

SPECIAL APPLICATION SERIES SA16 EXTERNAL WEIGHT & LEVER CHECK VALVE ACCESSORY



OVERVIEW

The Bray Series SA16 check valve accessory is designed to provide additional external mass to increase the cracking pressure to alter the closing force of the disc during open/close. This valve is used where flexibility is required on-site to alter the closing characteristics of the valve.

SPECIFICATIONS

Size Range	NPS 2" to 24" 50mm to 600mm
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

- > Solids handling
- > Vacuum
- > Wastewater

MEDIA

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

DESIGN FEATURES

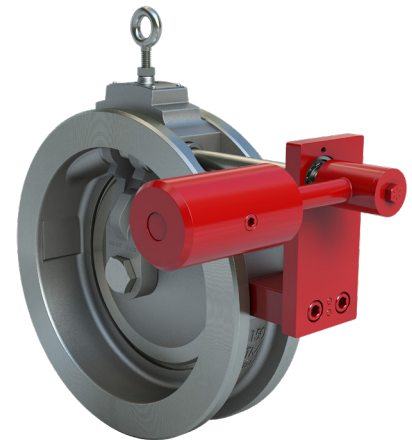
The Bray Series SA16 check valve accessory offers single door check valve design modification to alter flow conditions:

APPLICATION:

The Model SA16 is a standard Bray/Rite Single Door Wafer or Flanged Type Swing Check Valve that has been modified with an external weight and lever to provide the user with the ability to change the opening pressure of the valve, within a certain range and/or change the closing characteristics of the valve. A weight is used to provide the necessary torque to close the valve.

GENERAL DESCRIPTION:

The Model SA16 is a basic Bray/Rite Single Door Wafer or Flanged Type Swing Check Valve which has been converted, featuring a positive hexagonal drive at the Disc/Hinge/Shaft connection. 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, by a Bushing in the Body and by a Ball Bearing in the Bracket. Four O-Rings seal the Shaft and the Body. The Weight Lever, which supports the Weight, is connected to the Shaft with a Bushing. The Weight Lever can be rotated on the Shaft.



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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 (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

Weight 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
Round Head Screw	Steel Zinc Plated
Weight	Steel
Socket Head Screw	Steel Zinc Plated

Notes: ¹ Materials available in ASME and EN grades.
^{*} Other materials available: 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.