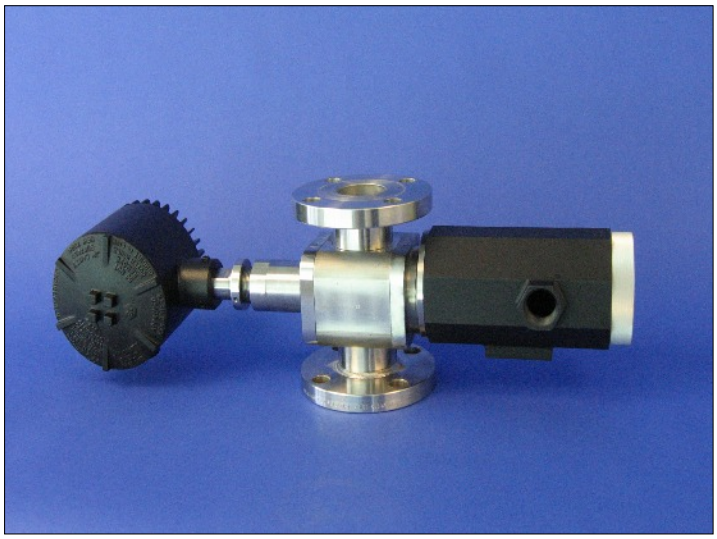
CANTY

PROCESS TECHNOLOGY

INFLOW™ - JET FUEL



JET FUEL ANALYSIS

The Canty Inflow™ is an excellent in-line tool to determine contamination in jet fuel. It does this by monitoring the particle size and count of water and solids. HAZE can be measured by the content of water per mL as well.

THE CANTY ADVANTAGE

The CANTY Inflow™ is a vision-based camera system used with the CANTY Vector System image processor for water in jet fuel and particles in jet fuel in a lab environment / at-line / in-line process. The presence of these two physical contaminants is dangerous to aircraft fuel systems and engines, and compromises performance and safety. The CantyVision™ Software accurately measures multiple aspects of the jet fuel from water / solids / gas independent of each other for accurate data. In comparison to back scatter or obscuration devices, which detect the presence of a solid or liquid without recognizing size or shape, CantyVision™ does assess the shape through its visual capacity and can discern between solid, water and gas. The customer can also visually verify the readings. Fuel contamination takes place mainly in transportation and storage. The current method of measuring jet fuel is the subjective visual inspection test. CANTY objectively takes the measurement and reports based on a two dimesional image. Solids and water content of the fuel are each monitored per ASTM D8049. Solids and water can also be monitored in-line on a continuous basis. By knowing whether there is a water or solids problem this helps the operators identify how to fix the problem. The Inflow™ is an in-line analysis system to make sure production samples are not skipped over!

FEATURES

- **Measuring Principal as per ASTM D8049 & D7596**
- PPM / PPB Values
- Particle Size Distribution Of Water / Solids
- 15 ft/s Flow Velocity
- Real Time Analysis
- Easy To Use For Operators And Lab
- Eliminate Errors Associated With Capacitance
- Eliminate Errors Associated With Laser
- Reduce Analysis Wait Time For Operators
- Particle Size = .7 Microns And Greater
- Visual Verification
- Complete Skid Mount Design
- All Data Is Stored On Excel Or In A Database

APPLICATIONS

- Refinery
- Tank Farm
- Airports
- Color & Haze Monitoring
- Lab / At-Line / In-Line
- Replaces Existing Laser Units
- Hydrocarbon Monitoring
- Many, many more!

BENEFITS

- Variable Line Sizes available From 1/2” - 10”
- Independent Reading Of Water & Solids
- Monitor Wax Crystals
- Record Video For Later Analysis
- Optional Save Video & Images If Needed
- Gallons per Minute Flow Rates
- **DIFFERENTIATES BETWEEN WATER AND SOLIDS**

SPECIFICATIONS

- Power: 120 VAC / 60 Hz (230 VAC / 50 Hz)
- Power: 24 VDC
- Ethernet Camera Resolution

ANALYSIS WITH CANTYVISION

- CantyVision™ System Can Measure And Control Your Process Parameters
- Inflow™ Systems Use A live Video Data
- CantyVision™ Can Perform Concentration / Particle Size / Count Functions
- Microsoft Windows Based Operating System
- Ethernet OPC or 4-20 mA Devices

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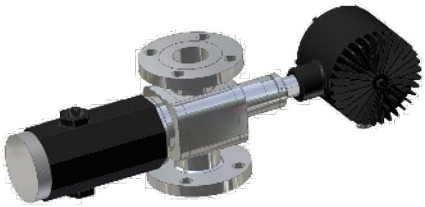
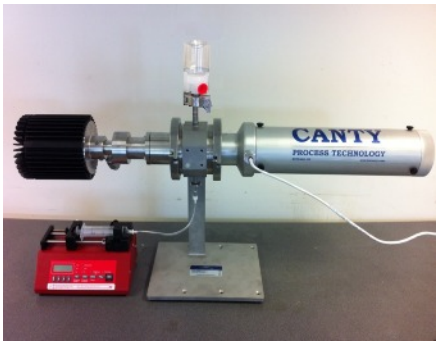
MOUNTING CONNECTIONS



FLANGE CONNECTION

SWAGELOK® CONNECTION



LAB- FUEL / LUBE OIL ANLYZER
DATASHEET (TA11500-1008)

SHORT LOOP SAMPLER®
DATASHEET (TA11500-1027)

Notes:
1. Camera and Light PSUs are not shown but must be located within 100 feet of the unit. The Camera Power Supply enclosure has the same environmental rating as the system.
2. CantyVisionClient™ Software is included but the customer provides the PC which is not included with the system. Reference Document TA10592-1 for computer requirements.

Ordering Information

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

EXAMPLE: **V J 6 C 1 1 1 A A 1 V**

CONNECTION TYPE	
B -	Swagelok®
C -	Flange (ANSI/DIN)
E -	NPT (Female)

CONNECTION SIZE			
0 -	1/2" (12.7mm)	4 -	4" (100mm)
1 -	1" (25mm)	6 -	6" (150mm)
5 -	1.5" (38mm)	8 -	8" (200mm)
2 -	2" (50mm)	9 -	10" (254mm)
3 -	3" (80mm)	A -	12" (305mm)

WETTED METAL MATERIAL	
1 -	316L Stainless Steel
2 -	Hastelloy® C276 or equal
3 -	Hastelloy® C-22® or equal
4 -	Carbon Steel

NON-WETTED METAL MATERIAL(PRESSURE BEARING)	
0 -	Carbon Steel
1 -	300 Series Stainless Steel

INTERNAL SEAL MATERIAL			
B -	BUNA	N -	NEOPRENE
V -	VITON®	K -	KALREZ®
S -	SILICONE	C -	CHEMREZ®
E -	EPDM		

ENVIRONMENTAL RATING	
1 -	NEMA 4 WEATHERPROOF
2 -	IP 66
3 -	EXPLOSION PROOF
4 -	FLAME PROOF

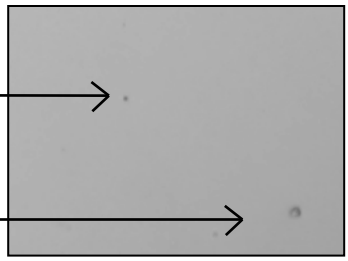
ANSI OR DIN PRESSURE RATING / FLANGE PATTERN			
ANSI		DIN	
A -	150 PSI	D -	10 BAR
B -	300 PSI	E -	16 BAR
C -	600 PSI	F -	25 BAR
Consult factory for pressure rating up to 10,000 PSI.			

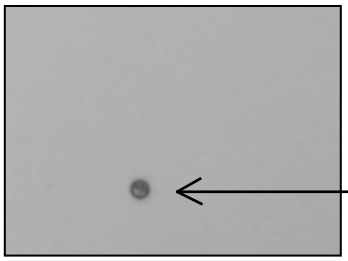
INPUT POWER	
A -	120 V AC / 60Hz / 250W
B -	230 V AC / 50Hz / 250W

SOLIDS IN JET FUEL

SOLID PARTICLE

SOLID PARTICLE





WATER IN JET FUEL

WATER DROPLET

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