

AquFlow®

Series 1000



Hydraulically Actuated Diaphragm Metering Pump (formerly HydroFlo)

Features:

- Flow Capacities of 0.55 to 123.6 GPH
- Pressure up to 4,000 PSIG
- Metering Accuracy +/- 1%
- 10:1 Turndown via Stroke Length
- Viscosities up to 100,000 cps
- Internal Hydraulic Relief Valve
- Modular Design with Multiple Options
- Tubular Diaphragm Option to Handle Abrasives
- Available in Duplex Configuration to Double Flow Capacity



Series 1000 Performance Table

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 7529-0X014	2.25 (8.5)	1,100 (75)	29	3/4"	3/8"
CJ4T 7558-0X014	4.50 (17.1)		58		
CJ4T 7597-0X014	7.50 (28.4)		97		
CJ4T 7512-0X014	9.05 (34.3)		117		
CJ4T 7514-0X014	10.9 (41.3)		140		
CJ4T 7517-0X014	13.2 (49.2)		170		
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	5.05 (19.1)	425 (29)	29	1-1/8"	3/8"
CJ4T 11358-0X014	10.1 (38.2)		58		
CJ4T 11397-0X014	16.9 (64.0)		97		
CJ4T 11312-0X014	20.4 (77.2)		117		
CJ4T 11314-0X014	24.4 (92.4)		140		
CJ4T 11317-0X014	29.6 (112.0)		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		

"X" denotes a required material code selection. X=4 for 316 SS, 5 for CA20, 6 for Hast. C, 8 for PVC and A for PVDF. Capacity at 60 Hz and 100 psi.

Series 1000 is a rugged, compact, hydraulically actuated and balanced diaphragm metering pump. The pump is available in simplex or duplex configuration, with independent capacity adjustment for each pump head. All drive parts are fully enclosed and operate in an oil bath which minimizes friction and wear while providing protection from harsh environments. A self-compensating hydraulic system assures diaphragm position and eliminates the need for troublesome vacuum breakers and refill valve.

The easy to read micrometer knob enables convenient capacity adjustment between 0-100% while the pump is operating or stopped. In addition to manual control, the pump can be supplied with optional automatic capacity control, making it possible for the pump to control the flow rate in proportion to various process signals. A simple, externally adjustable, internal hydraulic relief valve protects the pump and the process from pump induced overpressure situations.

AquFlow®

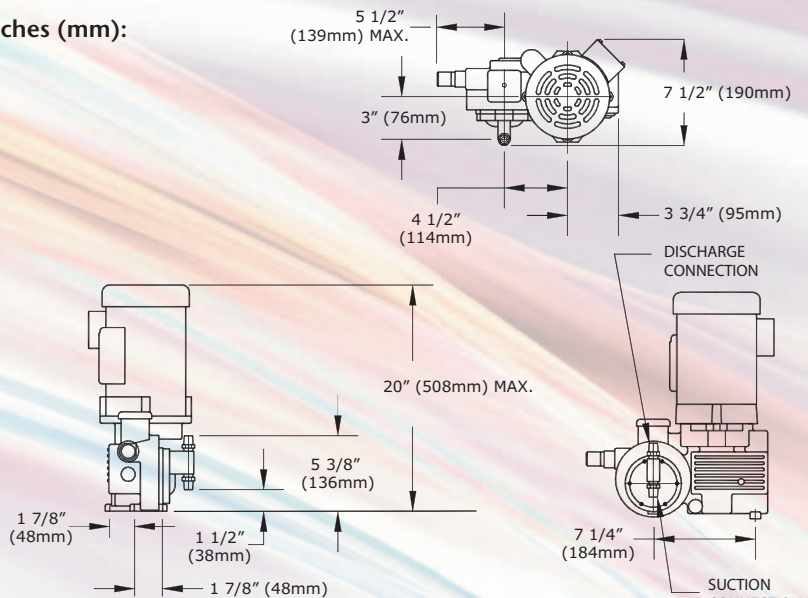
Series 1000

Hydraulically Actuated Diaphragm Metering Pump

Custom Features	Accessories	Motor (Drive) Options
Alternate Diaphragm Materials Automatic Capacity Control - Electronic, Pneumatic (Double Liquid) - for Leak Detection Degassing Liquid End Double Diaphragm Liquid Ends Diaphragm Status Indication Liquid End Jacketing Low NPSHa Liquid Ends Tubular Diaphragm Liquid Ends - for Slurries	Calibration Columns Pulsation Dampeners HydroDrive™ VSD's & Motor Controls Back Pressure Valves Safety Relief Valves Injection Assemblies HydroMix™ Agitators HydroTank® Liquid Handling Package	AC - 115 / 230 / 460 Volts, 50 / 60 Hertz, Single or 3 Phase, TEFC, TENV or Explosion Proof DC - 12 / 24 / 90 / 180 Volts, TEFC, TENV or Explosion Proof

Component	Material Options				
Pumphead	316 SS	Alloy 20	Hastelloy® C	PVC	Acrylic
Check Valve Body	316 SS	Alloy 20	Hastelloy® C	PVC	Acrylic
Check Valve Seat	316 SS	Alloy 20	Hastelloy® C	PVC	PVC
Check Valve Element	316 SS	Alloy 20	Hastelloy® C	Ceramic	Ceramic
Diaphragm	PTFE	PTFE	PTFE	PTFE	PTFE
Contour Plate	PVDF	PVDF	PVDF	PVDF	PVDF
O-Rings	FKM	FKM	FKM	FKM	FKM
Oil Reservoir Cap	304 SS	304 SS	304 SS	304 SS	304 SS
Stroke Control Knob	304 SS	304 SS	304 SS	304 SS	304 SS

Dimensions—inches (mm):



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Contact AquFlow / PumPortal for Air Operated Diaphragm, Solenoid, Sanitary and Pharmaceutical pump lines.



17865 Skypark Circle, Unit M | Irvine, CA 92614

T 949.757.1753 | F 949.757.1687 | sales@aquflow.com | www.aquflow.com