

The solution for non-conductive fluids

Flow meters for aqueous media HM & HMP

When nothing else works

The HM / HMP turbine flow meter with non-contact pulse measurements is the reliable, precise, and economical alternative for mass flowmeters or electromagnetic flowmeters.

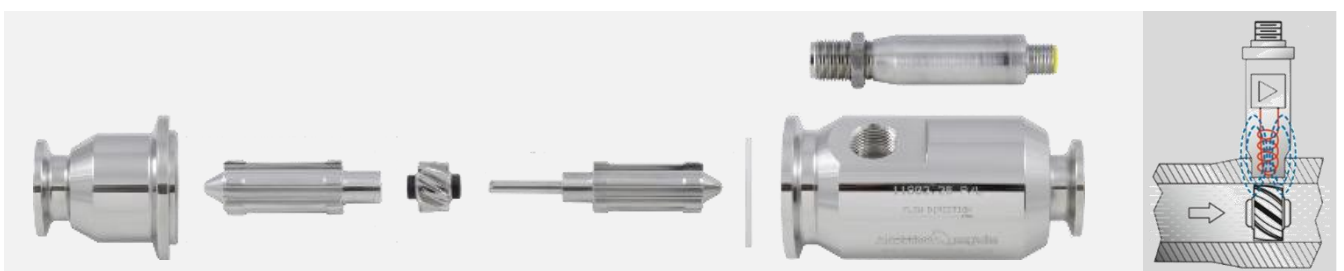
HM / HMP is suitable for aqueous media like filtered fruit juice or beer, alcohols, light oils, salt solutions, cleaning media, and acids, but also exhaust condensate, process water, demineralized water, and WFI.

- **Compact and robust:** Massive turbine housing made of stainless steel - insensitive to thermal influences, space-saving, insensitive to vibration
- **Hygienic & 3A-compliant:** 2-piece housing, specifically designed for sanitary applications, eliminates the need for internal locking rings to retain internal components. This ensures easy cleaning and maintenance, and results in improved cleanability, straightforward design, and a lower risk of product contamination
- **Non-contact pulse measurement:** A signal probe generates an electromagnetic field that interacts with the rotating turbine rotor blades to produce a precisely measurable induction current
- **Durable:** The combination of Rulon 123™ sleeve bearing and 316L stainless steel shaft withstands even difficult process conditions, steam blowdowns and autoclaving
- **Fast:** The low mass moment of inertia of the turbine wheel ensures a fast response time of less than 50 ms. Even rapid flow rate changes can be detected without any problems
- **For Food and Life Science:** Two versions that are specifically adapted to the respective requirements of the food and pharmaceutical industries



Technical specification at a glance

- **Flow range from 26.5 LPM / 7 GPM (1" T.C.) up to 946 LPM / 250 GPM (2" T.C.)**
- **Accuracy: ±0.5% of rate over specified range**
- Compact design with Tri-Clamp connection in pipes from DN25 (1") (DIN 11850 / ASME BPE)
- **Fluid temperature up to 120 °C (250 °F) for HM, up to 149 °C (300 °F) for HMP**
- **CIP / SIP / Autoclave up to 149 °C (300 °F)**
- **Long-life operation** through easy rotor replacement and recalibration
- For media with max. viscosity 100 cps and particle size < 20 µm



The solution for aqueous, non-conductive media: for Food applications

HM

Order Information



- SIZE**
- 100 1" Turbine flowmeter
 - 150 1 1/2" Turbine flowmeter
 - 200 2" Turbine flowmeter

- ROTOR OPTIONS**
- SS 316 stainless steel rotor

- HOUSING OPTIONS**
- 00 Standard housing
 - PT* 3/4" NPT threaded adapter for explosion proof applications

*Required for RTC, RTX, RIX & FIX options below

Replacement Parts

Part Number	Description
HTS1000	3-wire pick-up probe
HT75000	2-wire pick-up probe
HSDT000	3-wire pick-up probe
HM600-100SS	1" Rebuild kit 316 SS rotor
HM600-150SS	1.5" Rebuild kit 316 SS rotor
HM600-200SS	2" Rebuild kit 316 SS rotor

PROBE/DISPLAY OPTION



- OUTPUT OPTIONS**
- TS1 3-wire signal probe
 - T75 2-wire signal probe
 - SDT 3-wire signal probe
 - RTC Integral battery operated totalizer
 - RTW Remote battery operated totalizer (with 15' extension cable)
 - RTX Integral explosion proof battery operated rate totalizer
 - RIX Integral explosion proof battery operated rate/totalizer with 4-20mA output
 - FIX Integral explosion proof frequency to analog converter

CABLE

Part Number	Description
000	No cable (for RTC, RTW and RTX options above)
025	25' cable
050	50' cable
075	75' cable
100	100' cable

The solution for aqueous, non-conductive media and WFI: HMP for Life Science applications

Order Information



- SIZE**
- 100 1" Turbine flowmeter
 - 150 1-1/2" Turbine flowmeter
 - 200 2" Turbine flowmeter

- HOUSING OPTIONS**
- 00 Standard housing
 - PT* 3/4" NPT threaded adapter for explosion proof applications

*Required for RTC, RTX, RIX & FIX options below

REPLACEMENT PARTS

Part Number	Description
HTS1000	3-wire pick-up probe
HT75000	2-wire pick-up probe
HMP600-100	1" Rebuild kit 316SS rotor
HMP600-150	1.5" Rebuild kit 316SS rotor
HMP600-200	2" Rebuild kit 316SS rotor

SPARE CABLES

Part Number	Description
Cable 3W-25	25' cable with connector
Cable 3W-50	50' cable with connector
Cable 3W-75	75' cable with connector
Cable 3W-100	100' cable with connector

PROBE/DISPLAY OPTION



- OUTPUT OPTIONS**
- TS1 3-wire signal probe non magnetic sensing
 - T75 2-wire signal probe
 - RTC Integral battery operated totalizer
 - RTW Remote battery operated totalizer (with 15' extension cable)
 - RTX Integral explosion proof battery operated rate/totalizer
 - RIX Integral explosion proof battery operated rate/totalizer with 4-20mA output
 - FIX Integral explosion proof frequency to analog converter

CABLE

- 000 No cable (for R and F options above)
- 025 25' cable
- 050 50' cable
- 075 75' cable
- 100 100' cable