Seametrics

ISO **9001:2008** CERTIFIED COMPANY

FEATURES

- No moving parts
- Requires no straight pipe
- Pulse and/or 4-20 mA output
- Chemical and corrosion resistant
- Insensitive to fluid density and fluid viscosity changes

APPLICATIONS

- Chemical injection
- Corrosive materials
- Low flow applications
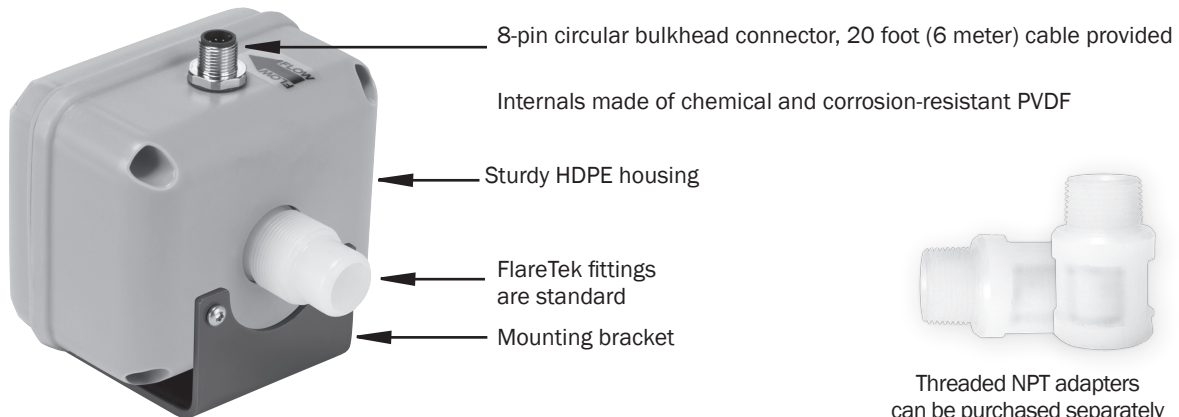- Pulsating flows (e.g., metering pump)

GENERAL INFORMATION

The **PE102 magmeter** is designed for low-flow chemical injection or difficult-to-meter applications with pulsating metering pumps in 3/4" to 1/4" pipe/tube. The housing is made of sturdy splashproof HDPE plastic.

With no moving parts, the PE102 can handle fluids containing particulate matter without clogging or jamming, keeping maintenance at a minimum. With no metallic parts (100% PVDF body and PVDF carbon fiber-filled electrodes), the meter is corrosion-resistant and compatible with a wide range of chemicals. Accuracy is maintained with conductive fluids (>20 microSiemens) of varying viscosities and densities.

The PE meter is compact enough to fit most pump/injection systems. With zero straight pipe required after an elbow, it can be easily mounted in tight spaces. The mounting bracket adds stability.

The PE meter has an optocoupled current sinking pulse output that can be connected to the Seametrics FT420 rate/total display or FT520 batch processor, as well as a 4-20 mA loop for powering analog devices. Outputs and power are provided through a 20 foot (6 meter) cable with 8-pin female circular connector.

FEATURES

8-pin circular bulkhead connector, 20 foot (6 meter) cable provided

Internals made of chemical and corrosion-resistant PVDF

Sturdy HDPE housing

FlareTek fittings are standard

Mounting bracket

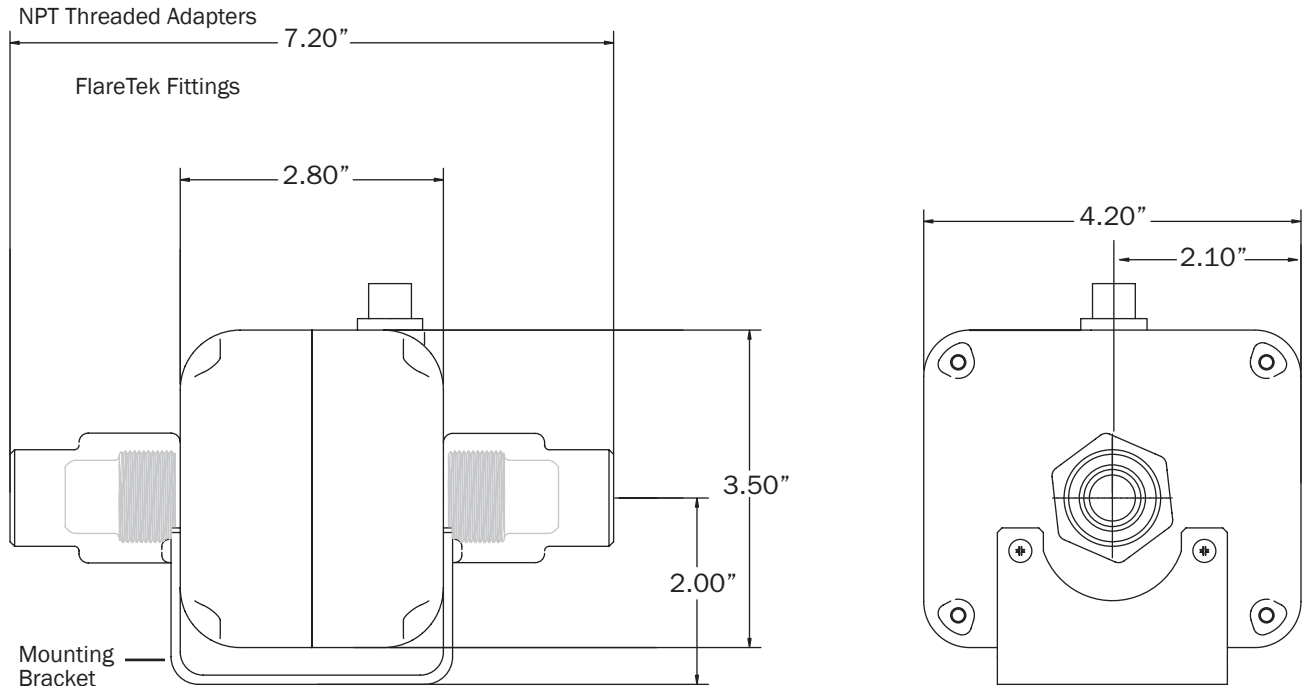Threaded NPT adapters can be purchased separately (available in polypropylene or PVDF, PVDF shown)

SPECIFICATIONS*

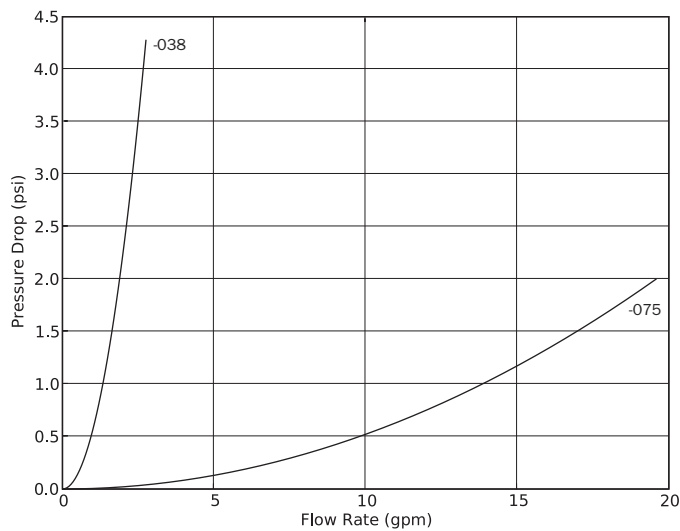|		
Pipe Size		3/4", 1/2", 3/8", 1/4"**
Fittings		FlareTek fittings standard in 3/4" or 3/8" flowbody; NPT threaded adapters also available
Materials	**Body**	PVDF
	Electrodes	PVDF carbon fiber-filled
	Ground	PVDF carbon fiber-filled
	Housing	HDPE with glass fiber
	Fittings (FlareTek)	PVDF
	Adapters (NPT)	Polypropylene or PVDF
	O-Rings (for NPT)	EPDM or Viton
Temperature	**Ambient**	0˚ to 130˚ F (-18˚ to 54˚ C)
	Fluid	32˚ to 200˚ F (0˚ to 93˚ C)
Pressure		150 psi
Flow Range	**-075**	20 GPM Max. (0.2 GPM cut off)
	-038	3 GPM Max. (0.03 GPM cut off)
Accuracy	**-075**	+/- 1% plus +/- 0.005 GPM of reading across rated range
	-038	+/- 1% plus +/- 0.002 GPM of reading across rated range
Output Signal		Optocoupled current sinking or current sourcing pulse output: 30 Vdc, 5 mA max 4-20 mA current loop: 7 Vdc plus load voltage drop min; 50 Vdc max
	-075	PE102-075: 500 pulses/liter (1892 pulses/gallon),
	-038	PE102-038: 1,000 pulses/liter (3785 pulses/gallon).
Power		10-15 Vdc, 150 mA (linear power supply recommended)
Conductivity		>20 microSiemens
Empty Pipe Detection		Hardware/software, conductivity-based
Environmental		NEMA 4X standard; IP 66 Splashproof standard

Specifications subject to change • Please consult our website for current data (www.seametrics.com).

**Requires adaptors*

DIMENSIONS

NPT Threaded Adapters

7.20"

FlareTek Fittings

2.80"

3.50"

2.00"

Mounting
Bracket

4.20"

2.10"

PRESSURE DROP CURVE

PE102-075 with 3/4" adapters.
PE102-038 with 3/8" adapters.
Actual curve dependant on pipe size/fittings

HOW TO ORDER

MODEL	SIZE	FITTINGS
PE102	3/4" = **-075** 3/8" = **-038**	Meter comes standard with FlareTek fittings. NPT Adapters can be added. See below to choose Accessories <u>required</u> with your fitting choice.
PE102		

ACCESSORIES

Rate and Total Indicator = **FT420**

Batch Flow Processor = **FT520**

<u>Required</u> with FlareTek fittings:

-075: 3/4" FlareTek tubing nut (2 req) = **101284**
Flare tool, 3/4" fitting = **101285**

-038: 3/8" FlareTek tubing nut (2 req) = **101689**
Flare tool, 3/8" fitting = **101690**

<u>Required</u> with NPT adapters
(must choose adapter PLUS O-ring material):
-075 PVDF Adapter Kit, 1/2" MNPT EPDM O-Ring (2 ea) = **103270**
-075 PVDF Adapter Kit, 1/2" MNPT Viton® O-Ring (2 ea) = **103271**
-075 Polypro Adapter Kit, 1/2" MNPT EPDM O-Ring (2 ea) = **103272**
-075 Polypro Adapter Kit, 1/2" MNPT Viton® O-Ring (2 ea) = **103273**
-075 PVDF Adapter Kit, 1/2" FNPT EPDM O-Ring (2 ea) = **103274**
-075 PVDF Adapter Kit, 1/2" FNPT Viton® O-Ring (2 ea) = **103275**
-075 Polypro Adapter Kit, 1/2" FNPT EPDM O-Ring (2 ea) = **103276**
-075 Polypro Adapter Kit, 1/2" FNPT Viton® O-Ring (2 ea) = **103277**
-075 PVDF Adapter Kit, 3/4" MNPT EPDM O-Ring (2 ea) = **103278**
-075 PVDF Adapter Kit, 3/4" MNPT Viton® O-Ring (2 ea) = **103279**
-075 Polypro Adapter Kit, 3/4" MNPT EPDM O-Ring (2 ea) = **103280**
-075 Polypro Adapter Kit, 3/4" MNPT Viton® O-Ring (2 ea) = **103281**
-075 Nut, Flaretek , 3/4" (2 Required) (2 ea) = **1032784**
-075 Tool, Flaretek 3/4" (2 ea) = **103285**

-038 PVDF Adapter Kit, 1/4" MNPT, EPDM O-Ring = **103254**
-038 PVDF Adapter Kit, 1/4" MNPT Viton® O-Ring = **103255**
-038 Polypro Adapter Kit, 1/4" MNPT EPDM O-Ring = **103256**
-038 Polypro Adapter Kit, 1/4" MNPT Viton® O-Ring = **103257**
-038 PVDF Adapter Kit, 3/8" MNPT EPDM O-Ring = **103258**
-038 PVDF Adapter Kit, 3/8" MNPT Viton® O-Ring = **103259**
-038 Polypro Adapter Kit, 3/8" MNPT EPDM O-Ring = **103260**
-038 Polypro Adapter Kit, 3/8" MNPT Viton® O-Ring = **103261**
-038 PVDF Adapter Kit, 1/2" MNPT EPDM O-Ring = **103262**
-038 PVDF Adapter Kit, 1/2" MNPT Viton® O-Ring = **103263**
-038 PVDF Adapter Kit, 1/2" FNPT EPDM O-Ring = **103264**
-038 PVDF Adapter Kit, 1/2" FNPT Viton® O-Ring = **103265**
-038 Polypro Adapter Kit, 1/2" FNPT EPDM O-Ring = **103266**
-038 Polypro Adapter Kit, 1/2" FNPT Viton® O-Ring = **103267**
-038 Nut, Flaretek, 0.375" (2 Required) = **101689**
-038 Tool, Flaretek 0.375" = **101690**

CONTACT YOUR SUPPLIER

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