



## PRODUCT CONFIGURATION

### PRODUCT IDENTIFIER 1

**D-40** = 1/2" (15 mm) 0.26 - 10.6 GPM (1-40 L/min)  
**D-150** = 1" (25 mm) 2.6 - 40 GPM (10-150 L/min)  
**D-250** = 1.5" (40 mm) 4 - 66 GPM (15-250 L/min)  
**D-450** = 2" (50 mm) 8 - 120 GPM (30-450 L/min)  
**D-750** = 3" (80 mm) 10 - 200 GPM (35-750 L/min)  
**D-1000** = 3" (80 mm) 13 - 260 GPM (50-1000 L/min)  
**D-1500** = 4" (100 mm) 20 - 400 GPM (75-1500 L/min)  
**D-2500** = 4" (100 mm) 40 - 660 GPM (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)  
**G** = Mechanical 4-digit - USG (Al housing)  
**V** = Mechanical 5-digit - Litres (Al housing) D-450 and above  
**E** = Electronic backlit 6-digit with scaled pulse output (Al housing with face protector)  
**I** = Intrinsically safe 8-digit with all outputs (GRN housing)

### INTEGRAL OPTIONS 4

\_ = None  
**A** = \*Close-Coupled Air Eliminator/Strainer/Check Valve (not available for D flanges) D-250 and above  
 \*Shipped separately for field assembly to meter

1 2 3 4  
 --->>>> D-250 B L A

## D-SERIES DIESEL FLOW METER

**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 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 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, intrinsically safe option
- Threaded (BSPP, NPT) or flanged (ANSI 150, DIN PN16) connections
- Optional air eliminator/strainers available for D-250 and larger

## GENERAL SPECIFICATIONS

- **Flow rates:** 0.26 - 660 GPM (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, Gasoline (Intrinsically Safe electronic display only), 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



The D-Series is designed for Diesel Fuel. Diesel fuel is not considered a flammable fluid in most of the world, but it is in the USA. **The D-Series meter does not have FM Approval and should not be sold for use in the USA.**

## SPECIFICATIONS

|                                                  | D-40                                                                   | D-150             | D-250             | D-450                               | D-750              | D-1000             | D-1500             | D-2500             |
|--------------------------------------------------|------------------------------------------------------------------------|-------------------|-------------------|-------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Nominal Size:                                    | 1/2"<br>[15 mm]                                                        | 1"<br>[25 mm]     | 1.5"<br>[40 mm]   | 2"<br>[50 mm]                       | 3"<br>[80 mm]      | 3"<br>[80 mm]      | 4"<br>[100 mm]     | 4"<br>[100 mm]     |
| Nominal Flow Range* @ 3cP:                       | 0.26-10.6<br>GPM                                                       | 2.6-40<br>GPM     | 4-66<br>GPM       | 8-120<br>GPM                        | 10-200<br>GPM      | 13-260<br>GPM      | 20-400<br>GPM      | 40-660<br>GPM      |
|                                                  | 1 - 40<br>L/min                                                        | 10-150<br>L/min   | 15-250<br>L/min   | 30-450<br>L/min                     | 35-750<br>L/min    | 50-1000<br>L/min   | 75-1500<br>L/min   | 150-2500<br>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"<br>(110 mm)                                                      | 5.39"<br>(137 mm) | 7.40"<br>(188 mm) | 8.35"<br>(212 mm)                   | 10.47"<br>(266 mm) | 11.57"<br>(294 mm) | 11.57"<br>(294 mm) | 12.60"<br>(320 mm) |
| Face to face dimension - flanged:                | 7.44"<br>(189 mm)                                                      | 7.80"<br>(198 mm) | 9.92"<br>(252 mm) | 10.91"<br>(277 mm)                  | 13.94"<br>(354 mm) | 15.04"<br>(382 mm) | 15.28"<br>(388 mm) | 16.30"<br>(414 mm) |
| Meter base to register top dimension (L, G)      | 7.01"<br>(178 mm)                                                      | 7.40"<br>(188 mm) | 8.94"<br>(227 mm) | 9.33"<br>(237 mm)                   | 10.63"<br>(270 mm) | 11.34"<br>(288 mm) | 13.11"<br>(333 mm) | 16.38"<br>(416 mm) |
| Meter base to register top dimension (V)         | N/A                                                                    |                   |                   | 14.09"<br>(358 mm)                  | 15.51"<br>(395 mm) | 16.22"<br>(412 mm) | 17.99"<br>(457 mm) | 21.06"<br>535 mm   |
| Meter base to register top dimension (E)         | 6.18"<br>(157 mm)                                                      | 6.73"<br>(171 mm) | 8.11"<br>(206 mm) | 8.70"<br>(221 mm)                   | 10.39"<br>(264 mm) | 11.06"<br>(281 mm) | 12.83"<br>(326 mm) | 15.87"<br>(403 mm) |
| Meter base to register top dimension (I)         | 6.06"<br>(154 mm)                                                      | 6.61"<br>(168 mm) | 7.99"<br>(203 mm) | 8.58"<br>(218 mm)                   | 10.24"<br>(260 mm) | 10.91"<br>(277 mm) | 12.68"<br>(322 mm) | 15.71"<br>(399 mm) |
| Meter cap width                                  | 4.33"<br>(110 mm)                                                      | 4.72"<br>(120 mm) | 6.30"<br>(160 mm) | 7.09"<br>(180 mm)                   | 9.53"<br>(242 mm)  | 11.50"<br>(292 mm) | 11.50"<br>(292 mm) | 13.07"<br>(332 mm) |

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

## APPROVALS



**NEMA**  
3S / 4X

**IP54-67**



**Not Available in the U.S.A.**

**Service & Warranty:** For technical assistance, warranty replacement or repair contact your **FLOMEC®** or **GPI®** distributor: In North or South America: **888-996-3837 / FLOMEC.net**  
Outside North or South America: **+61 2 9540 4433 / FLOMEC.net**

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

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