

Yamatake-Honeywell

SPECIFICATION

Specifications

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

Process connection:

PT ½ (ISO R7 ½") or ½" NPT tap thread for cover materials of Carbon steel, SUS 316 st. st. and Titanium.

PF ½ (ISO R228 ½") tap thread for cover materials of Monel lining and Tantalum lining.

Air connection: PT ¼ (ISO R7 ¼") or ¼" NPT 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~+100 kg/cm²G

Operating temperature:

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

At transmitter (ambient); -30~+80°C

Humidity limit: 10~90% RH

Overload protection: To 100 kg/cm²G in either direction.

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

Accuracy: ±0.5% FS

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

Materials:

Cover (pressure chamber);

Carbon steel (SF 45), SUS 316 st. st.,

Monel lining (base SUS 316, max. pressure 70 kg/cm²G),

Tantalum lining (base SUS 316, max. pressure 70 kg/cm²G),

Titanium (max. pressure 50 kg/cm²G),

PVC (operating pressure -0.1~+15 kg/cm²G and operating temperature 0~55°C)

Seal diaphragm: SUS 316, 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 specifications.)

Color of finish:

Cover; Light beige (Munsell 4Y 7.2/1.3)

Case; Dark beige (Munsell 10YR 4.7/0.5)

Mounting: On vertical or horizontal 2 inch pipe.

Net weight: Approx. 10.2 kg (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 50,000 mmH₂O

Elevation; Up to 45,000 mmH₂O

(2) Air set (Filter & pressure regulator)

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

(3) Half range: (Y 20)

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

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

Suppression; Up to 50,000 mmH₂O

Elevation; Up to 47,500 mmH₂O

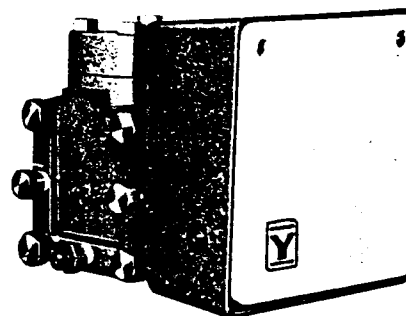
(Span plus elevation; Up to 50,000 mmH₂O)

PNEUMATIC

DIFFERENTIAL PRESSURE TRANSMITTER

(HIGH DIFFERENTIAL PRESSURE RANGE)

MODEL; NDP 11



NDP 11

(4) Oil free: (Y 21)

Wet part material; SUS 316 st. st.

Sealing liquid; Daifloil

Operating temperature (Both fluid and ambient); -20~+45°C

(5) Vacuum use: (Y 23)

Static pressure range; -1~+35 kg/cm²G

(Note: Rangeability needing absolute zero pressure varies with the measuring fluid temperature.)

Ambient temperature; -10~+80°C

Damping adjustment; Fixed

Process connections; Top or bottom

(6) Steam jacket: (Y 29)

Operating pressure; Max. 50 kg/cm²G

Operating temperature; Max. 300°C

(Body temperature must not exceed 120°C.)

Connection; PT ¼ (ISO R7 ¼") or ¼" NPT tap thread

Material; Carbon steel (SF 45)

(7) SUS 304 st. st. bolts: (Y 66)

Operating pressure; Max. 70 kg/cm²G

(8) Corrosion-resistant (Acryl baking) finish (Y 138A~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

Ambient temperature; -20~+80°C (SUS 316 Cover)

Operating pressure; Min. -0.5~+100kg/cm²G (SUS 316 Cover)

(10) Reverser unit:

Material; Carbon steel (SF45) and SUS 316 st. st.

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