

MODEL 4000B

Reduced Pressure Principle Backflow Prevention Assembly



FOR HIGH HAZARD CROSS CONNECTION CONTROL

***Ames : The Right Choice for Today,
Tomorrow, and the 21st Century***

■ **Features**

*Compact Design
Fully serviceable inline, no special tools.
Low pressure loss.
Cartridge check assembly for long term reliability,
ease of serviceability.
Single top entry inspection port for easy servicing.
ASSE 1013 approved assembly.
Optional air gap drain.
Hot and cold water applications.
Optional wye strainer.
175 PSI rated working pressure.
Straight through flow-way.*

■ **National Approvals***

*Contact factory for specific approvals

■ **Application**

The Ames 4000B provides protection to the potable water supply from contamination caused by a cross connection in a high hazard application.

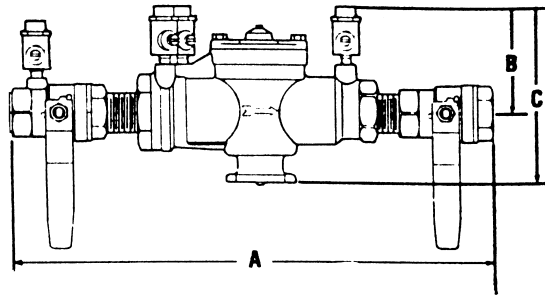
■ **Installation**

The 4000B should be installed with a minimum clearance of 12" between the lowest point of the assembly and the floor or grade. The 4000B may be installed horizontally or vertically (flow up). Refer to local codes for specific installation requirements. The assembly should be installed so the discharge can be positively drained away.

AMES
CO.
FLUID CONTROL SYSTEMS

MODEL 4000B

Reduced Pressure Principle Backflow Prevention Assembly



Ames 4000B - Weights & Dimensions (inches) Approximate

SIZE	A	B	C	Width	Weight lbs.
1/2"	10"	2 7/16"	4 5/8"	3 1/2"	4 1/2
3/4"	11 3/4"	3 3/4"	5"	3 1/2"	5 3/4
1"	16 3/4"	3 1/8"	5 1/2"	3 1/2"	12 1/4
1 1/4"	17 3/8"	3 5/8"	5 15/16"	5 1/4"	14 5/8
1 1/2"	17 3/8"	3 5/8"	5 15/16"	6 1/2"	15 1/2
2"	21 3/8"	4 1/4"	7 3/4"	7"	30

Physical Characteristics

Sizes - 1/2 , 3/4 , 1 , 1 1/4 , 1 1/2 , 2

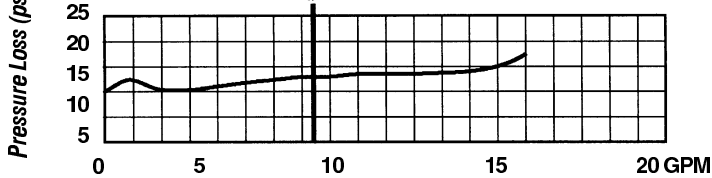
Rated working Pressure - 175 psi

Temperature range -33° to 180°F

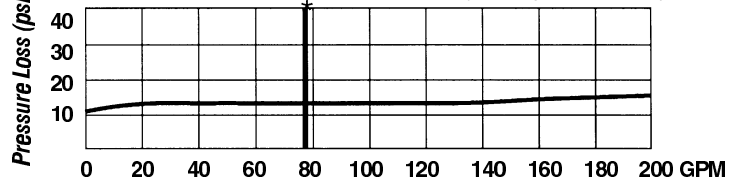
Construction - Bronze Body

Assembly shall be ASSE 1013 approved for vertical installations.

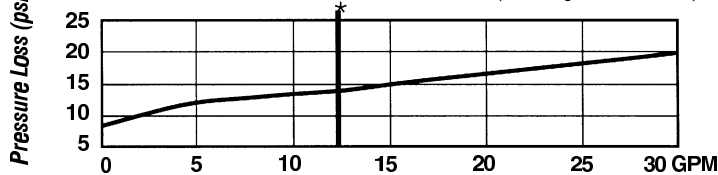
1/2" Documented Flow Characteristics (Including shut-off valves)



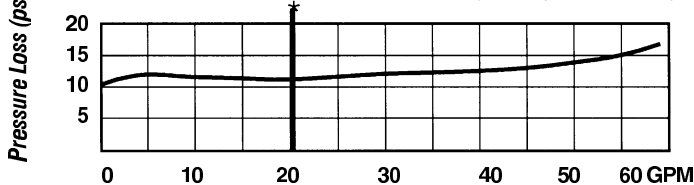
2" Documented Flow Characteristics (Including shut-off valves)



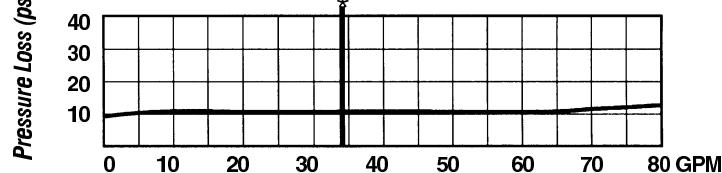
3/4" Documented Flow Characteristics (Including shut-off valves)



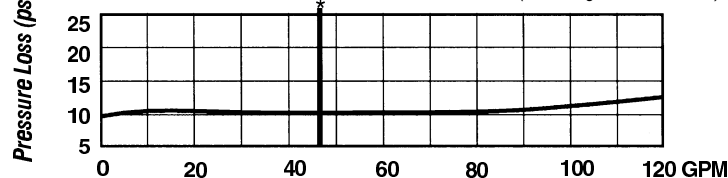
1" Documented Flow Characteristics (Including shut-off valves)



1 1/4" Documented Flow Characteristics (Including shut-off valves)



1 1/2" Documented Flow Characteristics (Including shut-off valves)



*Typical maximum flow rate = 7.5 feet/sec.

Specifications

The reduced pressure backflow preventer shall consist of an internal pressure differential relief valve located in a zone between two independently operation, positive seating check cartridges with captured springs and silicone seat discs. When normal flow exists, both checks are open and the pressure in the area between checks, called the zone, is at least 2 PSI lower than the inlet pressure. The differential pressure relief valve is closed during normal flow.

If cessation of normal flow occurs, the differential pressure relief valve will automatically open and discharge to maintain the zone at least 2 PSI lower than the inlet pressure. This action will prevent a backflow or back siphonage condition. After the required differential is established, the differential relief valve again closes. Seats and seat discs shall be replaceable in both check modules and the relief valve. Service of all internal components shall be through a single access cover secured with stainless steel bolts. No special tools shall be required for servicing.

Dimensions are subject to manufacturer's tolerance and change without notice. We assume no responsibility for use of superseded or void data.

AMES
FLUID CONTROL SYSTEMS