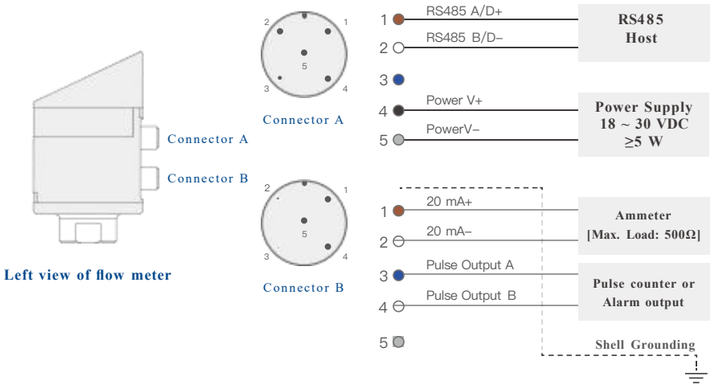


M12 Pin Definition

Electrical connector	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
Connector A	RS485 A/D+	RS485 B/D–	N/A	Power V+	Power V–
Connector B	20 mA+	20 mA–	Pulse Output A	Pulse Output B	N/A
FixInst Cable Color	Brown	White	Blue	Black	Grey

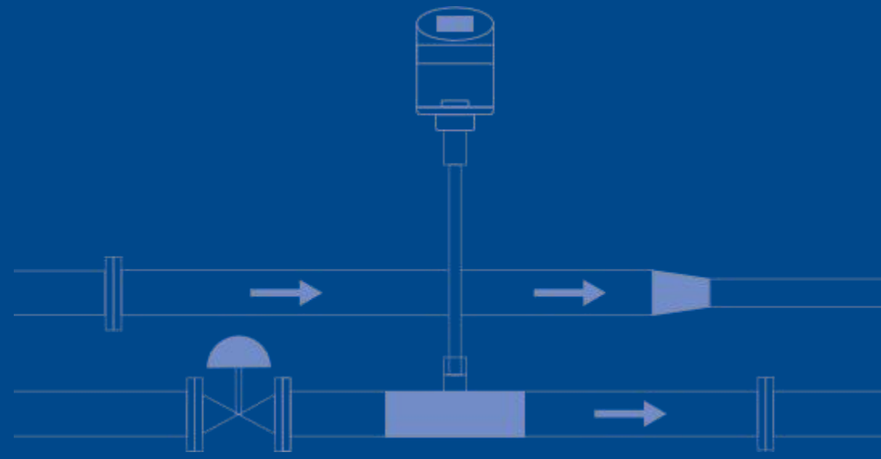
After the flow meter is installed, the following key settings must be completed based on the actual site conditions:

Pipe size (inner diameter), gas type, reference conditions, unit settings, 4~20 mA scaling settings and pulse output settings (if analog signal is used), RS485 parameter settings (if Modbus is used)

F221x & F222x Series

QUICK GUIDE

| Thermal Mass Flow Meter |



https://yua-instruments.com/

A: Room R2-B, Gaoxin Industrial Park, No. 206 Gaoxin South 7th Road, Yuehai Street, Nanshan District, Shenzhen, Guangdong, China

M: sales@yua-instruments.com

— Experts in Compressed Air & Fluid Measurement —

Pre-installation 01

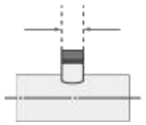
Installation of the flow meter requires a ball valve and a male foundation

Inner diameter ≥ 13 mm



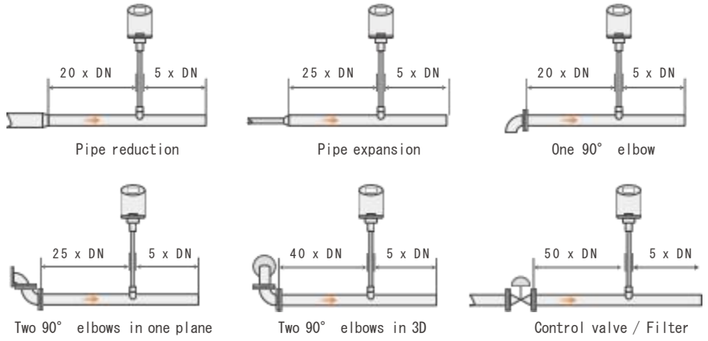
Ball valve should be full-pass type with G1/2″ female thread

Inner diameter ≥ 13 mm

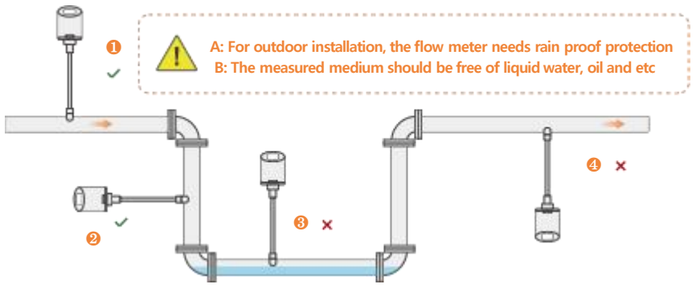


The nipple should be vertically welded to the pipeline, and the inner diameter of the ball valve and nipple should be ≥ 13 mm

Recommended inlet and outlet straight section (*DN : Nominal Diameter)



Installation direction and attention

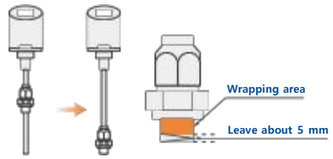


Installation 02

F221x Insert type

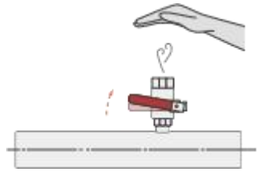
Wrap-around sealing tape

Adjust the fastening nut to the end of the rod, wrap the sealing tape (at least 20 turns), leaving 5mm above the sealing tape to prevent the tape from entering the pipe

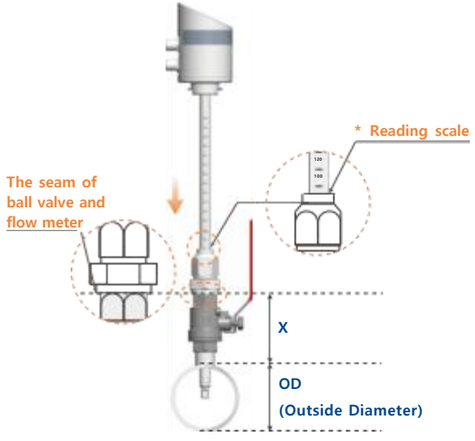


Check gas cleanliness

After confirming that the direct discharge of gas from the pipeline does not pose a safety risk, slightly open the ball valve to check whether the gas is clean, after confirming that it is clean, close the ball valve, clean the inner wall of the ball valve and ready for installation

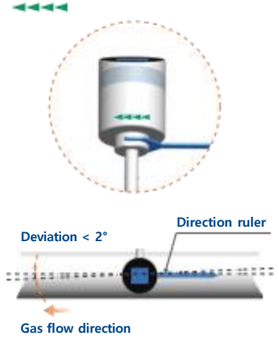


Flow Meter Insertion Depth = X + OD / 2



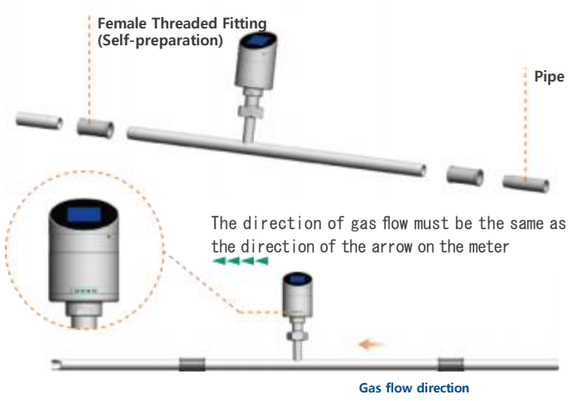
Horizontal calibration of the flow meter

The direction of gas flow must be the same as the direction of the arrow on the meter



Installation 02

F222x thread type



F222x flang type

