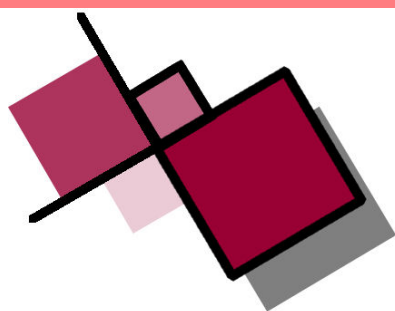


Products for the galvanic industry

Tanks from Thermoplastics



F.P.F. S.r.l.

Tank made out of:

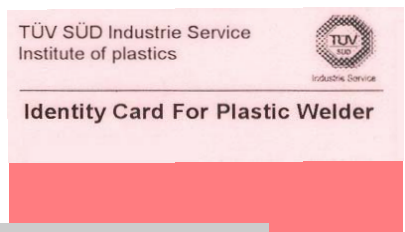
- PP Polypropylene
- PE-HD Polyethylene

The Company

F.p.F. Impianti S.r.l. got specialized, in a ten years activity, as a national leader in processing products made out of thermo-plastic materials.

Supplying the most important galvanic plant producers, as well as maintenance and revamping actions on already working plants allowed the company to gain and consolidate a heritage of experience and competence belonging today to everyone operating at F.p.F.

Thanks to this the main focus point of the company remained to be speed and flexibility in giving answers to a very dynamic market, guaranteeing always an optimum quality / price ratio. The continuous research of production tools permitting to improve competitiveness had been possible thanks to investments made by the ownership along these years .



Quality

The continuous research of production tools permitting to improve competitiveness had been possible thanks to investments made by the ownership along these years. Conscious of the importance that the quality of labor work has in this production process, any operator executing manual welding operations is certified by TÜV SÜD, and everyone for its own competence sector.

The certification process of the personnel gets concluded by a practical examination, and gets certified only after a valuation, carried out by accredited laboratories, concerning of the mechanical resistance of what had been produced during this examination. If required, but in any case for F.p.F. marked products, dimensioning calculations and tests are carried out using sophisticated software and applying as dimensioning criteria any limit imposed by the European Norms.

Tanks for indoor installation D 1600

- Built in PP or PE
- Design lifetime > of 20 years
- Designed for 1,2 density
- Design medium temperature 40 °C

160.035xx

X = 0 PP

X = 1 PE - HD

X = 0 Sloped bottom 15°

X = 1 Sloped bottom 15°

X = 2 Flat bottom

X = 6 Conical bottom 45°

X = 7 Conical bottom 60°

Internal diameter D [mm]	1600	1600	1600
Volume [m ³]	3	3,5	4
H [mm] bottom angle 0° ÷ 15° / 30°	1750 / 2000	2000 / 2250	2250 / 2500
HCH [mm] Conical bottom 45° / 60°	2150 / 2400	2400 / 2650	2650 / 2900
Base Code	160.03000	160.03500	160.04000
DE [mm]	1670	1670	1670
DP [mm]	500	500	500
Lifting Lugs [n x Ø mm]	2 x 30	2 x 30	2 x 30
Discharge nozzles [n x DN] *	1 x 80	1 x 80	1 x 80
Charge nozzles [n x DN] *	1 x 65	1 x 65	1 x 65
Colors	PE: RAL 9001 — PP : RAL 7032		
DED [mm]	1870	1870	1870

Example of code "160.03512" : tank of 1600 mm diameter , 3,5m³, PE-HD, flat bottom.

Standards tanks overview

	3m³	3.5m³	4m³	5m³	6m³	8m³	10m³	12m³	14m³	16m³	18m³	20m³	22m³
D 1600	✓	✓	✓	✓	✓	✓	✓						
D 1800			✓	✓	✓	✓	✓	✓	✓				
D 2000						✓	✓	✓	✓	✓	✓	✓	
D 2200							✓	✓	✓	✓	✓	✓	✓

The base code is the code corresponds to a tank made out of PP, with charge nozzles, discharge nozzles and manholele. Dimesions as in the catalog, For nozzles positions see page 11. All this tanks are available with collecting tank.

1600	1600	1600	1600
5	6	8	10
2750 / 3000	3250 / 3500	4250 / 4500	5250 / 5500
3150 / 3400	3650 / 3900	4650 / 4900	5650 / 5900
160.05000	160.06000	160.08000	160.10000
1670	1670	1670	1670
500	500	500	500
2 x 30	2 x 30	2 x 30	2 x 30
1 x 80	1 x 80	1 x 80	1 x 80
1 x 65	1 x 65	1 x 65	1 x 65
PE: RAL 9001— PP: RAL 7032			
1870	1870	1870	1870

* For Nozzles positions see page 11

Tanks for indoor installation D 1800

- Built in PP or PE
- Design lifetime > of 20 years
- Designed for 1,2 density
- Design medium temperature 40 °C

180.040xx

X = 0 PP

X = 1 PE - HD

X = 0 Sloped bottom 15°

X = 1 Sloped bottom 15°

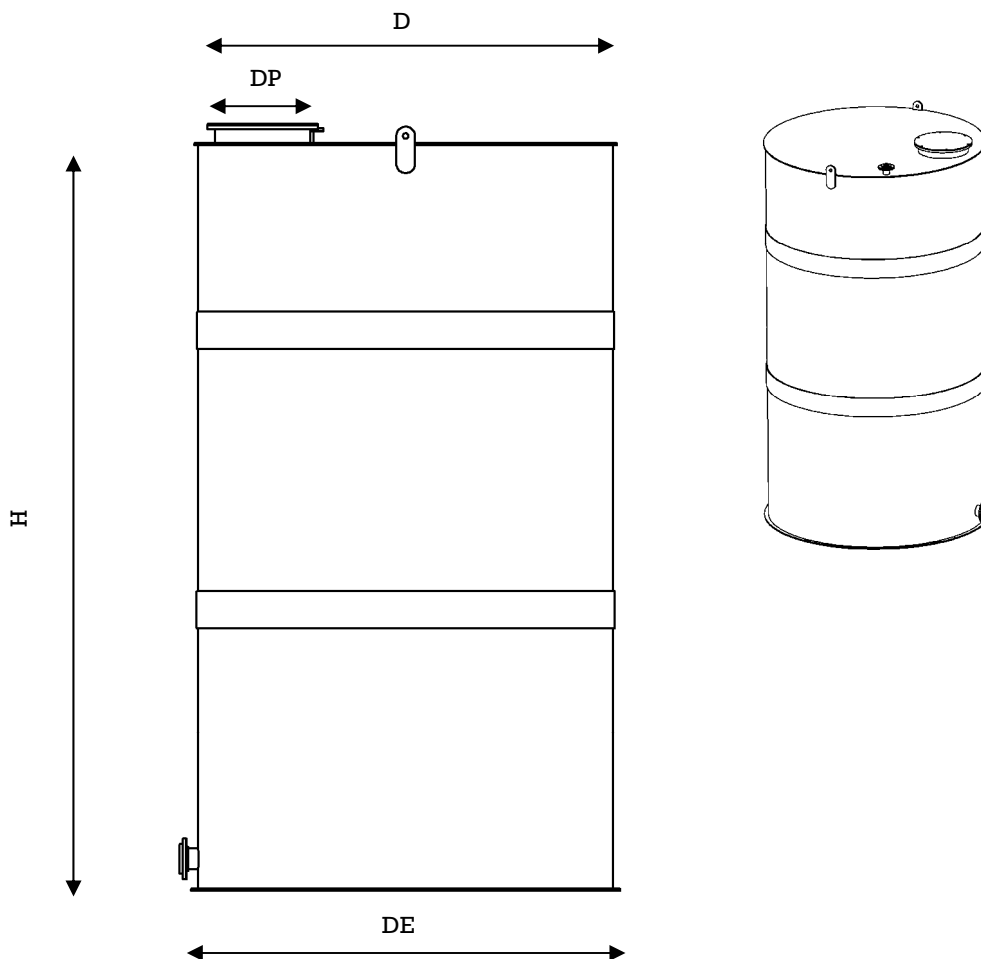
X = 2 Flat bottom

X = 6 Conical bottom 45°

X = 7 Conical bottom 60°

Internal diameter D [mm]	1800	1800	1800
Volume [m³]	4	5	6
H [mm] bottom 0° ÷ 15° / 30°	2000 / 2250	2400 / 2650	2800 / 3050
HCH [mm] Conical bottom 45° / 60°	2300 / 2600	2700 / 3000	3100 / 3400
Base Code	180.04000	180.05000	180.06000
DE [mm]	1870	1870	1870
DP [mm]	500	500	500
Lifting Lugs [n x Ø mm]	2 x 30	2 x 30	2 x 30
Discharge nozzles [n x DN]	1 x 80	1 x 80	1 x 80
Charge nozzles [n x DN]	1 x 65	1 x 65	1 x 65
Colors	PE: RAL 9001— PP: RAL 7032		
DED [mm]	2070	2070	2070

Example for configuration "180.04012" : Tank 1800 mm diameter, 4m³, PE-HD, flat bottom.



1800	1800	1800	1800
8	10	12	14
3600 / 3850	4400 / 4650	5200 / 5400	6000 / 6250
3900 / 4200	4700 / 5000	5500 / 5800	6300 / 6600
180.08000	180.10000	180.12000	180.14000
1870	1870	1870	1870
500	500	500	500
2 x 30	2 x 30	2 x 30	2 x 30
1 x 80	1 x 80	1 x 80	1 x 80
1 x 65	1 x 65	1 x 65	1 x 65
PE: RAL 9001— PP: RAL 7032			
2070	2070	2070	2070

Made in PP key .XXX0X
Made in PE-H key .XXX1X

Tanks for indoor installation D 2000

- Built in PP or PE
- Design lifetime > of 20 years
- Designed for 1,2 density
- Design medium temperature 40 °C

200. 100xx

X = 0 PP

X = 1 PE - HD

X = 0 Sloped bottom 15°

X = 1 Sloped bottom 15°

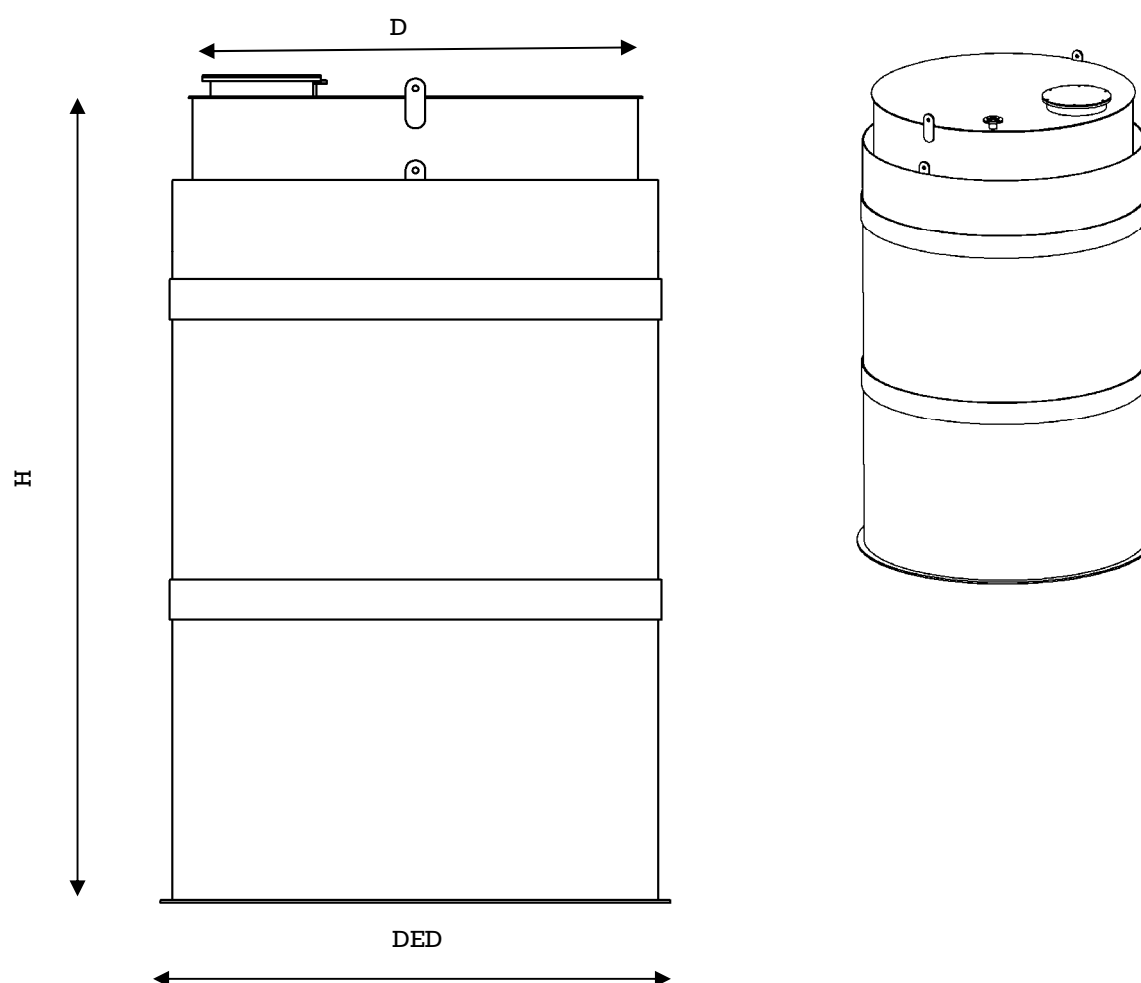
X = 2 Flat Bottom

X = 6 Conical bottom 45°

X = 7 Conical bottom 60°

Internal diameter D [mm]	2000	2000	2000
Volume [m ³]	8	10	12
H [mm] bottom 0° ÷ 15° / 30°	3000 / 3300	3600 / 3900	4200 / 4500
HCH [mm] Conical bottom 45° / 60°	3300 / 3650	3900 / 4250	4500 / 4850
Base Code	200.08000	200.10000	200.12000
DE [mm]	2070	2070	2070
DP [mm]	600	600	600
Lifting Lugs [n x Ø mm]	2 x 30	2 x 30	2 x 30
Discharge nozzles [n x DN] *	1 x 150	1 x 150	1 x 150
Charge nozzles [n x DN] *	2 X 100	2 x 100	2 x 100
Colors	PE: RAL 9001— PP: RAL 7032		
DED [mm]	2270	2270	2270

Configuration example : “200.10011” : Tank 2000 mm diameter 10m³, PE-HD, sloped bottom 30°



2000	2000	2000	2000
14	16	18	20
4800/5100	5400/5700	6000 / 6300	6600 / 6900
5100 / 5450	5700 / 6050	6300 / 6650	6900 / 7250
200.14000	200.16000	200.18000	200.20000
2070	2070	2070	2070
600	600	600	600
2 x 30	2 x 30	2 x 30	2 x 30
1 x 150	1 x 150	1 x 150	1 x 150
2 x 100	2 x 100	2 x 100	2 X 100
PE: RAL 9001— PP: RAL 7032			
2270	2270	2270	2270

* For Nozzles positions see page 11

Tanks for indoor installation D 2200

- Built in PP or PE
- Design lifetime > of 20 years
- Designed for 1,2 density
- Design medium temperature 40 °C

220. 120xx

X = 0 PP

X = 1 PE - HD

X = 0 Sloped bottom 15°

X = 1 Sloped bottom 15°

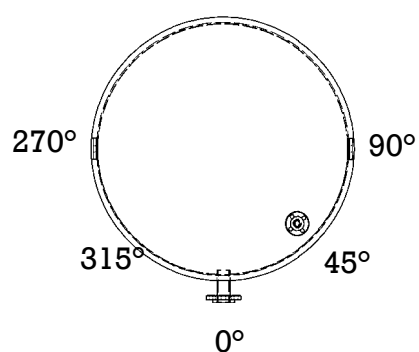
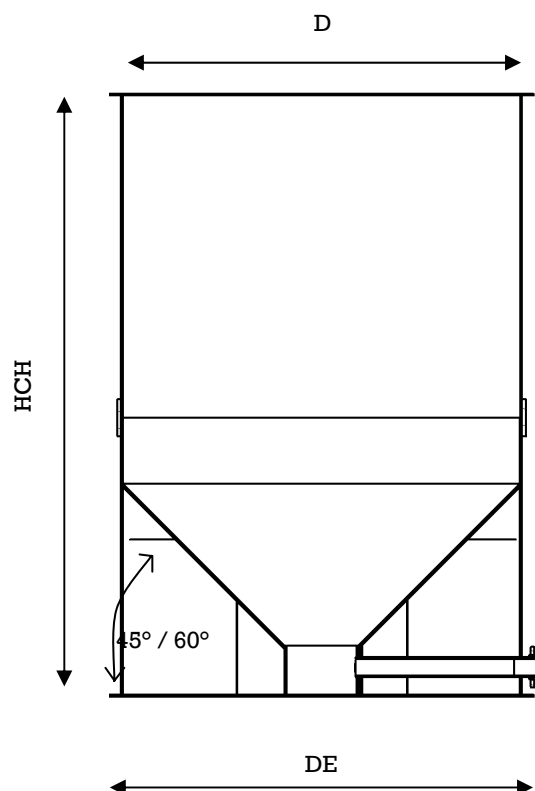
X = 2 Flat bottom

X = 6 Conical bottom 45°

X = 7 Conical bottom 60°

Internal diameter D [mm]	2200	2200	2200
Volume [m ³]	10	12	14
H [mm] bottom 0—15° / 30°	3000 / 3400	3500 / 3900	4000 / 4400
HCH [mm] Conical bottom 45° / 60°	3500 / 3900	4000 / 4400	4500 / 4900
Base Code	220.10000	220.12000	220.14000
DE [mm]	2270	2270	2270
DP [mm]	600	600	600
Lifting Lugs [n x Ø mm]	2 x 30	2 x 30	2 x 30
Discharge nozzles [n x DN]	1 x 150	1 x 150	1 x 150
Charge nozzles [n x DN]	2 x 100	2 x 100	2 x 100
Colors	PE: RAL 9001— PP: RAL 7032		
DED [mm]	2470	2470	2470

Example for configuration : “220.12002” : Tank of 2200 mm diameter, 12m³, PP, flat bottom

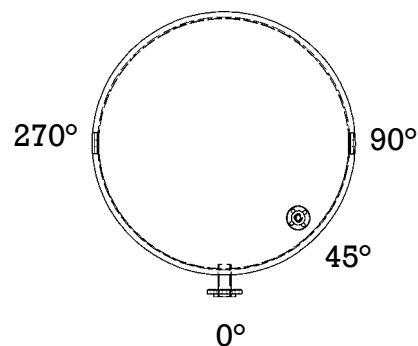
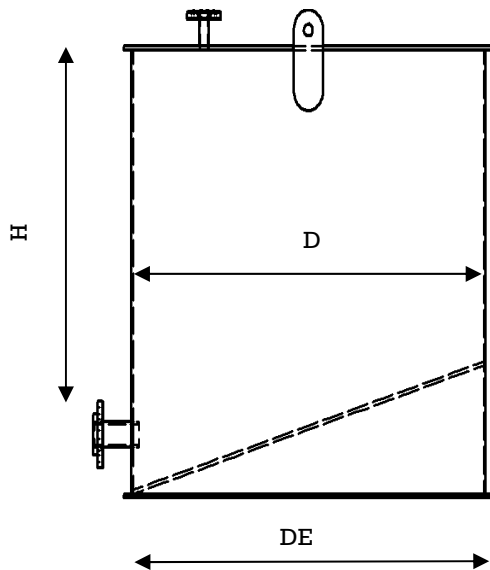


Lifting Lugs	Hole 30mm	270°
Lifting Lugs	Hole 30mm	90°
Charge	DN100 free flange	315°
Charge	DN100 free flange	45°
Discharge	DN150 free flange	0°
Description		Position

2200	2200	2200	2200
16	18	20	22
4500 / 4900	5000 / 5400	5500 / 5900	6000 / 6400
5000 / 5400	5500 / 5900	6000 / 6400	6500 / 6900
220.16000	220.18000	220.20000	220.22000
2270	2270	2270	2270
600	600	600	600
2 x 30	2 x 30	2 x 30	2 x 30
1 x 150	1 x 150	1 x 150	1 x 150
2 x 100	2 x 100	2 x 100	2 x 100
PE: RAL 9001— PP: RAL 7032			
2470	2470	2470	2470

Made in PP key. XXX0X
Made in PE-H key . XXX1X

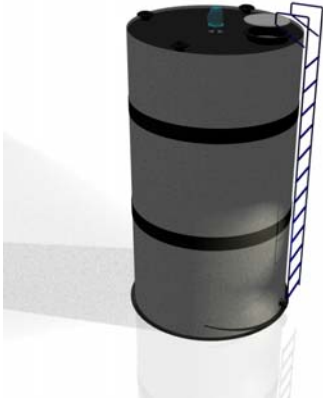
Tanks for indoor installation , with sloped Bottom D 1200 - D1400



Lifting Lugs	Hole 30mm	270°
Lifting Lugs	Hole 30mm	90°
Charge	DN32 free flange	45°
Discharge	DN50 free flange	0°
Description		Position

Diameter D [mm]	1200	1200	1200	1400	1400	1400
Volume [m³]	1	1,5	2	2,5	3	3,5
H [mm] bottom 0-15° / 30°	1100/1300	1600/1800	2000/2200	1800/2000	2200/2400	2500/2700
Base Code	120.01000	120.01500	120.02000	140.02500	140.03000	140.03500
DE [mm]	1250	1250	1250	1450	1450	1450
DP [mm]	300	300	300	500	500	500
Lifting Lugs [n x Ø mm]	2 x 30	2 x30	2 x30	2 x30	2 x30	2 x30
Discharge nozzles [n x DN]	1 x 50	1 x 50	1 x 50	1 x 65	1 x 65	1 x 65
Charge nozzles [n x DN]	1 x 32	1 x 32	1 x 32	1 x 50	1 x 50	1 x 50
Colors	PE: RAL 9001— PP: RAL 7032					
Sloped bottom angle	15°/30°/0°					

Configuration example : "120.01500" : Tank of 1200 mm diameter, 1,5m³, PP, sloped bottom 15°.



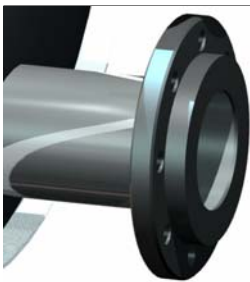
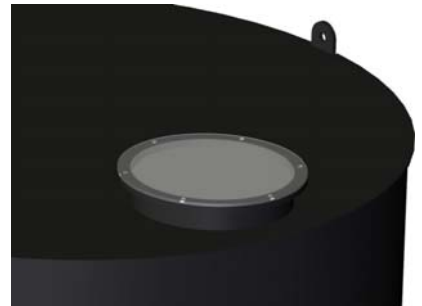
Customization and optional

Storage tanks can be equipped with:

- agitators
- entering stairs
- heating coil

Manhole

To permit access to the storage tank it is possible to require a manhole having different dimensions compared to the standard ones.



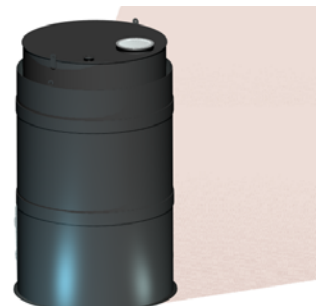
Charge and discharge nozzles

They can be positioned on the entire circumference and numberless.

DN≤150 mm

Double wall

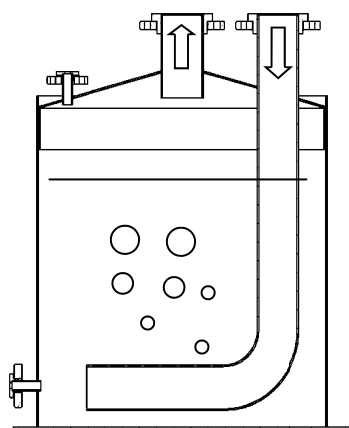
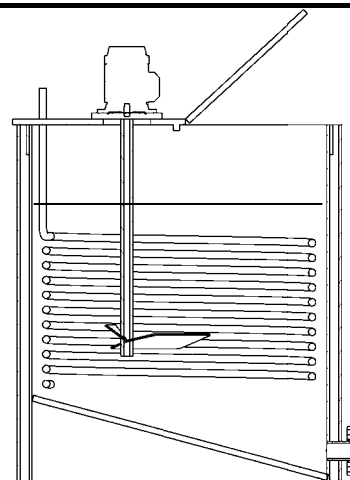
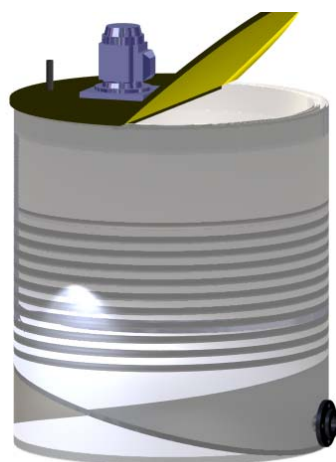
If required any storage tank can be supplied with a double wall. The containment wall can be accessorized with a feeler detecting eventual leakages.



Other products from the same family

Mixing tank

- Delivered with heating coil, made out of PP, Titan or StainlessSteel.
- Mixer 230V or 400V voltage
- Fluid temperature until 90 °C
- Insulated wall



Fume washer



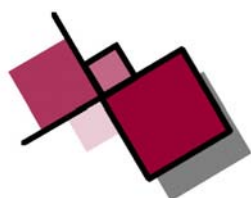
Compatibility with main fluids

Fluid			%	PE-HD			Polypropylene		
				60°C	40°C	20°C	60°C	40°C	20°C
Hydrochloric acid			36%	-	0	+	+	+	+
Nitric acid			40%	-	-	0	-	-	0
Oxalic acid						+			+
Perchloric acid			70%	+	0	-	+	+	0
Sulphuric acid			60%	+	+	+	+	+	+
Sulphuric acid			90%	0	+	+	0	+	+
Ethyl alcohol			96%	+	+	+	+	+	+
Gasoline				0			+	+	0
Perchlorethylen						0			0
Hydrogen peroxyd			30%	+	+	0	+	+	+
Kerosene				+	0	0	+	+	0
Caustic soda			50%	+	+	+	+	+	+

+ Resistant

0 Partially resistant

- Non resistant

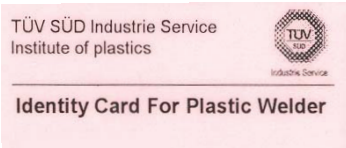


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