

# HEDLAND®

## *EZ-View® Flow Meters*

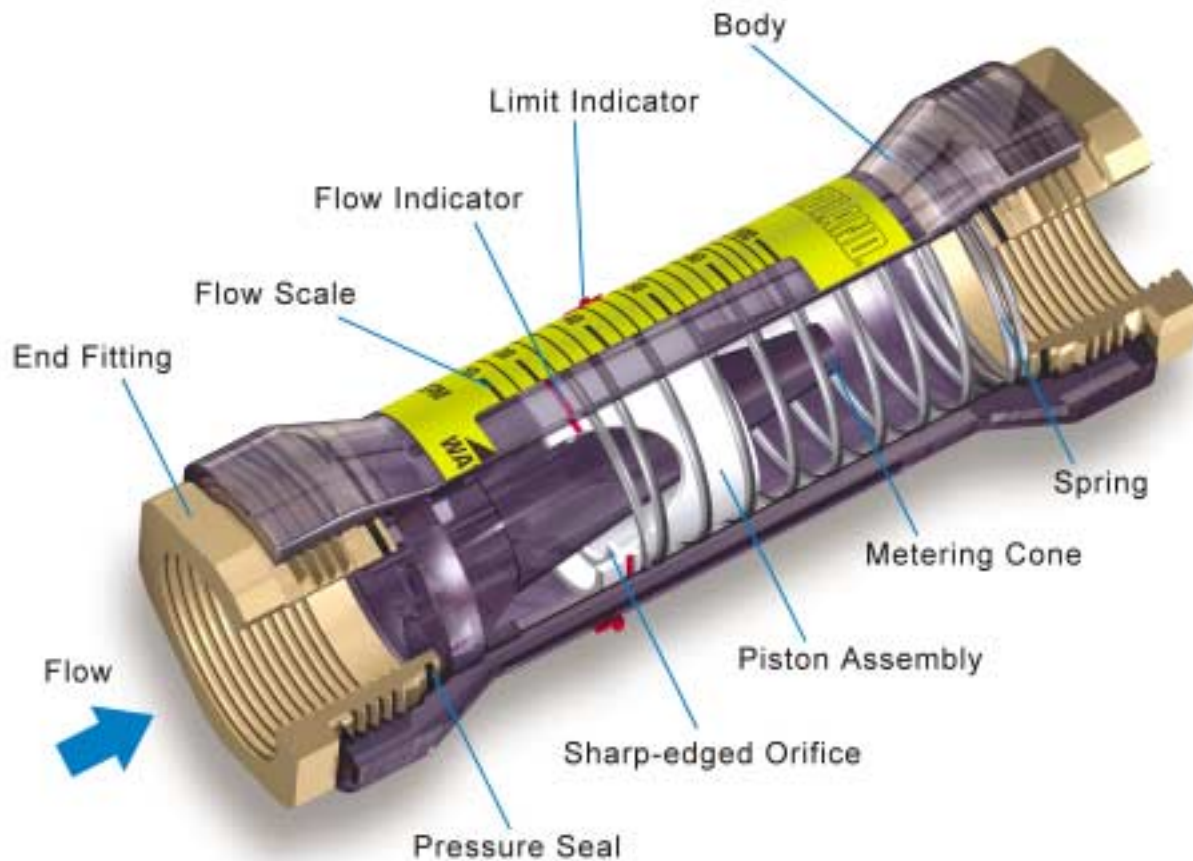


ISO  
CERTIFIED  
9001

1-800-HEDLAND

# EZ-View® Flow Meters

## General Design Features



### OPERATING PRINCIPLE

The EZ-View Flow Meter is a variable-area instrument. A precision-molded, sharp-edged Orifice, located within the Piston Assembly, forms an annular opening with the Metering Cone. Flow through the meter creates a pressure differential across the sharp-edged orifice, moving the piston against the Spring. The piston moves precisely, in direct proportion to the rate of flow. The calibrated spring opposes flow in the forward direction. This spring decreases viscosity sensitivity and allows the flow meters to be used in any position, including inverted. The indicated flow rate is measured by viewing the red indicator line on the piston relative to the precalibrated numerical scale, mounted on the outer surface of the transparent flow meter body.

**Note:** The piston assembly carries a cylindrical magnet on all EZ-View Flow Alert models. This magnet is necessary to activate the AC, DC or Reed switch modules when flow conditions are too high or too low.

**Operates in any position:** The Hedland In-line flow meter's unique spring loaded variable-area design allows meters to be installed in any position without affecting accuracy. It can be installed into horizontal or vertical lines, or with an optional inverted flow scale, this meter can monitor flow in a downward flowing (i.e. gravity feed) line.

**Easy-to-read scale:** This flow meter is the most readable product in its class. A brightly colored flow scale contains bold, easy-to-read

numerals and gauge marks. This enhanced resolution virtually eliminates parallax problems associated with competitive, direct reading flow meters.

**Accuracy within  $\pm 5\%$  full scale:** The EZ-View Flow Meter accuracy is within  $\pm 5\%$  of full scale while monitoring liquids and gases with viscosity and specific gravity similar to factory calibrated fluids.

**Repeatability within  $\pm 1\%$ :** This is particularly important in cyclical applications, which require consistent readings.

**Operating Temperature:** Maximum operating temperature is 250 °F (121 °C)

**Operating Pressure:**

**Liquid:** Maximum operating pressure is 325 psi/22.4 bar.

**Air/Gases:** Maximum operating pressure is 125 psi/8.6 bar.

**Rugged Construction:** Flow meters are available in brass, stainless, and PVC fittings, with NPT or BSP ports (see ordering information table). Constructed of high-impact polysulfone plastic, this simple variable-area flow meter contains a minimum number of moving parts, offering you a reliable, trouble-free flow rate indicator to monitor a wide range of liquids and gases.

**Note:** Inlet and outlet pipe supports are recommended to prevent breakage.

# EZ-View® Flow Meters

## General Design Features

**No flow straighteners or special piping:** The Hedland design does not require special plumbing or accessories to stabilize turbulent flow. Flow meters can be installed immediately adjacent to 90-degree elbows or other components providing system design flexibility.

**Filtration:** Although Hedland flow meters are more contamination-tolerant than most fluid system components, 200 mesh (74 micron) or better filtration is required to assure reliable performance.

**Standard flow scales:**

**Liquid:** Standard liquid flow scales are calibrated in gallons per minute (gpm) and liters per minute (lpm) at 0.876 specific gravity for petroleum-based fluids, 1.0 specific gravity for water and water-based emulsions.

**Air/Gases:** Standard pneumatic flow scales are calibrated in standard cubic feet per minute (scfm) and liters per second (lps) at 1.0 specific gravity at 70 °F at 100 psi (21 °C at 6.9 bar).

**Special flow scales:** Special scales are available for liquids and gases in any measurement unit and/or specific gravity.

**Viscosity Effect (SUS/cSt):** Hedland's design utilizes a precision-molded, sharp-edged orifice and biasing calibration spring that assures operating stability and accuracy over the wide viscosity range common to many fluids. Generally, high flow models provide good accuracy over a viscosity range of 40 to 500 SUS (4.2 to 108 cSt.).

**Density Effect (specific gravity):** Any fluid density change from stated standards has a square-root effect on meter accuracy. Special scales can be supplied if actual specific gravity decreases accuracy beyond application limits.

Corrections for more or less dense fluids can be made to standard scales using correction equations. Refer to Hedland Catalog #140-2G – pages 4-6.

**Fluid Selection Chart**

Fluid	Specific Gravity	Correction Factor of Standard Scale		Internal Components				Fittings			
				Polysulfone	T300 Stainless Spring	Buna N	PH15 7 MO Stainless Retaining Ring	C360 Brass	PVC - Type 1	T303 Stainless	
											Oil
Acetic Acid (Air Free)	1.06	0.909	0.971	R	R	C	R	N	R	R	
Acetone	0.79	1.053	1.125	N	R	N	R	R	N	R	
Alcohol Butyl (Butanol)	0.83	1.027	1.098	R	R	R	R	C	R	R	
Alcohol Ethyl (Ethanol)	0.83	1.027	1.098	R	R	N	R	C	R	R	
Ammonia	0.89	0.992	1.060	R	R	C	R	C	R	R	
Benzene	0.69	1.127	1.204	N	N	N	N	R	N	N	
Carbon Disulphide	1.26	0.834	0.891	N	R	N	R	N	N	R	
Castor Oil	0.97	0.950	1.015	C	C	R	C	R	C	C	
Cotton Seed Oil	0.93	0.970	1.037	R	R	R	R	R	N	R	
Ethylene Glycol 50/50	1.12	0.884	0.945	R	R	R	R	R	R	R	
Freon II	1.46	0.774	0.828	N	R	N	R	R	N	R	
Gasoline	0.70	1.119	1.195	R	R	R	R	R	C	R	
Glycerin	1.26	0.834	0.891	R	R	R	R	R	R	R	
Kerosene	0.82	1.033	1.104	R	R	R	R	R	R	R	
Liquid Propane (LPG)	0.51	1.310	1.400	N	R	R	R	R	R	R	
Mineral Oil	0.92	0.976	1.042	R	R	R	R	R	R	R	
Naphtha	0.76	1.074	1.147	N	R	R	R	N	N	R	
Perchloroethylene	1.62	0.735	0.786	N	R	R	R	N	N	R	
Petroleum Oil	0.876	1.000	1.068	R	R	R	R	R	R	R	
Phosphate Ester	1.18	0.862	0.921	N	R	N	R	R	N	R	
Phosphate Ester Base	1.26	0.833	0.891	N	R	N	R	R	N	R	
Phosphoric Acid (Air Free)	1.78	0.701	0.749	R	N	C	N	N	R	N	
Sea Water	1.03	0.922	0.985	R	N	R	N	N	R	N	
Synthetic Petroleum Base	1.00	0.936	1.000	R	R	R	R	C	R	R	
Water	1.00	0.936	1.000	R	R	R	R	R	R	R	
Water Glycol 50/50	1.07	0.905	0.967	R	R	R	R	R	R	R	
Water-in-oil	0.93	0.970	1.037	R	R	R	R	R	R	R	
Air/Compressed Gas											
Air	1.00	1.000		R	R	R	R	R	R	R	
Argon (A)	1.38	1.175		R	R	R	R	R	R	R	
Carbon Dioxide (CO <sub>2</sub> )	1.53	1.237		R	R	R	R	R	R	R	
Freon 11 (CCl <sub>3</sub> F)	4.92	2.218		N	R	N	R	R	N	R	
Freon 12 (CCl <sub>2</sub> F)	4.26	2.060		N	R	N	R	R	N	R	
Helium (HE)	0.14	0.374		C	R	R	R	R	R	R	
Hydrogen (H <sub>2</sub> )	0.07	0.265		C	R	R	R	R	N	R	
Natural Gas	0.60	0.775		R	R	R	R	C	R	R	
Nitrogen (N <sub>2</sub> )	0.97	0.985		R	R	R	R	R	R	R	
Oxygen (O <sub>2</sub> )	1.10	1.049		R	R	R	R	R	R	R	
Propane (C <sub>3</sub> H <sub>8</sub> )	1.57	1.253		N	R	R	R	R	R	R	

R – Recommended N – Not Recommended C – Consult Factory

# EZ-View® Flow Meters

## For Oil, Water, Air & Compressed Gases

- 1/2 to 1 inch ports
- EZ to install, in any position
- No special piping or flow straighteners needed
- No electrical connections
- Direct reading indication accuracy within  $\pm 5\%$  F.S.
- Insensitive to shock and vibration

### SPECIFICATIONS:

#### MATERIALS:

Polysulfone plastic body, piston and cone  
 T300-series stainless spring  
 Buna-N flow indicator ring and pressure seals  
 C360 Brass, PVC, or T303 stainless fittings  
 Polypropylene limit indicators  
 PH15 – 7MO stainless retaining ring

**FITTINGS/ THREADS:** NPT ANSI/ASME B1.20.1, BSPT ISO228

See Ordering Information Table, page 5

**TEMPERATURE RANGE:** 32 °F to 250 °F (0 °C to 121 °C)

**PRESSURE RATING:** Liquid: 325 psi / 22.4 bar maximum;

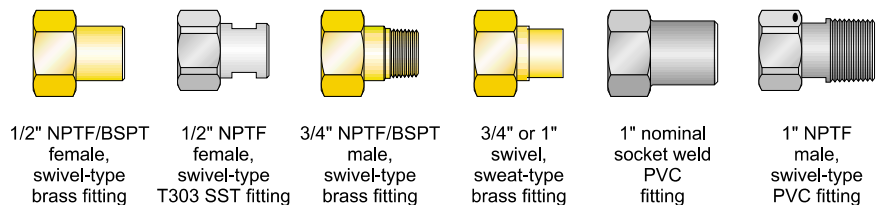
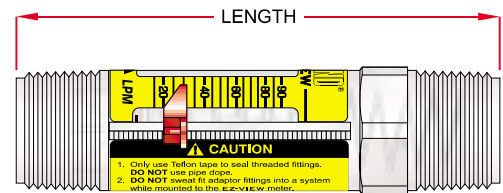
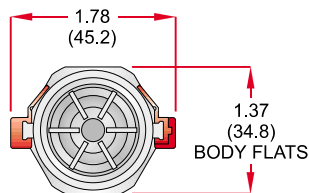
Air/Gases: 125 psi / 8.6 bar maximum

**PRESSURE DROP:** See Differential Pressure Charts, page 5.

**ACCURACY:**  $\pm 5\%$  of full scale reading

**REPEATABILITY:**  $\pm 1\%$

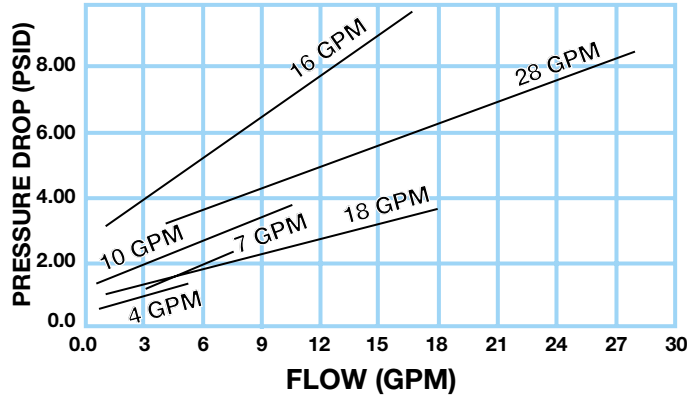
**DIMENSIONS:** See ordering information table, page 5



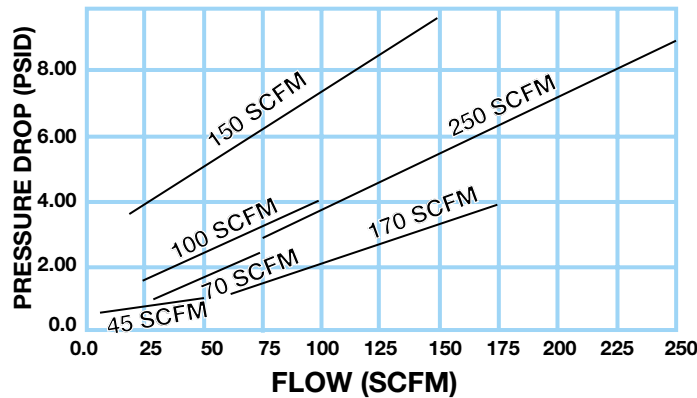
# EZ-View® Flow Meters

## For Oil, Water, Air & Compressed Gases

### OIL & WATER METERS



### AIR METERS



### Ordering Information

Fluid Media	Flow Range		1/2" NPTF female, swivel-type brass fitting	1/2" NPTF female, swivel-type T303 SS fitting	1/2" BSPT female, swivel-type brass fitting	3/4" NPTF male, swivel-type brass fitting	3/4" BSPT male, swivel-type brass fitting	3/4 or 1 inch <sup>①</sup> nominal, sweat-type brass fitting swivel	1" NPTF <sup>②</sup> male, plastic polysulfone fitting	1" nominal <sup>③</sup> socket weld PVC fitting	1" NPTF male, swivel-type PVC fitting
Oil 0.876 s.g.	0.5 – 4 GPM	2 – 15 LPM	H624-104	H626-104	H627-104	H625-104	H630-104		H621-104		H629-104
	1.0 – 7 GPM	4 – 26 LPM	H624-107	H626-107	H627-107	H625-107	H630-107		H621-107		H629-107
	1.0 – 10 GPM	4 – 35 LPM	H624-110	H626-110	H627-110	H625-110	H630-110		H621-110		H629-110
	1.0 – 16 GPM	5 – 60 LPM	H624-116	H626-116	H627-116	H625-116	H630-116		H621-116		H629-116
	3.0 – 18 GPM	15 – 65 LPM				H625-118	H630-118		H621-118		H629-118
4.0 – 28 GPM	20 – 100 LPM				H625-128	H630-128		H621-128		H629-128	
Water 1.0 s.g.	0.5 – 4 GPM	2 – 15 LPM	H624-004	H626-004	H627-004	H625-004	H630-004	H620-004	H621-004	H628-004	H629-004
	1.0 – 7 GPM	4 – 26 LPM	H624-007	H626-007	H627-007	H625-007	H630-007	H620-007	H621-007	H628-007	H629-007
	1.0 – 10 GPM	4 – 35 LPM	H624-010	H626-010	H627-010	H625-010	H630-010	H620-010	H621-010	H628-010	H629-010
	1.0 – 16 GPM	5 – 60 LPM	H624-016	H626-016	H627-016	H625-016	H630-016	H620-016	H621-016	H628-016	H629-016
	3.0 – 18 GPM	15 – 65 LPM				H625-018	H630-018	H620-018	H621-018	H628-018	H629-018
4.0 – 28 GPM	20 – 100 LPM				H625-028	H630-028	H620-028	H621-028	H628-028	H629-028	
Air 1.0 s.g.	10 – 45 SCFM	5 – 20 LPS	H624-204	H626-204	H627-204	H625-204	H630-204		H621-204		H629-204
	20 – 70 SCFM	10 – 30 LPS	H624-207	H626-207	H627-207	H625-207	H630-207		H621-207		H629-207
	25 – 100 SCFM	15 – 45 LPS	H624-210	H626-210	H627-210	H625-210	H630-210		H621-210		H629-210
	30 – 150 SCFM	20 – 70 LPS	H624-216	H626-216	H627-216	H625-216	H630-216		H621-216		H629-216
	55 – 170 SCFM	30 – 80 LPS				H625-218	H630-218		H621-218		H629-218
75 – 250 SCFM	35 – 110 LPS				H625-228	H630-228		H621-228		H629-228	
DIMENSIONS:	Length <sup>④</sup> in (mm)		7.75 (196.8)	7.75 (196.8)	7.75 (196.8)	8.25 (209.5)	8.25 (209.5)	7.75 (196.8)	5.25 (133.3)	8.46 (214.9)	8.86 (225.0)
	Fitting Flats in (mm)		1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	N/A	1.54 (39.1)	1.50 (38.1)
	Weight lb (Kg)		0.95 (0.43)	0.85 (0.39)	0.95 (0.43)	0.90 (0.41)	0.90 (0.41)	0.75 (0.34)	0.20 (0.09)	0.35 (0.16)	0.55 (0.25)

① Fits 3/4" copper tube types K, L, M; 1" copper tube type M only

② DO NOT use pipe dope. Use Teflon tape only. Use with plastic pipe fittings only.

③ Fits 1" Sch 40/80 PVC, CPVC pipe. Requires 1" pipe coupling.

④ Length includes end fittings

# EZ-View® Flow Meters

## With Flow-Alert® Flow-Switch

- New Reed Switch design
- Automatically signals alarm, if flow is too high or too low
- Models available for AC or DC power supply
- Latching models include Hirschmann type electrical connector
- Easy to install
- Easy flow limit adjustment
- Operates in any position
- Insensitive to shock and vibration
- Repeatability within  $\pm 1\%$
- Low cost

### SPECIFICATIONS:

#### MATERIALS:

Polysulfone plastic body, piston and cone  
 T300-series stainless spring  
 Buna-N flow indicator ring and pressure seals  
 C360 Brass, PVC, or T303 stainless fittings  
 Polypropylene limit indicators  
 Strontium Ferrite magnet  
 PH15 – 7MO stainless retaining ring

**FITTINGS/ THREADS:** NPT ANSI/ASME B1.20.1, BSPT ISO228

See Ordering Information Table, page 7

**TEMPERATURE RANGE:** 32 °F to 250 °F (0 °C to 121 °C)

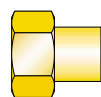
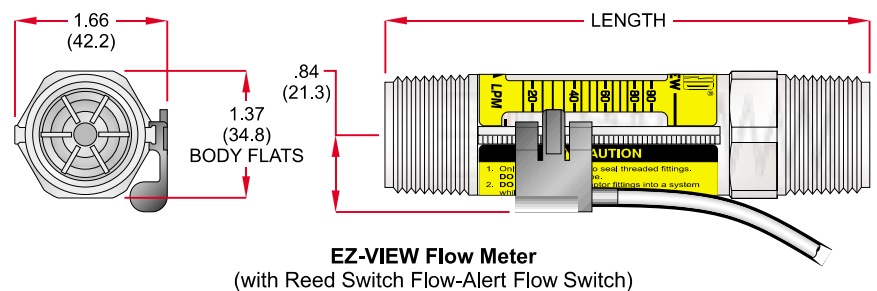
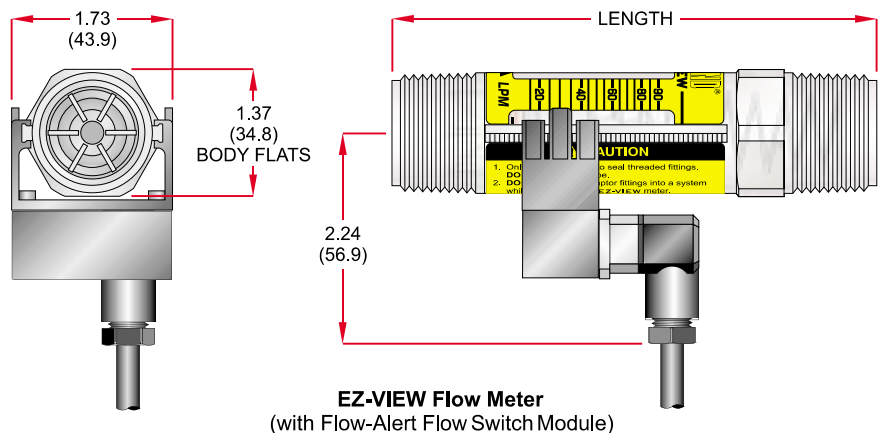
**PRESSURE RATING:** Liquid: 325 psi / 22.4 bar maximum;  
 Air/Gases: 125 psi / 8.6 bar maximum

**PRESSURE DROP:** See Differential Pressure Charts, page 5.

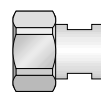
**ACCURACY:**  $\pm 5\%$  of full scale reading

**REPEATABILITY:**  $\pm 1\%$

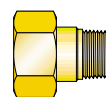
**DIMENSIONS:** See ordering information table, page 7



1/2" NPTF/BSPT  
 female,  
 swivel-type  
 brass fitting



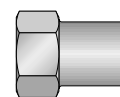
1/2" NPTF  
 female,  
 swivel-type  
 T303 SST fitting



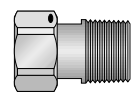
3/4" NPTF/BSPT  
 male,  
 swivel-type  
 brass fitting



3/4" or 1"  
 swivel,  
 sweat-type  
 brass fitting



1" nominal  
 socket weld  
 PVC  
 fitting



1" NPTF  
 male,  
 swivel-type  
 PVC fitting

# EZ-View® Flow Meters

## With Flow-Alert® Flow-Switch

### Flow Switch Options and Specifications:

The AC and DC powered Flow-Alert Flow Switch modules consist of a latching relay circuit housed in a sealed polypropylene enclosure. The modules have a normally open dry relay contact that can be used to directly control alarms, warning lights, relays or be used to interface to a PLC. The relay will be latched on as the magnet inside the flow meter passes by the module, and remain latched on until the magnet passes in the other direction or power is interrupted. The set point is adjustable from 0 to 100% of full scale.

The Reed Switch Flow-Alert modules are housed in a sealed polypropylene enclosure. The reed switch module does not provide the latching function like the AC and DC powered units. When the magnet inside the flow meter comes within proximity of the module, the reed switch will change state. The set point is adjustable from 0 to 100% full scale. Two reed switches provide low flow and high flow set points may be installed on a single flow meter.

	AC Latching	DC Latching	Reed Switch Form-A Normally Open (NO)	Reed Switch Form-B Normally Closed (NC)	Reed Switch Form-C
Operating Voltage	115 VAC ±10%	10-30 VDC	–	–	–
Operating Current	25 mA maximum	25 mA maximum	–	–	–
Contact Rating	1A @ 30 VDC 0.5A @ 125 VAC Resistive Load	1A @ 30 VDC 0.5A @ 125 VAC Resistive Load	1A @ 200 VDC Resistive Load	.25A @ 175 VDC Resistive Load	.25A @ 175 VDC Resistive Load
Operating Temperature	32 to 158 °F (0 to 70 °C)	32 to 158 °F (0 to 70 °C)	32 to 250 °F (0 to 125 °C)	32 to 250 °F (0 to 125 °C)	32 to 250 °F (0 to 125 °C)
Connector	4-pin water-tight connector	4-pin water-tight connector	–	–	–
Cable	Not Included	Not Included	3 foot, 2-wire #24 AWG black PVC Jacketed pig-tail	3 foot, 2-wire #20 AWG grey PVC Jacketed pig-tail	3 foot, 3-wire #24 AWG grey PVC Jacketed pig-tail
Rating	NEMA 12 & 13 (IP65)	NEMA 12 & 13 (IP65)	NEMA 12 & 13 (IP65)	NEMA 12 & 13 (IP65)	NEMA 12 & 13 (IP65)
Certification	N/A	CE	CE	CE	CE
Model Number	H526-003	H526-005	H526-008-NO	H526-008-NC	H526-008

NOTE: Flow switches and flow meters sold separately

### Ordering Information

Fluid Media	Flow Range	1/2" NPTF female, swivel-type brass fitting	1/2" NPTF female, swivel-type T303 SS fitting	1/2" BSPT female, swivel-type brass fitting	3/4" NPTF male, swivel-type brass fitting	3/4" BSPT male, swivel-type brass fitting	3/4 or 1 inch <sup>①</sup> nominal, sweat-type brass fitting swivel	1" NPTF <sup>②</sup> male, plastic polysulfone fitting	1" nominal <sup>③</sup> socket weld PVC fitting	1" NPTF male, swivel-type PVC fitting
		Oil 0.876 s.g.	0.5 – 4 GPM 1.0 – 7 GPM 1.0 – 10 GPM 1.0 – 16 GPM 3.0 – 18 GPM 4.0 – 28 GPM	2 – 15 LPM 4 – 26 LPM 4 – 35 LPM 5 – 60 LPM 15 – 65 LPM 20 – 100 LPM	H624-704 H624-707 H624-710 H624-716	H626-704 H626-707 H626-710 H626-716	H627-704 H627-707 H627-710 H627-716	H625-704 H625-707 H625-710 H625-716 H625-718 H625-728	H630-704 H630-707 H630-710 H630-716 H630-718 H630-728	H621-704 H621-707 H621-710 H621-716 H621-718 H621-728
Water 1.0 s.g.	0.5 – 4 GPM 1.0 – 7 GPM 1.0 – 10 GPM 1.0 – 16 GPM 3.0 – 18 GPM 4.0 – 28 GPM	2 – 15 LPM 4 – 26 LPM 4 – 35 LPM 5 – 60 LPM 15 – 65 LPM 20 – 100 LPM	H624-604 H624-607 H624-610 H624-616	H626-604 H626-607 H626-610 H626-616	H627-604 H627-607 H627-610 H627-616	H625-604 H625-607 H625-610 H625-616 H625-618 H625-628	H630-604 H630-607 H630-610 H630-616 H630-618 H630-628	H620-604 H620-607 H620-610 H620-616 H620-618 H620-628	H628-604 H628-607 H628-610 H628-616 H621-618 H628-628	H629-604 H629-607 H629-610 H629-616 H629-618 H629-628
Air 1.0 s.g.	10– 45 SCFM 20– 70 SCFM 25– 100 SCFM 30– 150 SCFM 55– 170 SCFM 75– 250 SCFM	5 – 20 LPS 10 – 30 LPS 15 – 45 LPS 20 – 70 LPS 30 – 80 LPS 35 – 110 LPS	H624-504 H624-507 H624-510 H624-516	H626-504 H626-507 H626-510 H626-516	H627-504 H627-507 H627-510 H627-516	H625-504 H625-507 H625-510 H625-516 H625-518 H625-528	H630-504 H630-507 H630-510 H630-516 H630-518 H630-528	H621-504 H621-507 H621-510 H621-516 H621-518 H621-528		H629-504 H629-507 H629-510 H629-516 H629-518 H629-528
DIMENSIONS:										
	Length <sup>④</sup> in (mm)	7.75 (196.8)	7.75 (196.8)	7.75 (196.8)	8.25 (209.5)	8.25 (209.5)	7.75 (196.8)	5.25 (133.3)	8.46 (214.9)	8.86 (225.0)
	Fitting Flats in (mm)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	1.50 (38.1)	N/A	1.54 (39.1)	1.50 (38.1)
	Weight lb (Kg)	0.95 (0.43)	0.85 (0.39)	0.95 (0.43)	0.90 (0.41)	0.90 (0.41)	0.75 (0.34)	0.20 (0.09)	0.35 (0.16)	0.55 (0.25)

① Fits 3/4" copper tube types K, L, M; 1" copper tube type M only

② DO NOT use pipe dope. Use Teflon tape only.

Use with plastic pipe fittings only

③ Fits 1" Sch 40/80 PVC, CPVC pipe. Requires 1" pipe coupling.

④ Length includes end fittings

NOTE: Flow switches and flow meters sold separately

# EZ-View® Flow Meters

## For Oil, Water, Air & Compressed Gases

- 1-1/2 to 2 inch ports
- No special piping or flow straighteners needed
- EZ to install, in any position
- No electrical connections
- Direct reading indication accuracy within  $\pm 5\%$  F.S.
- Insensitive to shock and vibration

### SPECIFICATIONS:

#### MATERIALS:

Polysulfone plastic body, piston and cone  
 T300-series stainless spring  
 Buna-N flow indicator ring and pressure seals  
 C360 Brass, PVC, or T303 stainless fittings  
 Polypropylene limit indicators

**FITTINGS/ THREADS:** NPT ANSI/ASME B1.20.1, BSPP ISO228

See Ordering Information Table, page 9

**TEMPERATURE RANGE:** 32 °F to 250 °F (0 °C to 121 °C)

**PRESSURE RATING:** Liquid: 325 psi / 22.4 bar maximum;

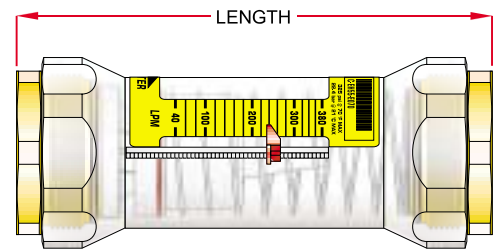
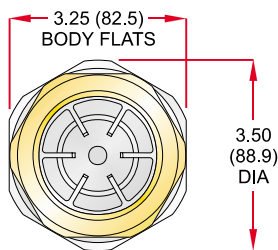
Air/Gases: 125 psi / 8.6 bar maximum

**PRESSURE DROP:** See Differential Pressure Charts, page 9.

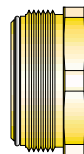
**ACCURACY:**  $\pm 5\%$  of full scale reading

**REPEATABILITY:**  $\pm 1\%$

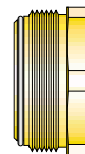
**DIMENSIONS:** See ordering information table, page 9



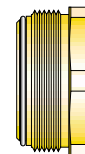
1-1/2" NPTF  
female  
brass fitting



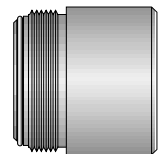
1-1/2" BSPP  
female  
brass fitting



2" NPTF  
female  
brass fitting



2" BSPP  
female  
brass fitting



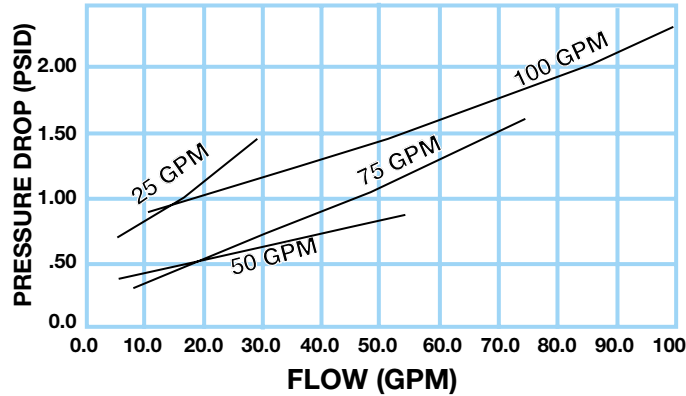
2" PVC  
socket weld-type  
fitting



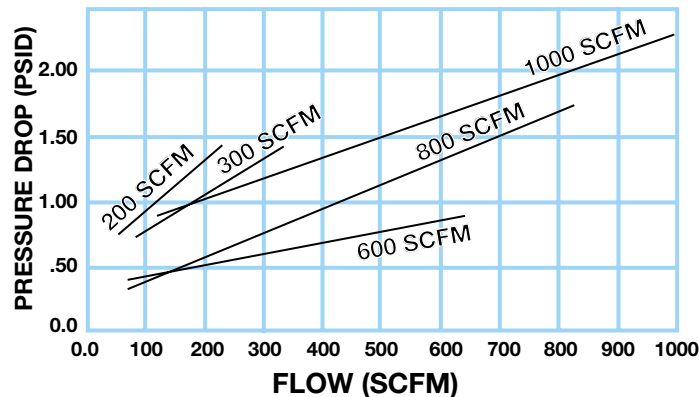
# EZ-View® Flow Meters

## For Oil, Water, Air & Compressed Gases

### OIL & WATER METERS



### AIR METERS



### Ordering Information

Fluid Media	Flow Range		1-1/2" NPTF female, brass fitting	1-1/2" BSPP female, brass fitting	2" NPTF female, brass fitting	2" BSPP female, brass fitting	2" PVC socket weld type fitting <sup>①</sup>
	GPM	LPM					
Oil 0.876 s.g.	2 – 25	10 – 95	H615-125	H616-125	H617-125	H618-125	
	5 – 50	20 – 190	H615-150	H616-150	H617-150	H618-150	
	7 – 75	30 – 280	H615-175	H616-175	H617-175	H618-175	
	10 – 100	40 – 380	H615-110	H616-110	H617-110	H618-110	
Water 1.0 s.g.	2 – 25	10 – 95	H615-025	H616-025	H617-025	H618-025	H619-025
	5 – 50	20 – 190	H615-050	H616-050	H617-050	H618-050	H619-050
	7 – 75	30 – 280	H615-075	H616-075	H617-075	H618-075	H619-075
	10 – 100	40 – 380	H615-010	H616-010	H617-010	H618-010	H619-010
Air 1.0 s.g.	35 – 200	15 – 95	H615-220	H616-220	H617-220	H618-220	
	45 – 300	20 – 140	H615-230	H616-230	H617-230	H618-230	
	60 – 600	25 – 275	H615-260	H616-260	H617-260	H618-260	
	90 – 800	45 – 370	H615-280	H616-280	H617-280	H618-280	
	140 – 1000	75 – 475	H615-210	H616-210	H617-210	H618-210	
DIMENSIONS:	Length <sup>②</sup> in (mm)		8.72 (221.5)	8.72 (221.5)	8.72 (221.5)	8.72 (221.5)	11.48 (291.6)
	Fitting Flats in (mm)		3.00 (76.2)	3.00 (76.2)	3.00 (76.2)	3.00 (76.2)	N/A
	Weight lb (Kg)		4.10 (1.86)	4.10 (1.86)	3.10 (1.41)	3.10 (1.41)	1.70 (0.77)

① Fits 2" Sch 40/80 PVC, CPVC pipe

② Length includes end fitting

# EZ-View® Flow Meters

## With Flow-Alert® Flow-Switch

- New Reed Switch design
- Automatically signals alarm, if flow is too high or too low
- Models available for AC or DC power supply
- Latching model includes Hirschmann type electrical connector
- Easy to install
- Easy flow limit adjustment
- Operates in any position
- Insensitive to shock and vibration
- Repeatability within  $\pm 1\%$
- Low cost

### SPECIFICATIONS:

#### MATERIALS:

Polysulfone plastic body, piston and cone  
 T300-series stainless spring  
 Buna-N flow indicator ring and pressure seals  
 C360 Brass, PVC, or T316 stainless fittings  
 Polypropylene limit indicators  
 Strontium Ferrite magnet

**FITTINGS/ THREADS:** NPT ANSI/ASME B1.20.1, BSPP ISO228

See Ordering Information Table, page 11

**TEMPERATURE RANGE:** 32 °F to 250 °F (0 °C to 121 °C)

**PRESSURE RATING:** Liquid: 325 psi / 22.4 bar maximum;

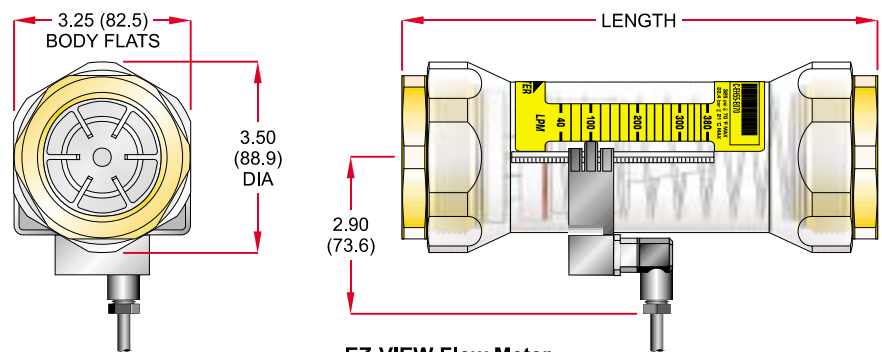
Air/Gases: 125 psi / 8.6 bar maximum

**PRESSURE DROP:** See Differential Pressure Charts, page 9.

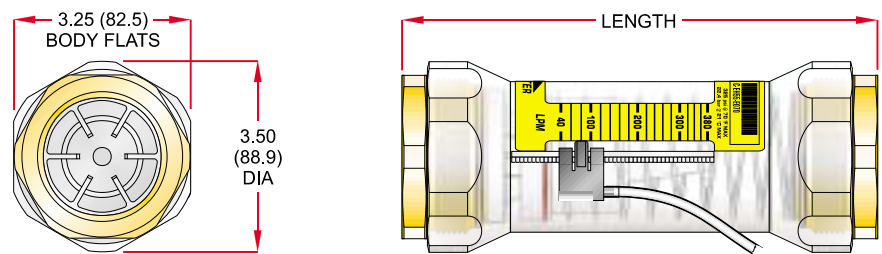
**ACCURACY:**  $\pm 5\%$  of full scale reading

**REPEATABILITY:**  $\pm 1\%$

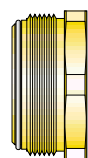
**DIMENSIONS:** See ordering information table, page 11



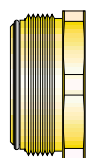
**EZ-VIEW Flow Meter**  
(with Flow-Alert Flow Switch Module)



**EZ-VIEW Flow Meter**  
(with Reed Switch Flow-Alert Flow Switch)



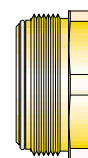
1-1/2" NPTF  
female  
brass fitting



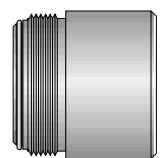
1-1/2" BSPP  
female  
brass fitting



2" NPTF  
female  
brass fitting



2" BSPP  
female  
brass fitting



2" PVC  
socket weld-type  
fitting

# EZ-View® Flow Meters

## With Flow-Alert® Flow-Switch

### Flow Switch Options and Specifications:

The AC and DC powered Flow-Alert Flow Switch modules consist of a latching relay circuit housed in a sealed polypropylene enclosure. The modules have a normally open dry relay contact that can be used to directly control alarms, warning lights, relays or be used to interface to a PLC. The relay will be latched on as the magnet inside the flow meter passes by the module, and remain latched on until the magnet passes in the other direction or power is interrupted. The set point is adjustable from 0 to 100% of full scale.

The Reed Switch Flow-Alert modules are housed in a sealed polypropylene enclosure. The reed switch module does not provide the latching function like the AC and DC powered units. When the magnet inside the flow meter comes within proximity of the module, the reed switch will change state. The set point is adjustable from 0 to 100% full scale. Two reed switches provide low flow and high flow set points may be installed on a single flow meter.

	AC Latching	DC Latching	Reed Switch Form-A Normally Open (NO)	Reed Switch Form-B Normally Closed (NC)	Reed Switch Form-C
Operating Voltage	115 VAC ±10%	10-30 VDC	–	–	–
Operating Current	25 mA maximum	25 mA maximum	–	–	–
Contact Rating	1A @ 30 VDC 0.5A @ 125 VAC Resistive Load	1A @ 30 VDC 0.5A @ 125 VAC Resistive Load	1A @ 200 VDC Resistive Load	.25A @ 175 VDC Resistive Load	.25A @ 175 VDC Resistive Load
Operating Temperature	32 to 158 °F (0 to 70 °C)	32 to 158 °F (0 to 70 °C)	32 to 250 °F (0 to 125 °C)	32 to 250 °F (0 to 125 °C)	32 to 250° F (0 to 125 °C)
Connector	4-pin water-tight connector	4-pin water-tight connector	–	–	–
Cable	Not Included	Not Included	3 foot, 2-wire #24 AWG black PVC Jacketed pig-tail	3 foot, 2-wire #20 AWG grey PVC Jacketed pig-tail	3 foot, 3-wire #24 AWG grey PVC Jacketed pig-tail
Rating	NEMA 12 & 13 (IP65)	NEMA 12 & 13 (IP65)	NEMA 12 & 13 (IP65)	NEMA 12 & 13 (IP65)	NEMA 12 & 13 (IP65)
Certification	N/A	CE	CE	CE	CE
Model Number	H526-004	H526-006	H526-008-NO	H526-008-NC	H526-008

NOTE: Flow switches and flow meters sold separately

### Ordering Information

Fluid Media	Flow Range		1-1/2" NPTF female, brass fitting	1-1/2" BSPP female, brass fitting	2" NPTF female, brass fitting	2" BSPP female, brass fitting	2" PVC socket weld type fitting <sup>①</sup>
	Oil 0.876 s.g.	2 – 25 GPM 5 – 50 GPM 7 – 75 GPM 10 – 100 GPM	10 – 95 LPM 20 – 190 LPM 30 – 280 LPM 40 – 380 LPM	H615-725 H615-750 H615-775 H615-710	H616-725 H616-750 H616-775 H616-710	H617-725 H617-750 H617-775 H617-710	H618-725 H618-750 H618-775 H618-710
Water 1.0 s.g.	2 – 25 GPM 5 – 50 GPM 7 – 75 GPM 10 – 100 GPM	10 – 95 LPM 20 – 190 LPM 30 – 280 LPM 40 – 380 LPM	H615-625 H615-650 H615-675 H615-610	H616-625 H616-650 H616-675 H616-610	H617-625 H617-650 H617-675 H617-610	H618-625 H618-650 H618-675 H618-610	H619-625 H619-650 H619-675 H619-610
Air 1.0 s.g.	35 – 200 SCFM 45 – 300 SCFM 60 – 600 SCFM 90 – 800 SCFM 140 – 1000 SCFM	15 – 95 LPS 20 – 140 LPS 25 – 275 LPS 45 – 370 LPS 75 – 475 LPS	H615-520 H615-530 H615-560 H615-580 H615-510	H616-520 H616-530 H616-560 H616-580 H616-510	H617-520 H617-530 H617-560 H617-580 H617-510	H618-520 H618-530 H618-560 H618-580 H618-510	
DIMENSIONS:	Length <sup>②</sup> in (mm) Fitting Flats in (mm) Weight lb (Kg)		8.72 (221.5) 3.00 (76.2) 4.10 (1.86)	8.72 (221.5) 3.00 (76.2) 4.10 (1.86)	8.72 (221.5) 3.00 (76.2) 3.10 (1.41)	8.72 (221.5) 3.00 (76.2) 3.10 (1.41)	11.48 (291.6) N/A 1.70 (.077)

① Fits 2" Sch 40/80 PVC, CPVC pipe  
② Length includes end fitting

NOTE: Flow switches and flow meters sold separately

# EZ-View® Flow Meters

## In-Line Test Kits

- Simultaneously monitors in-line flow & pressure
- Compact & self-contained
- Mounts in any position
- Easily carried in tool kit

Here is a convenient, low-cost diagnostic tool to help you check flow and pressure simultaneously. Designed to measure in-line flow rates from 0.5 to 28 GPM (3 to 100 LPM), and operating pressures up to 160 psi (11 bar).

This compact, self-contained unit is easy to install, and can be used as a permanent monitoring indicator, or as a temporary troubleshooting tool to help: **check pump leakage under load, verify proper flow, pressure or control settings, locate line restrictions, verify pressure drops and balance multi-line systems.**



### SPECIFICATIONS:

#### MATERIALS:

##### Flow Meter:

Polysulfone plastic body, piston and cone  
T300-series stainless spring  
Buna-N flow indicator ring and pressure seals  
Polypropylene limit indicators  
PH15 – 7MO stainless retaining ring

##### Load Valve:

Polyvinyl Chloride (PVC) type - 1 body  
Polypropylene Ball  
Teflon® Ball Seat  
Ethylene Propylene (EPDM) O-ring

#### FITTINGS/ THREADS:

**Flow Meter:** NPT – 1 inch male / ANSI/ASME B1.20.1

**Load Valve:** NPT – 1 inch female / ANSI/ASME B1.20.1

**TEMPERATURE RANGE:** 32 °F to 150 °F (0 °C to 65.6 °C)

**PRESSURE RATING:** Liquid: 325 psi / 22.4 bar maximum

#### PRESSURE GAUGE:

0 to 160 psi (0 to 11.0 bar) with internal shock dampeners and blowout patch

**PRESSURE DROP:** See Differential Pressure Charts, page 5.

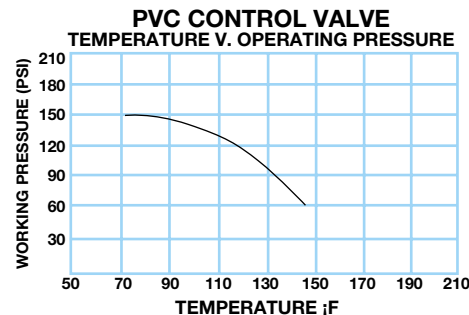
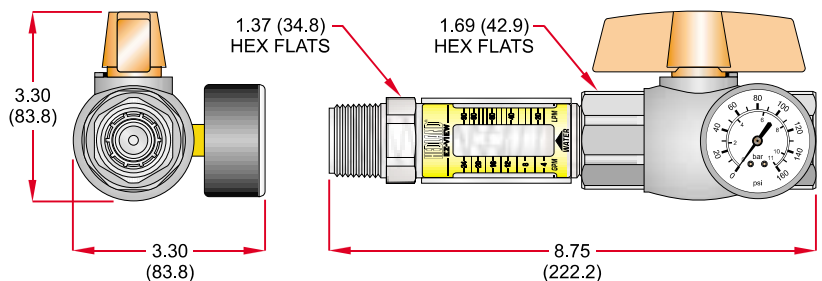
**ACCURACY:** ± 5% of full scale reading

**REPEATABILITY:** ±1%

**DIMENSIONS:** See ordering information table

### Ordering Information

Fluid Media	Flow Range		1" NPTF male/female fitting
Oil 0.876 s.g.	0.5 – 4 GPM	3 – 13 LPM	H623-104
	1.0 – 7 GPM	2 – 26 LPM	H623-107
	1.0 – 10 GPM	5 – 40 LPM	H623-110
	1.0 – 16 GPM	5 – 60 LPM	H623-116
	3.0 – 18 GPM	10 – 70 LPM	H623-118
Water 1.0 s.g.	4.0 – 28 GPM	20 – 100 LPM	H623-128
	0.5 – 4 GPM	3 – 16 LPM	H623-004
	2.0 – 7 GPM	4 – 26 LPM	H623-007
	2.0 – 10 GPM	5 – 35 LPM	H623-010
	2.0 – 16 GPM	5 – 60 LPM	H623-016
DIMENSIONS	4.0 – 18 GPM	15 – 65 LPM	H623-018
	4.0 – 28 GPM	20 – 100 LPM	H623-028
Weight lbs. (kg)		0.80 (0.36)	



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