

# SCF SERIES | FOR SUPERCRITICAL FLUIDS

*Regulators and valves optimized for use in supercritical applications*

*We have been working in conversation with supercritical systems engineers to optimize a new series of regulators and valves for use in supercritical fluid applications. Premier Industries **SCF Series** regulators and valves are elastomer free, designed to stand up to the aggressive, solvent-like qualities of supercritical fluids like  $s\text{CO}_2$ , while providing reliable and precise pressure regulation in the most demanding application conditions.*

## **SCF SERIES SEALS**

*Supercritical processes are tough on seals. That's why we developed a proprietary sealing system that uses elastomer-free polymers, specially formulated for use in dynamic conditions.*

## **MODEL SELECTION**

*Our unique sealing system allows us to fit a variety of Premier Industries regulators and valves for use in supercritical applications. So, whether you are looking for a pressure reducing or a back pressure regulator, a high pressure or a low pressure regulator, our team here at Premier would be happy to work with you to find a Premier SCF Series regulator for your application.*

## **MATERIAL SELECTION**

*All SCF regulators are available in a variety of materials and configurations. Contact a Premier Industries representative to configure a **SCF Series** regulator to suit the demands of your application.*

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*Regulators and valves optimized for use in supercritical applications*



## **SCF 3100 Series - P/N: 30-10066SCMB**

- High pressure, back pressure regulators
- 10000 psig max control pressure
- Cv: 0.03, 0.06, 0.14 or 0.20



## **SCF 3100AL Series - P/N: 30-10205SC**

- Air loaded
- High pressure, back pressure regulators
- 10000 psig max control pressure
- Cv: 0.03, 0.06, 0.14 or 0.20



## **SCF 3123 Series - P/N: 30-10223SC**

- High pressure, back pressure regulators
- 15000 psig max control pressure
- Cv: 0.06
- Low-torque hand knob



## **SCF 3123AL Series - P/N: 30-10223SCAL**

- Air loaded
- High pressure, back pressure regulators
- 15000 psig max control pressure
- Cv: 0.06



## **SCF AO SERIES VALVES - P/N: 70-00316**

- High pressure, air operated valves
- Normally closed
- 10000 psig max inlet
- Cv: 0.80
- 100-150 PSIG psig actuation pressure