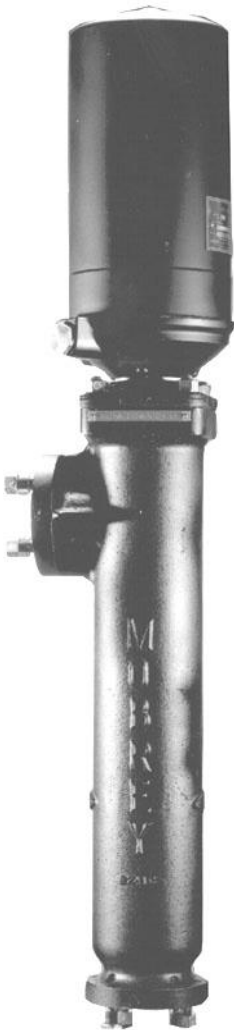


Pressure Equipment Directive/Pressure Equipment Safety Regulation: Safety Instructions

**UK
CA** **CE**





Safety Information: Vertical Boiler Chambers manufactured from carbon steel\

Pressure Equipment Directive (2014/68/EU) / Pressure Equipment (Safety) Regulation 2016 (Incl. Brexit amendments 2021)

These safety instructions are to be used in conjunction with the “Boiler Controls” product manual.

Definitions:-

$P_s \text{ max}$ = Maximum allowable chamber pressure at the stated temperature - bar

$T_s \text{ max}$ = Maximum allowable chamber temperature - °C

$T_s \text{ min}$ = Minimum allowable chamber temperature - °C

P_t = Chamber Test pressure - bar

This product is designed and manufactured to comply with Module H of the Pressure Equipment Directive 2014/68/EU; the Pressure Equipment (safety) Regulation (Inc. Brexit amendments 2021) Module H. It carries a CE and/or UKCA mark and has a Declaration of Conformity to show compliance with the relevant Directive/Regulation.

It is the responsibility of the installer/user of this equipment to ensure: -

- The product is installed and used by suitably trained personnel in accordance with all relevant Local and National regulations and codes.
- Safe working practices for the media and process concerned are followed during installation and maintenance.
- The materials of construction are suitable for the application. See also Table 1
- The pressure and temperature limits for this equipment are not exceeded, if necessary by the use of suitable safety accessories. See also Table 3
- All Delta Mobrey supplied installation fixing bolts are used where applicable, and are only replaced by exact equivalents. On all other flanges, the correct quantity, size and strength of bolts (clamp type) are used. All fasteners are evenly tightened to the correct torque. See also Table 2.
- Correct gaskets/seals are fitted and are compatible with the media and process.
- The product is protected from fire.
- The product is protected from impact.
- This product is not used as a support for other equipment or personnel.
- Regular inspection for corrosion and wear are carried out, both internal and external.

Table 1 - Vessel Pressure Materials

Component	Material Specification
Switch Mounting Flange – M12	ASTM A105
Switch Mounting Flange – M20	BS1501 224-490B LT50
Chamber Body Tube	ASTM A106 Grade B
Chamber End Cap	ASTM A105
Process Flange / Fitting	ASTM A105
Studs (where supplied)	ASTM A193 B7
Nuts (where supplied)	ASTM A194 2H

Table 2 - Bolt Torques (Flanges)

Flange Type	Bolting	Torque (Nm)
Switch Mounting Flange	M12	50
Switch Mounting Flange	M20	150
Bottom Flange	M12	50
Side Flange	M12	60
For use with high tensile bolts only. For further bolting torque details see L1880 + L1882		

Table 3:

Vertical Boiler Chambers manufactured from Carbon Steel

Chamber Type			
4561, 4661		4671	
8621, 8631, 8641		8645	
21	5	32	5
21	214	32	237
48		72	

Nameplate Stamping Explanation

e.g. 8645

$P_s \text{ max}$ 20C	$T_s \text{ min}$
$P_s \text{ max}$	at $T_s \text{ max}$
P_t	
32	
32	237
78	

$P_s \text{ max}$ 20C is the same as $P_s \text{ max}$ at $T_s \text{ max}$

$T_s \text{ min}$ for boiler chamber is always $5C = 5$

$T_s \text{ max}$ for 21 bar steam is $214C = 214$


$T_s \text{ max}$ for 32 bar steam is $237C = 237$


Vertical Boiler Chamber


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