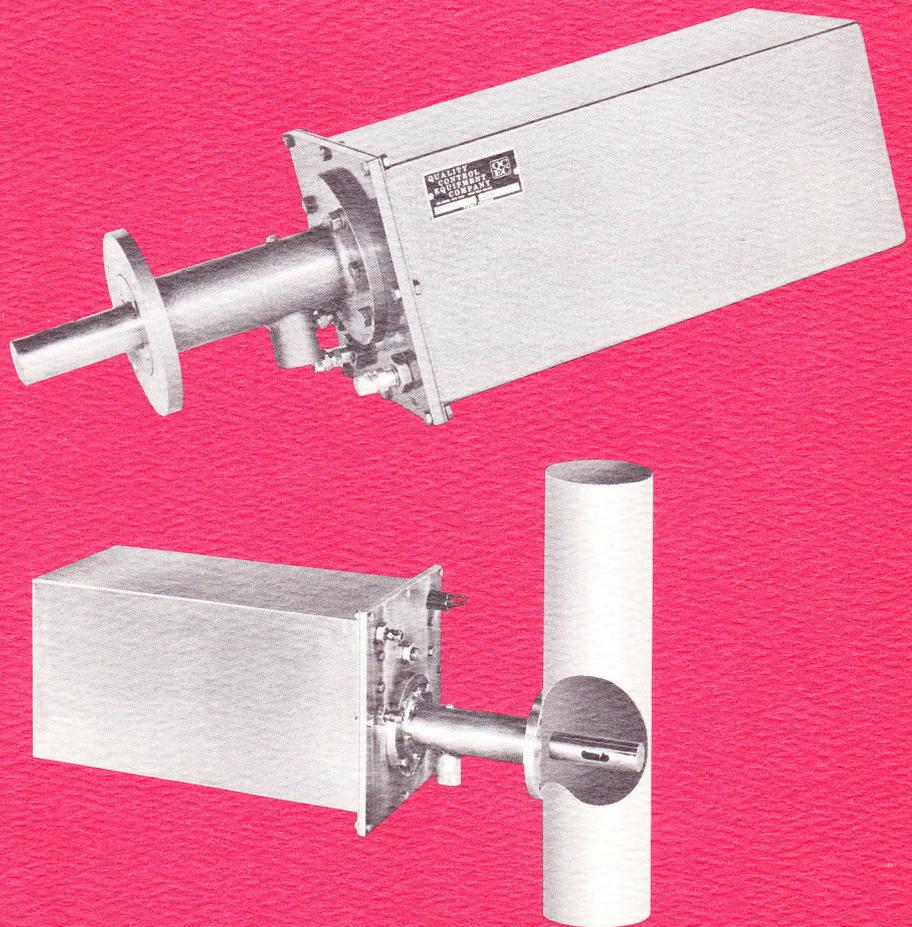


**quality control**

# automatic sampler

## model RT-RTA2

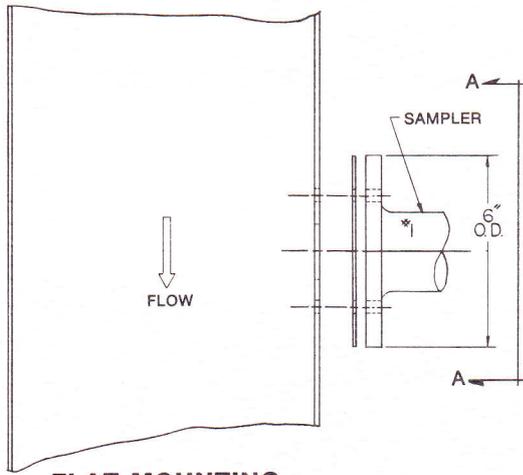
to sample from pneumatic lines and  
conveyors, either positive or negative



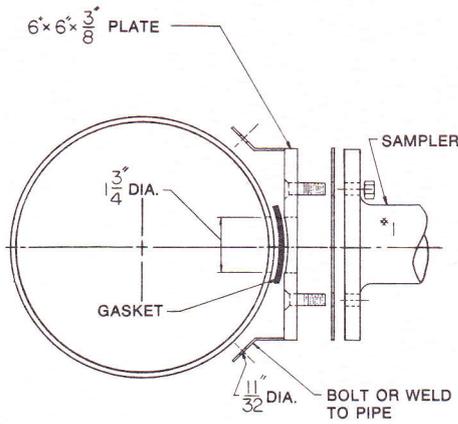
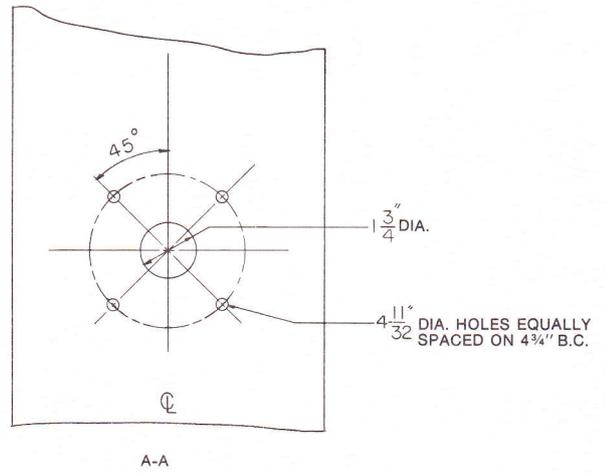
## retractable tube sampler

Quality Control Equipment Company

# quality control

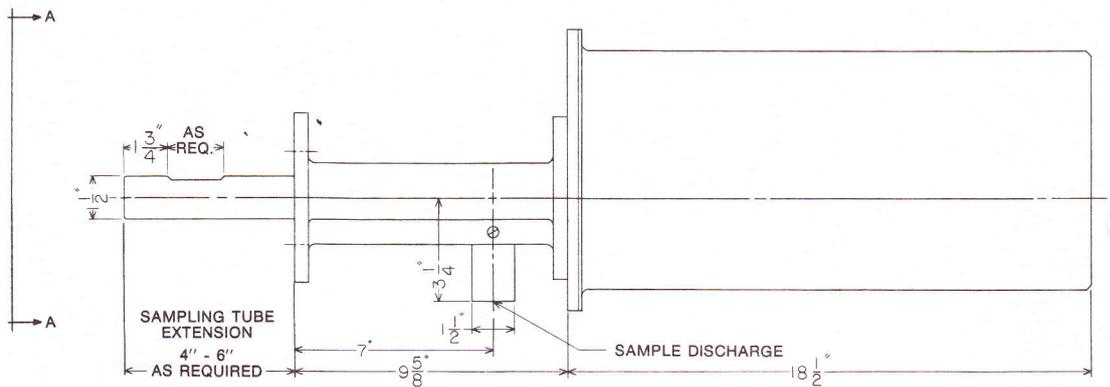


**FLAT MOUNTING**

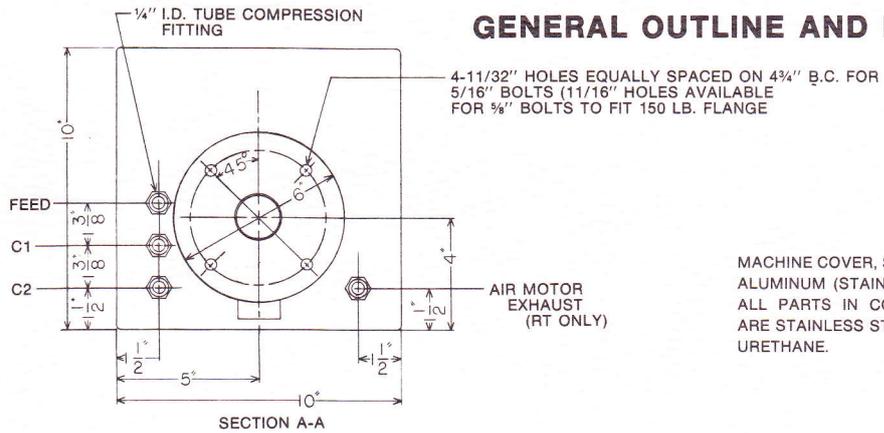


**ROUND PIPE MOUNTING**

Mounting flanges are flat-faced for mounting on flat surfaces, and are furnished with suitable gaskets. For mounting on round pipes or chutes and sloping hopper sides, round mounting adapters or angled filler blocks are required. These are available as optional extras in plain or stainless steel. Units may be factory-mounted in pipe or duct sections at our plant. These are optional, extras built to your specifications.



**GENERAL OUTLINE AND DIMENSIONS**



MACHINE COVER, SPOOL & FACE PLATE ARE ALUMINUM (STAINLESS STEEL AVAILABLE). ALL PARTS IN CONTACT WITH MATERIAL ARE STAINLESS STEEL, TEFLON, NYLON, OR URETHANE.

# model RT-RTA2

## retractable tube sampler

The Model RT-RTA2 samples automatically process streams that are under either positive or negative pressure. Accurate, frequent samples from pneumatic lines or conveyors are obtainable on-stream without interruption of the pneumatic conveying system. Fully automatic, all functions are easily adjustable.

Installation can be on round or flat surfaces, horizontal or vertical lines, regardless of material flow direction. Adaptable for use in gravity flow systems as well as pressurized lines, it may be mounted on rectangular or round ducts and pipelines, or through the wall of a tank or hopper. Size and frequency of samples is completely adjustable.

The basic Model RT discharges the sample by an air motor-driven auger. With the Model RTA2 the sample is ejected by a controlled jet of air.

\* The unique air-ejection system was developed for one of the world's largest chemical companies, and is covered by United States and Canadian patents. (U.S. Patent #344910; Canadian Patent #897991).

In either ejection system, the sample is completely discharged. There is no

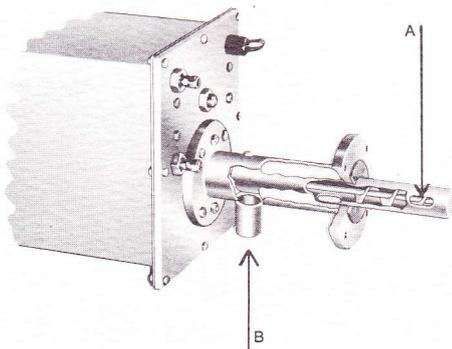
carry-over, no degradation of product. With the RTA2, where the sample is ejected by a jet of compressed air, the pressure of the air jet is adjustable to meet varying conditions. In both systems, the duration of sample removal time is also adjustable and completely automatic.

### SYSTEM OPERATION

Upon a signal from the variable interval timer control, or other source, the sampling tube extends into the conveying line. Here it dwells for a short, adjustable, pre-determined period. The sample is trapped in a suitably sized cavity in the sampling tube. The tube automatically retracts and ejects the sample.

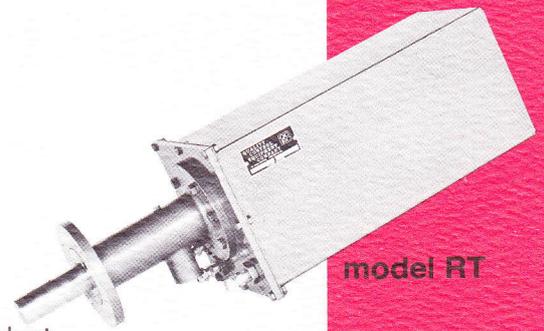
The Model RT-RTA2 sampler has a simple, maintenance-free design. There is no metal-to-metal contact between parts. All parts in contact with the product are of stainless steel, nylon®, teflon®, or urethane. Completely explosion-proof, it is all air operation. The machine may be changed in the field to auger discharge or to air ejection system.

The Model RT-RTA2 will sample granules, powders, chips, flakes, pellets, and certain liquids and slurries.

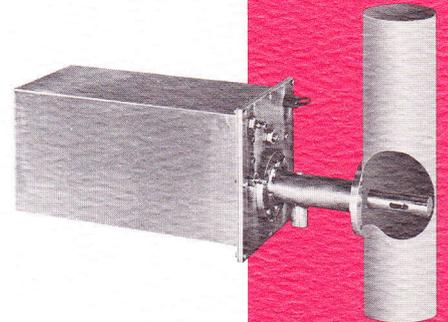


A-Product enters when sample tube is projected into material line.

B-Product is discharged by an auger (RT) or by an air ejection system (RTA2) when sample tube is retracted from the line.



model RT



model RTA2

# engineering data

model RT-RTA2

**Power Requirements:** 35 to 60 p.s.i. compressed air for sampler operation. 120v-60 HZ-single phase current required for controls. Other voltages and 50 cycle operation available.

**Actuators:** Double-acting air cylinder for sampling tube extension. Speed controlled gear head air motor for Model RT auger drive.

**Sampling Tube:** 1½" OD with sampling slot as required. Stainless steel is standard. Tube extension from 4" to 6."

**Auger:** 1⅜" dia. x 1½" pitch stainless steel.

**Sample Outlet:** 1½" OD stainless steel, plain end.

**Seals, Bearings, and Packing:** Teflon®, Nylon®, Delrin®, or Urethane, as required.

**Housing, Spool, Mounting Flange:** Aluminum, stainless steel available.

**Air Fittings:** ¼" NPT

**Mounting Flange:** Standard 150# 2" pipe flange drilling. Flat-faced 6" OD, furnished with gasket. For mounting on round surfaces, a round mounting adaptor is required and is available as an option.

**Enlargement Transitions:** Optional and recommended when mounting sampler in lines smaller than 4 inches.

**Control Panel:** Variable interval timer and tube dwell timer are quickly replaceable "plug-in" types.

**Weight:** Sampler, 40 lbs.; Control Panel, 16 lbs.



## timed interval control box

The standard timed interval control box provides a wide range of time cycles. Single station control panels are suitable for individual sampler installations. Also available are multiple station panels to give centralized control over a group of samplers. NEMA 4x enclosure is standard. Explosion-proof optional. Controls are available in 115/220 VAC.

## professional consultation engineering assistance

Printed in U.S.A.

Quality Control's experienced engineers will be happy to give you professional consultation and assistance to meet your particular sampling or monitoring needs. We're as close as your telephone—or we'll be happy to have one of our representatives call on you for on-site assistance.

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榎野産業株式会社

本社・工場 〒124 東京都葛飾区東四ツ木2丁目11~8  
電話 (03) 691-8441(代表)  
第二工場: テスト工場: 茨城工場: 千葉工場

Company

, Iowa 50309