in accordance with the pressure vessel code requirements. We have recently manufactured a range of vessels from full vacuum right through to 3,000 kPa and up to 700°C.

## Hoppers and Storage bins

Mercer Stainless manufactures a huge range of hoppers and storage bins. Our experience coupled with our innovative design team enable us to provide clients with a full design service that allows for the most exacting customer requirements.





# Transport Equipment

whether it is road, rail, liquids, solids, refrigerated or pressurised  
Mercer Stainless can engineer a solution for you.



Our streamlined tanks are designed to take everything the road or rail throws at it.

Our streamlined tanks are designed to take everything the road or rail throws at them. With a large variety of tank profiles, we can engineer our design into different combinations to suit local government requirements.

With insulated or uninsulated models, we can maintain product temperature characteristics even in the harshest of conditions. Combined with our patented PV Valve and a complete list of added features, we can transport almost anything, anywhere.

## Road/Rail Tankers

Mercer Stainless manufactures stainless steel tankers for many industries. Our proven engineering designs are available to accommodate any fluid or powder product.

Configurations:

- B-Double or B-Train
- Quad or Semi
- 4-Axle
- Rigid
- Helicopter landing pads
- Cells rated for G-Force classification



# PV Valve

A World First Valve for mechanized tank protection, dairy level clean in place (CIP) and filtering to atmosphere



The Mercer PV Valve offers protection against normal volume changes during transportation and routine operation on road and rail tankers. It also provides pressure and vacuum protection for your vessels and tanks during filling and emptying where potential failure situations occur. Additionally, it offers protection from over-filling should an already full tank continue to be filled.

The PV Valve offers a solution to the problem of on-road leakage caused by product surge due to the incorporation of a dwell time in the pressure relief function. The valves are spring to open, air to close, ie normally open, to reduce the risk of tank collapses. There is an indicator that is raised when the valve is open as a visual cue to the operational staff.

The PV Valve design has been enhanced by the development of a patented filter kit to EU6 level that can be retrofitted to existing valves. This allows for the protection of your transported or stored food products, avoiding the possibility of the ingress of contaminated air, especially while in transit. All Mercer PV Valves are able to be fitted with an internal CIP system. Those installations where the CIP header is inside the tank, cleaning is available through the addition of a directional spray ball centrally positioned immediately under the valve. External pipe work is easily connected to the valve via a teflon tube reducing maintenance costs and improving access for maintenance staff.





# Custom Benching

We work closely with joiners and architects throughout New Zealand to build a custom bench to fit your kitchen space and design requirements.

We have extensive experience in building a bench to fit your space and application.

We also use a variety of finishes and polishing specifications to give you the look you want. If you prefer, we will work with you individually to draw and build your bench. In addition to benches, we also manufacture a variety of rangehood flues, drawer fronts and kick plates, bathroom equipment and custom made sink bowls.

Installation options for the bowls include fully welded into the bench, top mounted or under mounted.



## Uprand Options



Pencil Coved

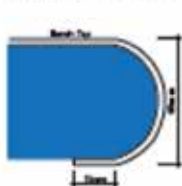


Diamond Bead

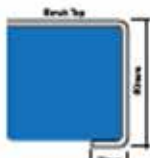


Slope

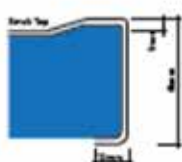
## Edge profiles available



Bull nose



Square



Wet edge

## Textured finishes available



Satin Brushed



Classic (Rotary)



Linen (Deco9)

## Substrate Options



316 grade steel Option

In addition to bulk materials handling Mercer Stainless specialises in the production of stainless steel equipment for the Dairy, Meat, Food Processing, Chemical and Pharmaceutical, Brewing, Pulp and Paper, Mining and Forestry industries. Mercer engineers solutions to meet client requirements and exceed their expectations. This is accomplished by building on our stainless steel, control technology, and process know-how with a large variety of materials and innovative manufacturing solutions. We are continually developing new patented solutions for industry.

## Products and services on offer:

### Bulk Materials Handling

Bulk bag loading  
Unloading stations  
Bin tippers  
Bin discharges  
Bag break stations  
Screw feeders  
Bag compactors  
Hoppers and feeders  
Bulk bag conditioners

### Materials Handling

Conveyors  
Elevators  
Singlisers  
Accumulators  
Pallet handling  
Scissor lifts  
Powder transfer systems  
Vibratory feeders & graders

### Packaging Equipment

Carton ladders  
Carton erectors  
Meat compactors  
Meat stuffers  
Block turners  
Bag trimmers  
Block inverters  
Rotary vacuum packers  
Integriseal seal tester  
Speedweigh scales  
Vertical form fill forming  
shoulders

### Transport Equipment

Road tankers  
Rail tankers  
Liquid tankers  
PV Valves

### General Fabrication

Platforms  
Stairways  
Structural steel  
Custom fabrication  
Architectural  
Custom benching  
Piping

### Services

Project management  
Design  
Plant maintenance  
Equipment modification  
Installation  
Shut down work

### Processing Equipment

Blenders  
Mixers  
Cooking & heating  
Boiling & brazing pans  
Cooling tunnels  
Pasteurizing  
Tumble chilling  
Cheese block cutting

### Inspection Equipment

Leak detectors  
Product analyzers  
X-Ray  
Metal detection  
Check weighers



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