The Series BICV Brass Inline Check Valves are ideal for use with a broad array of service mediums including compatible oils, gases, fuels and hydrocarbons. They incorporate a soft seat for a bubble-tight shutoff and are spring-loaded for rapid reseating at high and low temperatures. The Series BICV was designed with a smooth flow profile to minimize head loss and accumulation of debris. The low 0.5 psi (0.04 bar) cracking pressure and patented guided-disc technology ensure reliability at low and high service pressure.

**SPECIFICATIONS**

- **Service:** Liquids and gases compatible with wetted material.
- **Body:** 1-piece.
- **Line Size:** See model chart.
- **Process Connection:** Female NPT.
- **Pressure Limits:**
  - 4˝: 150 psi (10.3 bar) at 73°F (22.8°C); 6˝ or 8˝: 90 psi (6.2 bar) at 73°F (22.8°C).
  - 2-1/2˝ to 4˝: 175 psi (12.1 bar) WOG; 2-1/2˝ to 4˝: 175 psi (12.1 bar) WOG; 4˝: 250 psi (17.2 bar) WOG; 6˝: 300 psi (20.7 bar) WOG; 8˝: 400 psi (27.6 bar) WOG.

**Wetted Materials:**

- **Valve body:** Brass (CW617N);
- **Obstructer:** Polyetherimide;
- **Seat:** EPDM;
- **Spring:** 302 SS.

**Temperature Limits:** 10 to 352°F (-12 to 178°C).

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**Series FPV Flap Check Valve**

**Wafer Style 4˝ to 8˝, PVC Construction**

Series FPV Flap Check Valves prevent reversal of flow in piping systems. They are ideal where backflow could potentially cause damage to pumps, filters, or process equipment. The valves operate without the need for any adjustments or settings. Line pressure moves the solid plastic flap off the elastomer seat, opening the valve. When the inlet flow stops, back pressure moves the flap back onto the seat, stopping the flow. These flap check valves have been designed to provide excellent flow characteristics. Because of their straightforward flow design they have a lower pressure drop than other check valve designs, and their compact size takes up less space in the pipeline than other types of check valves. Because of all plastic construction, these valves will never jam or stick as a result of rust or corrosion. Additionally, they will not contaminate sensitive fluids that come into contact with them. Series FPV Flap Check Valves are the valves of choice for cost sensitive applications that require a full featured, no compromise valve.

These flap check valves are supplied with O-rings set into the body faces. In most cases, flange gaskets are not required. Valves up to 8˝ usually require a spacer and should always be used with the same material as the valve. Spacers allow full disc opening with minimum interference. Spacers are not required for DIN and PVDF pipe.

**SPECIFICATIONS**

- **Service:** Compatible fluids.
- **Line Size:** 4˝ to 8˝.
- **Process Connections:** Standard flanges.
- **Pressure Limits:**
  - 4˝: 150 psi (10.3 bar) at 73°F (22.8°C); 6˝ or 8˝: 90 psi (6.2 bar) at 73°F (22.8°C).
- **Wetted Materials:** PVC body and flap with EPDM O-rings, silicone free-construction.
- **Temperature Limits:** 113°F (45°C).
- **Other Materials:** Plug: PP.