



QUANTUM SAMPLER

Quantum Isolatable Automatic Sampler

U.S. Patent Pending • Canadian Patent Pending

Double Block and Bleed



QUANTUM ISOLATABLE AUTOMATIC SAMPLER

Features

- Industry accepted and approved Delta Double Block and Bleed, ANSI rated Knife Gate valve (300#). Class IV shutoff enables sampler removal while process remains in service. Delta valve is used widely throughout the Oilsands and other mining applications.
- Easy to maintain — plunger extends to provide access to wrench flats and seals
- Easily field replaceable internal wear sleeve and process seals.
- CRN# provided on all components.

Description

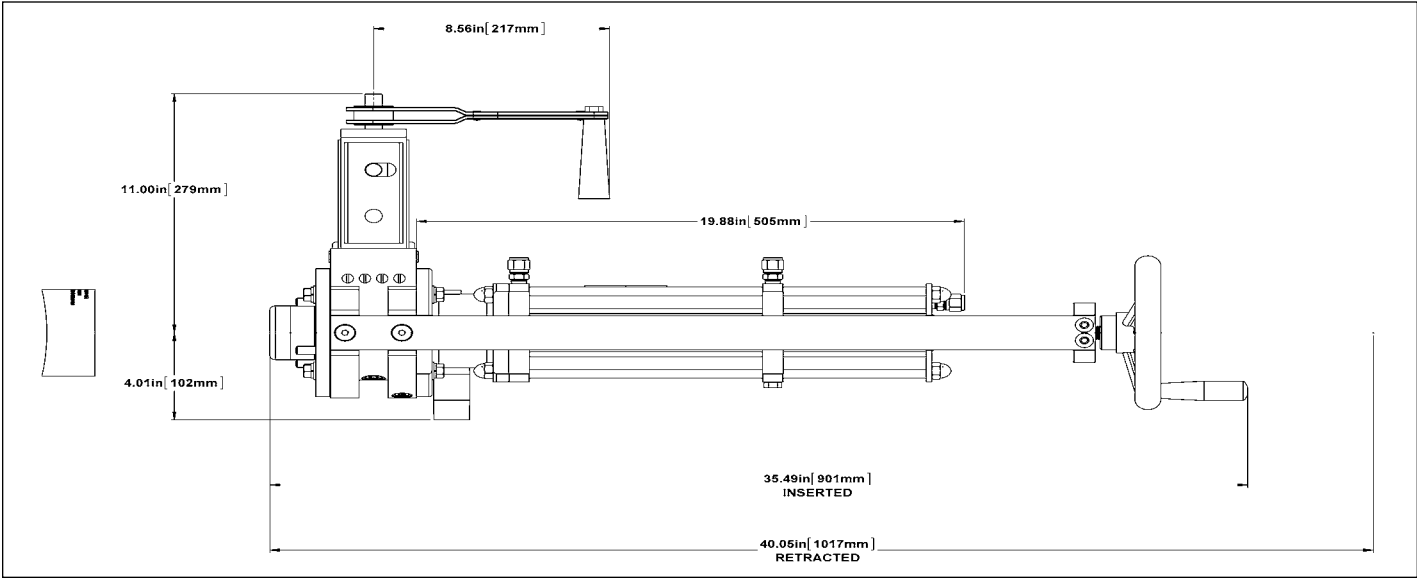
The Isolatable Quantum sampler uses the same proven technology which has been in use on the Non-Isolatable *ISOLOK*® Sampler for years - while, at the same time, incorporating the use of an industry proven and accepted Delta Knife Gate Valve to isolate the sampler from the process line when the sampler needs servicing.

The sampler actuator is manually inserted into and through the knife gate valve by simply turning a hand wheel and is then bolted onto the gate valve. The sampler is operated by standard plant compressed air and controlled by either your plant DCS/PLC or we can supply a simple time-based controller to suit your application.

Options

- Port closures
- Several types of containers
- Sampler enclosures (with or without heater)
- Sample heating or refrigeration
- Optional materials of construction and seal choices
- Mounting adaptor to retrofit onto existing *ISOLOK*® SAB and SAL-B ports.

TECHNICAL DATA



SPECIFICATIONS

Sample Volume per Cycle	10 or 25 cc per cycle
Maximum Particle Size	5 mm (0.2")
Line Mounting Options	Line adapters designed and supplied by Sentry; line adapters available in stainless steel (hard facing available as option)
Wetted Materials of Construction	316, 431 and 17-4 PH stainless steel
Actuator and Static Seals	FKM, PTFE and NBR
Plunger Seals	NBR, EPDM, HNBR or Durethane
Net weight, not including controller or accessories	Removable (actuator) portion: approx. 52 lb. (24 kg) Valve: approx. 29 lb. (13 kg)
Canadian Registration Numbers (Alberta only)	Sampler: 0C12012.2 Line adapter: 0A6872.2 Gate Valve: 0C04023.2
CRN Pressure and Temperature Rating	720 psi @ 100°F (49.6 bar @ 38°C) 500 psi @ 450°F (34.4 bar @ 232°C) maximum

	Compressed Air Required		Operating Pressure (with corresponding air pressure)	
Minimum	60 psig	4.0 bar	300 psig (process) @ 60 psig (air)	20.7 bar (process) @ 4.0 bar (air)
Recommended	80 psig	5.5 bar	400 psig (process) @ 80 psig (air)	27.5 bar (process) @ 5.5 bar (air)
Maximum	100 psig	6.9 bar	400 psig (process) @ 80 psig (air)	27.5 bar (process) @ 5.5 bar (air)

WARNING

It is solely the responsibility of the end-user, through its own analysis and testing, to select products and materials suitable for their specific application requirements, ensure they are properly installed, safely applied, properly maintained, and limit their use to their intended purpose. Improper selection, installation, or use may result in personal injury or property damage.



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