



### Features

- Flow capacities up to 123 GPH (Duplex)
- Pressure Up to 4,000 PSI
- Unibody Design – Less Parts
- 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

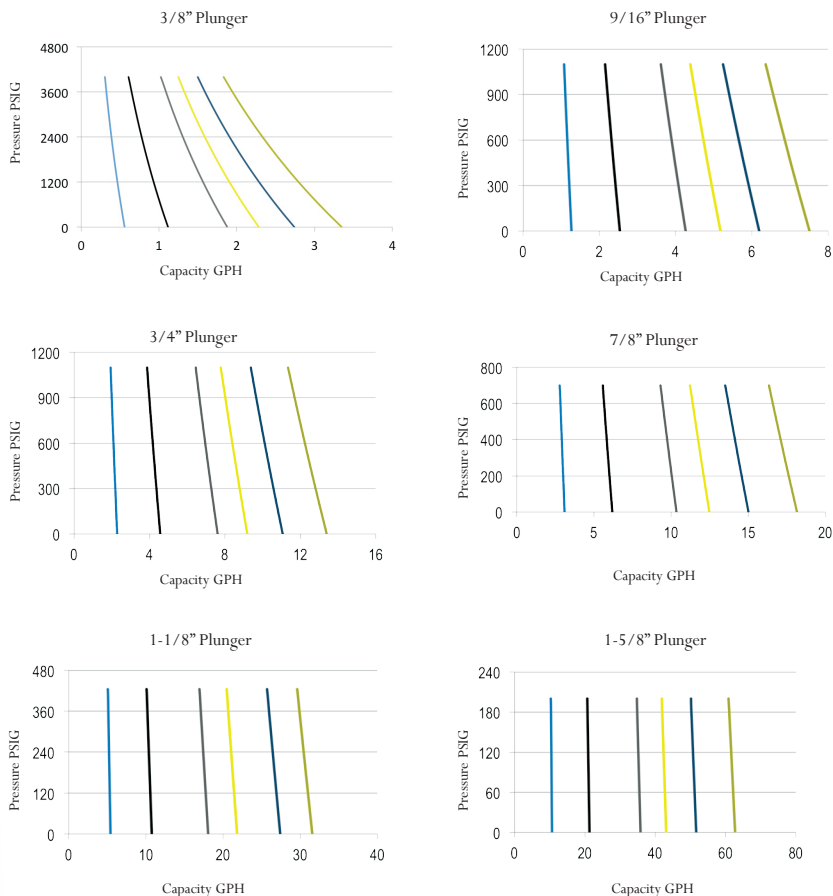
Custom engineered metallic liquid end: 500F  
Metallic liquid end/PTFE diaphragm: 250F(121C)  
Plastic Head: 140F (60C)  
Plunger stroke length: 0.75  
Hydraulic oil capacity: 2qts (simplex) 3qts (Duplex)

#### Displacement per stroke – by plunger size

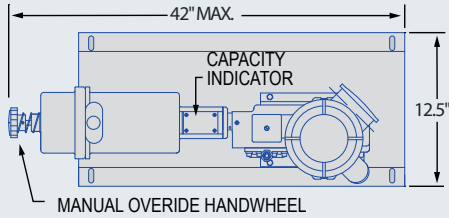
3/8" - 0.0828 in (1.35 ml)  
9/16" - 0.1864 in (3.50ml)  
3/4" - 0.3313 in (5.43 ml)  
7/8" - 0.4510 in (7.40 ml)  
1-1/8" - 0.7872 in (12.9 ml)  
1-5/8" - 1.51 in (24.71 ml)

AquFlow Model Number	Capacity GPH (LPH)	Pressure PSIG (bars)	Speed (SPM)	Plunger Diameter	Connection (NPT)
CA4T 3829-0X013	0.55 (2.1)	4,000 (275)	29	3/8"	1/4"
CA4T 3858-0X013	1.10 (4.2)		58		
CA4T 3897-0X013	1.85 (7.0)		97		
CA4T 3812-0X013	2.25 (8.5)		117		
CA4T 3814-0X013	2.70 (10.2)		140		
CA4T 3817-0X013	3.30 (12.5)		170		
CJ4T 5629-0X014	1.25 (4.7)	1,100 (75)	29	9/16"	3/8"
CJ4T 5658-0X014	2.50 (9.5)		58		
CJ4T 5697-0X014	4.20 (15.9)		97		
CJ4T 5612-0X014	5.10 (19.3)		117		
CJ4T 5614-0X014	6.10 (23.1)		140		
CJ4T 5617-0X014	7.40 (28.0)		170		
CJ4T 5629-0X014	2.25 (8.5)	1,100 (75)	29	3/4"	3/8"
CJ4T 5658-0X014	4.50 (17.1)		58		
CJ4T 5697-0X014	7.50 (28.4)		97		
CJ4T 5612-0X014	9.05 (34.3)		117		
CJ4T 5614-0X014	10.9 (41.3)		140		
CJ4T 5617-0X014	13.2 (49.2)		7		
CJ4T 8729-0X014	3.05 (11.5)	700 (48)	29	7/8"	3/8"
CJ4T 8758-0X014	6.10 (23.0)		58		
CJ4T 8797-0X014	10.2 (38.6)		97		
CJ4T 8712-0X014	12.3 (46.6)		117		
CJ4T 8714-0X014	14.8 (56.0)		140		
CJ4T 8717-0X014	17.9 (67.8)		170		
CJ4T 11329-0X014	5.33 (20.2)	700 (48)	29	1-1/8"	3/8"
CJ4T 11358-0X014	10.6 (40.1)		58		
CJ4T 11397-0X014	17.8 (67.4)		97		
CJ4T 11312-0X014	21.5 (81.4)		117		
CJ4T 11314-0X014	27.0 (102.2)		140		
CJ4T 11317-0X014	31.1 (117.7)		170		
CJ4T 16229-0X018	10.5 (39.7)	200 (13)	29	1-5/8"	1/2"
CJ4T 16258-0X018	21.0 (79.5)		58		
CJ4T 16297-0X018	35.3 (133.6)		97		
CJ4T 16212-0X018	42.5 (160.9)		117		
CJ4T 16214-0X018	50.9 (192.7)		140		
CJ4T 16217-0X018	61.8 (233.9)		170		

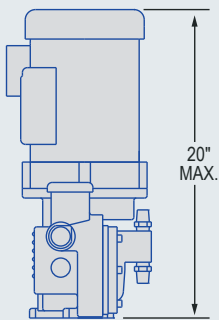
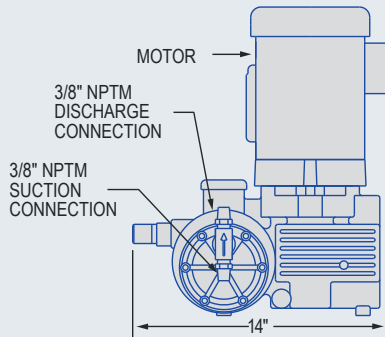
### PERFORMANCE CURVE - TYPICAL



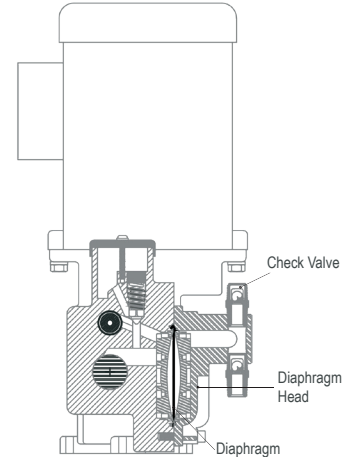
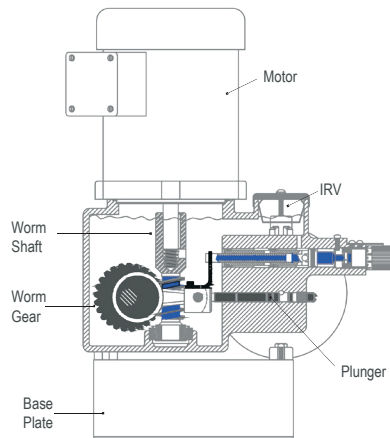
## DIMENSIONS



Series 1000 with ECCA



## CROSS SECTION



### S1000 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.