

Product Information - HMP

LIFE SCIENCES

"HMP" Turbine Flowmeter

Introduction

The "HMP" series turbine flowmeter is suited for applications that require an economical and accurate measurement solution. The "HMP" is designed using the proven method of monitoring the rotation of a turbine rotor in a flowing product stream. This is not a modification of an industrial design but a flowmeter designed specifically for sanitary applications. Understanding the requirements of these applications has produced a flowmeter with superior durability. The all 316L SS construction (including rotor), along with a unique 2-piece housing design eliminates the need for internal locking rings to retain internal components. This makes for a truly cleanable design that also provides exceptional performance. When used with the HTS1000 probe, the non-magnetic sensing of the rotor eliminates drag - present in other magnetically sensed turbines. This lack of drag provides better accuracy and extended operational life. These features, coupled with a durable Rulon® bearing and stainless steel shaft, give the "HMP" the ability to handle difficult process requirements such as steam blowdowns and the need to autoclave without difficulty.

Complete specifications and ordering information are available on the reverse side. For more information please visit our website at www.anderson-negele.com or contact your local authorized Anderson-Negele distributor.



Features

- Durable stainless steel shaft and Rulon® sleeve bearing eliminates failure due to blow downs
- · Two piece design allows for easy access to internals for inspection
- Designed to ASME BPE-2004 standards
- All 316L stainless steel construction

Specifications

ENVIRONMENT

Fluid Temperature Range: 0 - 149°C (32 - 300°F) Maximum Fluid Pressure: 10.3 Bar (150 psi) max

Maximum Fluid Viscosity: 100 cps max

Ambient Temperature Range: HTS1000: -40 - 79°C (-40 - 175°F)

HT75000: -54 - 107°C (-65 - 225°F)

± .5% of rate over specified range Accuracy:

Repeatability: ± .1% of rate

Flow Ranges: HMP-100: 26.5-265 LPM(7-70 GPM)

> HMP-150: 49-492 LPM(13-130 GPM) HMP-200: 94-946 LPM(25-250 GPM)

Cleaning Methods: CIP/SIP/Autoclave @ 149°C (300°F)

MECHANICAL SPECIFICATIONS

Sanitary Connections: 1", 1 1/2" and 2" Tri-Clamp® Gasket Material: PTFE Polytetrafluoroethylene Bearing Material: Rulon® 123 (reinforced Polytetrafluoroethylene)

Product Contact Materials:

316L stainless steel, Rulon® 123, Teflon®, and GSP1325-2

(Epoxy Resin)

20 Ra max, stainless steel Surface finish:

surfaces electropolished

Heavy duty Tri-Clamp® with Hardware:

live loaded clamp nut

DIMENSIONS:

MODEL	DIM "A"	DIM "B"	FITTING
HMP100	3.25" (82.6mm)	5.88" (149.4mm)	1" T.C.
HMP150	3.63" (92.2mm)	6.13" (155.7mm)	1 1/2" T.C.
HMP200	3.88" (98.6mm)	8.63" (219.2mm)	2" T.C.

ELECTRICAL SPECIFICATIONS

Power / Signal

HTS1000

8-24 VDC, 0.8 Watts maximum Supply Voltage: 7.3-23.3 VDC, Unscaled, Pulsed Output Signal Output:

Output Units: pulses per volume

HT75000

Supply Voltage: Signal Output: 0.18-2.6 V.P.P, Unscaled, Frequency Output

Output Units: pulses per volume

APPROVALS

USP Class VI

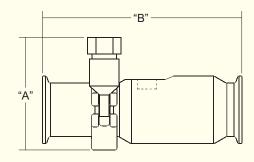
Designed to meet ASME BPE-2004 standards

3-A compliant, Third party verified in accordance with

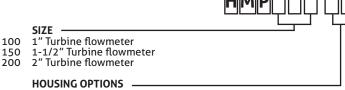
standard 28-03

Material, Conformance and Calibration: Certificates provided with

product, also available on-line using serial number



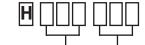
Order Information



Standard housing 3/4" NPT threaded adapter for explosion proof applications

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

PROBE/DISPLAY OPTION



OUTPUT OPTIONS

TS1 3-wire signal probe non magnetic sensing

T75 RTC

2-wire signal probe Integral battery operated totalizer

RTW Remote battery operated totalizer

(with 15' extension cable)

Integral explosion proof battery operated rate/totalizer Integral explosion proof battery operated rate/totalizer RTX

RIX

with 4-20mA output

FIX Integral explosion proof frequency to analog converter

CABLE

No cable(for R and F options above) 000

025 25' cable

50' cable 050

075 75' cable 100 100' cable

REPLACEMENT PARTS

Description Part Number 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 Cable 3W-25	<u>Description</u> 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

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