

Cocky Valve Bottom Fill Trough Install Data Sheet.

Generally, these troughs are only used in feedlots but their acceptance into mainstream farming is certainly spreading. The design allows for the inlet and in most cases the outlet to be in the actual bottom of the trough. Its easiest to think of a bathtub and imagine the inlet is the bath outlet. The valve is positioned so it sits VERTICALLY. This allows all of the piping to be positioned UNDER the trough away from any damage and also allows the waste water to be diverted away from the holding yard.

The valve is positioned UNDER the water and can only be exposed if the trough empties. The design is a great solution where intensive pressure is applied to stock watering systems.

In most designs there is a small hatch in the side of the trough allowing access to connect the fittings during install.



In response to many enquiries from Feedlots looking for valves we have developed a configuration specifically to suit their needs.



With the trough inlet being vertical at the bottom we designed a unique arm that allows our valve to be mounted vertically and the valve arm sit just 35mm above the bottom of the trough when fully open and then moving up away from the bottom of the trough as the valve shuts off. When the valve is fully closed the end of the arm is only 150mm above the bottom of the trough.

The floats can be fitted to the float arm by either the short kit (**0298**) or the conventional 300mm float kit (**0229**). We have found the short kit allows the top of the float to finish at approx. 400mm above the bottom of the trough. This seems to suit many of the covers or protective grillage that come with these troughs. The valve then delivers approx. 300mm finished water depth in the trough (depending on in-flow pressure) which again seems to be the optimum water level.

We have also had installs where we have welded the Tee Piece (**0168**) to the arm and even shortened the arm slightly or bent it slightly higher to keep the floats in under a grillage or because the trough was so shallow it did not require the addition movement to shut off.

So generally speaking in these troughs the configuration is as follows:

1" Valve body (0014), 300mm Straight arm (Bottom Fill Troughs) (0717) Short kit (0298) or 300mm M10 Float Kit (0229) if vertical adjustment required. 200mm (8") float (0359).
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These arms can ONLY be configured on the Low-Pressure Pivot Point but in this configuration will still shut off with 760 kpa (110 psi).

If you have customers with these troughs, then you can advise them that we have a FULL FLOW High Pressure valve that will suit. If there are any questions whatsoever, please don't hesitate to contact us.

We have never come across a trough that we couldn't configure with our valves. We are always willing to work with our customers to develop a reliable solution.