PITOT TUBE FLOW SENSORS

NFB SERIES

The NEW-FLOW BAR is used for flow measurement of large pipe size.

Low permanent pressure loss for clean liquid or gas (vapor). There are many parallel holes that are located on upstream and downstream of this probe. When fluid through this probe generate high pressure in upstream and low pressure in downstream. The upstream read out average pressure is called total pressure(stagnation pressure). The downstream read out average pressure is called static pressure. This device insert into a flow pipe probe. Then detect out high/low pressure for ΔP transmitter or ΔP gauge to indicate the flow rate.

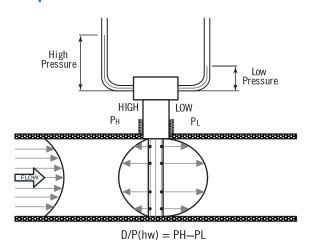
Technical Data

- **1.** NFB-Series is a flow element suitable for liquid steam and gases (vapor) flow measurement.
- **2.** Accuracy $\pm 1\%$ of flow rate.
- 3. Repeatability of measurement $\pm 0.1\%$.
- 4. Flow rate turndown typically 10:1
- 5. Max, temperature limit to 420°C, depended on model and material.
- **6.** Max. pressure limit to 1500 psi depended on model and material.
- 7. Low permanent pressure loss.
- 8. Bi-directional flow sensing.
- 9. Energy save.

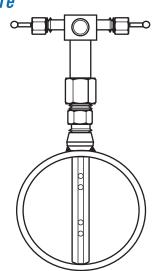




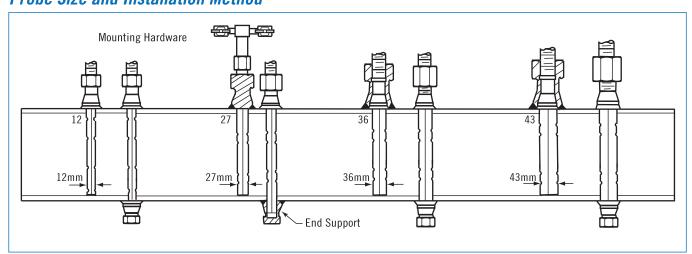
Principle A



Figure



Probe Size and Installation Method

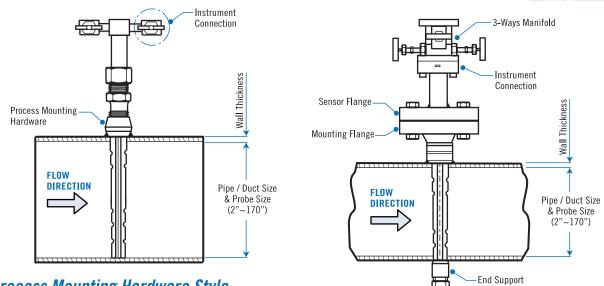


Model Selection Guide

Model	NFB-100	NFB-150	NFB-200	NFB-300	NFB-400A	NFB-400B	
Picture							
	Standard version						
Service Fluid	1. Liquid 2. Gas 3. Mixture Gases						
Working Pressure Limit	100 Bar/ 1500 psig	100 Bar/ 1500 psig	56 Bar/ 800 psig	56 Bar/ 800 psig	56 Bar/ 800 psig	100 Bar/ 1500 psig	
Working Temperature Limit	250°C	250°C	250°C	250°C	250°C	300°C	
For Pipe /Duct Size	(>170", please	170" consult with the acturer.)	(6" >170", please consu	~ 170" It with the manufact	urer.)	
Sensor Size	12mm, 27mm 36mm or 43mm	12mm, 27mm 36mm or 43mm	27mm, 36mm or 43mm	27mm, 36mm or 43mm	27mm or 36mm	27mm, 36mm or 43mm	

Instrument connection style

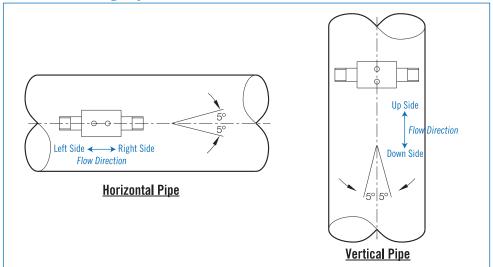
A.	B.	C.	D.	E.						
Two Valve Type	Two Flange Type	Head Plate for 3-ways Manifold Direct-Mounting	With 3-ways Manifold valve	Thread Connection Only						



Process Mounting Hardware Style



Sensor Mounting Style



Ordering Information

NFB	Code	Model									Code Process Mounting Hardware Material				
		100	150	200	200 300 400A 400B A Carbon S					n Steel					
		Code	Body Ma	terial							SS316 Stainless Steel				
		1	SS316 st	andard							Option				
			Code	Pipe Siz	е				П		Code End Support				
				Please d	directly fill out the request size 2"~170"(option)						D	With	N	Without	
				Code	Instrun	nent Coni	nection Sty	e				Code	Sensor I	Mounting Style	
				A	Two Val	ve Type	В	Two Flange Type				Н	Horizont	al Pipe	
				С	Head Plate for 3-ways Manifold Direct-Mounting							٧	Vertical Pipe		
				D	With 3-	ways Man	nifold Valve				'		Code	Flow Direction	
				E	Thread Connection Only								R	Right Side	
					Code Instrument Connection Material						L		Left Side		
						(A) Carb	oon Steel (I	B) SS316 (C) Option					U	Up Side	
						Code	Process M	ounting Hardware Style					D	Down Side	
						В	Branch Out	let Fitting							
						F	Flange Fitti	ng							
\	₩	₩	₩	₩	₩	\			•		₩	₩	₩		
NFB								+						Complete ordering code	