

Combination Air Valve

Single Body Combination Valves shall have an expanded outlet to provide full flow area around the guide mechanism. The valve shall have a double guided plug on 2 inch (50mm) and larger sizes, and an adjustable threaded orifice button. The plug shall be protected against direct water impact by an internal baffle. On valve sizes 4 inches (100mm) and smaller, the plug shall have a precision orifice drilled through the center stem. On valve sizes 6 inch (150mm) and larger, air release and air/vacuum mechanisms shall be provided as separate units contained within the same body and meet the same design specifications for the Dual Body Combination Valve.

The valve shall have two (2) additional NPT connections for the connection to gauges, testing, and draining.

The valve body and cover shall be constructed of ASTM A126 Class B cast iron for Class 125 and Class 250 valves. Class 300 ductile iron valves shall be constructed of ASTM A536 Grade 65-45-12 ductile iron. Dual Body Class 300 steel valves shall be constructed of ASTM A216 Grade WCB cast steel.

The float, guide shafts, and bushings shall be constructed of Type 304 stainless steel. Non-metallic floats, linkage, or bushings are not acceptable. Resilient seats shall be Buna-N. Class 300 steel Dual Body Valves shall have a 304 stainless steel seat with Buna-N seal to provide an initial contact to Buna-N with a final metal-to-metal contact to prevent over compression of the resilient seat.

The manufacturer shall demonstrate a minimum of five (5) years experience in the manufacture of air valves. The valves shall be manufactured and tested in accordance with American Water Works Association Standard (AWWA) C512. When requested, the manufacturer shall provide test certificates, dimensional drawings, parts list drawings, and operation and maintenance manuals.

Combination Air Valves shall be Series 201C.2 (Single Body) or Series 100-22-50 (Dual Body) as manufactured by Valmatic and supplied by Syntec Process Equipment Ltd.