



Available in low, medium, high and extra high pressure models, R6000 right angle relief valves provide users with high accuracy and consistency of cracking and reseal pressures. Furthermore, narrow pressure ranges (cracking pressures) for each model can be factory pre-set according to customer specifications. PED certification and CE marking are standard for all models. All R6000 relief valves are offered with multiple end connections to ensure application versatility.

### Typical Applications

- Beverage dispensing equipment
- Gas pilot plants
- Petrochemical test labs
- Offshore oil platform heating lines
- Pharmaceutical sterilization and packaging systems

### Features & Benefits

#### Low Pressure (5 – 550 psig)\*

##### Zero friction poppets

- Increases accuracy of cracking pressure and reseal pressure.
- Improves consistency of cracking pressure and reseal pressure.

##### Encapsulated Seat Seal

- Maintains small contact surface area.
- Protects seat from erosion due to flow.

Raised seal lip on poppet minimizes contact with seat, eliminating friction and preventing overstraining of the O-ring

6 pressure spring ranges improve accuracy

Caps and bonnets are pre-drilled for lockwire

Multiple end connections available

#### High Pressure (150–6000 psig)

##### 3 models available:

- Medium (150–2500 psig)—6 spring ranges improve accuracy
- High (150–5000 psig)—7 spring ranges improve accuracy
- Extra High (5000–6000 psig)—one spring

Delta stem seal design prevents friction which increases accuracy of cracking pressure and reseal pressure.

Balanced poppet design allows cracking pressure to stay the same regardless of backup pressure.

Orifice sizes: 0.082", 0.094", 0.188"

Multiple end connections available.

Optional manual override handle

### Circle Seal Controls

2301 Wardlow Circle • Corona, CA 92880  
 Phone (951) 270-6200 • Fax (951) 270-6201  
[www.circlesealcontrols.com](http://www.circlesealcontrols.com)

\*Back pressure affects cracking pressure on low pressure version

relief valves