C SERIES COMBINATION AIR RELEASE VALVES SPECIFICATION

C Series Sizes 1/2"-10", AWWA C512

GENERAL

C Series Combination Air Release Valves shall be designed, manufactured and tested in accordance with American Water Works Association Standards AWWA C-512. The combination air valve(s) shall be installed at high points in the system or at points selected by the engineer. This will permit discharging the surge of air from an empty line when filling and relieve the vacuum when draining, and also release accumulations of air when the system is under pressure.

BODIES

The body of the valve shall be one integral casting or 2 valve bodies flange bolted together containing an Air and Vacuum Valve and a separate Pressure Valve mechanism.

The Air and Vacuum Valve shall operate by sealing the BUNA-N rubber outlet seat with a peripherally guided float as the liquid enters the valve chamber to raise the float. All Crispin Valves are hydro-statically tested at 150% of their maximum working pressure.

The Pressure Air Release Valve shall operate through simple or compound levers to permit air to be released under operating conditions.

FLANGING

The valve shall have a _____” orifice with valve sealing faces of an adjustable BUNA-N valve and (stainless steel or PVC) and shall operate at _____ PSIG and be capable of passing _____ SCFM of air.

The valve(s) shall be _____” NPT screwed or ANSI Class (125, 250) flanged inlet connection and shall be cast iron body, top, and inlet flange (where required), stainless steel floats with bronze and brass or stainless steel trim. Refer to Air & Vacuum and Pressure Air Release specifications for Valve description.

OPTION 1

A protectop shall be supplied to prevent debris from entering the outlet of the Air and Vacuum Valve.

OPTION 2

Where pressures are greater than 300 psig, the valve(s) shall be ANSI Class flanged inlet connection and shall have a (steel, stainless steel, or ductile iron) body, top and inlet flange.

Standard operating pressure for Crispin Air Valves is 20 to 150 PSIG. Please check one of the following if your operating needs differ:
_____ 2 to 40 PSIG _____ 151 to 300 PSIG

ACCEPTABLE MANUFACTURERS

The valve(s) shall be CRISPIN Model _____ Combination Air Valve, Type N, (PVC seat and BUNA-N rubber valve) or Type P (stainless steel seat and BUNA-N rubber valve) pressure valve as manufactured by Crispin-Multiplex Manufacturing Co., Berwick, Pa.

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