

SPECIAL APPLICATION RITE SERIES SA3 BACKFLUSH LEVER & EXTERNAL SPRING CHECK VALVE ACCESSORY



OVERVIEW

The Bray Series SA3 check valve accessory is designed to allow manual operation in applications requiring backflush processes where valve needs force to close.

SPECIFICATIONS

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

APPLICATIONS

- > Backflushing pipelines
- > Food & Beverage

MEDIA

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

DESIGN FEATURES

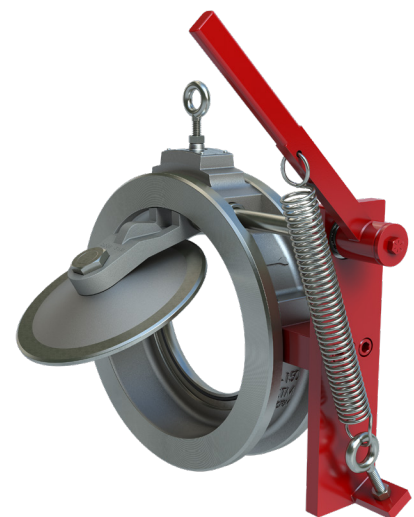
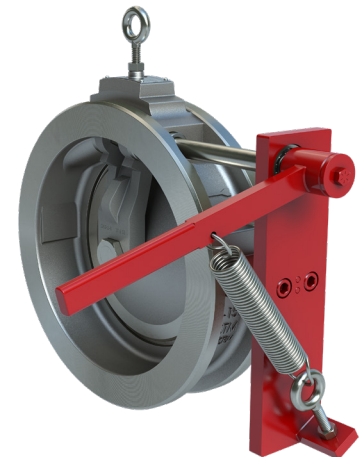
The Bray Series SA3 check valve accessory offers single door check valve design modification to alter flow conditions:

APPLICATION:

The purpose of equipping a standard Bray/Rite Single Door Wafer or Flanged Type Swing Check Valve with a Backflush Lever & External Spring, is to allow backflush process while retaining elements of external control, that is field adjustable, in applications such as: backflushing pipelines for chemical washes in the food and beverage industry.

GENERAL DESCRIPTION:

A Model SA3 is a standard wafer 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 mounting. The Shaft extends through and is supported in the Body by a Stainless-Steel 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 A216-WCB*
Hinge	ASTM A351-CF8M
Seat	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/ Lever	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
Nut	Steel Zinc Plated
Spring	ASTM A313 302/304 (Optional ASTM A313 316, 17-7 PH Stainless Steel, Inconel X 750)

Note: ¹Materials 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.
 * Previous Models before July 2024 may have included slightly different material configurations/parts callout lists.