

D-SERIES FUEL FLOWMETER



PRODUCT CONFIGURATION

PRODUCT IDENTIFIER **1**

D-40 = 1/2" (15 mm) 1-40 L/min
D-150 = 1" (25 mm) 10-150 L/min
D-250 = 1.5" (40 mm) 15-250 L/min
D-450 = 2" (50 mm) 30-450 L/min
D-750 = 3" (80 mm) 35-750 L/min
D-1000 = 3" (80 mm) 50-1000 L/min
D-1500 = 4" (100 mm) 75-1500 L/min
D-2500 = 4" (100 mm) 150-2500 L/min

PROCESS CONNECTIONS **2**

B = BSPP (G) female threaded (ISO 228)
N = NPT female threaded
A = ANSI-150 RF flanged
D = DIN PN16 flanged

REGISTERS **3**

L = Mechanical 4-digit - Litres (Al housing)
E = Electronic backlit 6-digit with scaled pulse output (Al housing with face protector)

1 **2** **3**

--->>>> **D-250 B L**

FLOMEC® D-Series Diesel Flow Meters 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. The meters are compact and can be used in both pumped and gravity-fed applications.

FEATURES/BENEFITS

High accuracy oval gear technology with low pressure drop

No requirement for flow conditioning or straight pipe run makes them ideal for compact installations with limited space

Robust aluminium mechanical register option: Litres or GPM - do not require power/batteries

Electronic display option: battery or external power

Threaded (BSPP, NPT) or flanged (ANSI 150, DIN PN16) connections

GENERAL SPECIFICATIONS

- **Flow rates:** 1 - 2500 L/min
- **Sizes:** 1/2" - 4" (15 mm - 100 mm)
- **Wetted materials*:** Aluminium, Stainless Steel, hardened Steel, PPS, Viton, Nitrile
- **Compatible fluids:** Diesel, Kerosene, Light Oils
- **Reed Switch:** Only on electronic version, no pulse output

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

APPLICATIONS

- Fleet Depots
- Mine Sites
- Construction Sites
- Farms
- Marine Facilities
- Portable Fueling Applications

SPECIFICATIONS

	D-40	D-150	D-250	D-450	D-750	D-1000	D-1500	D-2500
Nominal Size:	1/2" [15 mm]	1" [25 mm]	1.5" [40 mm]	2" [50 mm]	3" [80 mm]	3" [80 mm]	4" [100 mm]	4" [100 mm]
Nominal Flow Range* @3cP:	0.26-10.6 GPM	2.6-40 GPM	4-66 GPM	8-120 GPM	10-200 GPM	13-260 GPM	20-400 GPM	40-660 GPM
	1 - 40 L/min	10-150 L/min	15-250 L/min	30-450 L/min	35-750 L/min	50-1000 L/min	75-1500 L/min	150-2500 L/min
Accuracy:	± 1% of reading for mechanical registers (± 1% for electronic display)							
Repeatability:	Typically ± 0.03% of reading							
Temperature Range:	5°F - +176°F (-15°C - +80°C)							
Max. Pressure psi [bar] (threaded):	580 [40]	580 [40]	435 [30]	285 [20]	175 [12]	175 [12]	145 [10]	145 [10]
Mechanical Register (L, G) (Protection Class):	4-digit resettable & NEMA 4 (IP65)							
Mechanical Register (V) (Protection Class):	N/A			5-digit resettable & NEMA 3S (IP54)				
Electronic Register (E) (Protection Class):	6-digit & NEMA 4 (IP65)							
I.S. Electronic Register (I) (Protection Class):	8-digit & NEMA 4x (IP66/67)							
Recommended Filtration:	100 mesh (150 µm)				40 mesh (350 µm)			
Face to face dimension - threaded:	4.33" (110 mm)	5.39" (137 mm)	7.40" (188 mm)	8.35" (212 mm)	10.47" (266 mm)	11.57" (294 mm)	11.57" (294 mm)	12.60" (320 mm)
Face to face dimension - flanged:	7.44" (189 mm)	7.80" (198 mm)	9.92" (252 mm)	10.91" (277 mm)	13.94" (354 mm)	15.04" (382 mm)	15.28" (388 mm)	16.30" (414 mm)
Meter base to register top dimension (L., G)	7.01" (178 mm)	7.40" (188 mm)	8.94" (227 mm)	9.33" (237 mm)	10.63" (270 mm)	11.34" (288 mm)	13.11" (333 mm)	16.38" (416 mm)
Meter base to register top dimension (V)	N/A			14.09" (358 mm)	15.51" (395 mm)	16.22" (412 mm)	17.99" (457 mm)	21.06" 535 mm
Meter base to register top dimension (E)	6.18" (157 mm)	6.73" (171 mm)	8.11" (206 mm)	8.70" (221 mm)	10.39" (264 mm)	11.06" (281 mm)	12.83" (326 mm)	15.87" (403 mm)
Meter base to register top dimension (I)	6.06" (154 mm)	6.61" (168 mm)	7.99" (203 mm)	8.58" (218 mm)	10.24" (260 mm)	10.91" (277 mm)	12.68" (322 mm)	15.71" (399 mm)
Meter cap width	4.33" (110 mm)	4.72" (120 mm)	6.30" (160 mm)	7.09" (180 mm)	9.53" (242 mm)	11.50" (292 mm)	11.50" (292 mm)	13.07" (332 mm)

*Maximum flow reduces as viscosity increases, see flow de-rating guide. Max recommended Pressure drop is 14.5 psi (1 bar).

APPROVALS



