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Backflow Preventers

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Material Specifications	J 1.1

Reduced Pressure Principle Backflow Preventer

AKA

General:

Reduced pressure principle backflow preventer approved by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research or conforming to ANSI/AWWA C511 or ASSE Standard #1013 and the latest revisions thereto.

Design:

Mechanical, independently operating, hydraulically dependent relief valve located between two independently operating internally loaded check valves that are located between two tightly closed resilient-seated shutoff valves with four properly placed resilient seated test cocks.

Connections:

Flange x Flange

Size/Details	OUC Item ID	Manufacturer	Catalog Number
2”	062-09107	Watts 2”	009
4”	Non-Stock	Cla-Val	RP1 w/CDHS20
6”	Non-Stock	Febco	825
8”	Non-Stock	Hersey	6CM
10”	Non-Stock	Watts	909
		Ames	4000SS

Revision Date:

8/20/07 (RNK)
5/02/03 (RNK)
4/20/00 (RNK)
1/8/99 (DSW)

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Material Specifications
Water Business Unit
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Material Specifications J 1.2

Double Check Valve Assembly

AKA DC, DCVA, Backflow Preventer

General:

Double check valve assembly approved by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research or conforming to ANSI/AWWA C510 or ASSE Standard #1015 and the latest revisions thereto.

Design:

Two internally loaded, independently operating check valves located between two tightly closed resilient-seated shutoff valves with four properly placed resilient seated test cocks.

Connections:

Flange x flange

Size/Details	OUC Item ID	Manufacturer	Catalog Number
4”	Non-Stock	Cla-Val	D
6”	Non-Stock	Febco	805Y
8”	Non-Stock	Hersey	#2
10”	Non-Stock	Ames	2000SS

Revision Date: 5/02/03 (RNK)
4/20/00 (RNK)
1/8/99 (DSW)

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Material Specifications J 1.4

Double Detector Check Valve Assembly

AKA DDC

General:

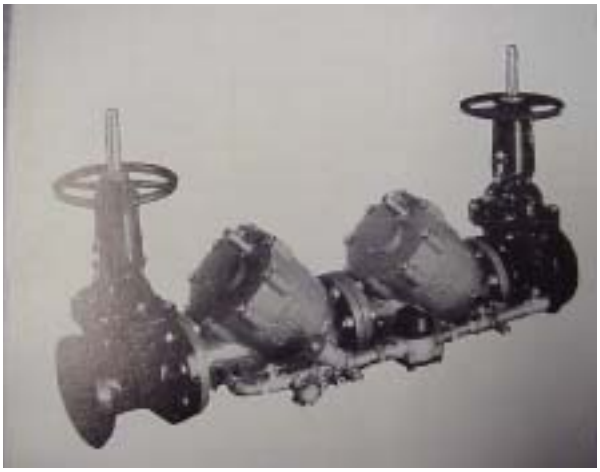
A mainline double check valve assembly with a metered double check valve assembly bypass, both devices being approved by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research or conforming to ANSI/AWWA C510 or ASSE Standard #1015 and the latest revisions thereto.

Design:

The assembly will be configured in such a fashion as to protect against any backflow conditions as well as to register any leaks or unauthorized water use.

Connections:

Flange x Flange



Size/Details	OUC Item ID	Manufacturer	Catalog Number
4”	Non-stock	Febco	806 DDC
6”	Non-stock	Hersey	DDC II
8”	Non-stock	Ames	3000SS
10”	Non-stock		

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4/20/00 (RNK)
1/11/99 (DSW)

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Material Specifications	J 1.5

Backflow Preventer – 1”

AKA Top Access Double Check Valve

General:

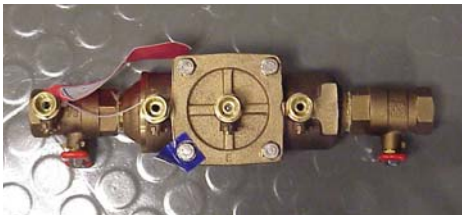
Top entry replaceable seats and seat discs. Top entry cover(s) for access ease. Two full port resilient seated ball valves for shot-off valves. Stainless steel ball valve handles.

Design:

Two internally loaded, independently operating check valves located between two tightly closed resilient-seated shutoff valves with four properly placed resilient seated test cocks.

Test Ports:

Test cocks are designed at an inclined angle or straight upward for top testing only. Male coupling with protective cap.



Size/Details	OUC Item ID	Manufacturer	Catalog Number
1”	062-09101	Watts	007
		Wilkins	950XLT
		Danfoss (Flomatic)	D9101ESS
		AMES	2000B
		Combraco/Apollo	40105TC2

Revision Date: 8/20/07 (RNK)
5/13/04 (RNK)

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Material Specifications	J 1.6

Backflow Preventer Repair Kit – ¾” & 1”

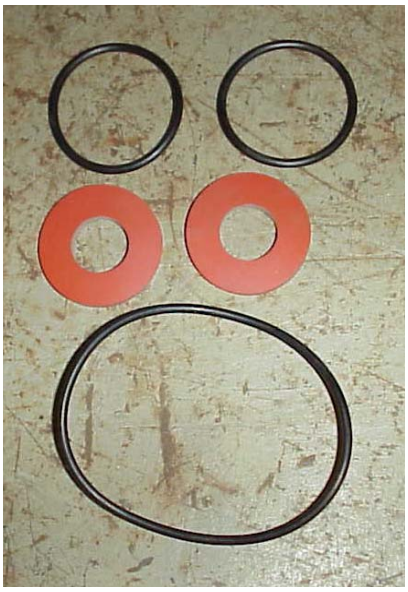
AKA

General:

Repair kits may vary by manufacturers design. Must include a minimum of gaskets and/or o-rings for repair.

Design:

Watts – M1 – 1” & ¾” same kit
Watts - M3 - 1” & ¾” same kit
Watts – 709 – ¾”
Wilkins – 950 – 1” & ¾” same kit



Size/Details	OUC Item ID
1” & ¾”	062-09103
	062-09104
	062-09105
	062-09106

Manufacturer	Catalog Number
Watts	
062-09103	M1-887042-1”& ¾”
062-09104	M3-888552-1” & ¾”
062-09105	709-1”-889064
Wilkins	
062-09106	¾”-889065

Revision Date: 4/04/07 (RNK)

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Material Specifications
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Material Specifications J 2.2

Atmospheric Vacuum Breaker

AKA AVB, Backflow Preventer

General:

Atmospheric vacuum breaker approved by the University of Southern California Foundation for Cross-Connection Control and Hydraulic Research or conforming to ASSE Standard #1001 and the latest revisions thereto.

Design:

A pipe applied gravity operated automatic vent valve opening to atmosphere for the purpose of stopping back siphonage.

Connections:

Female Iron Pipe Thread x Female Iron Pipe Thread.

Size/Details	OUC Item ID	Manufacturer	Catalog Number
¾”	Non-stock	Febco	710
1”	Non-stock	Rainbird	AVB Series
1¼”	Non-stock	Watts	288A
1½”	Non-stock	Ames	AVB
2”	Non-stock		

Revision Date: 5/02/03 (RNK)
4/20/00 (RNK)
1/11/99 (DSW)

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Material Specifications
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Material Specifications J 2.3

Hosebibb Vacuum Breaker

AKA HBVB, Backflow Preventer

General:

Hosebibb vacuum breaker conforming to ASSE Standard #1011 and the latest revisions thereto.

Design:

A device that will attach to hose threaded outlets, consisting of a check valve member force loaded, or biased, to a closed position, and an atmospheric vent valve, or means, force loaded, or biased, to an open position when the device is not under pressure.

Conditions:

Inlet: Female Hose Thread.
Outlet: Male Hose Thread.

Size/Details	OUC Item ID	Manufacturer	Catalog Number
¾”	Non-stock	Febco	**730**
		Rainbird	HVB-8A
		Watts	8A

Revision Date: 4/20/00 (RNK)
1/13/99 (DSW)

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