

## OVERVIEW

The Bray Series SA2 check valve accessory is designed to send a signal for remote indication for flow & valve position in automated control systems. If two are installed the first shows the closed position, the second the fully opened valve. (A partially opened valve is subject to premature wear).

## SPECIFICATIONS

|                           |                                 |
|---------------------------|---------------------------------|
| <b>Size Range</b>         | NPS 2" to 60"                   |
|                           | 50mm to 1500mm                  |
| <b>Temperature Range</b>  | Pending Model Selected          |
| <b>Operating Pressure</b> | Pending Model Selected          |
| <b>Body Style</b>         | One-Piece Flanged or Wafer Body |
| <b>Compatibility</b>      | Bray 205, 210, or 211 Series    |
| <b>Leakage Rate</b>       | API 598                         |

## APPLICATIONS

- > Automated control systems

## MEDIA

- > Dry Chlorine (Gas or Liquid)
- > Gases
- > Hydrogen
- > Oxygen
- > Water

## DESIGN FEATURES

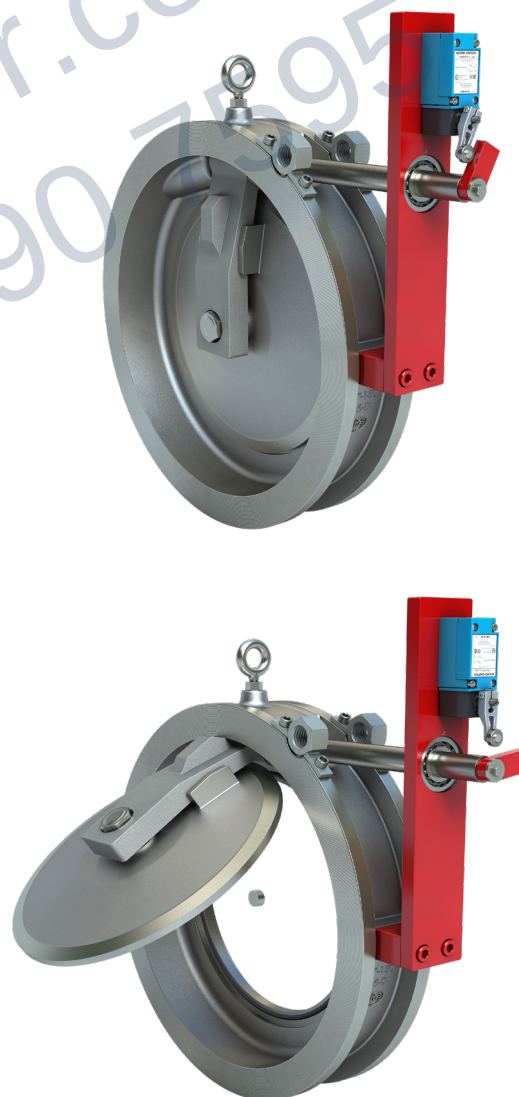
The Bray Series SA2 **check valve accessory** offers single door check valve design modification to alter flow conditions:

### APPLICATION:

The purpose of equipping a standard Bray/Rite Single Door Wafer or Flanged Type Swing Check Valve with a Limit Switch, is to provide remote indication of valve position and a positive indication of flow within an automated control system environment.

### GENERAL DESCRIPTION:

The Model SA2 is a standard Bray/Rite Single Door Wafer or Flanged Type Swing Check Valve that has been modified to allow the use of a limit switch to indicate the valve is in the closed position. The basic valve has a Disc/Hinge assembly connected to a positive hexagonal drive Shaft which extends through the Body. The Shaft is supported by the Body at one end, a Stainless-Steel Seal Bushing in the center and by a Ball Bearing at the end. The Ball Bearing is used in the Bracket to provide support and to reduce friction. O-Rings seal the Shaft, Seal Bushings and the Body to prevent leakage.



**MATERIAL OPTIONS<sup>1</sup>**

|                          |                                                     |
|--------------------------|-----------------------------------------------------|
| <b>Body</b>              | ASTM A 216 WCB*                                     |
| <b>Hinge</b>             | ASTM A351-CF8M                                      |
| <b>Seat (optional)</b>   | ASTM A240-304                                       |
| <b>Spring</b>            | ASTM A313-316                                       |
| <b>Spacer</b>            | ASTM A479-316                                       |
| <b>Shaft</b>             | F316 under 4", and ASTM A564-630 (17-4 PH) above 4" |
| <b>Plug</b>              | Steel (or as per body)                              |
| <b>Lock Nut</b>          | Steel Zinc Plated                                   |
| <b>Eye Bolt</b>          | Steel Zinc Plated                                   |
| <b>Name Plate</b>        | SS316                                               |
| <b>Disc</b>              | ASTM A351-CF8M                                      |
| <b>Rivet</b>             | Steel Zinc Plated                                   |
| <b>O-Ring (optional)</b> | Buna / EPDM / Teflon / TES / Viton                  |
| <b>Disc Nut</b>          | Stainless Steel                                     |
| <b>Seal Bushing</b>      | ASTM A479-316                                       |
| <b>O-Ring</b>            | Buna / EPDM / Teflon / TES / Viton                  |
| <b>O-Ring</b>            | Buna / EPDM / Teflon / TES / Viton                  |

|                          |                                           |
|--------------------------|-------------------------------------------|
| <b>Bracket</b>           | Steel                                     |
| <b>Socket Head Screw</b> | Steel Zinc Plated                         |
| <b>Dowel Pin</b>         | Steel Zinc Plated                         |
| <b>Ball Bearing</b>      | Steel                                     |
| <b>Set Screw</b>         | Steel Zinc Plated                         |
| <b>Set Screw</b>         | Steel Zinc Plated                         |
| <b>Actuator</b>          | Steel                                     |
| <b>Limit Switch</b>      | Electrostatic Epoxy Coated Zinc (Housing) |
| <b>Socket Head Screw</b> | Steel Zinc Plated                         |

**Note:** <sup>1</sup> Materials available in ASME and EN grades.  
\* Other materials available: A126-CLB, A395, A351-CF8M, Monel, Alloy 20, 254 SMO.  
All external components can be offered in SS where required.  
\* Previous Models before July 2024 may have included slightly different material configurations/parts callout lists.