



Variable Area Flow Meter

EZ-View® 2-1/2...3 in. Flow Meters

DESCRIPTION

Hedland EZ-View® flow meters are direct-reading, variable area flow meters that provide instantaneous flow rate measurement without the use of electronics. Constructed with high-impact polysulfone, these flow meters are an industrial class metering solution that maintains structural integrity and is compatible with a wide range of industrial chemicals. Additionally, the transparent, polysulfone plastic body allows visual inspection of fluid condition, useful for preventative maintenance programs and system diagnostics. These flow meters contain a minimum number of moving parts, resulting in a reliable and trouble-free flow rate indicator.

FEATURES

- Special piping or flow straighteners are not required
- Installs in any position
- No electronics needed for flow indication
- Direct reading
- Easy-to-read linear scale
- Special scales available
- Calibrated for 1.0 or 0.876 Specific Gravity

OPERATING PRINCIPLE

A Hedland variable area flow meter is a piston-type flow meter, which on a basic level, consists of a piston, a contoured metering cone and a calibrated flow spring. Traditional designs (referred to as rotameters) are also variable area flow meters, consisting of a float within a tapered metering tube. Unlike a traditional rotameter, Hedland flow meters can be mounted in any orientation without sacrificing measurement performance.

A sharp-edged orifice is located within the piston assembly and forms an annular opening with a contoured metering cone. A calibrated spring holds the piston in a no-flow position at the base of the cone. During a flow condition, pressure increases across the orifice, causing the piston assembly to move precisely in direct response to changing flow rates. Flow rate is determined by viewing the indicator ring mounted on the piston, relative to a printed flow scale affixed to the flow meter body.

MATERIALS OF CONSTRUCTION

Body, Piston and Cone*	Polysulfone
Spring*	302 Stainless Steel
Flow Indicator*	Red Silicone O-Ring
Fittings*	RoHS Compliant Brass or PVC
Fitting O-Rings*	Buna-N (Nitrile)
Limit Indicators	Polypropylene

*Indicates wetted material

NOTE: For material compatibility and data sheets, consult factory.



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FITTINGS/THREADS COMPLIANCE

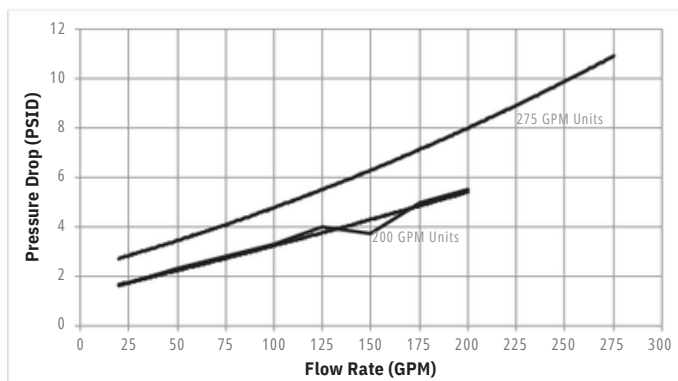
NPTF Dryseal (Female)	ANSI/ASME B1.20.1
BSPP (Female)	ISO 228
BSPT (Female)	ISO R7

SPECIFICATIONS

Accuracy	±5% of Full Scale
Repeatability	±1%
Temperature Range	32...250° F (0...121° C)*
Pressure Rating	325 PSI (22.4 BAR)

*PVC fittings have a temperature range of 32...140° F (0...60° C) and pressure ratings per PVC system specification.

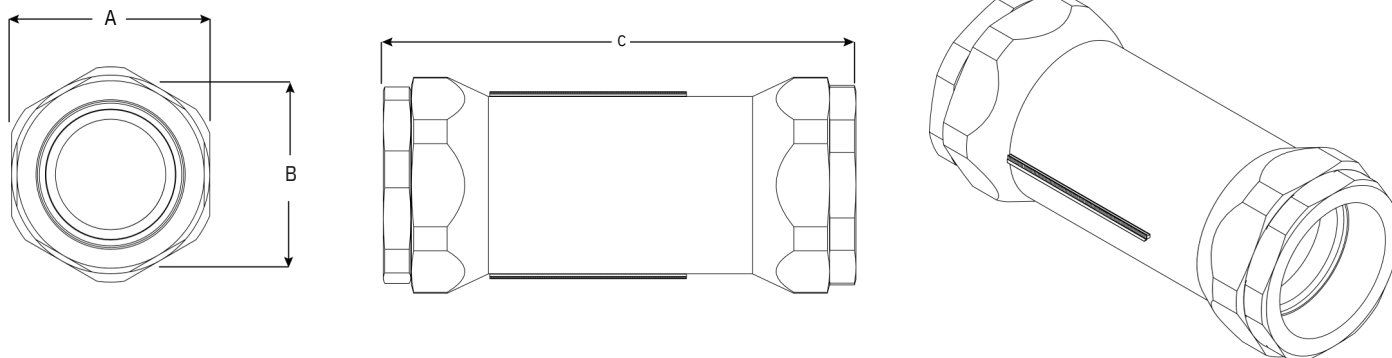
PRESSURE DROP



Product Data Sheet



DIMENSIONS



Size and Type	A Body Flats in. (mm)	B Fitting Flats in. (mm)	C Lay Length in. (mm)
H915 and H916 (2-1/2 in. NPTF and BSPP)	4.50 (114.30)	4.25 (107.95)	10.5 (266.70)
H917 and H918 (3 in. NPTF and BSPT)	4.50 (114.30)	4.25 (107.95)	10.5 (266.70)
H919 (3 in. Socket Weld)	4.50 (114.30)	Contact Factory	Contact Factory

PART NUMBER CONSTRUCTION

Hedland Flow Meters

EZ-View®

NOMINAL PORT SIZE & TYPE

2-1/2 in. NPTF (Female), Brass Fitting
 2-1/2 in. BSPP (Female), Brass Fitting**
 3 in. NPTF (Female), Brass Fitting
 3 in. BSPT (Female), Brass Fitting**
 3 in. Socket Weld, PVC Fitting**



FLUID MEDIA

Water (1.0 S.G.)
 Oil (0.876 S.G.)

FLOW RANGE / SCALE

20.0...200 US GPM / 75.0...760 LPM
 25.0...275 US GPM / 95...1000 LPM

RESERVED

Reserved

91
 5
 91
 6
 91
 7
 91 0
 8 1
 91
 9
 2
 0
 2
 7 R

** Consult factory for pricing and delivery estimates



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