

High-pressure urea regulating valve C-4800 & C-2311 series

Introduction

Parker Valve specializes in providing dedicated control valves for urea plants. This series of products has been successfully applied in over 200 urea plants worldwide, achieving very satisfactory results.

The unique design and manufacturing technology of the C-4800 and C-2311 series regulating valves endows the products with exceptional performance, a longer trouble-free service life, and minimal maintenance requirements. The simplified design concept of urea-specific regulating valves from Parker Valves, coupled with the correct selection of various component materials, is the fundamental factor behind their remarkable global achievements.

The material of the regulating valve is fully suitable for urea and ammonium carbamate liquids, and complies with the material technical specifications of major urea process providers, such as Snamprogetti, Stamicarbon, UreaCasale, and other process providers.

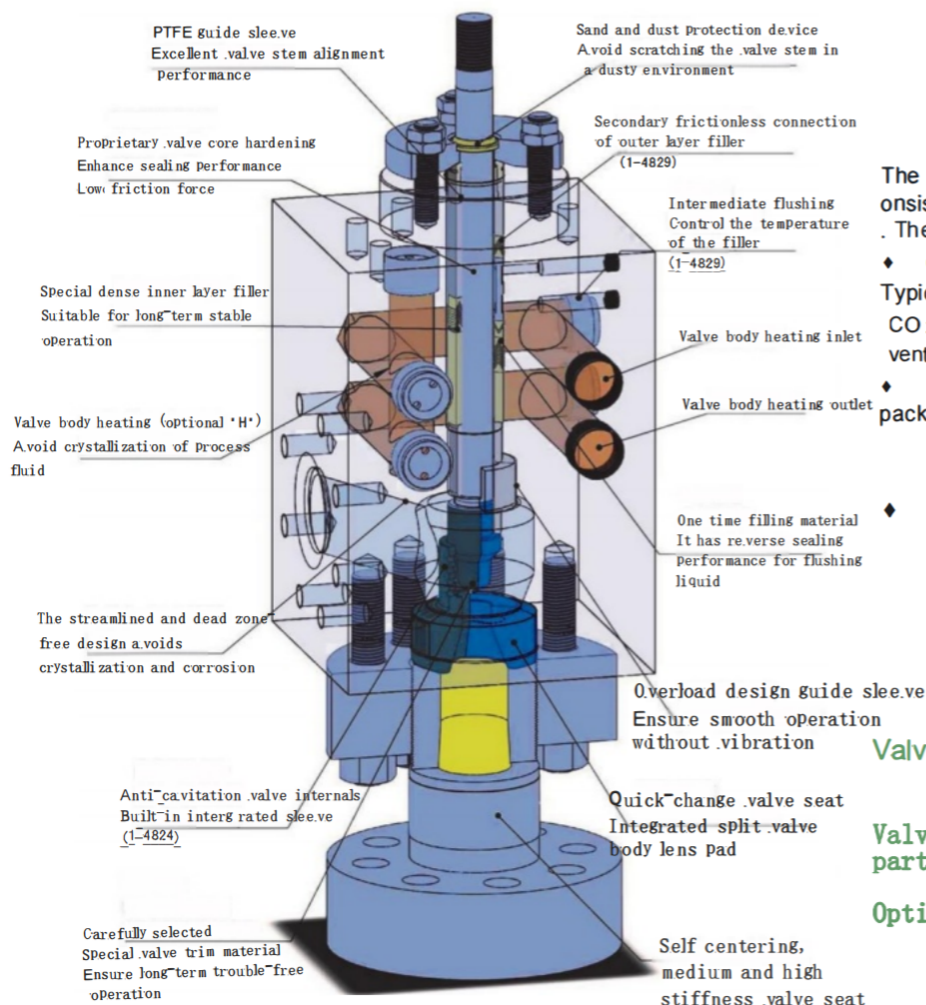
The port connection is directly machined onto the valve body, reducing the weight of the valve and eliminating any internal dead zones.

In fact, dead zones are a significant factor contributing to corrosion, as the enhanced corrosive effect of ammonium carbamate primarily occurs in areas without oxidation protection (passivation).



C-4800 series high-pressure angle valve

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The basic structure of the C-4800 series angle control valve consists of a contour-imitating valve core and a split valve body. There are three models:

- ◆ C-4827: Universal urea high-pressure regulating valve
Typical applications:
CO₂ enters the synthesis tower, which is then vented, producing carbamate and liquid ammonia.
- ◆ C-4829: Contour-fitting valve core with intermediate packing flushing
Typical application: lower discharge of stripping tower.
- ◆ C-4824: Two-stage anti-cavitation valve internals, sleeve-valve seat
Integrated structure (\leq DN6"),
Typical application: Recirculation of carbamate pumps (minimum flow regulation).

Valve body material: A182F316LUG
25Cr22Ni2Mo

Valve internal parts material: HVD-1
Ferrallium

Optional: Steam heating of valve body



Contact us:

Ada Ban

TEL: +86 18612115236

E-Mail: banmy@bjafatech.com

Beijing Afa Trading Co., Ltd

<http://www.bjafatech.com/>

北京阿伐商贸有限公司

Beijing Afa Trading Co., Ltd

