

## Materials

The most versatile tank construction material is polypropylene (PP). It has superb chemical resistance, it is strong, resilient, non-crazing, light in weight - and its absence of odour, taint or toxicity make it widely acceptable within the water treatment, food, beverage, and pharmaceutical and electronic industries among many others. The PP materials used by Forbes have WRc and FDA approvals. DWI approval is also pending. HDPE can also be fabricated, however for the majority of applications its properties are inferior to those of polypropylene.

For specialised duties, thermoplastics such as UPVC, PVDF, ECTFE and FEP offer a range of properties, some quite exceptional. All are normally used as dual laminates reinforced with GRP.

All thermoplastics sheet used by Forbes is extruded from virgin top grade materials. No regrinds or lower grade materials are used.

Natural PP is used indoors, its translucency permits visual checking of contents. It will degrade from exposure to ultraviolet radiation (sunlight).

Black PP is UV-stabilised and quite suitable for long term outdoor installations.

## Tops

All tanks can be supplied with open or closed tops. Models 50 - 250 are normally supplied with open tops with optional push fit cover. Models 300 and above are frequently supplied with sealed cone tops with access manway although push fit lids are practical in many applications up to 1,500mm dia.

Where CIP cleaning is used, particularly for potable liquid or food industry applications, reinforcement strutting of larger cone tops is on the outside.

## Connections

It is not recommended to drill tanks on site for fitting inlets, outlets, overflows, etc. Your precise requirements can be prepared by our factory to meet the highest standards of safety and performance.

# PRODUCT RANGE

- ◆ Thermoplastics Tanks
- ◆ Tanks, Vessels & Fabrications  
GRP/THERMOPLASTICS DUAL LAMINATES
- ◆ Tanks, Vessels & Silos  
GRP COMPOSITES
- ◆ MINIBULK® Chemical Storage Systems
- ◆ Sectional Tanks
- ◆ Silos FOR SOLIDS & LIQUIDS
- ◆ Salt Saturators
- ◆ Pressure and Vacuum Vessels

- ◆ Fume and Odour Scrubbing Systems
- ◆ Vent Scrubbers
- ◆ CO<sub>2</sub> Degassers
- ◆ Stripping Towers
- ◆ Carbon Adsorption Units
- ◆ Bio Treatment Systems

- ◆ Ancillary Steelwork
- ◆ Skid Mounted Modules
- ◆ Turnkey Projects

For further information visit our website at: [www.forbesgroup.co.uk](http://www.forbesgroup.co.uk)

# FORBES



PLASTICS TANKS AND ENVIRONMENTAL TECHNOLOGIES

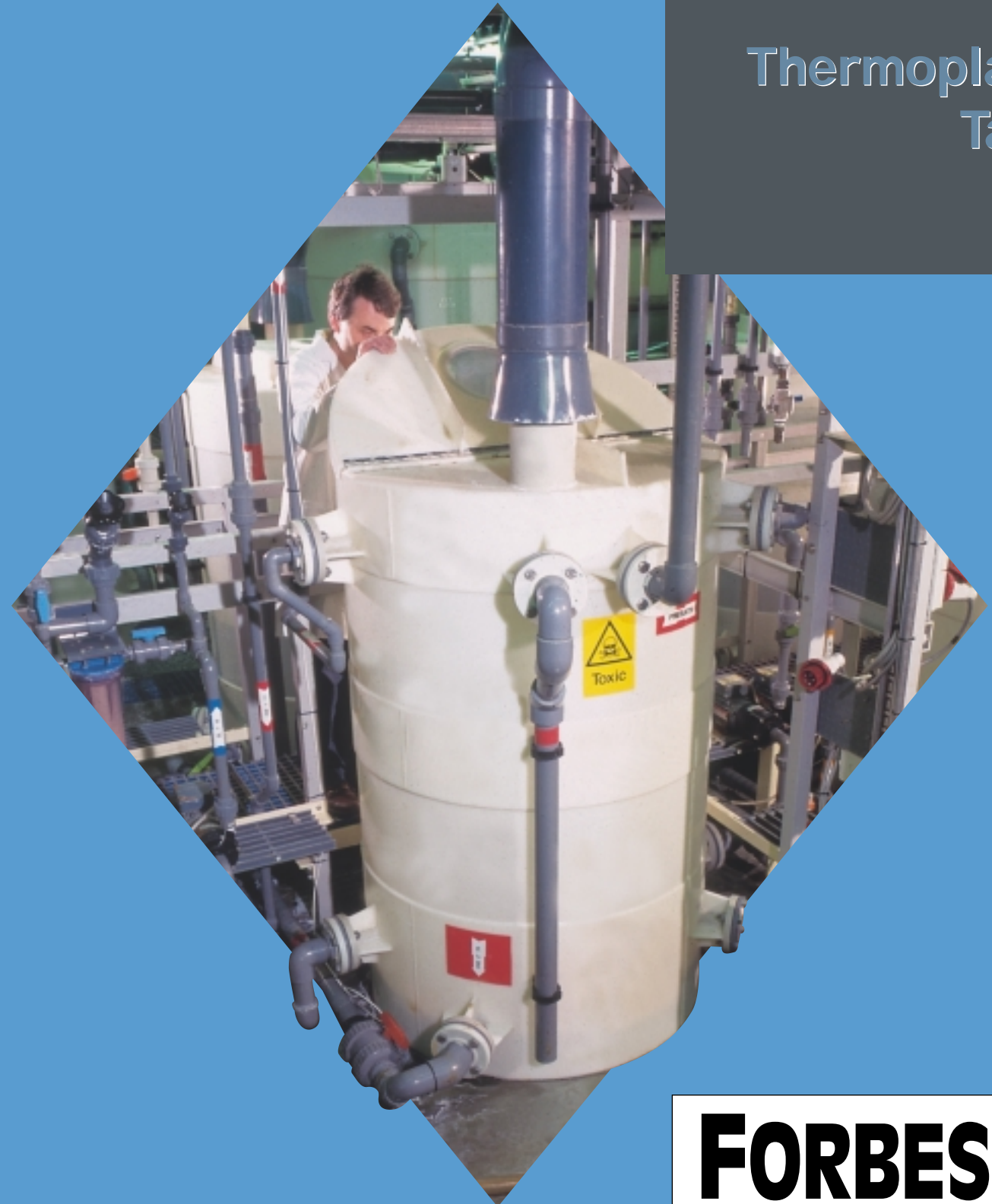
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BS EN ISO 9001 FM 24188

# Thermoplastic Tanks



# FORBES



PLASTICS TANKS AND ENVIRONMENTAL TECHNOLOGIES



# Thermoplastic Tanks

## SETTING THE STANDARDS

The acceptance of plastics materials by engineers was initially cautious but steady, yet plastics tanks are now so widely used that they now set the standards against which performance is judged.

Exceptional corrosion resistance, lack of taint, ease of transport and installation, durability, minimal maintenance - the merits of Forbes plastics tanks are now recognised in virtually every industry.

## MOVING FORWARD

Forbes has always been committed to testing and researching new materials and new technologies and continues to invest in new plant and equipment to ensure that we can continue to offer our customers the most appropriate products for their needs at the best value.

## STANDARD DESIGNS

Plastics tanks are invariably most cost effective when used as self-supporting vertical cylinders and this format is also most economical for tank farms and bunding.

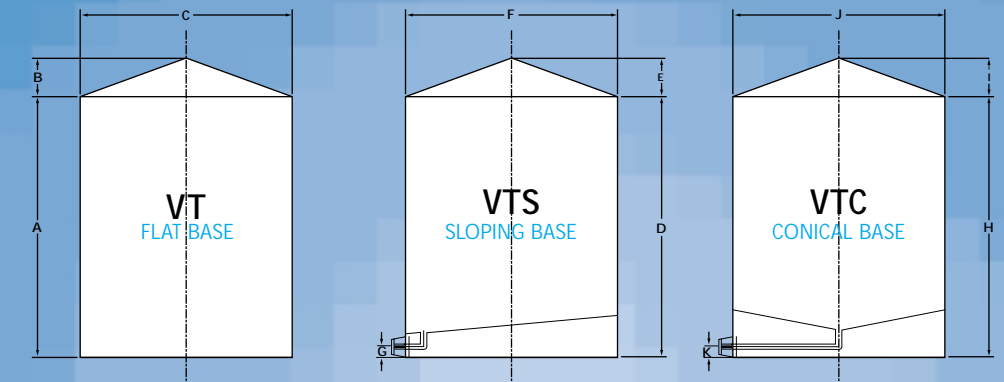
Designed for the most economical use of sheet materials, the Forbes VT range of preferred sizes offers flat bottomed tanks from 225 to 9,000 litres.

VTS tanks have sloped bases and VTC conical bases both with integral skirts and appropriate support struts. VTS models range from 225 to 6750 litres, VTC from 225 to 4,500.

Flat bases are most economical, sloping bases can be almost completely drained, and conical bases offer complete drainage.

## NON-STANDARD DESIGNS AND LARGER CAPACITIES

The standardised VT range assumes a nominal SG of 1.2, ambient operating temperature and atmospheric pressure. Other operating conditions can of course be accommodated and **alternative sizes and increased capacities are available. Please ask us to quote against your specific requirements.**



MODEL NUMBER	NOMINAL CAPACITY LITRES	WALL HEIGHT 'A' mm	CONE TOP 'B' mm	NOMINAL INSIDE DIAMETER 'C' mm
VT			FLAT TOP	
50	225	914	FLAT TOP	572
100	450	1067	FLAT TOP	762
150	675	990	FLAT TOP	965
200	900	1067	FLAT TOP	1090
250	1100	1220	FLAT TOP	1145
300	1350	1220	FLAT TOP	1220
350	1650	1372	FLAT TOP	1244
400	1800	1372	25	1346
450	2000	1372	50	1400
500	2250	1372	50	1498
600	2700	1524	75	1524
750	3350	1900	75	1524
800	3600	2060	75	1524
900	4000	2290	75	1524
1000	4500	2743	75	1524
1250	5600	2134	150	1900
1500	6750	2438	150	1900
1700	7600	2743	150	1900
2000	9000	2438	300	2240

MODEL NUMBER	NOMINAL CAPACITY LITRES	WALL HEIGHT 'D' mm	CONE TOP 'E' mm	NOMINAL INSIDE DIAMETER 'F' mm
VTS			FLAT TOP	
50	225	914	FLAT TOP	715
100	450	1067	FLAT TOP	915
150	675	1220	FLAT TOP	1015
200	900	1220	FLAT TOP	1175
250	1100	1372	FLAT TOP	1219
300	1350	1372	50	1330
350	1550	1372	50	1440
400	1800	1372	75	1520
450	2000	1524	75	1524
500	2250	1676	75	1520
600	2700	1676	150	1676
750	3350	1829	150	1750
800	3600	1829	150	1829
900	4000	2134	150	1750
1000	4500	2134	150	1900
1250	5600	2134	300	2100
1500	6750	2134	300	2300

Larger sizes are available - please contact our technical sales department

The nominal height (to centreline) of outlets G and K for VTS and VTC model is 150mm

MODEL NUMBER	NOMINAL CAPACITY LITRES	WALL HEIGHT 'H' mm	CONE TOP 'I' mm	NOMINAL INSIDE DIAMETER 'J' mm
VTC			FLAT TOP	
50	225	914	FLAT TOP	735
100	450	1067	FLAT TOP	914
150	675	1220	FLAT TOP	1050
200	900	1372	FLAT TOP	1125
250	1100	1372	FLAT TOP	1250
300	1350	1372	50	1372
350	1550	1372	50	1480
400	1800	1524	75	1480
450	2000	1676	75	1480
500	2250	1829	75	1480
600	2700	1829	150	1650
750	3350	1829	150	1850
800	3600	1981	150	1800
900	4000	2134	150	1829
1000	4500	2134	150	1950

