



Features

- Flow capacities up to 6.5 GPH (Duplex)
- Pressure Up to 3000 PSI
- Modular design in aluminum housing
- Metering accuracy +/- 1%
- Easy capacity controls – manual/auto
- Built in safety – Internal relief valve
- Available in duplex to double flow capacity
- Ability to handle difficult liquids like slurries, off-gasing, and high viscosities

Specifications

Flow capacity adjustment – 0-100%
While the pump is running or stopped

Turndown Ratio

Stroke length – 10:1
Stroke frequency – 10:1
Combined – 100:1

Metering accuracy

Steady state - +/- 1 %
Linearity - +/- 1%
Combined - +/- 1%

Maximum process fluid temperature

Custom engineered metallic liquid end: 500F
Metallic liquid end/PTFE diaphragm: 250F(121C)
Plastic Head: 140F (60C)
Plunger stroke length
Hydraulic oil capacity

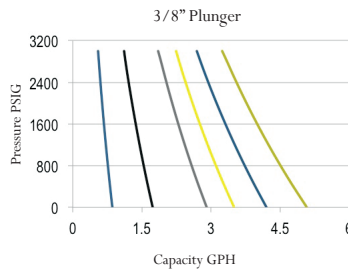
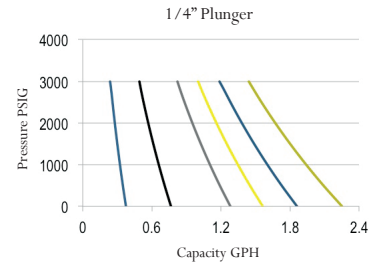
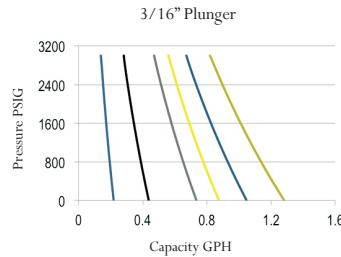
Displacement per stroke – by plunger size

3/16" - 0.0207 in (0.33 ml)
3/8" - 0.0828 in (1.35 ml)
1/4" - 0.0368 in (0.60 ml)

SERIES 900 PERFORMANCE TABLE

AquFlow Model Number	Capacity GPH (LPH)	Pressure PSIG (bars)	Speed (SPM)	Plunger Diameter	Connection (NPT)
DM3T 1929-0X013	0.14 (0.53)	3,000 (200)	29	3/16"	1/4"
DM3T 1958-0X013	0.28 (1.06)		58		
DM3T 1997-0X013	0.47 (1.78)		97		
DM3T 1912-0X013	0.56 (2.12)		117		
DM3T 1914-0X013	0.67 (2.54)		140		
DM3T 1917-0X013	0.82 (3.10)		170		
DM3T 2529-0X013	0.24 (0.91)	3,000 (200)	29	1/4"	1/4"
DM3T 2558-0X013	0.49 (1.85)		58		
DM3T 2597-0X013	0.82 (3.10)		97		
DM3T 2512-0X013	1.00 (3.79)		117		
DM3T 2514-0X013	1.19 (4.50)		140		
DM3T 2517-0X013	1.44 (5.45)		170		
DM3T 3829-0X013	0.55 (2.08)	3,000 (200)	29	3/8"	1/4"
DM3T 3858-0X013	1.11 (4.20)		58		
DM3T 3897-0X013	1.86 (7.04)		97		
DM3T 3812-0X013	2.24 (8.48)		117		
DM3T 3814-0X013	2.69 (10.18)		140		
DM3T 3817-0X013	3.25 (12.30)		170		

PERFORMANCE CURVE - TYPICAL



ULTRA LOW FLOW SERIES

Designed Specifically For Low Flow Applications
IN Oil & Gas , Pharma, Cosmetics, Food &
Other Industrial Applications.

Lowest Flow Hydraulic Diaphragm Metering
Pump On the Market Made In Compliance API
675.

AQUFLOW PUMPS WORK BEST WITH AQUFLOW ACCESSORIES

Calibration Columns: Help calibrate the pump accurately
0-10 liters in PVC, Stainless Steel etc.

Back Pressure Valves: Maintain steady shut off pressure for valves
3/8" to 2" in PVC, Stainless Steel, Alloy 20, PVDF, Hast. C

Safety Relief Valves: For additional layer of safety from over pressurization
3/8" to 2" in PVC, Stainless Steel, Alloy 20, PVDF, Hast. C

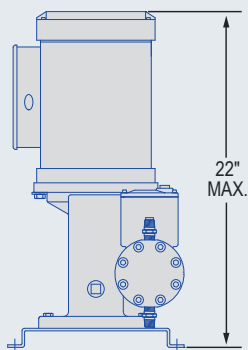
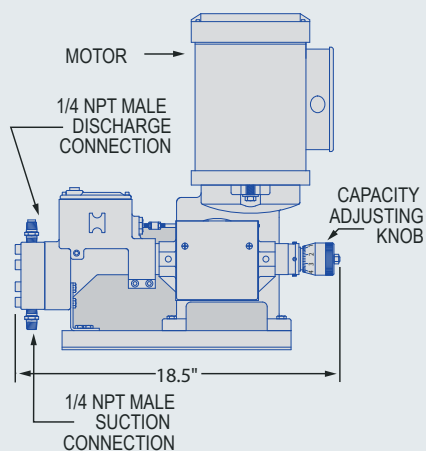
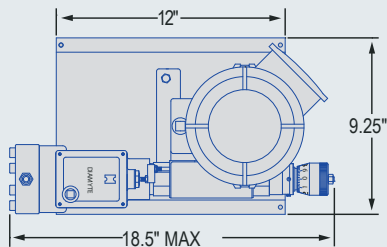
Pressure Gauge with Isolator: To visually see the functioning of the pump

Pulsation Dampeners: To get a pulse less steady flow
0-10 liters in PVC, Stainless Steel, Alloy 20, PVDF, Hast. C.

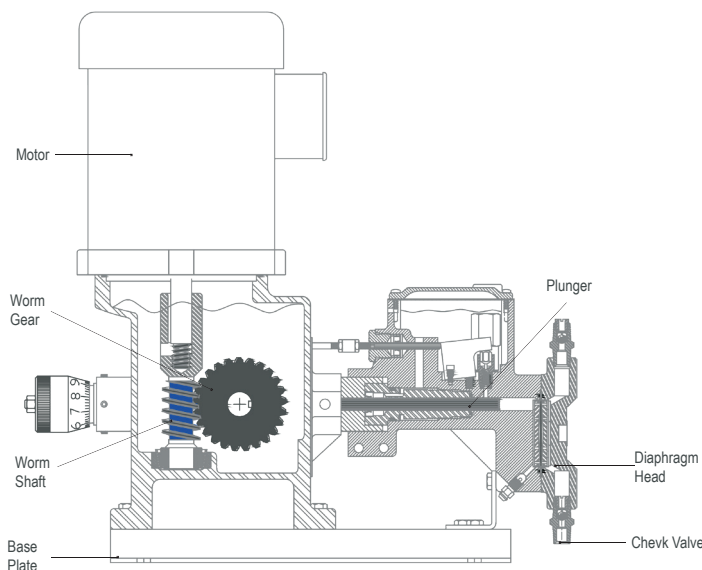
Strainers: To keep the debris away from check valves



DIMENSIONS



CROSS SECTION



S900 Options

Capacity Control Options: Dual Axis with both stroke length and stroke speed adjustable

Stroke Length Controls: Manual - Standard on all pumps
 Electric – Electric stepper motor. Capable of 4-20mA input
 Pneumatic – Runs on 30 PSI air for hazardous environment

Stroke Speed Controls: Variable Frequency Drive – AC/DC Special Liquid Handling

Liquid Handling Options

Tubular: For liquids with suspended solids/slurries that may clog. Good for high viscosity liquids also.

Degassing Valve: Some challenging liquids can cause air locking due to off gassing. Our pump head with degassing valve ensures accurate and consistent pumping by letting out gas bubbles from the pump head.

Double Ball Check Valve: To make doubly sure you have positive valve shut off.

Tungsten Carbide Valve Balls: For abrasive liquids.

Leak Detection Options

Leak Detection: There are two types of leak detection options available with AquFlow pumps.

Conductive: Conductivity probe between 2 diaphragms to sense any break/rupture.

Vacuum: Uses a vacuum switch between 2 diaphragms to sense rupture/ failure.

Other Options

Liquid Connections – NPT / FLANGE/ TRICLAMP

Motor Options: Enclosure: TEFC, TENV, Explosion Proof, Washdown
 Power Supply: ACV 115V, 230V, 380V, 460V, DC-12, 24, 90, 180, Single Phase, 3-Phase.