

## Introduction

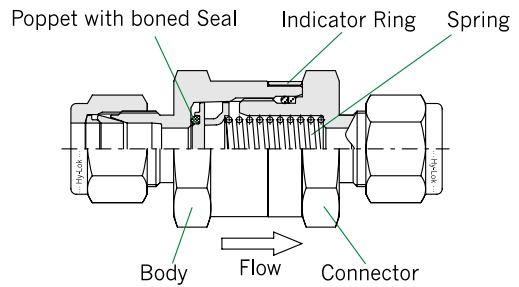
Hy-Lok's 700H Series Check Valves are designed for flow control CNG. Tested and certified for this application per AGA/CGA NGV 3.1. & ECE R110

## Features

- Inline check valve.
- Back stopped poppet.
- NBR seat design.
- Cracking pressure include : 1/3, 1, 5, 10, 25psig.
- Indicator Ring for easy identify the cracking pressure.
- 100% factory tested.

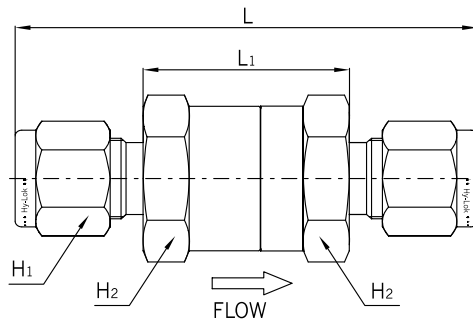
## Technical Data

- Maximum Operating Pressure : 6000 psig (414 bar) @ 100°F (38°C)
- Operating Temperature Range : From -40°F to 250°F (-40°C to 121°C)
- Flow Coefficient(Cv) : 0.67 to 4.7



## Material of Construction

| Description    | Material / ASTM Specification |
|----------------|-------------------------------|
| Body           | SS316 / A479                  |
| Connector      | SS316 / A479                  |
| Sealing        | NBR                           |
| Spring         | SS302                         |
| Indicator Ring | Stainless Steel               |



## Table of Dimensions

| Basic Part No. | End Connection        | Hexagon, in. (mm) |       |                |       | Dimensions, in.(mm) |              |              |
|----------------|-----------------------|-------------------|-------|----------------|-------|---------------------|--------------|--------------|
|                |                       | h <sub>1</sub>    |       | h <sub>2</sub> |       | L <sub>1</sub>      | L            |              |
|                |                       | in.               | mm    | in.            | mm    |                     |              |              |
| CVH1 - H4T     | 1/4 Hy-Lok            | 9/16              | 14.20 | 11/16          | 17.46 | 1.04" (26.4)        | 2.43" (61.7) |              |
| CVH1 - ZCO4    | 1/4" O-Ring Face Seal | -                 | -     |                |       |                     | 1.98" (50.3) |              |
| CVH2 - H8T     | 1/2" Hy-Lok           | 3/4               | 22.22 | 1              | 25.40 | 1.23" (31.2)        | 2.96" (75.2) |              |
| CVH2 - H8M     | 1/2" Hy-Lok           | 3/4               | 16.00 |                |       |                     | 2.70" (68.6) |              |
| CVH2 - H10M    | 10mm Hy-Lok           | -                 | 19.00 |                |       |                     | 2.80" (71.1) |              |
| CVH2 - H12M    | 12mm Hy-Lok           | -                 | 22.00 |                |       |                     | 2.96" (75.2) |              |
| CVH2 - H16M    | 16mm Hy-Lok           | -                 | 25.00 |                |       |                     | 1.42" (36.0) | 3.15" (80.0) |
| CVH2 - ZCO8    | 1/2" O-Ring Face Seal | -                 | -     |                |       |                     | 1.23" (31.2) | 2.35" (59.7) |
| CVH3 - H12T    | 3/4" Hy-Lok           | 1 1/8"            | 28.58 | 1 5/8"         | 41.28 | 1.78" (45.2)        | 3.52" (89.4) |              |
| CVH3 - ZCO12   | 3/4" O-Ring Face Seal | -                 | -     |                |       |                     | 1.78" (45.2) | 2.90" (73.7) |

\* Dimensions shown with Hy-Lok nuts in finger-tight position, where applicable.

## Ordering Information

**CVH1**

### Series Designator

- CVH1 : Orifice 4,8mm
- CVH2 : Orifice 7,8mm
- CVH3 : Orifice 15,2mm

**H**

### End Connection Designator

- H : Hy-Lok Tube Fitting
- F : Female Thread
- M : Male Thread
- V : Metal Gasket Face Seal
- ZCO : O-Ring Face Seal

**4T**

### Size Designator

### Cracking Pressure Designator

- 1/3 : 1/3 psig
- 1 : 1 psig
- 5 : 5 psig
- 10 : 10 psig
- 25 : 25 psig

• Pipe Thread NTP(ISO/BSP)

| Pipe Size  | 1/8"  | 1/4"  |
|------------|-------|-------|
| Designator | 2N(R) | 4N(R) |

• Tube O.D. Designation

| Tube O.D.  | 1/4" | 3/8" | 1/2" | 3/4" | 8mm | 10mm | 12mm | 16mm |
|------------|------|------|------|------|-----|------|------|------|
| Designator | 4T   | 6T   | 8T   | 12T  | 8M  | 10M  | 12M  | 16M  |

**S316**

### Body Material Designator

- S316 : 316 Stainless Steel