

# Water Technology Resources

9201 E Bloomington Freeway Suite Z

Bloomington, MN 55420

December, 2018

Phone: 952-641-9004 Fax: 952-885-9173

## 90° Swing Check Valves AWWA C508

### Specification Standards/Features/Options

Manufactured in Accordance with AWWA C508 Standards.

NSF61 Approved and Certified Materials of Construction

UL Listed and FM Approved

Size Range 2" – 72"

Seat Options – Metal, Resilient Rubber

Operation Options: Gravity, Outside Lever – Weight – Spring - Air/Oil Hydraulic Cylinder

Outside Lever/Operator – May be installed on either side of the Valve

Body, Cover, Disc Optional material – Cast Iron/Ductile Iron/Bronze

Internal Parts serviceable without having to remove Valve from Pipeline.

End Connections: Flanged ANSI B16.1

Pressure Class 125/Class 250

Flange Laying Length per AWWA C508

Drain Plug to allow drainage

Tapping Bosses Available on both sides of Valve Body (By-Pass Connection)

Cover – Lifting Lug

NSF61/AWWA C550 Approved FBE – Fusion Bonded Epoxy Resin

Enlarged Stainless Steel Hinge Pin

DATE: 1/16/2019

## INVITATION TO BID FROM JEFFERSON PARISH - continued

Page: 5

BID NO.: 50-00125265

SEALED BID

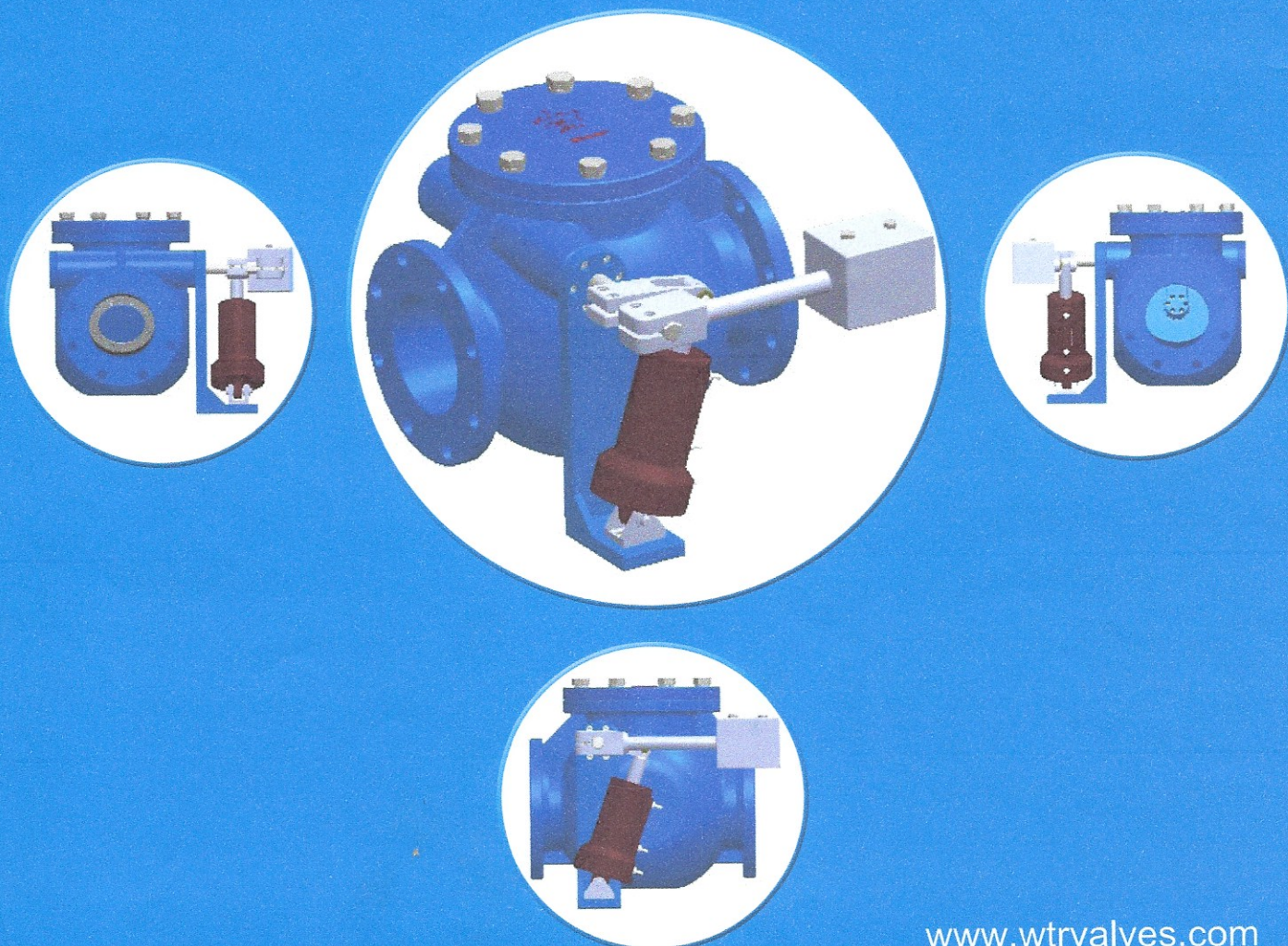
ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			A purchase of stock items for the Department of Public Works Warehouse		
1	10.00	EA	0010 CLAMP, PIPE REPAIR, 6 INCH X 1 INCH CC TAP X 15 INCH LONG, ALL STAINLESS,  7.25 TO 7.65 RANGE, SINGLE BAND, FULL GASKET, DOMESTIC, FORD #FS1-765-15-CC4 STK. # 0170410		
2	10.00	EA	0020 COUPLING, REDUCING, 14 IN X 12 IN, LARGE O.D. RANGE 13.90-16.00, SMALL O.D.  RANGE 12.40 - 13.66, EPOXY COATED, TWO STAINLESS STEEL BOLTS AND NUTS, DOMESTIC HYMAX #861560315035316 STK. # 0181560		
3	5.00	EA	0030 CLAMP, PATCH, 3/4 INCH X 8 INCH LONG, ALL STAINLESS, 1.05 O.D., TAPERED  WAFFLE GASKET, FULL CIRCLE, DOMESTIC, POWERSEAL #3151AS STK. # 0184450		
4	5.00	EA	0040 CLAMP, PATCH, 1 INCH X 8 INCH LONG, ALL STAINLESS, 1.12 TO 1.32 O.D. TAPERED  WAFFLE GASKET, FULL CIRCLE, DOMESTIC, POWERSEAL MODEL 3151AS STK. # 0184500		
5	800.00	EA	0050 BOLT, HEX HEAD, 3/4 IN - 10 X 3-1/2 IN LONG, DOMESTIC, GRADE 5  IDENTIFICATION MARKING, BAKED ON BLUE TEFLON COATING MEETS ASTM B117 STK. # 0436620		
6	100.00	EA	0060 BOLT, HEX HEAD, 1-1/4 IN - 7X6-1/2 LONG, DOMESTIC, GRADE 5 IDENTIFICATION  MARKING, BAKED ON BLUE TEFLON COATING MEETS ASTM B117 STK. # 0437410		
7	3.00	EA	0070 VALVE, CHECK, 8 IN, 19-1/2 IN FACE TO FACE, FLANGED, GRAVITY OPERATED, IBBM RUBBER DISC FACING, EPOXY COATED, STAINLESS STEEL BOLTS/NUTS, DOMESTIC, MUELLER #A-2602-6 STK. # 0621720 (STOCK ITEMS FOR BID)	\$ 1280	3840 <sup>00</sup>

1/21/19  
WTR

②



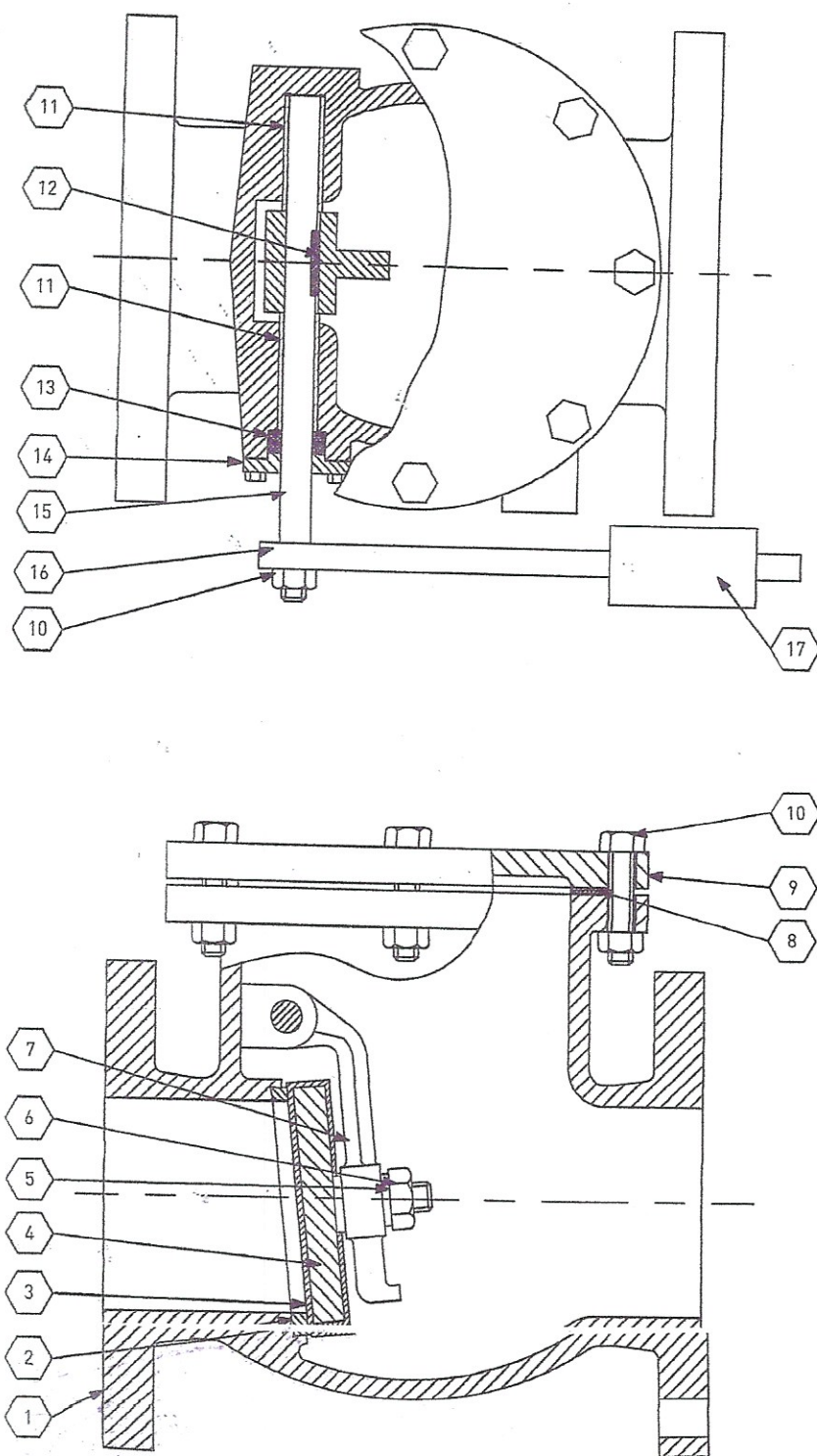
## SWING CHECK VALVE







## MATERIALS OF CONSTRUCTION RUBBER SEATED

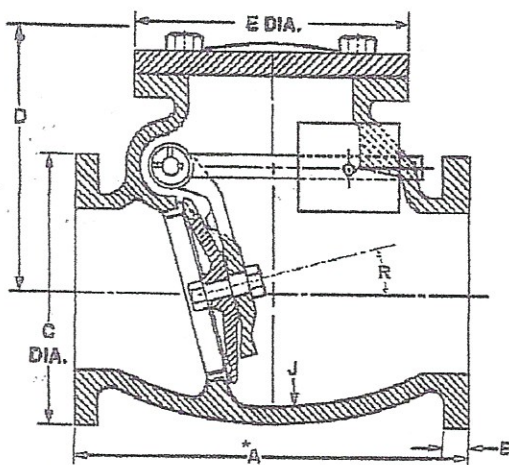


ITEM	DESCRIPTION	MATERIAL OPTIONS
1	BODY	DUCTILE IRON ASTM A536 65-45-12
2	BODY SEAT RING	STAINLESS 304 ASTM A276
		STAINLESS 316 ASTM A276
		BRONZE ASTM B62
3	DISC SEAT	EPDM
		BUNA-N (NBR)
		VITON (FPM)
4	DISC	DUCTILE IRON ASTM A536 65-45-12
5	WASHER	STEEL ASTM A36
6	WETTED HARDWARE	STAINLESS ASTM F593 GROUP 1
		STAINLESS ASTM F593 GROUP 2
		STEEL ASTM A325 TYPE 1
7	ARM	DUCTILE IRON ASTM A536 65-45-12
8	SEAL	EPDM
		BUNA-N (NBR)
9	COVER	SAME AS BODY (1)
10	EXTERIOR HARDWARE	STAINLESS ASTM F593 GROUP 1
		STAINLESS ASTM F593 GROUP 2
		STEEL ASTM A325 TYPE 1
11	BEARING	PTFE
12	KEY	STEEL ASTM A36
13	SHAFT SEAL	EPDM
		BUNA-N (NBR)
14	RETAINER	SAME AS BODY (1)
15	SHAFT	STAINLESS 304 ASTM A276
		STAINLESS 316 ASTM A276
		STAINLESS 17-4PH ASTM A693
16	ARM*	DUCTILE IRON ASTM A536 65-45-12
17	WEIGHT*	DUCTILE IRON ASTM A536 65-45-12

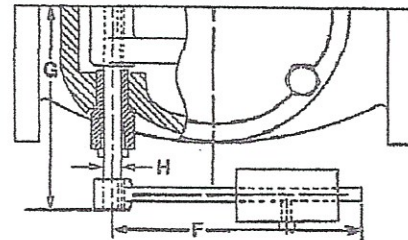
\* IF EQUIPPED

## Water Technology Resources – WTR Valves

### Dimensional Data 2"-12"



**OPTIONAL  
DETAIL LW/LS**



L—BOLT CIRCLE DIA. END FLANGES  
M—NO. OF BOLTS PER FLAT END FLANGES  
N—BOLT HOLE DIA.  
END FLANGES CONFORM TO ANSI B16.1

\*Face to face dimensions conform to ASME B16.10

SIZE	*A	B	C	D	E	F	G	H	J	L	M	N	Q*	R
2"	8.00	0.65	6.00	6.00	6.56	5.00	4.72	.50	0.34	4.75	4	.75	4	10.0
2 1/2"	8.50	.069	7.00	6.44	6.56	5.25	4.94	.50	0.41	5.50	4	.75	4	8.0
3"	9.50	0.78	7.50	6.85	6.56	6.00	5.34	.50	0.44	6.00	4	.75	4	8.0
4"	11.50	1.00	9.00	8.69	9.00	7.75	8.19	.62	0.41	7.50	8	.75	4	12.0
6"	14.00	1.03	11.00	10.51	11.00	9.75	9.00	.75	0.43	9.50	8	.87	4	15.0
8"	19.50	1.25	13.50	12.56	13.50	14.13	10.18	.87	0.75	11.75	8	.87	4	15.0
10"	24.50	1.31	16.00	14.07	16.75	18.00	11.62	1.00	0.81	14.25	12	1.00	6	15.0
12"	27.50	1.38	19.00	16.13	19.00	18.00	13.75	1.00	0.87	17.00	12	1.00	6	15.0

#### BODY MARKINGS

(ONE SIDE)

A.W.W.A.

(OPPOSITE SIDE)

FIG. NO.

#### CAP MARKINGS

YEAR

SIZE





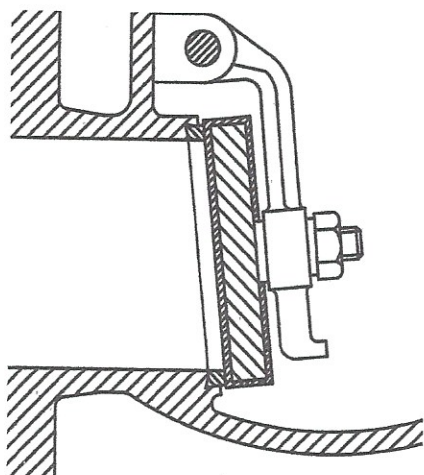


## Design Features



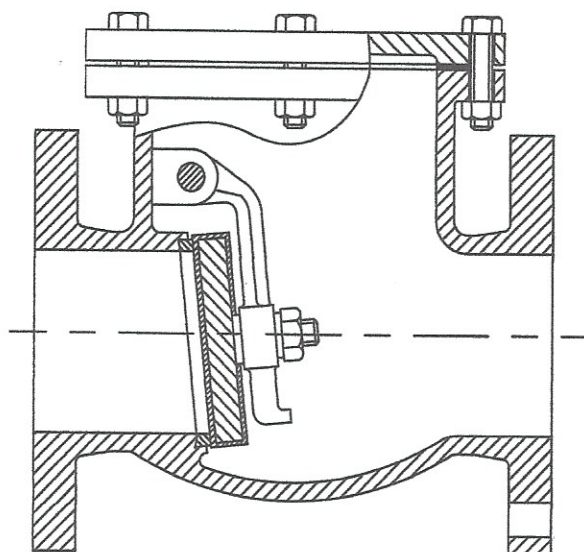
### Replacable Seats

Swing Check Valves incorporate a replaceable seat, which can be removed without taking the valve out from the line. Simply remove the sealed cover, and change out the entire disc.



### Rebuildable Body

Swing Check Valves are built with ductile iron, cast iron, or stainless steel. The valve features Large Service Port that can be removed and can service all internal parts without removing the valve from the line.



### Design Standards

Construction	AWWA C508
	ASME B16.34
	API 600
Coatings	AWWA C550
Connections	ANSI B16.1 Class 125*
	ANSI B16.5 Class 150
	ANSI/AWWA C111/A21.11
	ISO 7005
Laying Length	AWWA C508 Appendix A
	ISO 5752
Classifications	150 PSIG
	175 PSIG*
	200 PSIG
	250 PSIG

\*Standard Option



American Water Works  
Association





Bakersfield California  
Wastewater Treatment Plant  
24" AWWA C 508 Swing  
Check Valves - OLW  
Parsons Engineering  
Kiewit Construction

2008

