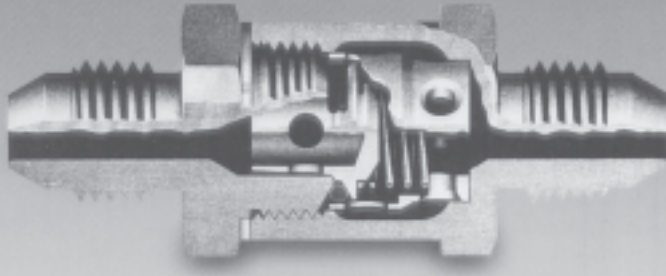


2100 & 2800 SERIES

0 to 3,000 PSIG



CHECK VALVES

Fred C. Gilbert Co.
106 Norris Road
Bakersfield, Ca. 93308
661-399-9569
fax 661-393-9654

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

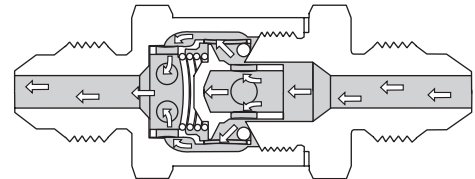
- 100°F to +400°F; -73°C to +204°C
Based On O-Ring Material, See Page 2

Valve Sizes

- 2100 Series - 3/16" to 1/2"

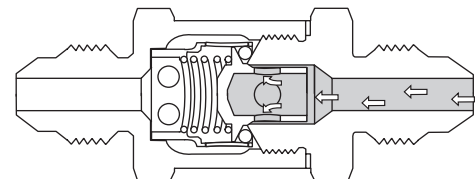
How It Works

2100 SERIES



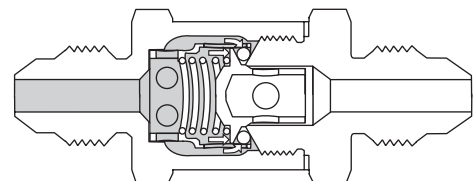
OPEN

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.



CIRCLE SEAL CONTROLS, INC.

A division of CIRCOR International, Inc.

Certified to ISO 9001

2100 & 2800 SERIES

0 to 3,000 PSIG

How To Order

2199 A - 4TT - 5

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

* Standard based on seal material.
 Buna N, Neoprene - 2 to 4 PSIG
 Teflon® - 8 PSIG Max.
 Viton® - .5 to 1 PSIG

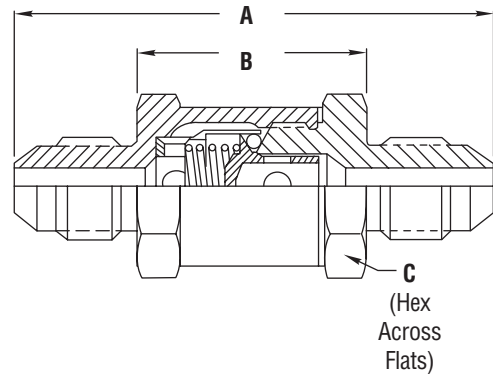
Teflon® and Viton® are registered trademarks of DuPont.

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

End Connections, Dimensions & Weights

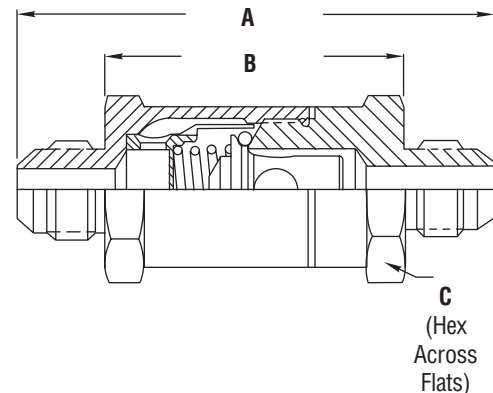
2100 SERIES, MALE TUBE — AS4395 (MS 33656)

Model Number	Size	A	B	C	Weight In Lbs.	
					Alum.	S.S.
3TT	3/16"	1.90	.94	.562	.025	.100
4TT	1/4"	2.10	1.00	.688	.035	.125
6TT	3/8"	2.36	1.25	.813	.057	.200
8TT	1/2"	3.06	1.75	1.063	.131	.375



2800 SERIES, MALE TUBE — AS4395 (MS 33656)

Model Number	Size	A	B	C	Weight In Lbs.	
					Alum.	S.S.
4TT	1/4"	2.63	1.53	.688	.054	.18
6TT	3/8"	2.86	1.75	.813	.080	.23
8TT	1/2"	3.53	2.22	1.063	.170	.43
12TT	3/4"	4.48	2.75	1.500	.390	1.11
16TT	1"	5.13	3.31	1.750	.570	1.74



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