

# Vacuum Breakers for Heating Systems and More!



## Barnes & Jones Vacuum Breakers

For use on closed vessels and piping systems to control induced vacuum within safe limits. Barnes & Jones Vacuum Breakers

are simple, reliable devices that provide a positive means to automatically relieve or "break" an unwanted vacuum condition. The hex design provides for long service life and ease of installation. Bubble tight sealing is assured due to the soft silicon O-ring and spring pressure against the valve.

**Applications** ■ Air/Heat Coils for Space Heating ■ Process Air Heater ■ Shell & Tube Heat Exchanger ■ Make-Up Air Coils ■ Textile Dry Cans ■ Steam Boilers ■ Storage Heaters ■ Jacketed Kettles ■ Steam Main Zoning ■ One-Pipe Steam Non-Electric Thermostatic Valves and more!  
■ May be installed horizontally, vertically or upside down.

Model No.	Pipe Size	Vacuum to Open in PSI	Order No.
VB3901	1/8"	0.30	<b>BD2108</b>
VB3902	1/4"		<b>BD2107</b>
VB3856	1/2"	0.77	<b>BD2105</b>
VB3875	3/4"		<b>BD2106</b>

## Durabla Heavy-Duty Vacuum Breaker and Check Valve

Durabla all stainless steel check and vacuum breaker valves are "made complete" with the reducing coupling.

*Order both the Basic Valve and the corresponding Black Malleable Iron Reducing Coupling. Screw the reducing coupling onto the valve to create the complete unit.*



Reducing Coupling



Basic Valve				Reducing Coupling	
Model No.	Pipe Size	Vacuum to Open PSI	Order No.	Pipe Size	Order No.
BSS	1/4"	.60	<b>DP1005</b>	1/4" x 1"	<b>PM1285</b>
	3/8"	.60	<b>DP1010</b>	3/8" x 1"	<b>PM1290</b>
	1/2"	.60	<b>DP1015</b>	1/2" x 1"	<b>PM1295</b>
	3/4"	.45	<b>DP1020</b>	3/4" x 1 1/2"	<b>PM1325</b>
	1"	.38	<b>DP1025</b>	1" x 2"	<b>PM1350</b>
	1 1/4"	.20	<b>DP1030</b>	1 1/4" x 2 1/2"	<b>PM1364</b>
	1 1/2"	.14	<b>DP1035</b>	1 1/2" x 3"	<b>PM1370</b>
	2"	.15	<b>DP1040</b>	2" x 4"	<b>PM1385</b>

## Hoffman Vacuum Breaker

Hoffman Specialty. Prevents vacuum from occurring in steam heating equipment and piping. Adjustable from 1/4" - 20" vacuum. Factory set at 2" vacuum.

- 3/4" NPT straight shank ■ 3" height
- Maximum operating temperature 366°F
- Maximum operating pressure 150 psig

### Applications

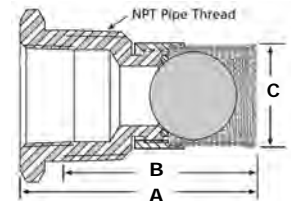
- Air/Heat Coils for Space Heating ■ Process Air Heater ■ Shell & Tube Heat Exchanger
- Make-Up Air Coils ■ Steam Boilers ■ Storage Heaters
- Jacketed Kettles ■ Steam Main Zoning ■ and more!
- Install horizontally, upright or upside down.



Model No.	Pipe Size	Vacuum to Open in Hg	Order No.
62	3/4"	From 1/4" to 20" vacuum	<b>HK1045</b>

## Johnson Vacuum Breaker and Backflow Preventer with Screen

Johnson vacuum breakers with protective screens give positive closing with a low breakaway point. Provides protection against both vacuum conditions and backflow of liquid.



- All stainless steel with brass pipe size collar.
- Rated to 300 psig; temp. to 365° F.
- Easily installed into pipe fittings or tank openings.

*Can be installed upright, horizontally or upside down.*

*Provides protection from Vacuum and Backflow!*

Description	A	B	C	Vacuum to Open, PSI	Order No.
3/8" pipe size	1 1/2"	1 1/8"	9/16"	0.32	<b>JO1005</b>
1/2" pipe size	1 3/4"	1 3/8"	11/16"	0.78	<b>JO1010</b>
3/4" pipe size	2 1/8"	1 5/8"	13/16"	1.10	<b>JO1015</b>

## Spirax Sarco Vacuum Breaker

The Brass body **VB14** has a maximum operating pressure of 210 psig; max. temp. to 500° F.

The Stainless Steel body **VB21** has a maximum operating pressure of 304 psig; max. temp. to 752° F.

The drain connection on both models are 1/8" pipe; the system connection is 1/2" pipe.



Brass or Stainless Steel

Model No.	System Connection	Material	Height	Order No.
VB14	1/2" NPT	Brass	2.2"	<b>SG1300</b>
VB21	1/2" NPT	Stainless Steel	2.0"	<b>SG1305</b>

# Backflow Prevention Valves and Vacuum Breakers

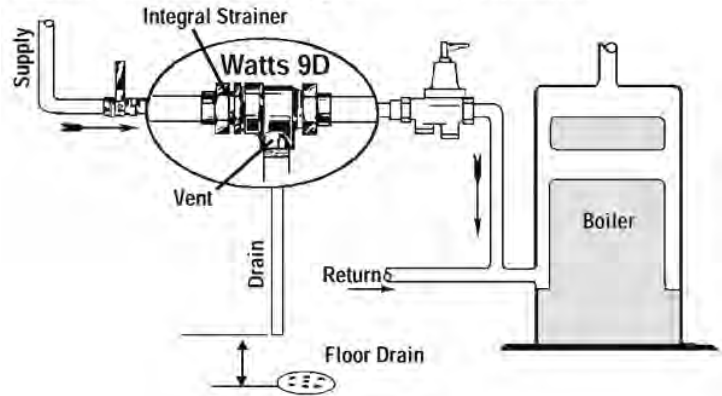
## Watts 9D Backflow Preventers with Atmospheric Vent for Boilers

Used on boilers to prevent backflow of contaminated boiler water and meet local boiler code requirements.

- These **Watts 9D** Backflow Preventers provide positive protection against both back pressure and back siphonage in small supply lines to boilers.
- All bronze construction with stainless steel internal parts.
- Unit measures 5" end-to-end.
- **REPAIR KITS** include the wearable parts of the valve.



### Model 9D Heating System Installation



Model No.	Pipe Size	Description	Complete Valve Order No.	Repair Kit Order No.
9D	1/2"	Backflow Preventer with Vent	WC1025	WD1030
	3/4"	Backflow Preventer with Vent	WC1030	WD1030

- Installed either vertically or horizontally.
- For the best system performance, install on the fresh water feed line before any pressure regulators.



2 3/8" overall length

## Watts N9 Dual Check Vacuum Breaker

Series N9 Dual Check Vacuum Breakers prevent the reverse flow of polluted water from entering into the potable water supply. It consists of a brass body construction with an atmospheric vent, and NPT female inlet and outlet connections. Designed for non-health hazard, continuous pressure applications. 2 3/8" overall length.

- Maximum Working Pressure: 125psi.

Model No.	Pipe Size	Description	Order No.
N9	1/4"	Watts N9 Dual Check Vacuum Breaker Assembly	WC1015
	3/8"		WC1020



4 3/8" overall length

## Watts 7 Dual Check Backflow Preventer

Series 7 Dual Check Valves prevent the reverse flow of polluted water from entering into the drinking water supply at the service entrance or at individual outlets. Bronze body construction, with two check valves, and stainless steel springs. Designed for non-health hazard residential water system containment, continuous pressure applications. Installed immediately downstream of the residential water meter, in a vertical or horizontal position. 4 3/8" overall length.

- Minimum Working Pressure: 10psi,
- Maximum Working Pressure: 150psi.

Model No.	Pipe Size	Description	Order No.
7	1"	No. 7 Dual Check Backflow	WC1040

## Watts N36 Vacuum Breaker

N36 Water Service Vacuum Relief Valves used in water heater/tank applications to automatically allow air to enter into the piping system to prevent vacuum conditions that could siphon the water from the system. Brass body construction. Suitable for low pressure steam and water service. Ideal for use in domestic water heaters and supply tanks, table top heaters, jacketed steam kettles, unit heaters, low pressure steam systems, and steam coil heaters. Max. Working Pressure: 200psi, Max. Steam Pressure: 15psi.



Model	Size	Description	Order No.
N36	1/2"	N36 Vacuum Breaker	WC1445
	3/4"		WC1450

## Watts NF8 Vacuum Breaker for Hoses and Hydrants

NF8 Hose Connection Vacuum Breakers designed for wall hydrants, & service hoses. Prevents the reverse flow of polluted water from entering into the potable water supply. Brass body construction, stainless steel working parts, a rubber diaphragm and disc, and a draining stem. Permits manual draining for freezing conditions. Maximum Pressure: 125psi.



Model No.	Pipe Size	Description	Order No.
NF8	3/4"	Vacuum Breaker	WC1115