

AVB1 SERIES

ATMOSPHERIC TYPE VACUUM BREAKERS

The Apollo Series AVB1 Atmospheric Type Vacuum Breaker is designed to prevent back-siphonage of polluted water into a potable water system. It should only be installed in areas where spillage of water could not cause damage and where it can be accessible for periodic maintenance. This device is not designed for continuous pressure application. Should be installed a minimum of 6" above all downstream piping with no downstream shutoffs.

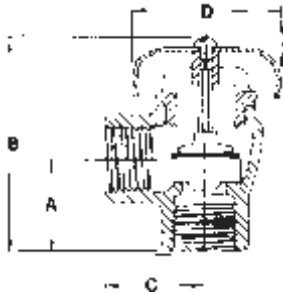


Sizes 1/4", 3/8", 1/2", 3/4", 1",
1-1/4, 1-1/2", 2"

MATERIALS

Valve Body	Cast Bronze
Seat Disc	Silicone
Float & Gasket	Polypropylene
Guide	Brass
Seat	Cast Bronze
Canopy	Chrome-plated Steel
Screw	Zinc-plated Steel

Contact local water authorities for installation/service requirements.



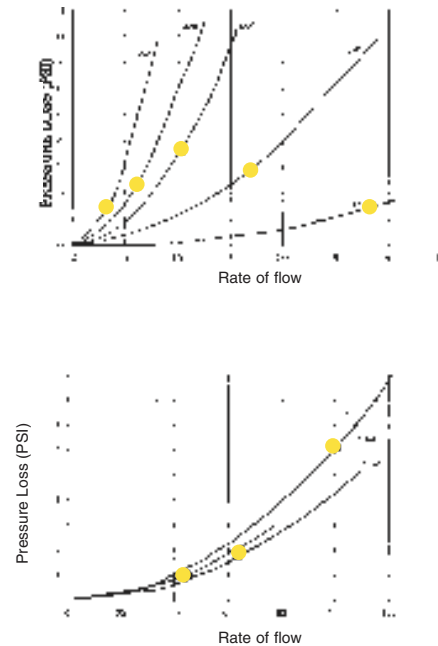
OPERATION

During flow conditions, the flow of water lifts the float disc and seals the atmospheric vent at all rates of flow, preventing leakage. When a negative pressure is created at the supply line or when the water supply valve upstream of the device is closed, the float disc will fall, thus opening the atmospheric vent. This prevents back-siphonage and creation of vacuum at the discharge line.

FEATURES

- Corrosion resistant
- Bronze body
- Suitable for hot or cold water service:
(up to 212°F at 125 psig) for up to 1"
(up to 180°F at 125 psig) for 1-1/4" thru 2"
- Heat resistant silicone seat disc
- Rough brass or polished chrome finish
- Easy to maintain
- Compact and lightweight
- Durable
- ASSE1001

Flow Curves : (*) Rated flow as determined by ASSE design performance standards.



SUFFIX

NO.	FINISH
01	Rough Brass
03	Rough Chrome
04	Polished Brass

Dimensions in.(mm) – Weights - lbs.(kg)

Ordering No.	Model No.	Size	A	B	C	D	Wt/100
38-101	AVB114	1/4 (6)	29/32 (23)	2-3/8 (60)	1-1/32 (26)	1-13/16 (46)	50.96 (23)
38-102	AVB138	3/8 (10)	29/32 (23)	2-3/8 (60)	1-1/32 (26)	1-13/16 (46)	47.7 (22)
38-103	AVB112	1/2 (15)	1-3/32 (28)	2-1/2 (65)	1-3/16 (30)	1-3/16 (30)	54.7 (25)
38-104	AVB134	3/4 (20)	1-5/16 (33)	3-1/16 (78)	1-15/32 (37)	2-1/8 (54)	79.7 (36)
38-105	AVB11	1 (25)	1-3/4 (45)	4-1/16 (103)	1-7/8 (48)	2-7/8 (73)	174 (79)
38-106	AVB1114	1-1/4 (32)	2 (50)	4-3/8 (111)	2 (50)	3-3/4 (95)	316 (143)
38-107	AVB1112	1-1/2 (40)	2 (50)	4-3/8 (111)	2 (50)	3-3/4 (95)	289 (131)
38-108	AVB12	2 (50)	2-1/8 (54)	4-1/2 (114)	2-1/4 (57)	3-3/4 (95)	369 (167)

AVB2 SERIES

ATMOSPHERIC TYPE VACUUM BREAKERS (FORGED BODY)

The Apollo Series AVB2 Atmospheric Type Vacuum Breaker is designed to prevent back-siphonage of polluted water into a potable water system. The device should only be installed in areas where spillage of water could not cause damage. This device is not designed for continuous pressure applications. Should be installed a minimum of 6" above all downstream piping with no shut offs downstream.



Sizes 1/4", 3/8, 1/2", 3/4"

OPERATION

During flow conditions, the flow of water lifts the float and seals the atmospheric vent, preventing leakage. If a negative pressure is created at the supply line or when the water supply valve upstream of the device is closed, the float will fall. This action opens the atmospheric vent, and prevents back-siphonage in the discharge line.

FEATURES

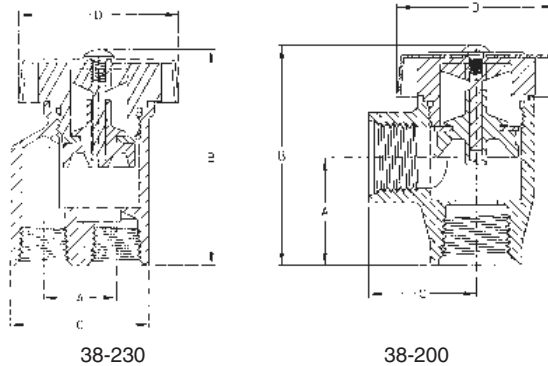
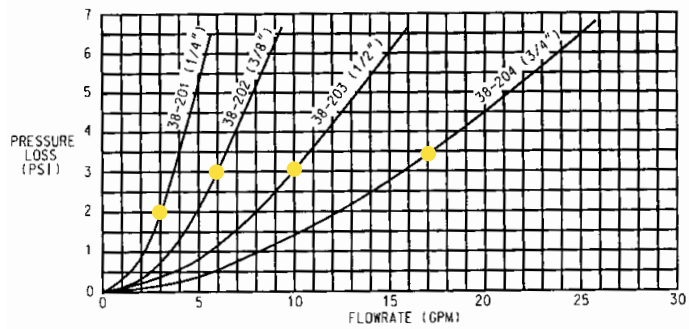
- Corrosion resistant
- Forged brass body
- Suitable for hot or cold water service up to 212°F and 125 psi
- Rough brass, rough chrome or polished chrome finish
- Easy to maintain
- Compact and lightweight
- ASSE1001

MATERIALS

Body	Forged Brass
Seat Disc	Silicone
Float	Polypropylene
Cap and guide	Noryl®
Canopy	Chrome-Plated Steel
Screw	Zinc-plated steel

Contact local water authorities for installation/service requirements.

Flow Curves : (*) Rated flow as determined by ASSE design performance standards.



SUFFIX

NO.	FINISH
01	Rough Brass
03	Rough Chrome
06	Polished Chrome
N	N Shape

Dimensions - in.(mm) – Weights - lbs.(kg)

Ordering No.	Model No.	Size	A	B	C	D	Wt/100
38-201	AVB214	1/4 (6)	1-3/32 (28)	2-5/16 (59)	1-1/32 (26)	21/32 (17)	50.6 (23)
38-202	AVB238	3/8 (10)	1-3/32 (28)	2-5/16 (59)	1-1/32 (26)	21/32 (17)	47.7 (22)
38-203	AVB212	1/2 (15)	1-9/32 (33)	2-5/8 (67)	1-9/32 (33)	1-7/8 (48)	54.7 (25)
38-204	AVB234	3/4 (20)	1-15/32 (37)	3 (80)	1-15/32 (37)	2 (50)	63.1 (29)
38-231N	DMVB14	1/4 (6)	3/4 (20)	2-7/32 (56)	1-7/16 (36)	21/32 (17)	26.2 (12)
38-232N	DMVB38	3/8 (10)	7/8 (22)	2-7/32 (56)	1-3/4 (44)	21/32 (17)	31.2 (14)

PVB-4A SERIES

4A VACUUM BREAKER

The Apollo Model PVB-4A Pressure Vacuum Breakers are designed to prevent contamination of potable water due to back-siphonage. An integral relief valve serves to reduce the possibility of damage due to intermittent freezing conditions. The modular check valve cartridge has a replaceable seat and a reversible silicone seat disc. Apollo ball valves with stainless steel handles and nuts are standard.



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

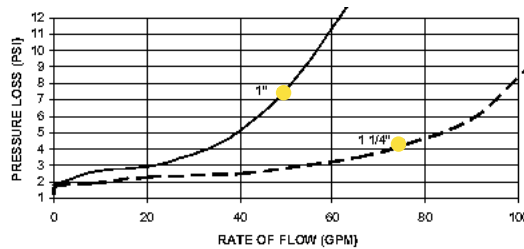
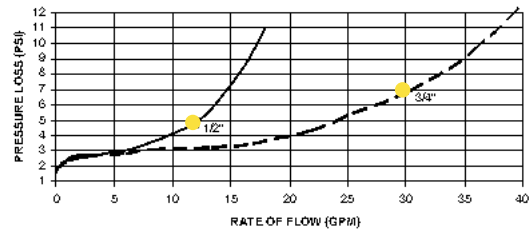
FEATURES

- Modular cartridge check valve
- Low pressure loss
- Built-in freeze resistant relief valve
- Compact yet easy to maintain
- Apollo ball valves w/SS handles & nuts standard
- Test cocks located for easy draining
- Corrosion resistant
- No special tools required
- Unique canopy detachment
- Patent pending
- ASSE 1020 (1/2" - 1")
- Easy maintenance
- Maximum operating pressure 150 psi
- Design pressure 300 psi
- Temperature range 33°F - 140°F
- MADE IN THE USA

MATERIALS

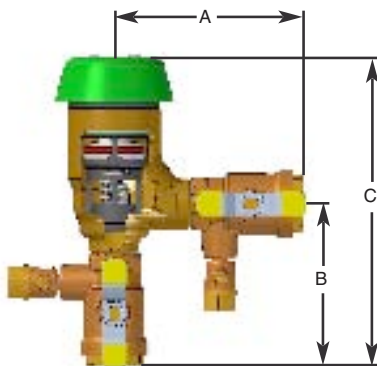
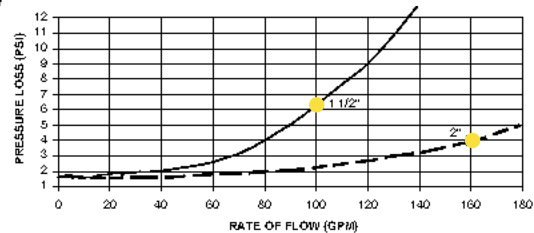
Body	Cast Bronze C84400
Canopy	UV Resistant ABS
Bonnet	Glass-Filled PPO
Check Valve	
Cartridge	Glass-Filled PPO
Springs	Stainless Steel
Seat Discs	Chloramine-resistant Silicone
Float	Glass-Filled Polypropylene
O-rings	Chloramine-Resistant EPDM
Ball Valve Handles	Stainless Steel

Contact local water authorities for installation/service requirements.



Flow Curves :

Pressure loss vs. flow data as determined by independent approval agencies.



Dimensions - in.(mm)		Size	A	B	C	Wt. lbs (kg)
Ordering No.	Model No.					
4A-503-02	PVB4A12	1/2" (12)	4-1/8 (105)	3-1/2 (89)	7 (178)	3.2 (1.5)
4A-504-02	PVB4A34	3/4" (20)	4-5/8 (117)	4 (100)	7-1/2 (190)	3.8 (1.7)
4A-505-02	PVB4A1	1" (25)	5-1/2 (140)	4-3/4 (120)	8-1/2 (215)	5.2 (2.4)
4A-506-02	PVB4A114	1-1/4" (32)	7-1/8 (180)	5-1/2 (140)	10 (250)	9.1 (4.1)
4A-507-02	PVB4A112	1-1/2" (40)	7-3/8 (185)	5-7/8 (150)	10-3/8 (265)	12.5 (5.7)
4A-508-02	PVB4A2	2" (50)	9 (230)	6-7/8 (175)	12 (300)	21.0 (9.5)

PVB-4V SERIES (Previously Model PVB)

FREEZE RESISTANT PRESSURE VACUUM BREAKER

The Apollo Series PVB-4V Pressure Vacuum Breaker is designed to prevent contamination of the potable water supply due to back-siphonage. The PVB is ideally suited for continuous pressure, outdoor applications such as irrigation equipment, livestock watering systems, swimming pools, etc. The device consists of a unique one piece cap/float assembly and independently acting check valve, all attractively packaged in a rugged yet compact bronze body. All components are made of corrosion resistant materials, guaranteeing years of reliable service.



FEATURES

- Removable integral check valve
- One piece cap/float assembly
- Built-in freeze relief valve in cap/float assembly
- Corrosion resistant construction
- Comes standard with Apollo® full port ball valves with stainless steel handles
- Maximum working pressure 150 psig
- Operating temperature range 33°F-180°F
- USC FCCCHR
- ASSE 1020
- CSA
- Easy maintenance

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

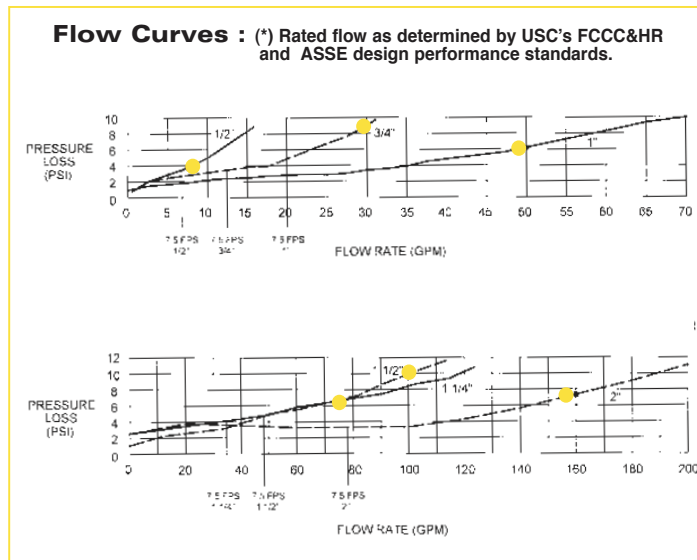
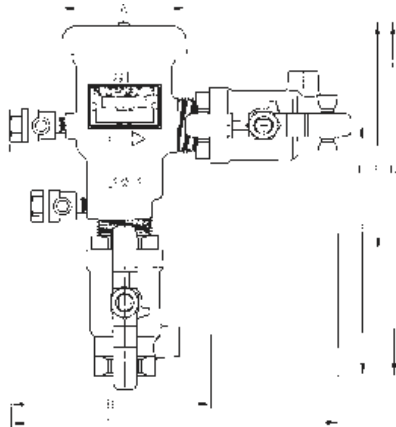
MATERIALS

Body	Bronze
Canopy	Powder Coated Steel
Cap	Acetal
Check Valve	Acetal
Float	Acetal
Springs	Stainless Steel
Test Cocks	Brass
Ball Valve Handles	Stainless Steel

Contact local water authorities for installation/service requirements.

ORDERING CODE - 4V - 50X - 0XX

SIZE	SHUT-OFF VALVES	OPTIONS (CAN BE COMBINED)
3-1/2"	1-less ball valves	F-SAE threaded test cocks
4-3/4"	2-w/ ball valves (standard)	LL-locking lever handles
5-1"	4-w/union ball valves	
6-1-1/4"		
7-1-1/2"		
8-2"		



Dimensions - in(mm) - Weights - lbs.(kg)

Model No.	PVB4V12	PVB4V34	PVB4V1	PVB4V114	PVB4V112	PVB4V2
Ordering No.	4V-503	4V-504	4V-505	4V-506	4V-507	4V-508
Body Size	1/2" (15)	3/4" (20)	1" (25)	1-1/4" (32)	1-1/2" (40)	2" (50)
A	3 (76)	3 (76)	3 (76)	3-3/4 (95)	3-3/4 (95)	5-1/4 (133)
B (Less Ball Valves)	4-3/4 (120)	4-3/4 (120)	4-3/4 (120)	5-3/8 (137)	5-3/8 (137)	6-5/8 (168)
C	6-3/8 (162)	7-1/8 (180)	7-1/2 (190)	8-3/4 (222)	9-1/4 (235)	10-1/4 (260)
D	7-1/8 (180)	7-5/8 (194)	8-3/8 (212)	10-5/8 (270)	10-7/8 (275)	12-1/8 (308)
E	4-5/8 (117)	5-1/8 (130)	5-7/8 (150)	7-3/8 (187)	7-3/8 (187)	7-1/8 (180)
F (Less Ball Valves)	5-3/8 (137)	5-3/8 (137)	5-3/8 (137)	6-7/8 (175)	7-1/4 (185)	8-5/8 (220)
Test Cocks	1/8 x 1/4 NPT	1/8 x 1/4 NPT	1/8 x 1/4 NPT	1/4 x 1/4 NPT	1/4 x 1/4 NPT	1/4 x 1/4 NPT
Net Wt. (Less Ball Valves)	2.2 (1.0)	2.2 (1.0)	2.2 (1.0)	4.3 (2.0)	4.3 (2.0)	8.8 (4.0)
Net Wt. (With Ball Valves)	3.4 (1.5)	3.9 (1.8)	5.3 (2.4)	9.3 (4.2)	12.2 (5.5)	23.3 (10.6)
Shipping Wt. (Less Ball Valves)	3.2 (1.4)	3.2 (1.4)	3 (1.3)	5.6 (2.5)	5.8 (2.6)	10.3 (4.7)
Shipping Wt. (With Ball Valves)	4.4 (2.0)	4.9 (2.2)	6.3 (2.9)	10.5 (4.8)	13.7 (6.2)	24.8 (11.2)

SVB-4W Series



Sizes 1/4", 3/8", 1/2"

MATERIALS

Body	Noryl®
Springs	Stainless Steel
Seat Discs	Silicone Rubber
Valve Canopy	ABS Plastic
Float	Acetal
Fasteners	Stainless Steel
Ball Valve Handles	Stainless Steel

Contact local water authorities for installation/service requirements.

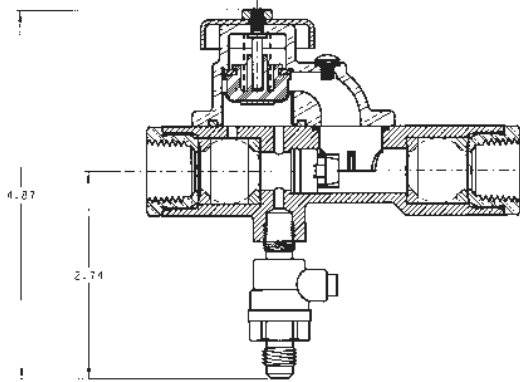
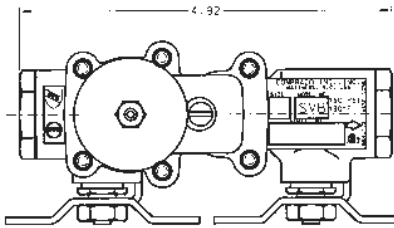
FEATURES

- Corrosion Resistant
- In-Line Flow
- Integral Shut-Off Valves w/Stainless Steel Handles and Nuts
- Designed For Easy Maintenance
- Low Head Loss
- Economical
- Maximum Working Pressure 150 PSIG
- Operating Temperature Range 33°F-180°F
- ASSE 1056

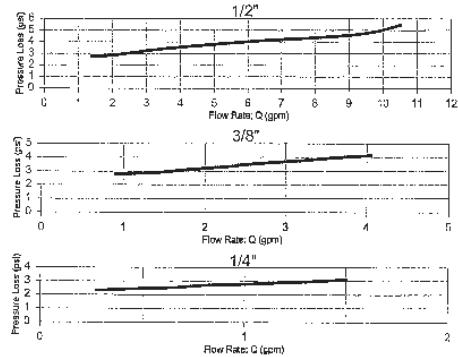
ORDERING CODE - **4W - 50X - 02**

SIZE

- 1 - 1/4"
- 2 - 3/8"
- 3 - 1/2"



Flow Curves : (*) Rated flow as determined by USC's FCC&HR and ASSE design performance standards.



Dimensions - in.(mm) – Weights - lbs.(kg)

Model No.	SVB4W14	SVB4W38	SVB4W12
Ordering No.	4W-501-02	4W-502-02	4W-503-02
Size	1/4" (6)	3/8" (10)	1/2" (15)
Test Cock	1/4" Flare	1/4" Flare	1/4" Flare
Net Wt.	1.16 (0.5)	1.16 (0.5)	1.16 (0.5)
Shipping Wt.	1.26 (0.6)	1.26 (0.6)	1.26 (0.6)