

EVERSUPP

## Eversupp Technology Corp.

### Fluoropolymer Products:

1. PTFE/TFM/PFA/PVDF sheet Lining.
2. For Semiconductor Industry.
3. ISO TANK.
4. Heat Exchanger.
5. Filter.
6. Pipe & Fitting & Valve.

**We Always Put You First**

### HOW WELL GROUP

[www.eversupp.com.tw](http://www.eversupp.com.tw)

- 1989 HOW WELL ENVIRONMENTAL ENGINEERING CO., LTD and invested in environmental protection business
- 1995 Construction of Nangang Factory in Nangang Industrial Park Service Center., Nantou
- 1995 Obtained the first domestic (100T/day) waste incineration representative treatment plant license
- 1997 Passed ISO ( 1400) authentication
- 1998 HOW WELL ENVIRONMENTAL ENGINEERING CO., LTD, obtained the certification of the first representative treatment plant for the incineration of infectious medical waste.
- 1999 EVERSUPP TECHNOLOGY CORP, a professional fluoropolymer and semiconductor business system
- 2002 SKYLARK TECHNOLOGY ENTERPRISE CO, LTD., the largest combined environmental transportation company in Taiwan

### Eversupp Technology Corp.

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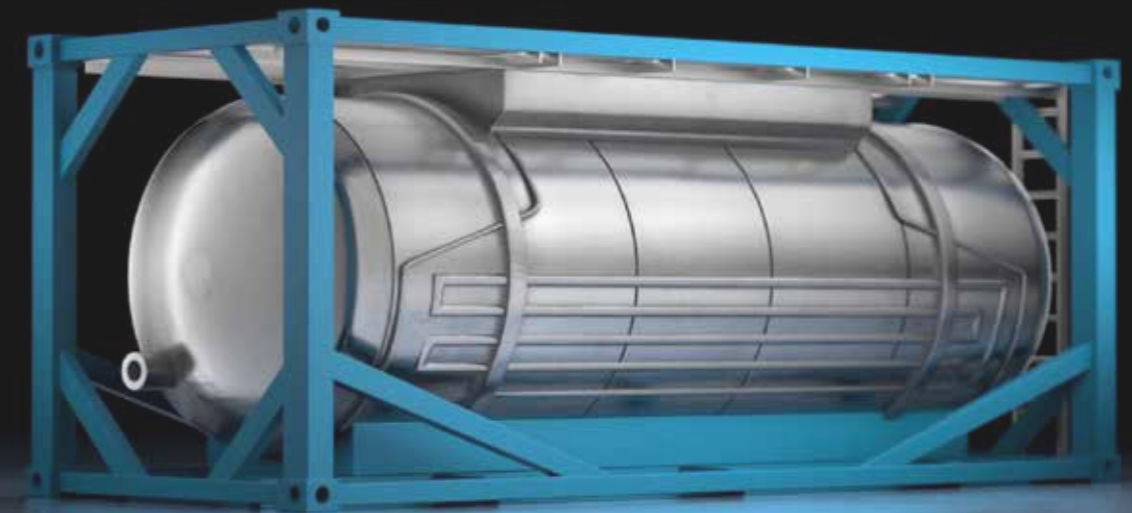


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Since 1999



EVERSUPP is established in 2000, inherited the Taiwan native place spirit and the fine enterprise culture, grasped is achieving well the matter, pursue remarkable value determination, wholly absorbed in fluoropolymer product:

- (1) Fluoropolymer application material, (2) Lining equipment,
- (3) Various types electron chemical storage and plumbing engineering design manufacture.

**Eversupp main three categories of products**

**Fluoropolymer application materials**

Pipe fittings, Pipes, Sheet, Coatings, etc.

**Fluoropolymer lining**

Tanks, Tank trucks, Filters, Heat-exchangers, Tower tanks, etc.

**Chemical storage and accessories**

Engineering design and manufacturing of various electronic chemical storage and pipeline systems

**We Always Put You First**

For many years has invested the massive research and development funds, enters 3 Napier metric system regulations after IC, the generation enters the next stage from high-purity (the PPT chemical), provides a higher purity, the high-purifier fluoropolymer product, satisfies the electron level chemical the request; Promotes central the tank trough system regulation to is controls for the acid the regulation, the substitution admires originally the overseas import equipment, the quality obtains Japan's examination authentication and obtains the semiconductor(TSMC, UMC, GlobalFoundries, PSMC, Winbond), the panel industry(AUO, Chi Mei), the chemical industry lives the technique(Formosa Plastics, Changchun, Changxing, AUECC, Sanfu Chemical) , and the well-known big plant the use, the success makes EVERSUPP the corporate image.

EVERSUPP rigid in the security and the quality standard, and take We always put you first as the idea, future will continue to satisfy various industries regarding the fluoropolymer product application demand, create the high value the product, will altogether create the win-win aspect with the customer.

**Center Chemical Dispensing System**



**System Integration**

Applies in the semiconductor system regulation, TFT-LCD, the solar energy, the biochemistry, the medicine, in food industry factory service system the equipment, the meter electricity, the scene pipeline carries on the whole plan, the design, the construction and the maintenance.

**System Design**

- Project integration management
- Factory supply equipment design
- Instrument and Electrical Engineering Design
- On-site engineering pipeline construction
- Electronic chemical supply planning and design
- Design of deployment equipment
- Separate tank equipment output
- Design of acid supply equipment
- Purification (distillation) equipment output design
- Analytical instrument design

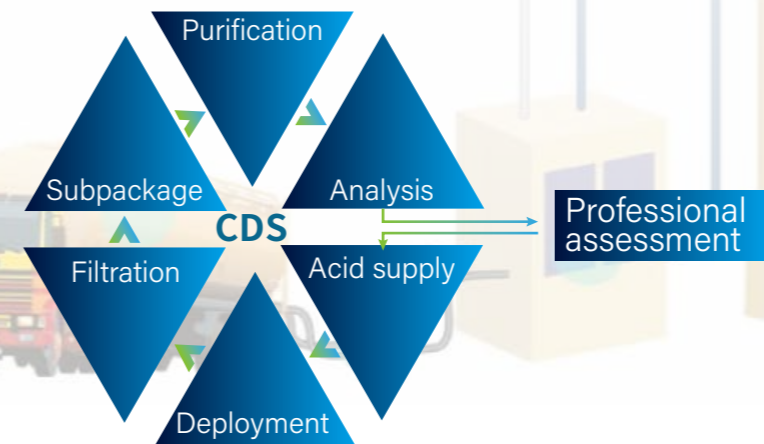
**Central Monitoring System**



**Wet Station**



**CDS**

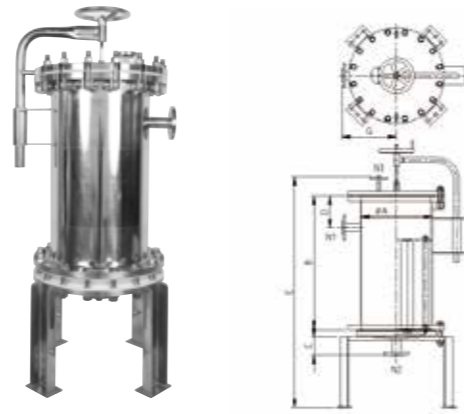


### Filter Housing

In accordance to the semiconductor and the panel industry for the sour system, EVERSUPP develop the lining PTFE Cartridge Filter type and the Lining PTFE Bag Filter especially far, Has waited for the Cartridge Filter and Bag Filter from 0.1 um~60 um, satisfy customer need and the market demand.

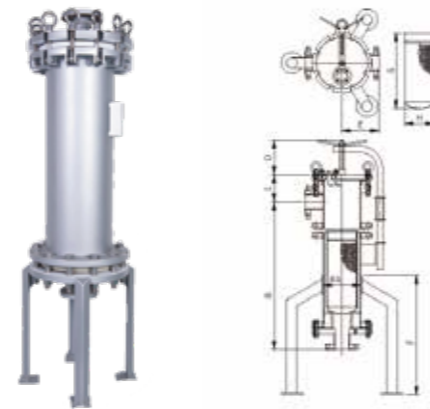
### Lining M-PTFE Cartridge Filter Housing

- The tightness of the filter element can be designed according to each manufacturer without leakage
- M-PTFE sheet, screw and fixed base plate
- Cleanliness : Semiconductor grade
- Acceptance standard: vacuum, insulation, pressure test



### Lining M-PTFE Bag Filter Housing

- The filter bag and the filter basket have a tenon, which can be tightly combined without leakage
- Fluid flow : Customization
- 3MM M-PTFE or silicone gasket
- Acceptance standard: vacuum, insulation, pressure test



### PFA/PTFE/M-PTFE Sheet Lining

The use in each kind of tank trough equipment, from the low temperature to under the high temperature general temperature range and the severe working condition, provides the best corrosion resistance, the drug resistance, the anti-stickiness, the long-term service life and so on. The use in the chemical transportation tank car, can maintain the purity request and the science transport mode, is suitable in chemistry, the petroleum, the drugs manufacture, the semiconductor and so on.

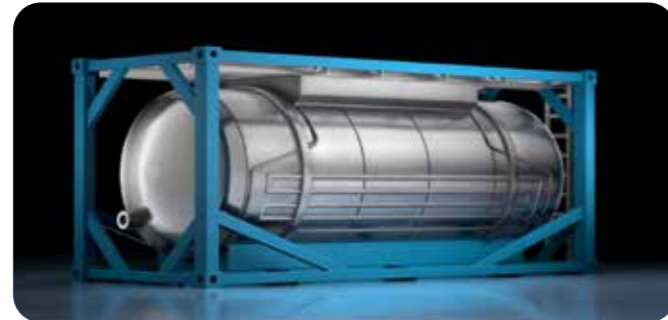


| IQC   | In-process inspection                                  | Product testing  |
|---|--|--|
| Workpiece inspection<br>Raw material inspection | Tapping test, weld bead inspection<br>Nozzle detection | Visual inspection, pinhole test<br>Pressure test, insulation test<br>Full water test |



### ISO TANK (semiconductor grade)

EVERSUPP provides professional ISO TANK, Acid-resistant, alkali-resistant, and corrosion-resistant, It is very suitable for transporting chemicals required for the process by filling and cleaning and transporting chemical-related waste liquids.



#### Certificate

UN=UN Certificate  
LC=No UN approval

#### Frame

1D=10ft  
1D=10ft  
1C=20ft  
1CC=20ft HQ

#### Jacket

10=Insulation  
11=Heating Duct + Insulation  
00=No Insulation  
12=Cooling Duct + Insulation

#### Insid Finish

BA=Buffing  
EP=Electric Polish  
TFE=PTFE  
TMF=TFM

## Portable tank choose

#### Capacity

6000L  
7000L  
12000L  
20000L

#### Steel Material

SUS304  
SUS304L  
SUS316  
SUS316L

#### Jacket Finish

2B=Stainless 2B  
BA=Stainless BA  
AL=Prepainted Aluminum  
PT=No clad body painting

#### Liner thickness

2.0mm  
2.4mm  
3.0mm



DAXIN MATERIALS CORP.  
178-GF  
12M3 ISO Tank Lined PTFE

### FPA Heat Exchanger

The heat exchanger is different according to the industrial category, the guest makes the Tank type heat Exchanger, the Shell & Tube type heat Exchanger, the Loop type heat Exchanger, the Coil heat Exchanger, the production conforms to chemistry, the semiconductor, the electron, the photoelectricity and so on is connected the high tech industry demand heat interchanger, the fine production management experience obtains many customers punctually in the field the oral traditions recommendations, the delivery date, the quality reliable is the important reason which the customer chooses EVERSUPP

- Suitable for heating or condensing high-purity electronic grade chemicals.
- Application: can be used as a reaction tank; used for heating or Condensate HCL, H2SO4, CuSO4, HF, HNO3, etc.
- The maximum heat exchange area is 100M<sup>2</sup>.
- Made to order according to satisfy client requirement, acid and alkali resistance, corrosion resistance.



TANK Heat-exchanger

#### Achievement

- Changchun copper sulfate cooling 100m<sup>2</sup>
- Winbond sulfuric acid system PFA condenser for removing hydrogen peroxide
- Sanfu Chemical TMAH cooling 100m<sup>2</sup>
- TSMC cryolite recovery cooling system

### Shell & Tube Heat-exchanger



- Heating and cooling for the solar photovoltaic and semiconductor industry process.
- Application: heating or cooling of corrosive liquids, (high-purity acid, lye, solvent, oxidant, etc.), heating ultrapure water, condensing corrosive gas, etc.
- The maximum heat exchange area is 100M<sup>2</sup>.
- Design to satisfy client requirement.

- The maximum operating pressure is 10kg/cm<sup>2</sup>, The maximum operating temperature is 180°C and the maximum heat exchange area is 30M<sup>2</sup>.
- Made according to customer needs, acid and alkali resistance, corrosion resistance, Usually used to heat or condense HCL, H2SO4, CuSO4, HF, HNO3, etc.

### Loop Heat-exchanger



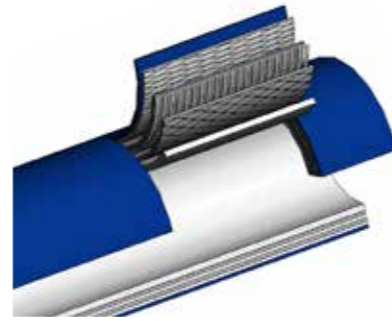
### Coil Heat-exchanger



- Suitable for small tanks and containers, overcoming the limitation of size.
- Economical and effective solution to the problem of acid and alkali heating or cooling.
- The maximum heat exchange area is 8M<sup>2</sup>.

### PLCT Hose PFA chemical tube (for tank truck)

EVERSUPP provides PLCT HOSE after the FDA authentication, has the fine heat resistance and the chemical properties, bears the hydrofluoric acid, the heat resistance as well as the enormous bending and the smooth tube design, is suitable the tank car, for the acid, pulls out work and so on material, flushing, entire vacuum system.



- Certification: FDA American Food and Drug Inspection.
- Vacuum resistance (negative pressure).
- Excellent chemical resistance HCL.H2SO4.HF. HNO3. P2PO4. H2O2, etc.
- There is no precipitation of any substance, and it is used exclusively for semiconductor grade.
- Strong temperature resistance -40 °C ~-170 °C, passed the 280°C steam test.
- Used for tank trucks, acid supply systems, pumping systems, acid discharge systems, and vacuum systems.

| TYPE   | ID(mm) | OD(mm) | Working pressure 20°C(bar) | Working pressure 20°C (psi) | Min Burst Pressure (psi) | Min Bend Radius (mm) | Weight (kg/m) | Vacumm Resistance (bar) |
|--------|--------|--------|----------------------------|-----------------------------|--------------------------|----------------------|---------------|-------------------------|
| 1/2"   | 13     | 25     | 36                         | 525                         | 2100                     | 150                  | 0.52          | -0.9                    |
| 3/4"   | 19     | 31     | 35                         | 500                         | 2000                     | 187.5                | 0.92          | -0.9                    |
| 1"     | 25     | 37     | 31                         | 450                         | 1800                     | 225                  | 1.11          | -0.9                    |
| 1-1/4" | 32     | 44     | 28                         | 400                         | 1600                     | 262.5                | 1.45          | -0.9                    |
| 1-1/2" | 38     | 51     | 24                         | 337.5                       | 1350                     | 337.5                | 1.77          | -0.9                    |
| 2"     | 50     | 66     | 21                         | 300                         | 1200                     | 414.5                | 2.21          | -0.9                    |

### Flexible Hose

As a result of the semiconductor industry vigorous development, makes the regulation to be higher to the fluoropolymer request, EVERSUPP specially develops the fluoropolymer high pressure hose inside lining coil, provides chastely, bears the acid and alkali, the high quality coil of solves the electron, the chemical industry, food and so on needs.



- Assured sterility.
- Easy cleaning & Non stick.
- Excellent chemical resistance.
- Temperature: -73oC(-100oF)~232oC(450oF)
- Spiral " Open-pitch ", can be cleaned by steam, caustics, solvents and any kinds of deterative.

#### Flange

SUS316、SUS304、PVDF、PP、PVC

#### Cap

SUS316、SUS304、PVDF、PP、PCTFE

| Calibra name |        | Caliber size |     |     |     | Connect size |     |     | Poessure             |
|--------------|--------|--------------|-----|-----|-----|--------------|-----|-----|----------------------|
| A            | B      | PID          | TID | TOD | BOD | A            | B   | C   |                      |
| 25A          | 1"     | 26           | 29  | 32  | 34  | 125          | 90  | 55  | 18kg/cm <sup>2</sup> |
| 40A          | 1-1/2" | 38           | 41  | 44  | 46  | 140          | 10  | 70  | 16kg/cm <sup>2</sup> |
| 50A          | 2"     | 51           | 54  | 57  | 59  | 155          | 120 | 85  | 15kg/cm <sup>2</sup> |
| 80A          | 3"     | 75           | 90  | 93  | 95  | 185          | 150 | 115 | 12kg/cm <sup>2</sup> |

### Fitting & Pipe

In response to the chemical industry and semiconductor manufacturing process, EVERSUPP has specially developed fluoropolymer lined pipelines to provide cleaner and wider acid-resistant pipes in response to the waste acid discharge system.



### EL-Grade Quick Coupler

- Fast engagement.
- Cleanliness: Semiconductor grade.
- Resistant to various chemical liquids, strong acids and alkalis HCL、H2SO4、HF、HNO3、H2O2, etc.
- High temperature resistance



PFA+SUS304 stainless steel wire mesh

※Integral molding ※Clean, pressure resistant, acid and alkali resistant

**Valve**

The valve accessory main body is uses the cast iron and the pure steel products penetration high temperature high pressure way manufacture.Lining PFA provides the anti-static electricity patching and the anti-acid and alkali corrosion seepage. The design enable the pipe accessory to have the long service life.

- Broad temperature resistance: -60°C~+200°C(-75°F~+400°F).
- Working pressure: The maximum vacuum resistance is 16bar (235psi).
- Anti-corrosion outer protective layer, suitable for HCL、H2SO4、CuSO4、HF、HNO3, etc.
- In the sealing area, the thickness of the PFA lining is completely uniform, and it is integrally formed, Improved the ability of anti-permeability materials.



PFA lined Diaphragm Valve imported from Germany



PFA lined Butterfly Valve imported from Germany



PFA lined Ball Valve imported from Germany  
Integrally formed,  
Longest service life  
Maximum pressure 16 Bar



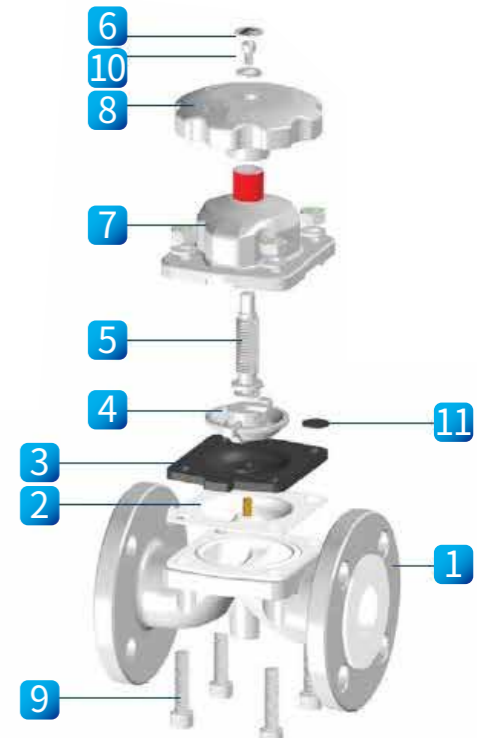
PFA lined Check Valve



PFA Lined Ball Valve



PFA Lined Diaphragm Valve



- Minimum 3mm thick as per ASTM F1545 requirement.The PFA liner is locked to the dovetails, to prevent liner collapse.
- Adjustable travel stop limits the seating thrust and prevents damage to the diaphragm.
- Multi-layered diaphragm protects cushion rubber more tightly. Especially, the lower PTFE sheet in contact with the fluid is made by Modified PTFE.
- Floating connection between the control screw and diaphragm to prevent concentrated loads, improve the seal and extend its lifetime
- Open/close position is easily identified due to yellow indicator



**Spray Ball 360°**

The semiconductor special-purpose 360° revolving high pressure clean spray ball, by the PTFE manufacture, bears the acid and alkali, may use under the maximum temperature 95°C environment, the clean angle 360° autorotation zero angle, for semiconductor tank special-purpose decontamination unit.

