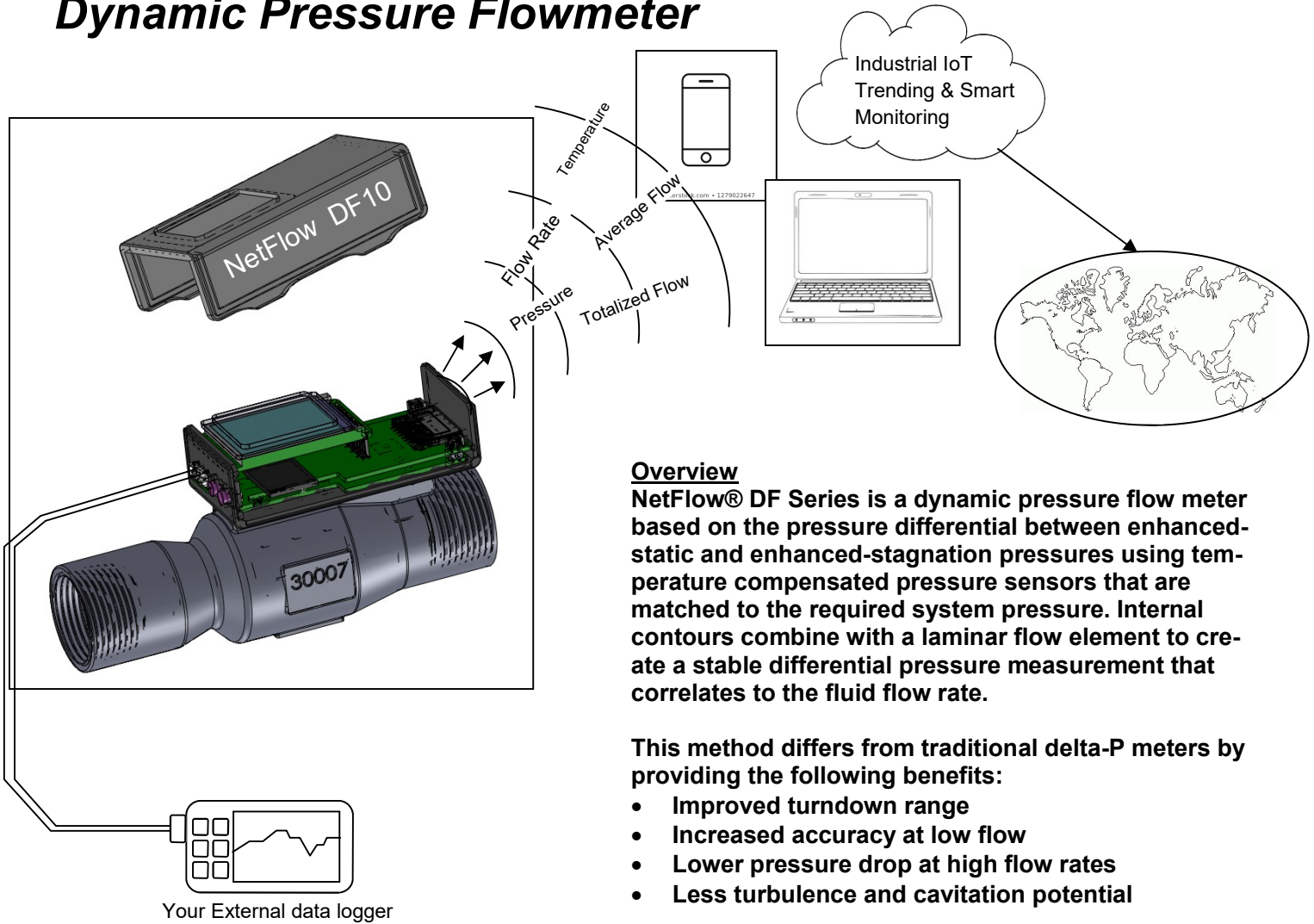


Dynamic Pressure Flowmeter



Overview

NetFlow® DF Series is a dynamic pressure flow meter based on the pressure differential between enhanced-static and enhanced-stagnation pressures using temperature compensated pressure sensors that are matched to the required system pressure. Internal contours combine with a laminar flow element to create a stable differential pressure measurement that correlates to the fluid flow rate.

This method differs from traditional delta-P meters by providing the following benefits:

- Improved turndown range
- Increased accuracy at low flow
- Lower pressure drop at high flow rates
- Less turbulence and cavitation potential

Data Access Features

1. WiFi server to local webpage
2. WiFi link to Cloud based NetFlow Dashboard
3. 0-20mA hardwired flow signal
4. Direct to on board NetFlow SD card logging to Flow.CSV

Five Fluid Parameters Recorded

1. Flow Rate
2. Line Pressure
3. Temperature
4. 5 Minute Average Flow Rate, Temp. & Press.
5. Totalized Flow in Thousands of Gallons/liters

The NetFlow Dynamic Pressure Flowmeter records and displays:

- Instantaneous and 5 Minute Average Values for:
 - Line pressure
 - Volumetric flow rate
 - Fluid temperature
- And the totalized flow for a user defined time period

All of this data is also communicated as follows:

1. Direct data logging to full size SD card inserted into the meter data port
2. WiFi transmission up to 20 meters to local devices (phone, tablet or PC) and displayed on a webpage portal. No apps or downloads required
3. Instantaneous flow rate on 0-20mA Analog Output hardwired connector for input to control system and data logger equipment
4. Worldwide access and database storage on cloud server with secured owner NetFlow Dashboard access and email alerts (coming soon)

Specifications

Item	Specification	Notes
Flow Range - DF10	4 – 40 gpm / 15 -151 lpm	1" FNPT 31 gpm / 5 psig
Flow Range - DF15	6 –90 gpm	(coming soon)
Flow Range - DF20	10 –160 gpm	(coming soon)
Fluid Temperature Range	-20 – 250°F / -28 -121°C	
Fluid Pressure Limit	250 psig	
Accuracy (SC) *	±2% of Reading See chart page 4	Standard Calibration
Accuracy (CC) *	± 1% of Reading See chart page 4	Certified Calibration
Repeatability *	± 1% of reading	
Response Time	< 1 sec	To 90% of stable flow
Analog Output	0-20mA, 22ga wire port	
Digital Data Output	WiFi webpage & Cloud NetFlow Dashboard	Logging rate selectable
Local Data logging	.CSV, Full size SD card	Data rate selectable
Power Options	12vdc transformer supplied	Or optional Battery pack (coming soon)
Wetted Materials	2205 Duplex SS Flow Body & Inner Parts of 316L SS, PEI, PPS (RytonR-4), Medical Grade Epoxy, Viton O-Rings	
Install with at least 3 pipe diameters straight length at NetFlow inlet		
Certifications	NSF61 Compliant**	Patent Pending

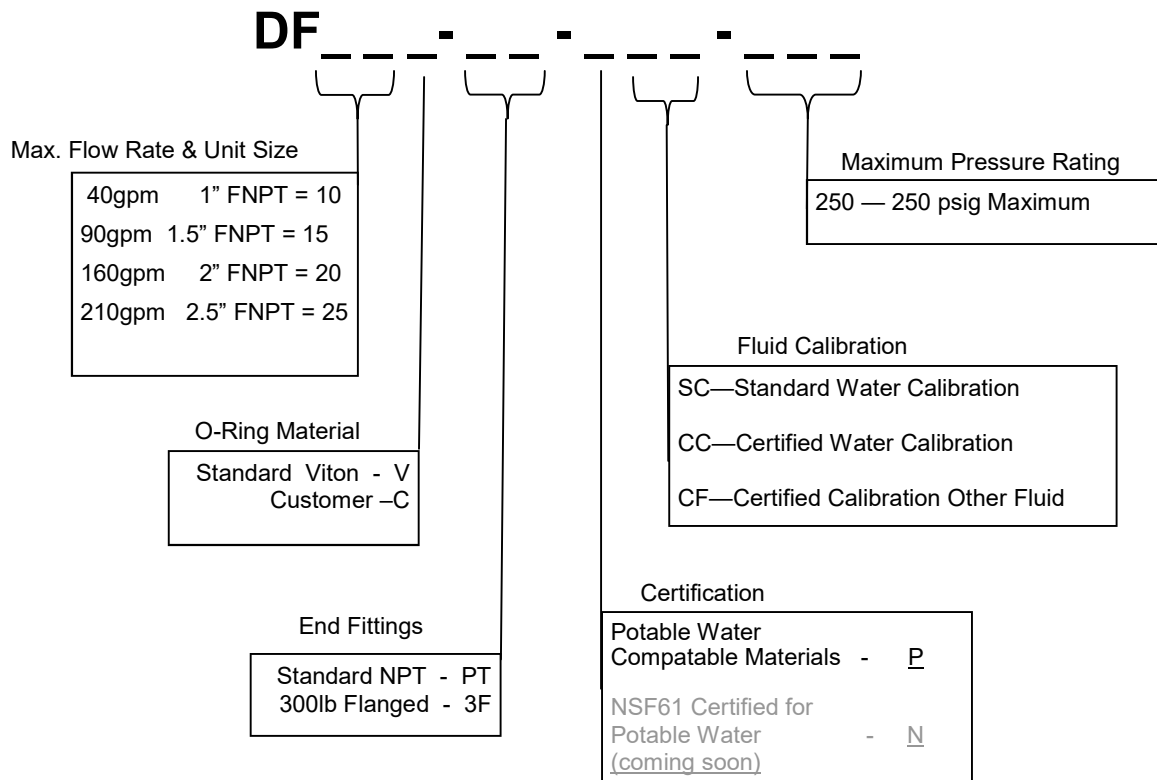
*Accuracy and Repeatability based on 5 minute average values for steady state operation

**DF series meters comply with NSF/ANSI 61: Drinking Water System Components - Health Effects and can be used safely in water and beverage applications. They are not currently certified or listed by NSF.

NetFlow Meter	Weight w/o flanges(kg)	Dimensions (mm)				
		Width	Height	Length (NPT)	Length (150 Flanges)	Length (300 Flanges)
DF10 -	8 lb (3.6)	2.0" (51)	3.25" (83)	6.0" (153)	8.25" (210)	8.75" (222)
DF15 - *						
DF20 - *						
* Other sizes under development						

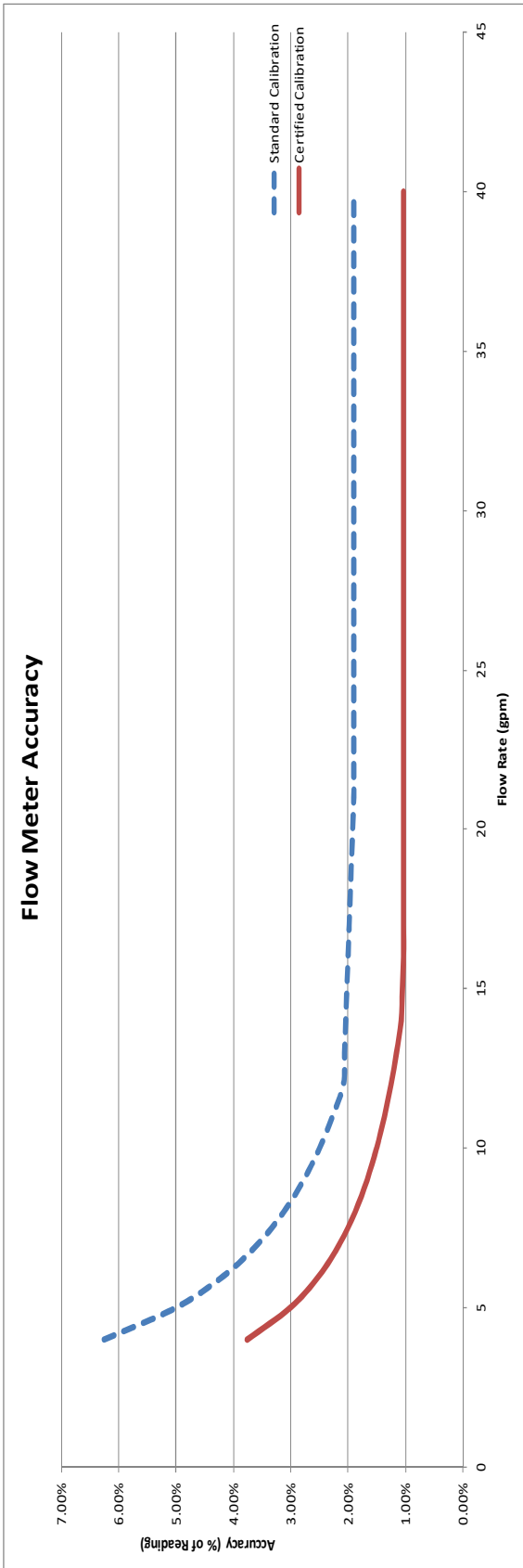
Part Number Ordering Instruction

1. Determine or estimate the maximum expected flow rate for your system by specification, bucket test or other visual methods
2. Determine the maximum fluid pressure for your system
3. Check material compatibility for the fluid to be measured (see table on page 4)
4. Use the chart below to build the correct part number for your NetFlow meter



Example Part Number: DF10V-PT-PCC-250

This is the part number for a NetFlow meter with 1"NPT fittings, Viton O-rings, Potable Water Compatible, with Certified Calibration for water, and 250 psig maximum pressure rating.



Material Compatibility	
Wetted Parts: 2205 Duplex SS, 316L SS, PEI, PPS (RytonR-4), Viton O-Rings, Medical Grade Epoxy	
<u>Fluids with Excellent Material Compatibility Ratings</u>	
Acetylene	
Ammonium Nitrate	
Arsenic Acid	
Barium Chloride	
Beer	
Boric Acid	
Butane	
Calcium Bisulfite	
Carbonic Acid	
Citric Acid	
Copper Nitrate	
Detergents	
Diesel Fuel	
Ferric Sulfate	
Fuel Oils	
Gasoline (high-aromatic)	
Glycerin	
Glycolic Acid	
Isooctane	
Jet Fuel (JP3, JP4, JP5)	
Lubricants	
Magnesium Hydroxide	
Oxalic Acid (cold)	
Potassium Chloride	
Potassium Sulfate	
Salt Brine (NaCl saturated)	
Silicone	
Soap Solutions	
Sodium Bicarbonate	
Stannous Chloride	
Sulfur Dioxide	
Sulfur Dioxide (dry)	
Tannic Acid	
Tomato Juice	
Vinegar	
Water, Deionized	
Water, Distilled	
Water, Fresh	
Zinc Sulfate	