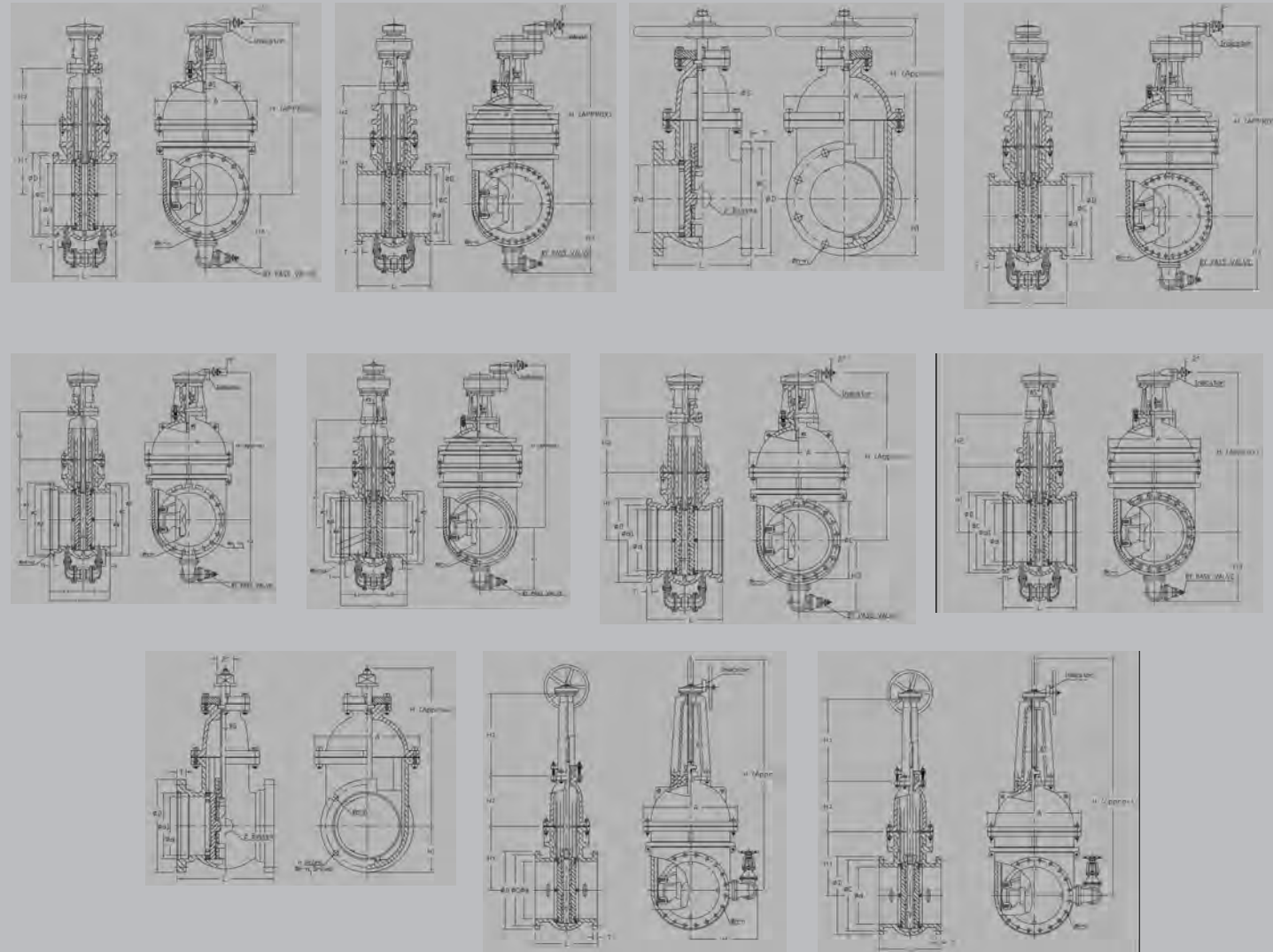


AVAILABLE END CONNECTIONS & DIMENSIONS



3"-48" Dimensions

Size (d)	HM	BM	DM	KM	EM	M	Q	R
3"	11.38	7.50	6.19	4.06	4-625	13.38	6.63	8.38
4"	11.25	9.00	7.50	4.91	4-0.75	14.13	6.75	9.00
6"	11.75	11.00	9.50	7.00	6-0.75	17.88	8.00	11.75
8"	13.25	13.25	11.75	9.16	6-0.75	21.00	9.25	14.25
10"	14.50	15.63	14.00	11.20	8-0.75	24.38	10.13	16.88
12"	14.50	17.88	16.25	13.31	8-0.75	28.25	10.75	19.13

Size (d)	L	C	D	h	n	T	H	H3	A
14"	21.00	18.75	20.25	0.75	10.00	1.38	34.13	—	24.13
16"	21.00	21.00	23.00	0.88	12.00	1.38	46.25	26.81	26.13
18"	28.50	23.25	24.75	0.88	12.00	1.44	47.88	27.44	28.50
20"	25.75	25.50	27.00	0.88	14.00	1.50	52.25	29.38	32.06
24"	28.50	30.00	31.63	0.88	16.00	1.63	58.63	32.81	37.63
30"	38.50	36.88	39.13	1.13	20.00	1.81	71.00	35.88	44.13
36"	42.00	43.75	46.00	1.13	24.00	2.00	81.75	39.38	52.25
42"	44.00	50.63	53.13	1.38	28.00	2.00	101.00	44.63	58.50
48"	48.00	57.50	60.00	1.38	32.00	2.00	121.00	52.38	69.00

Consult American R/D for dimensions and drawings.

American R/D
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 Anniston, Al 36207
 Phone 256-831-2236
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A Division of McWane, Incorporated
www.american-rd.com



For Generations

American R/D

ROTATING DISC GATE VALVE C-500

3" THROUGH 72"

SERIES 50



3"-72"
 AWWA C-500
 Rated up to 250psi
 Ductile Iron Construction
 Full water way for wet tapping
 service applications

AMERICAN R/D ROTATING DISC GATE VALVE

ROTATING DISC GATE VALVE SERIES 50

American R/D 50-Line Double Rotating Disc Gate valves meet all requirements of AWWA C-500, latest revision. Working pressure for sizes 3"-54" is up to 250 p.s.i. Shell test pressure is 500 p.s.i. Working pressure 60" and 66" is up to 100 p.s.i. Shell test pressure is 200 p.s.i.

This design has been used successfully since 1908 in treatment plants and water lines all over the United States.

The plain "no pocket" discs and wedges prevent accumulation of line scale or sludge, and the discs are entirely free to revolve throughout their full travel.

The foolproof assembly of discs and wedges is accomplished without the use of links or other auxiliary means.

Parts can neither be incorrectly assembled nor become disengaged while in service.

In closing the valve, the discs are carried to their positions opposite the seat rings by the upper wedge, at which time the lower wedge contacts the bridge in the bottom of the valve body. Further turning of the stem spreads the wedges and forces the discs securely against their seats.

The disc trunnions engage openings in the upper wedge. These openings are larger in diameter than the trunnions. This clearance assures positive release of the wedges when opening the valve. The first turn of the stem

releases the wedging pressure from the discs by raising the upper wedge without movement of the discs.

The upper wedge is made with radiused faces which provide a line contact with the straight faced lower wedge. The faces of both wedges are transversely beveled. By means of the design, friction between the wedges is reduced to a minimum, and horizontal and vertical equalization of the wedging pressure against the backs of the discs is assured. Either disc will seal equally well with line pressure.

The fully rotating discs are ideally suited for use where valves are installed in horizontal pipelines. No auxiliary rollers are required in the operation of the valves. The discs roll on their circumferences and carry their own weight and the weight of the wedges. This is particularly desirable in large valves, and assures easy and dependable operation.

The bodies and bonnets of valves 16" and larger, which operate in the horizontal position, require hardened bronze tracks on which the discs roll.

Self-adjusting bronze scrapers are attached to the upper wedge, which help clear these tracks of sediment, build-ups or other obstructions.

American R/D can furnish gate valves for higher pressure upon application.

RECOMMENDED SPECIFICATIONS FOR THE REVOLVING/ROTATING DISC GATE VALVE 3"-72".

Gate valves shall be of the double rotating disc, ductile iron body, parallel seat design. Independent wedging action shall be designed to spread the two discs against the seats in the valve body. Seats in the valve body shall be field replaceable without removing the valve from the pipeline. Discs are to be free to revolve 360° for even distribution of wear on disc face and mating seat rings.

The two discs must be interchangeable with each other and field replaceable without removing valve from pipeline. Either disc must be able to seat with line pressure.

Wedging surfaces shall be protected by stainless steel shoes for corrosion resistance.

Valves to be available with flanged or mechanical joint ends for connection to piping specified.

Non-rising stem valves without gears shall have

double O-ring stem seals instead of conventional packing. Valve design shall allow replacement of the O-rings with the valve under pressure in the full open position.

All valves 16" and larger to be equipped with gearing for facilitation of opening. When by-pass valve is furnished, it shall be bolted to the bottom or side of the main valve as required.

Valves 3" through 54" to be rated up to 250 p.s.i. cwp and 60" and 66" to be rated up to 100 p.s.i. cwp. All valves shall be subject to seat test between gate discs as well as shell test for body and bonnet. Shell test to be at twice the rated working pressure for all size valves.

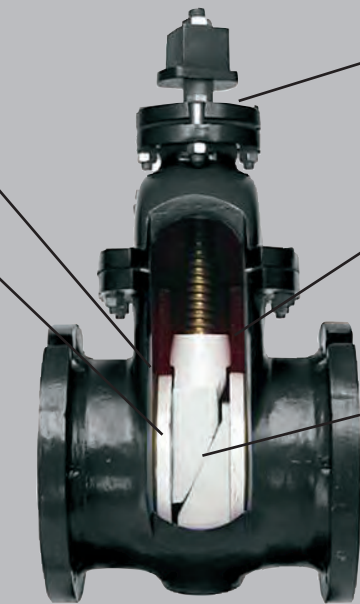
All internal and external ferrous surfaces shall be coated with an asphaltic varnish in compliance with NSF-61. Valves to be equal in all respects to the American R/D 50-Line Series.

BRONZE SEAT RINGS THREADED INTO BODY CAN BE REPLACED WHILE VALVE IS IN LINE.

FULLY REVOLVING DISCS SEAT IN DIFFERENT POSITIONS EACH TIME VALVE IS OPERATED.

NO LINKS OR AUXILIARY MEANS ARE NECESSARY TO HOLD PARTS IN POSITION.

2"-72" NRS AND OS&Y CONFIGURATIONS



NON-RISING STEM VALVE (NRS)

O-RING TYPE STEM SEAL WITH DOUBLE O-RINGS OR ADJUSTABLE PACKING.

UPPER WEDGE CARRIES DISCS OPPOSITE THEIR SEATS BEFORE WEDGES SPREAD. WEDGING PRESSURE IS RELEASED FROM BACKS OF DISCS BEFORE THEY START TO RISE.

RADIUS FACED UPPER WEDGE AND TRANSVERSELY BEVELED FACES ON WEDGES PROVIDE HORIZONTAL AND VERTICAL EQUALIZATION OF WEDGING PRESSURE ON BACKS OF DISCS.

WEDGES AND DISCS CANNOT BE ASSEMBLED INCORRECTLY.

EXTRA WIDE DISC AND SEAT RING FACES PROVIDE LARGE SEATING AREA.

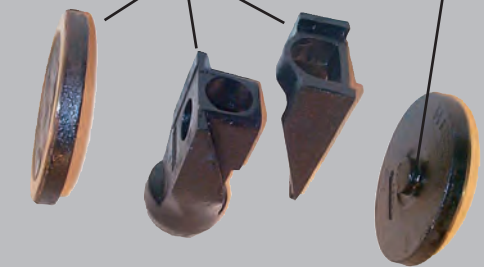
NO LINKS OR AUXILIARY MEANS ARE NECESSARY TO HOLD PARTS IN POSITION.

ALL WORKING PARTS ARE PERFECTLY PLAIN WITH NO POCKETS TO COLLECT SEDIMENT OR PREVENT FREE AND EASY MOVEMENT.

DISCS ARE SUSPENDED BY THEIR CENTER TRUNNIONS.



DISCS AND WEDGES (Shown Assembled)



DISCS AND WEDGES (Shown Separated)

BENEFITS

Heavy Duty Body

Ductile Iron construction. Full body wall thickness, high strength up to 250 p.s.i. rating.

Stem Seals

Field replaceable with the valve under pressure in the full open position.

Bronze Body Seat Rings

Seals against bronze faced disc.

Revolving Discs

This feature assures maximum life under the most exacting service conditions. Discs revolve during travel so

that scum or sludge build-up is wiped from the bronze face of the discs. This self-cleaning feature makes this design equally suitable for both potable water and sewage service.

Quality Product

We take pride in offering a time proven quality product. Our quality control and testing assures you will receive the highest quality valve. This design has been manufactured continuously since 1908.