

Yamatake-Honeywell

SPECIFICATION

Specifications

Measuring range: 0~500 to 0~6,500mmH₂O, continuously adjustable.

Process 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

Capillary tube length: 1.5, 3, 5 meters

(Note: When used as a level meter, beware of the head pressure of sealing liquid (Sp. Gr. 0.935))

Air connection: PT 1/4 (ISO R7 1/4") or NPT 1/4 tap thread

Supply air pressure: 1.4 ± 0.14 kg/cm²

Output: 0.2~1.0 kg/cm²

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

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

Damping adjustment (with 3 meters capillary tube):

Continuously adjustable. (Time constant is 50 sec. or more at maximum damping.)

Accuracy: ±0.5% FS

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

Materials:

Process connecting flange:

Wet-part; SUS 316 st. st., Monel lining, Tantalum lining and Titanium

Flange; Carbon steel (SF 45) and SUS 316 st. st.

Seal diaphragm; SUS 316 st. st., Monel, Tantalum and Titanium

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 of finish: Cover; Light beige (Munsell 4Y7.2/1.3)

Case; Dark beige (Munsell 10YR4.7/0.5)

Mounting: Directly flange mounted to the vessel. (Transmitter unit is mounted on vertical or horizontal 2 inch pipe.)

Net weight: Approx. 19.5 kg with 80mm-JIS 10K flange.

(Add 1.8 kg for air-set.)

Options (Accessories)

Following accessories are optionally available.

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

(1) Suppression and elevation:

Suppression; Up to 6,500mmH₂O

Elevation; Up to 6,000mmH₂O

(Span plus elevation; Up to 6,500mmH₂O)

(2) Air set (Filter and pressure regulator)

Item (3)~(10) are the semi-standard options.

(3) Half range: (Y 20)

Measuring range; 0~250 to 0~3,250mmH₂O

Accuracy; ±0.75% FS (±1.0% FS for span less than 500mm H₂O.)

Suppression; Up to 6,500mmH₂O

Elevation; Up to 6,250mmH₂O (Span plus elevation; Up to 6,500mmH₂O)

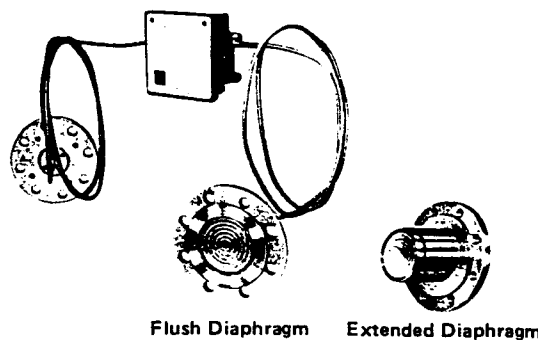
PNEUMATIC

DIFFERENTIAL PRESSURE TRANSMITTER

REMOTE SEAL DIAPHRAGM TYPE

(MIDDLE DIFFERENTIAL PRESSURE RANGE)

MODEL : NDP 72



Flush Diaphragm

Extended Diaphragm

(4) Vacuum use: (Y 23)

Measuring range; 0~1,360 to 0~6,500mmH₂O, continuously adjustable.

Static pressure range; -1 kg/cm²G to flange rated pressure. (Note: Rangeability needing absolute zero pressure with the measuring fluid temperature.)

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

Damping adjustment; Fixed

(5) Steam jacket: (Y 29)

Maximum operating pressure; 50 kg/cm²G

Maximum operating temperature; 200°C

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

Connection; PT 1/4 (ISO R7 1/4") or NPT 1/4 tap thread

(6) High temperature use: (Y 62)

Operating temperature;

Fluid; -10 ~ + 200°C, Ambient; -10 ~ + 80°C

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

(7) Low temperature use (SUS 316 st. st. flange): (Y 63)

Operating temperature;

Fluid; -80 ~ + 60°C, Ambient; -30 ~ + 60°C

Sealing liquid; Special anti-freeze liquid (Sp. Gr. 0.86)

(8) High pressure use (Wafer type): (Y 65)

Operating pressure; -0.5 ~ +100 kg/cm²G

Process connection; Fit to 3"-ANSI 1500 (RF) flange.

(9) SUS 304 stainless steel body bolts: (Y 66)**(10) 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.)

(11) For chlorine gas

Sealing liquid; Fluorine oil (Sp. gr. 1.94)

Seal diaphragm mat'l; Tantalum

Operating temperature; -20 ~ +80°C

Operating pressure; -0.5 kg/cm²G to flange rated pressure

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Process Control Division

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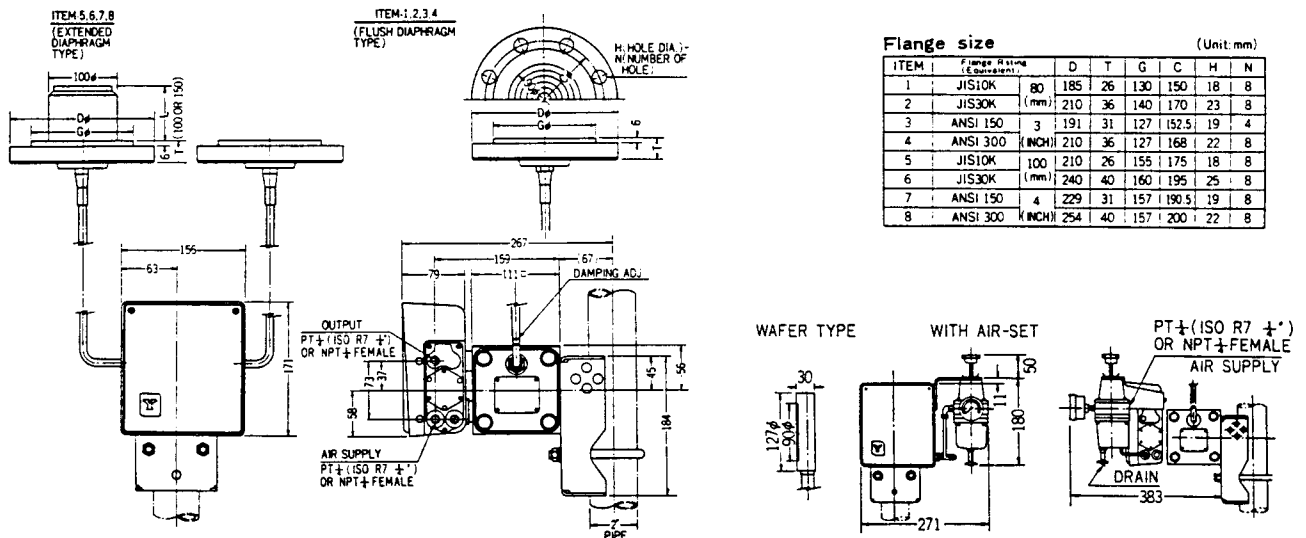
Model Number Table

Ex. NDP 72-11221-5, 7

Basic Model No.	Flange Mat'l		Diaphragm Mat'l		Flange Rating	Options	Description
	H.P.	L.P.	H.P.	L.P.			
NDP 72							Pneumatic, Middle Range
	-1						Carbon Steel (SF 45)
	-2						Stainless Steel (SUS 316)
		1					Carbon Steel (SF 45)
		2					Stainless Steel (SUS 316)
			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: NDP 72Y-11221-5, 7 and add "Y" number in writing. (Please consult with factory in case of a multiple of "Y" spec. are required.)

Dimensions



- Note: 1. Vertically mount the transmitter. Do not exceed 5 degrees from vertical in either directions.
2. As for cover dimensions of corrosion-proof type ND, refer to spec. sheet No. SS-29-106 because of its difference. (Except for stainless steel cover.)

Ordering Information

When ordering, please specify:

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

- * Specifications are subject to change without note.
- * Reference instruction manual OM2-512-710
- * Reference specification sheets (Steam jacket) (SS2-519-050)
. (Corrosion-proof type) (SS2-519-060)