

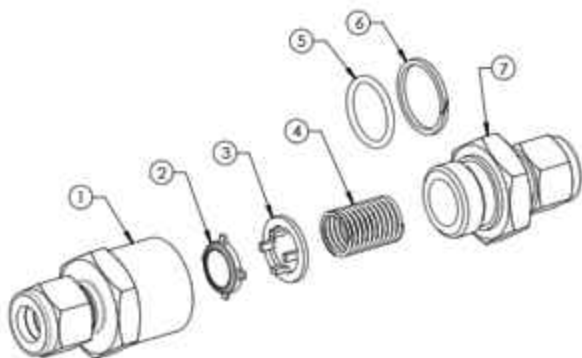
# CH SERIES CHECK VALVES



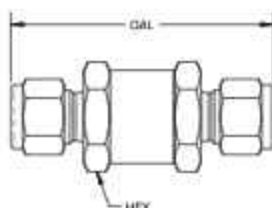
# CH SERIES CHECK VALVES

## Features:

- Stainless Steel Construction
- Poppet with bonded elastomer seal
- Up to 6000 psig maximum working pressure
- -10°F to 400°F temperature rating
- Cracking pressures from 1/3 to 25 psi
- Fluorocarbon FKM seals



| Component |               | Material<br>[Material Grade/ASTM Specification] |
|-----------|---------------|-------------------------------------------------|
| 1         | Inlet Body    | 316SS / A479                                    |
| 2         | Bonded Poppet | Fluorocarbon FKM - Bonded 316SS / A479          |
| 3         | Poppet Stop   | 316SS / A240                                    |
| 4         | Spring        | 302SS / A313                                    |
| 5         | O-Ring        | Fluorocarbon FKM                                |
| 6         | Backup Ring   | PTFE / D1710                                    |
| 7         | Outlet Body   | 316SS / A479                                    |



| End Connection              |      | Part Number   | Interchanges With | -10°F to 100°F<br>Pressure Rating<br>psig | Cv   | OAL  | HEX   |
|-----------------------------|------|---------------|-------------------|-------------------------------------------|------|------|-------|
| Type                        | Size |               |                   |                                           |      |      |       |
| CBC-Lok®<br>Tube Fitting    | 1/8  | SS-CH-D2D2-   | SS-CHS2-          | 6000                                      | 0.67 | 2.27 | 11/16 |
|                             | 1/4  | SS-CH-D4D4-   | SS-CHS4-          |                                           |      | 2.43 |       |
|                             | 3/8  | SS-CH-D6D6-   | SS-CHS6-          |                                           | 1.80 | 2.75 | 1     |
|                             | 1/2  | SS-CH-D8D8-   | SS-CHS8-          |                                           |      | 2.96 |       |
|                             | 3/4  | SS-CH-D12D12- | SS-CHS12-         | 5000                                      | 4.70 | 3.52 | 1-5/8 |
|                             | 1    | SS-CH-D16D16- | SS-CHS16-         | 4700*                                     |      | 3.88 |       |
| CS-Lok®<br>Tube Fitting     | 1/8  | SS-CH-S2S2-   | -                 | 6000                                      | 0.67 | 2.27 | 11/16 |
|                             | 1/4  | SS-CH-S4S4-   | -                 |                                           |      | 2.43 |       |
|                             | 3/8  | SS-CH-S6S6-   | -                 |                                           | 1.80 | 2.75 | 1     |
|                             | 1/2  | SS-CH-S8S8-   | -                 |                                           |      | 2.96 |       |
|                             | 3/4  | SS-CH-S12S12- | -                 | 5000                                      | 4.70 | 3.52 | 1-5/8 |
|                             | 1    | SS-CH-S16S16- | -                 | 4700*                                     |      | 3.88 |       |
| Female NPT to<br>Female NPT | 1/4  | SS-CH-F4F4-   | SS-CHF4-          | 6000                                      | 0.67 | 2.13 | 11/16 |
|                             | 3/8  | SS-CH-F6F6-   | SS-CHF6-          | 5000                                      |      | 2.55 |       |
|                             | 1/2  | SS-CH-F8F8-   | SS-CHF8-          | 4600*                                     | 1.80 | 3.03 | 1     |
|                             | 3/4  | SS-CH-F12F12- | SS-CHF12-         | 4300*                                     |      | 3.23 |       |
|                             | 1    | SS-CH-F16F16- | SS-CHF16-         | 4100*                                     | 4.70 | 3.83 | 1-5/8 |

\*Pressure derating based on end connection

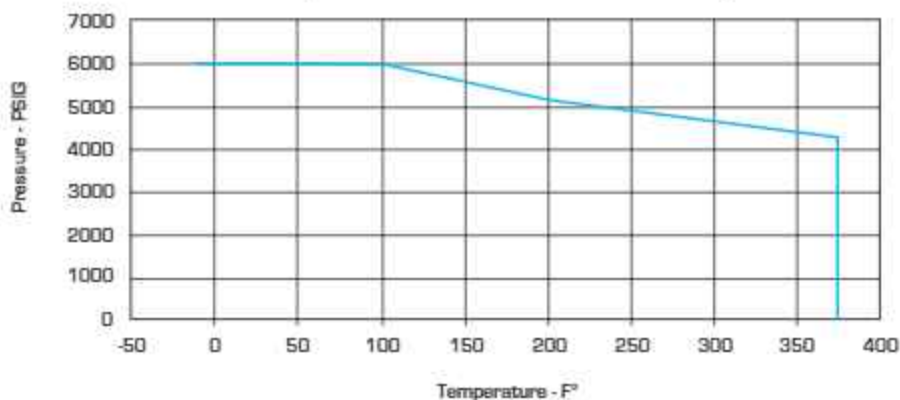
# CH SERIES CHECK VALVES

| Cracking Pressure Designator<br>psig | Cracking Differential Pressure<br>psig | Minimal Reseal<br>Differential Pressure<br>psig |
|--------------------------------------|----------------------------------------|-------------------------------------------------|
| 1/3                                  | 1/3 to 3                               | 6 back pressure                                 |
| 1                                    | 1 to 4                                 | 6 back pressure                                 |
| 5                                    | 3 to 9                                 | 2 back pressure                                 |
| 10                                   | 7 to 15                                | 3 (inlet)                                       |
| 25                                   | 20 to 30                               | 17 (inlet)                                      |

To order, add Cracking Pressure Designator to the end of the Part Number.

Ex: a 1/4" CBC-Lok® Check Valve with a 1/3" cracking pressure would be SS-CH-D4D4-1/3

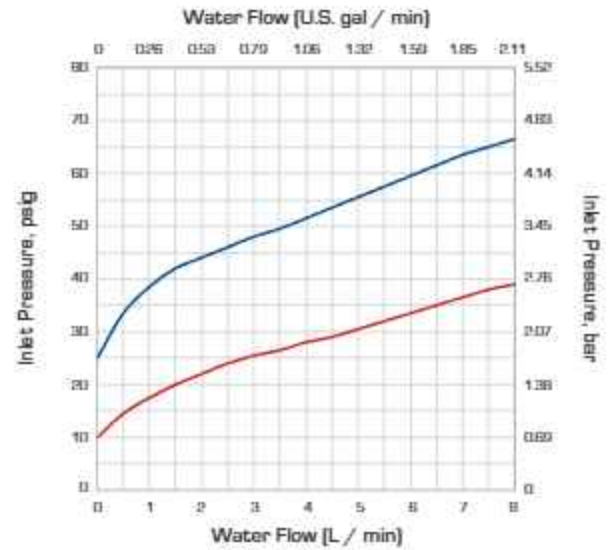
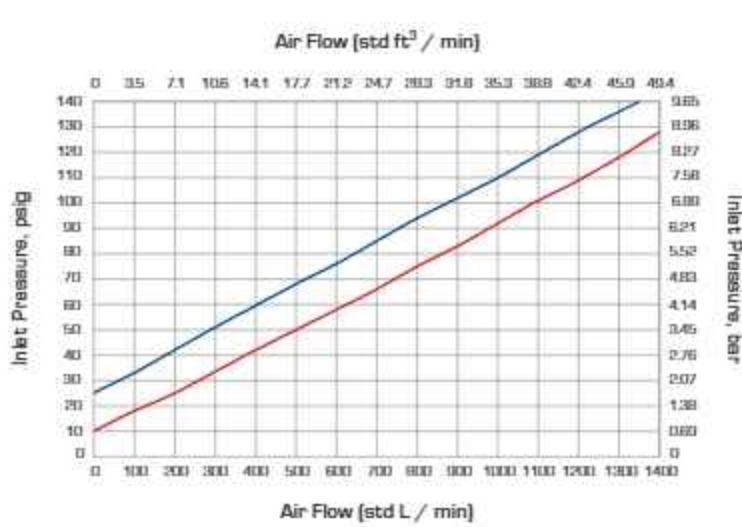
## Temperature - Pressure Ratings



| Pressure - Temperature Ratings<br>(based on fluorocarbon FKM seals) |                             |
|---------------------------------------------------------------------|-----------------------------|
| Temperature °F (°C)                                                 | Working Pressure psig (bar) |
| -10°F (-23°C) to 100°F (37°C)                                       | 6000 psig (413 bar)         |
| 200°F (93°C)                                                        | 5160 psig (355 bar)         |
| 250°F (121°C)                                                       | 4910 psig (338 bar)         |
| 300°F (148°C)                                                       | 4660 psig (321 bar)         |
| 375°F (190°C)                                                       | 4280 psig (295 bar)         |

# CH SERIES CHECK VALVES

— Cv = 0.67 Cracking = 1 psig — Cv = 0.67 Cracking = 10 psig



— Cv = 1.8 Cracking = 1 psig — Cv = 1.8 Cracking = 10 psig

