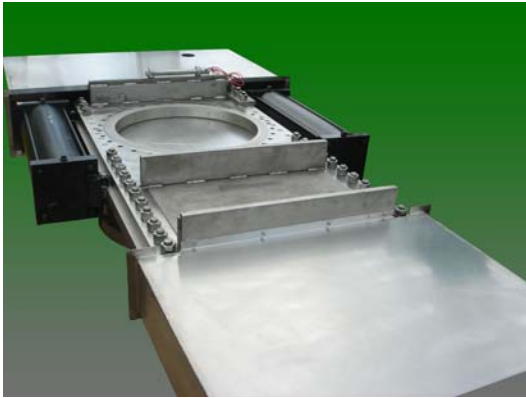




STAINLESS VALVE CO.

May 2013

Stargate-O-Port-Valve® *The Solution*



30" 300# Stargate-O-Port-Valve® Big Cap

The Problem

The biomass processing industry has a multitude of applications where the demands of the process are not well serviced by commodity valve products. Custom specialty valve solutions are required for reliable performance and low maintenance. Application problems can vary from solids accumulation, sticky scale formation from organic materials in gases, and corrosion from hot acids. While this is not nearly a complete list of problems, you are surely aware of the difficulties that commodity valve products present in a variety of services across different sectors of the biomass energy industry.

The Solution

Stargate-O-Port-Valve® is ideally suited for the more demanding applications in various process applications where ball valves are typically and erroneously considered the only option. Variables such as temperature,

pressure, precipitating materials, flow characteristics, and process chemicals are all taken into consideration to custom design the valve to the application.

Roughly one half of the applications that SVC has been involved with in the biomass energy industry have been to replace poor performing ball valves and high nickel alloy valves. Using the basic concept of the Stargate-O-Port-Valve® together with a combination of coatings, seat and packing design, and valve internal features the shortcomings of commodity valve products are easily overcome and, in some instances, at an attractive cost vs. similar ball valves.



DN400 PN40 Stargate-O-Port-Valve® on wood pellet reactor capping application

Applications

The Stargate O-Port® AS valve is installed in a variety of applications within the biomass energy industry.

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STAINLESS VALVE CO. Inc. - Division of B+E Manufacturing Co. Inc.

4811 Persimmon Ct., Monroe, NC 28110, USA

al@stainlessvalveco.com 1-704-231-4148

<http://www.stainlessvalveco.com>



company is certified ISO9001:2008 / Certificate No.: CERT-009075



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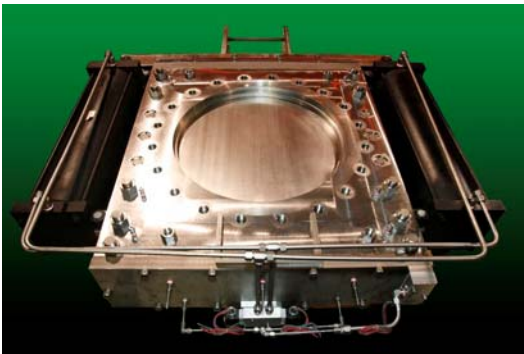
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- Advanced wood Pellet reactor capping and blow down valves. High pressure steam and woody biomass. Tight shutoff. Replacing ball valve. SS316L
- 2nd Gen Cellulosic Ethanol reactor capping and discharge valves. Hot acid and abrasive biomass slurry. Tight shutoff. Replacing ball valve. A20
- 2nd Gen Cellulosic Ethanol feed hopper isolation valves. Hot acid vapors and biomass slurry. Tight shutoff. Replacing ball valve. Duplex 2507 and C276
- 2nd Gen Cellulosic Ethanol process isolation valves. Hot acid and abrasive slurry. Replacing ball and gate valves. C22 and C276
- RDF gasification hopper feed valves. Dry, solid refuse derived fuel. Replacing gate valve. SS304L

Contact SVC

We invite your inquiries into how the Stargate O-Port-Valve[®] can resolve your most difficult, critical, and unique valve application issues within the biomass energy industry.

The Stargate-O-Port-Valve[®]
...Solutions Realized!



24" Big Knife for RDF solids; Pneumatic lift seal for tight shutoff

This is a sampling of projects that SVC has had successful implementation of the Stargate-O-Port-Valve[®] concept adapted to the specific requirements of the application.

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