



Telford Copper & Stainless Cylinders  
Operating & Instruction Manual  
Buffer Store Range

Unit 22 Furrows Business Park

Haybridge Road, Wellington

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## Specification.

The standard range of Telford Buffer Stores can be used for domestic and commercial installations. All buffer stores are manufactured on the stainless un-vented production line to EN12897 standards.

Standard design specification is as follows unless specifically requested otherwise:

Material: Duplex 2304 stainless steel

Maximum operating pressure: 3bar

Maximum working temperature: 90°C

Test pressure: 9bar

ERP Rating: Minimum C

Foam Type: Polyurethane

ODP: 0

GWP: 2.2

Casing material (if used): Coated mild steel

## Installation.

- A flat surface must be selected for installation, cylinders must not be installed on an uneven surface.
- Consideration to weight of tank and load bearing of chosen installation site must be taken. 1 Litre of water weighs 1kg, for reference.
- All cylinders must be fitted indoors, unless specifically ordered otherwise with appropriate IP rated electrical components.
- All soldered joints must be made before fitting pipework to the cylinder to avoid any solder falling in.
- Thermal expansion for all pipework running from cylinder must be provided for with an expansion vessel.
- Isolation valves must be fitted to allow for future services of components and tank.
- Pressure relief valves must run through a tundish to a drain/ safe gully.
- An expansion vessel for the buffer store must be fitted without any non return valves between the tank and the vessel. Sized no less than 10% of overall capacity.
- It is advised to insulate all pipework around cylinder to improve overall efficiency.

## Commissioning.

- During all filling or drain down process take extra care not to over pressurise the cylinder (as per the max operating pressure on the data sheet) or vacuum the unit, ensure cylinder is vented during drain down.
- When filling the unit for the first time, close all isolation valves on all draw offs / flows. Ensure automatic air vents are working and drain valves are shut. All pumps and electrical thermostats should be switched off.
- Once system is filled carefully inspect all made joints for leaks and repair if necessary.
- Heat source isolations can now be opened up and circulating pumps/thermostats switched on.

When draining down the unit, switch off all electrical pumps and controls. Isolate the mains feed and any flows to the store.

Open safety relief valve to release any static pressure.

Open manual air vent to prevent vacuum and then open drain valve to begin draining.