CANTY

SPRAY DRYER MONITORING SYSTEM

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Canty Spray Dryer Monitoring Systems are vision based, industrial camera / light combinations used to view spray nozzle patterns in real time. This allows operators to see changes in the profile of the spray pattern, and detect clogging before it becomes a problem. Operators can easily view for product build-up before there is a chance for fire.

This Vision System can be automated by the Canty Vector™ Image Processor to measure the size and shape of the spray pattern profile. Alarms can then be sent to the control system if nozzles clog or the spray pattern changes.

PARTICLE SIZE MEASUREMENT

The Canty Solid Sizer™ and Vector™ System can be used simultaneously with the spray nozzle monitoring system to determine the final product size. Particles ranging from .002” to .24” (50 micron - 6mm) are analysed using 2 dimension imaging software for true size and shape information.

Results can be sent to the control system, allowing pressure adjustments to be made automatically.

A full particle size distribution can be obtained or just critical measuring points. All results can be saved to a file for a historical record.

FEATURES

- Fiber Optic “Cold” Light Means No Product Bake-On
- Fused Glass Interface
- Multiplexing Video Inputs
- World Wide Approvals to FM, CSA, and ATEX
- Single Nozzle Viewing / Illuminating
- Remote Dimmer
- Spray Rings Available For Cleaning
- Multiple Outputs Such As 4-20mA, Or TCP/IP Interfaces Can Be Used

APPLICATIONS

- Dairy Powders
- Pharmaceutical Powders
- Tablet Coaters

MOUNTING CONNECTIONS

- Flanged
- Tri-Clamp®
- Dairy Fittings

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

**EXAMPLE:**

V6B21B61J - 18INS - CT-ST

**VISION SYSTEM**
- V - North American standard
- VE - European standard

**ENVIRONMENTAL RATINGS**
- 6 - NEMA 4 weather proof, IP66
- 7 - Explosion proof (US) or Flame proof (Europe)

**CAMERA OPTIONS**
- B - B & W camera
- L - Low Light B & W camera
- C - Color camera
- I - Infrared (near) B & W
- E - Ethernet Network Video camera

**LENS OPTIONS**
(Note: Some lenses are not available with certain mounting connections. Consult your binder for details)
- 2 - 56° (H) x 43° (V)
- 3 - 69° (H) x 53° (V)
- 6 - 41° (H) x 31° (V)

**CAMERA POWER SUPPLY OPTIONS**
1 - User supplies 120 V AC. Power supply in a non WP or EXP enclosure. User provides enclosure and switch as needed.
2 - No power supply required.
5 - User supplies 120 V AC. Power supply in a WP enclosure.
6 - User supplies 240 V AC. Power supply in an IP/ WP enclosure.
7 - User supplies 120 V AC. Power supply in an EXP enclosure. PSU enclosure is rated Class I, Div 1, Groups C & D.
8 - User supplies 240 V AC. Power supply in non WP or FP enclosure. User provides enclosure and switch as needed.

**WETTED MATERIAL OPTION**
- B - 316 L Stainless Steel*
- D - Hastelloy® C-276 or equal
- E - Hastelloy® C-22® or equal

**MAINTENANCE OPTIONS**
- CT - ST - Cooling Tube, Spray Tube (insertion lengths > 18”)

**INSERTION LENGTHS**
- 18INS - 18” [457mm] Insertion
- 24INS - 24” [610mm] Insertion
- 36INS - 36” [914mm] Insertion

**LIGHT OPTIONS**
- J - HYL 80 1SRDO (120 V)
- G - HYL 80 1SRDO (240 V)
- A - HYL 80 1SDO (120 V)
- N - Camera only - will not accept an integral light
- 0 - Combo w/ light - will accept an existing light (Note: Without a light source the camera cannot maintain WP or EXP integrity)

**NON WETTED MATERIAL**
- 0 - No flange required (if selecting a flanged model). Select this option when choosing NPT or Tri-clamp® models also.
- 1 - 150 # carbon steel ANSI flange
- 2 - 150 # 316L stainless steel ANSI flange
- 3 - 300 # carbon steel ANSI flange
- 4 - 300 # 316L stainless steel ANSI flange
- 6 - 16 Bar carbon steel DIN flange
- 7 - 16 Bar stainless steel DIN flange
- 8 - 10 Bar carbon steel DIN flange
- 9 - 10 Bar stainless steel DIN flange

**MOUNTING CONNECTION**
- 6 - 6" ANSI flange
- 8 - 8" ANSI flange
- 10 - 10" ANSI flange
- T - 8" Tri-clamp®
- S - 80FL165-80mm DIN flange

* Canty Reserves the right to upgrade to Hastelloy®, at their cost

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