

SPECIAL APPLICATION SERIES SA01 EXTERNAL LEVER AND SPRING CHECK VALVE ACCESSORY



OVERVIEW

The Bray Series SA01 check valve accessory with external lever & spring is designed to apply additional force for valve closure. This is used when the valve needs force to close in rapid media instances with high potential for flow reversal.

SPECIFICATIONS

Size Range	NPS 2" to 12" 50mm to 300mm
Temperature Range	Pending Model Selected
Operating Pressure	Pending Model Selected
Body Style	One-Piece Flanged or Wafer Body
Compatibility	Bray 205, 210, or 211 Series
Leakage Rate	API 598

APPLICATIONS

- > Header Manifolds
- > Mining
- > Pump protection
- > Sewage lift stations
- > Steel mills
- > Water pump stations

MEDIA

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

DESIGN FEATURES

The Bray Series SA01 **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 an external lever and spring, is to provide external control, which is field adjustable, in applications such as: multiple pumping installations terminating in common headers, where transient forces are difficult to ascertain and control.

GENERAL DESCRIPTION:

A Model SA01 is a standard Bray/Rite Single Door Wafer or Flanged Type Swing Check Valve which has been converted, featuring a positive hexagon drive at the Disc/Hinge/Shaft connection. The Shaft extends through and is supported in the Body by a Stainless Steel Seal Bushing and externally by a Ball Bearing mounted in a Bracket. O-Rings seal the Shaft and the Body. A Spring mounted between the Bracket and the Shaft provides for adjustment and rapid closure. The Disc is supplied with a non-rotating feature to prevent it from "Spinning" and creating excessive wear at the Disc/Hinge connection.



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MATERIAL OPTIONS¹

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

Spring Adaptor	Steel
Retaining Plate	Steel
Socket Head Screw	Steel Zinc Plated
Bracket	Steel
Socket Head Screw	Steel Zinc Plated
Dowel Pin	Steel Zinc Plated
Ball Bearing	Steel
Round Head Screw	Steel Zinc Plated
Nut	Steel Zinc Plated
Spring	ASTM A313 302/304 (Optional ASTM A313 316, 17-7 PH Stainless Steel, Inconel X 750)

Note: ¹ Materials available in ASME and EN grades.
 * Other materials available: A126 CLB, A395, A351-CF8M, Monel, Alloy 20, Hastelloy, 254SMO, Titanium.
 All external components can be offered in SS where required.
 This model is only available up to 12" in size.
 * Previous Models before July 2024 may have included slightly different material configurations/parts callout lists.