

Yamatake-Honeywell

SPECIFICATION

Specifications

Measuring range: 0~5,000 to 0~50,000mmH₂O, continuously adjustable.

Process connection:

HP side; Flange connection

Flush diaphragm type

80mm-JIS 10K, 30K (RF) equivalent flange

3"-ANSI 150, 300 (RF) equivalent flange

Extended diaphragm type

100mm-JIS 10K, 30K (RF) equivalent flange

4"-ANSI 150, 300 (RF) equivalent flange

Length of extended part; 100 or 150mm

LP side;

PT $\frac{1}{2}$ (ISO R7 $\frac{1}{2}$ ") or NPT $\frac{1}{2}$ tap thread Carbon steel,

SUS316 st. st., Titanium and PVC cover material

PF $\frac{1}{2}$ -A (ISO R228 $\frac{1}{2}$ ") tap thread Monel lining and

Tantalum lining cover materials

Air connection: PT $\frac{1}{4}$ (ISO R7 $\frac{1}{4}$ ") or NPT $\frac{1}{4}$ tap thread

Supply air pressure: 1.4 \pm 0.1 kg/cm²

Output: 0.2~1.0 kg/cm²

Air consumption: Within 4 NI/min. (When output 100% balanced.)

Pressure limit: -0.5 kg/cm²G to maximum flange rated pressure.

Operating temperature:

At meter body (process fluid); -40 ~ +120°C

At transmitter (ambient); -30 ~ +80°C

Relative humidity: 10 ~ 90% RH

Overload protection: To maximum flange rated pressure.

Damping adjustment: Continuously adjustable. (Time constant is 30 sec. or more at maximum damping.)

Accuracy: \pm 0.5% FS

Dead band: 0.1% FS (Sensitivity is 0.05% FS)

Materials:

HP side process connecting flange;

Wet-part; SUS316 st. st., Titanium, Monel lining and

Tantalum lining

Flange; Carbon steel (SF 45) and SUS316 st. st.

LP side cover;

Carbon steel (SF 45), SUS316 st. st., Titanium, Monel

lining, Tantalum lining and PVC (Pressure limit -0.1 ~ +15 kg/cm²G, and temperature limit 0 ~ 55°C)

Seal diaphragm; SUS316 st. st., Titanium, Monel and Tantalum

Wet-part gasket; Teflon

Transmitter case; Aluminum die-cast

Finish: Acryl baking finish

(For corrosion-resistant and silver finish, refer to the optional specification.)

Color or finish: Cover; Light beige

Case; Dark beige

Mounting: Directly flange mounted to the vessel.

Net weight: Approx. 15kg with 80mm-JIS 10K flange.

(Add 1.8kg for air-set.)

Options (Accessories)

Following accessories are optionally available.

Item (1), (2) are the standard options.

(1) Suppression and elevation:

Suppression; Up to 50,000mmH₂O

Elevation; Up to 45,000mmH₂O

(Span plus elevation; Up to 50,000mmH₂O)

(2) Air-set (Filter and pressure regulator)

Item (3)~(8) are the semi-standard options.

(3) Half range: (Y 20)

Measuring range; 0 ~ 2,500 to 0 ~ 25,000mmH₂O

Accuracy; \pm 0.75% FS (\pm 1.0% for span less than 5,000 mmH₂O)

Suppression; Up to 50,000mmH₂O

Elevation; Up to 47,500mmH₂O (Span plus elevation;

Up to 50,000mmH₂O)

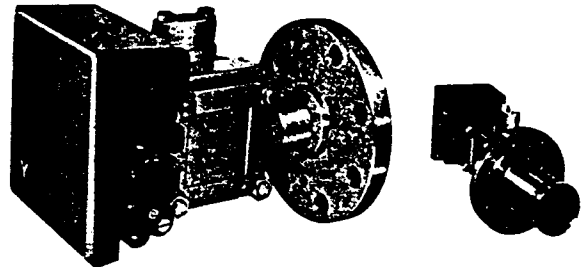
PNEUMATIC

DIFFERENTIAL PRESSURE TRANSMITTER

FLANGE TYPE

(HIGH DIFFERENTIAL PRESSURE RANGE)

MODEL : NDP 61



NDP 61
(Flush Diaphragm Type)

NDP 61
(Extended Diaphragm Type)

(4) Vacuum use: (Y 23)

Static pressure range; -1 kg/cm²G to HP side flange rated pressure.

(Note; Rangeability nearing absolute zero pressure varies with the measuring fluid temperature.)

Damping adjustment; Fixed

Process connections (LP side); Top or bottom

(5) Steam jacket: (Y 29)

Maximum working pressure; 10 kg/cm²G (HP side), 50 kg/cm²G (LP side)

Maximum working temperature;

200°C (HP side), 300°C (LP side)

(Body temp. 120°C, Flange temp.; St'd type . . . 120°C
Hi-temp. type . . . 200°C)

Connection; PT $\frac{1}{4}$ (ISO R7 $\frac{1}{4}$ ") or NPT $\frac{1}{4}$ tap thread
Material; Carbon steel (SF 45)

(6) High temperature use: (Y 62)

Working temperature range;

Fluid; -10 ~ +200°C

Ambient; -10 ~ +80°C

Sealing liquid; Special silicon oil (Sp. Gr. 1.07)

(7) SUS 304 stainless steel body bolts: (Y 66)

Maximum working pressure; 70kg/cm²G

(8) Corrosion-resistant and silver finish (Y138A ~D)

Corrosion-resistant (Acryl baking) finish (Y 138A);

Resistance for corrosive gases.

Corrosion-proof (Epoxy baking) finish (Y 138B);

Resistance for corrosive liquids.

Silver-normal (Acryl baking) finish (Y 138C);

Protection for temperature rise of device caused by direct sun light, radiation heat, etc.

Silver-corrosion-resistant (Acryl baking) finish (Y 138D);

Protection for above-mentioned temperature rise and resistance for corrosive gases.

(Note: Silver finish is not applicable for alkaline gases.)

(9) For chlorine gas

Sealing liquid; Fluorine oil

Seal diaphragm mat'l; Tantalum

Working temp. limit; -20 ~ +80°C

Min. working pressure; 0kg/cm²G

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Process Control Division

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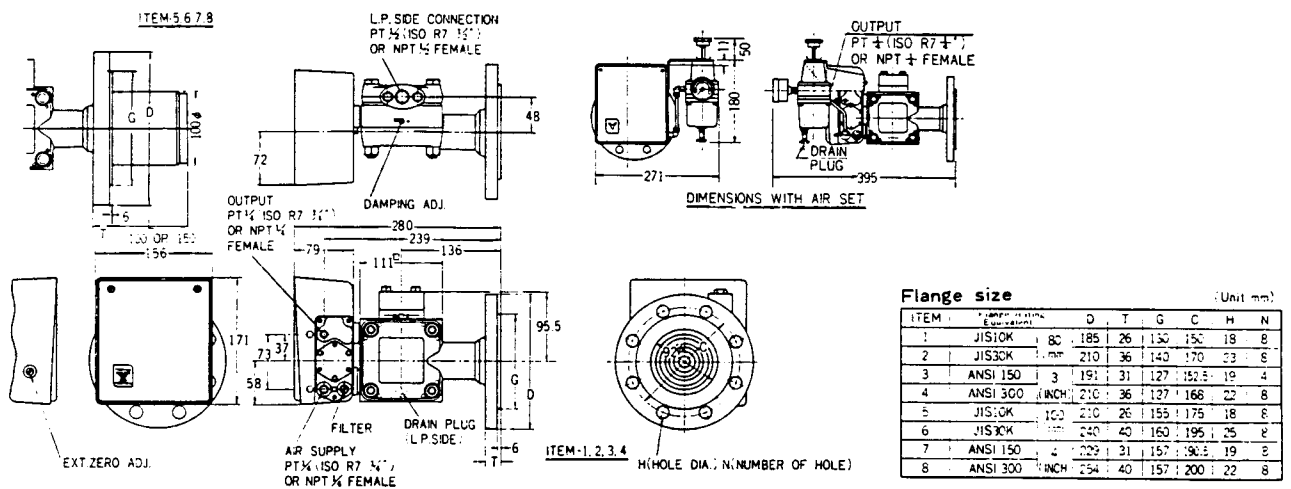
Model Number Table

Ex. NDP 61-11221-5,7

Basic Model No.	Flange & Cover Mat'l		Diaphragm Mat'l		Flange Rating	Option	Description
	H.P (Flange)	L.P (Cover)	H.P	L.P			
NDP 61							Pneumatic, High Range
	-1						Carbon Steel (SF 45)
	-2						Stainless Steel (SUS 316)
			1				Carbon Steel (SF 45)
			2				Stainless Steel (SUS 316)
			3				Monel Lining (Base SUS 316)
			4				Tantalum Lining (Base SUS 316)
			5				Rigid PVC
			6				Titanium
				2			Stainless Steel (SUS 316)
				3			Monel
				4			Tantalum
				6			Titanium
					2		Stainless Steel (SUS 316)
					3		Monel
					4		Tantalum
					6		Titanium
					1		Flush Diaphragm Type 80mm-JIS 10K (RF) equiv. flange
					2		" 80mm-JIS 30K (RF) equiv. flange
					3		" 3"-ANSI 150 (RF) equiv. flange
				4		" 3"-ANSI 300 (RF) equiv. flange	
				5		Extended Diaphragm Type 100mm-JIS 10K (RF) equiv. flange	
				6		" 100mm-JIS 30K (RF) equiv. flange	
				7		" 4"-ANSI 150 (RF) equiv. flange	
				8		" 4"-ANSI 300 (RF) equiv. flange	
				-5		Elevation	
				-6		Suppression	
				-7		Air-Set	

Note: When specifying semi-standard options (Y□), write in "Y" as follows and put an additional remarks for "Y" numbers. Example; NDP61Y-11221-5, 7 and add "Y" number in writing. (Please consult with factory in case of a multiple of "Y" spec. are required.)

Dimensions



- Notes: 1. LP side process connections can be made in any of two positions of top or bottom and are interchangeable at the field.
 2. Vertically mount the transmitter. Do not exceed 5 degrees from vertical in either directions.
 3. As for cover dimensions of corrosion-proof type ND, refer to spec. sheet No. SS2-519-060 because of its difference.
 (Except for stainless steel cover.)

* Specifications are subject to change without notice.

Ordering Information

When ordering, please specify:

- 1) Model No.
- 2) Differential range
- 3) Options

- * Reference instruction manual FF-2234
- * Reference specification sheet SS2-519-050 (Steam jacket)
 SS2-519-060 (Corrosion-proof type)