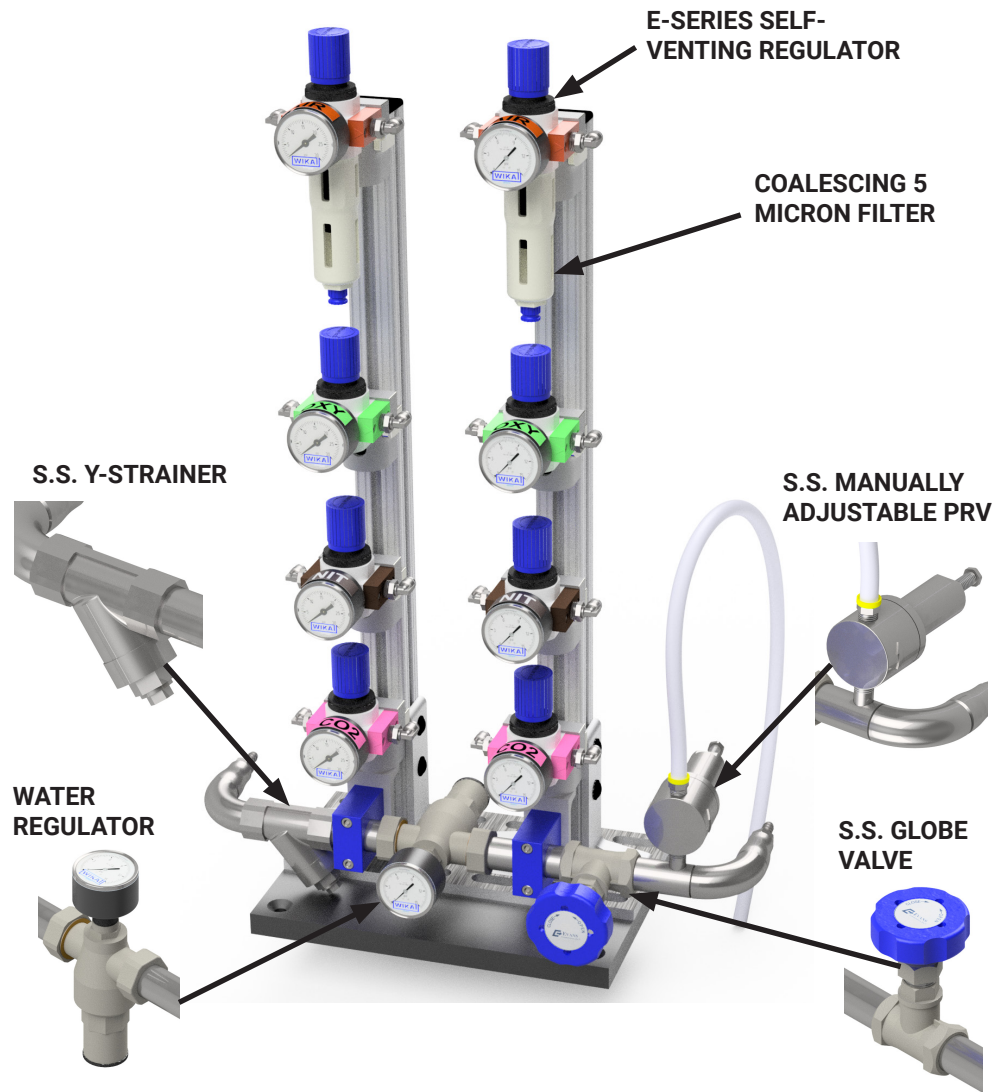


# Bio-reactor Regulator Tree (Sparge/Overlay)

Designed with "Safety and Process Control" in Mind

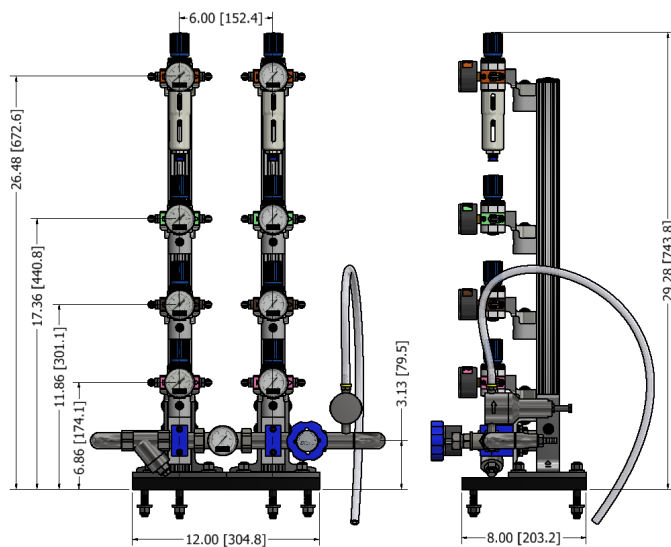


# Bio-reactor Regulator Tree (Sparge/Overlay)

Designed with "Safety and Process Control" in Mind

## Features

- Self venting E-Series medical grade regulators provide accuracy, safety and overall performance. When flow stops, downstream pressure is relieved.
- Y-strainer upstream of water regulator protects regulator from potential contamination that could lead to downstream pressure creep.
- Special PW-Series "low pressure" adjustable water regulator provides accurate and consistent downstream pressure for optimal performance of the Bio-reactor.
- Low pressure 316SS type diaphragm relief valve. The larger diaphragm area compared to piston style pressure relief valves provides much more accurate pressure control with very low hysteresis between opening/closing.
- Stainless steel multi-turn globe valve for precision flow control.



## Specifications

### E-Series Regulator:

- Maximum inlet pressure: 230 psig (16 bar)
- Operating temperature 32F (0C), 140F (60C)
- Outlet pressure adjustability: 5 – 175 psig (0.5 – 12 bar)
- Optional filter: 5-micron
- Aluminum body with (Nitrile/Buna N) diaphragm

### PW Series Water Stick Assembly:

- Stainless steel Y-strainer
  - 100 (149-micron) stainless mesh
- Low pressure adjustable regulator
  - 215 psig (15-bar) maximum working pressure
  - 7 – 58 psig (0.5 – 4 bar) adjustable outlet pressure range
  - Nickel plated brass body with Viton & (Nitrile/Buna N) high performance seals
  - Evans PWEA I.D. treated wetted brass components, wetted surface treatment prevents potential for stress corrosion cracking in aggressive water systems
- PW Series Globe Valve:
  - Maximum rated pressure: 215 psig (14 bar)
  - Maximum operating temperature (300F 48C)
  - 304SS body
- Stainless Steel "low pressure" Adjustable Pressure Relief Valve
  - 215 psig (15-bar) maximum working pressure
  - 0.50 – 35 psig (0.03 – 2.41 bar) adjustable outlet pressure range
  - 316SS body construction
  - EPDM diaphragm

**Part Number: GE-4GS-SPARGE-OVERLAY-R04**