

HAZARDOUS LOCATIONS

EXPLOSION PROOF TARGET FLOW METER NFPXXXXXXBV SERIES



NEW!



NFPXXXXXXBV - FM FIXED INSERTION

8

HAZARDOUS LOCATIONS

DESCRIPTION

The **Niagara NFPXXXXXXBV Series ForceMeter™** 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 **NFPXXXXXXBV 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

- **Quick response time for flow change display in less than 1 second, can be dampened**
- **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**
- **Class I, Division 1, Groups B, C, D**
- **Class II & III, Division 1, Groups E, F, G**

SPECIFICATIONS	
Supply Voltage	24 VDC ±10%
Output Signal	2-wire, 4-20 mA @ 500
Accuracy	±1.0% of rate
Repeatability	±0.15% of flow rate
Response Time	0.33 mS
Display	2-line alphanumeric with bar graph
Wiring Terminations	Screw terminals
Conduit Connection	3/4" FNPT
Configuration	Factory pre-configuration required to assure application/product match: specify pipe size and material/schedule, fluid/gas type, operating pressure and temperatures, and minimum/maximum flow rates
Flow Range	19.6 gpm (4" pipe) to 98,000 gpm (60" pipe)
Pipe Size Range	4" to 60" (100 to 1500 cm)
Turn Down	15:1
Installation	Install in straight pipe section with a minimum distance of 10 pipe diameters upstream and 5 pipe diameters downstream to any bend, obstruction or transition
Mounting	ANSI flanges standard
Media Compatibility	water or steam
Media Temperature Range	-65° to 425°F (-54° to 218°C)
Operating Temperature	-4° to 170°F (-20° to 75°C)
Maximum Pressure	>1000 psi (69 bar) for primary sensing elements; piping connections per applicable ANSI specs
Materials of Construction	316L stainless steel wetted parts, Polyester powder coated aluminum housing
Enclosure Rating	NEMA 4X
Dimensions	Height 10.8" (32.4 cm) from mounting flange to top of transmitter; insertion length depends on pipe size specified, force sensor locates in center of pipe
Approvals	CE, FM
Weight	9 lb (4.1 Kg) maximum
Warranty	2 years

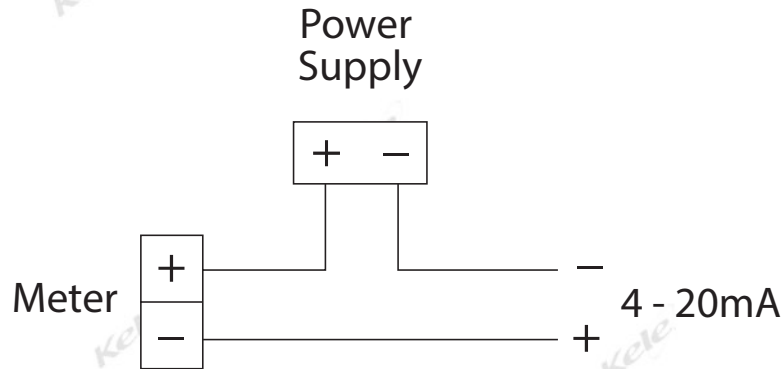
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WIRING



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ORDERING INFORMATION

MODEL	DESCRIPTION
NFP	FLOW METER
	LINE SIZE (inches)
4, 5, 6, 8, 10, 12, etc.	DESCRIPTION
	Select Pipe size (large insertion and smaller inline models are available)
	MOUNTING
M	DESCRIPTION
P	2" Fixed Probe
	4" Fixed Probe
	FLANGE RATING
01	DESCRIPTION
02	150# raised-face ANSI
	300# raised-face ANSI
	BODY, ELEMENT
Y1V1BV	DESCRIPTION
	SS 316L Body, Unidirectional
	MEDIA
L	Water
S	Steam

Example: NFP4M01Y1V1ZVL Flow Meter, 4" Pipe size, 2" Fixed Probe, 150# raised-face ANSI, SS316L Body unidirectional, L

RELATED PRODUCTS

DCPA-1.2 Power supply, 120 VAC In to 24 VAC/24 VDC Out
DGP-1.5-W Power supply, 24 VAC IN to 24 VDC OUT

Please call Kele for specific application and prices. The following Information is required:

1. Pipe size and schedule
2. Type of gas or liquid
3. Operating pressure
4. Maximum flow rate (lb/hr, scfm)
5. Temperature
6. Constant or varying pressure

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