# 691F Series

High Flow Poppet Check Valves



## Features & Benefits

- Prevents back flow
- Protects valuable equipment
- 316 stainless steel components
- Gyrolok® compression ends provide leak-free, reusable connections
- Recommended for severe service, including CNG applications:
  - High Cv flow rates
  - Blowout-proof o-ring design
  - Withstands high opening shocks without damage
- Special High Tolerance NPT Thread

## Technical Data

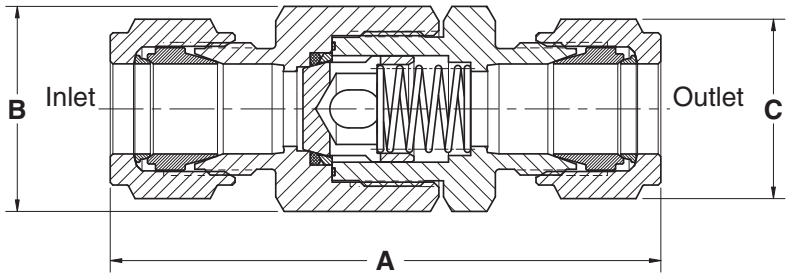
| | |
|---|---|
| **Body Material** | 316 stainless steel |
| **Operating Pressure** | 5000 psig @ 70° F (345 bar @ 21° C) |
| **Operating Temperature Range** | -65° F to +275° F (-54° C to +135° C) |
| **Differential Cracking Pressures** | ⅓ psig to 50 psig (0 to 3 bar) |
| **Cv Factors** | 0.620 to 6.0 |

check valves

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# 691F Series

## Dimensions




### Materials of Construction

| Part | Material |
|---|---|
| Body | 316 stainless steel |
| Poppet | 316 stainless steel |
| Seat ring | 316 stainless steel |
| Body gasket | Teflon® |
| Seat o-ring | Buna N |

### Fractional

| Part Number | Cv | A | B Body Hex | C Gyrolok® Hex | Wrench |
|---|---|---|---|---|---|
| 691FxG4Y | 0.620 | 2.72 (69.1mm) | 1.000 (25.4mm) | 0.562 | 9⁄16″ |
| 691FxG6Y | 1.0 | 2.83 (71.9mm) | 1.000 (25.4mm) | 0.688 | 11⁄16″ |
| 691FxG8Y | 2.1 | 3.10 (78.7mm) | 1.000 (25.4mm) | 0.875 | 7⁄8″ |
| 691FxG12Y | 6.0 | 3.75 (95.3mm) | 1.625 (41.3mm) | 1.125 | 1 1⁄8″ |
| 691FxG16Y | 6.0 | 3.96 (100.6mm) | 1.625 (41.3mm) | 1.500 | 1 1⁄2″ |

### Metric

| Part Number | Cv | A | B Body Hex | C Gyrolok® Hex | Wrench |
|---|---|---|---|---|---|
| 691FxG10YMM | 1.2 | 2.84 (72.1mm) | 1.000 (25.4mm) | 19.1mm | 3⁄4″ |
| 691FxG12YMM | 1.8 | 3.13 (79.5mm) | 1.000 (25.4mm) | 22.2mm | 7⁄8″ |
| 691FxG18YMM | 5.3 | 3.67 (93.2mm) | 1.625 (41.3mm) | 28.6mm | 1 1⁄8″ |
| 691FxG22YMM | 6.0 | 3.80 (96.5mm) | 1.625 (41.3mm) | 31.8mm | 1 1⁄4″ |
| 691FxG25YMM | 6.0 | 4.02 (102.1mm) | 1.625 (41.3mm) | 38.1mm | 1 1⁄2″ |

## How to Order

**691 F 5 G 8 Y MM**

***FIXED CRACKING PRESSURE***

***CRACKING PRESSURE***

| | |
|---|---|
| 1 | 1⁄3 psig |
| 2 | 1 psig |
| 4 | 5 psig |
| 5 | 10 psig |
| 6 | 25 psig |
| 7 | 50 psig |
| 8 | 75 psig |
| 9 | 100 psig |

***END CONNECTION***

G Gyrolok®

***END CONNECTION SIZE***

| | Fractional | Metric |
|---|---|---|
| 4 | 1⁄4″ | N/A |
| 6 | 3⁄8″ | N/A |
| 8 | 1⁄2″ | N/A |
| 10 | N/A | 10mm |
| 12 | 3⁄4″ | 12mm |
| 16 | 1″ | N/A |
| 18 | N/A | 18mm |
| 22 | N/A | 22mm |
| 25 | N/A | 25mm |

***BODY MATERIAL***

Y 316 stainless steel

***DENOTES METRIC FITTING***

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*Teflon® is a registered trademark of the DuPont Company.*