# FLOW TARGET FLOW METER NFP SERIES

### DESCRIPTION

The Niagara NFP Series ForceMeter<sup>™</sup> is an insertion type flow meter that can measure water or steam. It utilizes a hermetically sealed strain-gage bridge circuit to convert flow force to a two-wire 4-20 mA output signal that is proportional to flow rate. All wetted parts are 316L stainless steel and the meter mounts to 4" and larger pipes using a 2" or 4" ANSI 150# or 300# raised face flange. The NFP Series comes pre-calibrated and configured based on the application parameters provided at the time of order; the meter only needs to be zeroed to adjust for installation orientation. Many different models and configuration options are available, such as retractable insertion types, inline models, and hazardous approval.

## **FEATURES**

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- Quick response time for flow change display can be dampened in less than 1 second
- Rugged design includes no moving parts to wear out
- All welded sensor construction for durability
- Hermetically sealed to withstand challenging environmental conditions
- Maintenance-free keeps cost of ownership down
- Integral display for local indication of flow and totalization



SPECIFICATIONS			
Supply Voltage	24 VDC ±10% ± 1.0% of rate		diameters downstream to any bend, obstruction or transition
Repeatability	± 0.15% of flow rate	Mounting	ANSI flanges standard
Output Signal	2-wire, 4-20 mA @ 500Ω	Media Compatibility	Liquid, non-volatile gases, or steam
Response Time	0.33 mS	Media Temperature Range	
Display	2-line alphanumeric with bar graph	-	-65° to 425°F (-54° to 218°C), other
Wiring Terminations	Screw terminals		ranges special order
Conduit Connection	3/4" FNPT	Maximum Pressure	>1000 psi (69 bar) for primary
Configuration	Factory pre-configuration required		sensing elements; piping connections
	to assure application/product match:		per applicable ANSI specs
	specify pipe size and material/	Materials Of Construction	
	schedule, fluid/gas type, operating		316L stainless steel wetted parts,
	pressure and temperatures, and		Polyester powder coated aluminum
	minimum/maximum flow rates		housing
Flow Turndown Ratio		Operating Temperature -4° to 170°F (-20° to 75°C)	
Steam	10:1	Enclosure Rating	NEMA 4X
		Dimensions	Height 10.8" (32.4 cm) from
Gas	15:1 application dependent		mounting flange to top of transmitter;
			insertion length depends on pipe
Liquid	15:1		size specified, force sensor locates in
Pipe Size Range	4" to 60" (100 to 1500 cm)		center of pipe
Turn Down	15:1	Weight	9 lb (4.1 Kg) maximum
Installation	Install in straight pipe section with	Approvals	CE, FM
	a minimum distance of 10 pipe	Warranty	2 years
	diameters upstream and 5 pipe	-	Leve

MORE OPTIONS AVAILABLE ON KELE.COM





## This information is required before placing an order:

- 1. Pipe size and schedule.
- 2. Type of gas or liquid or steam.
- 3. Operating pressure.
- 4. Maximum flow rate.
- 5. Temperature.
- 6. Constant or varying pressure.



#### **ORDERING INFORMATION**



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