

Specifications

Measuring range: 0~500 to 0~5,500mmH₂O, continuously adjustable.

Process connection:

(1) 13.6 × 5 [mm dia.] nipple for butt welding (Pitch dimension of HP and LP taps; 85 mm)

(2) With manifold ½" socket welding (Pitch dimension of HP and LP taps; 110 mm)

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 ~ +500 kg/cm²G

Operating Temperature:

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

At transmitter (ambient); -30 ~ +80°C

Relative humidity: 10 ~ 90% RH

Overload protection: To 500 kg/cm²G in either direction.

Damping adjustment: Continuously adjustable. (Time constant is 20 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) and SUS 316 st. st.

Seal diaphragm; SUS 316 st. st., 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 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 2 inch pipe.

Net weight: Approx. 26.3 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 5,500mmH₂O

Elevation; Up to 5,000mmH₂O

(Span plus elevation; Up to 5,500mm H₂O)

(2) Air set (Filter and pressure regulator)

Item (3)~(7) are the semi-standard options.

(3) Half range: (Y 20)

Measuring range; 0~250 to 0~2,750mmH₂O

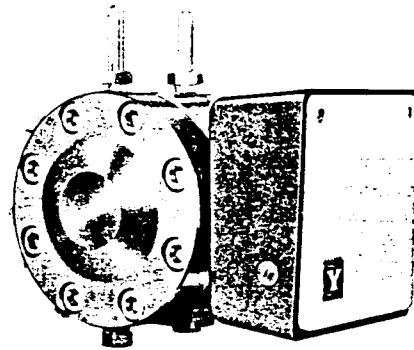
Accuracy; ± 0.75% FS (± 1.0% FS for span less than 500mm H₂O.)

Suppression; Up to 5,500mmH₂O

Elevation; Up to 5,250mmH₂O (Span plus elevation; Up to 5,500mmH₂O)

PNEUMATIC DIFFERENTIAL PRESSURE TRANSMITTER HIGH STATIC PRESSURE TYPE (MIDDLE DIFFERENTIAL PRESSURE RANGE)

MODEL : NDP 82



NDP 82

(4) Steam jacket: (Y 29)

Operating pressure; 10 kg/cm²G (Max.)

Operating temperature; 250°C (Max.)

(Body temperature must not exceed 120°C.)

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

Material; Carbon steel (SF 45)

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

Operating pressure; 300 kg/cm²G (Max.)

(6) Wafer type (High press. use) (Y 111)

Capillary tube length; 1.5 m or 3 m (Both HP and LP)

Process connection; 3 inch wafer (RF) type

Materials; Process connecting wafer SUS 316 st. st.

Seal diaphragm SUS 316 st. st.

Operating temp.; Process fluid . . . -40 ~ +120°C

Ambient . . . -10 ~ +80°C

(7) Corrosion-resistant and silver 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.)

(8) For chlorine gas (For SUS316 cover only)

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

Seal diaphragm mat'l; Tantalum

Operating temperature; -20 to 80°C (SUS316 cover).

Operating pressure; -0.5 to +500 kg/cm²G (SUS316 cover).

Yamatake-Honeywell Co. Ltd.
Process Control Division

Sales Headquarters : Nagai International Bldg., 12-19, Shibuya 2 chome, Shibuya-ku, Tokyo, 150 Japan
Tel : (03) 409-7171 Telex : J22902 Cable : YAMATAKE CO

