

**ALL-FLO AIR OPERATED DOUBLE DIAPHRAGM PUMP SPECIFICATIONS** (MARCH 10, 2006)

The pump shall be an air operated, double diaphragm design with ball check valves. Actuated entirely by compressed air and constructed to permit quick and easy access for inspection and maintenance. Design, construction, and operating characteristics must be consistent from size to size for simplicity and ease of repair when required. The entire air system must be capable of operating without lubrication, and be free of vent holes that would allow damaging corrosive fumes to enter. The air valve must have only one moving part. Operational design characteristics must provide for the largest possible volume per stroke to insure lower cycle rates and longer component life.

**I AIR SYSTEM**

- No vent holes
- Operate lube free---no oilers required, internal or external.
- Non-stalling
- No air loss when discharge valve is closed.
- No reset buttons or magnets
- Operating pressures minimum 20 psi (1.2bars) - maximum 100psi (6.8 bars)
- One piece, all- plastic (up to and including 2" pumps)
- Modular design
- Externally serviceable

**II PUMP CHARACTERISTICS**

- GPM Capacities
- \_\_\_\_\_ 1/4" models = 0 to 4 GPM
- \_\_\_\_\_ 3/8" models = 0 to 9 GPM
- \_\_\_\_\_ 1/2" models = 0 to 14 GPM (Bolted Models 0 to 17 GPM)
- \_\_\_\_\_ 1" models = 0 to 40 GPM (Bolted Models 0 to 41 GPM)
- \_\_\_\_\_ 1.5" models = 0 to 95 GPM
- \_\_\_\_\_ 2" models = 0 to 150 GPM
- \_\_\_\_\_ 3" models = 0 to 255 GPM

Full stroke, full flow, regardless of diaphragm material.  
 One flow curve for all materials, ***no reduced capacity for PTFE***  
 Diaphragm rod must be solid stainless steel, ***not plated***  
 Flanged fittings (ANSI 150 lb, DIN compatible) are available for 1 1/2" and 2" models.  
 Dual porting options available.  
 NPT or BSP compatible threads for air supply port, suction and discharge ports.  
 Solids handling capacities;

1/4" pumps	1/16" or 1.6 mm
3/8" pumps	1/16" or 1.6 mm (with MAX-PASS valves 1/4" or 6.4 mm)
1/2" pumps	1/8" or 3.1 mm (with MAX-PASS valves 3/8" or 9 mm)
1" pumps	1/4" or 6.4 mm (with MAX-PASS valves 3/4" or 19 mm)
1.5" pumps	1/4" or 6.4 mm
2" pumps	1/4" or 6.4 mm
3" pumps	7/16" or 11.1 mm

Standard equipment includes exhaust muffler.

**III--Wetted components**

- Polypropylene
- Nylon
- PVDF (Kynar)
- Aluminum
- 316 Stainless Steel
- Conductive Nylon

**IV--Diaphragms**

- Geolast (Nitrile)
- Santoprene (FDA optional)
- Polyurethane
- PTFE
- Viton
- FDA Hytrel

**V--Valve Seats**

- Polypropylene
- Nylon
- Nitrile (Buna-N) -- 1 1/2", 2" & 3" models
- PVDF (Kynar)
- 316 Stainless Steel
- EPDM -- 1 1/2", 2" & 3" models
- Conductive Nylon
- Aluminum

**VI--CHECK BALLS**

- Geolast (Nitrile) (FDA optional)
- Santoprene
- PTFE
- Viton
- EPDM (FDA optional)
- Stainless Steel 316

**VII -- MAX PASS VALVES**

- Nitrile
- EPDM
- Viton (FDA)