Features

- Quick Opening / Positive Closing
- Zero Leakage
- Compact
- Easily Installed

Technical Data

Materials of Construction

Body: 2024-T4/T351 Aluminum
      6061-T6/T651 Aluminum
      303 Stainless Steel
      316 Stainless Steel

Finish: Aluminum - Chromic Anodized Steel - Black Oxide

O-Rings: Buna N, Teflon® or Viton®

Spring: 302 or 304 Stainless Steel

Pressure Ratings

Operating Pressure: 0 to 5,000 PSIG (345 BAR)
Proof Pressure: 0 to 7,500 PSIG (517 BAR)
Burst Pressure: Over 15,000 PSIG (1,034 BAR)

Temperature Range

-100°F to +400°F; -73°C to +204°C

Based On O-Ring Material, See Page 2

How It Works

OPEN
Full flow passages offer minimum restriction to flow. Spring is completely removed from flow path.

CLOSING
Floating O-ring automatically establishes line contact with conical metal surfaces of poppet and seat to cushion closing and ensure perfect sealing.

CLOSED
O-ring only seals. Full pressure load is carried by metal to metal seat. Increasing pressure increases sealing efficiency – metal seat prevents any possibility of deformation or extrusion of O-ring.
How To Order

**BASIC MODEL NUMBER**

C200 Series

**O-RING MATERIAL, TEMPERATURE & CRACKING PRESSURE RANGES**

- 49 - Buna N -40°F to 250°F  2.0 - 4.0 PSI
- 59 - Buna N -40°F to 250°F  0.5 - 1.0 PSI
- 20 - Teflon® -100°F to 400°F  8 PSI Max.
- 32 - Viton® -20°F to 400°F  0.5 - 1.0 PSI

**CRACKING PRESSURE**

Call Out Dash Number
If Not Standard
5 - 5 PSIG *

**VALVE SIZE**

See Below

**BODY MATERIAL**

- A - 2024-T4/T351 Aluminum
- A1 - 6061-T6/T651 Aluminum
- S - Steel
- T - 303 Stainless Steel
- T1 - 316 Stainless Steel

Notes:

Vacuum service may require special lubricants.

LEAKAGE — From Zero Pressure to Max. Operating Pressure - Zero.

Exception: O-Rings of Teflon® when used with gases - 5cc/min. Max. at zero to 50 psi; 0.5cc min. Max. above 50 psi.

Teflon® and Viton® are registered trademarks of DuPont.

Please consult your Circle Seal Controls Representative or our factory for information on operating pressures and temperature ranges.

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**Specifications, Dimensions, Weights & Typical Flow Curves**

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<th>SPECIFICATIONS, WEIGHTS &amp; CV RATINGS</th>
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Pressure Drop PSI

Air Flow SCFM

Hydraulic Oil Flow GPM