

# CANTY

## PROCESS TECHNOLOGY

### SUGARSCOPE™ PARTICLE SIZING SYSTEM



#### CANTY ADVANTAGE

The CANTY SUGARSCOPE™ is a high speed video system that captures and displays live video images of sugar crystals in a sugar pan under process conditions for blur-free, flicker-free process monitoring. The SUGARSCOPE™ features a unique, high magnification lens that views particles as small as 1 micron, manual zoom controls to widen the view angle to 1000 microns. No sampling is required - the process is continually monitored under pressure and temperature. CV / MA are monitored, displayed, and output to a PLC or DCS for complete control.

#### PARTICLE SIZING

- Crystal Distribution By Major, Minor Diameter, Area, Perimeter Available with Vector System.
- Crystal Size & Shape
- CA-MA (ICUMSA)
- Detection Of Seeding Problems
- Automated Temperature & Vacuum Controls During Crystal Growth
- Increased Efficiency During Filtration

#### APPLICATIONS

- Crystallizers
- Fermentation Applications – Optical Density/ Cell Count
- Mining-Flotation Cells and Thickener Tanks
- Web Inspection
- Fiber-Glass or Polymer Diameter

#### FEATURES

- Remotely view sugar growth from the comforts of a control room
- Fused Glass, High Pressure/Temperature Seal from process
- High resolution CCD cameras in Ethernet Output, B&W and Color
- NEMA 4 / IP66 Rated / Explosion Proof / Flame Proof
- 1-1000 micron crystals
- Adjustable Magnification Microscopic Zoom Lens
- Single Nozzle viewing/ illuminating
- Canty Vision Client software comes standard for particle size analysis on Vector Control Modules. See TA12100-1012 for more information.
- Output options- OPC, 4-20mA



#### SPECIFICATIONS

Video Format:.....Gigabit Ethernet

Ambient Temp:.....-30° to 50°C

Input Power:.....120V AC 60Hz,  
230V AC 50Hz,  
24V DC

Cable:.....Cat6 Ethernet

Environmental Ratings:..NEMA 4, IP66, EXP, FP

#### CANTYVISIONCLIENT™ SOFTWARE

The CANTYVISIONCLIENT™ Imaging software provides excellent analysis of seeding and seed control through the first half of crystallization to allow for real time control and optimization. The system provides seed concentration and size information in the first half of the process and continual viewing through the second half.

**CANTY**

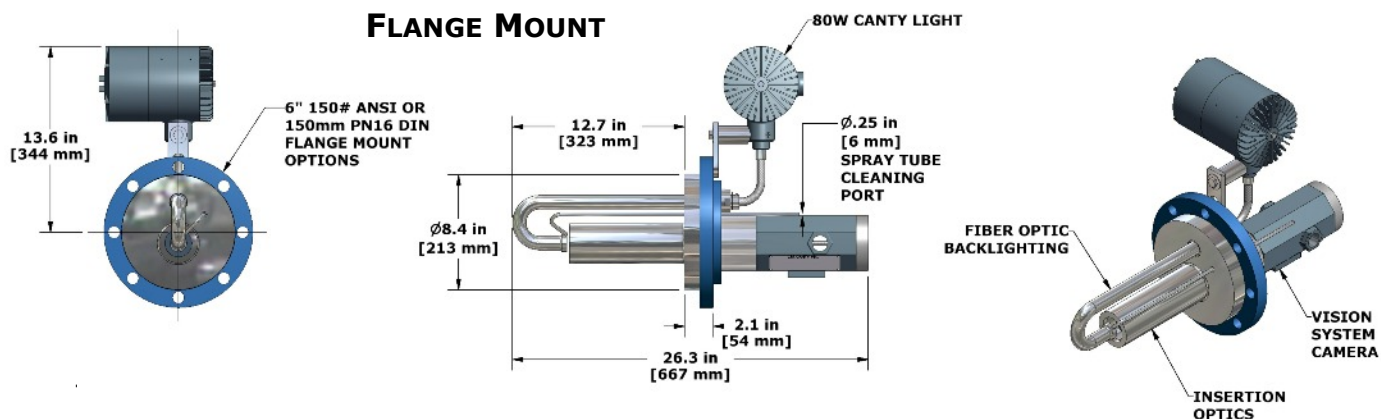
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## DIMENSIONAL INFORMATION

### FLANGE MOUNT



### Ordering Information

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

#### EXAMPLE:

**SUG - 6 F 1 A 1 V**

#### CONNECTION TYPE

- 6** - 6" 150# ANSI
- 7 - 150mm 16BAR DIN
- D - DSS Mount

#### VIDEO SYSTEM FORMAT

- E - Gigabit Ethernet (Color) - 2 Megapixel
- F** - Gigabit Ethernet (B&W) - 2 Megapixel
- G - High-Resolution Gigabit Ethernet (Color) - 9 Megapixel
- H - High-Resolution Gigabit Ethernet (B&W) - 9 Megapixel

#### ENVIRONMENTAL RATING

- 1** - NEMA 4 Weatherproof
- 2 - IP 66
- 3 - Explosion Proof (U.S. 120V)
- 4 - Flame Proof (Europe 230V)

#### O-RING MATERIAL

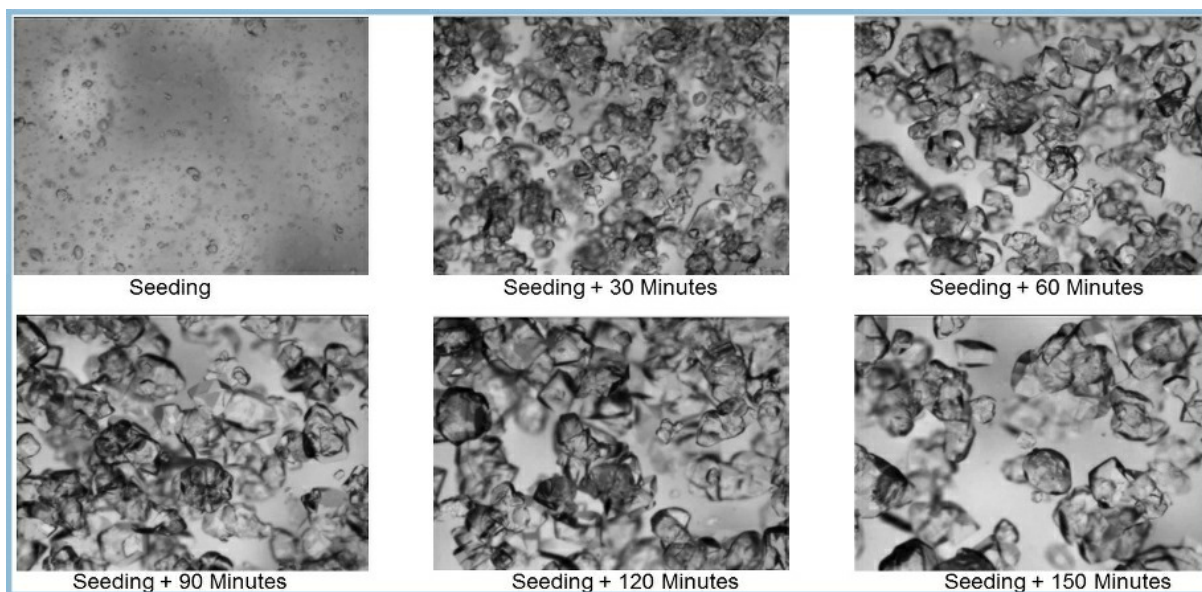
- V** - Viton®
- B - Buna
- E - EPDM
- S - Silicone
- N - NEOPRENE
- K - Kalrez®
- C - Chemraz®

#### WETTED METAL MATERIAL

- 1** - 316L Stainless Steel

#### INPUT POWER

- A** - 120 V AC / 60Hz
- B - 230 V AC / 50Hz
- C - 24 V DC



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