

Trimec Flow Products FD-Series Diesel Flowmeters are designed for common transfer applications involving diesel fuel, including receipt verification, loading, un-loading, distribution and dispensing where custody transfer (weights and measures) is not required. They are suitable for fleet depots, mine sites, construction sites, farms, marine facilities & portable fueling applications. The meters are compact and can be used in both pumped and gravity-fed systems.

### Features /Benefits

- ▶ High accuracy oval gear technology with low pressure drop can be used in gravity-fed applications
- ▶ No requirement for flow conditioning or straight pipe runs makes them ideal for compact installations with limited space
- ▶ Robust aluminium mechanical registers: Litres or USG - do not require power/batteries
- ▶ Electronic displays: Battery or external power Intrinsically safe option
- ▶ Threaded (BSPP, NPT) or flanged (ANSI 150, DIN PN16) connections
- ▶ Optional air eliminator/strainers available for MD-250 and larger



### General Specifications

- ▶ Flow rates: 1 - 2500 L/min [0.26 - 660 USG/min]
  - ▶ Sizes: Y2" - 4" [15mm - 100mm]
  - ▶ Wetted materials\*: Aluminium, stainless steel, hardened steel, PPS, Viton, Nitrile
- \*Typical wetted materials - subject to change and may vary between models
- ▶ Compatible fluids: Diesel, Petrol (mechanical registers or Intrinsically Safe electronic display only), Kerosene, Light Oils.

### Model Specifications

Model	FD-40	FD-150	FD-250	FD-450	FD-580	FD-750	FD-1000	FD-1500	FD-2500
Nominal size	1/2" [15mm]	1" [25mm]	1.5" [40mm]	2" [50mm]	2" [50mm]	3" [80mm]	3" [80mm]	4" [100mm]	4" [100mm]
Nominal Flow range @3cP	1 - 40 L/min	10 - 150 L/min	15 - 250 L/min	30 - 450 L/min	35 - 580 L/min	35 - 750 L/min	50 - 1000 L/min	75 - 1500 L/min	150 - 2500 L/min
	[0.26 - 10.6 USG/min]	[2.6 - 40 USG/min]	[4 - 66 USG/min]	[8 - 120 USG/min]	[9 - 150 USG/min]	[10 - 200 USG/min]	[13 - 260 USG/min]	[20 - 400 USG/min]	[40 - 660 USG/min]
Accuracy	±1% of reading for mechanical registers (±0.5% for electronic display)								
Repeatability	Typically ±0.03% of reading								
Temperature Range	-15°C - +80°C [5°F - +176°F]								
Max. Pressure									
Bar [psi] (threaded)	40 [580]	40 [580]	30 [435]	20 [285]	20 [285]	12 [175]	12 [175]	10 [145]	10 [145]
Mechanical Register (L,G) (Protection Class)	4 digit resettable (IP65)								
Mechanical Register (V) (Protection Class)	N/A			5 digit resettable (IP54)					
Electronic Register (E) (Protection Class)	6 digit (IP65)								
I.S. Electronic Register (I) (Protection Class)	8 digit (IP66/67)								
Recommended filtration	100 mesh (150 microns)					40 mesh (350 microns)			
Face to face dimension - threaded	110 mm	137 mm	188 mm	212 mm	212 mm	266 mm	294 mm	294 mm	320 mm
Face to face dimension - flanged	189 mm	198 mm	252 mm	277 mm	277 mm	354 mm	382 mm	388 mm	414 mm
Meter base to register top dimension (I,G)	178 mm	188 mm	227 mm	237 mm	286 mm	270 mm	288 mm	333 mm	416 mm
Meter base to register top dimension (V)	n/a	n/a	n/a	358 mm	409 mm	395 mm	412 mm	457 mm	535 mm
Meter base to register top dimension (E)	157 mm	171 mm	206 mm	221 mm	271 mm	264 mm	281 mm	326 mm	403 mm
Meter base to register top dimension (I)	154 mm	168 mm	203 mm	218 mm	268 mm	260 mm	277 mm	322 mm	399 mm

Meter cap width	110 mm	120 mm	160 mm	180 mm	180 mm	242 mm	292 mm	292 mm	332 mm
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## FD-Series Electronic Flowmeter

### Model Coding

<b>FD-40</b>	1/2"	(15mm)	1- 40 L/min	[0.26 - 10.6 USG/min]
<b>FD-150</b>	1"	(25mm)	10 - 150 L/min	[2.6- 40 USG/min]
<b>FD-250</b>	1.5"	{40mm}	15 - 250 L/min	[4 - 66 USG/min]
<b>FD-450</b>	2"	(50mm)	30 - 450 L/min	[8 - 120 USG/min]
<b>FD-580</b>	2"	{50mm}	35 - 580 L/min	[9 - 150 USG/min]
<b>FD-750</b>	3"	{80mm}	35 - 750 L/min	[10 - 200 USG/min]
<b>FD1000</b>	3"	{80mm}	50 - 1000 L/min	[13 - 260 USG/min]
<b>FD-1500</b>	4"	{100mm}	75 - 1500 L/min	[20 - 400 USG/min]
<b>FD-2500</b>	4"	{100mm}	150 - 2500 L/min	[40 - 660 USG/min]

Wetted materials\*: Aluminium, stainless steel, hardened steel, PPS, Viton,

Nitrile Flow tested and supplied with statement of conformance

#### Process connections

<b>B</b>	BSPP {G} female threaded
<b>N</b>	NPT female threaded
<b>A</b>	ANSI-150 RF flanged
<b>D</b>	DIN PN16 flanged

#### Registers

<b>L</b>	Mechanical 4 digit - Litres (Al housing)
<b>G</b>	Mechanical 4 digit - USG (Al housing)
<b>V</b>	Mechanical 5 digit - Litres (Al housing) D-450 and above
<b>E</b>	Electronic backlit 6 digit with scaled pulse output {Al housing with face protector}
<b>I</b>	Intrinsically safe 8 digit with all outputs (GRN housing)

#### Integral Options

	Nil
<b>A</b>	*Close-Coupled Air Eliminator/Strainer/Check Valve (not available for D flanges) D-250 and above

\*Shipped separately for field assembly to meter

#### Model No. Example

<b>FD-250</b>	<b>B</b>	<b>L</b>	<b>A</b>
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All Trimec Flow Products FD-Series Diesel flowmeters are flow tested and supplied with a statement of conformance stating that they meet the published accuracy and performance standards.

\*Typical wetted materials - subject to change and may vary between models

Service & Warranty: For technical assistance, warranty replacement contact your Trimec Flow Products distributor in your area.

Authorized Distributor

**Accu-Flo** 1-800-921-2228  
www.accuflo.com