

OVERVIEW

The Rite® 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 Materials Selected
Operating Pressure	Pending Pressure Class Selected
Body Style	One-Piece Flanged or Wafer Body
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 Rite® Series SA10 check valve accessory offers single door check valve design modification to alter flow conditions:

APPLICATION:

The purpose of equipping a standard Rite® Series 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 opened 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:

The model SA10 is a standard Rite® Series Single Door Swing Check Valve that has been converted, featuring a positive hexagon drive at the disc/hinge/shaft connection. The shaft extends through and is supported by the body at one end, by a bushing in the body, and by a ball bearing designed to reduce friction mounted in a bracket on the opposing side. O-rings seal the shaft, seal bushing and the body to prevent leakage. The two weight levers supporting the weights are secured to the shaft with lock nuts. Each lever can be independently rotated around the shaft axis, allowing precise adjustment to optimize valve operation.

Figure 01: SA10 Rear View Closed (Right Hand Mount Displayed and Provided As Standard).

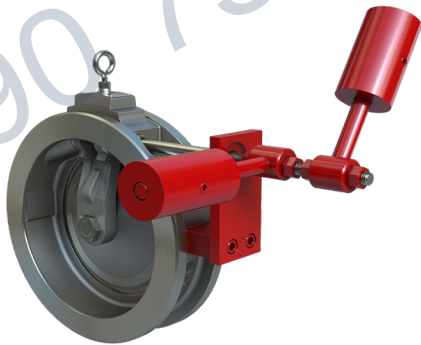
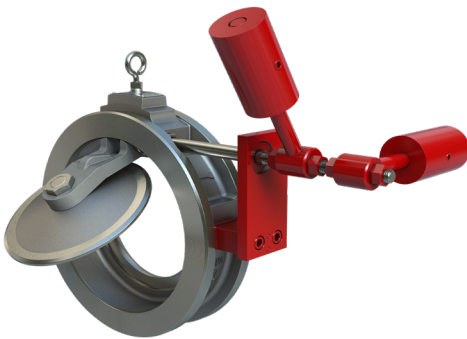


Figure 02: SA10 Rear View Open.



MATERIAL OPTIONS¹

Seal Bushing	Stainless Steel (ASTM A479 316)
Seal O-Rings (x4)	BUNA-N, EPDM, FKM-A, HNBR, Neoprene PTFE-virgin, Teflon encapsulated silicone, Viton
Bracket	Steel
Socket Head Screws (x4)	Steel Zinc Plated
Dowel Pins (x2)	Steel Zinc Plated
Ball Bearing	Steel
Set Screw	Steel Zinc Plated
Weight Lever (x2)	Steel
Lock Nut (x4)	Steel Zinc Plated
Weight (x2)	Steel

Rite® Series Check Valve Integral Hard Seat type part number:
V0215XBZ205**SA10** (For 2", Class 150, Stainless Steel (ASTM A351
CF8M) Body, BUNA-N O-Ring, SS Spacer, Series 205, **Special**
Application Series A10).

Figure 04: Seal Bushing & O-Ring Close up.

