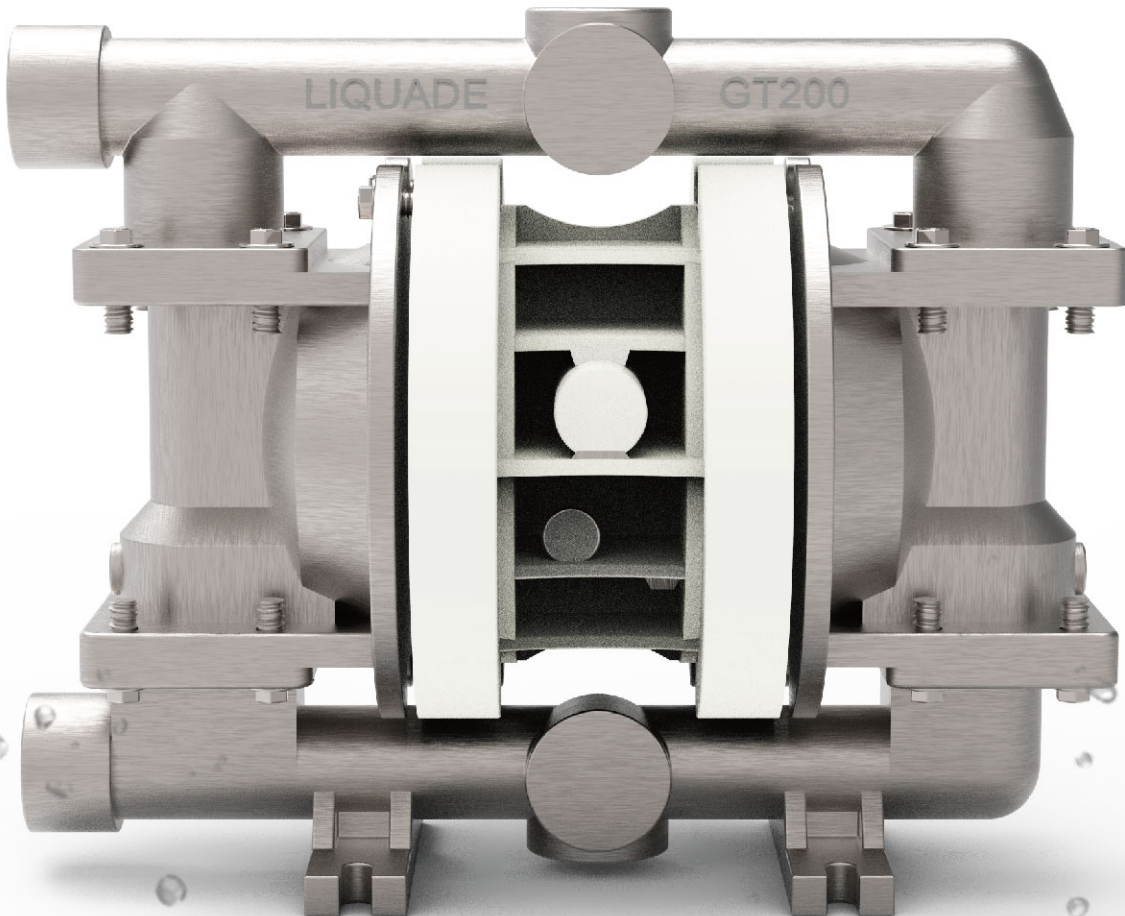


LIQUADE®

EOM

Engineering Operation
& Maintenance



GT200
Metal Pumps



CONTENTS

SECTION 1 CAUTIONS

SECTION 2 PUMP DESIGNATION SYSTEM

SECTION 3 DIMENSIONAL DRAWING

SECTION 4 PERFORMANCE CURVES

GT200 Metal Rubber-Fitted

GT200 Metal TP-Fitted

GT200 Metal PTFE-Fitted

Suction Lift Curves

SECTION 5 SUGGESTED INSTALLATION

SECTION 6 TROUBLESHOOTING

SECTION 7 DISASSEMBLY / REASSEMBLY

Pump Disassembly

Air Valve / Cleaning & Inspection

Reassembly Hints & Tips

SECTION 8 EXPLODED VIEW & PARTS LISTING

GT200 Metal Exploded View

GT200 Metal Parts Listing

SECTION 9 ELASTOMER OPTIONS

**TEMPERATURE LIMITS:**

Material	Temperature Limit (Celsius)	Temperature Limit (Fahrenheit)
Polypropylene	0°C to 79°C	+32°F to 175°F
PVDF	-12°C to 107°C	+10°F to 225°F
Neoprene	-17°C to 93.3°C	0°F to 200°F
Buna	-12°C to 82°C	10°F to 180°F
VITON	-40°C to 176.7°C	-40°F to 350°F
EPDM	-51°C to 137.8°C	-60°F to 280°F
PTFE	-4°C to 107°C	+24.8°F to 175°F
Santoprene	-40°C to 107.2°C	-40°F to +225°F

CAUTIONS:

All wetted components have temperature limit, this must be taken in to consideration when selecting pump materials. For example: PTFE has a maximum limit of 104.4°C (220°F) but Polypropylene has a maximum limit of only 79°C (175°F).

- Maximum temperature limits are based upon mechanical stress only. Certain chemicals will significantly reduce maximum safe operating temperatures. Refer to engineering guide for chemical compatibility and temperature limits.

Diaphragm rupture might happen during pumping operation, this will result in the liquid being pumped to be force out of the air exhaust muffler. Therefore, it is important to wear safety glasses throughout the operation.

- Do not exceed 8.62 bar (125 psig) air supply pressure.
- Detach the compressed air line from the pump before carry out maintenance and repair as this helps to release all air pressure from the pump and follow by disconnect all suction, discharge and air line. Drain the pump by turning it upside down and allowing any fluids to flow into a suitable container.
- Blow out the air line for 10 to 20 seconds before connecting to pump to ensure all pipe lines are free from particles. Use an in-line air filter. A 5µ (micron) air filter is recommended.
- Check the chemical compatibility of the process and cleaning fluid to the material of the pump's component in the Chemical Resistance Guide.
- The GT200 pump is not submersible.

WARNING:

- Prevention of static sparking – Fire or explosion might take place if static sparking occurs. Thus, it is important to ground all pump, valves and containers when dealing with ignitable liquids and whenever discharge of static electricity is a hazard.

NOTES:

- Before starting disassembly, mark a line from each liquid chamber to its corresponding air chamber. This line will assist in proper alignment during reassembly.
- Fitting may loosen during transportation, it is always important to tighten the clamp bands and retainers before installation.
- When installing PTFE diaphragms, it is important to tighten piston outer simultaneously (turning in opposite directions) to ensure tight fit.

SECTION 2

GT200 METAL PUMP DESIGNATION SYSTEM

LIQUADE Pump Model Description Chart:

<i>GT200</i>	<i>S</i>	<i>P</i>	<i>P</i>	<i>T</i>	<i>T</i>	<i>P</i>	<i>XXX</i>
Model	Housing	Center Body	Air Valve	Diaphragms	Valve Ball	Valve Seat	Specialty

GT: Air-operated diaphragm pump, GT-Series

Model: Port size, 25mm (1")

Housing material:

S=STAINLESS

Center Body material:

P=POLYPROPYLENE

CP=CONDUCTIVE POLYPROPYLENE

Air Valve material:

P=POLYPROPYLENE

CP=CONDUCTIVE POLYPROPYLENE

Diaphragm material:

T=PTFE

N=Neoprene

W=SANTOPRENE

B=BUNA

V=VITON

E=EPDM

Valve Ball material:

T=PTFE

N=Neoprene

W=SANTOPRENE

BN=BUNA

V=VITON

E=EPDM

Valve Seat material:

S=STAINLESS STEEL

SPECIALTY :

CH=PTFE coated hardware

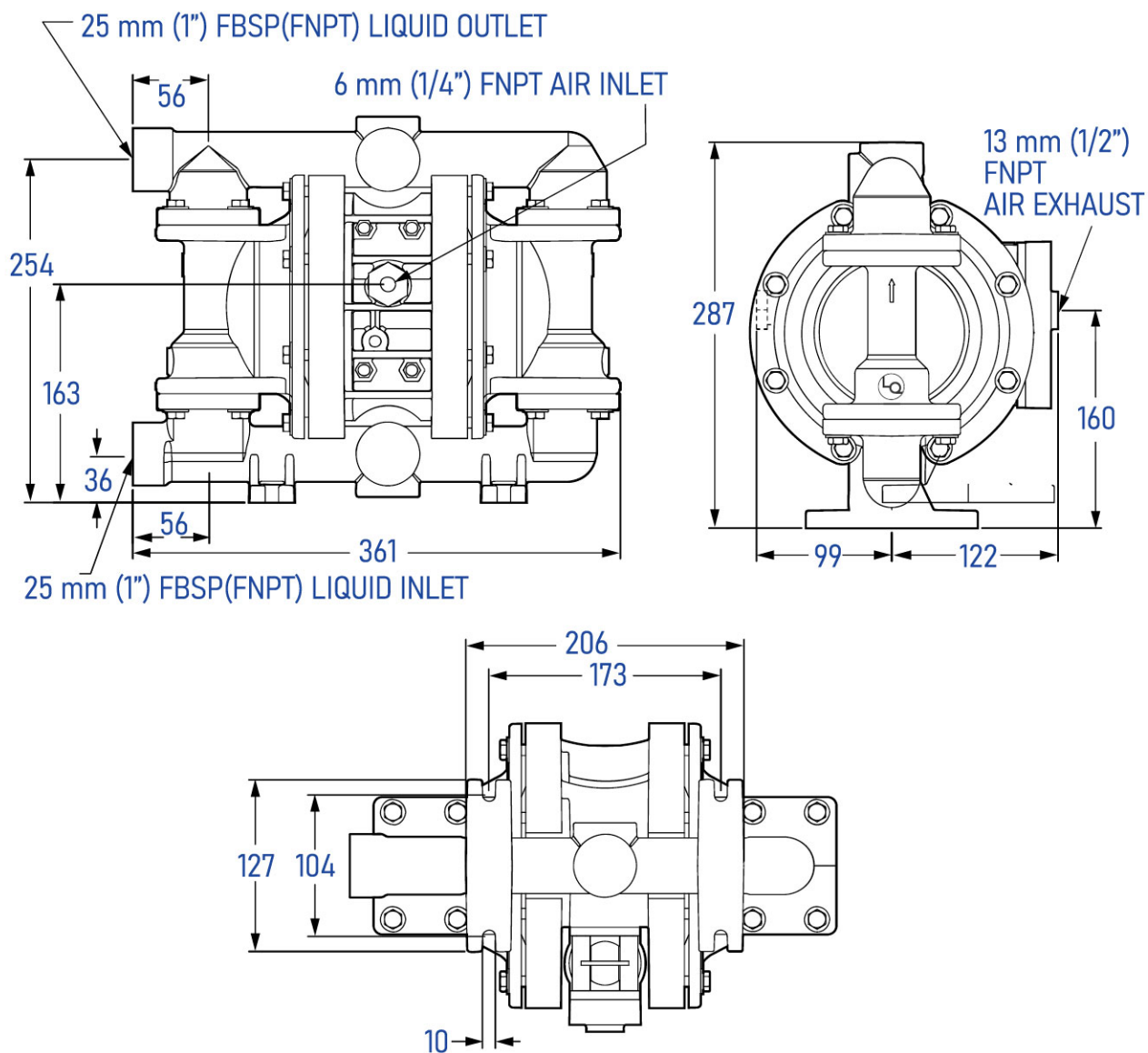
AT=ATEX certificate

AF=ANSI flange

DF=Din flange

BT=BSPT thread

NT=NPT thread



GT200 METAL RUBBER -FITTED

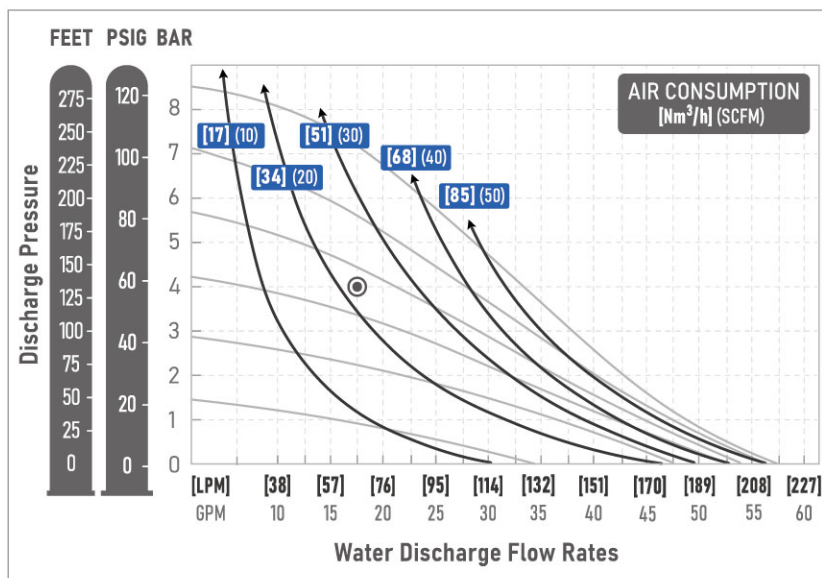
Height -----	343 mm (17.1")
Width -----	378 mm (18")
Depth -----	230 mm (9.1")
Est. Ship Weight ----	Stainless 23 kg (51 lbs)
Air Inlet -----	6 mm (1/4")
Inlet -----	25.4 mm (1/4")
Outlet -----	25.4 mm (1/4")
Suction Lift -----	5.4 m Dry (17.6')
	9.3 m Wet (30.6')

Displacement Per Stroke ----- 0.3 l (0.08 gal)
Max. Flow Rate ----- 212 lpm (56 gpm)
Max. Size Solids ----- 6.4 mm (3/16")

Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2 bar (30 psig) head pressure.

Example: To pump 67 lpm (20 gpm) against a discharge pressure head of 4 bar (60 psig) requires 5.5 bar (80 psig) and 42 Nm³/h (25 scfm) air consumption. (See dot on chart.)

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were based on pumping water.
For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

GT200 METAL TP -FITTED

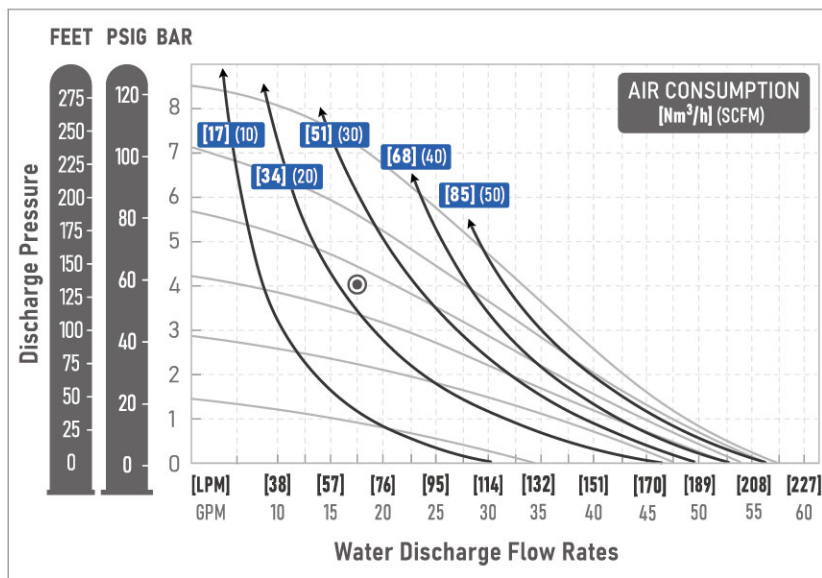
Height -----	343 mm (17.1")
Width -----	378 mm (18")
Depth -----	230 mm (9.1")
Est. Ship Weight ----	Stainless 23 kg (51 lbs)
Air Inlet -----	6 mm (1/4")
Inlet -----	25.4mm (1/4")
Outlet -----	25.4mm (1/4")
Suction Lift -----	5.4 m Dry (17.6')
	9.3 m Wet (30.6')

Displacement Per Stroke ----- 0.3 l (0.08 gal)
Max. Flow Rate ----- 212 lpm (56 gpm)
Max. Size Solids ----- 6.4 mm (3/16")

Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2 bar (30 psig) head pressure.

Example: To pump 67 lpm (20 gpm) against a discharge pressure head of 4 bar (60 psig) requires 5.5 bar (80 psig) and 42 Nm³/h (25 scfm) air consumption. (See dot on chart.)

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.



Flow rates indicated on chart were based on pumping water.
For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

GT200 METAL PTFE-FITTED

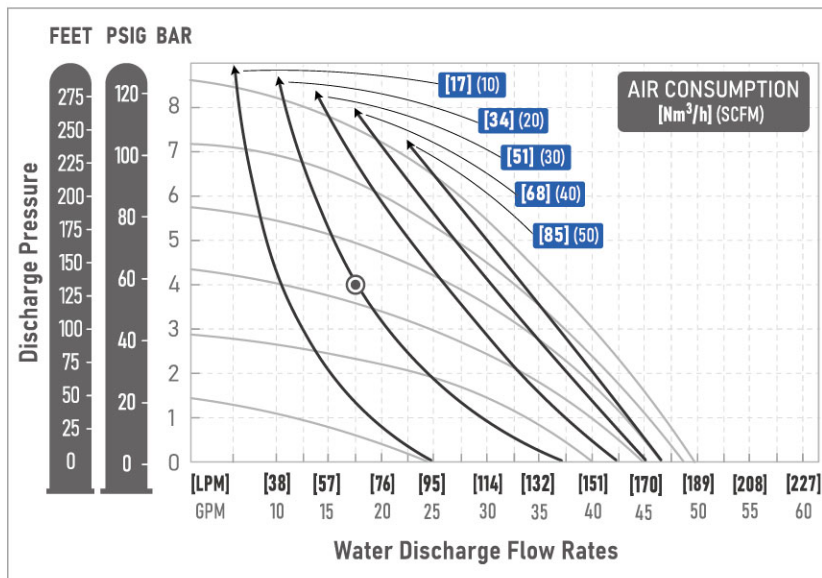
Height ----- 343 mm (17.1")
 Width ----- 378 mm (18")
 Depth ----- 230 mm (9.1")
 Est. Ship Weight ---- Stainless 23 kg (51 lbs)
 Air Inlet ----- 6 mm (1/4")
 Inlet ----- 25.4 mm (1/4")
 Outlet ----- 25.4 mm (1/4")
 Suction Lift ----- 3.5 m Dry (11.4')
 9.3 m Wet (30.6')

Displacement Per Stroke
 ----- 0.23 l (0.06 gal)
 Max. Flow Rate ----- 185 lpm (48.87 gpm)
 Max. Size Solids ----- 6.4 mm (3/16")

Displacement per stroke was calculated at 4.8 bar (70 psig) air inlet pressure against a 2 bar (30 psig) head pressure.

Example: To pump 67 lpm (20 gpm) against a discharge pressure head of 4 bar (60 psig) requires 5 bar (70 psig) and 34 Nm³/h (20 scfm) air consumption. (See dot on chart.)

Caution: Do not exceed 8.6 bar (125 psig) air supply pressure.

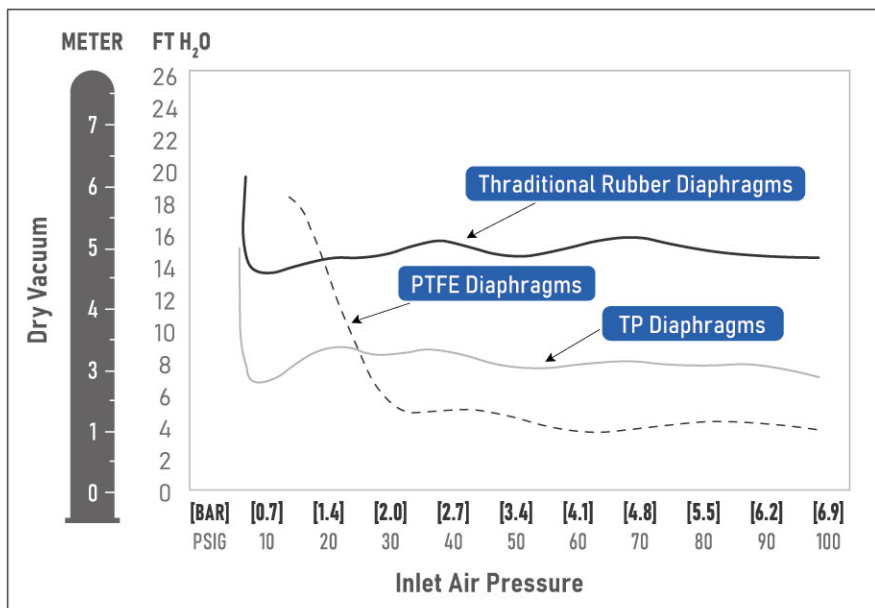


Flow rates indicated on chart were based on pumping water. For optimum life and performance, pumps should be specified so that daily operation parameters will fall in the center of the pump performance curve.

SUCTION LIFT CURVES

GT200 METAL SUCTION-LIFT CAPABILITY

Suction lift curves are calibrated for pumps operating at 305 m (1,000') above sea level. This chart is meant to be a guide only. There are many variables which can affect your pump's operating characteristics. The number of intake and discharge elbows, viscosity of pumping fluid, elevation (atmospheric pressure) and pipe friction loss all affect the amount of suction lift your pump will attain.



SECTION 5

The model GT200 Metal has a 25 mm (1") inlet and 25 mm (1") outlet and is designed for flows to 212 lpm (56 gpm). The GT200 Metal pump has only wetted parts with 316 stainless steel. The common center section of the GT200 Metal is constructed of virgin polypropylene. We also provide metal and conductive polypropylene materials (consult factory) to better service different requirements. A variety of diaphragms and o-rings are available to satisfy temperature, chemical compatibility, abrasion resistant and flex life.

The suction pipe size should be at least 25 mm (1") diameter or larger if viscous liquid is being pumped. The suction hose must be non-collapsible, reinforced type as the GT200 is capable of pulling a high vacuum. Discharge piping should be at least 25 mm (1"); larger diameter in order to reduce friction losses. It is critical that all fittings and connections are air tight to avoid loss of pump suction capability.

INSTALLATION:

Premature failure and long term dissatisfaction can be avoided if reasonable care is carried out throughout the installation process.

LOCATION:

Factors such as noise, safety, and other logistical reasons normally dictate that "utility" equipment be situated away from the production floor. Multiple installations with conflicting requirements can result in congestion of utility areas, leaving few choices for siting of additional pumps. It is advisable every pump should be located in such a way that four key factors are balanced against each other to maximum advantage.

1.ACCESS:

Ensure that the pump locations are easily accessible in order to reduce the time used for the maintenance personnel carrying out routine inspections and adjustments. It helps to speed up the repair process and reduce total downtime especially should major repairs be required.

2.AIR SUPPLY:

To achieve a desired pumping rate, it is important to have an air line large enough to supply the required air volume to every pump location. (Refer to pump performance chart). Use air pressure up to a maximum of 8.6 bar (125 psig) depending on pumping requirements.

3.ELEVATION:

In order to eliminate loss-of-prime problems and not to affect pump efficiency, it is advisable to select a site location that is well within the dynamic lift capability of the pump.

SUGGESTED INSTALLATION

4.PIPING:

It is necessary to evaluate the piping problems of every possible piping location before the final selection of pump site location.

A site with a shortest and straightest hook-up of suction and discharging piping would be the best option when choosing a pump site. Ensure to avoid unnecessary elbows, bends and fittings. It is also important to select pipe sizes to keep the friction losses within limits. All piping to be supported independently of the pumps and piping must be aligned to reduce pump fitting placing problems.

Flexible hose can be installed to aid in absorbing the forces created by the natural pulsation of the pump. If the pump is to be bolted down to a solid location, a mounting pad placed between the pump and the foundation will assist to minimize pump vibration. Flexible connections between the pump and rigid piping will also assist in minimizing pump vibration. If quick-closing valves are installed at any point in the discharge system, or if pulsation within a system becomes a problem, a Liquade LD1" Dampener should be installed to protect the pump, piping and gauges from surges and water hammer.

When pumps are installed in applications involving flooded suction or suction head pressures, a gate valve should be installed in the suction line to allow closing of the line for pump service.

The GT200 cannot be used in submersible applications.

For self-priming application, make sure that all connections are air tight and the suction lift is within the model's ability. Note: Materials of construction as well as elastomer material have an effect on suction lift parameters. Please consult Liquade distributors for specifics.

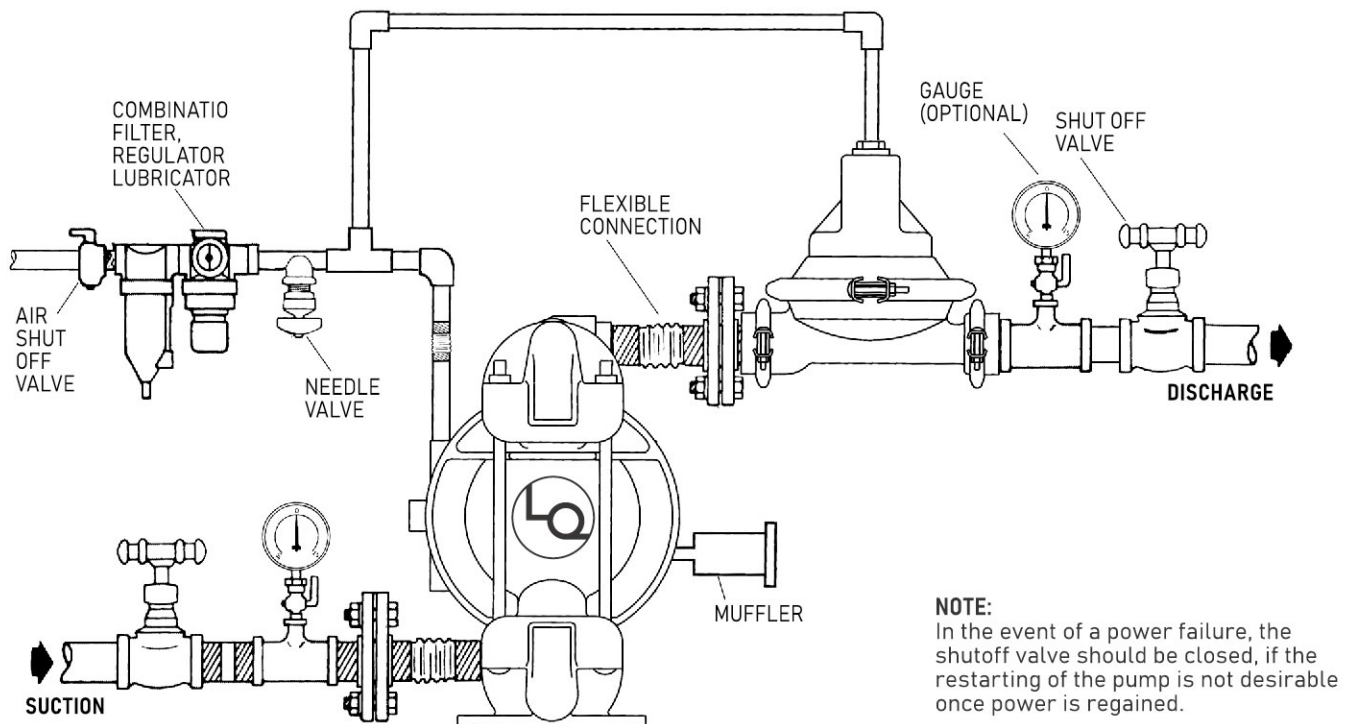
Pumps in service with a positive suction head are most efficient when inlet pressure is limited to 0.4–0.7 bar (7–10 psig). If the positive suction is 0.7 bar (10 psig) or higher, it may cause premature diaphragm failure.

THE MODEL GT200 WILL PASS 4.7 MM (1/4") SOLID. A STRAINER SHOULD BE USED ON THE SUCTION LINE TO AVOID LARGER SOLID OBJECTS SUCKED INTO THE PUMP.

CAUTION: DO NOT EXCEED 8.6 BAR (125 PSIG) AIR SUPPLY PRESSURE.

BLOW OUT AIR LINE FOR 10 TO 20 SECONDS BEFORE ATTACHING TO PUMP TO MAKE SURE ALL PIPE LINE DEBRIS IS CLEAR.

▲ The GT pump is not submersible



AIR-OPERATED PUMPS:

To stop the pump from operating in an emergency situation, simply close the "shut-off" valve (user supplied) installed in the air supply line. A properly functioning valve will stop the air supply to the pump, therefore stopping output. This shut-off valve should be located far enough away from the pumping equipment such that it can be reached safely in an emergency situation.

Pump does not run or runs slowly.

1. Ensure that the air inlet pressure is at least 5 psig above startup pressure and that the differential pressure (the difference between inlet and discharge pressure) to be more than 10 psig.
2. Check air inlet filter for particles (see recommended installation).
3. Check if there is extreme air leakage which would indicate worn out seals/bores.
4. Dismantle pump to inspect for obstructions in the air passageways or objects which would hinder the movement of internal parts.
5. Check for sticking valve ball. Swelling may occur if pumping liquid is not compatible with pump elastomers. Replace valve ball and seals with proper elastomers. Also, as valve balls wear out, they become smaller and can become stuck in the seats. In this case, replace both balls and seats.

Pump air valve freezes.

1. Check for excessive moisture in compressed air. Either install a dryer or hot air generator for compressed air. Alternatively, a coalescing filter may be used to remove the water from the compressed air in some applications.

Pump rattles.

1. Create false discharge head or suction lift.

Pump runs but little or no liquid flows

1. Check for pump cavitation; slow down the pump speed match the viscosity of the pumping liquid.
2. Verify the vacuum required to lift liquid is not greater than the vapor pressure of the material being pumped (cavitation).
3. Check for sticking valve ball. Swelling may occurs if pumping liquid is not compatible with pump elastomers. Replace valve ball and seals with proper elastomers. Also, as the valve balls wear out, they become smaller and can become stuck in the seats. In this case, replace both balls and seats.
4. Ensure all inlet connections are tight, especially on the lower valve ball retainers.

Air bubbles found in pump discharge.

1. Check for ruptured failures.
2. Check tightness of outer pistons.
3. Check tightness of clamp bands and integrity of o-rings and seals, especially at inlet manifold.
4. Ensure pipe connections are air tight

Liquid leakage from air exhaust. (Muffler)

1. Check for diaphragm rupture.
2. Check tightness of pistons to shaft.

SECTION 7

CAUTION: Before perform any maintenance or repair, disconnect the compressed air line to the pump to allow all air pressure to bleed from pump. Disconnect all inlet, discharge, and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container. Wet flushing of parts may be required prior to handling.

TOOLS REQUIRED:

- 13 mm (1/2") Wrench
- 2 – 25 mm (1") Sockets or Adjustable Wrench Vise equipped with soft jaws (such as plywood, plastic or other suitable material)

DISASSEMBLY / REASSEMBLY

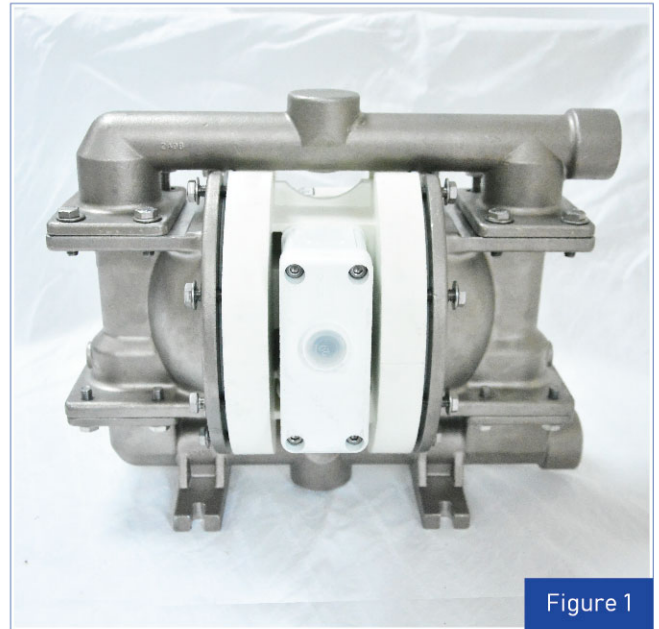


Figure 1

PUMP DISASSEMBLY:

Step 1.

Before carry out disassembly, drain all remaining fluid in the pump into a suitable container by turning it up-side down. Take extra caution if the liquid is corrosive or toxic.

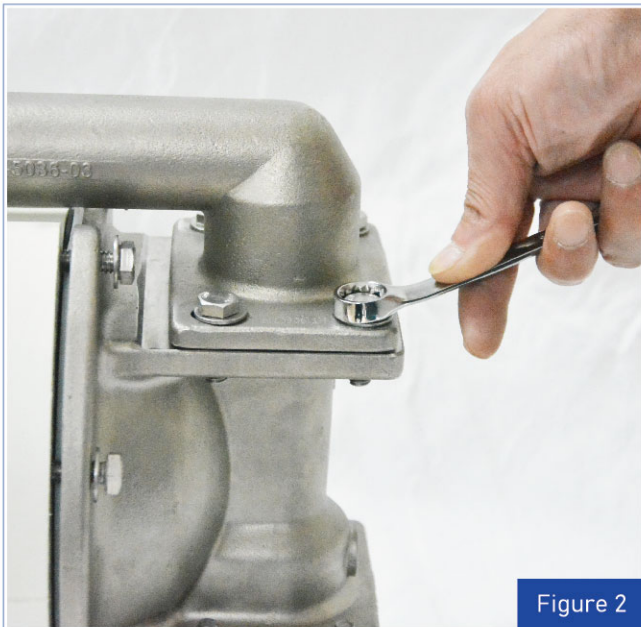


Figure 2

Step 2.

Using the 13 mm (1/2") box wrench, loosen the discharge manifold from the liquid chambers.



Figure 3

Step 3.

Inspect for nicks gouges, chemical attack or abrasive wear, Replace worn parts with genuine Liquade parts for reliable performance.

SECTION 7

DISASSEMBLY / REASSEMBLY

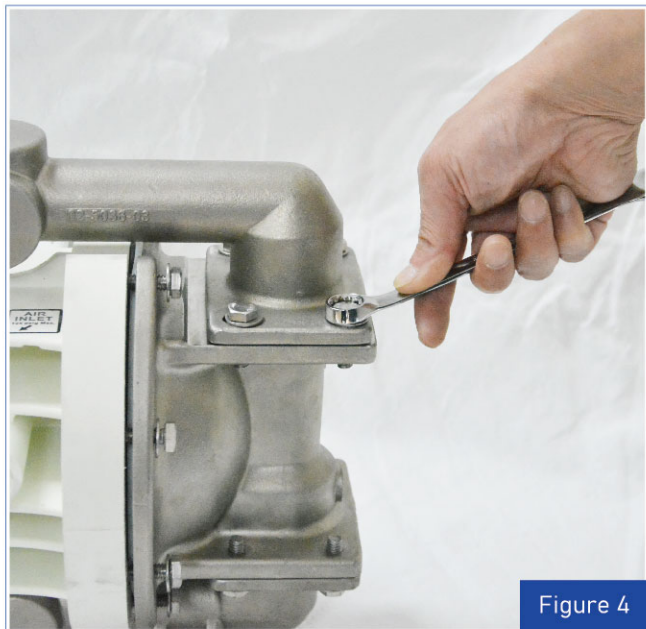


Figure 4

Step 4.

Using a 13 mm (1/2") box wrench, remove the inlet manifold.

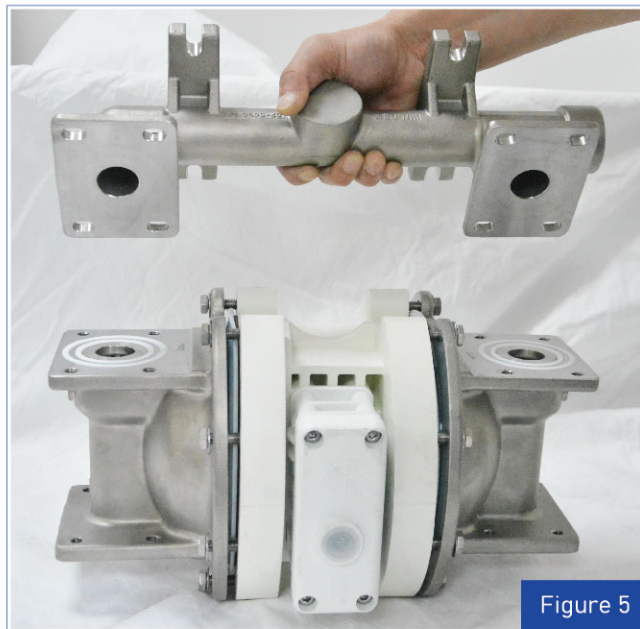


Figure 5

Step 5.

Inspect for nicks gouges, chemical attack or abrasive wear. Replace worn parts with genuine Liquade parts for reliable performance.

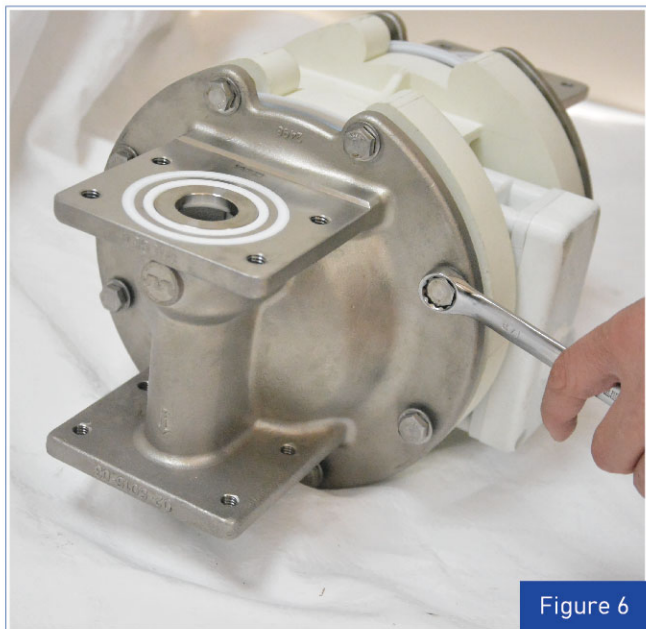


Figure 6

Step 6.

Remove the liquid chambers from the center section with a 13 mm (1/2") box wrench.

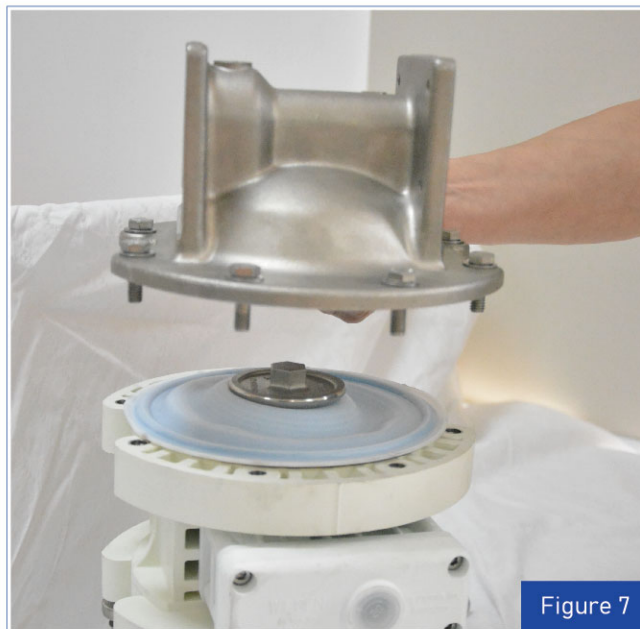


Figure 7

Step 7.

The liquid chamber should be removed to expose the diaphragm and outer piston. Rotate center section and remove the opposite liquid chamber.

SECTION 7

DISASSEMBLY / REASSEMBLY



Figure 8

Step 8.

Using two crescent wrenches or 25 mm (1") sockets, remove diaphragm assembly from center section assembly.



Figure 9

Step 9.

Loosening and removing the outer piston, then assembly can be disassembled.

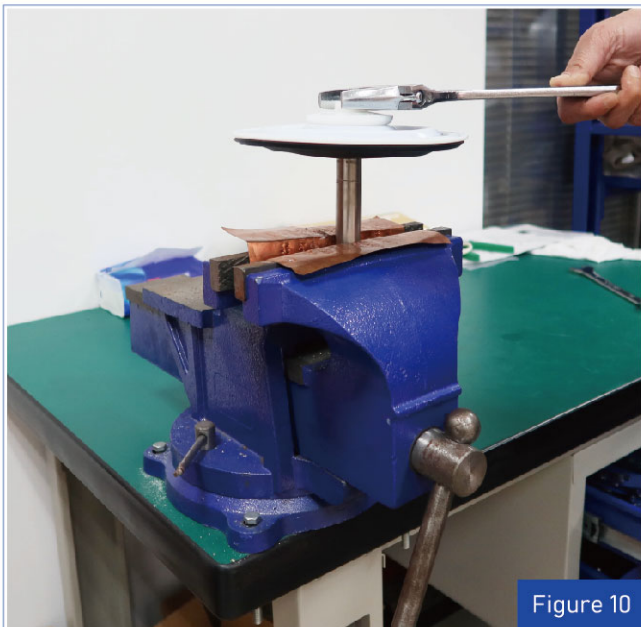


Figure 10

Step 10.

In order to remove the remaining diaphragm assembly from the shaft and secure shaft with soft jaws (a vise fitted with plywood or other suitable material) to ensure shaft is not nicked, scratched, or gouged. Using an adjustable wrench, remove diaphragm assembly from shaft. Inspect all parts for wear and replace with genuine Liquade parts for reliable performance.



Figure 11

Step 11.

Inspect diaphragms, outer and inner pistons for signs of wear. Replace with genuine parts for reliable performance.

SECTION 7

AIR VALVE / CLEANING & INSPECTION

AIR VALVE DISASSEMBLY:

CAUTION: Before perform any maintenance or repair, disconnect the compressed air line to the pump to allow all air pressure to bleed from pump. Disconnect all inlet, discharge, and air lines. Drain the pump by turning it upside down and allowing any fluid to flow into a suitable container. Be careful of dangerous effects of contact with the process fluid.

The Liquade Plastic GT200 metal utilizes an advance air distribution system. A 6 mm (1/4") air inlet connect the air supply to the center section. Composite seals reduce the coefficient of friction and allow the GT200 to run lube-free. Constructed of polypropylene, the air distribution system is designed to perform in on/off function, non-freezing, non-stalling and tough duty application.

TOOLS REQUIRED:

- 3/16" Allen Wrench
- Snap Ring Pliers
- O-Ring Pick

CAUTION:

Before carry out disassembly, drain all remaining fluid in the pump into a suitable container by turning it up-side down. Take extra caution if the liquid is corrosive or toxic.

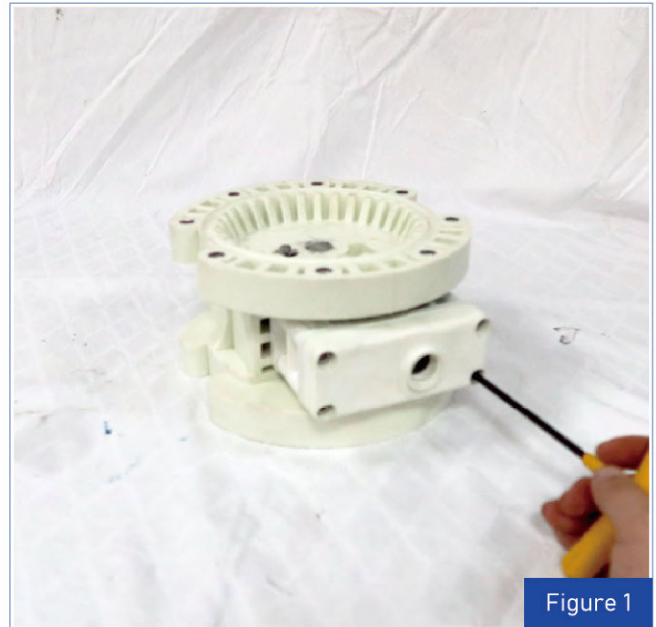


Figure 1

Step 1.

Loosen the air valve bolts utilizing a 3/16" Allen wrench.



Figure 2

Step 2.

Remove muffler plate and air valve bolts from air valve assembly exposing muffler gasket for inspection. Replace with Liquade gasket for reliable performance.

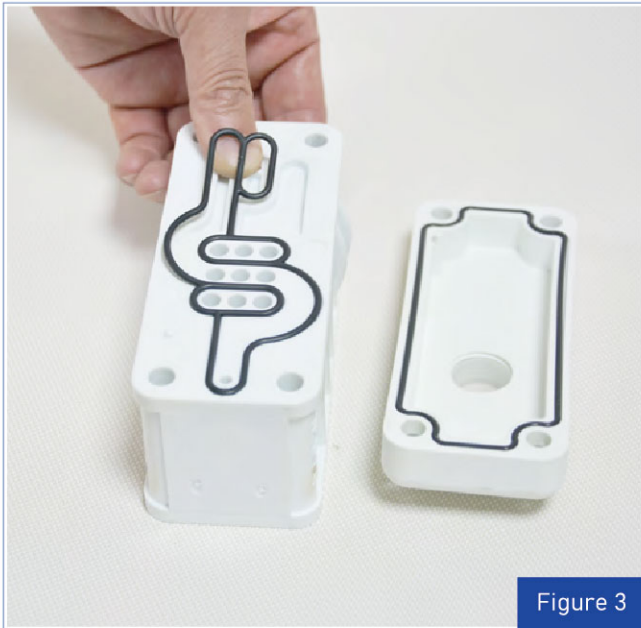


Figure 3

Step 3.

Lift away air valve and remove air valve gasket for inspection. Replace with Liquade gasket for reliable performance.



Figure 4

Step 4.

Remove the end cap to expose air valve spool by simply lifting up on end cap once air valve bolts are removed.



Figure 5

Step 5.

Remove air valve spool from air valve body by threading one air valve bolt into the end of the spool and gently sliding the spool out of the air valve body. Check the signs of the wear, replace the spool if necessary. The wear seals are not sold by separately.

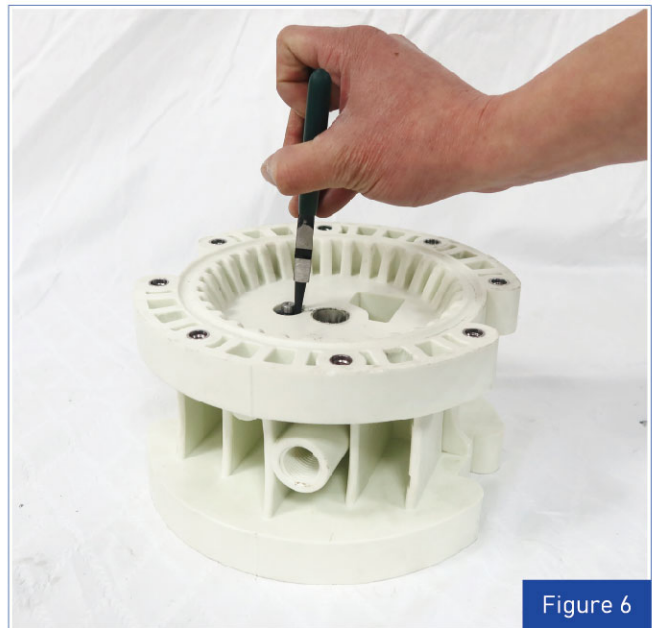


Figure 6

Step 6.

Remove pilot spool sleeve retaining snap ring on both sides of center section with snap ring pliers, and lift up pilot spool sleeve from center section.



Figure 7

Step 7.

Gently remove the o- ring with o-ring pick from the opposite side of the "center hole" cut on the spool. Check the signs of wear, Replace pilot sleeve assembly for reliable performance.



Figure 8

Step 8.

Check center section Glyd rings for signs of wear. Replace the Liquade Glyd rings for reliable performance.

Reassembly Hints & Tips

The following tips will assist in the assembly process.

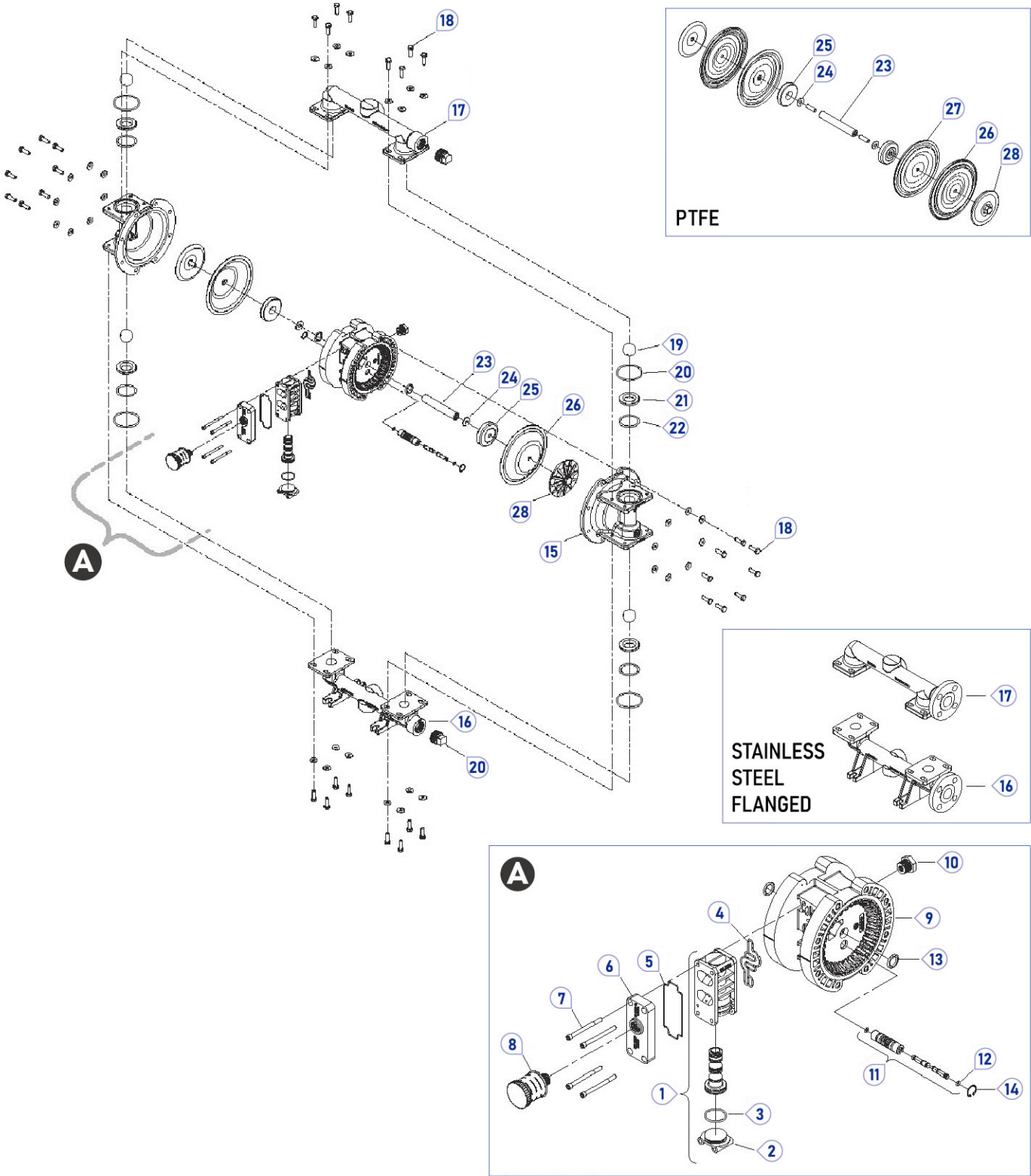
- ① For reassembly, please refer to disassemble process in reserve order.
- ② Clean the center section shaft before assembly, make sure no damage for the Glyd rings.
- ③ Lube all the stainless bolts before tightening.
- ④ Using proper torque values to tighten the outer piston, check these values below chart.
- ⑤ Apply two drops of Loctite® 246 to the shaft internal threads before the diaphragm assembly.

TORQUE SPECIFICATIONS FOR MODEL GT200 METAL PUMPS

Description of Part	Torque
Air Valve	3.1 N•m (27 in-lbs)
Outer Pistons, All Diaphragms	40.7 N•m (30 ft-lbs)
Top and Bottom Manifold	8.5 N•m (75 in-lbs)
Liquid Chamber to Center Section	8.5 N•m (75 in-lbs)

GT200 METAL

EXPLODED VIEW



SECTION 8

EXPLODED VIEW & PARTS LISTING

GT200 METAL

PARTS LISTING

Item #	Description	Qty Per Pump	GT200/SPP	GTX 200/SPP
Air Distribution Components				
1	GT Air Valve Assembly ¹	1	L01-2010-20	L01-2010-20C
2	End Cap	1	L01-2332-20	L01-2332-20C
3	End Cap O-ring	1	L01-2395-52	L01-2395-52
4	Air Valve Gasket	1	L01-2615-52	L01-2615-52
5	Muffler Plate Gasket	1	L01-3505-52	L01-3505-52
6	Muffler Plate	1	L01-3181-20	L01-3181-20C
7	Screw, SHC, 1/4"-20 x 3"	4	L01-6001-03	L01-6001-03
8	Muffler	1	L02-3510-99	L02-3510-99
9	Center Section	1	L02-3142-20	L02-3142-20C
10	Reducer Bushing	1	L01-6950-20	L01-6950-20
11	Removable Pilot Sleeve Assy.	1	L02-3880-99	L02-3880-99
12	Pilot Spool Retaining O-ring	2	L04-2650-49-700	L04-2650-49-700
13	Shaft Seal	2	L02-3210-55-225	L02-3210-55-225
14	Retaining Snap Ring	2	L00-2650-03	L00-2650-03
Wetted Path Components				
15	Liquid Chamber	2	L02-5015-03	L02-5015-03
16	Inlet Manifold, ANSI Flange	1	L02-5090-03	L02-5090-03
	Inlet Manifold, DIN Flange	1	L02-5091-03	L02-5091-03
	Inlet Manifold, Side Ported, 1" NPT	1	L02-5095-03	L02-5095-03
	Inlet Manifold, Side Ported, 1" BSPT	1	L02-5096-03	L02-5096-03
	Discharge Manifold, ANSI Flange	1	L02-5030-03	L02-5030-03
17	Discharge Manifold, DIN Flange	1	L02-5031-03	L02-5031-03
	Discharge Manifold, Side Ported, 1" NPT	1	L02-5035-03	L02-5035-03
	Discharge Manifold, Side Ported, 1" BSPT	1	L02-5036-03	L02-5036-03
	Screw, HHC, 5/16"-18 x 1"	32	L08-6180-03-42	L08-6180-03-42
Valve Balls / Valve Seats / Valve O-rings / Manifold O-Ring				
19	Valve Ball	4	*	*
20	Manifold O-ring	4	*	*
21	Valve Seat	4	L02-1125-03	L02-1125-03
22	Valve Seat O-ring	4	*	*
PTFE / Rubber / TP / Components				
23	Shaft	1	L02-3810-03	L02-3810-03
24	Disc Spring	2	L02-6802-08	L02-6802-08
25	Inner Piston	2	L02-3701-01	L02-3701-01
26	Diaphragm	2	*	*
27	Diaphragm, Back up	2	*	*
28	Outer Piston	2	L02-4550-03	L02-4550-03

*Refer to Elastomer Options in Section 9.

¹ Air Valve Assembly includes items 2, 3.

GT200 METAL

Material	Diaphragms	Back-Up Diaphragm	Valve Ball	Manifold O-Ring	Valve Seat O-Ring
Neoprene	L02-1010-51	-	L02-1085-51	L70-1280-52	L02-1205-52
Buna	L02-1010-52	-	L02-1085-52	L70-1280-52	L02-1205-52
Viton	L02-1010-53	-	L02-1085-53	L02-1372-53	L02-1205-53
EPDM	L02-1010-54	-	L02-1085-54	L02-1372-54	L02-1205-54
PTFE	L02-1040-55	L02-1065-57	L02-1085-55	L70-1280-55	L02-1205-55
Santoprene	L02-1010-58	-	L02-1085-58	L02-1372-58	L02-1205-58

WARRANTY

All products by LIQUADE are built to meet the highest standards of quality and are guaranteed to be free from defects in material and workmanship for a period of five (5) years from date of installation or six (6) years from date of manufacture, whichever comes first. Failure due to wear and tear or misapplication, shall be excluded from this warranty. Warranty shall be deemed void if unauthorized modifications are made to the pump or serviced by unauthorized LIQUADE personnel or partners.

LIQUADE cannot guarantee the suitability of the pump or parts for any particular application. In addition, LIQUADE shall not be liable for consequential damage or expense arising from the use or misuse of its products on any application. Warranty is limited to replacement or repair of the pump or part at the factory or at a point designated by LIQUADE.

Prior approval must be obtained from LIQUADE for return of any product for warranty consideration and must be accompanied by the legitimate MSDS for the product(s) involved. Also, this warranty does not obligate LIQUADE to bear the cost of labour or transportation charges in connection with replacement or repair of defective pumps/parts.

All investigation as to the cause of failure of the pump shall be solely determined by Liquade and its decision deemed final.

This warranty is in lieu of all other warranties and conditions expressed or implied, written or oral, statutory to the extent allowable by law or otherwise, which are hereby negated and excluded.

PLEASE FILL OUT THE FORM BELOW AND RETURN BY FAX OR EMAIL

PUMP INFORMATION				
Item #		Serial#		
Company Where Purchased				
YOUR INFORMATION				
Company Name				
Industry				
Name		Title		
Street address				
City	State	Postal Code	Country	
Telephone	Fax	E-mail	Website	
Number of pumps in facility? _____		Number of Liquade pumps? _____		
Types of pumps in facility (check all that apply) <input type="checkbox"/> Diaphragm <input type="checkbox"/> Centrifugal <input type="checkbox"/> Gear <input type="checkbox"/> Submersible <input type="checkbox"/> Submersible				
<input type="checkbox"/> Others (please indicate) _____				
Media being pumped _____				
How did you hear of Liquade Pump? <input type="checkbox"/> Trade Journal <input type="checkbox"/> Trade Show <input type="checkbox"/> Internet/Email <input type="checkbox"/> Distributor				
<input type="checkbox"/> Others (please indicate) _____				

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