

SPECIAL APPLICATION RITE SERIES SA10 DUAL-BALANCED WEIGHTS CHECK VALVE ACCESSORY



OVERVIEW

The Bray Series SA10 check valve accessory includes dual-balanced weights. The first weight is designed to adjust cracking pressure, and the second weight is designed to counter balance the disc. This model can be used in low flow rate applications.

SPECIFICATIONS

Size Range	NPS 2" to 48" 50mm to 1200mm
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

- > Blower
- > Low-flow

MEDIA

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

DESIGN FEATURES

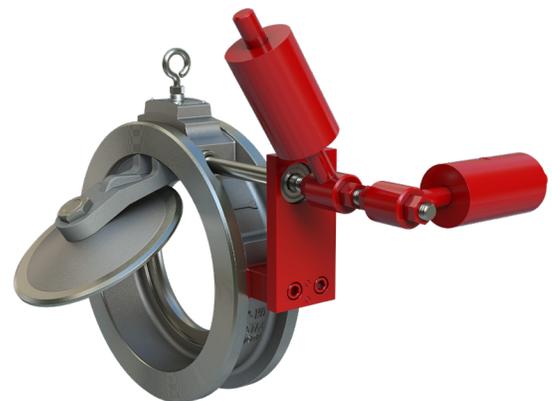
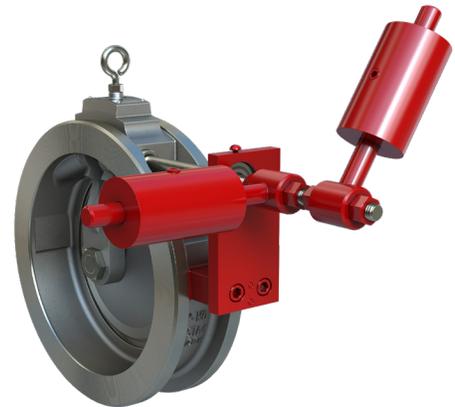
The Bray Series SA10 check valve accessory offers single door check valve design modification to alter flow conditions:

APPLICATION:

The purpose of equipping a standard Bray/Rite Single Door Wafer or Flanged Type Swing Check Valve with external dual-balanced weights is to provide field adjustable external control, in applications such as blowers where the flow rates are often insufficient to keep a standard valve fully open. The basic principle is to adjust the balance weights so that the valve is fully opening while the fluid is flowing and fully closed when there is no flow. By using two weights it is easy to position the arms so that the valve operates correctly under most flow conditions.

GENERAL DESCRIPTION:

A Model SA10 is a basic 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 basic valve has a Hinge-Disc assembly connected to a positive hexagonal drive shaft, which extends through the body. The shaft is supported by the body at one end, by a bushing in the body and by a ball bearing in the bracket. Four O-Rings seal the shaft and the body. The two weight levers which support the weights are secured to the shaft with Lock Nuts. The weight levers can be rotated on the shaft independently.



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DUAL-BALANCED WEIGHTS
CHECK VALVE ACCESSORY**



MATERIAL OPTIONS¹

Body	ASTM A216 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	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

Weight Lever	Steel
Bracket	Steel
Socket Head Screw	Steel Zinc Plated
Dowel Pin	Steel Zinc Plated
Ball Bearing	Steel
Set Screw	Steel Zinc Plated
Weight	Steel
Socket Head Screw	Steel Zinc Plated
Lock Nut	Steel Zinc Plated

Note: ¹ Materials available in ASME and EN grades. Other flange standards available. (BS, DIN, ISO, etc)
 * Other materials available: A126 CLB, A395, A351-CF8M, Monel, Alloy 20, Hastelloy, 254SMO, Titanium.
 All external components can be offered in SS where required. Downflow models available.
 * Previous Models before July 2024 may have included slightly different material configurations/parts callout lists.