



AquFlow® *Metering Pumps and Systems*

The Legendary Brand in Metering Pumps

Offering the widest
range of material
selection, as well
as flow rates up to
1,750 GPH (Simplex),
3,500 GPH (Duplex)



- Agriculture
- Industry
- Chemical
- Water & Waste
- Oil & Gas
- Paints & Dyes
- Pulp & Paper



AquFlow® acquired the HYDROFLO® pump line in 2007 and is committed to supporting and developing this line with all our resources. Even with a new look and a new name our customers can expect the same reliability, durability and ruggedness of the HYDROFLO pumps. We assure all the current and former users of HYDROFLO metering pumps of our resolve to continue servicing their installations with parts and replacement pumps. PLEASE CONTACT US WITH ALL YOUR METERING PUMP NEEDS.

Series 1000



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.

Features:

- Flow capacities of 0.55 to 123.6 GPH
- Metering Accuracy +/- 1%
- Viscosities up to 100,000 cps
- Modular Design with Multiple Options
- Pressure up to 4,000 PSIG
- 10:1 Turndown via Stroke Length
- Internal Hydraulic Relief Valve
- Tubular Diaphragm option to handle abrasives

Series 1000 Performance Table

Capacity (GPH)	Pressure (PSIG)	Speed (SPM)	Plunger Diameter	Connection (MNPT)
0.55	4,000	29	3/8"	1/4"
1.10		58		
1.85		97		
2.25		117		
2.70		140		
3.30		170		
1.25	1,100	29	9/16"	3/8"
2.50		58		
4.20		97		
5.10		117		
6.10		140		
7.40		170		
2.25	1,100	29	3/4"	3/8"
4.50		58		
7.50		97		
9.05		117		
10.9		140		
13.2		170		
3.05	700	29	7/8"	3/8"
6.10		58		
10.2		97		
12.3		117		
14.8		140		
17.9		170		
5.05	425	29	1-1/8"	3/8"
10.1		58		
16.9		97		
20.4		117		
24.4		140		
29.6		170		
10.5	200	29	1-5/8"	1/2"
21.0		58		
35.3		97		
42.5		117		
50.9		140		
61.8		170		

Series 2000



AquFlow Series 2000 metering pump is a compact pump designed for its accuracy and durability. Its hydraulically balanced design means the life of its components including the diaphragm is long lasting. The wear is minimised on all its drive parts by enclosing it in an oil bath. The wetted components for the pump are available in various materials to assure compatibility with tough chemicals (refer to the Material Selection table on the following page)

The ease of use is enhanced by an easy to read micrometer knob which can adjust capacity from 0-100% even while the pump is operating. The pump can also be supplied with an optional automatic capacity control. Tubular diaphragm for abrasive slurries and leak detection. Also available as an option for other critical applications.

Features:

- Design Capacities of 2.95 to 224 GPH
- Metering Accuracy of ±1%
- Internal Hydraulic Relief Valve
- Hydraulically Balanced Diaphragm
- Discharge Pressures to 1,800 PSIG
- 10:1 Turndown via Stroke Length
- Modular Design With Multiple Options
- Duplex Option Doubles Flow Capacity

Series 2000 Performance Table

Capacity (GPH)	Pressure (PSIG)	Speed (SPM)	Plunger Diameter	Connection (MNPT)
2.95	1,800	29	5/8"	3/8"
5.90		58		
9.90		97		
11.9		117		
14.3		140		
19.5		191		
4.25	1,000	29	3/4"	3/8"
8.55		58		
14.3		97		
17.2		117		
20.6		140		
28.1		191		
7.60	360	29	1"	3/8"
15.2		58		
25.4		97		
30.6		117		
36.7		140		
50.0		191		
11.8	210	29	1-1/4"	3/8"
23.7		58		
39.7		97		
47.9		117		
57.3		140		
78.2		191		
17.1	195	29	1-1/2"	1/2"
34.2		58		
57.2		97		
69.0		117		
82.5		140		
112		191		

Series 3000



For larger flow capacities series 3000 is the obvious choice due to its unique design and construction. In spite of its high flow capacity it has an amazingly small footprint. It does not compromise on accuracy either keeping it below $\pm 1\%$ owing to its hydraulically balanced design. The Series 3000 metering pump is designed for continuous service with maximum reliability and minimum downtime.

Available in Stainless Steel, Hastelloy C, Alloy 20 and PVC it can handle corrosive chemicals with ease. It comes with the same easy to use manual and electronic control which can be operated on the fly or when the pump is stopped. With a tubular diaphragm it can easily handle abrasive slurries.

Features:

- Design Capacities of 15.9 to 964 GPH
- Metering Accuracy of $\pm 1\%$
- Internal Hydraulic Relief Valve
- Hydraulically Balanced Diaphragm
- Discharge Pressures to 700 PSIG
- 10:1 Turndown via Stroke Length
- Modular Design With Multiple Options
- Duplex Option Doubles Flow Capacity

Series 3000 Performance Table

Capacity (GPH)	Pressure (PSIG)	Speed (SPM)	Plunger Diameter	Connection (MNPT)
15.9	700	29	1"	1/2"
31.9		58		
48.4		88		
54.4		117		
77.1		140		
25.0	405	29	1-1/4"	1/2"
50.0		58		
75.7		88		
100		117		
120		140		
35.9	265	29	1-1/2"	1/2"
71.8		58		
109		88		
145		117		
173		140		
48.9	180	29	1-3/4"	1/2"
97.8		58		
148		88		
197		117		
236		140		
63.9	130	29	2"	1/2"
128		58		
194		88		
258		117		
308		140		
80.8	95	29	2-1/4"	1/2"
161		58		
245		88		
326		117		
390		140		
100	75	29	2-1/2"	1-1/2"
200		58		
300		88		
400		117		
482		140		

Series 4000



The AquFlow Series 4000 is a rugged, durable, hydraulically actuated and balanced diaphragm metering pump. The pump is available in simplex or duplex configuration, with independent capacity adjustment for each pumphead.

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.

Features:

- Design Capacities of 22.6 to 3,530 GPH
- Metering Accuracy of $\pm 1\%$
- Internal Hydraulic Relief Valve
- Hydraulically Balanced Diaphragm
- Discharge Pressures to 3,500 PSIG
- 10:1 Turndown via Stroke Length
- Modular Design With Multiple Options
- Specifically Matched Accessories

Series 4000 Performance Table

Capacity (GPH)	Pressure (PSIG)	Speed (SPM)	Plunger Diameter	Connection (MNPT)
22.6	3,500	44	7/8"	1-1/4"
36.0		70		
45.0		88		
72.0		140		
38.5		2,000		
61.5	70			
77.0	88			
123	140			
79.5	1,000		44	1-9/16"
126		70		
159		88		
253		140		
210		370	44	
335	70			
421	88			
671	140			
304	295		44	3"
485		70		
609		88		
970		140		
554		160	44	
882	70			
1109	88			
1765	140			

Material Selection for All AquFlow® Metering Pumps

PART	Pumphead	Check Valve Body	Check Valve Seat	Check Valve Element	Diaphragm	Contour Plate
MATERIALS AVAILABLE FOR ALL SERIES	316 SS, Alloy 20	316 SS, Alloy 20	316 SS, Alloy 20	316 SS, Alloy 20	PTFE	316 SS, Alloy 20
	Hastelloy C	Hastelloy C	Hastelloy C	Hastelloy C		Hastelloy C
	PVC or PVDF	PVC or PVDF	PVC or PVDF	or Ceramic		PVC or PVDF

AquFlow Advantage

Our current design of Aquflow pumps is the result of continuous improvement and refinement over a period of 36 years. Ever since HYDROFLO was founded in 1972 (Plumsteadville, PA) we had a passion to seek and listen to feedback from our customers who have been as vocal as they have been loyal. Whether it is design improvement or availability of an additional option, we make sure our customers have as much say as our engineers. The result is a range of metering pumps that meet and exceed most, if not all, expectations of our customers.

Manufactured in a state-of-the-art facility in Irvine, California, Aquflow pumps measure up to the highest standards of quality and consistency. Additional in-house capabilities added recently ensure we have the ability to provide customized solutions to your complex applications quickly and economically.

AquTank System

When you need a pump system put together with a tank and all the accessories you can rely on our engineers to put it together in any configuration. From one or two tank system to complex multi-pump and multi-tank skid mounted assemblies we can design for system integrity, ease of control and trouble free operation. For chemical feed applications AquTank systems can be engineered with our pumps in a cost effective package using materials that are compatible with the most aggressive chemicals.

Options

Motor – AC, DC, Single phase, Three phase, TEFC, TENV, Explosion Proof, 90V, 115V, 230V, 460V etc.

Speed Control – AV or DC Variable Frequency drives

Capacity Control – Manual, Electric or Pneumatic

Liquid Connections – NPT, Flange, Sanitary Tri Clamp etc.

Diaphragm Head – Degassing Valves, Leak Detection, Tubular Diaphragm, Double Diaphragms and Double Check Valves

Accessories

We can source accessories that match well with the Aquflow pump you select, including:

- Tanks / Containers
- Mixers
- Pressure Gauges
- Gauge Isolators
- Injection Quills
- Back Pressure Valves
- Safety Relief Valves
- Calibration Columns
- Pulsation Dampeners
- Electrical Control Panels...Etc.

Service & Support

We at AquFlow or your local distributor stand ready to assist you in sizing and selecting the right pump and system for your application. We will make sure that you are provided with all the technical details including specifications, flow characteristics, dimensions etc. to make an informed decision.

Once the order is placed we at AquFlow make sure that your pump is manufactured and tested to the highest standards in the industry. Our delivery time for most standard pumps could be less than a week ARO.

At AquFlow we believe that the best service we can provide is a trouble-free pump. Our reliable pump designs minimize the need for maintenance and service. Our personnel are also available for phone consultation to assist you in solving pump problems to prevent expensive downtime.

AquFlow stands with you from the very beginning of the process of selecting the right pump to installation and trouble-free operation of your pump system.

AquFlow

The Gold Standard in Metering Pump Technology

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