

CANTY

PROCESS TECHNOLOGY

S.U.BIOCAM™ Sanitary Process Camera

Nickel Plated Aluminum NEMA 4X Construction



HOW IT WORKS

In Single Use Fermenters it is important to automatically control the amount of foam in the process. This will prevent over-dispense of foam, as anti-foam inhibits cell growth and requires downstream purification. The CANTY S.U.BioCam™ is a process camera engineered and designed for automatic foam control. Our camera attaches to the bag with our fitting, see datasheet TA11500-1088 for more detail on the fittings. The fittings can be ordered with the bags from bag manufacturers when designing the fermenter bag. S.U.BioCam™ gives a visual look inside the process, and with foam limits set up on VCM (datasheet TA11500-1034), the brain of the camera, it can be used for full control of foam via OPC or 4-20mA to the anti-foam metering pump. Controlling the foam will also prevent lost batches from foam overflowing or blocking filters. Automatic control of anti-foam will create optimal and repeatable runs.



SANITARY DESIGN

All models feature nickel plated aluminum construction and are NEMA 4x Weatherproof rated with fitting or cover attached. The S.U.BioCam™ features a strobe LED light source and high speed Ethernet camera which is externally supported from the single use bag.

The S.U.BioCam™ has two connection size options, 1.5" or 3" Tri-Clamp®. The 3" connection size has both camera and LED all in one housing, very easy to use and attach to one fitting on the bag. When utilizing the 1.5" connections the system requires two Canty fittings on the single use bag. For more details on the fittings please see datasheet TA11500-1088.

FEATURES

- Automatic control of anti-foam
- LED light source - maintenance free
- Prevent Lost Batches
- Limit over dispense of foam
- Less foam equals less downstream purification
- Reusable camera attaches to disposable fitting
- Internal heaters prevent condensation on disposable fitting
- Sanitary lightweight nickel plated aluminum housing
- Strobed light allows for optimized illumination without interfering with photosensitive processes
- System outputs via OPC or 4-20mA to a DCS or PLC for complete, closed-loop control
- Ideal system for foam detection - CantyVision™ can output and control the addition of anti-foam
- Stainless steel reactor models are also available

APPLICATIONS

- BioTech Reactors, Fermentors and Sterilizers
- Sterile Process Vessels
- Aseptic Tanks
- Sanitary Areas and Glove Boxes
- Portable Tanks
- Freeze Dryers
- Many, many more

SPECIFICATIONS

Power Req: 24V DC, 100-230V AC. 120W
Housings: NEMA 4X Sanitary, IP 66, Nickel Plated Aluminum construction
Wetted Material: See datasheet TA11500-1088
Connection: 1.5" or 3" Tri-Clamp®

CANTY

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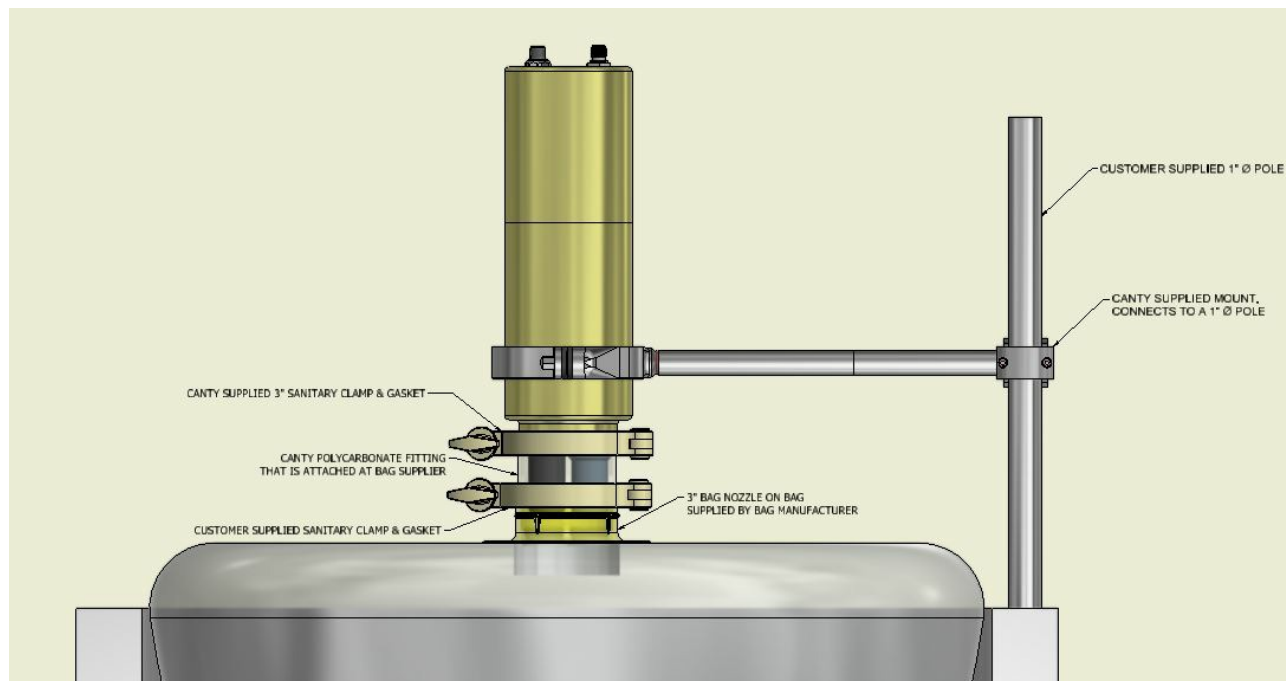
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Document P/N: TA11500-1046 Rev. 5c

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SYSTEM LAYOUT INFORMATION



HOW TO ORDER: Select the appropriate symbols and build a part number as shown:

Ordering Information

EXAMPLE:

SUB- H 2 1 1

MOUNTING CONNECTION

H - 1 1/2" (QTY 2 NEEDED)
L - 3" (QTY 1 NEEDED)

POWER

2 - 24V DC
A - 120V AC, 60Hz
B - 230V AC, 50Hz

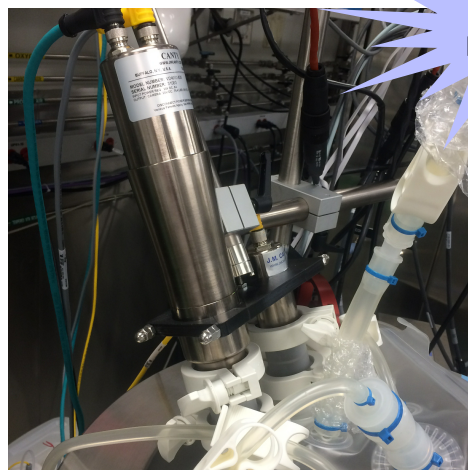
NUMBER OF CAMERAS

1 - ONE (1) CAMERA
2 - TWO (2) CAMERAS
3 - THREE (3) CAMERAS
4 - FOUR (4) CAMERAS
5 - FIVE (5) CAMERAS
6 - SIX (6) CAMERAS

VCM OPTION

1 - VCMEA-001* for use with up to six (6) cameras, 8-channel analog output.
3 - VCMLA-003* for use with one (1) camera, 8-channel analog output.
0 - No VCM, BioCam™ only to add to existing CANTY VCM setup.

*For other VCM options, see datasheet TA11500-1034



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