

DA-CIV w/Variable Orifice Regulator

Chemical Injection Components



Applications:

- Severe, corrosive environments
- High volume chemical injection
- Wide range of setting depths

Benefits:

- Designed for a 20+ year life cycle
- Accommodates high flow rates without eroding seal closure
- Predictable operation

Features:

- Robust design
- Proven flapper design, used for 40+ years in safety valves
- Simple choke mechanism

Description:

The Tejas DA-CIV is a Chemical Injection Valve designed to close in the most severe operating conditions, where reliable closure is mandatory and preventing hydrocarbons from the production tubing to flow back to the surface via the injection tubing or annulus.

The DA-CIV is installed in the annulus with special clamps to the tubing and is connected to the wellhead via a dedicated injection tubing and communicates to the tubing via a ported injection sub.

The DA-CIV is modular in design and can be ordered in tandem for double redundant seals preventing back-flow.

A Back-Pressure Regulator with Variable Orifice can be run in conjunction with the injection valve to provide a minimum cracking pressure to draining of the injection line, when well bore pressure decreased to abandonment pressure.

The DA-CIV is rated to 10,000-psi working pressure and is constructed with metal-to-metal seals for reliable long term operational performance.



DA-CIV
Injection Valve
Open Position



Q1-0099

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Engineering Data:



Flow Area (Bore)	0.168 [107.5]	In ² [mm ²]
Flowtube Travel	0.960 [24.4]	in [mm]
Overall Length	36.540 [928.1]	in [mm]
Max. OD	2.375 [60.3]	in [mm]
Min. ID	0.462 [11.7]	in [mm]
Lower Connection	0.750 [19.1]	in [mm]
Hydraulic Connection	0.750 [19.1]	in [mm]

Secondary Accessories:

Repair Kit	TBD	---
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Operating Data:

Max. Differential Pressure	10,000 [68,948]	psi [kPa]
Max. Differential Operating Pressure	10,000 [68,948]	psi [kPa]
Working pressure	10,000 [68,948]	psi [kPa]

Materials:

External Parts	Inc-625 or better	---
Soft Seat	Moly-Filled Teflon, 5%	---
Wiper Ring	Moly-Filled Teflon, 5%	---

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† The engineering data provided illustrate the scope of this product offering and are not all inclusive. Additional sizes and pressure ratings are available upon request.

Direct request for quotations to: product.sales@tejasre.com

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Enlarged Flow Diagram:

