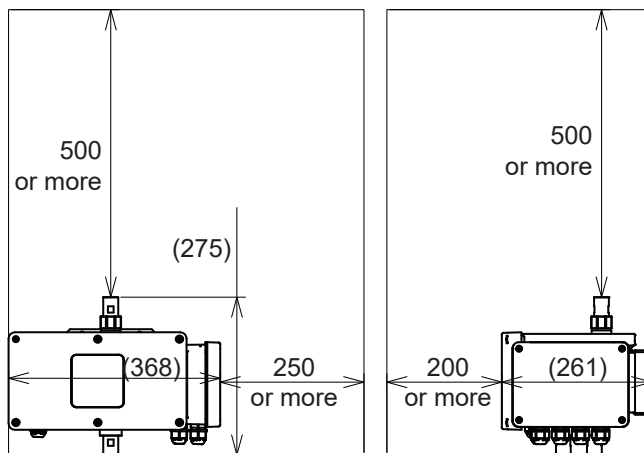
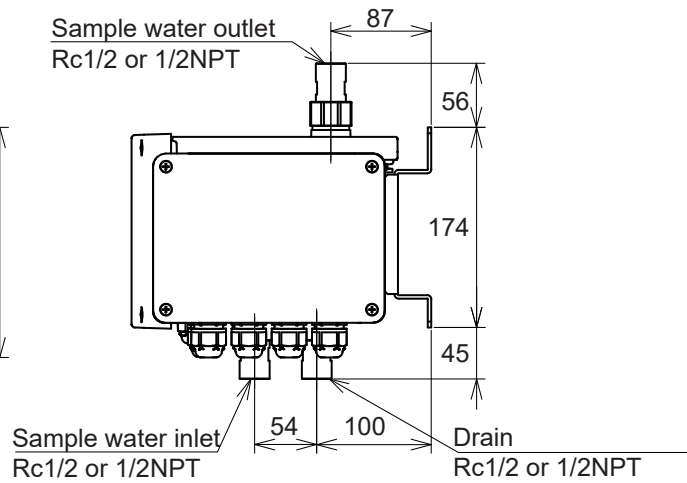
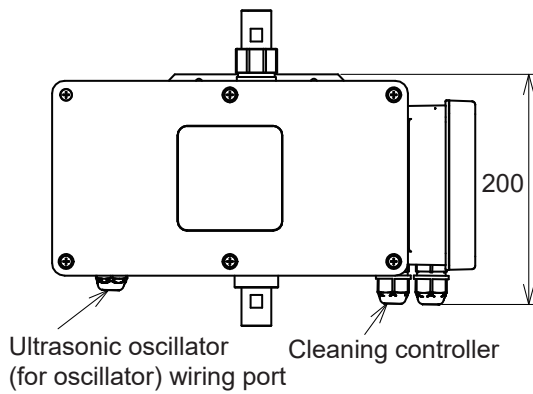
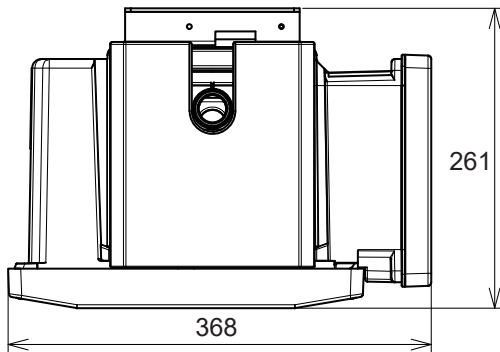


Drawings

TB820D Right Angle Scattered Light Turbidity Detector

SD 12E01B30-01EN

Unit: mm



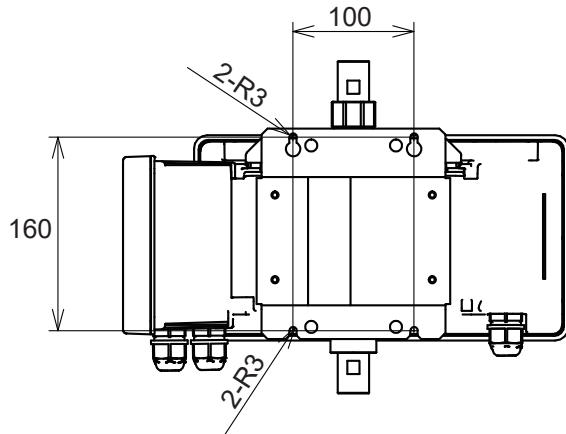
Maintenance space

Weight: Max. 4.9 kg

Unless otherwise specified, differences in the dimensions are specified as: General tolerance = \pm (Criteria of tolerance class IT18 in JIS B0401-1998)/2.

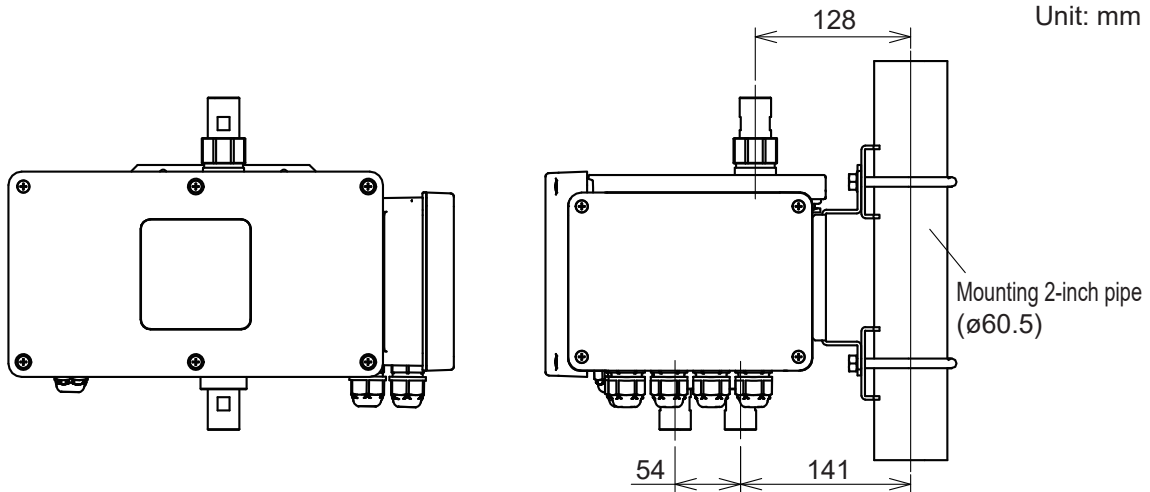
Wall mounting (Install the detector with four M5 screws)

Unit: mm



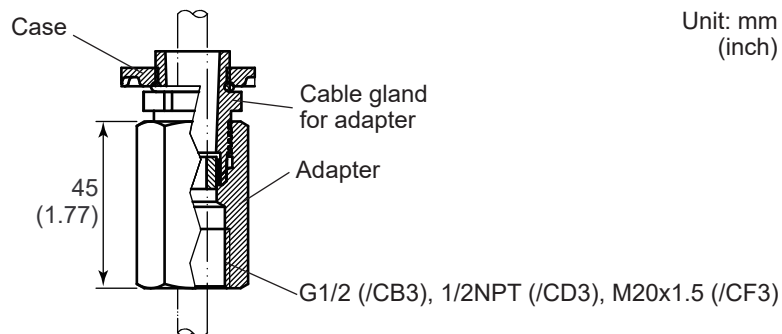
Pipe mounting (Option code: □ /U)

Unit: mm



Conduit Adapter (Option code: □ /CB3, □ /CD3, □ /CF3)

Unit: mm
(inch)



Unless otherwise specified, differences in the dimensions are specified as: General tolerance = \pm (Criteria of tolerance class IT18 in JIS B0401-1998)/2.

Pressurized head tank for low turbidity (/D1)

See SD 19T02D02-06EN

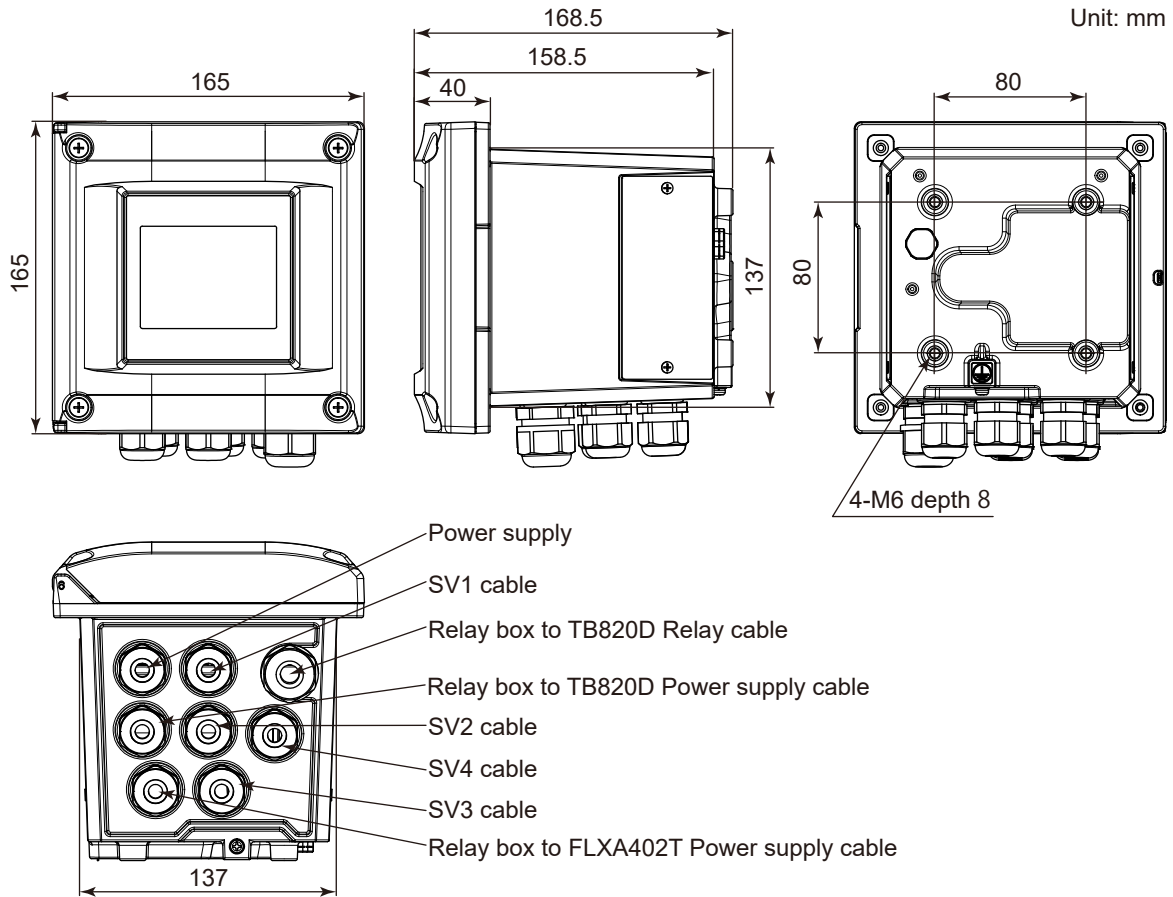
Simple head tank (for NTU to 10.0 NTU) (/D2)

See SD 19T02D02-03E

Head tank (for over 2 NTU) (/D3)

See SD 19T02D02-04EN

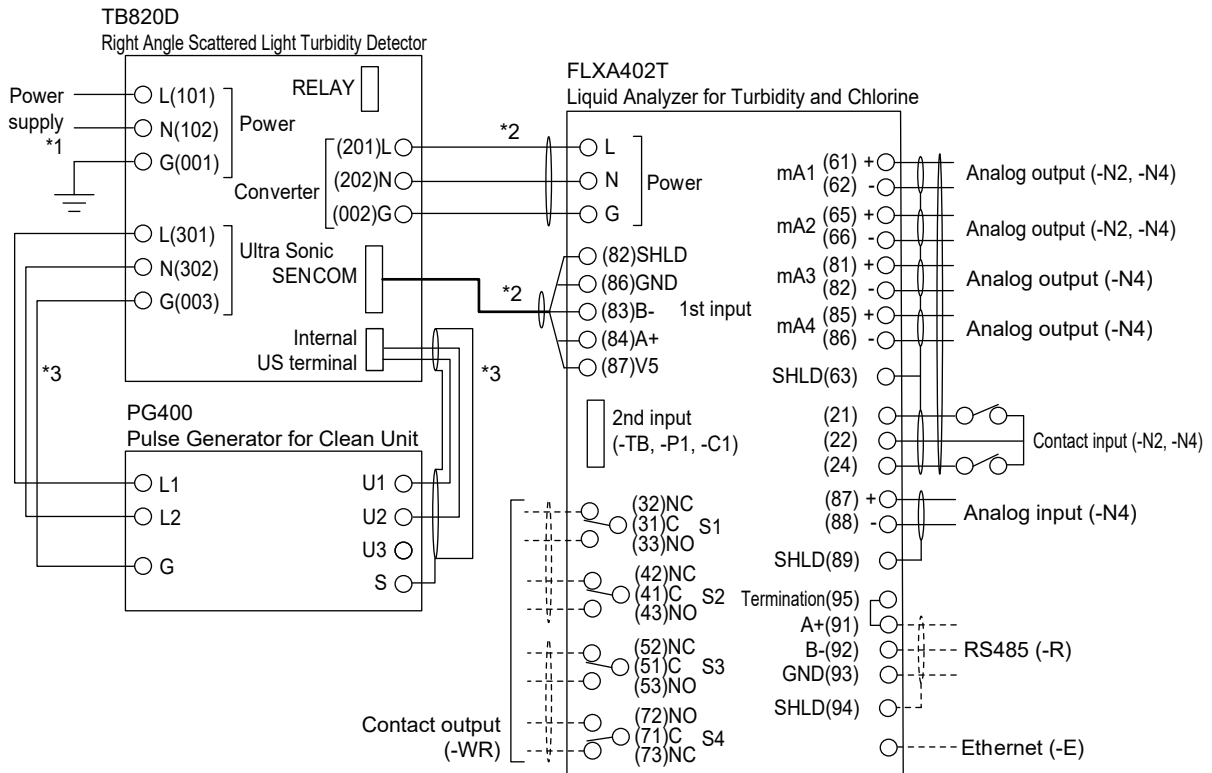
Relay box for solenoid valve (TB820D-□□-□□-A5-□□-□□-NN)



Unless otherwise specified, differences in the dimensions are specified as: General tolerance = \pm (Criteria of tolerance class IT18 in JIS B0401-1998)/2.

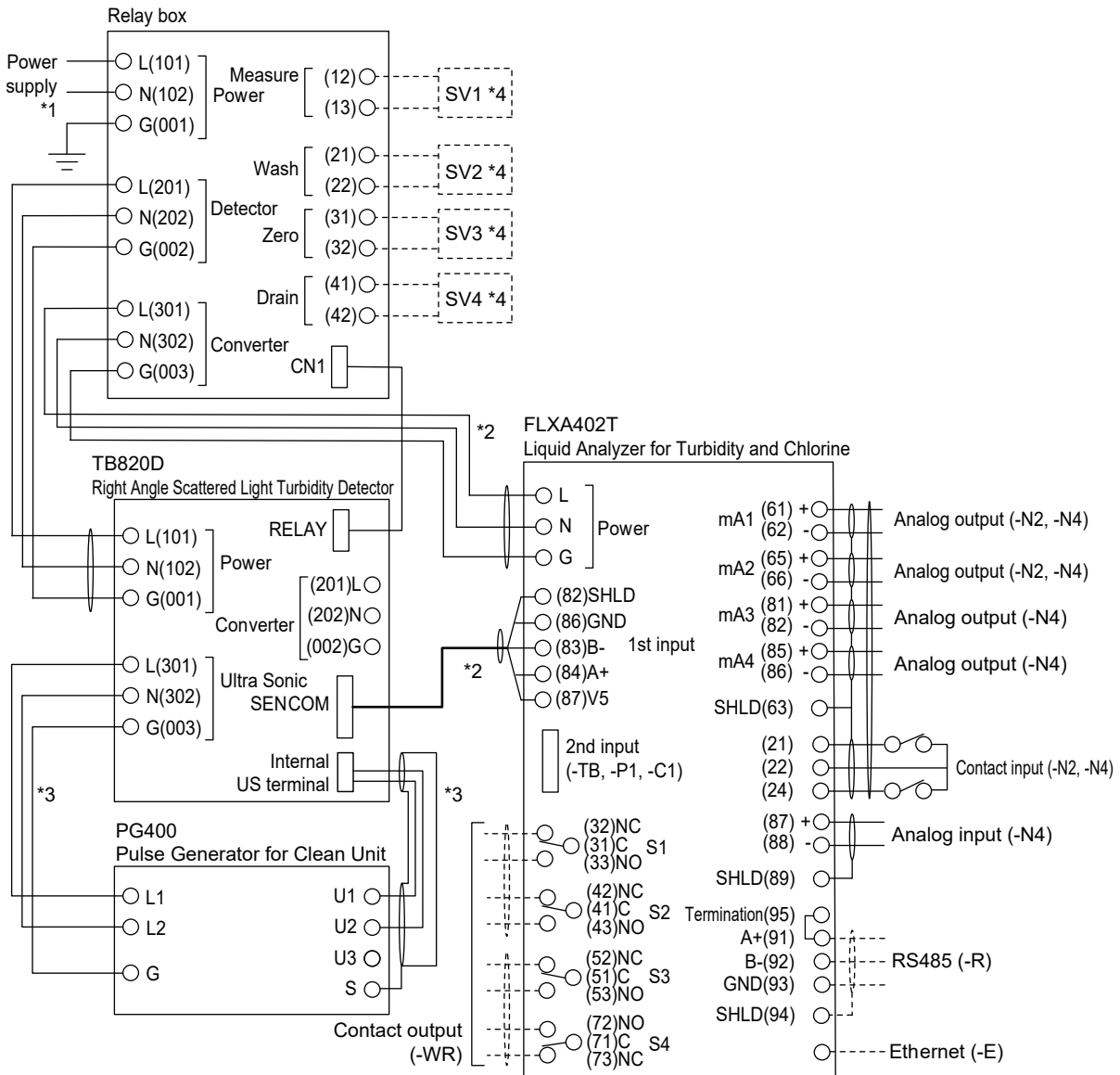
■ Wiring diagram

TB820D-□□-□□-NN



- *1: Power terminal "G" on TB820D must be grounded (ground resistance: 100 ohm or less).
In case of selecting -NN as Relay box for solenoid valve, power supply cable connects with L(101), N(102) and G(001) in TB820D.
- *2: The connection cables are 1 m in length normally.
They are available with /L02, /L03, /L05, /L10 or /L20 depending on the length you need.
- *3: When suffix code -U1 is specified, PG400 should be purchased separately.
Neither Ultrasonic oscillator cables nor power cable are supplied with the product. Purchase them separately.
See GS 19C01B05-01EN.

TB820D-□□-□□-A5

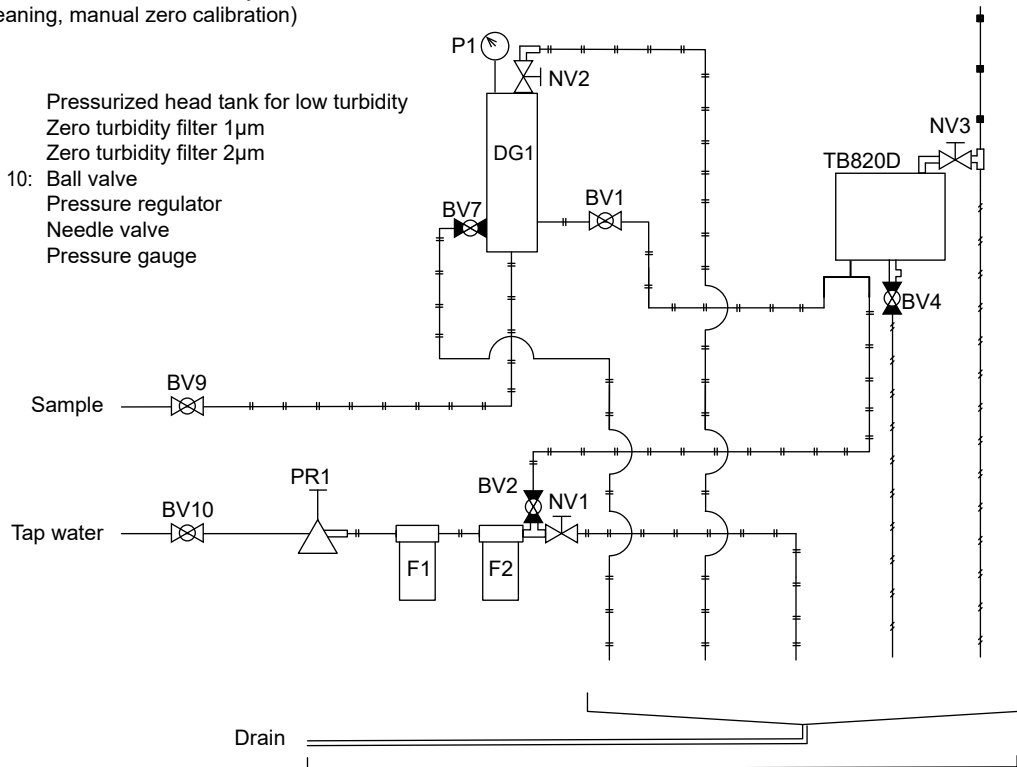


- *1: Power terminal "G" on Relay box must be grounded (ground resistance: 100 ohm or less).
In case of selecting -A5, power supply cable connects with L(101), N(102) and G(001) in Relay box.
- *2: Connection cables are 1 m in length normally.
They are available with /L02, /L03, /L05, /L10 or /L20 depending on the length you need.
- *3: When suffix code -U1 is specified, PG400 should be purchased separately.
Neither Ultrasonic oscillator cables nor power cable are supplied with the product.
Purchase them separately. See GS 19C01B05-01EN.
- *4: In case of selecting -A5, purchase the solenoid valve corresponding input power supply and frequency.
See ● Solenoid valve (SV1 to SV4).

■ Piping

Pressurized head tank for low turbidity /D1
(Manual cleaning, manual zero calibration)

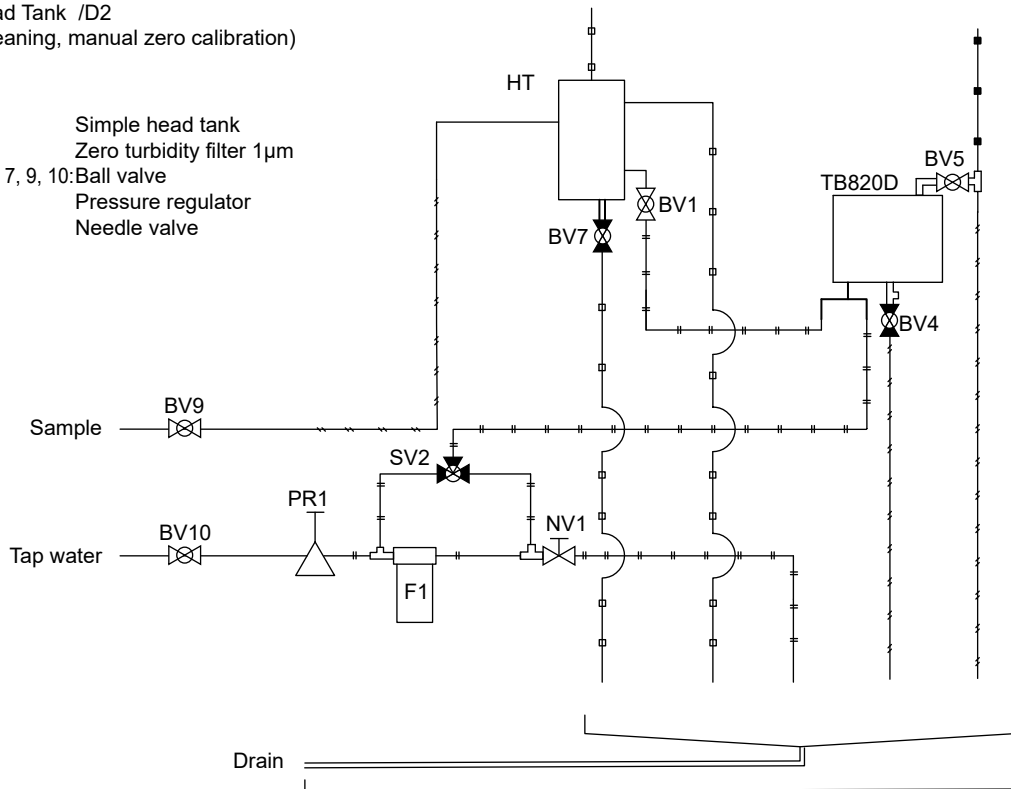
- DG1: Pressurized head tank for low turbidity
- F1: Zero turbidity filter 1µm
- F2: Zero turbidity filter 2µm
- BV1, 2, 4, 9, 10: Ball valve
- PR1: Pressure regulator
- NV1, 2, 3: Needle valve
- P1: Pressure gauge



- <PIPE> ———— ø8/ø6 Polyethylene tube
- ø12/ø9 Polyethylene tube
- /—/—/— ø22/ø15 Flexible mesh-reinforced tube
- ø26/ø19 Flexible mesh-reinforced tube
- x—x—x ø33/ø25 Flexible mesh-reinforced tube

Simple Head Tank /D2
(Manual cleaning, manual zero calibration)

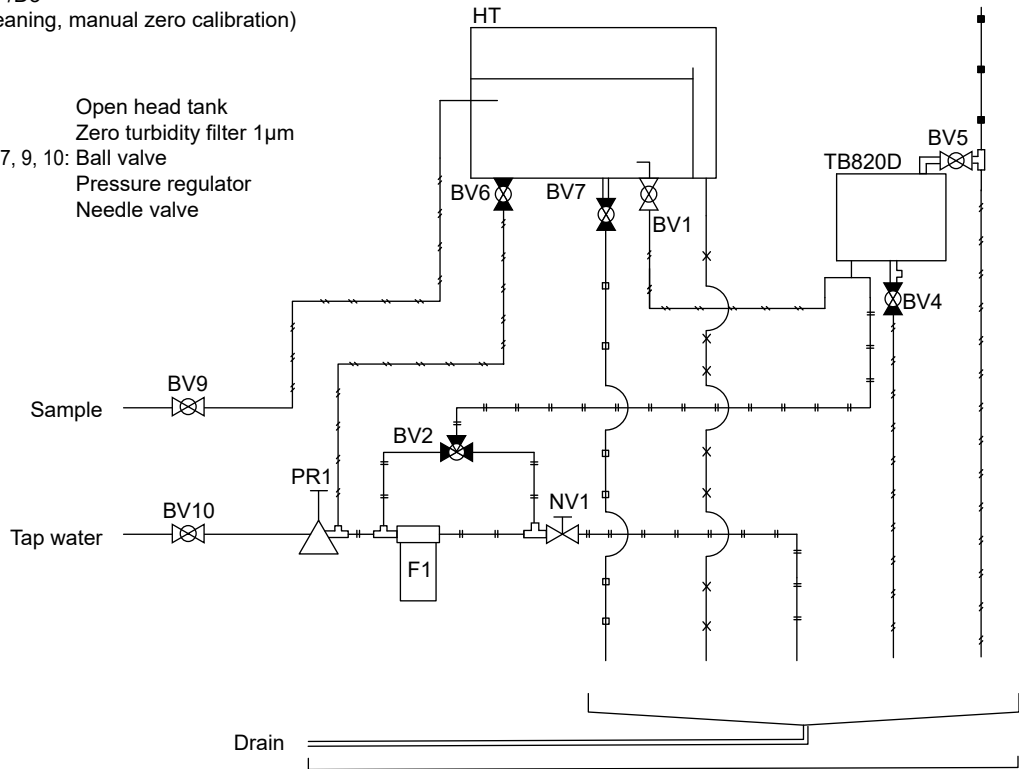
- HT: Simple head tank
- F1: Zero turbidity filter 1 μ m
- BV1, 2, 4, 5, 7, 9, 10: Ball valve
- PR1: Pressure regulator
- NV1: Needle valve



- <PIPE> ———— ϕ 8/ ϕ 6 Polyethylene tube
- ϕ 12/ ϕ 9 Polyethylene tube
- ϕ 22/ ϕ 15 Flexible mesh-reinforced tube
- ϕ 26/ ϕ 19 Flexible mesh-reinforced tube
- ϕ 33/ ϕ 25 Flexible mesh-reinforced tube

Head Tank /D3
(Manual cleaning, manual zero calibration)

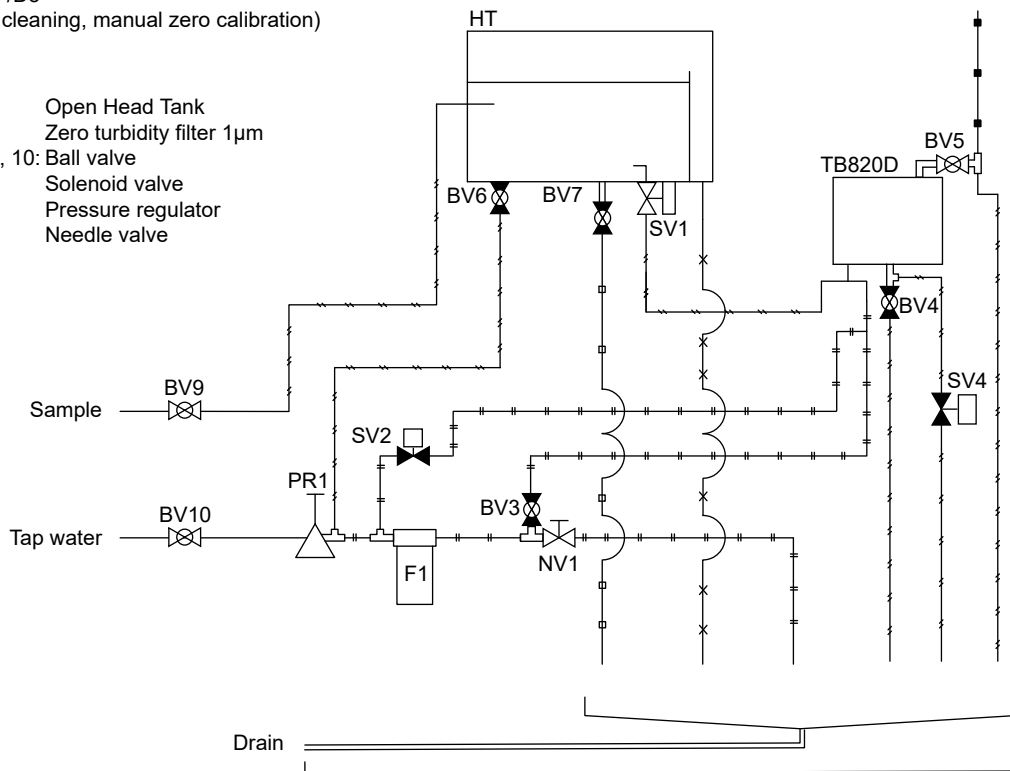
- HT: Open head tank
- F1: Zero turbidity filter 1µm
- BV1, 2, 4 to 7, 9, 10: Ball valve
- PR1: Pressure regulator
- NV1: Needle valve



- <PIPE> ———— ø8/ø6 Polyethylene tube
- ø12/ø9 Polyethylene tube
- ø22/ø15 Flexible mesh-reinforced tube
- ø26/ø19 Flexible mesh-reinforced tube
- ø33/ø25 Flexible mesh-reinforced tube

Head Tank /D3
(Automatic cleaning, manual zero calibration)

HT: Open Head Tank
 F1: Zero turbidity filter 1µm
 BV3 to 7, 9, 10: Ball valve
 SV1, 2, 4: Solenoid valve
 PR1: Pressure regulator
 NV1: Needle valve

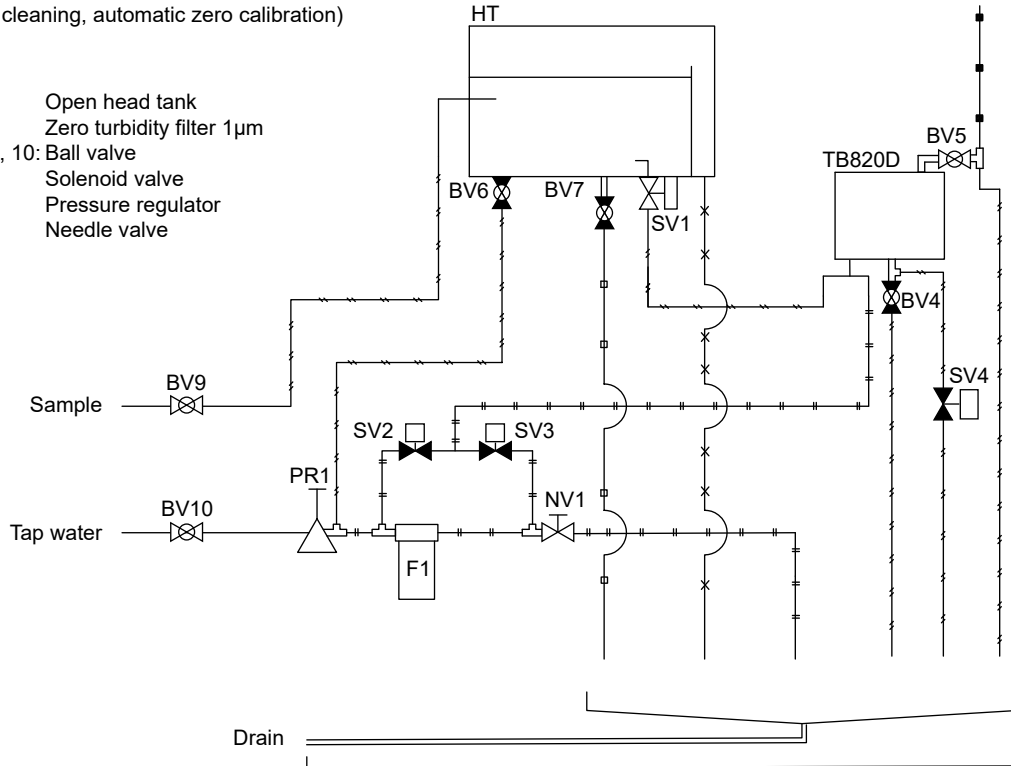


- <PIPE> ———— $\varnothing 8/\varnothing 6$ Polyethylene tube
 —■—■—■— $\varnothing 12/\varnothing 9$ Polyethylene tube
 ———— $\varnothing 22/\varnothing 15$ Flexible mesh-reinforced tube
 —■—■—■— $\varnothing 26/\varnothing 19$ Flexible mesh-reinforced tube
 —■—■—■— $\varnothing 33/\varnothing 25$ Flexible mesh-reinforced tube

Note: Regarding requirement of solenoid valve.

Head Tank /D3
(Automatic cleaning, automatic zero calibration)

HT: Open head tank
 F1: Zero turbidity filter 1µm
 BV4 to 7, 9, 10: Ball valve
 SV1 to 4: Solenoid valve
 PR1: Pressure regulator
 NV1: Needle valve

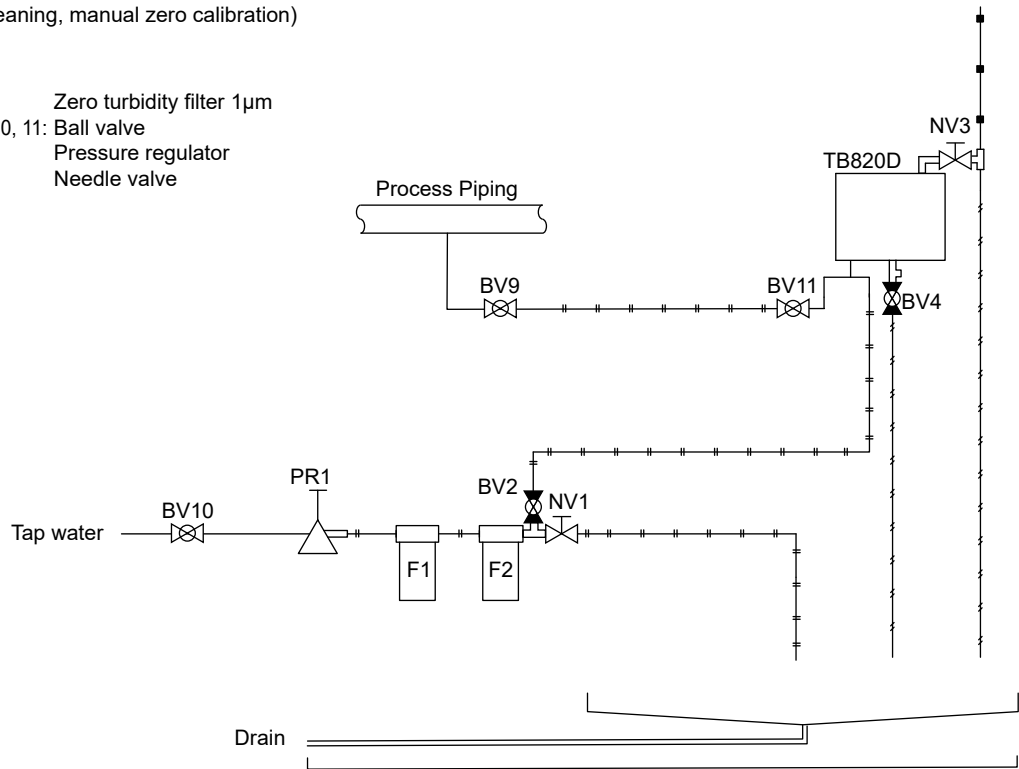


- <PIPE> ———— $\varnothing 8/\varnothing 6$ Polyethylene tube
 —■—■—■ $\varnothing 12/\varnothing 9$ Polyethylene tube
 ———— $\varnothing 22/\varnothing 15$ Flexible mesh-reinforced tube
 —□—□—□ $\varnothing 26/\varnothing 19$ Flexible mesh-reinforced tube
 —×—×—× $\varnothing 33/\varnothing 25$ Flexible mesh-reinforced tube

Note: Regarding requirement of solenoid valve.

Without head tank
(Manual cleaning, manual zero calibration)

F1: Zero turbidity filter 1µm
 BV2, 4, 9, 10, 11: Ball valve
 PR1: Pressure regulator
 NV1, 3: Needle valve



- <PIPE> ———— ø8/ø6 Polyethylene tube
 ———— ø12/ø9 Polyethylene tube
 ———— ø22/ø15 Flexible mesh-reinforced tube