

Spring Check Valve

Stainless Steel Body | 2-Way Configuration | 1/4" to 3"



Features

- Designed with gravity-assisted or optional spring-loaded return mechanism to achieve rapid valve closure
- Engineered with a centrally guided disc mechanism, ensuring accurate seating and uniform load distribution for improved sealing efficiency
- Optimized for efficient flow lift with controlled cracking pressure, ensuring dependable operation while maintaining tight shut-off characteristics
- Provides a reliable performance in demanding environments, with a wide operating temperature range
- Investment-cast construction using high-quality materials, manufactured in accordance with AD 2000-W0 requirements
- Tested to recognized industry standards to ensure dependable sealing performance and structural integrity
- Supplied with NPT threaded connections for secure, leak-tight installation and compatibility with standard piping systems
- Durable stainless steel construction suited for a wide range of compatible media including water, air, and fuel
- Ideal for vertical pipeline installation, utilizing gravity-assisted closure for rapid response and effective backflow prevention, minimizing reverse flow and potential system damage

Industrial Applications

- Vertical Pump Discharge Lines (compatible media only)
- Boiler Feedwater Vertical Lines
- Condensate Return from High-Pressure Steam System
- Cooling Water Circulation System
- Compressed Air Vertical Risers
- Water Treatment Skids
- Chemical Injection Lines for mild to moderately corrosive media (compatible media only)
- Vertical Pump Discharge in Water Towers
- Fire Sprinkler Risers
- High-Rise Building Water Supply and Booster Systems

*These are not intended for use in medical life support, combustion, aviation, aerospace, automotive or similar applications.

Approvals

- PED 2014/68/EU
- Casting approved AD2000-W0
- Inspection testing: API 598, EN12266-1

Specifications

| Pipe Connection | | Maximum Operating Pressure | Working Temperature (°F) | | Minimum Cracking Pressure (psi) |
|-----------------|-------------------|----------------------------|--------------------------|-----|---------------------------------|
| Size (in) | Thread Connection | | Min | Max | |
| 1/4 | NPT | 1000 WOG | -4 | 356 | 5.37 |
| 3/8 | | | | | 4.42 |
| 1/2 | | | | | 2.64 |
| 3/4 | | | | | 1.74 |
| 1 | | | | | 1.19 |
| 1 1/4 | | | | | 1.1 |
| 1 1/2 | | | | | 0.59 |
| 2 | | | | | 0.58 |
| 2 1/2 | | | | | 0.51 |
| 3 | | | | | 0.42 |
| | | 800 WOG | | | |

Note: Pressure ratings are for water, oil, and gas (WOG) service under non-shock conditions

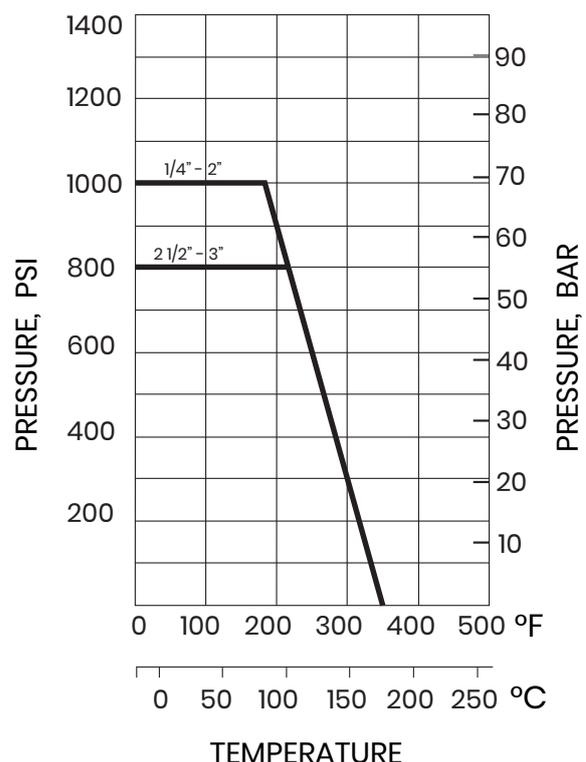
Materials of Construction

| Valve Parts | Material |
|-------------|---------------------|
| Body | Stainless Steel 304 |
| Components | Stainless Steel 304 |
| Trim | Stainless Steel 304 |
| Seal | PTFE |

Consult a chemical compatibility expert for correct seal and valve body material choice

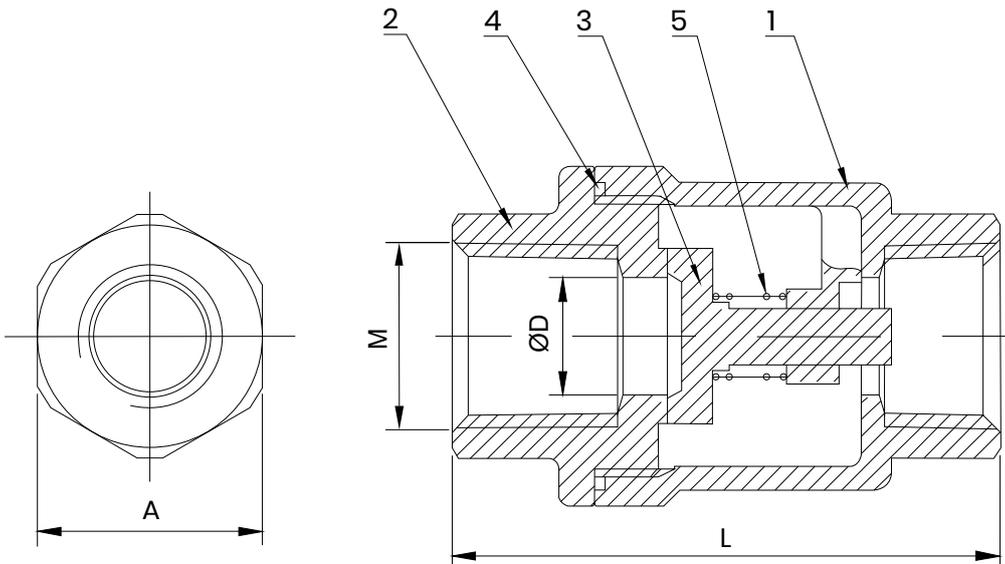
Pressure - Temperature Rating

PRESSURE - TEMPERATURE RATING



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Bill of Materials

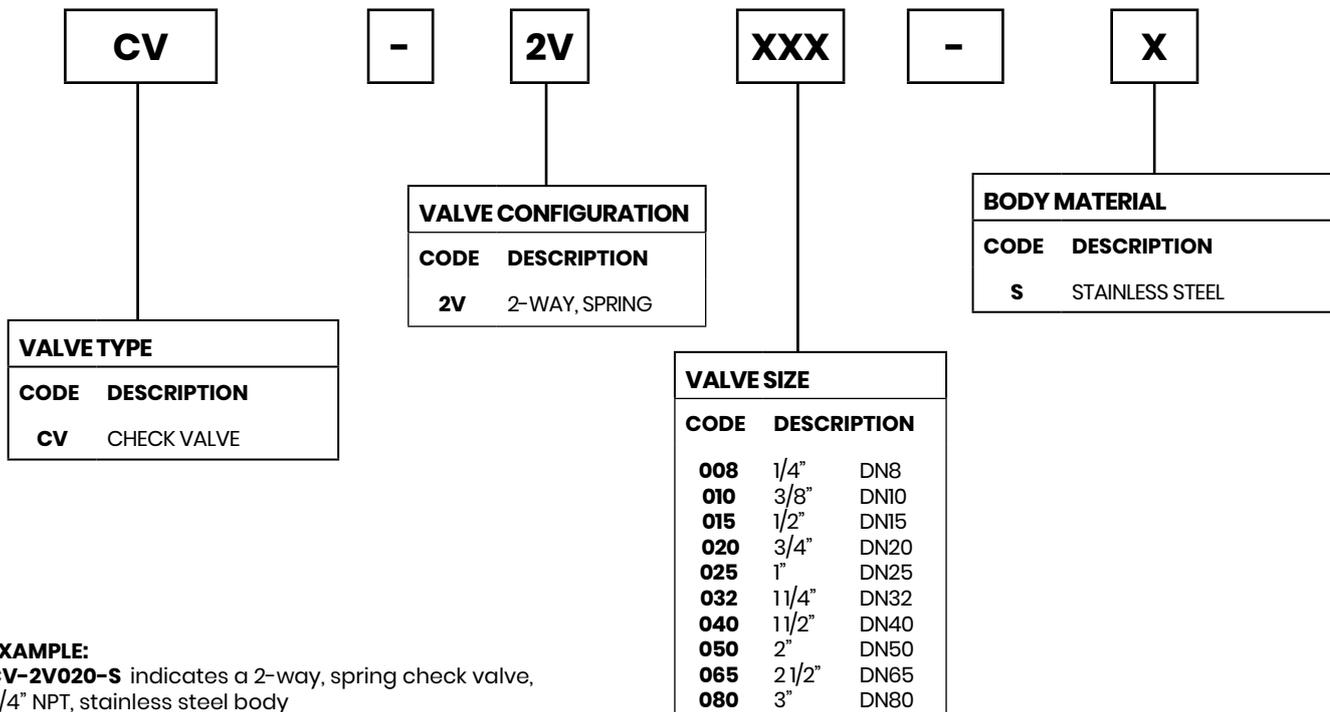
| No. | Valve Parts | Material | Qty |
|-----|-------------|---------------------|-----|
| 1 | Body | Stainless Steel 304 | 1 |
| 2 | Cap | Stainless Steel 304 | 1 |
| 3 | Valve Core | Stainless Steel 304 | 1 |
| 4 | End Seal | PTFE | 1 |
| 5 | Spring | Stainless Steel 304 | 1 |

Dimension

| Pipe Size (in) | Dimension (in) | | | | Weight (lb) |
|----------------|----------------|------|------|-------|-------------|
| | A | L | ØD | M | |
| 1/4 | 0.83 | 2.02 | 0.39 | 0.25 | 0.65 |
| 3/8 | 0.83 | 2.02 | 0.43 | 0.375 | 1.09 |
| 1/2 | 0.98 | 2.24 | 0.59 | 0.50 | 0.65 |
| 3/4 | 1.20 | 2.50 | 0.79 | 0.75 | 1.09 |
| 1 | 1.46 | 3.02 | 0.98 | 1.00 | 1.65 |
| 1 1/4 | 1.79 | 3.48 | 1.26 | 1.25 | 2.50 |
| 1 1/2 | 2.07 | 4.01 | 1.57 | 1.50 | 3.19 |
| 2 | 2.56 | 4.50 | 1.97 | 2.00 | 5.05 |
| 2 1/2 | 3.21 | 5.87 | 2.00 | 2.50 | 3.19 |
| 3 | 3.82 | 6.69 | 3.15 | 3.00 | 5.05 |

- (1) Weight and dimension may vary slightly from production
- (2) Dimension shown are nominal and provided for reference only
- (3) Dimension tolerance: ± 5% unless otherwise specified

Product Ordering Code



EXAMPLE:
CV-2V020-S indicates a 2-way, spring check valve, 3/4" NPT, stainless steel body