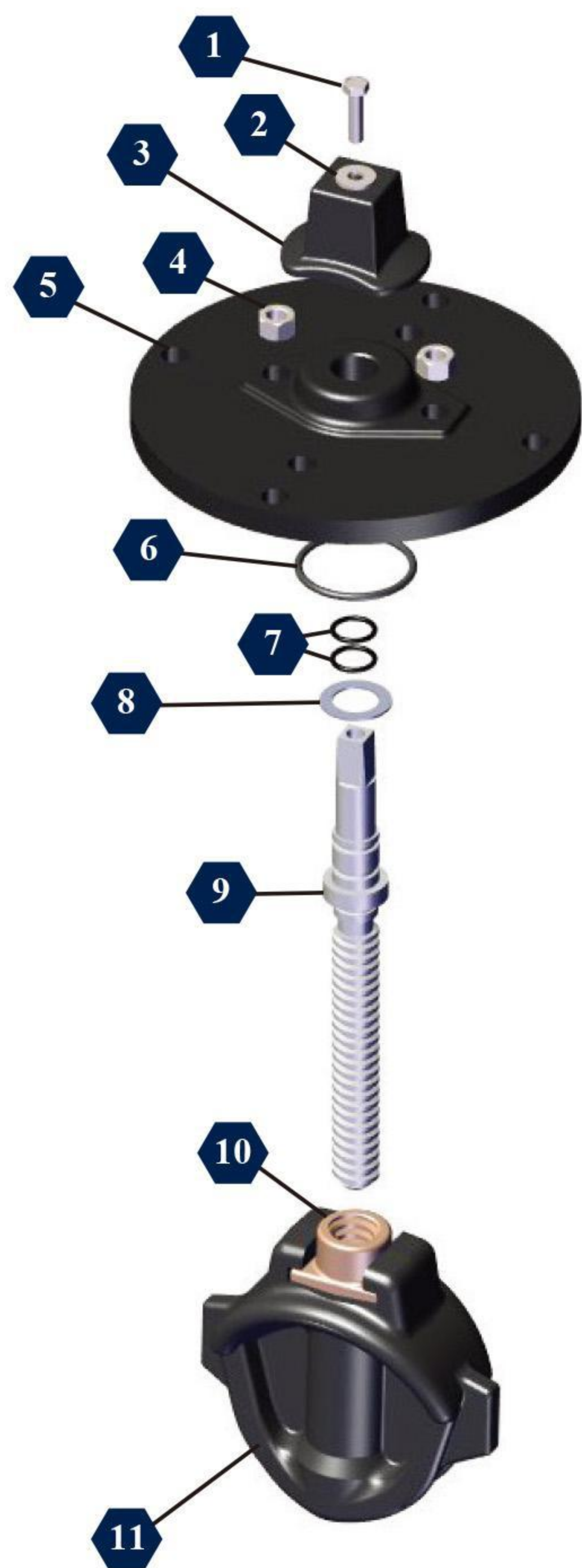


RESILIENT SEATED GATE VALVE COMPONENTS

NRS with POST PLATE



OS&Y



NO.	DESCRIPTION	MATERIAL	NO.	DESCRIPTION	MATERIAL
1	Op-Nut Bolt	Stainless Steel	17	Body	Ductile Iron
2	Op-Nut Washer	Stainless Steel	18	Cover / Body Nut	Stainless Steel
3	Op-Nut	Ductile Iron	19	Packing Gland	Ductile Iron
4	Post Plate / Stuffing Box Nut	Stainless Steel	20	Packing	Garlock Style 18
5	Post Plate	Cast Iron	21	OS&Y Wheel Nut	Bronze
6	Post Plate / Stuffing Box O-Ring	Rubber	22	Hand Wheel	Cast Iron
7	Stem O-Rings	Rubber	23	OS&Y Cover	Ductile Iron
8	Thrust Teflon Washer	Plastic	24	OS&Y Yoke Washer	Plastic
9	NRS Stem	Bronze	25	OS&Y Yoke Nut	Bronze
10	NRS Stem Nut	Bronze	26	Packing Stud	Stainless Steel
11	Resilient Wedge	EPDM Encapsulated Ductile Iron	27	OS&Y Stem	Stainless Steel
12	Stuffing Box	Ductile Iron	28	OS&Y Stem O-Ring	Rubber
13	Post Plate / Stuffing Box Plate Bolt	Stainless Steel	29	OS&Y Stem Pin	Stainless Steel
14	NRS Cover	Ductile Iron	30	OS&Y Stem Head	Stainless Steel
15	Cover / Body Bolt	Stainless Steel	31	Handwheel Yoke Washer	Brass
16	Cover / Body O-Ring	Rubber			

ENGINEERING FEATURES

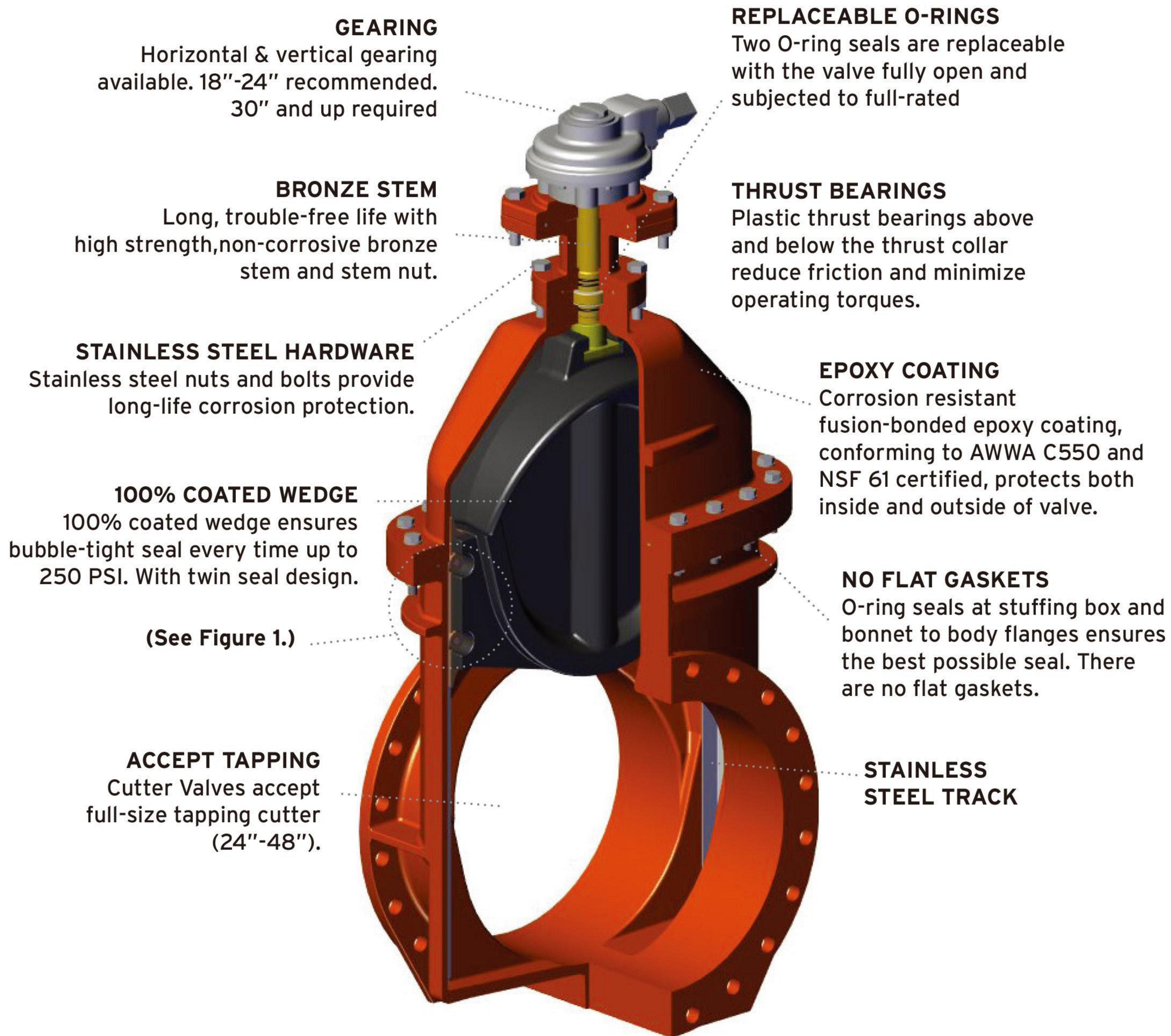
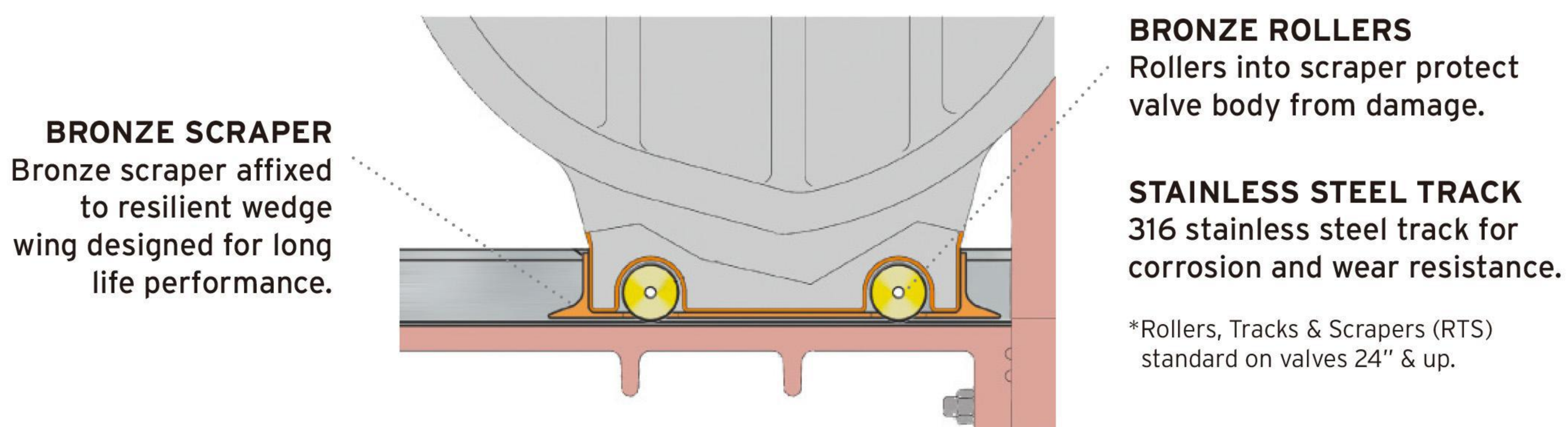


FIG 1. CLEANTRACK™ TECHNOLOGY

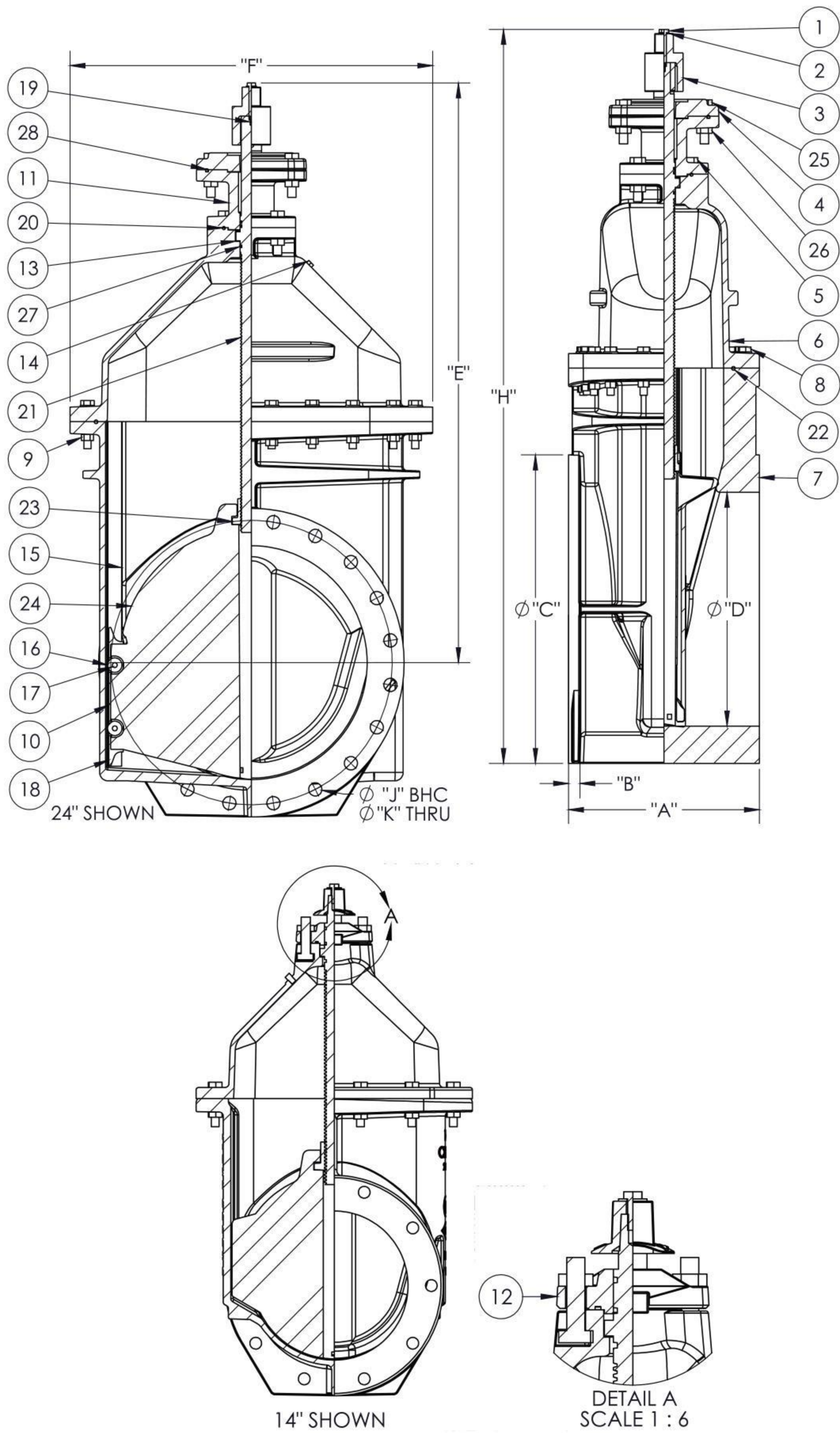


C515 NON-RISING RESILIENT SEATED GATE VALVE

FLANGED ENDS

SIZES 2"-24"

PARTS LIST		
SIZE	A	B
1	Bolt	GR 2 ZN SAE J429
2	Washer	GR 2 ZN SAE J429
3	OP Nut	Grey Iron ASTM A126 Class B
4	Adaptor Plate (18"-24")	Ductile Iron ASTM A536 70-50-05
5	Hex Head Bolt	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600
6	Cover	Ductile Iron ASTM A536 70-50-05
7	Body	Ductile Iron ASTM A536 70-50-05
8	Hex Head Bolt	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600
9	Hex Nut	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600
10	Wedge Cover (18"-20")	Delrin
11	Extension (18"-24")	Ductile Iron ASTM A536 70-50-05
12	Stuffing Box (2"-16")	Ductile Iron ASTM A536 70-50-05
13	Thrust Washer	Delrin
14	Pipe Plug (14"-24")	18-8SS
15	Track (24")	AL Bronze ASTM B148 C95400
16	Roller (24")	Copper Alloy ASTM B584 C95400
17	Pin (24")	316 Stainless Steel
18	Scraper (24")	Copper Alloy ASTM B584 C95400
19	Square Key (18"-24")	GR 2 ZN SAE J429
20	O-Ring	EPDM
21	Stem	Manganese Bronze ASTM B584 C86700 / 304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / NDZ B763 C99500 (2"-12")
		Manganese Bronze ASTM B584 C86200 / 304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / NDZ B763 C99500 (14"-24")
22	O-Ring	EPDM
23	Stem Nut	Manganese Bronze ASTM B584 C86700 (2"-12") Copper Alloy ASTM B584 C87850 (14"-24")
24	Wedge	Ductile Iron ASTM A536 70-50-05 / EPDM Rubber
25	Ind. Post Plate Hex Bolts	ASTM F593 S30400
26	Ind. Post Plate Hex Nuts	ASTM F594 S30400
27	Stem O-Ring	EPDM
28	Ind. Post Plate O-Ring	EPDM

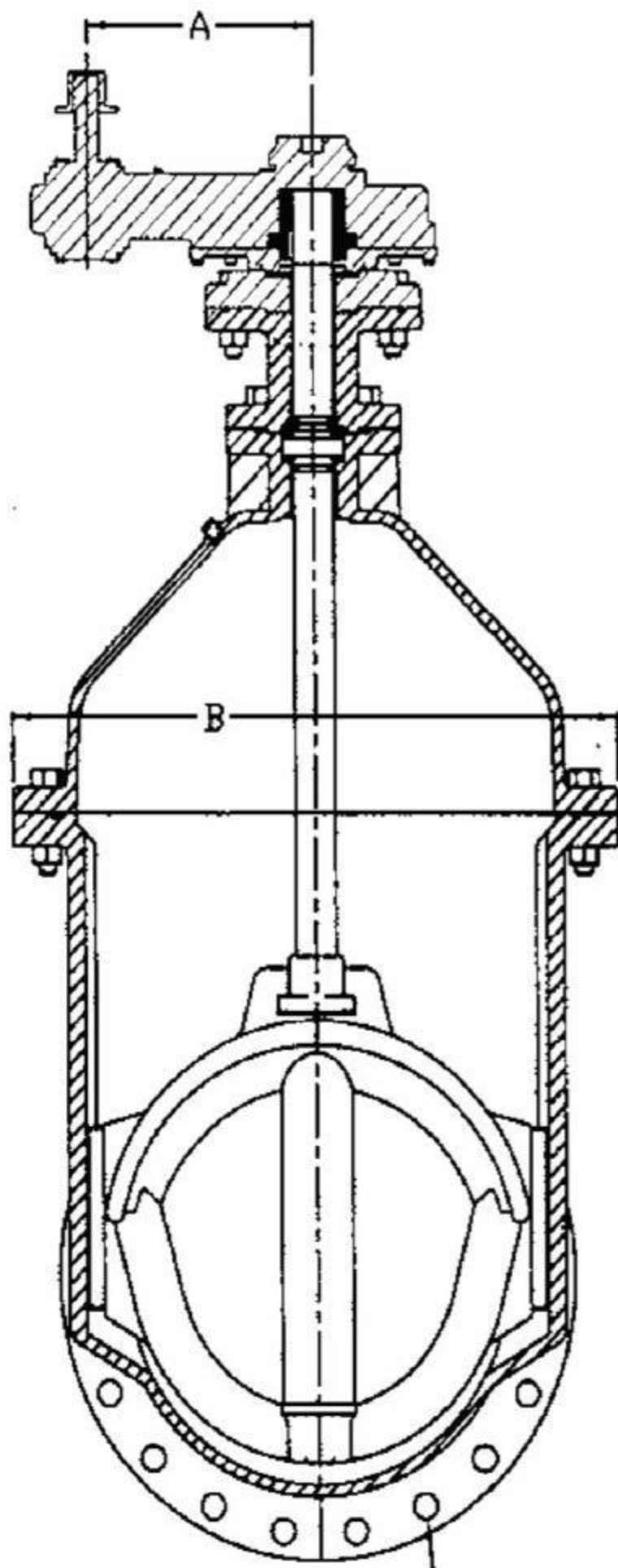
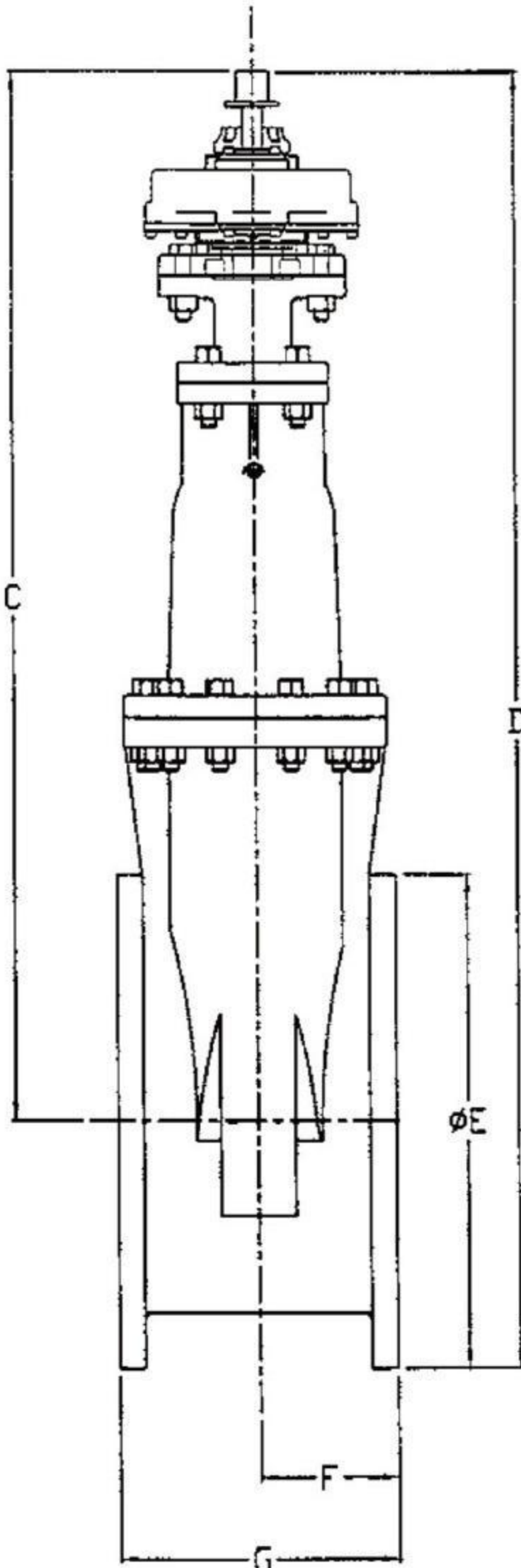
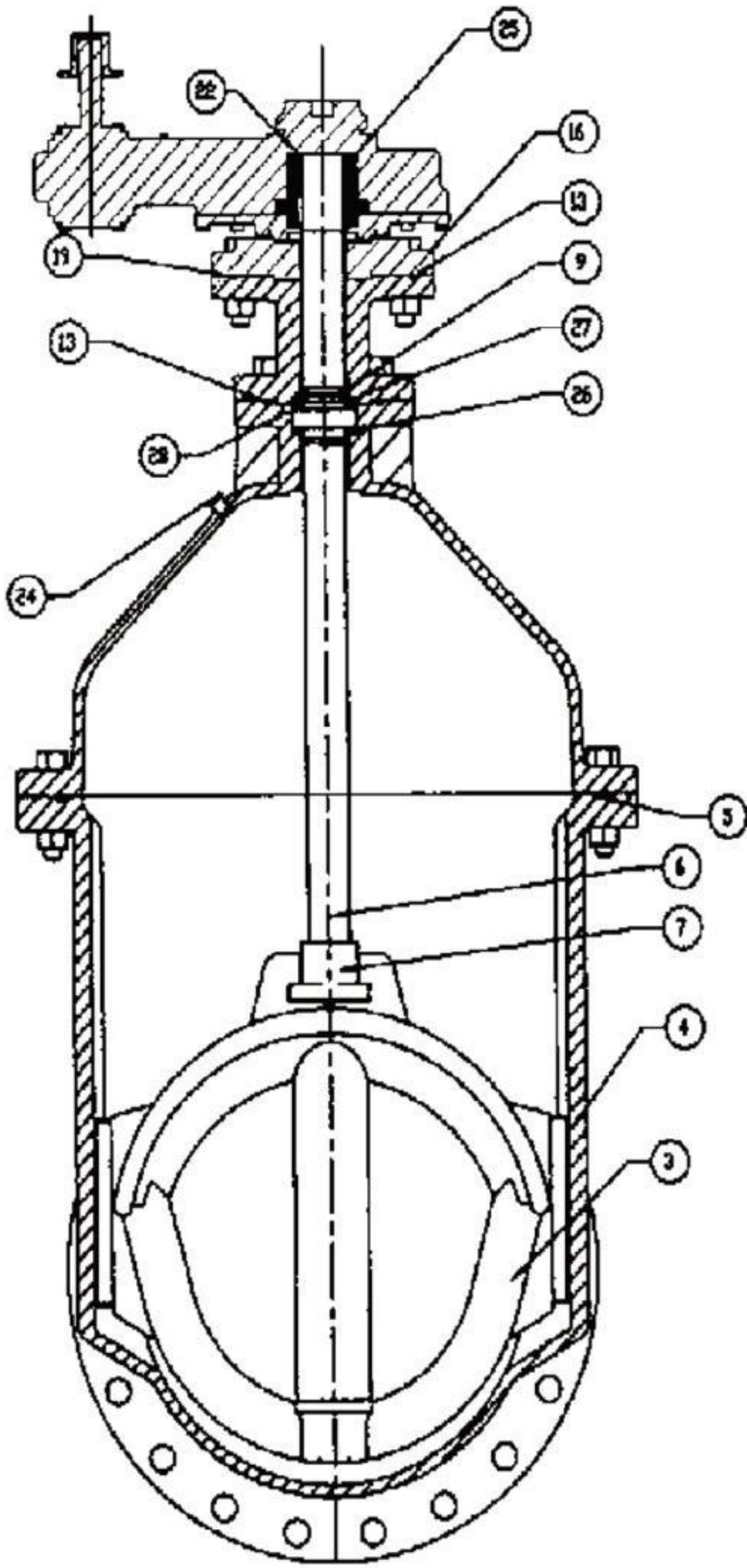
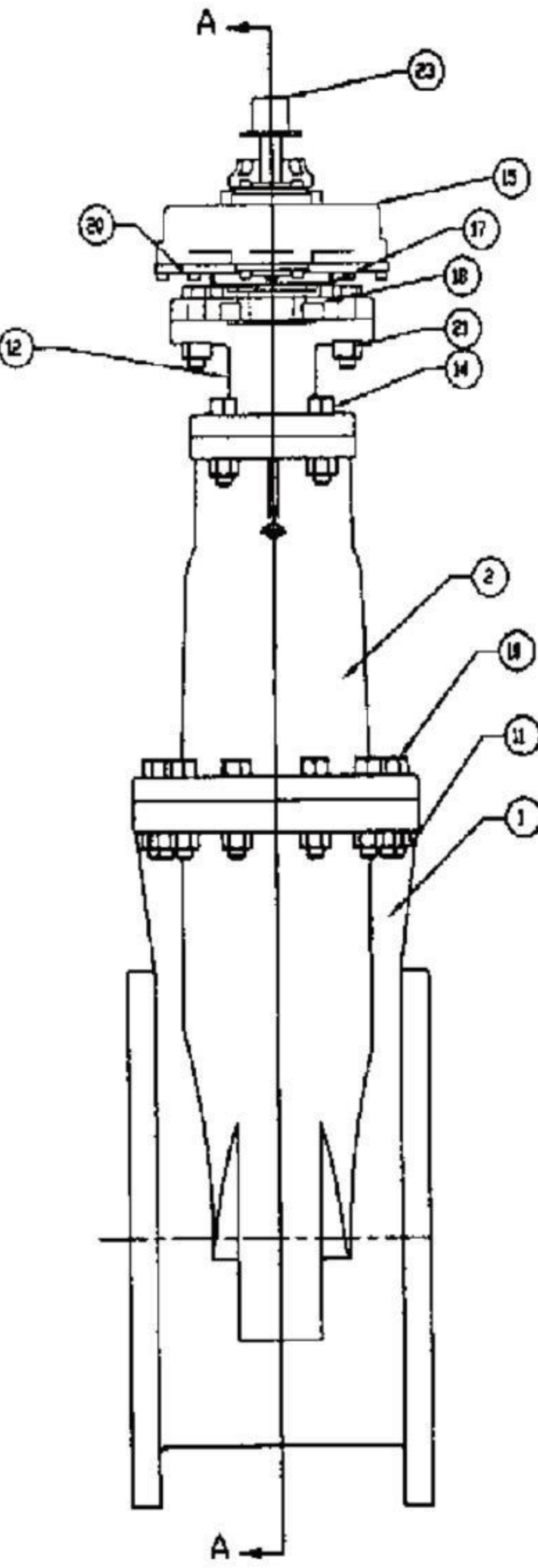


DIMENSIONS											
SIZE	A	B	C	D	E	F	H	J	K	No. Turns to Open	Weight (lbs.)
2	7"	5/8"	6"	2"	11-7/16"	6"	14-7/16"	4-3/4"	5/8" x 4	6-1/2	40.85
2-1/2	7-1/2"	11/16"	7"	2-1/2"	12-1/16"	7"	15-9/16"	5-1/2"	5/8" x 4	8	50.53
3	8"	3/4"	7-1/2"	3"	12-3/8"	7-1/2"	16-15/16"	6"	5/8" x 4	10	79.29
4	9"	15/16"	9"	4-1/4"	14-3/4"	9"	20-1/4"	7-1/2"	5/8" x 4	13	101.75
6	10-1/2"	1"	11"	6-1/4"	19"	11-3/8"	24-1/8"	9-1/2"	3/4" x 8	19	139.04
8	11-1/2"	1-1/8"	13-1/2"	8-1/4"	22-1/2"	13-1/2"	29-1/2"	11-3/4"	3/4" x 8	25	208.05
10	13"	1-3/16"	16"	10-1/4"	26-1/2"	16"	34-1/2"	14-1/4"	7/8" x 12	31	339.52
12	14"	1-1/4"	19"	12-1/4"	30"	19"	39-1/2"	17"	7/8" x 12	37	406.78
14	15"	1-3/8"	21-1/16"	14-1/4"	38-5/16"	26-11/16"	49"	18-3/4"	1" x 12	52	675.00
16	16"	1-7/16"	23-1/2"	16-1/4"	37-5/16"	26-11/16"	49-1/8"	21-1/4"	1" x 16	52	720.00
18	17"	1-9/16"	25"	18-1/4"	56-1/16"	32-1/4"	68-9/16"	22-3/4"	1-1/4" x 16	64	1100.00
20	18"	1-11/16"	27-1/2"	20-1/4"	56-1/4"	32-1/4"	70"	25"	1-1/4" x 20	64	1325.00
24	20"	1-7/8"	32"	24-1/4"	60-1/8"	38"	76-1/8"	29-1/2"	1-3/8" x 20	88	1732.00

C515 NON-RISING RESILIENT SEATED GATE VALVE

FLANGED ENDS WITH SPUR GEARING

SIZES 14"-24"



H- No. & Size of Bolts
Drilling per ANSI B16.1
Class 125

DIMENSIONS								
SIZE	A	B	C	D	E	F	G	H
14	8	26-11/16	52-1/8	63	21	7-1/2	15	1" x 12
16	8	26-11/16	51-1/8	63	23-1/2	8	16	1" x 16
18	12	32-1/4	58	70-1/2	25	8-1/2	17	1-1/8" x 16
20	12	32-1/4	57	70-1/2	27-1/2	9	18	1-1/8" x 20
24	12	38	62-5/8	78-5/8	32	10	20	1-3/8" x 20

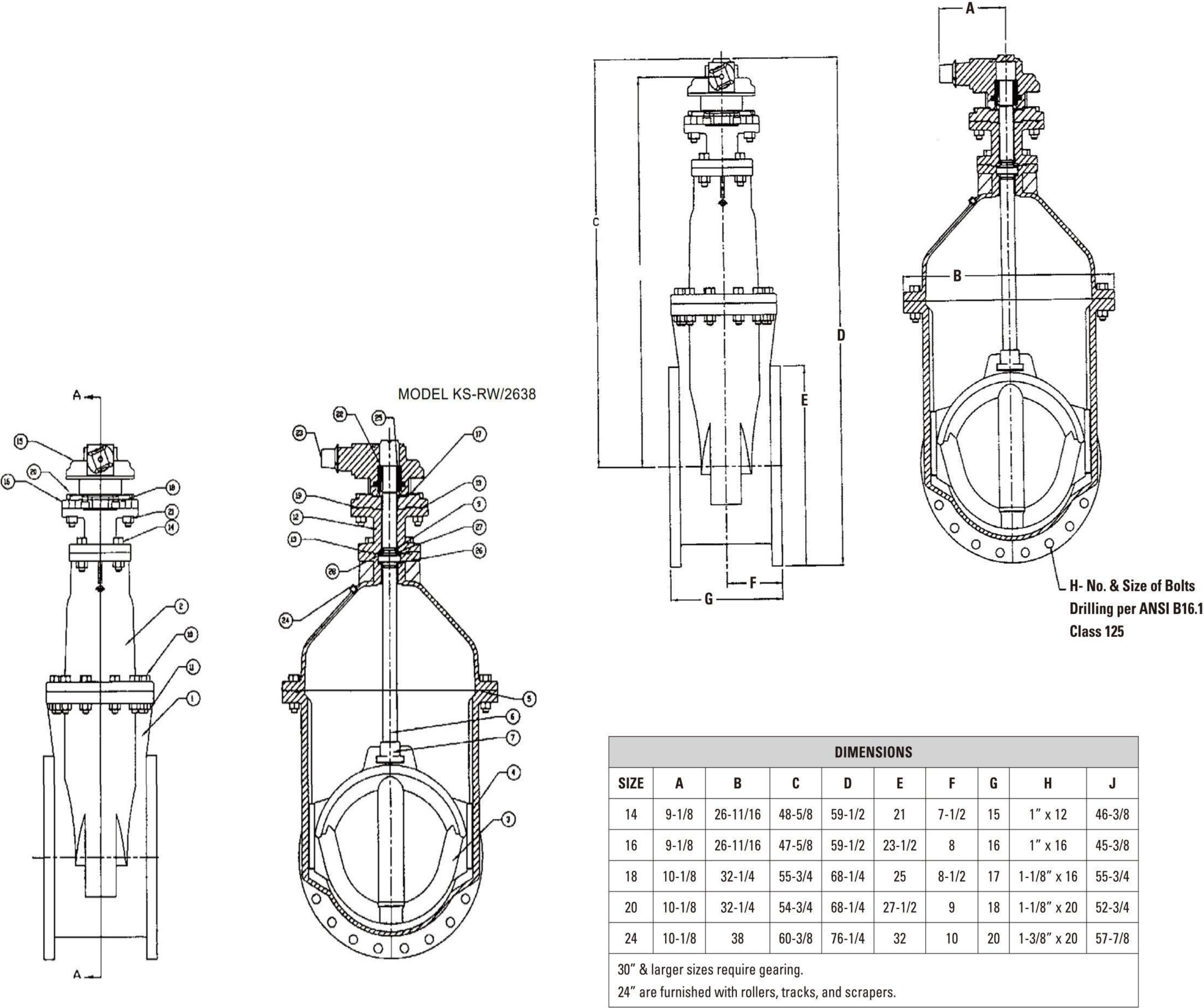
30" & larger sizes require gearing.
24" are now furnished with rollers, tracks, and scrapers.

PARTS LIST				PARTS LIST				PARTS LIST			
No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION
1	Body	Ductile Iron	ASTM A536 GR 65-45-12	11	Hex Nut	Stainless Steel	ASTM F593-304	20	Hex Bolt	Stainless Steel	ASTM F593-304
2	Cover	Ductile Iron	ASTM A536 GR 65-45-12	12	Extension	Ductile Iron	ASTM A536 65-45-12	21	Hex Nut	Stainless Steel	ASTM F593-304
3	Wedge	Ductile Iron / Rubber EPDM	ASTM A536 GR 65-45-12 / EPDM	13	O-ring	Rubber	NBR	22	Key	Steel	
4	Wedge Cap (18"-24")	Delrin	Delrin	14	Hex Head Bolt	Stainless Steel	ASTM F593-304	23	OP Nut	Ductile Iron	ASTM A536 65-45-12
5	O-ring	Rubber	NBR	15	Actuator - 3:1 (18"-24") 2:1 (14"-16")			24	Pipe Plug	Steel	Steel
6	Stem	Bronze	ASTM B584 C86700	16	Adapter Plate	Ductile Iron	ASTM A536 GR 65-45-12	25	Drive Sleeve	Steel	AISI 1023
7	Stem Nut	Bronze	ASTM B584 C86700	17	Actuator Gasket	Rubber	NBR	26	Cover Bushing	Bronze	ASTM B584 C86700
9	O-ring	Rubber	NBR	18	Socket Head Bolt	Alloy Steel	Alloy Steel	27	Extension Bushing	Bronze	ASTM B584 C86700
10	Hex Head Bolt	Stainless Steel	ASTM F593-304	19	O-ring	Rubber	NBR	28	Thrust Bearing (18"-24")	Delrin	Delrin

C515 NON-RISING RESILIENT SEATED GATE VALVE

FLANGED ENDS WITH BEVEL GEARING

SIZES 14"-24"

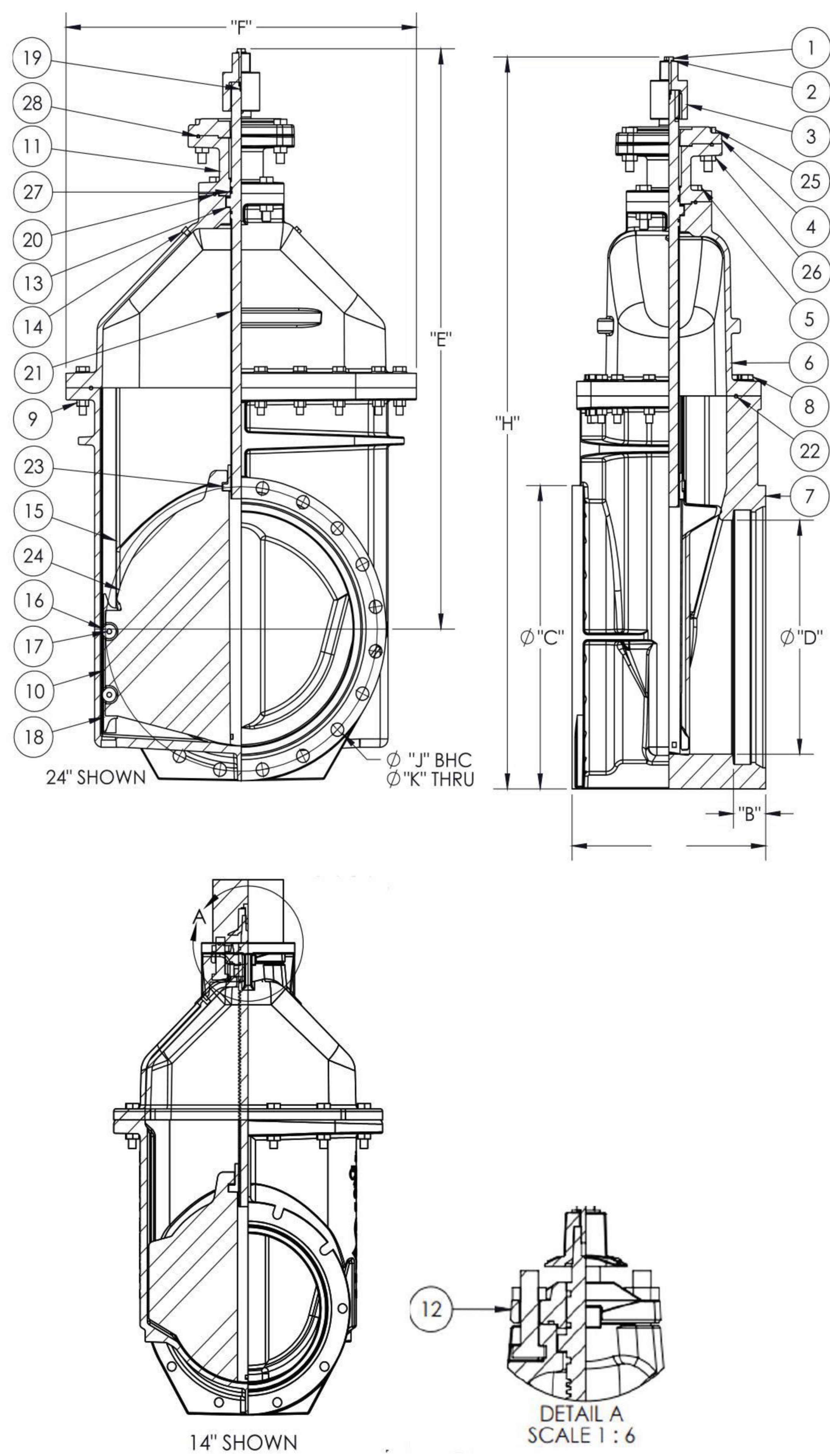


PARTS LIST				PARTS LIST				PARTS LIST		
No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	ASTM DESIGNATION
1	Body	Ductile Iron	ASTM A536 GR 65-45-12	11	Hex Nut	Stainless Steel	ASTM F593-304	20	Hex Bolt	ASTM F593-304
2	Cover	Ductile Iron	ASTM A536 GR 65-45-12	12	Extension	Ductile Iron	ASTM A536 65-45-12	21	Hex Nut	ASTM F593-304
3	Wedge	Ductile Iron / Rubber EPDM	ASTM A536 GR 65-45-12 / EPDM	13	O-ring	Rubber	NBR	22	Key	Steel
4	Wedge Cap (18"-24")	Delrin	Delrin	14	Hex Head Bolt	Stainless Steel	ASTM F593-304	23	OP Nut	ASTM A536 65-45-12
5	O-ring	Rubber	NBR	15	Actuator - 3:1 (18"-24") 2:1 (14"-16")			24	Pipe Plug	Steel
6	Stem	Bronze	ASTM B584 C86700	16	Adapter Plate	Ductile Iron	ASTM A536 GR 65-45-12	25	Drive Sleeve	AISI 1023
7	Stem Nut	Bronze	ASTM B584 C86700	17	Actuator Gasket	Rubber	NBR	26	Cover Bushing	ASTM B584 C86700
9	O-ring	Rubber	NBR	18	Socket Head Bolt	Alloy Steel	Alloy Steel	27	Extension Bushing	ASTM B584 C86700
10	Hex Head Bolt	Stainless Steel	ASTM F593-304	19	O-ring	Rubber	NBR	28	Thrust Bearing (18"-24")	Delrin

C515 NON-RISING RESILIENT SEATED GATE VALVE

MECHANICAL JOINT

SIZES 2"-24"



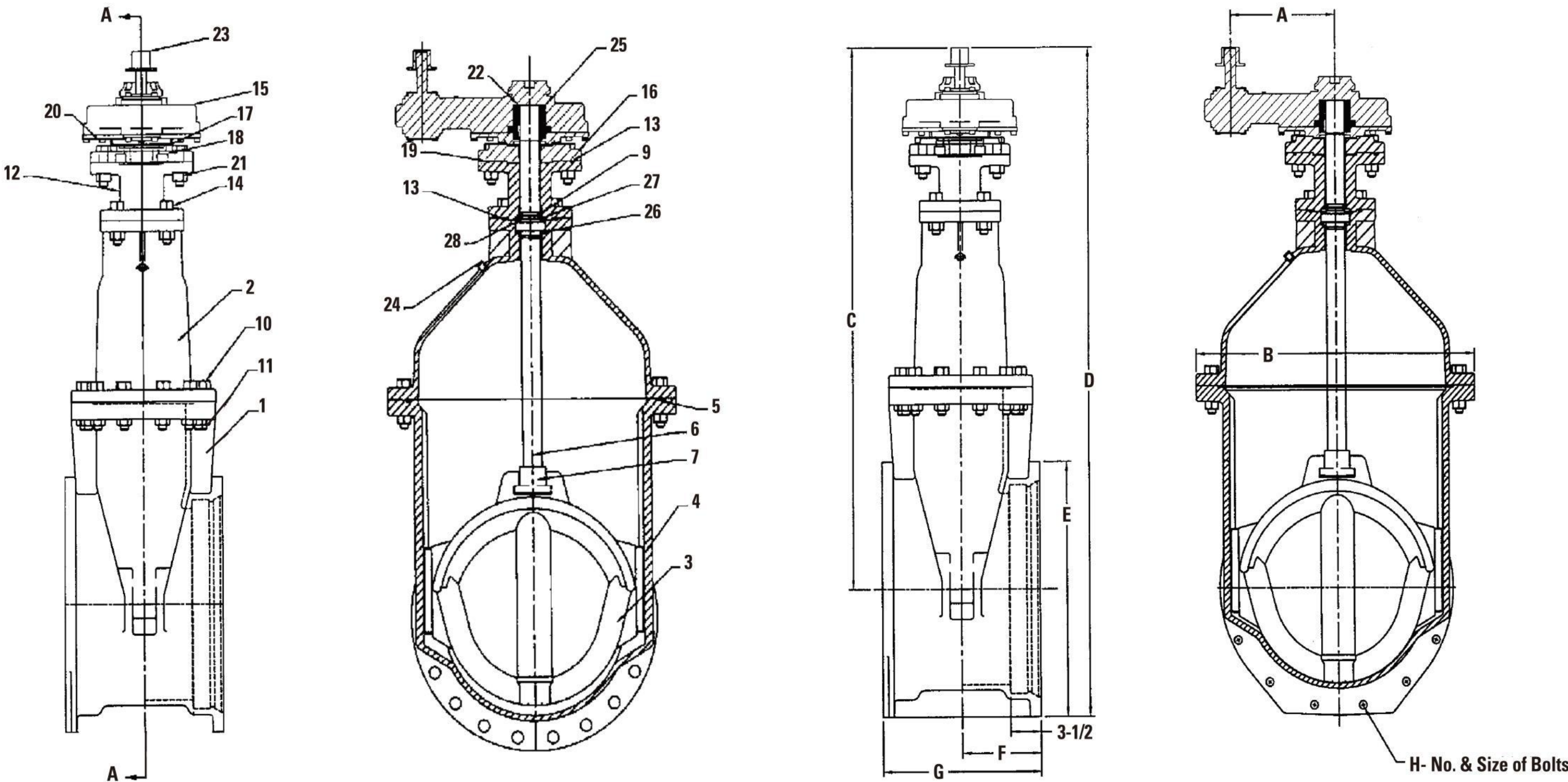
PARTS LIST		
SIZE	A	B
1	Bolt	GR 2 ZN SAE J429
2	Washer	GR 2 ZN SAE J429
3	OP Nut	Grey Iron ASTM A126 Class B
4	Adaptor Plate (18"-24")	Ductile Iron ASTM A536 70-50-05
5	Hex Head Bolt	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600
6	Cover	Ductile Iron ASTM A536 70-50-05
7	Body	Ductile Iron ASTM A536 70-50-05
8	Hex Head Bolt	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600
9	Hex Nut	GR 2 ZN SAE J429 / ASTM F593 S30400/S31600
10	Wedge Cover (18"-20")	Delrin
11	Extension (18"-24")	Ductile Iron ASTM A536 70-50-05
12	Stuffing Box (2"-16")	Ductile Iron ASTM A536 70-50-05
13	Thrust Washer	Delrin
14	Pipe Plug (14"-24")	18-8SS
15	Track (24")	AL Bronze ASTM B148 C95400
16	Roller (24")	Copper Alloy ASTM B584 C95400
17	Pin (24")	316 Stainless Steel
18	Scraper (24")	Copper Alloy ASTM B584 C95400
19	Square Key (18"-24")	GR 2 ZN SAE J429
20	O-Ring	EPDM
21	Stem	Manganese Bronze ASTM B584 C86700 / 304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / NDZ B763 C99500 (2"-12")
		Manganese Bronze ASTM B584 C86200 / 304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / NDZ B763 C99500 (14"-24")
22	O-Ring	EPDM
23	Stem Nut	Manganese Bronze ASTM B584 C86700 (2"-12")
		Copper Alloy ASTM B584 C87850 (14"-24")
24	Wedge	Ductile Iron ASTM A536 70-50-05 / EPDM Rubber
25	Ind. Post Plate Hex Bolts	ASTM F593 S30400
26	Ind. Post Plate Hex Nuts	ASTM F594 S30400
27	Stem O-Ring	EPDM
28	Ind. Post Plate O-Ring	EPDM

DIMENSIONS										
SIZE	A	B	C	D	E	F	H	J	K	No. Turns to Open
2	8-1/4"	2-1/2"	4-1/2"	2"	10-7/8"	6"	14-7/16"	4-3/4"	5/8" x 2	6-1/2
3	8-1/2"	2-1/2"	7-3/4"	3"	12-3/8"	7-1/2"	17"	6-1/8"	5/8" x 4	10
4	9-1/2"	2-1/2"	9-1/8"	4-1/4"	14-3/4"	9"	19-3/4"	7-1/2"	3/4" x 4	13
6	10-1/2"	2-1/2"	11-1/8"	6-1/4"	19"	11-3/8"	24-5/16"	9-5/8"	3/4" x 6	19
8	13-1/8"	2-1/2"	13-1/8"	8-1/4"	22-1/2"	13-1/2"	29-11/16"	11-3/4"	3/4" x 6	25
10	15-1/2"	2-1/2"	15-1/2"	10-1/4"	26-1/2"	16"	34-1/2"	14"	3/4" x 8	31
12	16"	2-5/8"	18"	12-1/4"	30"	19"	39"	16"	3/4" x 8	37
14	17"	3-1/2"	20-1/4"	14-1/4"	38-3/4"	26-11/16"	48-1/2"	18-3/4"	3/4" x 10	52
16	17"	3-1/2"	22-1/2"	16-1/4"	37-3/4"	26-11/16"	48-5/8"	21"	3/4" x 12	52
18	18-3/4"	3-1/2"	24-3/4"	18-1/4"	57-1/16"	32-1/4"	68-13/16"	23-1/4"	7/8" x 12	64
20	18"	3-1/2"	27"	20-1/4"	56-1/4"	32-1/4"	69-3/8"	25"-1/2	7/8" x 14	64
24	20"	3-1/2"	32"	24-1/4"	60-1/16"	38"	76-1/16"	29-1/2"	3/4" x 16	88

C515 NON-RISING RESILIENT SEATED GATE VALVE

MECHANICAL JOINT WITH SPUR GEARING

SIZES 14"-24"



DIMENSIONS								
SIZE	A	B	C	D	E	F	G	H
14	8	26-11/16	52-1/8	62-1/2	20-1/4	8-1/2	17	3/4" x 10
16	8	26-11/16	51-1/8	62-1/2	22-1/2	8-1/2	17	3/4" x 12
18	12	32-1/4	58	70-1/2	24-3/4	9	18	7/8" x 12
20	12	32-1/4	57	70-1/2	27	9	18	7/8" x 14
24	12	38	62-5/8	78-1/4	31-1/4	10-1/2	21	3/4" x 16

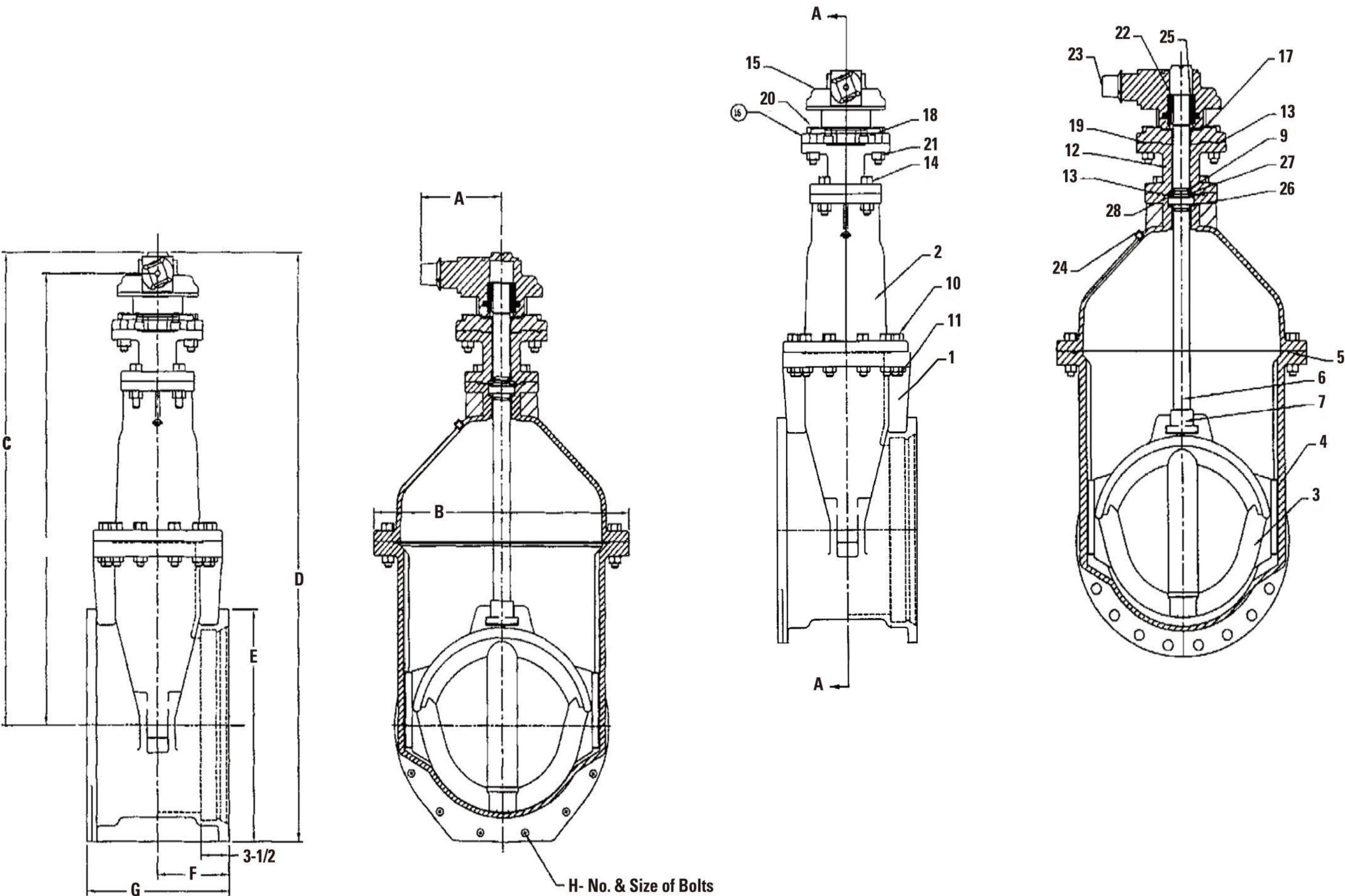
30" & larger sizes require gearing.
24" are now furnished with rollers, tracks, and scrapers.

PARTS LIST				PARTS LIST				PARTS LIST			
No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION
1	Body	Ductile Iron	ASTM A536 GR 65-45-12	11	Hex Nut	Stainless Steel	ASTM F593-304	20	Hex Bolt	Stainless Steel	ASTM F593-304
2	Cover	Ductile Iron	ASTM A536 GR 65-45-12	12	Extension	Ductile Iron	ASTM A536 65-45-12	21	Hex Nut	Stainless Steel	ASTM F593-304
3	Wedge	Ductile Iron / Rubber EPDM	ASTM A536 GR 65-45-12 / EPDM	13	O-ring	Rubber	NBR	22	Key	Steel	
4	Wedge Cap (18"-24")	Delrin	Delrin	14	Hex Head Bolt	Stainless Steel	ASTM F593-304	23	OP Nut	Ductile Iron	ASTM A536 65-45-12
5	O-ring	Rubber	NBR	15	Actuator - 3:1 (18"-24") 2:1 (14"-16")			24	Pipe Plug	Steel	Steel
6	Stem	Bronze	ASTM B584 C86700	16	Adapter Plate	Ductile Iron	ASTM A536 GR 65-45-12	25	Drive Sleeve	Steel	AISI 1023
7	Stem Nut	Bronze	ASTM B584 C86700	17	Actuator Gasket	Rubber	NBR	26	Cover Bushing	Bronze	ASTM B584 C86700
9	O-ring	Rubber	NBR	18	Socket Head Bolt	Alloy Steel	Alloy Steel	27	Extension Bushing	Bronze	ASTM B584 C86700
10	Hex Head Bolt	Stainless Steel	ASTM F593-304	19	O-ring	Rubber	NBR	28	Thrust Bearing (18"-24")	Delrin	Delrin

C515 NON-RISING RESILIENT SEATED GATE VALVE

MECHANICAL JOINT WITH BEVEL GEARING

SIZES 14"-24"



DIMENSIONS									
SIZE	A	B	C	D	E	F	G	H	J
14	9-1/8	26-11/16	48-5/8	59	20-1/4	8-1/2	17	3/4" x 10	46-5/8
16	9-1/8	26-11/16	47-5/8	59	22-1/2	8-1/2	17	3/4" x 12	45-5/8
18	10-1/8	32-1/4	55-3/4	68-1/4	24-3/4	9-5/32	18	7/8" x 12	53-3/4
20	10-1/8	32-1/4	54-3/4	68-1/4	27	9-5/32	18	7/8" x 14	52-3/4
24	10-1/8	38	59-7/8	75-1/8	31-1/2	9-1/2	19	3/4" x 16	57-3/8

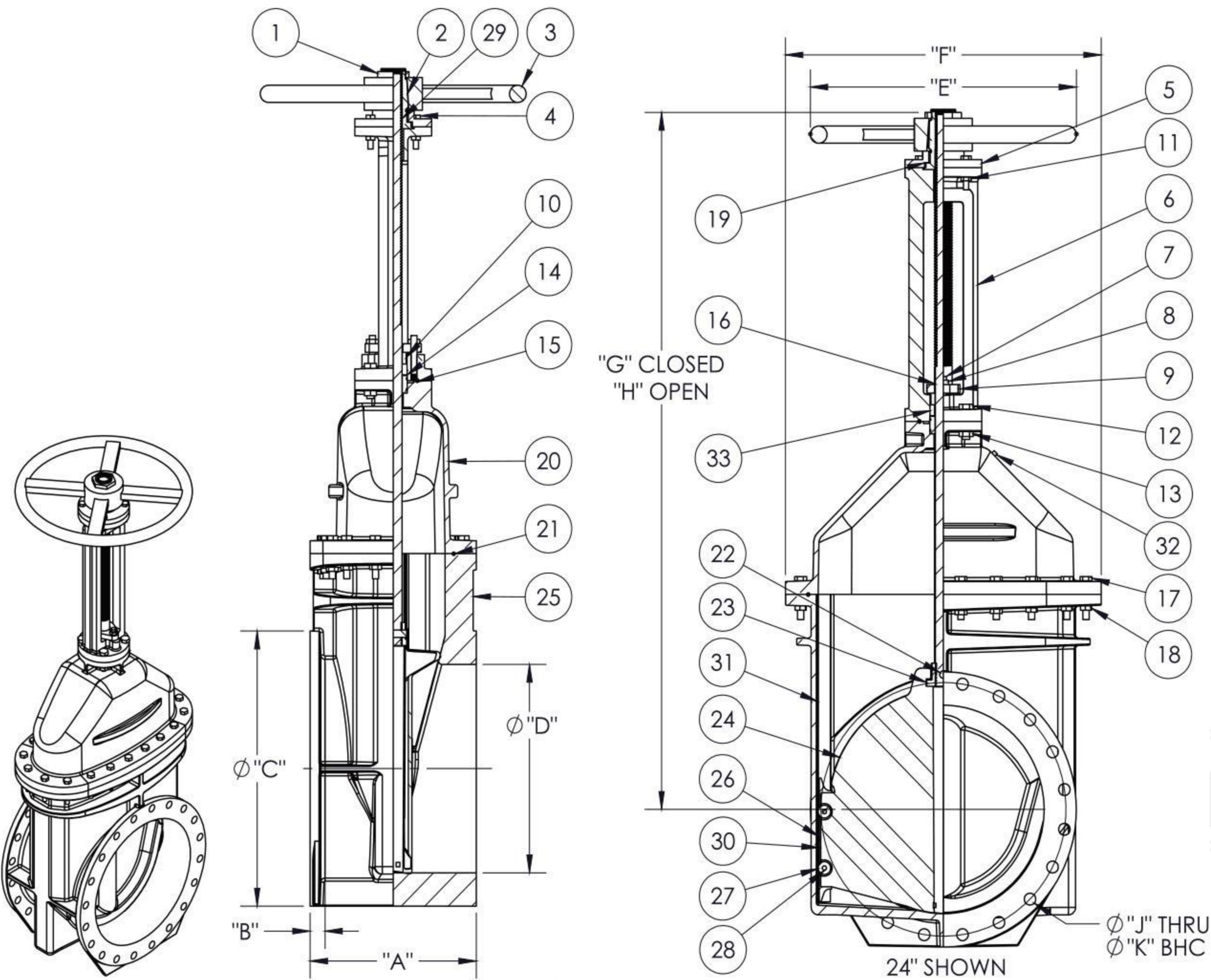
30" & larger sizes require gearing.
24" are furnished with rollers, tracks, and scrapers.

PARTS LIST				PARTS LIST				PARTS LIST			
No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION	No.	PART	MATERIAL	ASTM DESIGNATION
1	Body	Ductile Iron	ASTM A536 GR 65-45-12	11	Hex Nut	Stainless Steel	ASTM F593-304	20	Hex Bolt	Stainless Steel	ASTM F593-304
2	Cover	Ductile Iron	ASTM A536 GR 65-45-12	12	Extension	Ductile Iron	ASTM A536 65-45-12	21	Hex Nut	Stainless Steel	ASTM F593-304
3	Wedge	Ductile Iron / Rubber EPDM	ASTM A536 GR 65-45-12 / EPDM	13	O-ring	Rubber	NBR	22	Key	Steel	
4	Wedge Cap (18"-24")	Delrin	Delrin	14	Hex Head Bolt	Stainless Steel	ASTM F593-304	23	OP Nut	Ductile Iron	ASTM A536 65-45-12
5	O-ring	Rubber	NBR	15	Actuator - 3:1 (18"-24") 2:1 (14"-16")			24	Pipe Plug	Steel	Steel
6	Stem	Bronze	ASTM B584 C86700	16	Adapter Plate	Ductile Iron	ASTM A536 GR 65-45-12	25	Drive Sleeve	Steel	AISI 1023
7	Stem Nut	Bronze	ASTM B584 C86700	17	Actuator Gasket	Rubber	NBR	26	Cover Bushing	Bronze	ASTM B584 C86700
9	O-ring	Rubber	NBR	18	Socket Head Bolt	Alloy Steel	Alloy Steel	27	Extension Bushing	Bronze	ASTM B584 C86700
10	Hex Head Bolt	Stainless Steel	ASTM F593-304	19	O-ring	Rubber	NBR	28	Thrust Bearing (18"-24")	Delrin	Delrin

C515 OS&Y RESILIENT SEATED GATE VALVE

FLANGED ENDS

SIZES 2"-24"



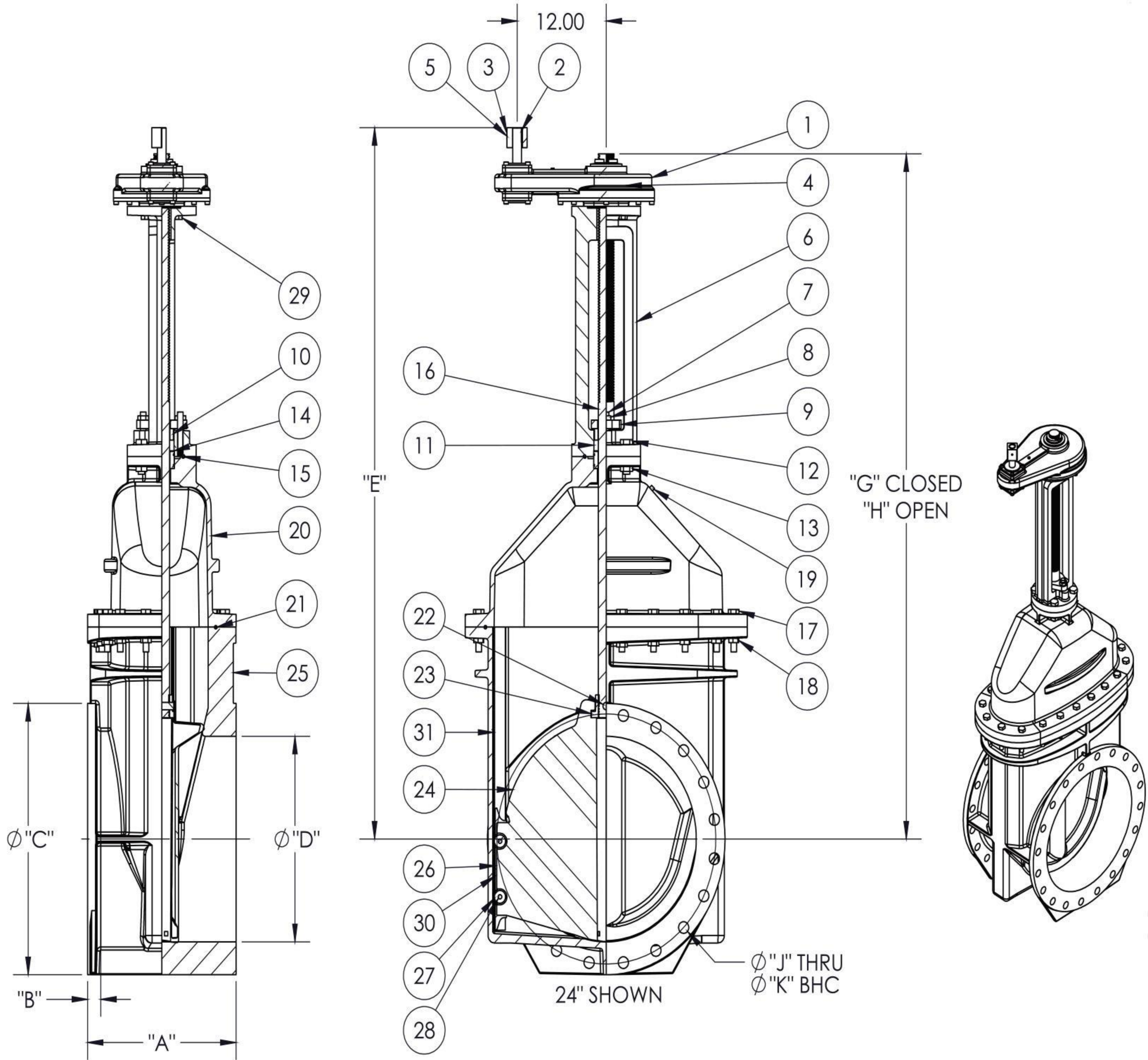
PARTS LIST		
SIZE	DESCRIPTION	MATERIAL
1	Hold Down Nut	Bronze ASTM B584 C87850 / C57610 (2"-12")
		Bronze ASTM B584 C83600 (14"-24")
2	Yoke Nut	Bronze ASTM B584 C86700 (2"-12")
		Bronze ASTM B584 C83600 (14"-24")
3	Handwheel	Ductile Iron ASTM A536 70-50-05 (2"-12")
		Gray Iron ASTM A126 Class B (14"-24")
4	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600
5	Adapter (14"-24")	Gray Iron ASTM A126 Class B
6	Yoke	Ductile Iron ASTM A536 70-50-05 (2"-12")
		Gray Iron ASTM A126 Class B (14"-24")
7	Stud (14"-24")	ASTM F593 S30400 / S31600
8	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
9	Follower Plate (14"-16")	Gray Iron ASTM A126 Class B
10	Packing Gland	Ductile Iron ASTM A536 70-50-05 (2"-12")
		Bronze ASTM B584 C83600 (14"-24")
11	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
12	Hex Cap Screw	GR 2 ZN SAE J429 / 304SS ASTM 18-8SS
13	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
14	Bushing (14"-24")	ZN A307 Grade B / ASTM F593 S30400 / S31600
15	Yoke O-Ring	Buna-N ASTM D2000 (2"-12")
		EPDM (14"-24")
16	Stem	304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / ECO Brass ASTM B371 C69300 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (2"-12")
		304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (14"-24")
17	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600
18	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
19	Flat Washer	ZN A307 Grade B / ASTM F593 S30400 / S31600
20	Cover	Ductile Iron ASTM A536 70-50-05 (2"-12")
		Ductile Iron ASTM A536 65-45-12 (14"-24")
21	Cover O-Ring	Buna-N ASTM D2000 (2"-12")
		EPDM (14"-24")
22	Stem O-Ring	Buna-N ASTM D2000 (2"-12")
		EPDM (14"-24")
23	Stem Nut	Bronze ASTM B584 CDA 844 (2"-12")
		Bronze ASTM B584 C87610 / Bronze ASTM B584 C87850 / Bronze ASTM B763 C99500 (NDZ) (14"-20")
		Bronze ASTM B584 C83600 (24")
24	Wedge	Ductile Iron ASTM A584 70-50-05 & EPDM (2"-12")
		Ductile Iron ASTM A536 65-45-12 & EPDM (14"-24")
25	Body-Flanged Type	Ductile Iron ASTM A536 65-45-12 (2"-24")
26	Scraper (24")	Bronze ASTM B584 C83600
27	Roller (24")	Bronze ASTM B584 C83600
28	Pin (24")	Stainless Steel AISI 303
29	Square Key (18"-24")	GR 2 ZN ZAE J429
30	Wedge Cap (18"-20")	Delrin
31	Track (24")	Stainless Steel AISI 316
32	Pipe Plug (14"-24")	18-8SS
33	Packing	Braided, Lubricated (Non-Asbestos)

DIMENSIONS												
SIZE	A	B	C	D	E	F	G	H	J	K	No. Turns to Open	Weight (lbs.)
2	7"	5/8"	6"	2"	7-1/4"	6"	13-3/32"	15-7/8"	5/8" x 4	4-3/4"	6-1/2	42.10
2-1/2	7-1/2"	11/16"	7"	2-1/2"	7-1/4"	7"	13-7/8"	16-3/8"	5/8" x 4	5-1/2"	8	52.00
3	8"	3/4"	7-1/2"	3"	10"	7-1/2"	15-5/8"	18-7/8"	5/8" x 4	6"	10	67.14
4	9"	15/16"	9"	4-1/4"	10"	9"	18-1/4"	22-3/4"	5/8" x 4	7-1/2"	13-1/2	91.85
6	10-1/2"	1"	11"	6-1/4"	12"	11-3/8"	23-3/4"	30-1/8"	3/4" x 8	9-1/2"	19-1/2	140.67
8	11-1/2"	1-1/8"	13-1/2"	8-1/4"	14"	13-1/2"	29-1/4"	37-3/4"	3/4" x 8	11-3/4"	25-1/2	212.60
10	13"	1-3/16"	16"	10-1/4"	18"	16"	35-3/8"	45-3/4"	7/8" x 12	14-1/4"	31-1/2	368.48
12	14"	1-1/4"	19"	12-1/4"	18"	19"	40-5/8"	53-1/8"	7/8" x 12	17"	37-3/4	479.41
14	15"	1-3/8"	21-1/16"	14-1/4"	22"	26-11/16"	59-3/4"	74-3/4"	1" x 12	18-3/4"	52	670.00
16	16"	1-7/16"	23-1/2"	16-1/4"	22"	26-11/16"	59-3/4"	74-3/4"	1" x 16	21-1/4"	52	735.00
18	17"	1-9/16"	25"	18-1/4"	24"	32-1/4"	71-1/4"	92-9/16"	1-1/4" x 16	22-3/4"	64	1100
20	18"	1-11/16"	27-1/2"	20-1/4"	24"	32-1/4"	67-3/8"	94-3/8"	1-1/4" x 20	25"	64	1325
24	20"	1-7/8"	32"	24-1/4"	32"	38"	81-3/8"	110-5/8"	1-3/8" x 20	29-1/2"	88	1900

C515 OS&Y RESILIENT SEATED GATE VALVE

FLANGED ENDS WITH SPUR GEARING

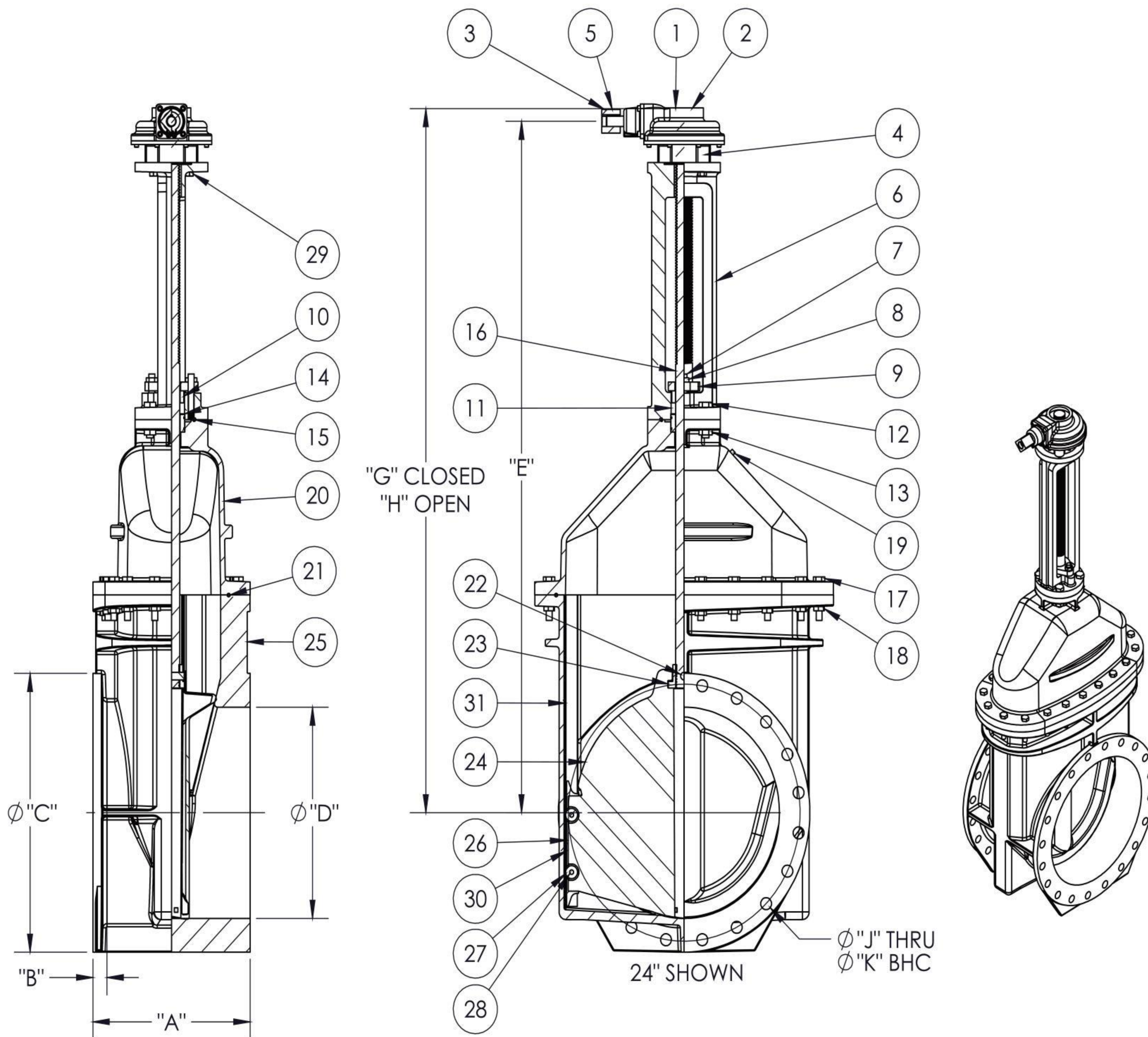
SIZES 14"-24"



DIMENSIONS										No. Turns to Open	Weight (lbs.)
SIZE	A	B	C	D	E	G	H	J	K		
14	15"	1-3/8"	21-1/16"	14-1/4"	64-1/2"	59-3/4"	74-3/4"	1" X 12	18-3/4"	52	670.00
16	16"	1-7/16"	23-1/2"	16-1/4"	64-1/2"	59-3/4"	74-3/4"	1" X 16	21-1/4"	52	735.00
18	17"	1-9/16"	25"	18-1/4"	74-5/8"	71-1/4"	92-9/16"	1-1/4" X 16	22-3/4"	64	1100
20	18"	1-11/16"	27-1/2"	20-1/4"	74-5/8"	67-3/8"	94-3/8"	1-1/4" X 20	25"	64	1325
24	20"	1-7/8"	32"	24-1/4"	83-1/2"	81-3/8"	110-5/8"	1-3/8" X 20	29-1/2"	88	1900

PARTS LIST			PARTS LIST			PARTS LIST		
No.	PART	MATERIAL	No.	PART	MATERIAL	No.	PART	MATERIAL
1	EXEEO IS7	Bronze ASTM B584 C83600	12	Hex Cap Screw	GR 2 ZN SAE J429 / 304SS ASTM 18-8SS	23	Stem Nut	Bronze ASTM B584 C87610 / Bronze ASTM B584 C87850 / Bronze ASTM B763 C99500 (NDZ) (14"-20")
2	Square Key	GR 2 ZN SAE J429	13	Hex Nut	ZN A307 Grade B / ASTM F593 S30400/S31600			Bronze ASTM B584 C83600 (24")
3	OP Nut	Gray Iron ASTM A126 Class B	14	Bushing	ZN A307 Grade B / ASTM F593 S30400/S31600			Ductile Iron ASTM A536 Grade 65-45-12
4	Output Sleeve	Aluminum Bronze ASTM B505 C95800	15	Yoke O-ring	EPDM			Ductile Iron ASTM A536 Grade 65-45-12
5	Roll Pin	Stainless Steel	16	Stem	304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / Silicon Bronze "A" (Everdur) ASTM B98 C65500	24	Wedge	Bronze ASTM B584 C83600
6	Yoke	Gray Iron ASTM A126 Class B	17	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400/S31600	25	Body-Flanged Type	Bronze ASTM B584 C83600
7	Stud	ASTM F593 S30400/S31600	18	Hex Nut	ZN A307 Grade B / ASTM F593 S30400/S31600	26	Scraper (24")	Bronze ASTM B584 C83600
8	Hex Nut	ZN A307 GRADE B / ASTM F593 S30400/S31600	19	Pipe Plug	18-8SS	27	Roller (24")	Stainless Steel AISI 303
9	Follower Plate (14"-16")	Gray Iron ASTM A126 Class B	20	Cover	Ductile Iron ASTM A536 65-45-12 ASTM B16 Alloy 306	28	Pin (24")	ZN A307 Grade B / ASTM F593 S30400 / S31600
10	Packing Gland	Bronze ASTM B584 C83600	21	Cover O-Ring	EPDM	29	Hex Cap Screw	Delrin
11	Packing	Braided, Lubricated (Non-Asbestos) Fiber	22	Stem O-Ring	EPDM	30	Wedge Cap (18"-20")	Stainless Steel AISI 316
						31	Track (24")	

C515 OS&Y RESILIENT SEATED GATE VALVE FLANGED ENDS WITH BEVEL GEARING SIZES 14"-24"



DIMENSIONS										No. Turns to Open
SIZE	A	B	C	D	E	G	H	J	K	
14	15"	1-3/8"	21-1/16"	14-1/4"	59-7/8"	59-3/4"	74-3/4"	1" X 12	18-3/4"	52
16	16"	1-7/16"	23-1/2"	16-1/4"	59-7/8"	59-3/4"	74-3/4"	1" X 16	21-1/4"	52
18	17"	1-9/16"	25"	18-1/4"	70-1/8"	71-1/4"	92-9/16"	1-1/4" X 16	22-3/4"	64
20	18"	1-11/16"	27-1/2"	20-1/4"	70-1/8"	67-3/8"	94-3/8"	1-1/4" X 20	25"	64
24	20"	1-7/8"	32"	24-1/4"	78-7/8"	81-3/8"	110-5/8"	1-3/8" X 20	29-1/2"	88

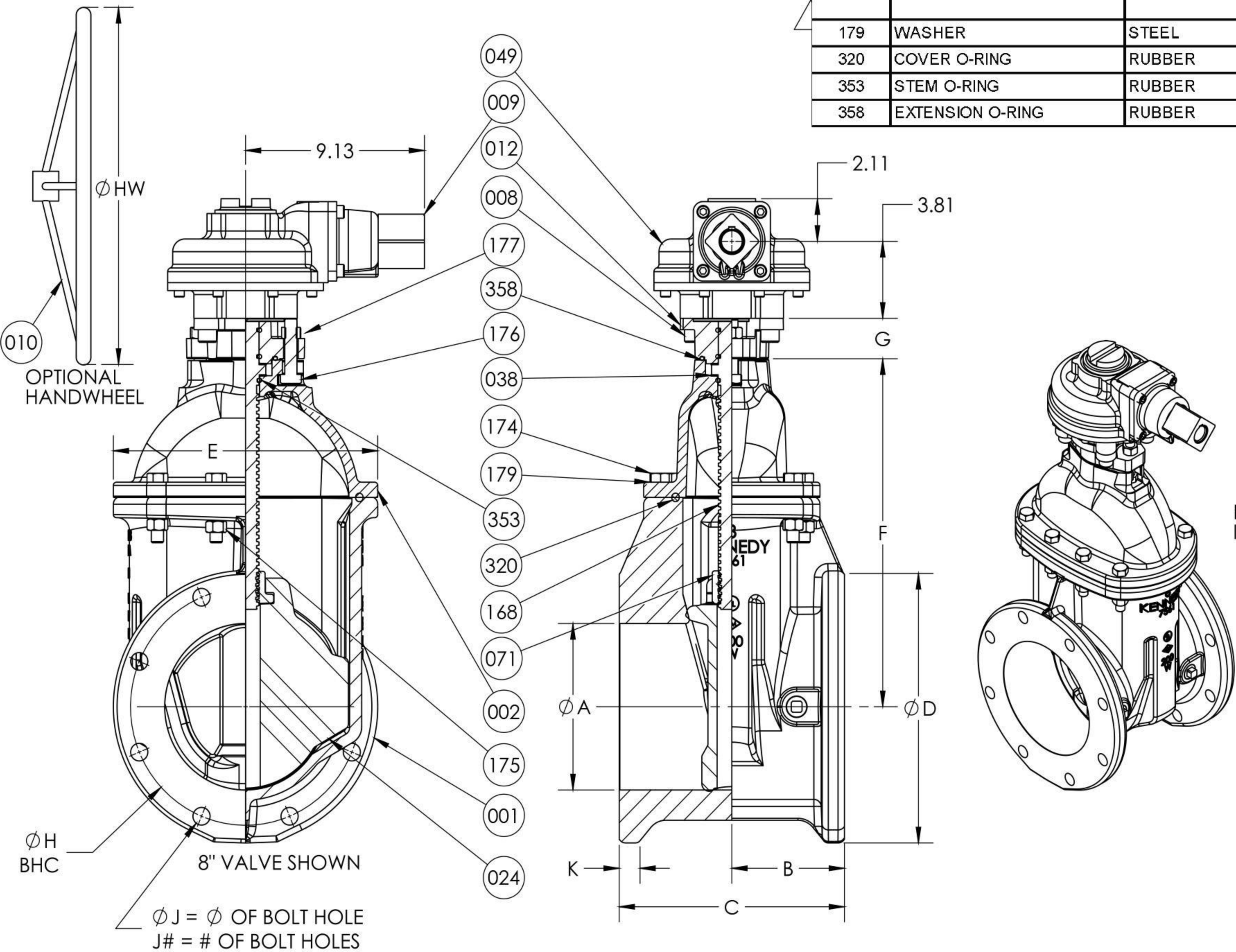
PARTS LIST			PARTS LIST			PARTS LIST		
No.	PART	MATERIAL	No.	PART	MATERIAL	No.	PART	MATERIAL
1	EXEECO IB7	Bronze ASTM B584 C83600	12	Hex Cap Screw	GR 2 ZN SAE J429 / 304SS ASTM 18-8SS	23	Stem Nut	Bronze ASTM B584 C87610 / Bronze ASTM B584 C87850 /
2	Square Key	GR 2 ZN SAE J429	13	Hex Nut	ZN A307 Grade B / ASTM F593 S30400/S31600			Bronze ASTM B763 C99500 (NDZ) (14"-20")
3	OP Nut	Gray Iron ASTM A126 Class B	14	Bushing	ZN A307 Grade B / ASTM F593 S30400/S31600			Bronze ASTM B584 C83600 (24")
4	Output Sleeve	Aluminum Bronze ASTM B505 C95800	15	Yoke O-ring	EPDM	24	Wedge	Ductile Iron ASTM A536 Grade 65-45-12
5	Roll Pin	Stainless Steel	16	Stem	304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / Silicon Bronze "A" (Everdur) ASTM B98 C65500	25	Body-Flanged Type	Ductile Iron ASTM A536 Grade 65-45-12
6	Yoke	Gray Iron ASTM A126 Class B				26	Scraper (24")	Bronze ASTM B584 C83600
7	Stud	ASTM F593 S30400/S31600	17	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400/S31600	27	Roller (24")	Bronze ASTM B584 C83600
8	Hex Nut	ZN A307 GRADE B / ASTM F593 S30400/S31600	18	Hex Nut	ZN A307 Grade B / ASTM F593 S30400/S31600	28	Pin (24")	Stainless Steel AISI 303
9	Follower Plate (14"-16")	Gray Iron ASTM A126 Class B	19	Pipe Plug	18-8SS	29	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600
			20	Cover	Ductile Iron ASTM A536 65-45-12 ASTM B16 Alloy 306	30	Wedge Cap (18"-20")	Delrin
10	Packing Gland	Bronze ASTM B584 C83600	21	Cover O-Ring	EPDM	31	Track (24")	Stainless Steel AISI 316
11	Packing	Braided, Lubricated (Non-Asbestos) Fiber	22	Stem O-Ring	EPDM			

NON-RISE RESILIENT SEATED GATE VALVE

FLANGED ENDS, WITH BEVEL GEAR

SIZE 3"-12"

ITEM	DESCRIPTION	MATERIAL	MATERIAL SPECIFICATION
001	BODY	GRAY IRON	ASTM A126 CLASS B
		DUCTILE IRON	ASTM A536 65-45-12
002	COVER	GRAY IRON	ASTM A126 CLASS B
		DUCTILE IRON	ASTM A536 65-45-12
008	GEAR BOLTS	STAINLESS STEEL	ASTM F593-304 (STANDARD)
			ASTM F593-316 (OPTIONAL)
009	2" SQUARE OP NUT	STEEL	-----
010	HANDWHEEL	STEEL	-----
012	STUFFING BOXW/ GEAR MOUNT	DUCTILE IRON	ASTM A536 65-45-12
024	WEDGE	DUCTILE IRON/RUBBER	ASTM A536 65-45-12/EPDM
038	THRUST WASHER	DELIN	DELIN
049	BEVEL GEAR	-----	IB5 FA14 2:1 RATIO
071	STEM NUT	BRASS	ASTM B584 C87850
		BRONZE	ASTM B583 C86700 (STANDARD)
		304 SS	----- (OPTIONAL)
		316 SS	----- (OPTIONAL)
174	COVER HEX BOLTS	STAINLESS STEEL	ASTM F593-304 (STANDARD)
			ASTM F593-316 (OPTIONAL)
175	COVER HEX NUTS	STAINLESS STEEL	ASTM F594-304 (STANDARD)
			ASTM F594-316 (OPTIONAL)
176	STUFFING BOX HEX BOLTS	STAINLESS STEEL	ASTM F593-304 (STANDARD)
			ASTM F593-316 (OPTIONAL)
177	STUFFING BOX HEX NUTS	STAINLESS STEEL	ASTM F594-304 (STANDARD)
			ASTM F594-316 (OPTIONAL)
179	WASHER	STEEL	STEEL
320	COVER O-RING	RUBBER	EPDM
353	STEM O-RING	RUBBER	EPDM
358	EXTENSION O-RING	RUBBER	EPDM

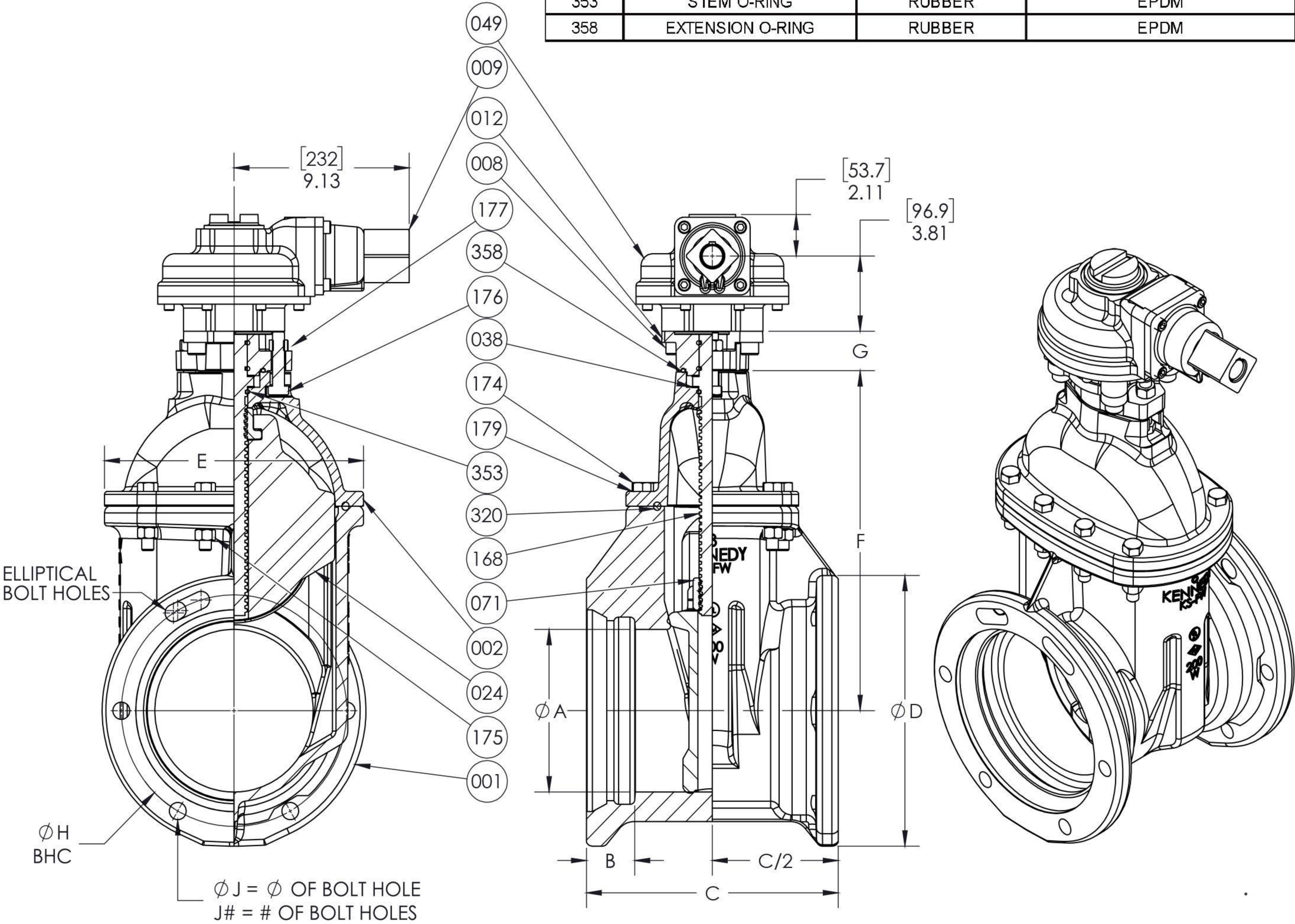


PAINT: HEAT-FUSED EPOXY COATING,
INSIDE AND OUTSIDE

SIZE	ϕA	B	C	ϕD	E	F	G	ϕH	ϕJ	J#	K	HANDWHEEL TYPE	ϕHW	WEIGHT (LBS.)
3	3.00	4.00	8.00	7.50	7.50	8.56	1.75	6.00	.75	4	.75	F300/30	11.8	118
4	4.00	4.50	9.00	9.00	9.00	10.47	1.75	7.50	.75	8	.94	F300/30	11.8	144
6	6.00	5.25	10.50	11.00	11.38	13.44	2.00	9.50	.88	8	1.00	F400/30	15.7	194
8	8.00	5.75	11.50	13.50	13.50	17.25	2.00	11.75	.88	8	1.13	F500/30	19.7	267
10	10.00	6.50	13.00	16.00	16.00	21.12	2.25	14.25	1.00	12	1.19	F600/30	23.6	398
12	12.00	7.00	14.00	19.00	19.00	24.38	2.25	17.00	1.00	12	1.25	F600/30	23.6	479

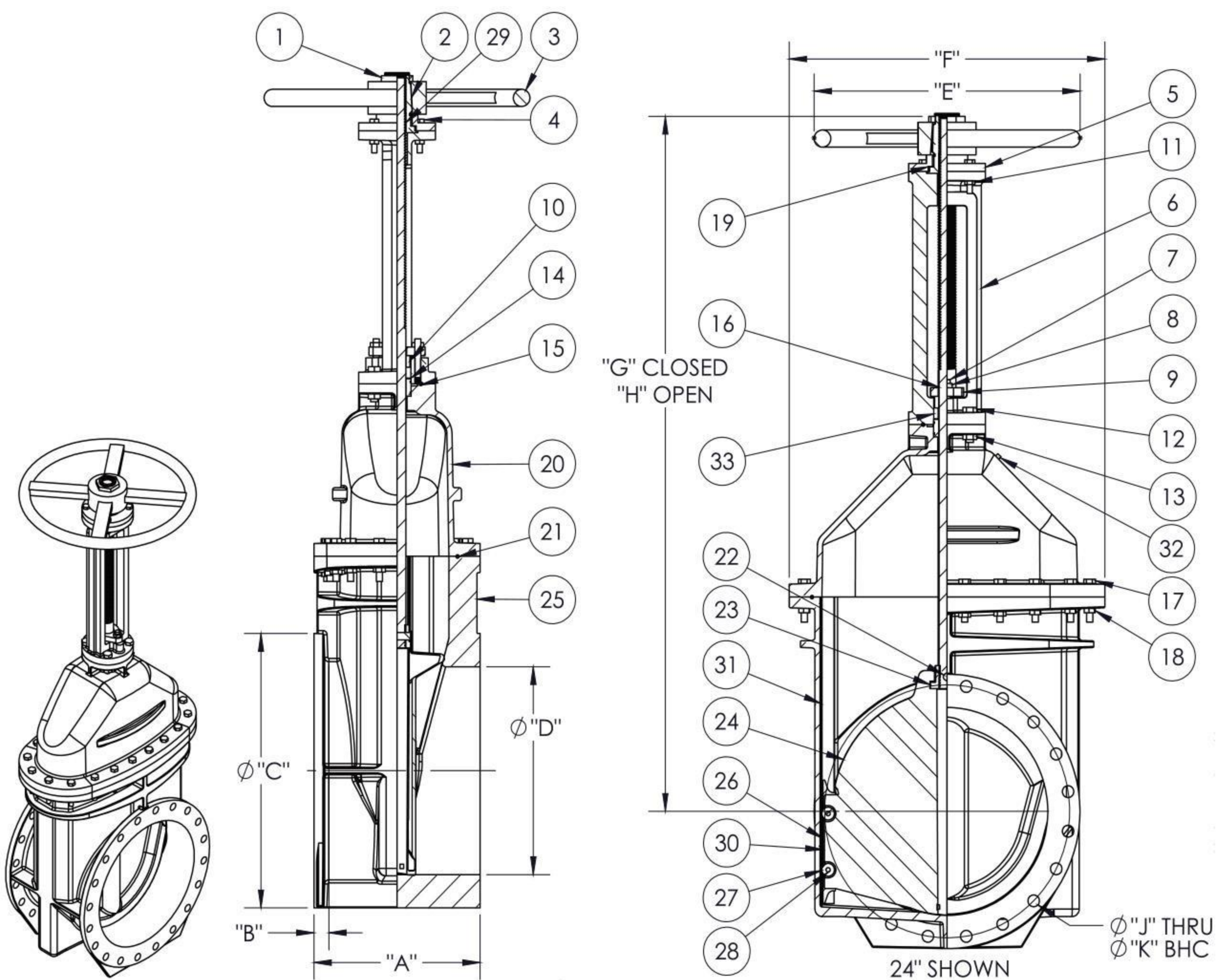
KS-FW NON-RISING STEM MECHANICAL JOINT C509 WITH BEVEL GEAR SIZE 3"-12"

ITEM	DESCRIPTION	MATERIAL	MATERIAL SPECIFICATION
001	BODY - MECHANICAL JOINT	CAST IRON	A126 CLASS B
002	COVER	CAST IRON	A126 CLASS B
008	GEAR BOLTS	STAINLESS STEEL	ASTM F593-304
009	2" SQUARE OP NUT	CAST IRON	A126 CLASS B
012	STUFFING BOXW/ GEAR MOUNT	CAST IRON	ASTM A536 65-45-12
024	WEDGE	DUCTILE IRON/RUBBER	ASTM A536 65-45-12/EPDM
038	THRUST WASHER	DELRIN	DELRIN
049	ROTORK BEVEL GEAR	-----	IB5 FA14 4:1 RATIO
071	STEM NUT	BRASS	ASTM B584 C83600
168	STEM	BRONZE	ASTM B583 C86700
174	COVER HEX BOLTS	STAINLESS STEEL	ASTM F593-304
175	COVER HEX NUTS	STAINLESS STEEL	ASTM F593-304
176	STUFFING BOX HEX BOLTS	STAINLESS STEEL	ASTM F593-304
177	STUFFING BOX HEX NUTS	STAINLESS STEEL	ASTM F593-304
179	WASHER	STEEL	STEEL
320	COVER O-RING	RUBBER	EPDM
353	STEM O-RING	RUBBER	EPDM
358	EXTENSION O-RING	RUBBER	EPDM



SIZE	Ø A	B	C	Ø D	E	F	G	Ø H	Ø J	J#	WEIGHT (LBS.)
3	3.00	2.50	8.50	7.75	7.50	8.56	1.75	6.13	.75	4	90
4	4.25	2.51	9.50	9.13	9.00	10.47	1.75	7.50	.88	4	138
6	6.25	2.51	10.50	11.38	11.38	13.44	2.00	9.63	.88	6	180
8	8.25	2.52	13.13	13.75	13.50	17.25	2.00	11.75	.88	6	256
10	10.25	2.52	15.50	15.75	16.00	21.12	2.25	14.00	.88	8	367
12	12.25	2.66	16.00	18.00	19.00	24.38	2.25	16.25	.88	8	533

NRS RSGV WITH MECHANICAL JOINTS, WITH HAND WHEEL SIZE 2" - 24"



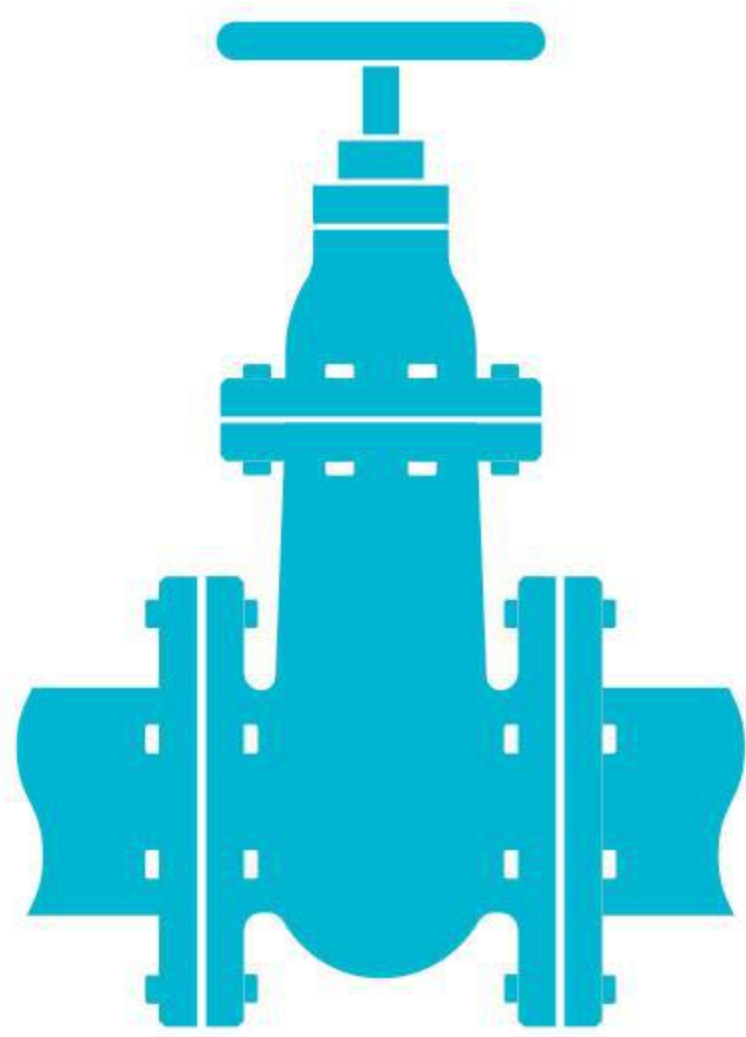
PARTS LIST		
SIZE	DESCRIPTION	MATERIAL
1	Hold Down Nut	Bronze ASTM B584 C87850 / C57610 (2"-12")
		Bronze ASTM B584 C83600 (14"-24")
2	Yoke Nut	Bronze ASTM B584 C86700 (2"-12")
		Bronze ASTM B584 C83600 (14"-24")
3	Handwheel	Ductile Iron ASTM A536 70-50-05 (2"-12")
		Gray Iron ASTM A126 Class B (14"-24")
4	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600
5	Adapter (14"-24")	Gray Iron ASTM A126 Class B
6	Yoke	Ductile Iron ASTM A536 70-50-05 (2"-12")
		Gray Iron ASTM A126 Class B (14"-24")
7	Stud (14"-24")	ASTM F593 S30400 / S31600
8	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
9	Follower Plate (14"-16")	Gray Iron ASTM A126 Class B
10	Packing Gland	Ductile Iron ASTM A536 70-50-05 (2"-12")
		Bronze ASTM B584 C83600 (14"-24")
11	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
12	Hex Cap Screw	GR 2 ZN SAE J429 / 304SS ASTM 18-8SS
13	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
14	Bushing (14-24")	ZN A307 Grade B / ASTM F593 S30400 / S31600
15	Yoke O-Ring	Buna-N ASTM D2000 (2"-12")
		EPDM (14"-24")
16	Stem	304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / ECO Brass ASTM B371 C69300 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (2"-12")
		304SS ASTM A276 S30400 / 316SS ASTM A276 S31600 / Silicon Bronnze "A" (Everdur) ASTM B98 C65500 (14"-24")
17	Hex Cap Screw	ZN A307 Grade B / ASTM F593 S30400 / S31600
18	Hex Nut	ZN A307 Grade B / ASTM F593 S30400 / S31600
19	Flat Washer	ZN A307 Grade B / ASTM F593 S30400 / S31600
20	Cover	Ductile Iron ASTM A536 70-50-05 (2"-12")
		Ductile Iron ASTM A536 65-45-12 (14"-24")
21	Cover O-Ring	Buna-N ASTM D2000 (2"-12")
		EPDM (14"-24")
22	Stem O-Ring	Buna-N ASTM D2000 (2"-12")
		EPDM (14"-24")
23	Stem Nut	Bronze ASTM B584 CDA 844 (2"-12")
		Bronze ASTM B584 C87610 / Bronze ASTM B584 C87850 / Bronze ASTM B763 C99500 (NDZ) (14"-20")
		Bronze ASTM B584 C83600 (24")
24	Wedge	Ductile Iron ASTM A584 70-50-05 & EPDM (2"-12")
		Ductile Iron ASTM A536 65-45-12 & EPDM (14"-24")
25	Body-Flanged Type	Ductile Iron ASTM A536 65-45-12 (2"-24")
26	Scraper (24")	Bronze ASTM B584 C83600
27	Roller (24")	Bronze ASTM B584 C83600
28	Pin (24")	Stainless Steel AISI 303
29	Square Key (18"-24")	GR 2 ZN ZAE J429
30	Wedge Cap (18"-20")	Delrin
31	Track (24")	Stainless Steel AISI 316
32	Pipe Plug (14"-24")	18-8SS
33	Packing	Braided, Lubricated (Non-Asbestos)

DIMENSIONS											
SIZE	A	B	C	D	E	F	H	J	K	No. Turns to Open	Weight (lbs.)
2	8-1/4"	2-1/2"	4-1/2"	2"	10-7/8"	6"	14-7/16"	4-3/4"	5/8" x 2	6-1/2	37.14
3	8-1/2"	2-1/2"	7-3/4"	3"	12-3/8"	7-1/2"	17"	6-1/8"	5/8" x 4	10	58.00
4	9-1/2"	2-1/2"	9-1/8"	4-1/4"	14-3/4"	9"	19-3/4"	7-1/2"	3/4" x 4	13	69.50
6	10-1/2"	2-1/2"	11-1/8"	6-1/4"	19"	11-3/8"	24-5/16"	9-5/8"	3/4" x 6	19	110.00
8	13-1/8"	2-1/2"	13-1/8"	8-1/4"	22-1/2"	13-1/2"	29-11/16"	11-3/4"	3/4" x 6	25	164.00
10	15-1/2"	2-1/2"	15-1/2"	10-1/4"	26-1/2"	16"	34-1/2"	14"	3/4" x 8	31	287.00
12	16"	2-5/8"	18"	12-1/4"	30"	19"	39"	16"	3/4" x 8	37	362.00
14	17"	3-1/2"	20-1/4"	14-1/4"	38-3/4"	26-11/16"	48-1/2"	18-3/4"	3/4" x 10	52	650.00
16	17"	3-1/2"	22-1/2"	16-1/4"	37-3/4"	26-11/16"	48-5/8"	21"	3/4" x 12	52	720.00
18	18-3/4"	3-1/2"	24-3/4"	18-1/4"	57-1/16"	32-1/4"	68-13/16"	23-1/4"	7/8" x 12	64	1250.00
20	18"	3-1/2"	27"	20-1/4"	56-1/4"	32-1/4"	69-3/8"	25"-1/2	7/8" x 14	64	1325.00
24	20"	3-1/2"	32"	24-1/4"	60-1/16"	38"	76-1/16"	29-1/2"	3/4" x 16	88	1700.00



MPI PRODUCT LINE

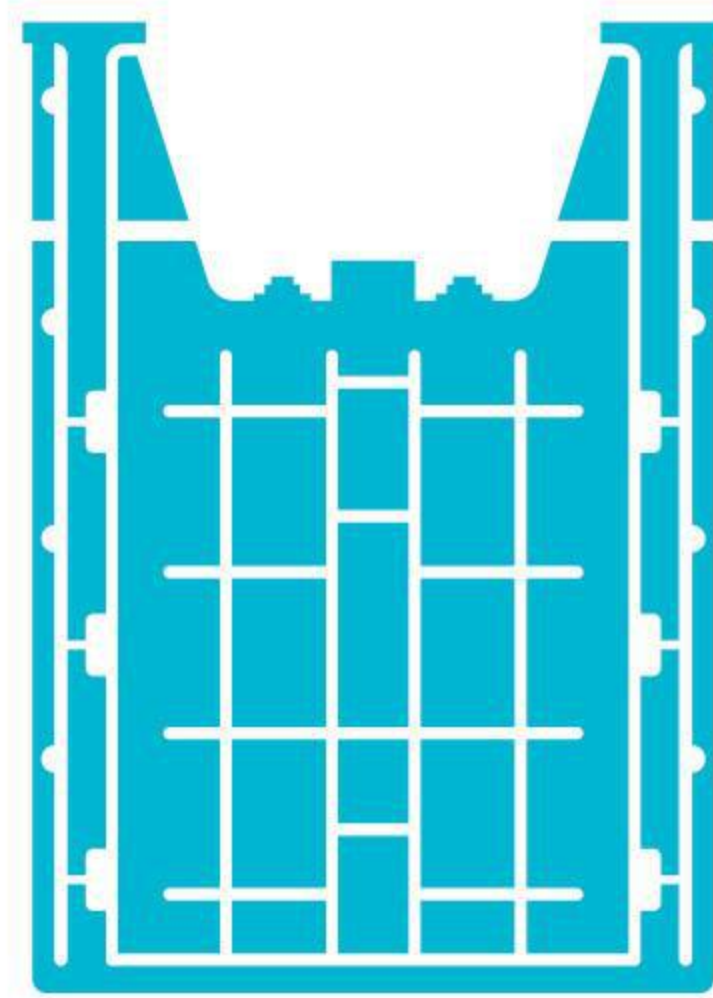
VALVES • GATES • PIPE & FITTINGS



VALVES

SOLUTIONS:

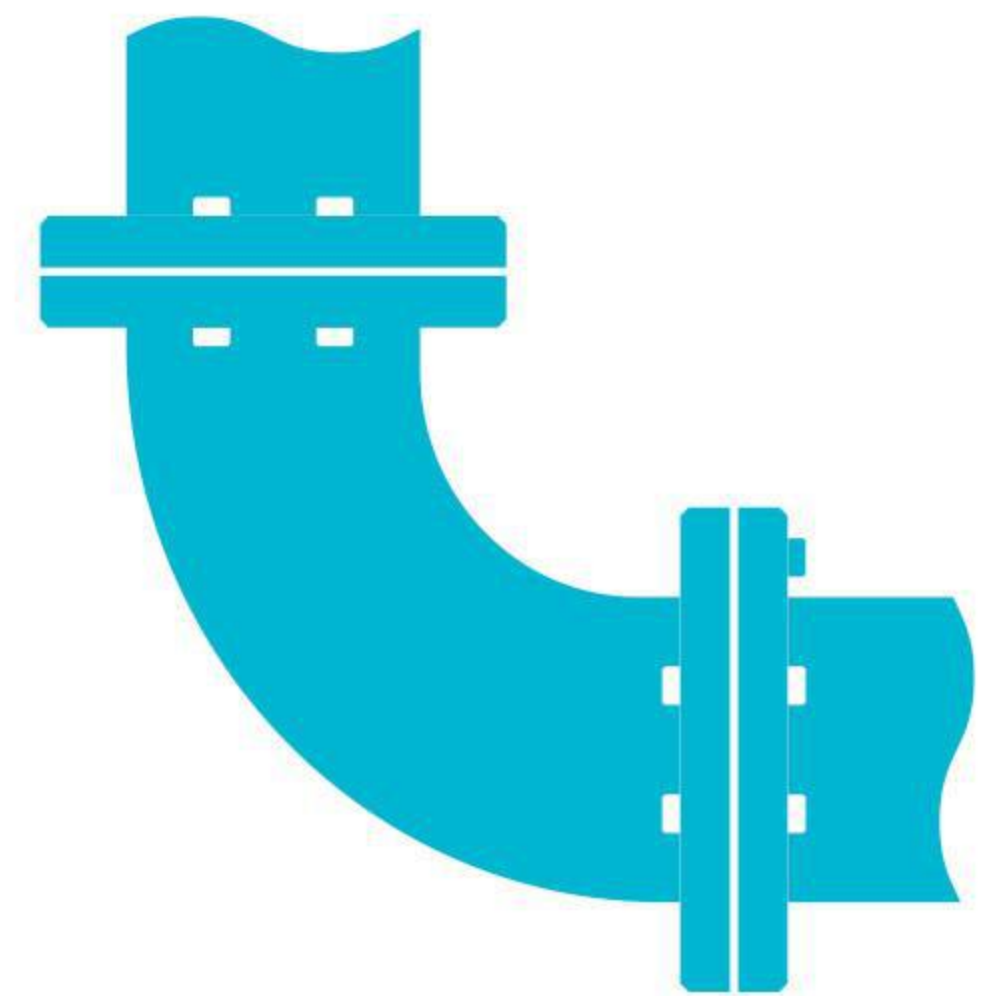
- Rotating Disc Gate Valves (AWWA C500)
- Eccentric Plug Valves (AWWA C517)
- Butterfly Valves (AWWA C504)
- High Performance Butterfly Valves (API 609)
- Swing Check Valve (AWWA C508)
- Ken-Flex Resilient Hinged Check Valve
- Telescoping Valve
- Resilient Seat Gate Valve (AWWA C509/C515)
- Pressure Relief Valves (Floor & Wall)
- Mud Valves
- Shear Gate Valves
- Solid Wedge Gate Valve



GATES

SOLUTIONS:

- Fabricated Stainless Steel Gates
- Fabricated Aluminum Gates
- Stop Logs & Stop Gates
- Cast Iron Slide (Sluice) Gates
- Rectangular Butterfly Gates
- Automatic Level Control Gates
- Flap Gates



PIPE & FITTINGS

SOLUTIONS:

- Fabricated Flange and Wall Pipe
- Ductile Iron Pipe
- Grooved Pipe & Fittings
- Pipe Linings: cement, glass, Protecto 401™
- Welded Outlets, Thread-O-Lets, Welded Boss
- Restrained Joint Fittings
- Seismic Solutions