

10,000psi Choke Valve

EGC Seal Design

Stem Seal: S19495



Case studies

Valve Overview

Valve Type	Choke Valve
Stem diameter	38.02 mm (2.125 in)
Housing Diameter	38.02 mm (1.497 in)
Design Pressure	690 bar (10,000 psi)
Min. Temperature	-46°C (-50.8°F)
Max. Temperature	85°C (185°F)

Challenge

A major valve OEM requested a custom seal design to allow their existing choke valve to perform at higher temperature and pressure to fulfill an existing order. As there was not the usual time required to develop and qualify such a sealing system, they turned to EGC to provide a proven seal design with a history of field success.

The EGC Solution

EGC Critical Components experts recommended a design similar to a previously qualified seal which had been showing high-performance on another valve application.

EGC quickly delivered the newly designed stem seal, resulting in successful operation of the choke valve in the field. From December 2015 to December 2017, the EGC stem seal has been installed in more than 50 valves across multiple locations and is continuing to operate without issue.

For nearly 60 years, EGC Critical Components has designed, engineered, and manufactured plastic valve components delivering high performance sealing solutions.

From cryogenic liquid natural gas (LNG) to high pressure / high temperature (HPHT) service to tight fugitive emissions sealing, EGC has the experience, expertise, and technology to ensure your most critical parts meet your performance requirements.



In-depth Solutions

EGC Critical Components is a designer and manufacturer of custom plastic and elastomeric products. As a part of the global group Fenner, we partner with clients to produce unique solutions in a multitude of energy industries, including power generation and nuclear, LNG, energy transportation, petrochemical and refining.



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