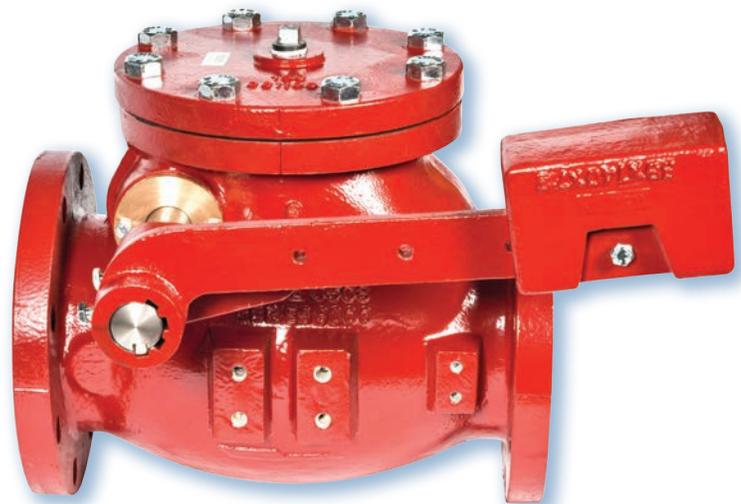
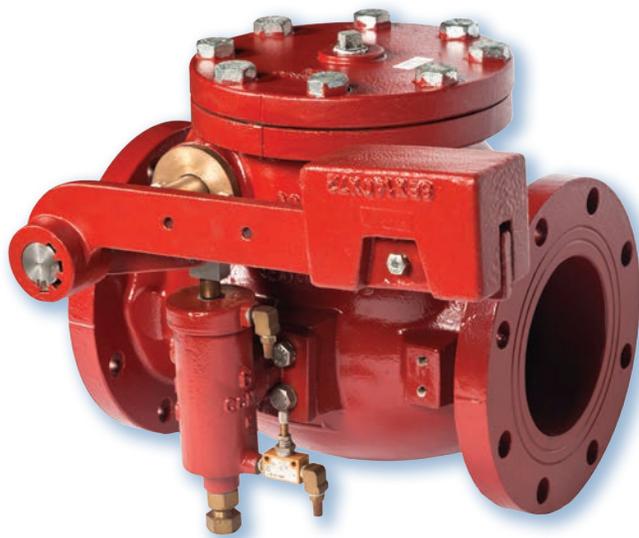


MILLIKEN®



CCNE CHECK VALVES

401 S. Highland Avenue
Aurora, IL 60506
phone: 877-655-6858
fax: 630-844-4160
www.millikenvalve.com

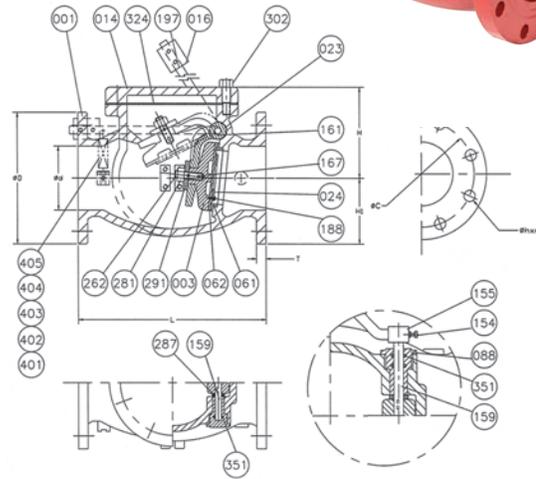


CCNE Check Valve

Model 8001 Lever & Weight or Spring.....	1
Model 9001 Lever & Weight or Spring.....	2
Model 9001 Air Cushion Lever & Weight or Spring.....	3-4
Model 9001 Oil Decelerator Lever & Weight or Spring.....	5-6
Model 9001 Three Stage Oil Cushion Lever & Weight or Spring.....	7-8
Model 9001-COH Air or Oil Cushion SS Internals, Lever & Weight or Spring.....	9-10
Model 8501 Air Cushion Lever & Weight or Spring.....	11-12

CCNE Model 8001 AWWA Swing Check Valve Outside Lever and Weight or Spring

Model 8001 swing check valves are of self-contained, free-swinging disc style with outside lever and weight or outside lever and spring. Valves conform to all standards set forth in AWWA C508, latest edition. Suitable for use in wastewater, water, sewage, oil and gas applications. Valves are produced with cast iron body, bronze or stainless steel seat rings, Buna-N or EPDM disc inserts, and hinge pins of corrosion resistant stainless steel. Internal and external epoxy coating conforming to AWWA C550 is a standard. Valves are designed for horizontal or vertical installations and for uninterrupted continuous service.



Features/Specs

- Full waterway
- Stainless steel hinge pin
- Flanges conform to ANSI B16.1 Class 125
- Lever and weight may be installed on either side
- Valves may be installed in vertical line with flow up
- Disc seat standard with with Buna-N insert for bubble tight shut off
- Body and disc seat rings are field replaceable
- Meets AWWA C508 standards
- Low zinc bronze or stainless steel seat rings
- ANSI B16.1: Cast iron pipe flanges and flanged fittings Class 125
- AWWA C508: Swing check valves for waterworks service, 2" through 24"
- 8 mils NSF 61 epoxy in and out

Sizes: 2" - 72"

Styles: Bronze to Bronze, Bronze to Buna-N, Stainless Steel to Buna-N

Uses: Water, Sludge, Sewer Service

Test Pressures:	Size	Seat*	Shell
	2" - 12"	200psi	400psi
	14" - 72"	150psi	300psi

*rated working pressure

Size Od	ANSI B16.1 CL.125							
Inches	L	OD	OC	OH	n	T	H	H1
2	8	6	4-3/4	3/4	4	5/8	4-15/16	3
2-1/2	8-1/2	7	5-1/2	3/4	4	11/16	5-11/16	3-1/2
3	9-1/2	7-1/2	6	3/4	4	3/4	6-1/16	3-3/4
4	11-1/2	9	7-1/2	3/4	8	15/16	6-7/8	4-1/2
6	14	11	9-1/2	7/8	8	1	8-1/2	5-1/2
8	19-1/2	13-1/2	11-3/4	7/8	8	1-1/8	9-15/16	6-3/4
10	24-1/2	16	14-1/4	1	12	1-3/16	11-3/16	8
12	27-1/2	19	17	1	12	1-1/4	13-9/16	9-1/2
14	31	21	18-3/4	1-1/8	12	1-3/8	19-5/16	12-1/16
16	36	23-1/2	21-1/4	1-1/8	16	1-7/16	21-1/2	13-1/4
18	40	25	22-3/4	1-1/4	16	1-9/16	25-1/8	12-1/2
20	40	27-1/2	25	1-1/4	20	1-11/16	27	13-3/4
24	48	32	29-1/2	1-3/8	20	1-7/8	31-5/8	16
30	52-1/2	38-3/4	36	1-3/8	28	2-1/8	36-3/8	19-3/8
36	60-1/2	46	42-3/4	1-5/8	32	2-3/8	40	23

Dimensions for larger sizes available upon request.

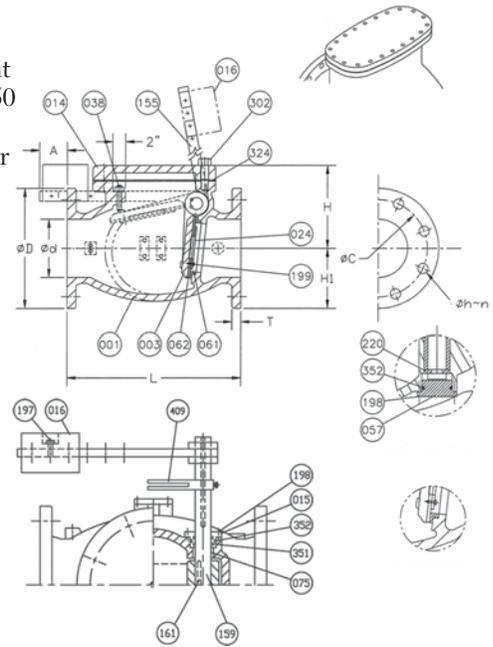
NO.	Parts	Material	ASTM Designation
405	SPRING	STAINLESS STEEL	A276 GRADE 304
404	BOLT	STAINLESS STEEL	A276 GRADE 304
403	STRAIGHT BOLT	STAINLESS STEEL	A276 GRADE 304
402	BRACKET	STAINLESS STEEL*	A276 GRADE 304
401	NUT	STAINLESS STEEL	A276 GRADE 304
351	O-RING	RUBBER (BUNA N)	D2000 BK 707
324	COVER GASKET	RUBBER (BUNA N)	D2000 BK 807
302	COVER BOLT	ZINC COATED STEEL	A307 GRADE B
291	WASHER	BRASS	B21
287	SPACER	BRASS	B21
281	DISC NUT	BRASS	B21
262	DISC STUD	BRASS	B21
197	WEIGHT BOLT	ZINC COATED STEEL	A307 GRADE B
188	DISC SEAT BOLT	STAINLESS STEEL	A276 GRADE 304
167	ROLL PIN	STAINLESS STEEL	A276 GRADE 304
161	KEY	STAINLESS STEEL	A276 GRADE 304
159	HINGE PIN	STAINLESS STEEL	A276 GRADE 304
155	WEIGHT ARM	DUCTILE IRON	A536 GRADE 65-45-12
154	BOLT W/NUT	ZINC COATED STEEL	A307 GRADE B
088	SEAT NUT	BRASS	B21
062	DISC SEAT RING	RUBBER (BUNA N)	D2000 BK 807
061	BODY SEAT RING	BRONZE	B62
024	SEAT HOLDER	2"-6" CAST IRON	A126 CLASS B
024	SEAT HOLDER	8"+ DUCTILE IRON	A536 GR 65-45-12
023	DISC ARM	DUCTILE IRON	A536 GR 65-45-12
016	WEIGHT	CAST IRON	A126 CLASS B
014	COVER	CAST IRON	A126 CLASS B
003	DISC	CAST IRON	A126 CLASS B
001	BODY	CAST IRON	A126 CLASS B

*Chrome plated steel brackets supplied on larger size valves.

**For reference ONLY. Contact factory for detailed sales drawings.

CCNE Model 9001 AWWA Swing Check Valve Outside Lever and Weight or Spring

Model 9001 swing check valves are self-contained, free-swinging disc style with outside lever and weight or outside lever and spring. Valves conform to all standards set forth in AWWA C508, latest edition. These valves feature enlarged hinge pins and upgraded materials of construction set forth for air or oil cushion valves. Suitable for use in wastewater, water, sewage, oil and gas applications. Valves are produced in cast iron body, bronze or stainless steel seat rings, Buna-N or EPDM disc inserts, and hinge pins of corrosion resistant stainless steel. Internal and external epoxy coating conforming to AWWA C550 is a standard. Valves are designed for horizontal or vertical installations and for uninterrupted continuous service. Valves are field convertible to bronze air cushion or oil cushion systems.



Features/Specs

- Clear waterway
- Enlarged stainless steel hinge pin
- Flanges conform to ANSI B16.1 Class 125
- Lever and weight may be installed on either side
- Valve may be installed in vertical line with flow up
- Disc seat standard with Buna-N insert for bubble tight shut off
- Body and disc seat rings are field replaceable
- Meets AWWA C508 standards
- Low zinc bronze or stainless steel seat rings
- Field convertible to air or oil systems
- Valves available in ductile iron (class 125/class 250)
- ANSI B16.1: Cast iron pipe flanges and flanges fittings Class 125
- AWWA C508: Swing check valves for waterworks service, 2" through 24"
- 8 mils NSF 61 epoxy in and out

Sizes: 3" - 72"

Styles: Bronze to Bronze, Bronze to Buna-N, Stainless Steel to Buna-N

Uses: Water, Sludge, Sewer Service

Test Pressures:	Size	Seat*	Shell
	3" - 12"	200psi	400psi
	14" - 72"	150psi	300psi

*rated working pressure

Size Od	ANSI B16.1 CL.125							
Inches	L	OD	OC	OH	n	T	H	H1
3	11	7-1/2	6	3/4	4	3/4	6-3/8	3-3/4
4	13	9	7-1/2	3/4	8	15/16	7-3/8	4-1/2
6	16	11	9-1/2	7/8	8	1	9-3/16	5-1/2
8	19-1/2	13-1/2	11-3/4	7/8	8	1-1/8	10-7/8	6-3/4
10	22	16	14-1/4	1	12	1-3/16	13-5/16	8
12	26	19	17	1	12	1-1/4	15-9/16	9-1/2
14	30	21	18-3/4	1-1/8	12	1-3/8	21-1/16	12-1/16
16	30-1/2	23-1/2	21-1/4	1-1/8	16	1-7/16	24	13-5/16
18	33-1/2	25	22-3/4	1-1/4	16	1-9/16	27-9/16	14-5/8
20	40	27-1/2	25	1-1/4	20	1-11/16	31-5/16	15-3/8
24	46	32	29-1/2	1-3/8	20	1-7/8	35-1/4	17-7/8
30	60	38-3/4	36	1-3/8	28	2-1/8	36	23-1/16
36	63	46	42-3/4	1-5/8	32	2-3/8	41-15/16	27-11/16
42	70	53	49-1/2	1-5/8	36	2-5/8	46-3/4	32-1/8
48	76	59-1/2	56	1-5/8	44	2-3/4	53-1/8	35-1/2

Dimensions for larger sizes available upon request.

NO.	Parts	Material	ASTM Designation
409	TEAR DROP	DUCTILE IRON	A536 GR.65-45-12
352	O-RING C	RUBBER (BUNA N)	D2000 BK 707
351	O-RING B	RUBBER (BUNA N)	D2000 BK 707
324	COVER GASKET	RUBBER (BUNA N)	D2000 BK 807
302	COVER BOLT	ZINC COATED STEEL	A307 GRADE B
283	ARM BOLT	ZINC COATED STEEL	A307 GRADE B
220	SNAP RING	STAINLESS STEEL	A276 GRADE 304
199	SEAT HOLDER BOLT	STAINLESS STEEL	A276 GRADE 304
198	END PLATE BOLT	ZINC COATED STEEL	A307 GRADE B
197	WEIGHT BOLT	ZINC COATED STEEL	A307 GRADE B
161	KEY	STAINLESS STEEL	A276 GRADE 304
159	HINGE PIN	STAINLESS STEEL	A276 GRADE 304
155	WEIGHT ARM	DUCTILE IRON	A536 GR.65-45-12
075	BUSHING	BRONZE	B62
062	DISC SEAT RING	RUBBER (BUNA N)	D2000 BK 807
061	BODY SEAT RING	BRONZE	B62
057	END PLATE B	DUCTILE IRON	A536 GR.65-45-12
038	STOPPER	STAINLESS STEEL	A276 GRADE 304
024	SEAT HOLDER	3"-6" CAST IRON	A126 CLASS B
024	SEAT HOLDER	8"+ DUCTILE IRON	A536 GR.65-45-12
016	WEIGHT	CAST IRON	A126 CLASS B
015	END PLATE A	BRONZE	B62
014	COVER	CAST IRON	A126 CLASS B
003	DISC	DUCTILE IRON	A536 GR.65-45-12
001	BODY	CAST IRON	A126 CLASS B

* For reference ONLY. Contact factory for detailed sales drawings.

CCNE Model 9001 AWWA Swing Check Valve Air Cushion with Outside Lever and Weight or Spring

Features:

- Clear waterway
- Enlarged stainless steel hinge pin
- Flanges conform to ANSI B16.1 Class 125
- Lever and weight may be installed on either side
- Valves may be installed in vertical line with flow up
- Body and disc seat rings are field replaceable
- Disc seat standard with Buna-N insert for bubble tight shut off
- Totally enclosed bronze air cushion with stainless steel hardware
- Adjustable speed control
- Meets AWWA standards of dimensional standards of large pin cushion products
- 8 mils NSF 61 epoxy in and out

Sizes: 3" - 72"

Styles: Bronze to Bronze, Bronze to Buna-N, Stainless Steel to Buna-N

Uses: Water, Sludge, Sewer Service



Specification for Model 9001 with Air Cushion

General: Swing check valves are of self-contained, free swinging disc style, allowing a clear waterway. Valve disc swings freely open and is keyed to valve hinge pin without the use of pins. Valves conform to all standards set forth in AWWA C508, Latest Edition. Valve hinge pin are Stainless Steel and conform to the industry standards set forth for cushion valves. Manufacturer should have a minimum of ten years experience supplying air cushion AWWA C508 valves.

Referenced Standards:

- ANSI B16.1: Cast Iron Pipe Flanges and Flanged Fittings Class 125
- AWWA C508: Swing Check Valves for Waterworks Service, 2" through 24" NPS

Rating:

Valves are rated for 200psi on 12" and smaller, and 150psi on 14" and larger water working pressure. Valves are available in ductile iron for high pressure applications. All testing is done in accordance with AWWA C508.

End Configuration:

Valves have integrally cast flat face flanges in accordance with ANSI B16.1 Class 125.

Materials:

- All cast iron used conforms to ASTM A126 CLB
- Disc is of ductile iron conforming to ASTM A536 GR65-45-12
- Hinge Pins conform to ASTM A276 GR304
- Seat Rings are of Low Zinc Bronze conforming to ASTM B62 or of Stainless Steel conforming to ASTM A276 GR316

Coating: Internal and external coatings are two-component epoxy conforming to AWWA C550.

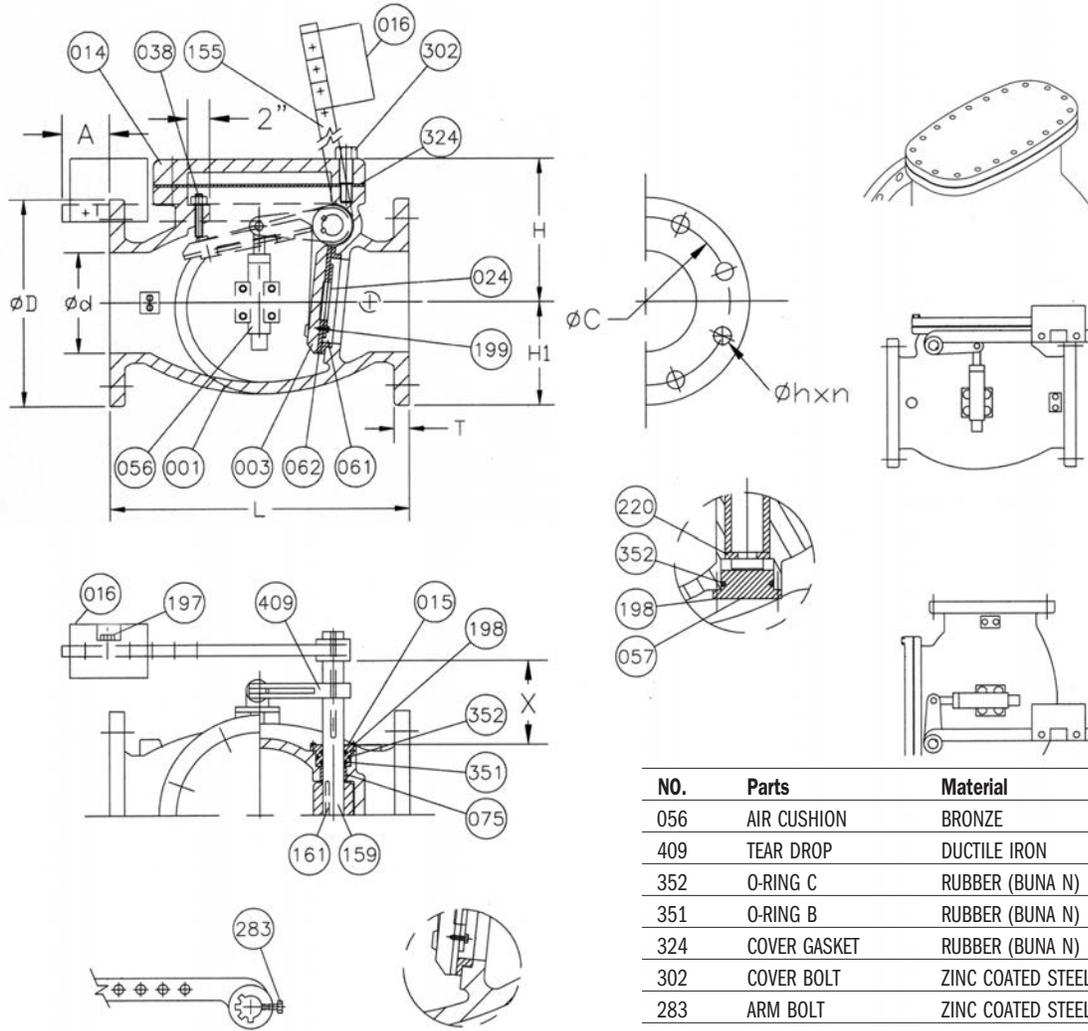
Design: All valves meet the standards of AWWA C508. All valves utilize a single disc mounted to a clevis hinge which prevents the disc from tipping. The valve disc swings open once the pump starts and allows for full flow. When closed the valve offers a tight shut-off. Valve body and cover are of Cast Iron, valve hinge is of Ductile Iron. Disc seating surface is either Bronze, Stainless Steel or of Buna-N depending on application. Valve seat rings are of Bronze or Stainless Steel.

The valve body has a bolted cover design and flanges are integral to body casting -not wafer style. Valve body and disc are designed in such a way as to minimize turbulence. Spring and cushion systems are externally mounted on the side of the body and do not come into contact with main line media.

Cushion systems are one-piece all bronze construction with integral pad mounted directly to the body with stainless steel fasteners. Air cushion shall consist of bronze and stainless steel components, be adjustable by means of a flow control valve and piston sleeve. Air cushion shall be totally enclosed with a metal end cap with an o-ring.

Installation: All valves are built for horizontal installation. However, all valves operate equally well in vertical installations. Prior to valve installation manufacturer should be notified of vertical mounting position so lever arm and weight can be properly positioned on valve.

CCNE Model 9001 AWWA Swing Check Valve Air Cushion with Outside Lever and Weight or Spring



NO.	Parts	Material	ASTM Designation
056	AIR CUSHION	BRONZE	B62
409	TEAR DROP	DUCTILE IRON	A536 GR 65-45-12
352	O-RING C	RUBBER (BUNA N)	D2000 BK 707
351	O-RING B	RUBBER (BUNA N)	D2000 BK 707
324	COVER GASKET	RUBBER (BUNA N)	D2000 BK 807
302	COVER BOLT	ZINC COATED STEEL	A307 GRADE B
283	ARM BOLT	ZINC COATED STEEL	A307 GRADE B
220	SNAP RING	STAINLESS STEEL	A276 GRADE 304
199	SEAT HOLDER BOLT	STAINLESS STEEL	A276 GRADE 304
198	END PLATE BOLT	ZINC COATED STEEL	A307 GRADE B
197	WEIGHT BOLT	ZINC COATED STEEL	A307 GRADE B
161	KEY	STAINLESS STEEL	A276 GRADE 304
159	HINGE PIN	STAINLESS STEEL	A276 GRADE 304
155	WEIGHT ARM	DUCTILE IRON	A536 GR 65-45-12
075	BUSHING	BRONZE	B62
062	DISC SEAT RING	RUBBER (BUNA N)	D2000 BK 807
061	BODY SEAT RING	BRONZE	B62
057	END PLATE B	DUCTILE IRON	A536 GR 65-45-12
038	STOPPER	STAINLESS STEEL	A276 GRADE 304
024	SEAT HOLDER	3"-6" CAST IRON	A126 CLASS B
024	SEAT HOLDER	8"+ DUCTILE IRON	A536 GR 65-45-12
016	WEIGHT	CAST IRON	A126 CLASS B
015	END PLATE A	BRONZE	B62
014	COVER	CAST IRON	A126 CLASS B
003	DISC	DUCTILE IRON	A536 GR 65-45-12
001	BODY	CAST IRON	A126 CLASS B

Size Od	ANSI B16.1 CL.125							
Inches	L	OD	OC	OH	n	T	H	H1
3	11	7-1/2	6	3/4	4	3/4	6-3/8	3-3/4
4	13	9	7-1/2	3/4	8	15/16	7-3/8	4-1/2
6	16	11	9-1/2	7/8	8	1	9-3/16	5-1/2
8	19-1/2	13-1/2	11-3/4	7/8	8	1-1/8	10-7/8	6-3/4
10	22	16	14-1/4	1	12	1-3/16	13-5/16	8
12	26	19	17	1	12	1-1/4	15-9/16	9-1/2
14	30	21	18-3/4	1-1/8	12	1-3/8	21-1/16	12-1/16
16	30-1/2	23-1/2	21-1/4	1-1/8	16	1-7/16	24	13-5/16
18	33-1/2	25	22-3/4	1-1/4	16	1-9/16	27-9/16	14-5/8
20	40	27-1/2	25	1-1/4	20	1-11/16	31-5/16	15-3/8
24	46	32	29-1/2	1-3/8	20	1-7/8	35-1/4	17-7/8
30	60	38-3/4	36	1-3/8	28	2-1/8	36	23-1/16
36	63	46	42-3/4	1-5/8	32	2-3/8	41-15/16	27-11/16
42	70	53	49-1/2	1-5/8	36	2-5/8	46-3/4	32-1/8
48	76	59-1/2	56	1-5/8	44	2-3/4	53-1/8	35-1/2

Dimensions for larger sizes available upon request.

* For reference ONLY. Contact factory for detailed sales drawings.

CCNE Model 9001 AWWA Swing Check Valve Oil Decelerator with Outside Lever and Weight or Spring

Features:

- Clear waterway
- Enlarged stainless steel hinge pin
- Flanges conform to ANSI B16.1 Class 125
- Lever and weight may be installed on either side
- Valves may be installed in vertical line with flow up
- Body and disc seat rings are field replaceable
- Disc seat standard with Buna-N insert for bubble tight shut off
- Meets AWWA standards of dimensional standards of large pin cushion products
- 100% oil controlled system with adjustable speed control valve
- 8 mils NSF 61 epoxy in and out

Sizes: 3" - 72"

Styles: Bronze to Bronze, Bronze to Buna-N, Stainless Steel to Buna-N

Uses: Water, Sludge, Sewer Service



Specification for Model 9001 with Oil Cushion

General: Swing check valves are of self-contained, free-swinging disc style, allowing a clear waterway. Valve disc swings freely open and is keyed to valve hinge pin without the use of pins. Valves conform to all standards set forth in AWWA C508, Latest Edition. Valve hinge pins are Stainless Steel and conform to the industry standards set forth for cushion valves. Manufacturer should have a minimum of ten years experience supplying air and oil cushion AWWA C508 valves.

Referenced Standards:

- ANSI B16.1: Cast Iron Pipe Flanges and Flanged Fittings Class 125
- AWWA C508: Swing Check Valves for Waterworks Service, 2" through 24" NPS

Rating: Valves are rated for 200psi on 12" and smaller, and 150psi on 14" and larger water working pressure. Valves available in ductile iron for high pressure applications. All testing is done in accordance with AWWA C508.

End Configuration: Valves have integrally cast flat face flanges in accordance with ANSI B16.1 Class 125.

Materials:

- All cast iron used conforms to ASTM A126 CLB
- Disc is of ductile iron conforming to ASTM A536 GR65-45-12
- Hinge pins conform to ASTM A276 CR304
- Seat Rings are of Low Zinc Bronze conforming to ASTM B62 or of Stainless Steel conforming to ASTM A276 GR316

Coating: Internal and external coatings are two-component epoxy conforming to AWWA C550.

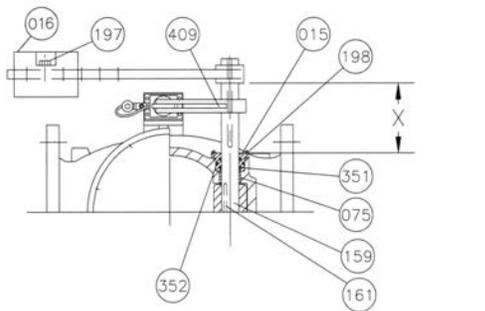
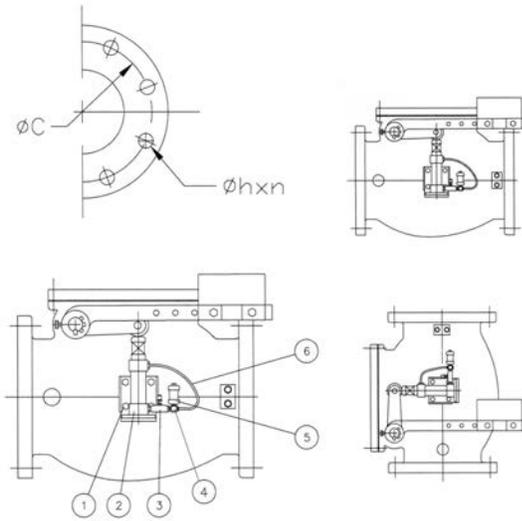
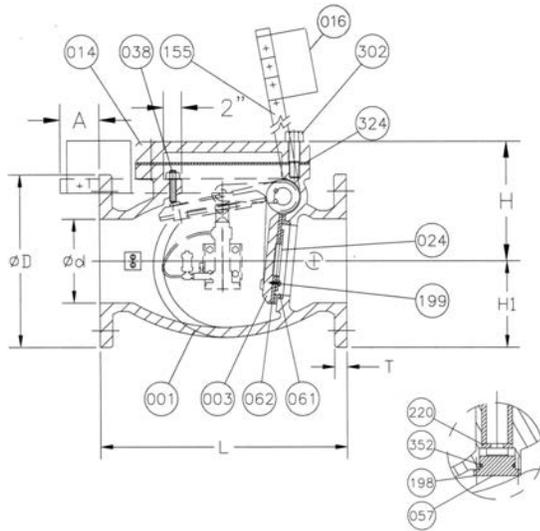
Design: All valves meet the standards of AWWA C508. All valves utilize a single disc mounted to a clevis hinge which prevents the disc from tipping. The valve disc swings open once the pump starts and allows full flow. When closed the valve offers a tight shut-off. Valve body and cover are of Cast Iron; valve hinge is of Ductile Iron. Disc seating surface is Bronze, Stainless Steel or Buna-N depending on application. Valve seat rings are of Bronze or Stainless Steel.

The valve body has a bolted cover design and flanges are integral to body casting -not wafer style. Valve body and disc are designed in such a way as to minimize turbulence. Spring and cushion systems are externally mounted on the side of the body and do not come into contact with main line media.

The hydraulic cylinder and system, mounted on the external side of the valve, shall cushion the valve as the oil travels from the cylinder to the oil reservoir. The system is totally enclosed and separate from the line media. Contamination of the hydraulic system or obstruction of line flow is prevented in this side-mounted system. The discharge head from the pump allows the valve to open raising the outside lever and weight or spring. The disc swings freely to the open position. Upon pump shut down the outside weight or spring assists the disc to close until the roller on tear drop comes in contact with the pad on the hydraulic cylinder. The cushioning actions occur as the oil flows through the system, closure control takes place by adjustment of the control valve (part number 3). The system is completely field adjustable.

Installations: All valves are built for horizontal installation. However, all valves operate equally well in vertical installations. Prior to valve installation manufacturer should be notified of vertical mounting position so lever arm and weight can be properly positioned on valve.

CCNE Model 9001 AWWA Swing Check Valve Oil Decelerator with Outside Lever and Weight or Spring



NO.	Parts	Material	ASTM Designation
6	HYDRAULIC HOSE	3000PSI	COMMERCIAL
5	RESERVOIR	PVC	GREY PVC
4	BRASS TEE	BRASS	B124 GR377
3	CONTROL VALVE	BRASS, NEEDLE CHECK	B124 GR377
2	OIL CUSHION	COMMERCIAL HYDRAULIC CYLINDER	NFPA RATED
1	MOUNTING BRACKET	STEEL	A36
409	TEAR DROP	DUCTILE IRON	A536 GR.65-45-12
352	O-RING C	RUBBER (BUNA N)	D2000 BK 707
351	O-RING B	RUBBER (BUNA N)	D2000 BK 707
324	COVER GASKET	RUBBER (BUNA N)	D2000 BK 807
302	COVER BOLT	ZINC COATED STEEL	A307 GRADE B
283	ARM BOLT	ZINC COATED STEEL	A307 GRADE B
220	SNAP RING	STAINLESS STEEL	A276 GRADE 304
199	SEAT HOLDER BOLT	STAINLESS STEEL	A276 GRADE 304
198	END PLATE BOLT	ZINC COATED STEEL	A307 GRADE B
197	WEIGHT BOLT	ZINC COATED STEEL	A307 GRADE B
161	KEY	STAINLESS STEEL	A276 GRADE 304
159	HINGE PIN	STAINLESS STEEL	A276 GRADE 304
155	WEIGHT ARM	DUCTILE IRON	A536 GR.65-45-12
075	BUSHING	BRONZE	B62
062	DISC SEAT RING	RUBBER (BUNA N)	D2000 BK 807
061	BODY SEAT RING	BRONZE	B62
057	END PLATE B	DUCTILE IRON	A536 GR.65-45-12
038	STOPPER	STAINLESS STEEL	A276 GRADE 304
024	SEAT HOLDER	3"-6" CAST IRON	A126 CLASS B
024	SEAT HOLDER	8"+ DUCTILE IRON	A536 GR 65-45-12
016	WEIGHT	CAST IRON	A126 CLASS B
015	END PLATE A	BRONZE	B62
014	COVER	CAST IRON	A126 CLASS B
003	DISC	DUCTILE IRON	A536 GR.65-45-12
001	BODY	CAST IRON	A126 CLASS B

Sizes Od		ANSI B16.1 CL.125						
Inches	L	OD	OC	OH	n	T	H	H1
3	11	7-1/2	6	3/4	4	3/4	6-3/8	3-3/4
4	13	9	7-1/2	3/4	8	15/16	7-3/8	4-1/2
6	16	11	9-1/2	7/8	8	1	9-3/16	5-1/2
8	19-1/2	13-1/2	11-3/4	7/8	8	1-1/8	10-7/8	6-3/4
10	22	16	14-1/4	1	12	1-3/16	13-5/16	8
12	26	19	17	1	12	1-1/4	15-9/16	9-1/2
14	30	21	18-3/4	1-1/8	12	1-3/8	21-1/16	12-1/16
16	30-1/2	23-1/2	21-1/4	1-1/8	16	1-7/16	24	13-5/16
18	33-1/2	25	22-3/4	1-1/4	16	1-9/16	27-9/16	14-5/8
20	40	27-1/2	25	1-1/4	20	1-11/16	31-5/16	15-3/8
24	46	32	29-1/2	1-3/8	20	1-7/8	35-1/4	17-7/8
30	60	38-3/4	36	1-3/8	28	2-1/8	36	23-1/16
36	63	46	42-3/4	1-5/8	32	2-3/8	41-15/16	27-11/16
42	70	53	49-1/2	1-5/8	36	2-5/8	46-3/4	32-1/8
48	76	59-1/2	56	1-5/8	44	2-3/4	53-1/8	35-1/2

Dimensions for larger sizes available upon request.

* For reference ONLY. Contact factory for detailed sales drawings.

CCNE Model 9001 AWWA Swing Check Valve Three Stage Oil Cushion with Outside Lever and Weight or Spring

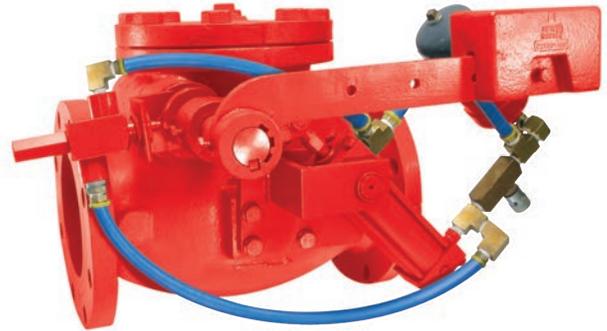
Features:

- Clear waterway
- Enlarged stainless steel hinge pin
- Flanges conform to ANSI B16.1 Class 125
- Lever and weight may be installed on either side
- Valves may be installed in vertical line with flow up
- Body and disc seat rings are field replaceable
- Disc seat standard with Buna-N insert for bubble tight shut off
- Meets AWWA standards of dimensional standards of large pin cushion products
- 100% oil controlled system with adjustable speed control valve and timing valve
- Totally enclosed oil cushion system with stainless steel hardware
- 8 mils NSF 61 epoxy in and out

Sizes: 3" - 72"

Styles: Bronze to Bronze, Bronze to Buna-N, Stainless Steel to Buna-N

Uses: Water, Sludge, Sewer Service



Specification for Model 9001 with 3-Stage Oil Cushion

General: Swing check valves are of self-contained, free-swinging disc style, allowing a clear waterway. Valve disc is keyed to valve hinge pin without the use of pins. Valves conform to all standards set forth in AWWA C508, Latest Edition. Valve hinge pins are Stainless Steel and conform to the industry standards set forth for cushion valves.

Referenced Standards:

- ANSI B16.1: Cast Iron Pipe Flanges and Flanged Fittings Class 125
- AWWA C508: Swing Check Valves for Waterworks Service, 2" through 24" NPS

Rating: Valves are rated for 200psi on 12" and smaller, and 150psi on 14" and larger water working pressure. Valves available in ductile iron for high pressure applications. All testing is done in accordance with AWWA C508.

End Configuration: Valves have integrally cast flat face flanges in accordance with ANSI B16.1 Class 125.

Materials:

- All cast iron used conforms to ASTM A126 CLB
- Disc is of ductile iron conforming to ASTM A536 GR65-45-12
- Hinge pins conform to ASTM A276 CR304
- Seat Rings are of Low Zinc Bronze conforming to ASTM B62 or of Stainless Steel conforming to ASTM A276 GR316

Coating: Internal and external coatings are two-component epoxy conforming to AWWA C550.

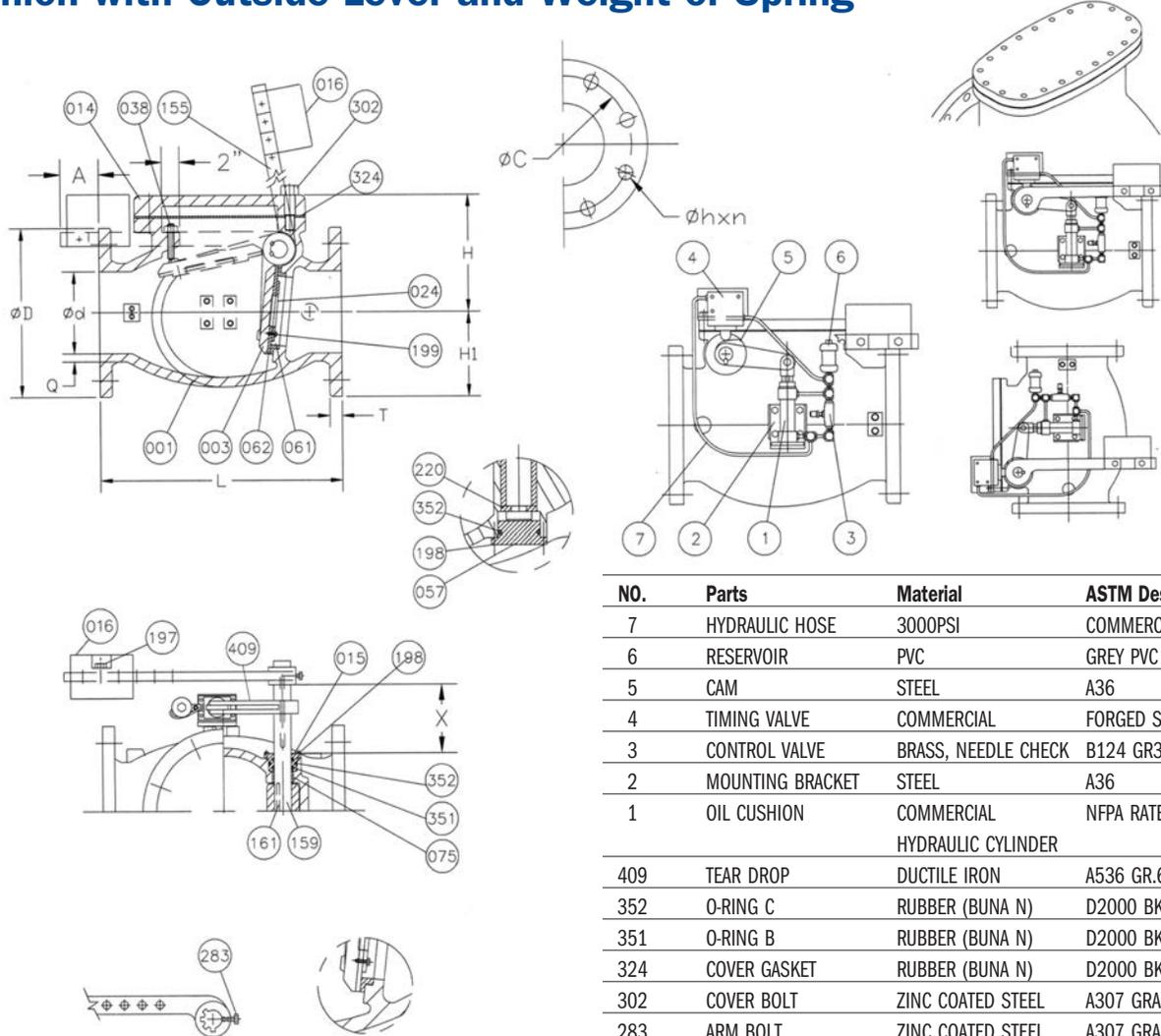
Design: All valves meet the standards of AWWA C508. All valves utilize a single disc mounted to a clevis hinge which prevents the disc from tipping. The valve disc swings open once the pump starts and allows full flow. When closed the valve offers a tight shut-off. Valve body and cover are of Cast Iron; valve hinge is of Ductile Iron. Disc seating surface is Bronze, Stainless Steel or Buna-N depending on application. Valve seat rings are or Bronze or Stainless Steel.

The valve body has a bolted cover design and flanges are integral to body casting -not wafer style. Valve body and disc are designed in such a way as to minimize turbulence. Spring and cushion systems are externally mounted on the side of the body and do not come into contact with main line media.

The three stage oil cushion system is totally enclosed, providing slow open and controlled closing to prevent surge and water hammer. Stage one shall be controlled by a timing valve, stage two by flow control valve and stage three by an internal cushion adjustment of the cylinder. Each stage is independently field adjustable in this totally enclosed system. The timing valve is plunger activated that makes contact with the cam on the hinge pin. Adjustment of the cam increases or reduces the closure speed of the swing check valve. The cushioning actions occur as the oil flows through the system.

Installation: All valves are built for horizontal installation. However, all valves operate equally well in vertical installations. Prior to valve installation manufacturer should be notified of vertical mounting position so lever arm and weight can be properly positioned on valve.

CCNE Model 9001 AWWA Swing Check Valve Three Stage Oil Cushion with Outside Lever and Weight or Spring



NO.	Parts	Material	ASTM Designation
7	HYDRAULIC HOSE	3000PSI	COMMERCIAL
6	RESERVOIR	PVC	GREY PVC
5	CAM	STEEL	A36
4	TIMING VALVE	COMMERCIAL	FORGED STEEL
3	CONTROL VALVE	BRASS, NEEDLE CHECK	B124 GR377
2	MOUNTING BRACKET	STEEL	A36
1	OIL CUSHION	COMMERCIAL HYDRAULIC CYLINDER	NFPA RATED
409	TEAR DROP	DUCTILE IRON	A536 GR.65-45-12
352	O-RING C	RUBBER (BUNA N)	D2000 BK 707
351	O-RING B	RUBBER (BUNA N)	D2000 BK 707
324	COVER GASKET	RUBBER (BUNA N)	D2000 BK 807
302	COVER BOLT	ZINC COATED STEEL	A307 GRADE B
283	ARM BOLT	ZINC COATED STEEL	A307 GRADE B
220	SNAP RING	STAINLESS STEEL	A276 GRADE 304
199	SEAT HOLDER BOLT	STAINLESS STEEL	A276 GRADE 304
198	END PLATE BOLT	ZINC COATED STEEL	A307 GRADE B
197	WEIGHT BOLT	ZINC COATED STEEL	A307 GRADE B
161	KEY	STAINLESS STEEL	A276 GRADE 304
159	HINGE PIN	STAINLESS STEEL	A276 GRADE 304
155	WEIGHT ARM	DUCTILE IRON	A536 GR.65-45-12
075	BUSHING	BRONZE	B62
062	DISC SEAT RING	RUBBER (BUNA N)	D2000 BK 807
061	BODY SEAT RING	BRONZE	B62
057	END PLATE B	DUCTILE IRON	A536 GR.65-45-12
038	STOPPER	STAINLESS STEEL	A276 GRADE 304
024	SEAT HOLDER	3"-6" CAST IRON	A126 CLASS B
024	SEAT HOLDER	8"+ DUCTILE IRON	A536 GR 65-45-12
016	WEIGHT	CAST IRON	A126 CLASS B
015	END PLATE A	BRONZE	B62
014	COVER	CAST IRON	A126 CLASS B
003	DISC	DUCTILE IRON	A536 GR.65-45-12
001	BODY	CAST IRON	A126 CLASS B

Size Od	ANSI B16.1 CL.125							
Inches	L	OD	OC	OH	n	T	H	H1
3	11	7-1/2	6	3/4	4	3/4	6-3/8	3-3/4
4	13	9	7-1/2	3/4	8	15/16	7-3/8	4-1/2
6	16	11	9-1/2	7/8	8	1	9-3/16	5-1/2
8	19-1/2	13-1/2	11-3/4	7/8	8	1-1/8	10-7/8	6-3/4
10	22	16	14-1/4	1	12	1-3/16	13-5/16	8
12	26	19	17	1	12	1-1/4	15-9/16	9-1/2
14	30	21	18-3/4	1-1/8	12	1-3/8	21-1/16	12-1/16
16	30-1/2	23-1/2	21-1/4	1-1/8	16	1-7/16	24	13-5/16
18	33-1/2	25	22-3/4	1-1/4	16	1-9/16	27-9/16	14-5/8
20	40	27-1/2	25	1-1/4	20	1-11/16	31-5/16	15-3/8
24	46	32	29-1/2	1-3/8	20	1-7/8	35-1/4	17-7/8
30	60	38-3/4	36	1-3/8	28	2-1/8	36	23-1/16
36	63	46	42-3/4	1-5/8	32	2-3/8	41-15/16	27-11/16
42	70	53	49-1/2	1-5/8	36	2-5/8	46-3/4	32-1/8
48	76	59-1/2	56	1-5/8	44	2-3/4	53-1/8	35-1/2

Dimensions for larger sizes available upon request.

* For reference ONLY. Contact factory for detailed sales drawings.

CCNE Model 9001-COH AWWA Swing Check Valve Air or Oil Cushion and Stainless Steel Internals with Outside Lever and Weight or Spring

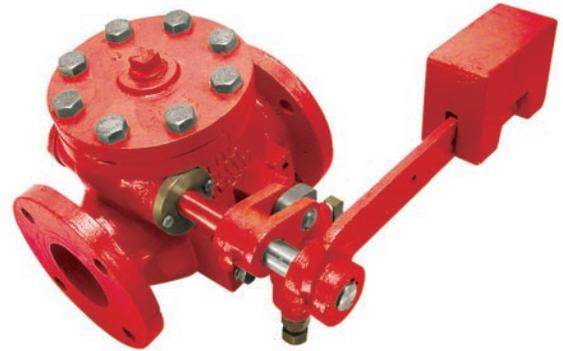
Features:

- Clear waterway
- Enlarged stainless steel hinge pin
- Flanges conform to ANSI B16.1 Class 125
- Lever and weight may be installed on either side
- Valves may be installed in vertical line with flow up
- Body and disc seat rings are field replaceable
- Disc seat standard with Buna-N insert for bubble tight shut off
- Meets AWWA standards of dimensional standards of large pin cushion products
- Adjustable speed control
- Cover fasteners are stainless steel
- 8 mils NSF 61 epoxy in and out

Sizes: 3" - 72"

Styles: Stainless Steel to Buna-N

Uses: Water, Sludge, Sewer Service



Specification for Model 9001 COH Check Valves

General: Swing check valves are of self-contained, free-swing disc style, allowing a clear waterway. Valve disc swings freely open and is keyed to valve hinge pin without the use of pins. Valves conform to all standards set forth in AWWA C508, Latest Edition. Valve hinge pins are Stainless Steel and conform to the industry standards set forth for cushion valves. Manufacturer should have a minimum of ten years experience supplying air and oil cushion AWWA C508 valves.

Referenced Standards:

- ANSI B16.1: Cast Iron Pipe Flanges and Flanged Fittings Class 125
- AWWA C508: Swing Check Valves for Waterworks Service, 2" through 24" NPS

Rating: Valves are rated for 200psi on 12" and smaller, and 150psi on 14" and larger water working pressure. Valves available in ductile iron for high pressure applications. All testing is done in accordance with AWWA C508.

End Configuration: Valves have integrally cast flat face flanges in accordance with ANSI B16.1 Class 125.

Materials:

- All cast iron used conforms to ASTM A126 CLB
- Disc is of ductile iron conforming to ASTM A536 GR65-45-12
- Hinge Pins conform to ASTM A276 GR316
- Seat Rings are of Stainless Steel conforming to ASTM A276 GR316

Coating: Internal and external coatings are two-component epoxy conforming to AWWA C550.

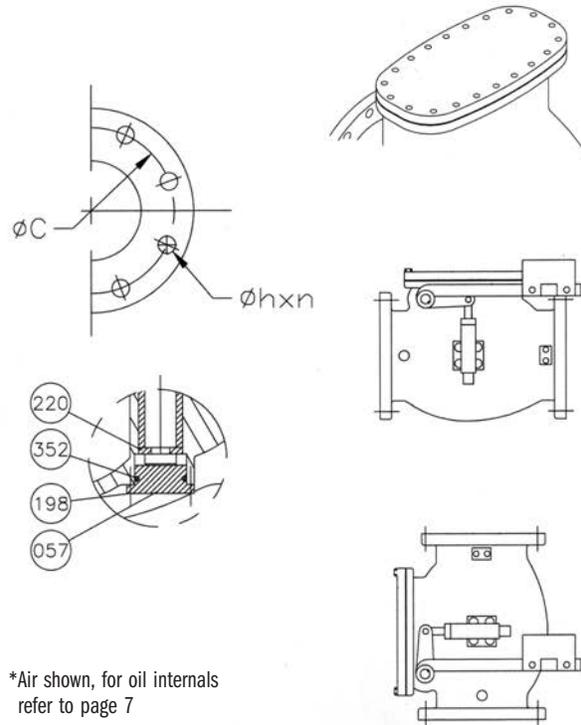
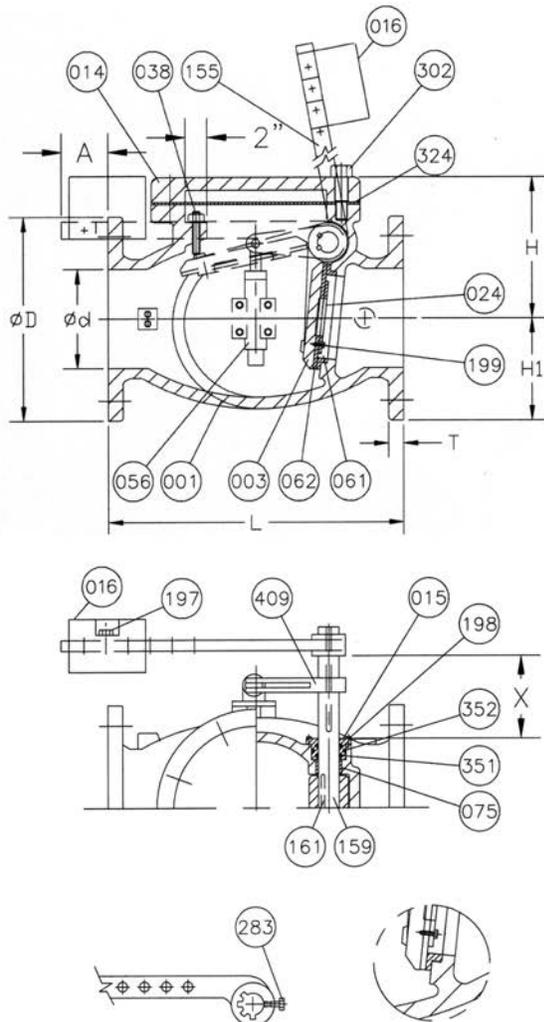
Design: All valves meet the standards of AWWA C508. All valves utilize a single disc mounted to a clevis hinge which prevents the disc from tipping. The valve disc swings open once the pump starts and allows for full flow. When closed the valve offers a tight shut-off. Valve body and cover are of Cast Iron; valve hinge is of Ductile Iron. Disc seating surface is Buna-N with seat holder of Stainless Steel. Valve seat rings are of Stainless Steel ASTM A276 GR316. Cover fasteners shall be Stainless Steel.

The valve body has a bolted cover design and flanges are integral to body casting -not wafer style. Valve body and disc are designed in such a way as to minimize turbulence. Spring and cushion systems are externally mounted on the side of the body and do not come into contact with main line media.

Air cushion systems are one piece all bronze construction with integral pad mounted directly to the body with stainless steel fasteners. Air cushion shall consist of bronze and stainless steel components, be adjustable by means of a flow control valve and piston sleeve. Air cushion shall be totally enclosed with a metal end cap with an o-ring. The oil hydraulic cylinder and system, mounted on the external side of the valve, shall cushion the valve as the oil travels from the cylinder to the oil reservoir (see page 6 for further details).

Installations: All valves are built for horizontal installation. However, all valves operate equally well in vertical installations. Prior to valve installation manufacturer should be notified of vertical mounting position so lever arm and weight can be properly positioned on valve.

CCNE Model 9001-COH AWWA Swing Check Valve Air or Oil Cushion and Stainless Steel Internals with Outside Lever and Weight or Spring



*Air shown, for oil internals refer to page 7

Size Od	ANSI B16.1 CL.125							
Inches	L	OD	OC	OH	n	T	H	H1
3	11	7-1/2	6	3/4	4	3/4	6-3/8	3-3/4
4	13	9	7-1/2	3/4	8	15/16	7-3/8	4-1/2
6	16	11	9-1/2	7/8	8	1	9-3/16	5-1/2
8	19-1/2	13-1/2	11-3/4	7/8	8	1-1/8	10-7/8	6-3/4
10	22	16	14-1/4	1	12	1-3/16	13-5/16	8
12	26	19	17	1	12	1-1/4	15-9/16	9-1/2
14	30	21	18-3/4	1-1/8	12	1-3/8	21-1/16	12-1/16
16	30-1/2	23-1/2	21-1/4	1-1/8	16	1-7/16	24	13-5/16
18	33-1/2	25	22-3/4	1-1/4	16	1-9/16	27-9/16	14-5/8
20	40	27-1/2	25	1-1/4	20	1-11/16	31-5/16	15-3/8
24	46	32	29-1/2	1-3/8	20	1-7/8	35-1/4	17-7/8
30	60	38-3/4	36	1-3/8	28	2-1/8	36	23-1/16
36	63	46	42-3/4	1-5/8	32	2-3/8	41-15/16	27-11/16
42	70	53	49-1/2	1-5/8	36	2-5/8	46-3/4	32-1/8
48	76	59-1/2	56	1-5/8	44	2-3/4	53-1/8	35-1/2

Dimensions for larger sizes available upon request.

NO.	Parts	Material	ASTM Designation
056	AIR CUSHION	BRONZE	B62
409	TEAR DROP	DUCTILE IRON	A536 GR.65-45-12
352	O-RING C	RUBBER (BUNA N)	D2000 BK 707
351	O-RING B	RUBBER (BUNA N)	D2000 BK 707
324	COVER GASKET	RUBBER (BUNA N)	D2000 BK 807
302	COVER BOLT	STAINLESS STEEL	A276 GRADE 304
283	ARM BOLT	ZINC COATED STEEL	A307 GRADE B
220	SNAP RING	STAINLESS STEEL	A276 GRADE 304
199	SEAT HOLDER BOLT	STAINLESS STEEL	A276 GRADE 304
198	END PLATE BOLT	ZINC COATED STEEL	A307 GRADE B
197	WEIGHT BOLT	ZINC COATED STEEL	A307 GRADE B
161	KEY	STAINLESS STEEL	A276 GRADE 304
159	HINGE PIN	STAINLESS STEEL	A276 GRADE 316
155	WEIGHT ARM	DUCTILE IRON	A536 GR.65-45-12
075	BUSHING	BRONZE	B62
062	DISC SEAT RING	RUBBER (BUNA N)	D2000 BK 807
061	BODY SEAT RING	STAINLESS STEEL	A276 GRADE 316
057	END PLATE B	DUCTILE IRON	A536 GR.65-45-12
038	STOPPER	STAINLESS STEEL	A276 GRADE 304
024	SEAT HOLDER	STAINLESS STEEL	A276 GRADE 304
016	WEIGHT	CAST IRON	A126 CLASS B
015	END PLATE A	BRONZE	B62
014	COVER	CAST IRON	A126 CLASS B
003	DISC	DUCTILE IRON	A536 GR.65-45-12
001	BODY	CAST IRON	A126 CLASS B

* For reference ONLY. Contact factory for detailed sales drawings.

CCNE Model 8501 Ductile Iron AWWA Swing Check Valves Air Cushion with Outside Lever and Weight or Spring

Features:

- Full waterway
- Ductile iron body, cover and disc hinge arm construction
- Stainless steel hinge pin
- Flanges conform to ANSI B16.1 Class 125 (250# flange available)
- Lever and weight may be installed on either side
- Valves may be installed in vertical line with flow up
- Disc seat standard with Buna-N insert for bubble tight shut off
- Body and disc seat rings are field replaceable
- Meets AWWA standards
- Totally enclosed bronze air cushion with stainless steel hardware
- For cushioning in low velocity applications
- Adjustable speed control
- 8 mils NSF 61 epoxy in and out

Sizes: 3" - 24"

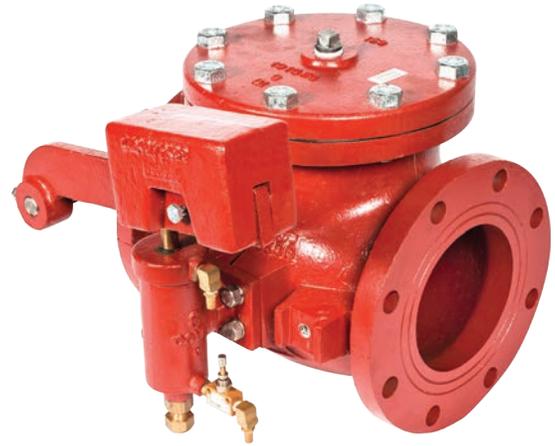
Styles: Stainless Steel to Buna-N standard

Uses: Water, Sludge, Sewer Service

Test Pressures:

Seat*	Shell
350psi	700psi

*rated working pressure



Specifications for Model 8501 Ductile Iron Check Valves:

General: Swing check valves are of self-contained, free-swinging disc style, allowing a full waterway. Valve disc swings freely open and is keyed to valve hinge pin without use of pins. Valves conform to all standards set forth in AWWA C508, Latest Edition. Valve hinge pins are Stainless Steel. Manufacturer should have minimum of 10 years experience supplying AWWA C508 valves

Referenced Standards:

- ANSI B16.1: Cast Iron Pipe Flanges and Flanged Fittings Class 125
- AWWA C508: Swing Check Valves for Waterworks Service, 2" through 24"

Rating:

Valves are rated for 350psi water working pressure. All testing is done in accordance with AWWA C508.

End Configuration: Valves have integrally cast flat face flanges in accordance with ANSI B16.1 Class 125.

Materials:

- All Ductile Iron, which includes Hinge, Disc, Body, and Cover, conforms to ASTM A536 GR-65-45-12.
- Hinge Pins conform to ASTM A276 GR316
- Seat Rings are Stainless Steel conforming to ASTM A276 GR316

Coatings: Internal and external coatings are two-component epoxy conforming to AWWA C550.

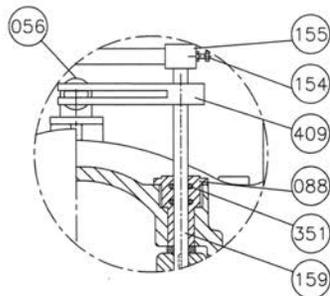
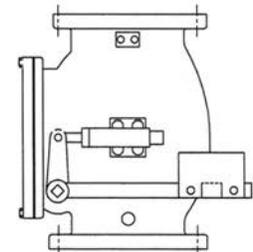
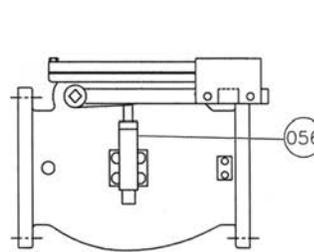
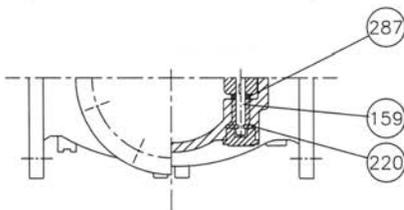
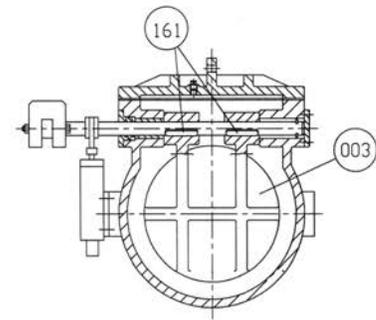
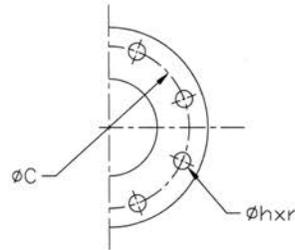
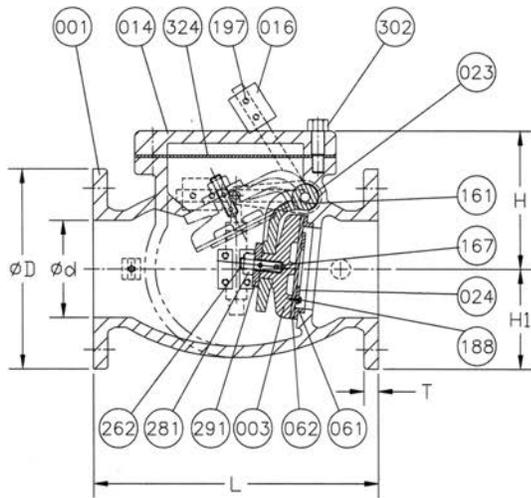
Design: All valves meet the standards of AWWA C508. All valves utilize a single disc mounted to a clevis hinge which prevents the disc from tipping. The valve disc swings open once the pump starts and allows for full flow. When closed the valve offers a tight shut-off. Valve body, cover and valve hinge are of Ductile Iron. Disc seating surface is Buna-N. Valve seat rings are of Stainless Steel.

The valve body has a bolted cover design and flanges are integral to body casting -not wafer style. Valve body and disc are designed in such a way as to minimize turbulence. Spring and Cushion systems are externally mounted on the side of the body and do not come in contact with main line media.

Cushion systems are one piece all bronze construction with integral pad mounted directly to the body with stainless steel fasteners. Air cushion shall consist of bronze and stainless steel components, be adjustable by means of a flow control valve and piston sleeve. Air cushion shall be totally enclosed with a metal end cap with an o-ring.

Installation: All valves are built for horizontal installation. However, all valves operate equally well in vertical installations. Prior to valve installation manufacturer should be notified of vertical mounting position so lever arm and weight can be properly positioned on valve.

CCNE Model 8501 Ductile Iron AWWA Swing Check Valves Air Cushion with Outside Lever and Weight or Spring



NO.	Parts	Material	ASTM Designation
056	AIR CUSHION	BRONZE	B62
409	TEAR DROP	DUCTILE IRON	A536 GR.65-45-12
351	O-RING	RUBBER (BUNA N)	D2000 BK 707
324	COVER GASKET	RUBBER (BUNA N)	D2000 BK 807
302	COVER BOLT	ZINC COATED STEEL	A307 GRADE B
291	WASHER	BRASS	B21
287	SPACER	BRASS	B21
281	DISC NUT	BRASS	B21
262	DISC STUD	BRASS	B21
220	SNAP RING	STAINLESS STEEL	-
197	WEIGHT BOLT W/NUT	ZINC COATED STEEL	A307 GRADE B
188	DISC SEAT BOLT	STAINLESS STEEL	A276 GRADE 304
167	ROLL PIN	STAINLESS STEEL	A276 GRADE 304
161	KEY	STAINLESS STEEL	A27 GRADE 304
159	HINGE PIN	STAINLESS STEEL	A276 GRADE 316
155	WEIGHT ARM	DUCTILE IRON	A536 GR.65-45-12
154	BOLT W/NUT	ZINC COATED STEEL	A307 GRADE B
088	SEAT NUT	BRASS	B21
062	DISC SEAT RING	RUBBER (BUNA N)	D2000 BK 807
061	BODY SEAT RING	STAINLESS STEEL	A276 GRADE 316
024	SEAT HOLDER	DUCTILE IRON	A536 GR.65-45-12
023	HINGE	DUCTILE IRON	A536 GR.65-45-12
016	WEIGHT	CAST IRON	A126 CLASS B
014	COVER	DUCTILE IRON	A536 GR.65-45-12
003	DISC	DUCTILE IRON	A536 GR.65-45-12
001	BODY	DUCTILE IRON	A536 GR.65-45-12

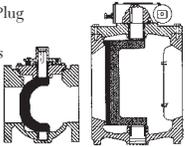
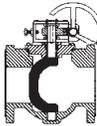
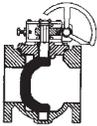
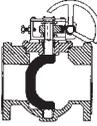
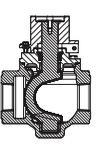
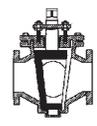
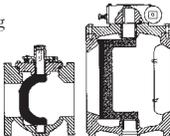
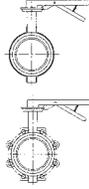
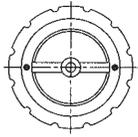
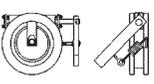
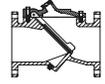
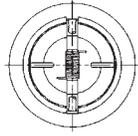
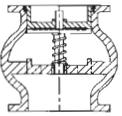
Size Od	ANSI B16.1 CL.125							
Inches	L	OD	OC	OH	n	T	H	H1
3	9-1/2	7-1/2	6	3/4	4	3/4	6-1/16	3-3/4
4	11-1/2	9	7-1/2	3/4	8	15/16	6-5/8	4-1/2
6	14	11	9-1/2	7/8	8	1	8-1/2	5-1/2
8	19-1/2	13-1/2	11-3/4	7/8	8	1-1/8	9-15/16	6-3/4
10	24-1/2	16	14-1/4	1	12	1-3/16	11-3/16	8
12	27-1/2	19	17	1	12	1-1/4	13-9/16	9-1/2
14	31	21	18-3/4	1-1/8	12	1-3/8	19-5/16	12-1/16
16	36	23-1/2	21-1/4	1-1/8	16	1-7/16	21-1/2	13-5/16
18	40	25	22-3/4	1-1/4	16	1-9/16	25	14-5/8
20	40	27-1/2	25	1-1/4	20	1-11/16	27-9/16	15-3/8
24	48	32	29-1/2	1-3/8	20	1-7/8	32-11/16	17-7/8

Dimensions for larger sizes available upon request.

* For reference ONLY. Contact factory for detailed sales drawings.

Notes

Milliken® Products Guide

<p>Series 600/601 Eccentric Plug Valve</p> <p>Welded Nickel Seat Stainless Steel Bearings ANSI-B16.1 Flanges Solid Ductile Iron Plug Low Pressure Drop Flanged & MJ Ends Sizes 2"-72" FL Sizes 3"-48" MJ</p> <p>Flanged and MJ</p> 	<p>Series 601SS Eccentric Plug Valve</p> <p>Integral Stainless Seat Stainless Steel Bearings Stainless Steel Body ANSI B16.5 Class 150 Flanges Solid Stainless Steel Plug Low Pressure Drop Size: 1/2"-24"</p> 	<p>Series 601RL Eccentric Plug Valve</p> <p>Soft or Hard Rubber Lining Stainless Steel Bearings ANSI B16.1 Flanges Solid Ductile Iron Plug Low Pressure Drop Sizes 3"-54" Metal Plugs Available - Consult Factory</p> <p>Rubber Lined</p> 	<p>Series 602 Eccentric Plug Valve</p> <p>Welded Nickel Seat Stainless Steel Bearings ANSI B16.1 Class 250 Flanges Solid Ductile Iron Plug Low Pressure Drop Sizes 2-1/2"-54"</p> <p>High Pressure</p> 
<p>Series 613A Eccentric Plug Valve</p> <p>Ductile Iron Construction Round Port Stainless Steel Bearings Low Pressure Drop Memory Stop NPT End Connections Sizes 1/2"-2"</p> <p>Threaded End</p> 	<p>Series 604E Eccentric Plug Valve</p> <p>Epoxy Seat Solid Ductile Iron Plug Stainless Steel Bearings Low Pressure Drop Lift & Turn NOT Required High Solids & Flow Capacity Sizes 3"-16"</p> <p>Three Way Valve</p> 	<p>Series 606 Eccentric Plug Valve</p> <p>Welded Nickel Seat Stainless Steel Bearings AWWA C-606 Grooved Solid Ductile Iron Plug Low Pressure Drop Ductile or Steel Pipe Sizes 3"-24"</p> <p>Grooved End</p> 	<p>Series 611/610 Eccentric Plug Valve</p> <p>Ductile Iron Body ANSI B16.1 Flanges MJ AWWA C111 Welded Nickel Seat Solid Ductile Iron Plug Low Pressure Drop Sizes 2"-72" FL Sizes 3"-48" MJ</p> <p>Flanged and MJ</p> 
<p>Model 625 Eccentric Plug Valve</p> <p>Available in Threaded and Flanged Ends Rated for 175 psi Sizes 1/2"-4" UL/CGA Listed</p> 	<p>Series 600FP/601FP Eccentric Plug Valve</p> <p>Full/100% PORT Welded Nickel Seat Stainless Steel Bearings ANSI-B16.1 Flanges Solid Ductile Iron Plug Low Pressure Drop Flanged & MJ Ends Sizes 2"-48" FL Sizes 3"-48" MJ</p> 	<p>Figure 396/397 General Service Butterfly Valve</p> <p>Meets MSS SP 67 Ductile Iron Body DI-NP Disc Other Materials Upon Request Wrench or Gear Operated Available 2"-48" Size Range</p> 	<p>Figure 510A/511A AWWA Butterfly Valve</p> <p>Complies with AWWA C-504 Class 150B Flanged or MJ Cast iron body and disc Seat in body Flow through disc on 24" and larger Epoxy Paint on all sizes standard 3" - 72"</p> 
<p>Series 8500 AWWA Swing Check</p> <p>Full waterway Ductile Iron Construction Weight or Spring Air Cushion SS body seat ring Buna disc insert Sizes 3"-24"</p> 	<p>Series 8000 AWWA Swing Check</p> <p>Full waterway Weight or Spring Bronze/SS Body Seat Ring Bronze/Buna/EPDM disc insert Sizes 2"-36"</p> 	<p>Series 9000 AWWA Swing Check</p> <p>Clear waterway Weight or Spring Air or Oil Cushion Bronze/SS Body seat ring Bronze/Buna/EPDM disc insert Sizes 3"-72"</p> 	<p>Model 720A Wafer Check Valve</p> <p>Center Guided Check Valve Rated for 250 psi SS Disc/EPDM Seat Sizes 2"-12"</p> 
<p>Series 700 Wafer Check Valve</p> <p>ANSI Class 125/150 High Flow Capacity Narrow Face-to-Face Sizes 3"-12" 316 SS Internals Disc Position Indicator</p> <p>Wafer Check Valve</p> 	<p>Figure 851 Flex Check</p> <p>Million Cycle Certification Complete Ductile Iron Construction 250 psi Pressure Rating Fully Epoxy Lined Interior No Internal Shafts, Bearings or Bushings No External Levers, Weights or Springs Mechanical Indicator (3"-16") 2"-24" Size Range Backflush Devices Proximity Switches</p> 	<p>Figure 740A Double Disc Check Valve</p> <p>Wafer pattern check valve rated for 250 psi. Available in sizes 2"-36" with a SS Disc/EPDM Seat</p> 	<p>Figure 821A Globe Style Check Valve</p> <p>Center guided check valve. SS Disc/EPDM Seat and is available in sizes 2"-24".</p> 

The trademarks, logos and service marks displayed in this document herein are the property of Henry Pratt Company, LLC, its affiliates or other third parties. Products above marked with a section symbol (§) are subject to patents or patent applications. For details, visit www.mwppat.com. Copyright © 2016 Henry Pratt Company, LLC. All Rights Reserved.

MILLIKEN®

Mueller Co.

Reliable Connections™