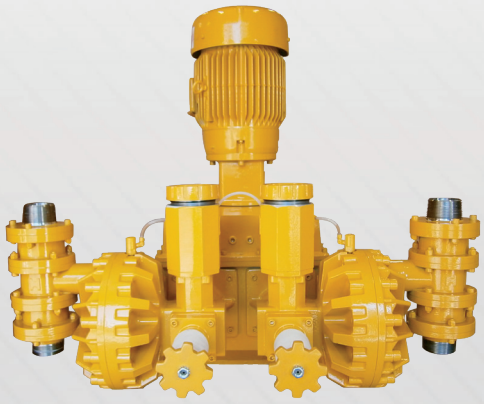
Series 4000



Features

- Flow capacities up to 3530 GPH (Duplex)
- Pressure Up to 3,500 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 - 6”
Hydraulic oil capacity

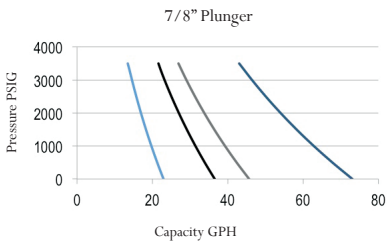
Displacement per stroke – by plunger size

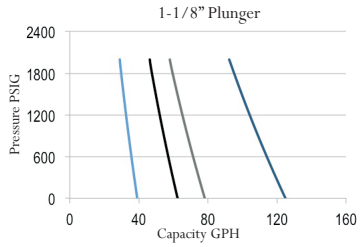
7/8” - 2.2698 in (37.19 ml)
1-9/16” - 7.6453 in (125.29 ml)
3” - 28.1989 in (462.12 ml)
1-1/8” - 3.8013 in (62.29 ml)
2-1/2” - 19.63 in (321.77 ml)
4” - 50.34 (824.99 ml)

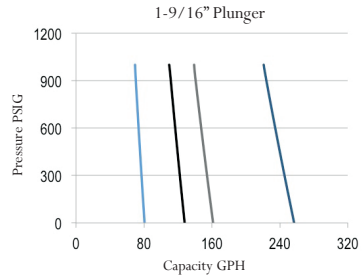
SERIES 4000 PERFORMANCE TABLE

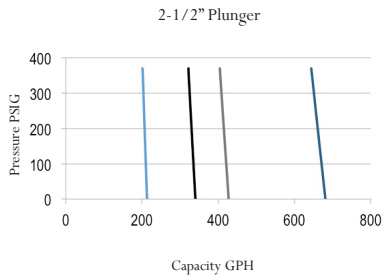
AquFlow Model Number	Capacity GPH (LPH)	Pressure PSIG (bars)	Speed (SPM)	Plunger Diameter	Connection (NPT)
GNIT 0744-BC01A GNIT 0770-BC01A GNIT 0788-BC01A GNIT 0714-BC01A	22.6 (85.5) 36.0 (136.3) 45.0 (170.3) 72.0 (272.5)	3,500 (241)	44 70 88 40	7/8”	1-1/4”
GNIT 0944-BC01A GNIT 0970-BC01A GNIT 0988-BC01A GNIT 0914-BC01A	38.5 (145.7) 61.5 (232.8) 77.0 (291.5) 123 (465.6)	2,000 (138)	44 70 88 140	1-1/8”	1-1/4”
GNIT 1344-BC01F GNIT 1370-BC01F GNIT 1388-BC01F GNIT 1314-BC01F	79.5 (300.9) 126 (477.0) 159 (601.9) 253 (957.7)	1,000 (69)	44 70 88 140	1-9/16”	2-1/2”
GNIT 2044-BC01F GNIT 2070-BC01F GNIT 2088-BC01F GNIT 2014-BC01F	210 (794.9) 335 (1,268.1) 421 (1,593.7) 671 (2,540.0)	370 (26)	44 70 88 140	2-1/2”	2-1/2”
GNIT 2444-BC01H GNIT 2470-BC01H GNIT 2488-BC01H GNIT 2414-BC01H	304 (1,150.8) 485 (1,835.9) 609 (2,305.3) 970 (3,671.8)	295 (20)	44 70 88 140	3”	4”
GNIT 3244-BC01H GNIT 3270-BC01H GNIT 3288-BC01H GNIT 3214-BC01H	554 (2,097.1) 882 (3,338.7) 1,109 (4,198.0) 1,765 (6,681.2)	160 (11)	44 70 88 140	4”	4”

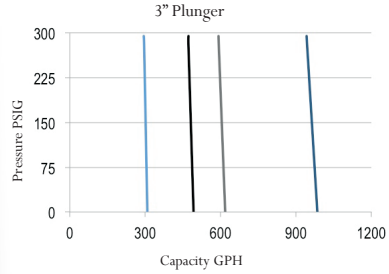
PERFORMANCE CURVE - TYPICAL

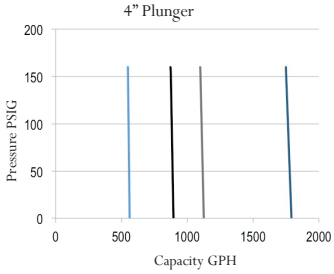




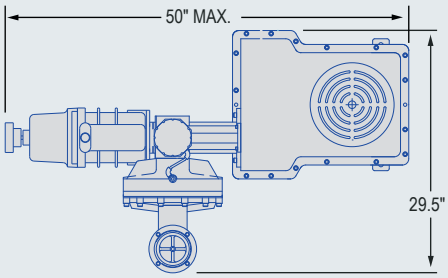




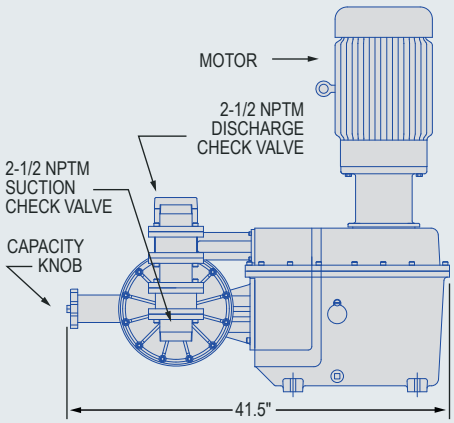


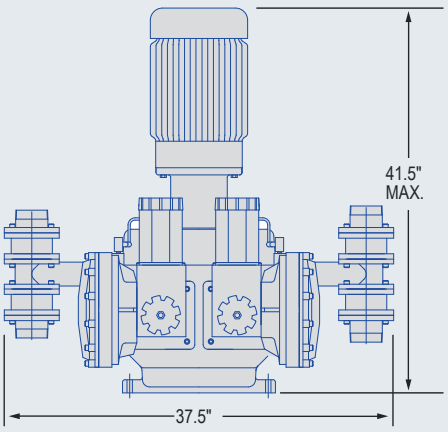


DIMENSIONS



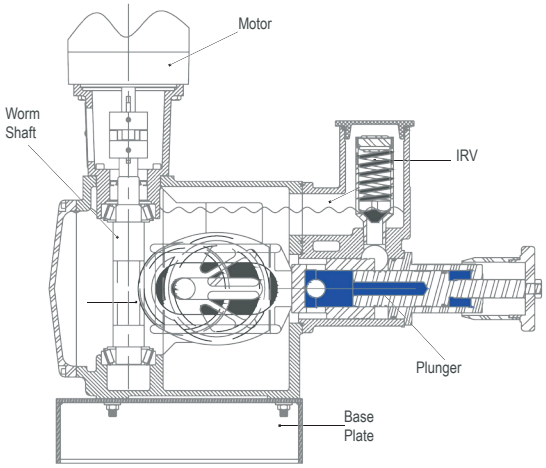
Series 4000 with ECCA

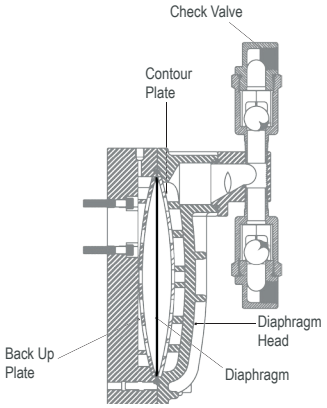




Series 4000 Duplex

CROSS SECTION





S4000 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.