

**DeZURIK ANSI/AWWA BUTTERFLY VALVES (BAW)
CLASS 250B
3-18" (80-450mm) FLANGED END &
3-20" (80-500mm) MECHANICAL JOINT END
SUGGESTED SPECIFICATION**



APPLICATION DATA 43.01-7
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Supersedes 43.01-7, 43.01-8,
43.01-9, & 43.01-10
Dated July 2012

ANSI/AWWA C504 Butterfly valves shall be model BAW as manufactured by DeZURIK or pre-approved equal.

Butterfly valves 3-20" (80-500mm) shall meet or exceed the latest revision of ANSI/AWWA Standard C504 and shall meet or exceed the requirements of this specification. Valves shall have a working pressure of 250 psi (1720 kPa). When customer specified, valves shall meet NSF/ANSI 61/372.

Valve bodies shall be of ductile iron per ASTM A536 (65-45-12). Flanged end valves shall be of the short body design with Class 150 or 250 flanged ends faced and drilled per ASME B16.1 standard for cast iron flanges. Mechanical Joint end valves shall meet the requirements of ANSI/AWWA C111/ANSI 21.11.

Discs shall be offset to provide an uninterrupted 360 degree seating edge and shall be ductile iron per ASTM A536 (65-45-12) or 316 stainless steel ASTM A743. The disc seating edge shall be solid 316 stainless steel. Sprayed mating seating surfaces are not acceptable. The disc shall be securely attached to the valve shaft utilizing a field removable/replaceable 17-4 PH stainless steel torque screw on sizes 3-12" (80-300mm) or a tangential pin locked in place with a set screw on sizes 14-20" (350-500mm).

Valve shafts shall be of ASTM A564 Type 630, 17-4 PH stainless steel. Valve shaft seals shall be self-compensating V-type packing with a minimum of four sealing rings. One-piece molded shaft seals and o-ring shaft seals are not acceptable.

Seat shall be of Acrylonitrile-Butadiene (NBR) for water, or as required for other services, and shall be molded in and vulcanized to the valve body. The seat shall contain an integral shaft seal protecting the valve bearings and packing from any line debris. Seats vulcanized to cartridge inserts in the valve body and seats on the disc are not acceptable.

Valve shaft bearings shall be non-metallic and shall be permanently lubricated.

Coatings - unless otherwise specified by customer, exterior and interior metallic surfaces of each valve shall be painted per the latest revision of ANSI/AWWA C504. The interior of the body shall have a full rubber lining vulcanized to the valve body. Rubber lining on the flange face and boot style seats is not acceptable. Mechanical Joint valves shall be fully rubber lined to the point of pipe insertion.

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Actuators shall be sized to customer specified operating conditions. If actual operating conditions are not provided within customer specification, per ANSI/AWWA C504, the valve actuator shall be sized to operate the valve at the rated working conditions of the valve. Each valve and valve actuator shall be assembled, adjusted, and tested as a unit per the latest revision of ANSI/AWWA C504, by the valve manufacturer.

Manually actuated valves 3-20" (80-500mm) shall be designed and tested per the requirements of ANSI/AWWA C504. Actuators shall be available in both weatherproof and buriable constructions with handwheel, chainwheel, or 2" (51mm) square AWWA nut inputs. All units shall have independently adjustable open and closed position stops that are adjustable under full line pressure and flow. Open and closed position stop adjustments shall not require the removal of any load or torque transmitting components.

Pneumatic and hydraulic cylinder actuators shall be double acting, stationary mounted, with all working parts totally protected within weatherproof enclosures. Actuators must be in total conformance to AWWA C540, when specified.

Two Year Warranty shall be provided for all valves and actuators.