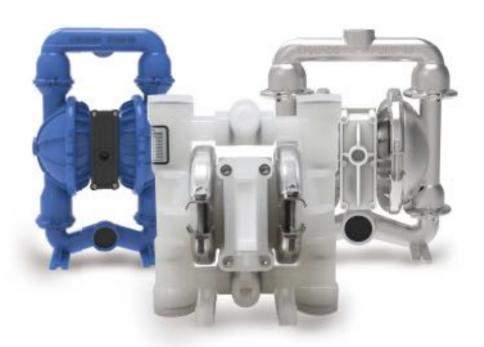


Fluid Supply







Fluid Supply diaphragm pump is a positive displacement pump that uses a combination of the reciprocating action of a diaphragm together with suitable valves on either side of the diaphragm in order to pump liquid. There are two diaphragms connected with each other by a shaft working in a separate chamber along with two sets of inlet valve balls and outlet valve balls. The diaphragm will separates the pumping action (liquid chamber) and air supply action (air chamber) individually. The reciprocating action will be powered by the air valve function which is shifting the air into either side of the air chamber systematically.

Thus, the pumping action is generated when air pushes into separate chamber acting on the diaphragm one after another. The pair of inlet and outlet valves will complete the pumping action with designated path direction.

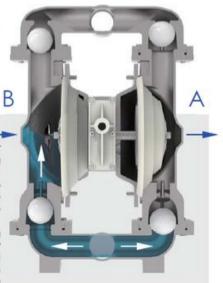
NOTE: The diaphragm's lifespan will be extended because of the air acting evenly onto the diaphragm instead of high mechanical stress on shaft connector area if it depends on the shaft to create the reciprocating action.

Figure 1:

The air system is directing the compressed air into the right air chamber, which pushes the diaphragm A into compressing action in the liquid chamber. This is called the discharge stroke. At the same time, the shaft connected will pull the diaphragm B to become the suction stroke, and the air supplied earlier in the air chamber will be discharged into the atmosphere from the discharge port of the pump.

When the liquid chamber at the diaphragm B open wider along with the valve blocking the outlet, this creates a vacuum or low pressure situation which allows the fluid being push into the said chamber by the higher atmospheric pressure via the suction port. The inlet and outlet valve works in opposite way of opening or closing in order to complete each and every stroking action simultaneously.

Working Principle



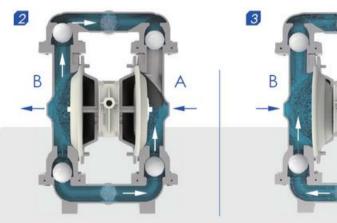


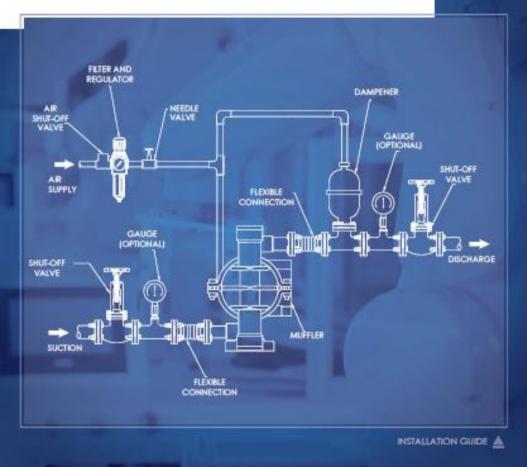
Figure 2 and Figure 3: When the pressurised diaphragm A reaches its maximum stroke limit, the air valve will be reacting by shifting the supply of compressed air into the opposite side, which is the air chamber of the diaphragm B.

Thus, the same action will be repeated as per Figure 1 but in the opposite chamber.

When the diaphragm B is in the discharge stroke, the in let and outlet valve is being pushed away by the compressed liquid chamber. The opening and closing of these 2 valve balls will be making the discharge action possible whenever the diaphragm was pressurised by the air supply.

NOTE: The 4 valve balls will be supported by each valve seat individually to have a complete sealing capability whenever the valve ball is in the closing action.

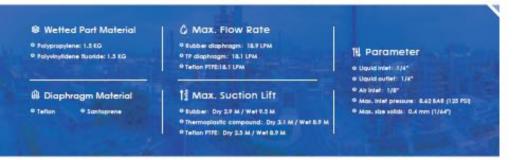


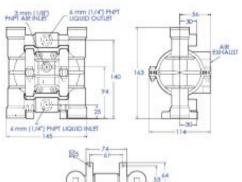




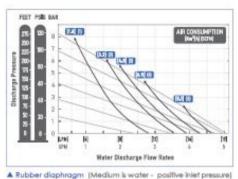


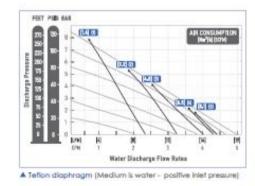
▶GT06 PLASTIC PUMP





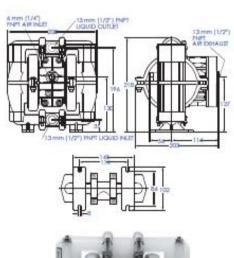




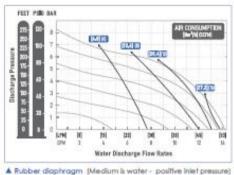


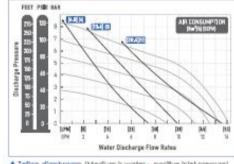
▶GT15 PLASTIC PUMP









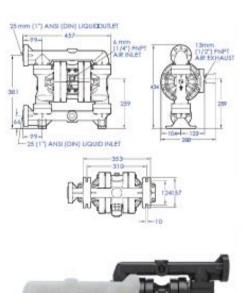


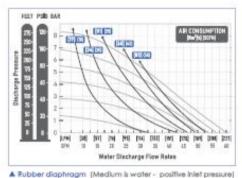
▲ Teflon diaphragm (Medium is water - positive inlet pressure)

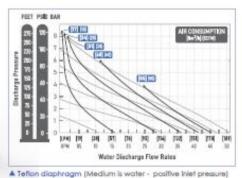


▶ GT200 PLASTIC PUMP



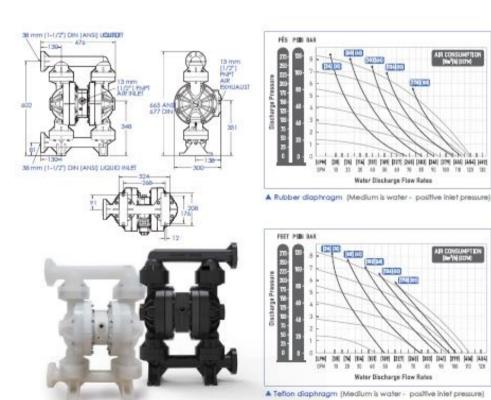






▶ GT400 PLASTIC PUMP





▶ GT500 PLASTIC PUMP



- · Felymopylene: 32 KG (ATEX Option)
- Polychyticene Sociale: 45 KG IANE Collect
- **& Diaphragm Material**
- .

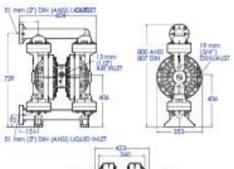
& VEG

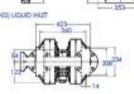
etter 0 sentage

- & Max. Flow Rate
- © Businer daphrogro- 425 IPM © 1P disphrogro- 615 IPM
- O Terres PERS STR LPM
- 13 Max. Suction Lift
- Passer by 425 M/Wers/M
- Therosphosto compound IF: Dry \$35 M / Wat 8.46
- & Teller PIPE- Day S. RS M / Well R.T. M.

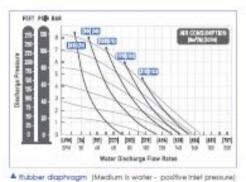
H Parameter

- O DEGLES MARKS 27
- O Liquid extent 2"
- O AND MALE TOT
- Q Main trief pressure: 8.42 BAR (132 PS)
- O Max. sign serious and man (U.S.)

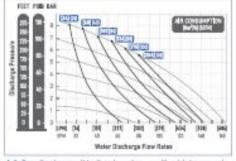










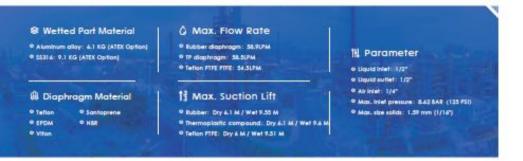


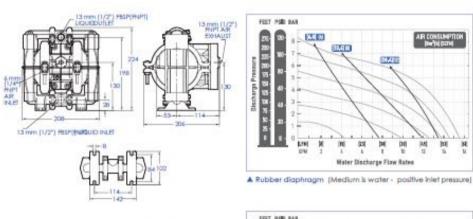
A Tefon diophragm (Medium is water - positive trial pressure)

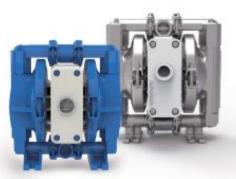


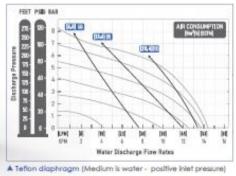


▶GT15 METAL PUMP

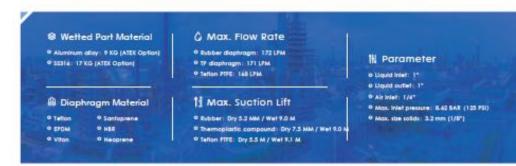


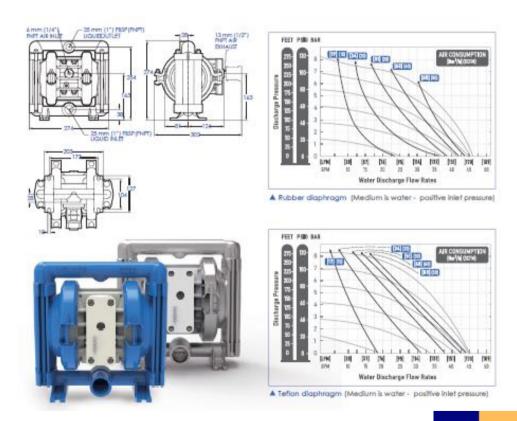






I► GT20 METAL PUMP

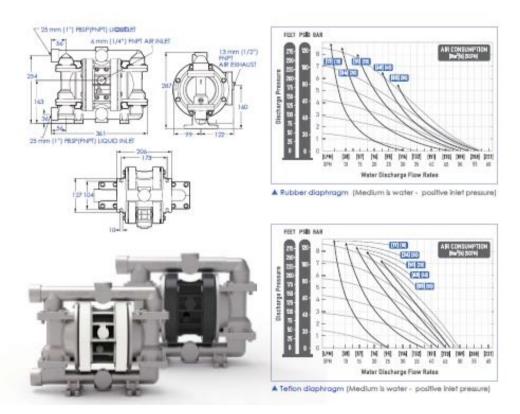




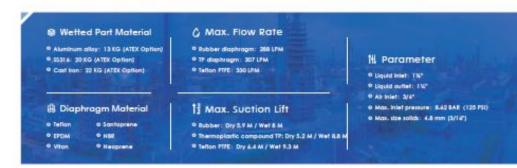


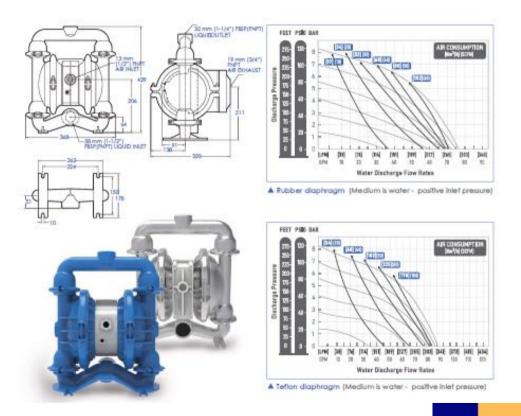
▶ GT200 METAL PUMP





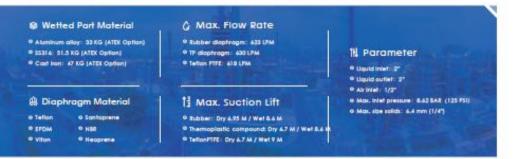
▶ GT40 METAL PUMP

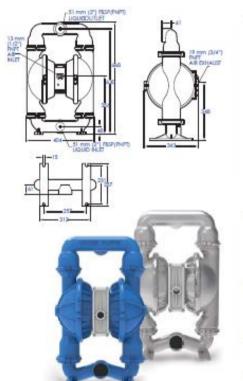


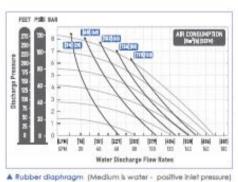


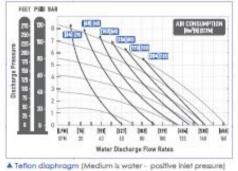


▶ GT50 METAL PUMP

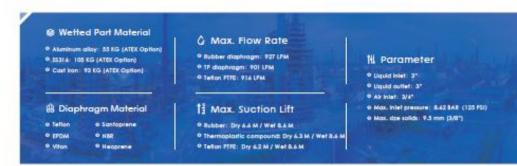


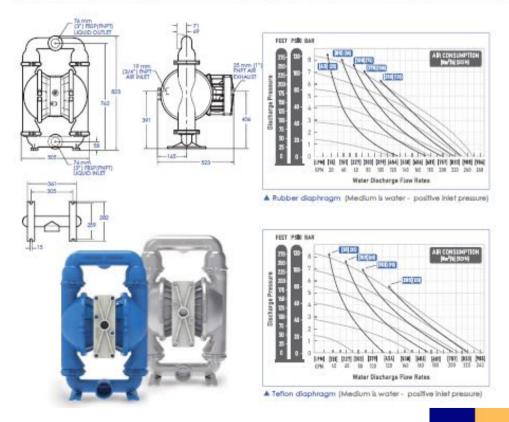






▶ GT80 METAL PUMP







▶ Hygienic Pump HS







FDA Pump











Model	HS GT20	HS GT40	HS GT50	HS GT80	FDA GT15	FDA GT20	FDA GT40	FDA GT50	FDA GT80
Material	3161	316L	316L	316L	316	316	316	316	316
Max. Flow Rate	Rubber diaphragm: 142LPM IP diaphragm: 152LPM fellon PIPE diaphragm: 149LPM	Rubber daphragm: 364LPM IP daphragm: 367LPM Tellan PIFE daphragm: 340LPM	Rubber diaphragm: 577LPM TP diaphragm: 586LPM Teffon PTPE diaphragm: 555LPM	Rubber daphragm: 890,PM IP daphragm: 840,PM 1effon PIFE daphragm: 796,PM	Rubber diaphragm: 57.7LPM TP diaphragm: 57.3LPM Tellon PTIT diaphragm: 53.5LPW	Rubber diaphragm: 149LPM 7P diaphragm: 171LPM Tellon PTTE diaphragm: 144LPM	Rubber disphragm: 267JPM 17 disphragm: 306JPM 1effon PTTE disphragm: 294JPM	Rubber diaphragm: APBLPM 17 diaphragm: 7191PM Selon PTSC 721LPM	Rubber diophragm: 936LPM 19 diophragm: 931LPM Sellon PTFE: 915LPW
Suction Lift	Rubber Dry 5.3M Wet Stat Thermoplastic composit Dry 7.6M Wet: Stat Tellon FITE: Dry 4.7M Wet. 9.1M	Rubber Dry 5,9W Wet BW Themopizatic composit Dry 5,3W Web BW Tellon FITE: Dry 6,4W Web 9,3W	Pubber Dryc & 93As Wet E.AM Thermoplastic composite: Dryc & 7M Wet E.AM Tellon PTE: Dryc & TM Wet SM	Rubber Dry 6-644 Web II July Themopicalicomposite Dry 6-344 Web II July Tellon PITE Dry 6-354 Web II July Web II July	Rubber: Dry. 5.9M. Web 9.55M. Thermoplastic compastie: Dry. 5.9M. Web P.AM. Telson PTE: Dry. 4.9M. Web: 9.51M.	Rubber Dry 5.2M. Wat 9.2M. Thermoplastic compaste: Ory 7.5M. Wat 9.2M. Tellon PTFE: Ory 5.5M. Wat 9.1M.	Rubber Dyr 59W Het BW Themoplatic composite: Dyr 53W Wet BBW Tellon PTE: Dyr 64W Wet 93W	Rubber Dry 4,95M Wet 8,4M Thermoplastic composite: Dry 4,7M Wet 8,4M Teffon PTRIC Dry 4,7M Web RM	Wet 0.6
Parameter	Uquid Inlet: 25mm(17)RF-CLAMP Uquid discharge: 25mm(17)RF-CLAMP Alt Inlet: 15mm(1727) Max. discharge pressure: 8.628AR (125P31) Max. 32e solids: 6.4mm(1747) Frishling: Surface Finish: Ro 0.8 µm	Liquid Invet: \$8mm(1-1/27)TR-CLAMP Liquid discharge: \$8mm(1-1/27)TR-CLAMP Air Invet: 19mm(3/47) Max. discharge pressure: 6.628AR (125PSI) Max. size solids: MushroomValve: 6.4mm Sall Valve: 12.7mm Hinbling: Surface Finith: Ra 0.8 µm	Uguid Iniet 51mm(7)1RHCLAMP Uguid discharge: 51mm(7)1RHCLAMP Alt Iniet 19mm(3/4') Max. discharge pressure: 8.626AR (125PS) Max. site solids: MushroomYalve: 6.4mm Ball Valve: 12.7mm Finishing: Surface Finish: Ra 0.8 µm	Uquid Intel: 76mm(3*)TRI-CLAMP Uquid discharge: 76mm(3*)TRI-CLAMP Air Intel: 19mm(3/4*) Max. discharge pressure: 6.425AR (125PSI) Max. size solids: MushroomValve: 7.5mm 8all Valve: 19mm Flop Valve(compressible solids) 60.3 mm (2-3/8) Finishing: Surface Finish: Ro 0.8 µm	Uguid Infet: 25mm(17)RH-CLAMF Uguid discharge: 25mm(17)RH-CLAMF Alt Friet: 4mm(1747) Max. discharge presure: 8.428AR (125PSI) Max. 92e solich: 1.39mm(17147) Friibring: Surface Finish: Ra 5.1 µm	Liquid Intel: 38mm(1-1/2*)RF-CLAMF Liquid discharge: 38mm(1-1/2*)RF-CLAMF Air Intel: 6mm(1/4*) Mox. discharge pressure: 8.625AR (125PSI) Mox. size solids: 3.2mm Pleasing: Surface Finish: Ro 3.1 µm	Liquid Inlet: 51mm(2*)189-CLAMP Liquid discharge: 51mm(2*)189-CLAMP Air Inlet: 13mm(1/2*) Max. discharge pressure: 8.425AR (125PSI) Max. size solds: 4.8mm(3/14*) Protring: Surface Finite: Ra 5.1 µm	Liquid Inlet: 64mm(2-1/2")TRI-CLAMP Liquid discharge: 64mm(2-1/2")TRI-CLAMP Air Inlet: 19.05mm(3/4") Max, discharge pressure: 8.428AR (125PSI) Max, size salida: 6.4mm(1/4") Phishing: Surface Phishs Ra 5.1 µm	Liquid inlet: 76mm(5')TRI-CLAMP Liquid discharge: 76mm(3')TRI-CLAMP Air Inlet: 19mm(3/4') Max. discharge pressure: 8.428AR (125PSI) Max. size solids: 9.5mm(5/8') Pristring: Surface Finish: Ra 5.1 µm

