

# Lead-Free\* 250 PSI CWP Iron Body Grooved Silent Check Valves

Twin Disc • Grooved Style • Bronze Disc • Buna-N Seat • Spring Actuated

**250 PSI/17.2 Bar Non-Shock Cold Working Pressure**  
**Maximum Temperature to 180°F/82°C @ 220 PSI/15 Bar**



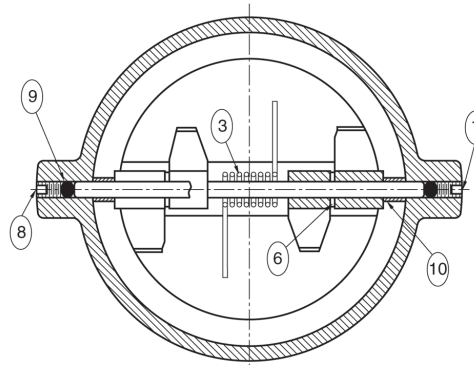
**C USA**  
**COMPONENT LEAD-FREE**

CERTIFIED LEAD-FREE\* BY WQA TO NSF/ANSI 372  
CONFORMS TO ANSI/AWWA C606 FOR STEEL IPS PIPE

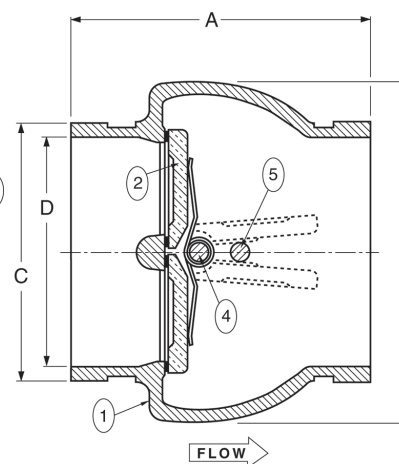
## MATERIAL LIST

| PART                    | SPECIFICATION  |
|-------------------------|--|
| 1. Body                 | Ductile Iron ASTM A536 Grade 65-45-12 w/Buna-N (Nitrile) resilient seat molded to body |
| 2. Disc                 | Bronze ASTM B584 Alloy C87600  |
| 3. Torsion Spring       | Stainless Steel ASTM A313 UNS S31600   |
| 4. Disc Hinge Pin       | Stainless Steel ASTM A276 UNS S31600   |
| 5. Disc Stop Pin        | Stainless Steel ASTM A276 UNS S31600   |
| 6. Disc Thrust Bearing  | Stainless Steel ASTM A240 UNS S31600   |
| 7. Hinge Pin Retainer   | Steel  |
| 8. Stop Pin Retainer    | Steel  |
| 9. Stabilization Sphere | Buna-N   |
| 10. Spacer              | Stainless Steel ASTM A276 UNS S31600   |

Sizes 10" and 12" furnished with lifting eyebolt



**G-920-W-LF**  
Grooved



## DIMENSIONS—WEIGHTS—QUANTITIES

| Dimensions |     |      |     |       |     |       |     |       |     |        |      |
|------------|-----|------|-----|-------|-----|-------|-----|-------|-----|--------|------|
| Size       |     | A    |     | B     |     | C     |     | D     |     | Weight |      |
| In.        | mm. | In.  | mm. | In.   | mm. | In.   | mm. | In.   | mm. | Lbs.   | Kg.  |
| 2          | 50  | 4.66 | 111 | 4.13  | 105 | 2.38  | 60  | 2.00  | 51  | 3.30   | 1.49 |
| 2½         | 65  | 4.91 | 125 | 4.88  | 124 | 2.88  | 73  | 2.41  | 61  | 4.50   | 2.04 |
| 3          | 80  | 5.31 | 135 | 5.38  | 137 | 3.50  | 89  | 2.94  | 75  | 7.30   | 3.31 |
| 4          | 100 | 5.38 | 137 | 6.00  | 152 | 4.50  | 114 | 3.91  | 99  | 8.60   | 3.90 |
| 5          | 125 | 5.72 | 145 | 7.06  | 179 | 5.56  | 141 | 4.89  | 124 | 13.00  | 5.90 |
| 6          | 150 | 6.00 | 152 | 8.13  | 206 | 6.63  | 168 | 5.92  | 150 | 18.00  | 8.17 |
| 8          | 200 | 6.72 | 171 | 10.03 | 255 | 8.63  | 219 | 7.91  | 201 | 30.00  | 13.6 |
| 10         | 250 | 7.78 | 198 | 12.38 | 314 | 10.75 | 273 | 10.00 | 254 | 56.00  | 25.4 |
| 12         | 300 | 8.19 | 208 | 14.38 | 365 | 12.75 | 324 | 11.94 | 303 | 81.80  | 36.7 |

Groove dimensions conform to ANSI/AWWA specification C606 Table 4  
(Cut Groove Dimensions)

**NOTE:** Twin Disc Check Valves can be installed horizontally or in the vertical position with flow up.

**CAUTION:** For horizontal flow applications, the valve must be installed with disc hinge pin in the vertical position to insure proper operation.

**WARNING:**

1. This valve is not to be used as a steam valve.
  2. Valves are not to be used near a reciprocating air compressor.
  3. Install 5 pipe diameters minimum downstream from pump discharge or elbows to avoid flow turbulence. Flow straighteners may be required in extreme cases.
- Note:** On pump discharge, the preferred check valves are:
- inline, spring assisted, center-guided, lift checks
  - spring assisted twin (double) disc
  - swing design with lever and weight or lever and spring

You should also install the check valve as far from the pump as possible and at a minimum length of 5 times the pipe diameter. Flow straighteners may be required.

\*Lead Free refers to the wetted surface of pipe, fittings and fixtures in potable water systems that have a weighted average lead content ≤ 0.25% per the Safe Drinking Water Act (Sec. 1417) amended 1-4-2011 and other equivalent state regulations.