

Air Operated Double Diaphragm Pumps



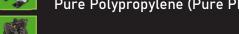
YTS is a Japanese manufacturer of Air Operated Double Diaphragm pumps with Superior Quality and Finish



Most Comprehensive range of AOD



Pure Polypropylene (Pure PP)



Conductive Polypropylene (Conductive PP)

Glass Fiber Reinforced Polypropylene (GFRPP)



PVDF



Industrial PTFE



Conductive PTFE



High Purity PTFE



Aluminum



Stainless Steel



Cast Iron





3/8" 1/2" 3/4" 1" 1 1/2" 2" 3"

Specialty Pumps



Electro-Polished













170m

950 l/min











Specialty Pumps







Passive Dampener

Flap Valve Solids

PTFE or Nickel Coated

Split Manifold

High Temperature PTFE





Accessories & Spare Parts



Specialty Diaphragms

Active Pulsation Dampeners

Spare Parts

- Pneumatic Liquid Level Controller 🔷 Diaphragm Rupture Sensor Kit

 - Electric Proximity Sensor ◆ Pneumatic Cycle Counter Kit



Japan 🔸

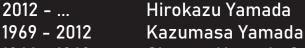
YTS was founded in Tokyo, Japan in 1966 by Mr. Shotaro Yamada Senior, who was a long-term (since 1923) president of the parent company Yamada Corporation. Originally, the company was called Howa Keiki Seizousho. In 1976, the company name was changed to YTS Co., Ltd. YTS stands for Yamada Technical Service.



The current President - Mr. Hirokazu Yamada, is the third generation of the Yamada family that has been managing the company since its founding in 1966. YTS Presidents:







1966 - 1969 Shotaro Yamada Senior

Europe, The Netherlands —



Current President of YTS Pump Engineering BV Mr. Gerard Heikens Gerard Heikens President began to cooperate with YTS Japan in 1983. YTS Pump Engineering BV



The first developments of the 11/2", 2" and 3" Polypropylene pumps from solid PP material have been made by Mr. Heikens in Europe in the beginning of 90's.

Mr. Heikens developed safety valve apparatus for air pressure operable diaphragm pump, which was patented in 2000 (Patent number: 6129521).



YTS Pump Engineering BV in Netherlands is not only trading company, but is a part of R&D and manufacturing departments of YTS in Japan. We take an active role in development of new pumps and accessories. Our experience staff use their engineering expertise to help customers find the most suitable solutions for their projects.

YTS Pump Engineering BV serve customers from Europe, Middle East and Africa supplying pumps, spare parts and accessories from warehouse located in Doetinchem, Netherlands. Apart from delivering ready products, we also make pumps modifications complying with customers demands for their special projects.







YTS pumps are designed for High Performance Operation and Long Life Expectancy. Engineered with various design features not often found in other brand AODD pumps.



YTS pumps are designed for High Performance Operation and Long Life Expectancy. Engineered with various design features not often found in other brand AODD pumps. YTS has been engaged in the design of diaphragms pumps for over 50 years, and has produced pumps used in just about every application throughout the entire world. The know-how accumulated through an integrated system of design, development, manufacturing, assembly, and sales as well as following customers opinions and feedback have been inherited by our engineers and applied directly to all current or new design concepts.

YTS pumps are manufactured in two plants:



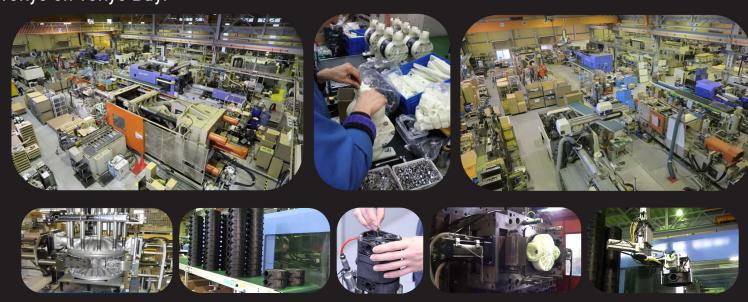






Yotsukaido Manufacturing Plant

Both are located in Chiba Prefecture - about 40 kilometers southeast of the center of Tokyo on Tokyo Bay.



Industries served































YTS®

place where innovations are born



Most Important Patents

→ 1987

A new High-Temperature Double Diaphragm pump was developed. (Japanese patent jointly owned with Fujitsu).

Patent Number #2518842

→ 1993

A new Long-life C-Spool Valve for 1 ½" 2" and 3" Double Diaphragm Pumps with a special sealing structure enabling fully lubrication free operation.

Patent Number #3150012

→ 1995

A new method of manufacturing Metal free PTFE Diaphragms was developed.

Patent Number #2726014

→ 1997

An Electric Pump Controller with an emergency stop function was designed and manufactured.

Patent Number #3083275

→ 2001

A Special Diaphragm pump, Automatic Self-Start Recovery Valve for the use in the semiconductor industry was designed. (Differential-Pressure Type).

Patent Number #3416656

→ 2012

A new range of high-performance ½"
Diaphragm Pumps available in Pure PP, PVDF, aluminum, & stainless steel.

Patent Number #1493139, #1494339, #1494140

→ 2013

A new range of high-performance 1"
Diaphragm Pumps available in aluminum cast iron & stainless steel.

Patent Number #1493116, #1493474

→ 2014

A new mechanical Air Spool with increased switching reliability and lower air consumption. New Looped C[®] Spool Air Valve Developed and introduced for sale.

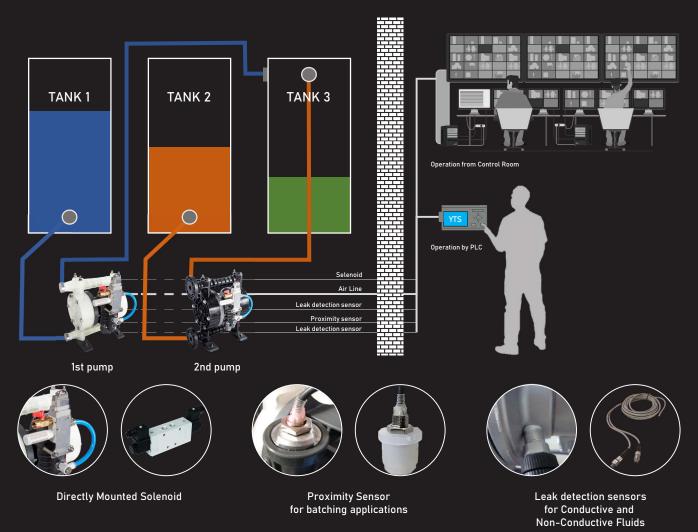
Patent Pending

The Industrial Internet of Things (IIoT)

YTS pumps enhanced with electronic interface capability provides sensor signals to accurately measure flow rates, control pumps via electronic solenoids and monitor diaphragms health using leak-detection sensors.

This allows to transform pumps operation from inefficient manual processes to intelligent fluid management. Pumping process can take place without constant monitoring from people.

Nowadays, many plants operates their processes in centralized control rooms. YTS pumps with electronic interface capabilities allows machine-to-machine communication. This help users of YTS pumps eliminate inaccuracies, increase production, reduce downtime, improve processing efficiency and maintain the highest safety standards.



Option available for all YTS pumps sizes and materials.

Options available for non-hazardous areas and hazardous areas (ATEX).



High Performance Metallic Pumps



600 l/min

780 l/min

950 l/min

220 l/min

200 l/min

Glass Fiber Reinforced Polypropylene







1/4" D050GT-X 11,5 l/min



3/8" D101G-X 18 l/min



3/8" D100G-X 24 l/min



1/2" D150G-X 28 l/min



1/2" D151G-X 54 l/min



3/4" D200G 120 l/min



3/4" D200GJ 120 l/min



/ 1" D250G 170 l/min



1" D250GJ 170 l/min

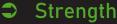


Glass Fiber

Reinforced Polypropylene

advantages over Polypropylene:

Adding Glass Fiber reinforcement to Polypropylene significantly increase stiffness in molded pump's elements.



Reinforcing Glass Fibers provide pumps with increased strength, which translates into the ability to resist deformation or creep under loads and higher fatigue endurance with minimal compression.



1 1/2" D400GJM 380 l/min



1 1/2" D400GJ 390 l/min

Toughness (Durability)

Glass Fiber reinforcement helps pump's elements resist cracking and impedes crack propagation by forming a robust internal fiber skeleton.



Glass Fiber Polypropylene Pumps retain a significant amount of their durability at low and elevated temperatures. Pumps exhibits reduced thermal expansion.



Stiffness gains through fiber reinforcement also translate into increased performance at elevated temperatures.



2" D500GJM 620 l/min



2" D500GJ 630 l/min



3 D800GJM 760 l/min



D800GJ 820 l/min

Conductive Fiber Polypropylene pumps

for Chemical transfer in Explosive environments







1/4" D050C-X 11 l/min



1/2" D152C-X 56 l/min



D250C-X 170 l/min



1 1/2" D400CJM-X 380 l/min



1 1/2" D400CJ-X 390 l/min



D500CJM-X 620 l/min



D500CJ-X 630 l/min

Pure Polypropylene (PP) for Chemical pumps







D050PT 11,5 l/min



3/8" D101P 18 l/min



1/2" D152P 56 l/min



Pure Polypropylene properties

Good chemical resistance over a wide range of bases and acids

Poor resistance to chlorinated solvents and aromatics

High thermal expansion coefficient

> Susceptible to UV degradation

pumps for transfer

ggressive and Hazardous fluids





PVDF (Polyvinylidene Fluoride) (Kynar®) is often used for applications where there is a need to resist harsh thermal, chemical and ultraviolet environments and is used especially for the production, storage and transfer of corrosive fluids. PVDF pumps are considered safe for the transfer of a large range of highly corrosive chemicals and are also safe for use in explosive environments and can achieve a certain level of ATEX certification.

PVDF (Kynar®) exhibits

- High chemical corrosion resistance
 - High temperature resistance
 - High mechanical strength
- Low permeability to most gases and liquids
 - High abrasion resistance
 - Electrical conductivity
 - Resistance to ultraviolet radiation
 - Light weight









1/4" D030V 8,2 l/min



1/4" D050V 11 l/min



1/2" D152V-X 56 l/min



3/4" D200V-X



D250V-X 170 l/min

CONTROL



D250VJ-X



170 l/min



SOLENOID OPTION FOR ALL MODELS



D400VJM 380 l/min





1 1/2" D400VJ 390 l/min



D500VJ 630 l/min

(C2U2F2)n

High Purity Virgin PTFE pumps

tor Clean Koom chemical transfer transfer





D030HT 8,2 l/min



D050HT 11 l/min



D100HTJ 27 l/min



D200HTJ 54 l/min



D250HTJ 64 l/min



D400HTJ 95 l/min

Industrial Grade P for Aggressive chemical transfer



Used for transfer deliver aggressive and hazardous fluids in the semiconductor production



D030TT-X 8,2 l/min



D050TT -X 11 l/min



D150TTJ 50 l/min



50 l/min



D250TTJ 150 l/min





Self-priming pneumatic diaphragms pumps

Consistent and precision fluid transfer



Specific amounts of fluid can be transferred and metered



Pumps can run dry and work in dead head applications



Can transfer liquid laden slurries



100% nonlubricated design to reduce the chance of liquid process contamination and also offers 100% clean emissions free exhaust air



Metal free liquid wetted section



Machined liquid mating surfaces



Outside accessible air spool

Electrically Conductive PTFE pumps for Aggressive and Flammable fluids for use in Explosive environments





- Electrically conductive PTFE liquid wetted section
- Conductive PPS/Polypropylene air motor section
 - Electrically groundable with ATEX certification
 - Safely operate in explosive environments



1/4" D050ET-X 11 l/min

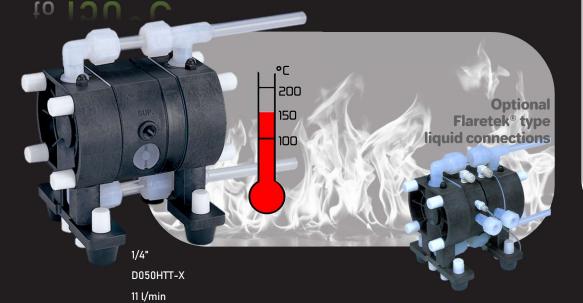


1/2" D152ET-X 50 l/min



1" D250ET-X 150 l/min

High Temperature PTFE
pump for Aggressive liquids up





Self-priming pneumatic diaphragms pumps

Consistent and precision fluid transfer

Specific amounts of fluid can be transferred and metered

Pumps can run dry and work in dead head applications

Can transfer liquid laden slurries and large sized solids

100% nonlubricated
design to reduce the
chance of liquid
process contamination
and also offers 100%
clean emissions free
exhaust air

Machined liquid mating surfaces

Outside accessible air spool

Independent pilot valves

Conductive Active Pulsation Dampeners



Fully Automatic Operation with Self Adjusting Speed and Pressure Control

3/8" 10 Series

Aluminum, Stainless Steel, Conductive Fiber Polypropylene

15 Series

Aluminum, Stainless Steel, PVDF, Acetal, Conductive Fiber Polypropylene, Conductive PTFE 25 Series

Aluminum, Stainless Steel, Cast Iron, PVDF, Conductive Fiber Polypropylene, Conductive PTFE 11/2" 40 Series

Aluminum, Stainless Steel, Cast Iron, PVDF, Conductive Fiber Polypropylene 50 Series

Aluminum, Stainless Steel, Cast Iron, PVDF, Conductive Fiber Polypropylene

Passive Pulsation Dampeners

Stainless Steel ◆ Conductive Fiber Polypropylene ◆ Conductive PTFE

Separate devices and directly mounted on the pump







Sizes:

1/4" 3/8" 1/2" 3/4" 1 1/2"





Most comprehensive range of AODD pumps



