



Features

- Flow capacities up to 964 GPH (Duplex)
- Pressure Up to 675 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: 50F(121C)

Plastic Head: 140F (60C)

Plunger stroke length - 2.75"

Hydraulic oil capacity

Displacement per stroke – by plunger size

1" - 2.3561 in (38.61 ml)

1-3/4" - 7.2158 in (118.25 ml)

2-1/4" - 11.9282 in (195.48 ml)

1-1/4" - 3.6815 in (60.33 ml)

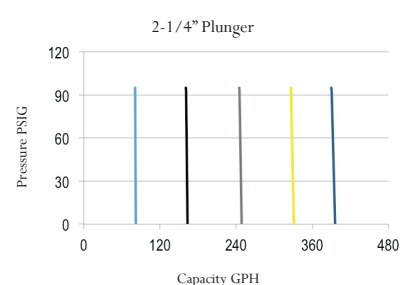
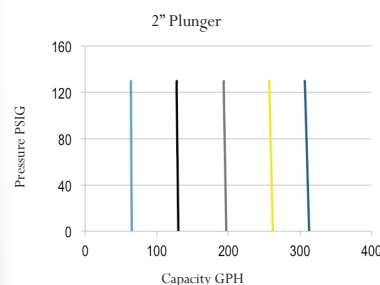
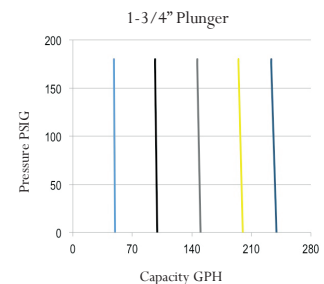
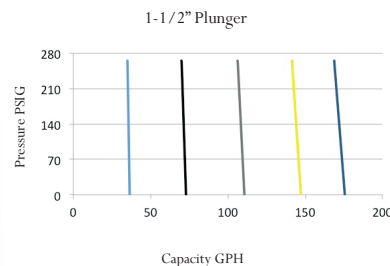
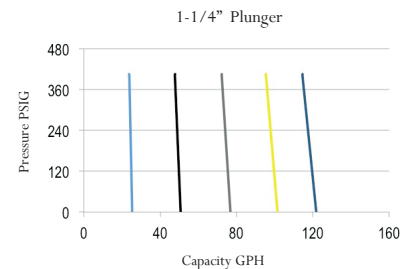
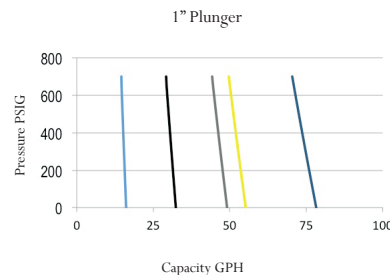
2" - 9.4247 in (154.45 ml)

2-1/2" - 14.1546 (231.9 ml)

SERIES 3000 PERFORMANCE TABLE

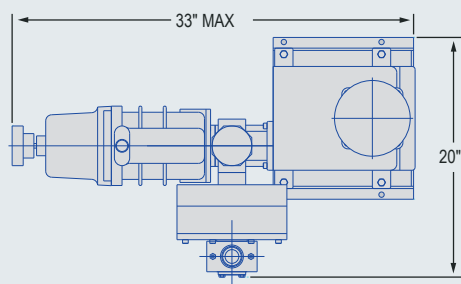
AquFlow Model Number	Capacity GPH (LPH)	Pressure PSIG (bars)	Speed (SPM)	Plunger Diameter	Connection (NPT)
CNIT 0829-0X018	15.9 (60.2)	700 (48)	29	1"	1/2"
CNIT 0858-0X018	31.9 (120.7)		58		
CNIT 0888-0X018	48.4 (183.2)		88		
CNIT 0812-0X018	54.4 (205.9)		117		
CNIT 0814-0X018	77.1 (291.8)		140		
CNIT 1029-0X018	25.0 (94.6)	405 (28)	29	1-1/4"	1/2"
CNIT 1058-0X018	50.0 (189.3)		58		
CNIT 1088-0X018	75.7 (286.5)		88		
CNIT 1012-0X018	100 (378.5)		117		
CNIT 1014-0X018	120 (454.2)		140		
CNIT 1229-0X018	35.9 (135.9)	265 (18)	29	1-1/2"	1/2"
CNIT 1258-0X018	71.8 (271.8)		58		
CNIT 1288-0X018	109 (412.6)		88		
CNIT 1212-0X018	145 (548.9)		117		
CNIT 1214-0X01A	173 (654.9)		140		
CNIT 1429-0X018	48.9 (185.1)	180 (12)	29	1-3/4"	1/2"
CNIT 1458-0X018	97.8 (370.2)		58		
CNIT 1488-0X018	148 (560.2)		88		
CNIT 1412-0X01A	197 (745.7)		117		
CNIT 1414-0X01A	236 (893.4)		140		
CNIT 1629-0X018	63.9 (241.9)	130 (9)	29	2"	1-1/2"
CNIT 1658-0X018	128 (484.5)		58		
CNIT 1688-0X01A	194 (724.4)		88		
CNIT 1612-0X01B	258 (976.6)		117		
CNIT 1614-0X01B	308 (1,165.9)		140		
CNIT 1829-0X018	80.8 (305.9)	95 (6)	29	2-1/4"	1-1/2"
CNIT 1858-0X018	161 (609.5)		58		
CNIT 1888-0X01A	245 (927.4)		88		
CNIT 1812-0X01B	326 (1,234.0)		117		
CNIT 1814-0X01C	90 (1,476.3)		140		
CNIT 2029-0X018	100 (378.5)	75 (5)	29	2-1/2"	1-1/2"
CNIT 2058-0X01A	200 (757.1)		58		
CNIT 2088-0X01B	300 (1,135.6)		88		
CNIT 2012-0X01C	400 (1,514.2)		117		
CNIT 2014-0X01C	482 (1,824.6)		140		

PERFORMANCE CURVE - TYPICAL

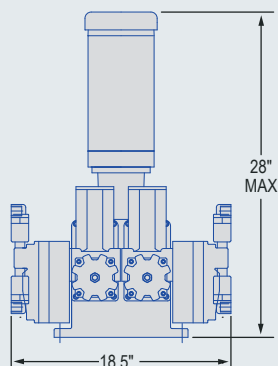
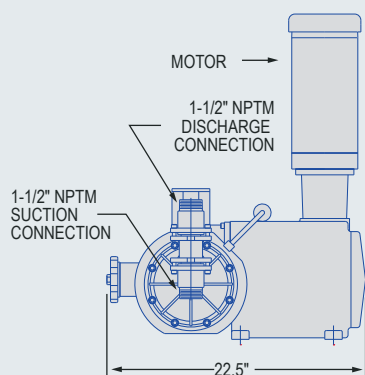


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DIMENSIONS

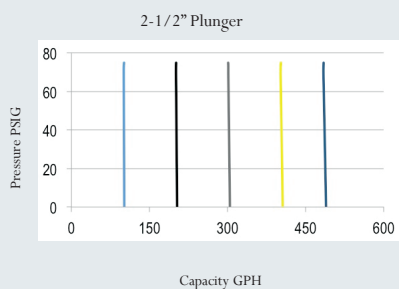


Series 3000 with ECCA

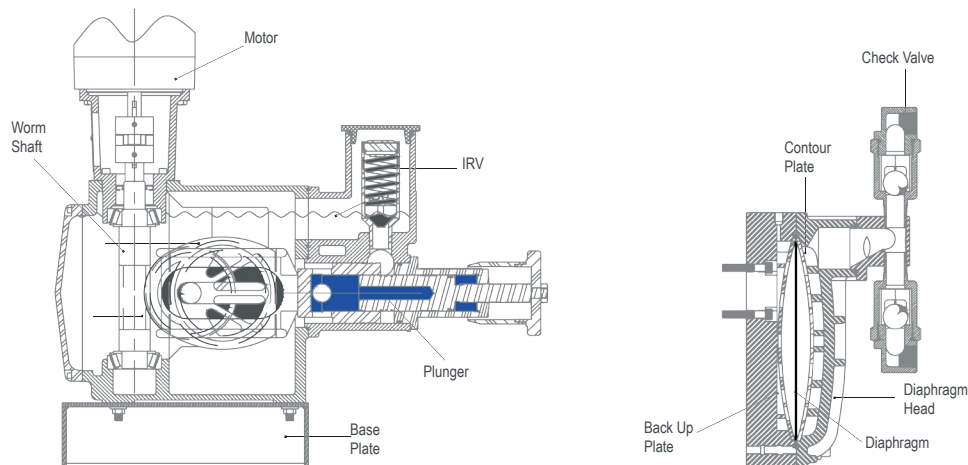


Series 3000 Duplex

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CROSS SECTION



S3000 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.