

Air Operated Double Diaphragm Pumps



D100 Plastic

3/8" Plastic Diaphragm Pump Data Sheet

Max Flow Rate: 18 L/min.

Liquid Connections: 3/8" Female Centre Ports / Multiports.

Max Slurry Size: 1.0 mm.

Max Suction Lift: Dry: 2.0 meters. Wet (Primed): 8.0 meters.

Max Discharge Pressure: 0.7 MPa

Check Valve Configuration: Ball Valves.

Pump Wetted Material Options: Pure PP & GFRPP.

Diaphragm Options: PTFE, CR, NBR, TPEE, TPO.

Air Motor Material: Aluminium.

Description: 3/8" Plastic AODD Pumps available in Pure PP & GFRPP. Spring-Less Air Spool.

Aluminium Air Motor. Threaded Centre Port Connections (GFRPP Models) & Multi Ports

(PP models). Ball Check Valves. External Plastic Silencer.

Pump Features: 3/8" plastic AODD Pumps fitted with the Spring-less Air Spool & Ball Check Valves designed for frequent start stop & frequent dead head applications. Large range of standard Diaphragm elastomer options. Compact size, drop-in dimensions & footprint. Fully bolted body & stable SUS steel base. 100% oil or grease lubrication free offering clean, emissions free, environmentally friendly operation. Easily maintainable with modular replaceable wear parts & manual Spool Reset Switch. Fully torqued, leak and operation tested prior to shipment. Designed and manufactured in Japan.

D100P□-PP

3/8" Pure PP Pump.
Multiport Liquid
Connections.

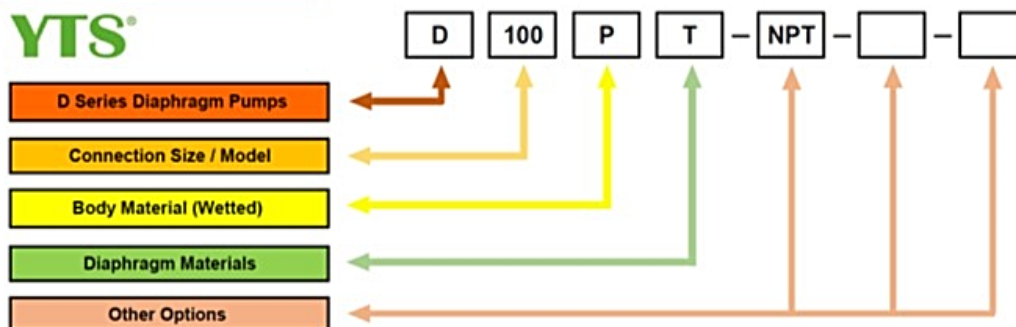


100 Plastic Pump Specifications

Pump Model / Material	PC PN PH PS PT	PC-PP PN-PP PH-PP PS-PP PT-PP
Max Flow Rate	18 L/min [4.8 Gallon/min]	
Max Solids Size	1.0 mm or Less	
Max Discharge Pressure	0.7 Mpa [100 PSI]	
Max Suction Lift	Dry: 2.0 meters. Wet (Primed): 8.0 meters.	
Supply Air Pressure Range	0.2 - 0.7 MPa [30 - 100 PSI]	
Max Air Consumption	250 L/min(ANR) [8.83 SCFM]	
Max Discharge Volume Per Cycle	50 mL	
Ambient Temperature Range	0 - 70 °C [32 - 158 °F]	
Liquid Temperature Range	0 - 60 °C [32 - 140 °F]	
Connections: Suction & Discharge	3/8" Female Threaded Centre Ports (Multi-Ports on Pure PP Models)	

Note. Factors affecting a pumps stated liquid flow rate, suction lift & solids handling capabilities include but are not limited to; pump size, diaphragm, ball valve & ball seat, type & materials of construction, air inlet pressure & air flow capability, liquid viscosity, specific gravity, slurry content, ambient & liquid temperature, liquid inlet & liquid outlet width, piping type, piping length & overall piping configuration. A minimum supply air pressure of 30 PSI (0.2 MPa) is required to operate the pump. If the supply pressure is less than 30PSI (0.2 MPa), the pump may not operate properly. Oil & Grease Lubrication is not required under normal operating conditions. All 100 Series Diaphragm Pumps are shipped complete with a SUS Steel Base, SUS Air Inlet Shutoff Valve & External Exhaust Silencer as Standard Accessories. Pure PP pumps are also shipped with 2 Liquid Outlet Plugs and Pipe Tape.

Nomenclature



100P: 3/8" Glass Reinforced Polypropylene Pump (GFRPP).

T: PTFE Diaphragms & Check Valves.

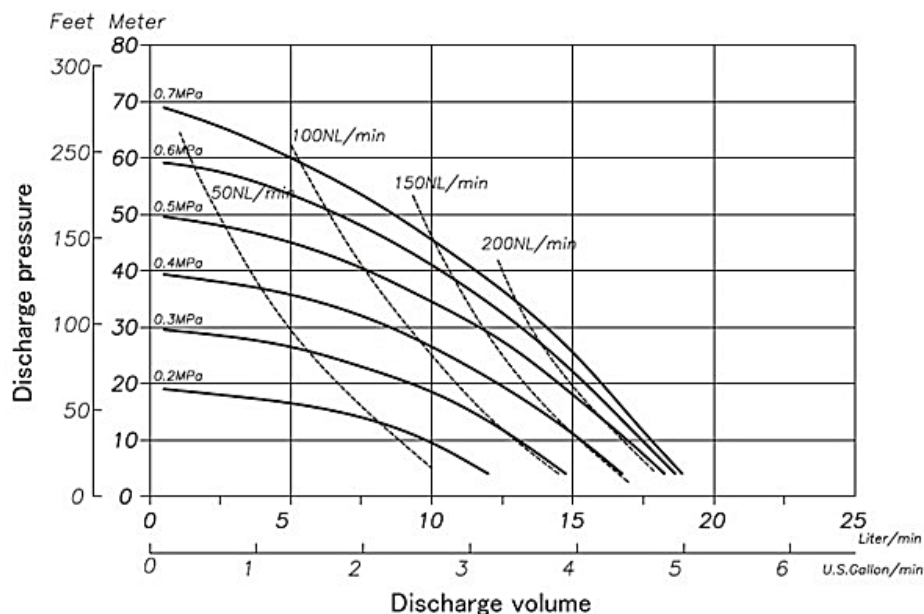
NPT: Optional 3/8" NPT Threaded Liquid Connections.



D100PT-NPT

GFRPP Pump with optional
NPT Centre Ports.

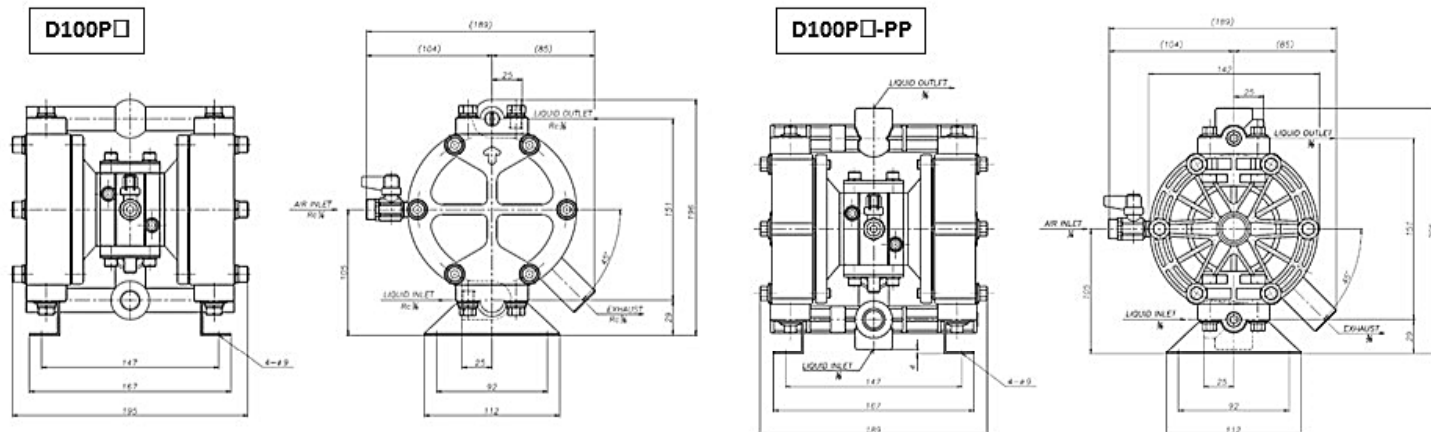
Pump Performance Curves



Wetted Materials Of Construction

MODEL	100PC	100PN	100PT	100PH	100PS	100PH-T	100PC-PP	100PN-PP	100PT-PP	100PH-PP	100PS-PP
Pump Wetted Parts	PPG						PP				
Diaphragm	CR	NBR	PTFE	TPEE	TPO	TPEE	CR	NBR	PTFE	TPEE	TPO
Valve Stopper	PPG						PP				
Ball Valve	CR	NBR	PTFE	NBR	EPDM	PTFE	CR	NBR	PTFE	NBR	EPDM
Valve Seat	CR	NBR	PPG				PP				
Center Disk	PPG						PP				
Weight	3.0kg [6.6 lbs]						3.0kg [6.6 lbs]				

Dimensional Drawings



YTS®

AODD Pump Capabilities.

- | | | |
|----------------------|-------------------------------|--------------------------------|
| Self Priming. | Variable Discharge Pressures. | Inherently Safe Design. |
| Run Dry. | Transfer Liquid Slurries. | Portable & Easy to Use. |
| Run up to Dead Head. | Transfer Large Sized Solids. | Transfer Viscous Fluids. |
| Variable Flow Rates. | Handle Abrasives. | Frequent Start Stop Operation. |
| Shear Sensitivity. | Transfer Chemicals. | Powered by Compressed Air. |

For more information about YTS Pumps please contact: sales@yts-pump.com

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