

# Flow Meter

## WHAT IS A FLOW METER?

An accessory that measures the amount of liquid in gallons flowing from the piston pump's discharge tee. Blackhawk offers two styles - velocity-type single-jet and turbine-computer.

## WHY IS IT IMPORTANT?

Monitoring pumped liquid volume is necessary to assess production against engineering goals and to meet regulatory and environmental requirements.

## HOW TO INSTALL

Liquid flows through the meter, attached downstream from a pressure-relief valve on piping from the pump's discharge tee. Male NPT threading (single jet) or female (turbine).

### Blackhawk Recommends

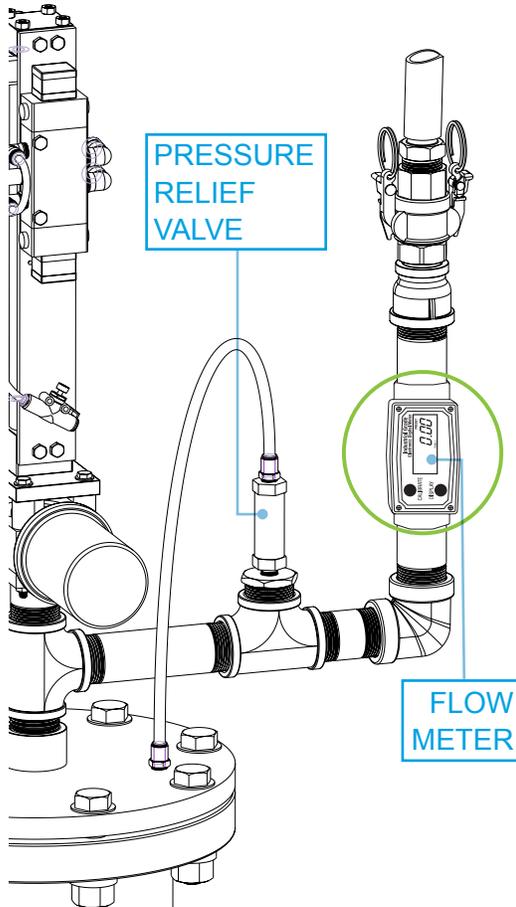
Pair the flow meter with a cycle counter to measure cycle efficiency and volume in cycles per gallon.



Velocity-type single-jet model with copper-alloy housing. Maximum operating pressure 150 psi. Sizes: ¼ in. to 2 in.



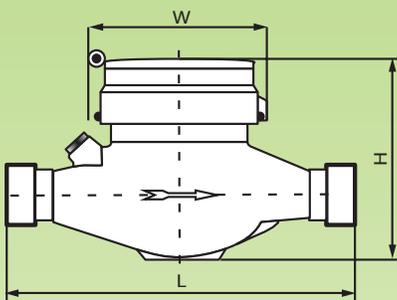
Turbine-computer type with 316 stainless-steel housing. Operating pressure rated to 1,500 psi. Sizes: ¼ in. to 2 in.



## How It Works

Discharge liquid drives an impeller in the velocity-type single-jet meter, which measure flow though the unit. Flow speed is calibrated to volume. A magnetic coupling connects the rotor to the register unit.

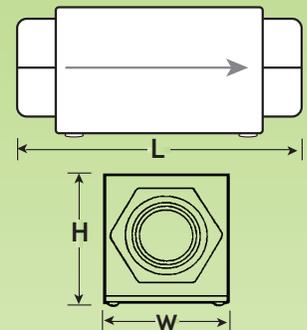
In the turbine-computer meter, liquid flows through the turbine housing. The spinning rotor generates an electrical signal in a pickup coil that connects with the onboard computer.



Single-jet models are built with a polycarbonate rotor and will accommodate flows to pump maximum gpm.

### Dimensions, Connections & Weights

Type	Size	L - Length in inches	W- Width in inches	H- Height in inches	Weight in pounds	Connector Threads
Single Jet	¼ in.	8.0	3.2	2.3	1.5	¾" NPT M
Single Jet	1 in.	10.2	4.1	4.9	5.9	1" NPT M
Single Jet	1½ in.	11.8	4.1	6.1	11.7	1½" NPT M
Single Jet	2 in.	11.8	4.9	6.1	13.4	2" NPT M
Turbine	¼ in.	4.3	2.0	2.0	2.5	¾" NPT F
Turbine	1 in.	4.5	2.0	2.2	3.0	1" NPT F
Turbine	1½ in.	5.3	2.7	2.8	4.6	1½" NPT F
Turbine	2 in.	6.3	3.3	3.2	6.8	2" NPT F



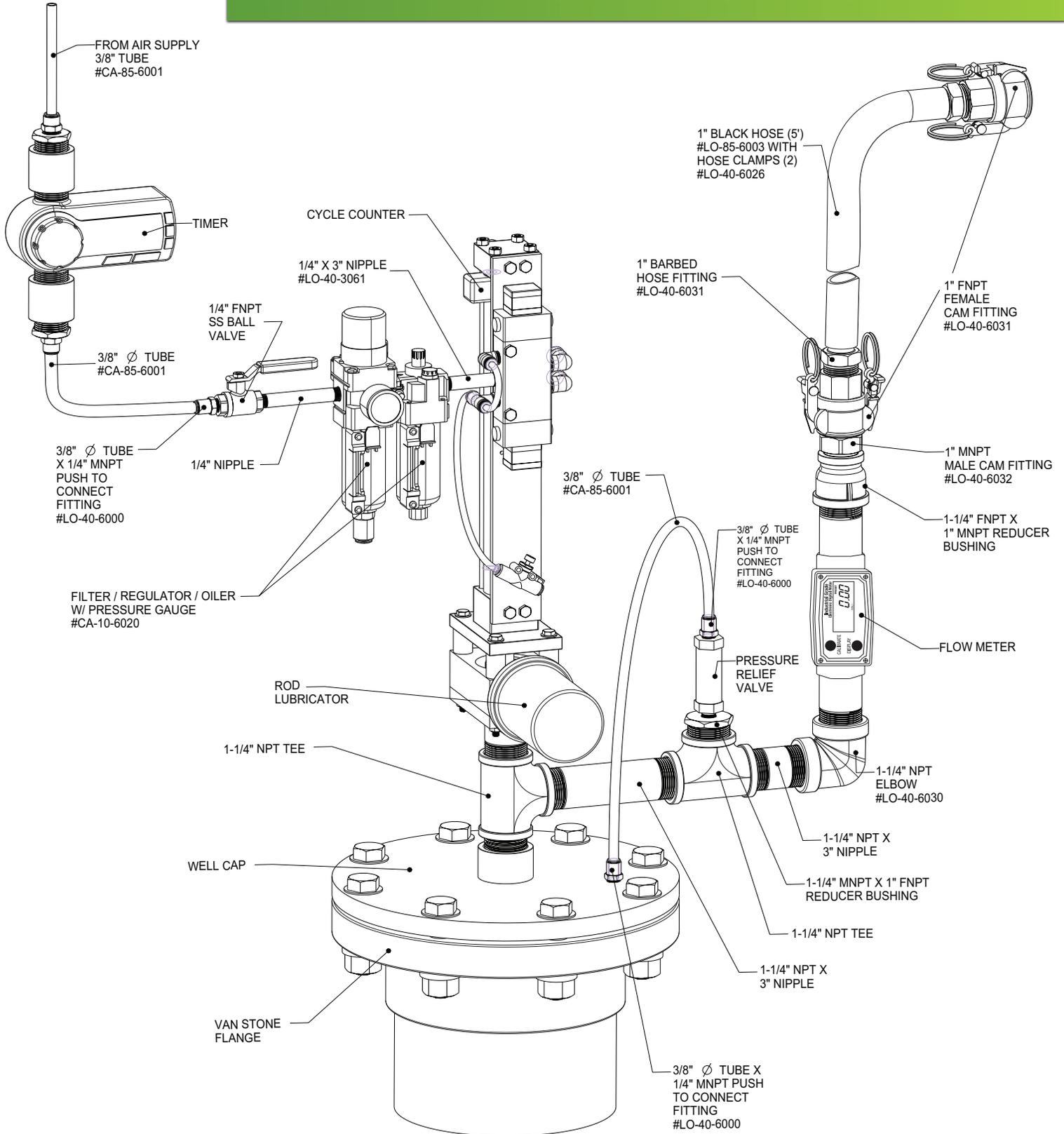
Turbine-computer models are built with a PVDF rotor and will accommodate flows to pump maximum gpm.

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Fact Sheet #8a

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## DRIVE MOTOR ASSEMBLY WITH ACCESSORIES



The best-performing environmental pump in the business

