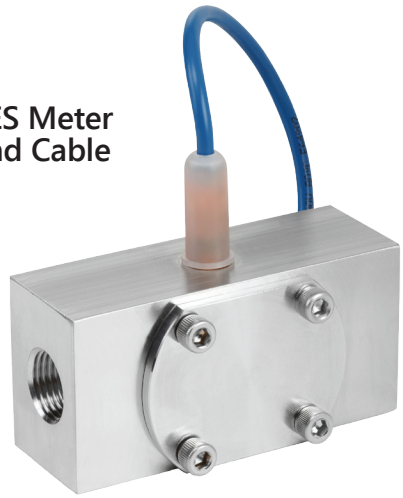
SES Stainless Single-Jet Meter Quick Start Guide

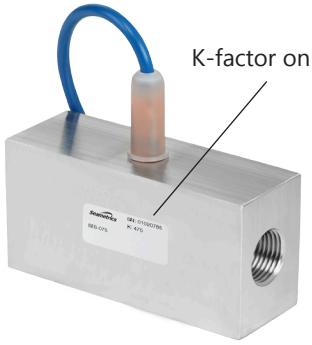
Components

SES Meter and Cable



K-Factor

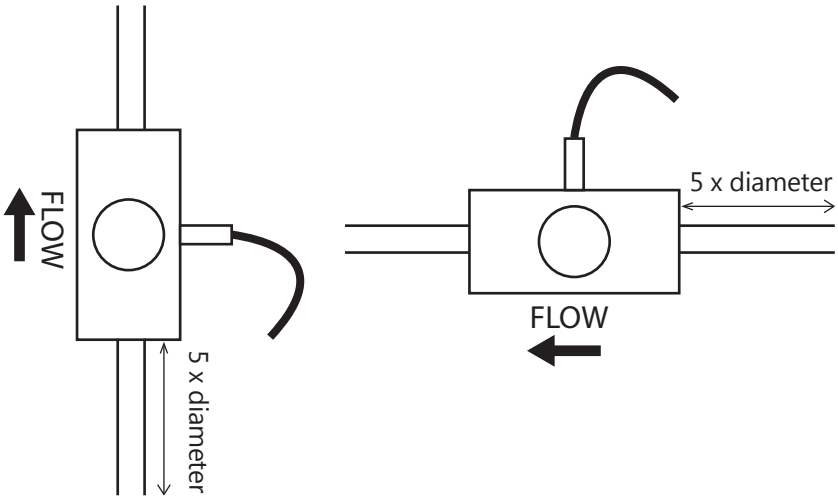
The meter is factory calibrated. The K-factor is found on the label on the meter body and must be input into the control/display for accurate reading.



Positioning

Vertical or horizontal installations are acceptable.

Straight pipe of at least five pipe diameters is recommended.



Warnings

- Do not test with compressed air—doing so will subject meter to rotational speeds many times those for which it was designed and will certainly damage the rotor, shaft, and/or bearings.
- When connecting to pipe, do not over tighten, especially when connecting to metal pipe.
- At least five pipe diameters of straight pipe is recommended upstream from the meter.

Connections

Connecting to Seametrics Control Devices

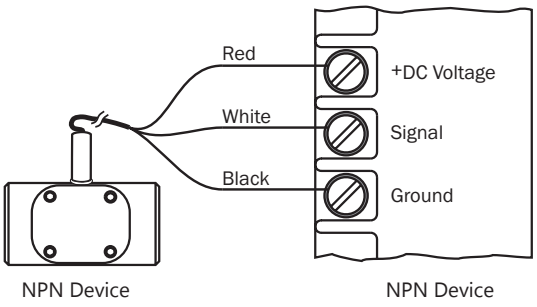
When connecting the SES to a Seametrics control device, refer to instructions that come with that device.

Connecting to Non-Seametrics Control Devices

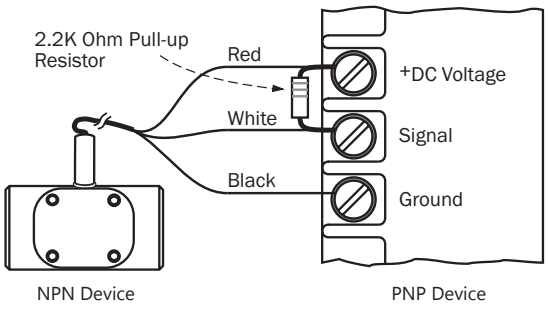
The SES is well suited for connecting to PLCs or industrial computer boards. They can typically be connected directly or with a single resistor. Requirements are as follows:

- PLC sensor power supply must be 5–24 Vdc (24 Vdc is typical)
- PLC sensor power supply must be able to provide at least 2 mA (100 mA is typical)
- The PLC frequency response is greater than the flow meter output response.

If PLC accepts input from current sinking devices (NPN)



If PLC accepts input from current sourcing devices (PNP)



For the most recent SES instruction manual please visit: seametrics.com/downloads.