

**DeZURIK ANSI/AWWA BUTTERFLY VALVES (BAW)  
Class 150B  
3-20" (80-500mm) FLANGED END &  
4-20" (100-500mm) MECHANICAL JOINT END  
SUGGESTED SPECIFICATION**

**APPLICATION DATA 43.01-1**  
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Supersedes 43.01-1  
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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 requirements of the latest revision of AWWA Standard C504 for Class 150B butterfly valves. Valves 12" (300mm) and smaller shall have a working pressure of 200 psi (1380 kPa). When customer specified, valves shall meet NSF/ANSI 61/372.

Valve bodies shall be of cast iron per ASTM A126 Class B. Flanged end valves shall be of the AWWA C504 short body design with Class 125 flanged ends faced and drilled per ASME B16.1 standard for cast iron flanges. Mechanical Joint end valves shall meet the requirements of AWWA C111/ANSI 21.11.

Discs shall be offset to provide an uninterrupted 360 degree seating edge and shall be ductile iron ASTM A536 (65-45-12) or 316 stainless steel ASTM A743. The disc shall be securely attached to the valve shaft utilizing a field removable/replaceable 316 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).

Disc edges shall be solid ASTM A276, Type 316 stainless steel. Discs with bronze edges shall not be used. (Per AWWA C504, bronze disc edges are not suitable for installations where valves will be operated more than once per month.)

Valve shafts shall be ASTM A276, Type 316 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 permanently lubricated.

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

Actuators shall be sized to customer-specified operating conditions. If actual operating conditions are not provided within customer's 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 AWWA C504, by the valve manufacturer.

Ten position locking levers shall be available for 3-8" (80-200mm) valves. Provision must be made for locking in any of the ten positions using a standard padlock.

Manually actuated valves 3-20" (80-500mm) shall be designed and tested per the requirements of AWWA C504. Actuators shall be available in both weatherproof and buriable constructions with handwheel, chainwheel, or 2" (50mm) square AWWA nut input. 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.