Features

- Zero Leakage
- 2100 Series Meets Package Requirements MS28888 & Functional Requirements of MIL-V-8628. Designed for Pneumatic Service
- 2800 Series Meets Package Requirements of AN6249. Withstands System Shocks

Technical Data

Materials of Construction
Body: 2024-T4/T351 Aluminum or 303 Stainless Steel
O-Rings: Buna N, Neoprene, Silicone, Teflon® or Viton®
Spring: 302 Stainless Steel

Pressure Ratings
Operating Pressure – 3,000 PSIG (207 BAR)
Proof Pressure – 1.5 x Operating Pressure
Burst Pressure – 2.5 to 4 x Operating Pressure

Temperature Range
-100°F to 400°F; -73°C to +204°C
Based On O-Ring Material, See Page 2

Valve Sizes
2100 Series - 3/16” to 1/2”
2800 Series - 1/4” to 1”

How It Works

2100 SERIES

OPEN
Fluid passes through poppet and spring guide. Extended portion of spring guide confines O-ring preventing washout.

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

CLOSED
O-ring only seals. Full pressure load is carried by metal to metal contact between poppet and seat. Increasing pressure increases sealing efficiency — metal to metal contact prevents any possibility of deformation or extrusion of O-ring.

Same basic principle applies to the 2800 Series.
How To Order

BASIC MODEL NUMBER
21 - 2100 Series
28 - 2800 Series

O-RING MATERIAL & TEMPERATURE RANGE
49 - Buna N  -40° to +250°F
33 - Neoprene  -40° to +300°F
20 - Teflon®  -100° to +400°F
32 - Viton®  -20° to +400°F

MATERIAL
A - 2024-T4/T351 Aluminum
T - 303 Stainless Steel

CRACKING PRESSURE
Call Out Dash Number if Not Standard
5 - 5 PSIG

CONNECTIONS
See Tables Below

VALVE SIZE
Tube sizes in 1/16" Increments

Teflon® and Viton® are registered trademarks of DuPont.

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

End Connections, Dimensions & Weights

2100 SERIES, MALE TUBE — AS4395 (MS 33656)

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight In Lbs. Alum.</th>
<th>S.S.</th>
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2800 SERIES, MALE TUBE — AS4395 (MS 33656)

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<th>B</th>
<th>C</th>
<th>Weight In Lbs. Alum.</th>
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