

# 316 Stainless Steel Check Valve

This check valve features a 316 cold-worked stainless steel body, offering excellent corrosion resistance and high tensile strength. It ensures reliable sealing to prevent leakage and is designed to close when differential pressure drops below the cracking pressure.



## ADDITIONAL IMAGES



## Overview

### High-Performance 316 Stainless Steel Check Valve

This check valve is engineered with a 316 cold-work stainless steel body, providing exceptional corrosion resistance and high tensile strength for demanding industrial environments. Designed for unidirectional flow control, it features reliable sealing technology to ensure zero leakage and maintains high system integrity with a low pressure drop. The versatile design supports multiple pressure levels up to 60,000 psig and offers both soft and ball sealing options to suit various fluid handling requirements.

## Performance Highlights

### Key Performance Metrics

**60000 psig**  
Max Pressure

**15 psi**  
Cracking Pressure

**1200 °F**  
Max Temperature

## Technical Specifications

### Sealing Options

- Soft Sealing (Standard)
- Ball Sealing (Add '-B' to code)

### Body Material

316 Cold-Work Stainless Steel

### Available Pressure Levels

15000 psig (Low), 20000 psig (Medium), 60000 psig (High)

## Operating Environment

### Extreme Temperature Options

Cryogenic to -420°F • High Heat to 1200°F

### Soft Seal Temp Range

-40°F to 250°F (-40°C to 120°C)

### Ball Seal Temp Range

-100°F to 450°F (-73°C to 232°C)

## Product Selection Data

Work Pressure	Size	Orifice mm(in.)	Connection, Inlet to Out let			
			Female-Female	Male-Female	Tube-Tube	Tube-Female
Low Pressure 15000psig	1/4"	3.20(0.13)	CV15FN4	CV15MN4FN4		
	3/8"	5.60(0.22)	CV15FN6	CV15MN6FN6		
	1/2"	7.90(0.31)	CV15FN8	CV15MN8FN8		
Medium Pressure 20000 psig	1/4"	3.20(0.13)	CV20MF4	CV20MM4MF4	CV20MT4	CV20MT4MF4
	3/8"	5.60(0.22)	CV20MF6	CV20MM6MF6	CV20MT6	CV20MT6MF6
	9/16"	7.90(0.31)	CV20MF9	CV20MM9MF9	CV20MT9	CV20MT9MF9
	3/4"	11.10(0.44)	CV20MF12	CV20MM12MF12	CV20MT12	CV20MT12MF12
	1"	14.30(0.56)	CV20MF16	CV20MM16MF16	CV20MT16	CV20MT16MF16
High Pressure 60000 psig	1/4"	2.40(0.09)	CV60HF4	CV60HM4HF4	CV60HT4	CV60HT4HF4
	3/8"	3.20(0.13)	CV60HF6	CV60HM6HF6	CV60HT6	CV60HT6HF6
	9/16"	3.20(0.13)	CV60HF9	CV60HM9HF9	CV60HT9	CV60HT9HF9

Ordering codes listed are for valves with soft sealing. For valves with ball sealing, add "-B" after the ordering codes. Other sizes, materials and types are available upon request. For special requirements, please contact us.

Comprehensive selection guide for low, medium, and high-pressure check valve configurations.

### Pressure and Connection Sizes

Pressure Class	Connection Size	Orifice mm(in.)
Low (15000 psig)	1/4", 3/8", 1/2"	3.20 - 7.90 (0.13 - 0.31)
Medium (20000 psig)	1/4", 3/8", 9/16", 3/4", 1"	3.20 - 14.30 (0.13 - 0.56)
High (60000 psig)	1/4", 3/8", 9/16"	2.40 - 3.20 (0.09 - 0.13)

### Connection Configurations

- Female-Female
- Male-Female
- Tube-Tube
- Tube-Female

## Features & Benefits

### Maintenance

Easily repairable design with low maintenance costs.

### Sealing Performance

Guaranteed zero leakage