

SEAT-ON-BODY BUTTERFLY VALVES



- AWWA C504
- SERIES 4700 (3"-24")
- SERIES 4750 (30"-36")
- NSF/ANSI 61/372 CERTIFIED

MARKETS



WATER/
WASTEWATER



INDUSTRIAL

SPECIFICATIONS

Size Range	3"-36"
Materials	Ductile iron ASTM A536 body and disc (316SS disc for 3" size), 316SS disc edge, 316SS stem and fasteners (630SS stem on CL 250B), EPDM seat and packing
Pressure Class	AWWA CL 150B (150psi) or 250B (250psi)
Temperature Range	0°F-250°F
Body Style	FLG, MJ
Actuator Types	Lever, traveling nut, worm gear, electric motor, pneumatic, hydraulic
Standards	AWWA C504, NSF/ANSI 61/372 certified
Install Orientation	Horizontal or vertical
Featured Applications	Treatment plants, pump stations, buried/vault, irrigation, pump isolation, on/off, throttling, modulating
Water Service	Potable water, industrial water, secondary effluent



ENGINEERING FEATURES

SERIES 4700 • SIZES 3"-24"

ACTUATOR MOUNTING PAD

Butterfly valves come standard with an integrally cast actuator mounting pad; machined and drilled in accordance with ISO-5211 and MSS SP-101. For buried service valves, this allows for direct mounting of manual and automate actuators without the need of additional plates, brackets or adapters, providing a more compact and rigid arrangement. Above ground service valves come standard with adjustable packing.

STAINLESS STEEL SHAFT

Our butterfly valves utilize stainless steel shafts to resist corrosion and ensure long valve, bearing, and packing life. 316SS is the standard shaft material for CL 150B, while 630SS (17-4) stainless steel is utilized for CL 250B.

FULL RUBBER LINED BODY

Our fully rubber-lined bodies for 3"-24" valves eliminates the need for inner body coating and effectively prevent abrasion from particulate in the media.

PINNED SHAFT CONNECTION

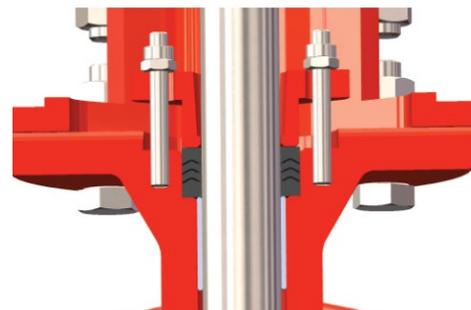
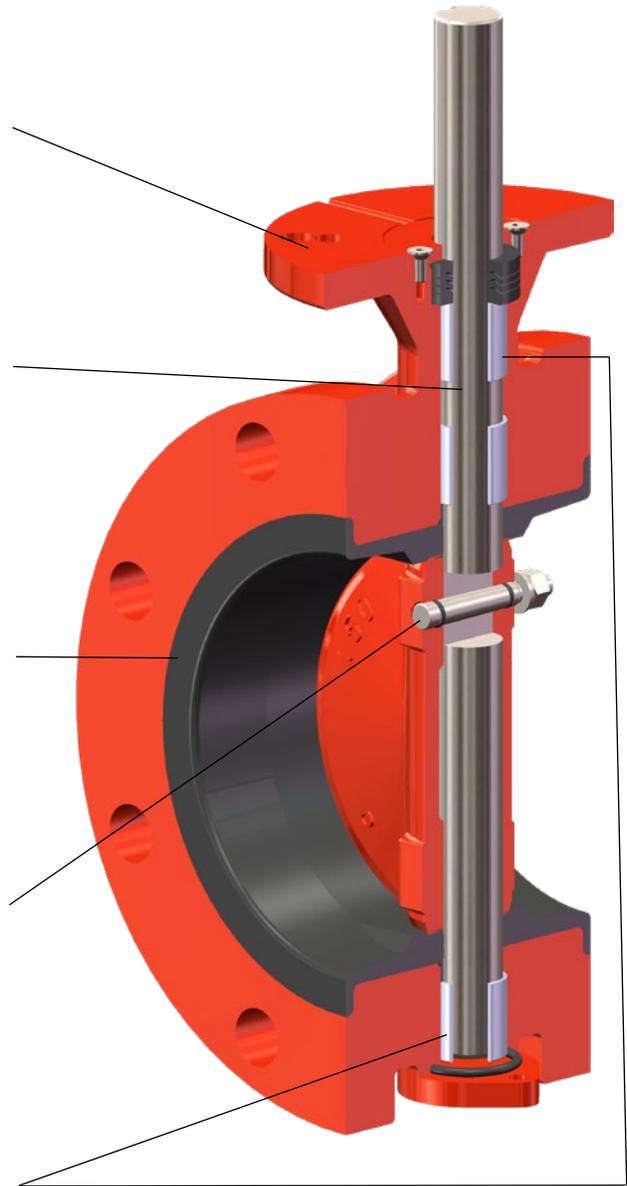
Our disc-to-shaft pinning connections are built in accordance with AWWA C504. We utilize a 630SS (17-4) pin that is held in place with stainless steel nuts, creating a strong and reliable connection. This ensures that our customers will get many years of dependable, backlash-free service from their valve.

LONG LIFE BEARINGS

PTFE-lined fiberglass bearings are designed to provide low friction and long life, reducing the required maintenance and requiring no lubrication.

FIELD ADJUSTABLE PACKING

Our above ground service valves feature field- adjustable, V-type (chevron) packing, allowing for quick packing adjustments without disassembling the valve. It's a highly practical feature that streamlines the process of packing adjustments and ensures minimal disruptions to your operations.



ENGINEERING FEATURES

SERIES 4750 • SIZES 30"-36"

ACTUATOR MOUNTING PAD

Butterfly valves come standard with an integrally cast actuator mounting pad, machined and drilled in accordance with ISO-5211 and MSS SP-101. This allows for direct mounting of manual and automated actuators without the need of additional pieces or adapters, providing a more compact and rigid arrangement.

STAINLESS STEEL SHAFT

Our butterfly valves utilize stainless steel shafts to resist corrosion and ensure long valve, bearing, and packing life. 316SS is the standard shaft material for CL 150B, while 630SS (17-4) stainless steel is utilized for CL 250B.

MECHANICALLY RETAINED SEAT

The seat has been designed with maintenance in mind, making it easy to replace even in the field. This means that users can conveniently install a new seat without needing to take their equipment to a service center, increasing uptime and reducing maintenance costs.

PINNED SHAFT CONNECTION

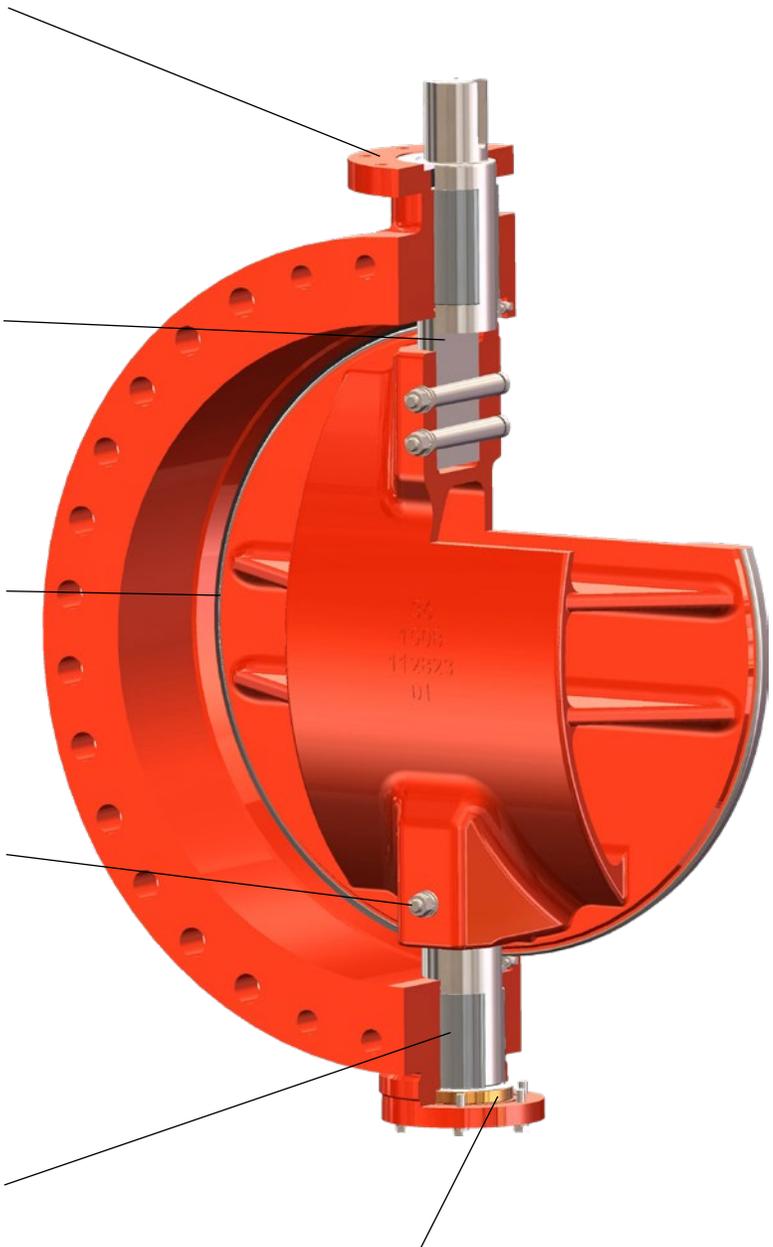
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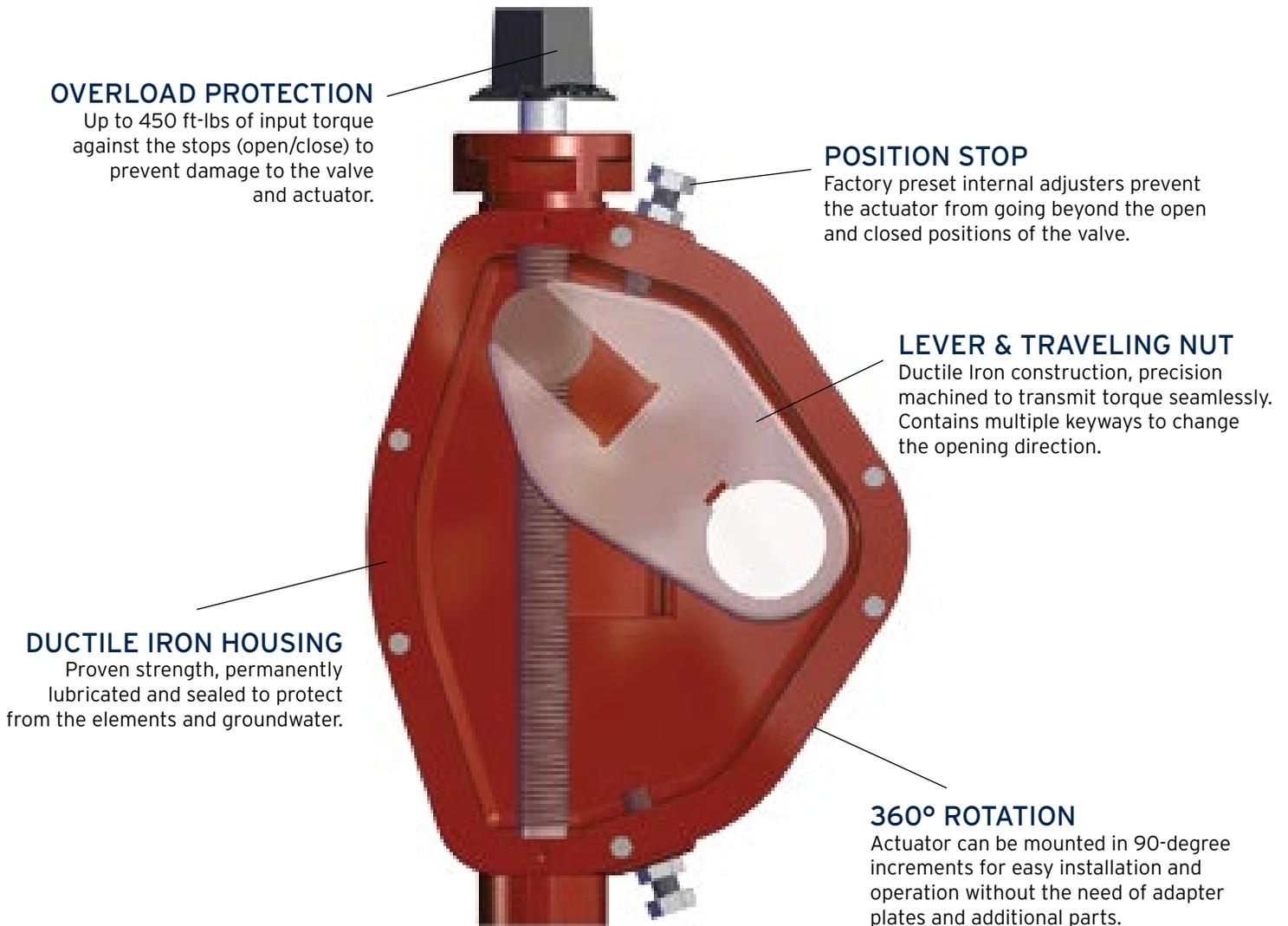
ADJUSTABLE THRUST BEARING

Bronze thrust bearing accurately centers vane in valve body. Accurate alignment is held in installation position. Factory adjusted for the life of the valve.



TRAVELING NUT ACTUATORS

MPI style 4700 seat-on-body butterfly valves use slotted-lever traveling nut actuators on valve sizes 24" and smaller for smooth operation. Traveling nut actuators were developed to match the valve torque characteristics, providing greater mechanical advantage near the valve open and close positions where it is needed most. The actuator slows down near the close position to help seat the disc, and the slower opening/closure reduces shocks to the connected piping system.



OVERLOAD PROTECTION

Up to 450 ft-lbs of input torque against the stops (open/close) to prevent damage to the valve and actuator.

POSITION STOP

Factory preset internal adjusters prevent the actuator from going beyond the open and closed positions of the valve.

LEVER & TRAVELING NUT

Ductile iron construction, precision machined to transmit torque seamlessly. Contains multiple keyways to change the opening direction.

DUCTILE IRON HOUSING

Proven strength, permanently lubricated and sealed to protect from the elements and groundwater.

360° ROTATION

Actuator can be mounted in 90-degree increments for easy installation and operation without the need of adapter plates and additional parts.



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