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.

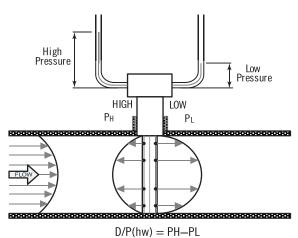
Technical Data

- **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.

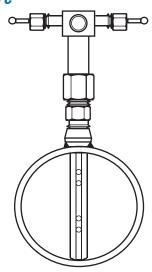




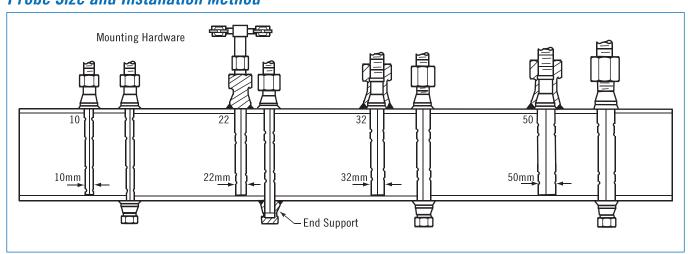
Principle A



Figure



Probe Size and Installation Method

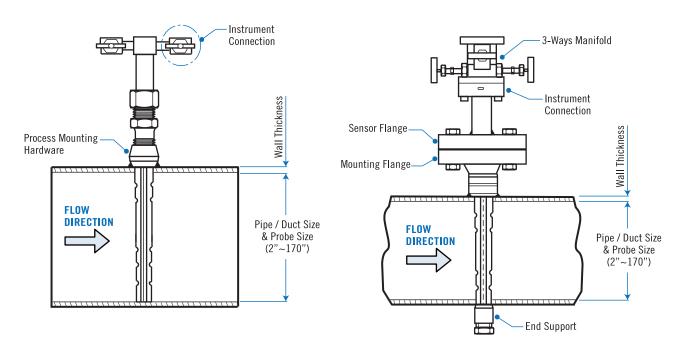


Model Selection Guide

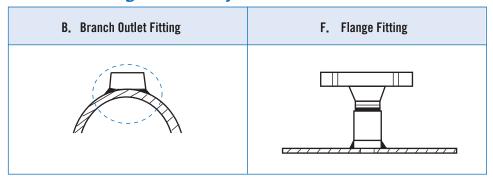
Model	NFB-100	NFB-150	NFB-200	NFB-300	NFB-400A	NFB-400B		
Picture								
	Standard version	Standard version	Standard version	Standard version	Standard version	Standard version		
Service Fluid	1. Liquid 2. Gas 3. Mixture Gases 2. Liquid 2. Gas 3. Mixture Gases		1. Liquid 2. Gas 3. Mixture Gases	1. Liquid 2. Gas 3. Mixture Gases	1. Liquid 2. Gas 3. Mixture Gases	1. Liquid 2. Gas 3. Mixture Gases		
Working Pressure Limit	100 Bar/ 1500 psig 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	300°C		
For Pipe /Duct Size	(>170", please	170" consult with the acturer.)	$6^{\prime\prime}\sim170^{\prime\prime}$ ($>\!170^{\prime\prime}$, please consult with the manufacturer.)					
Sensor Size	10mm, 22mm or 32mm	10mm, 22mm or 32mm	mm 10mm, 22mm 10mm, 22mm or 32mm 22mm or			22mm, 32mm or 50mm		

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



Ordering Information

NFB	Code	Model						Code	Instrument Connection Material				
		100	150	O 200 300 400A 400B				Α	Carbon Steel				
		Code	Body Ma	Material				В	SS316 Standard Steel				
		1	SS316 st	standard				C	Option				
			Code	Pipe Size Please directly fill out the request size 2"~170"(option)					Code	Process Mounting Hardware Style			
									В	Branch (Branch Outlet Fitting		
				Code	ode Instrument Connection Style				F	Flange F	nge Fitting		
				A	Two Valve Type Two Flange Type Head Plate for 3-ways Manifold Direct-Mounting With 3-ways Manifold Valve					Code	Proces	s Mounting Hardware Materia	
				В						Α	Carbon Steel		
				C						В	SS316 Stainless Steel Option		
				D						C			
				E	Thread Co	nnection 0	nly				Code	End Support	
											D	With	
											N	Without	
+	V	\downarrow	\	\				\	\	\	\downarrow		
NFB							+					Complete ordering code	