

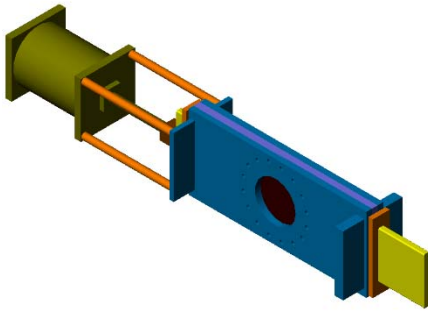


STAINLESS VALVE CO.

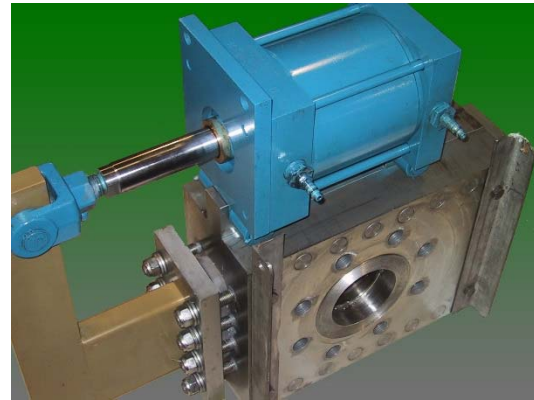
September 2016

Stargate-O-Port-Valve® AS The Solution to the Sticky, Scaling Problem

applications are the same and SVC applies this experience to the valve design specific to each application. Variables such as temperature, pressure, precipitating materials, flow characteristics, and process chemicals will dictate different configurations of design features.



10" 300# Stargate O-Port-Valve® AS (Inserted Design)



4" 1500# Stargate O-Port® AS with "High Build"

The Problem

When scale formation occurs on the moving elements of ball, butterfly, plug, or gate valves the consequence is either locking of the valve movement or damage to the valve seats, guides and packing along with the consequent leaking through or out of the valve.

The Solution

Since its development in 1995 the Stargate-O-Port-Valve® AS anti-scale valve has eliminated scale formation concerns and related issues in a variety of industrial settings. Using a combination of coatings, seat design, and valve internal features, the negative aspects of scale formation or sticky flow media are mitigated. Experience tells us that no two scale forming process

The Stargate-O-Port-Valve® AS anti-scale valve is installed in a variety of applications including mine dewatering isolation, food processing, liquor heaters, lime storage, and fly ash bins with great success. One application in a hydrometallurgy autoclave for a gold mine 12" knife gate valves were used that had to be replaced every six weeks. The customer has installed Stargate-O-Port-Valve® AS anti-scale that provided 6 years of reliable service without refurbishment. The Stargate-O-Port-Valve® AS anti-scale valve has exhibited similar results in other applications involving sticky or scaling materials that tend to seize or damage other valve designs and configurations.

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4811 Persimmon Court
Monroe, NC 28110, USA
bigvalve@stainlessvalveco.com 1-704-231-4148
<http://www.stainlessvalveco.com>



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Example of metallic scale formation. Valve in service in partial open position



Scale removed without damage to sealing surface

As the Stargate-O-Port-Valve® AS anti-scale is applied to more unique, critical, and demanding applications where scale formation is the cause of many valve failures with standard valves, the Stargate-O-Port-Valve® AS anti-scale has evolved even further. The older versions of the AS valve feature inserted body and blade assemblies that eliminate material contact with the metal component of the valve body. FEP and PFA coatings were also used in older designs. SVC has moved beyond the commodity coatings solutions offered under a variety of fancy monikers. The modern Stargate-O-Port-Valve® AS anti-scale uses not only the

latest in coating and plating technology and knowledge, but also unique seat designs/materials, along with a variety of internal configurations to combat the negative effects of scale formation. The Stargate-O-Port-Valve® AS anti-scale does not rely on mechanical scrapers, secondary processes, or constant maintenance to provide reliable and consistent performance.

Where to use

The Stargate-O-Port-Valve® AS anti-scale services applications where standard valves require oversized actuators, purge ports, or chemical acid cleans in order to counteract the effects of scale formation and maintain a semblance of reliability. The Stargate-O-Port-Valve® AS anti-scale is compatible with gas, liquids, solids, and corrosive/abrasive slurries at temperatures up to 1000F in both low pressure and high pressure applications.

We invite your inquiries into how the Stargate-O-Port-Valve® AS anti-scale can provide solutions in a variety of industrial settings from **Mining** and **Food** industry to the **Pulp** and **Petrochemical** industries. The Stargate-O-Port-Valve® AS anti-scale is the solution for your most difficult applications involving scale and severe service conditions.

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