

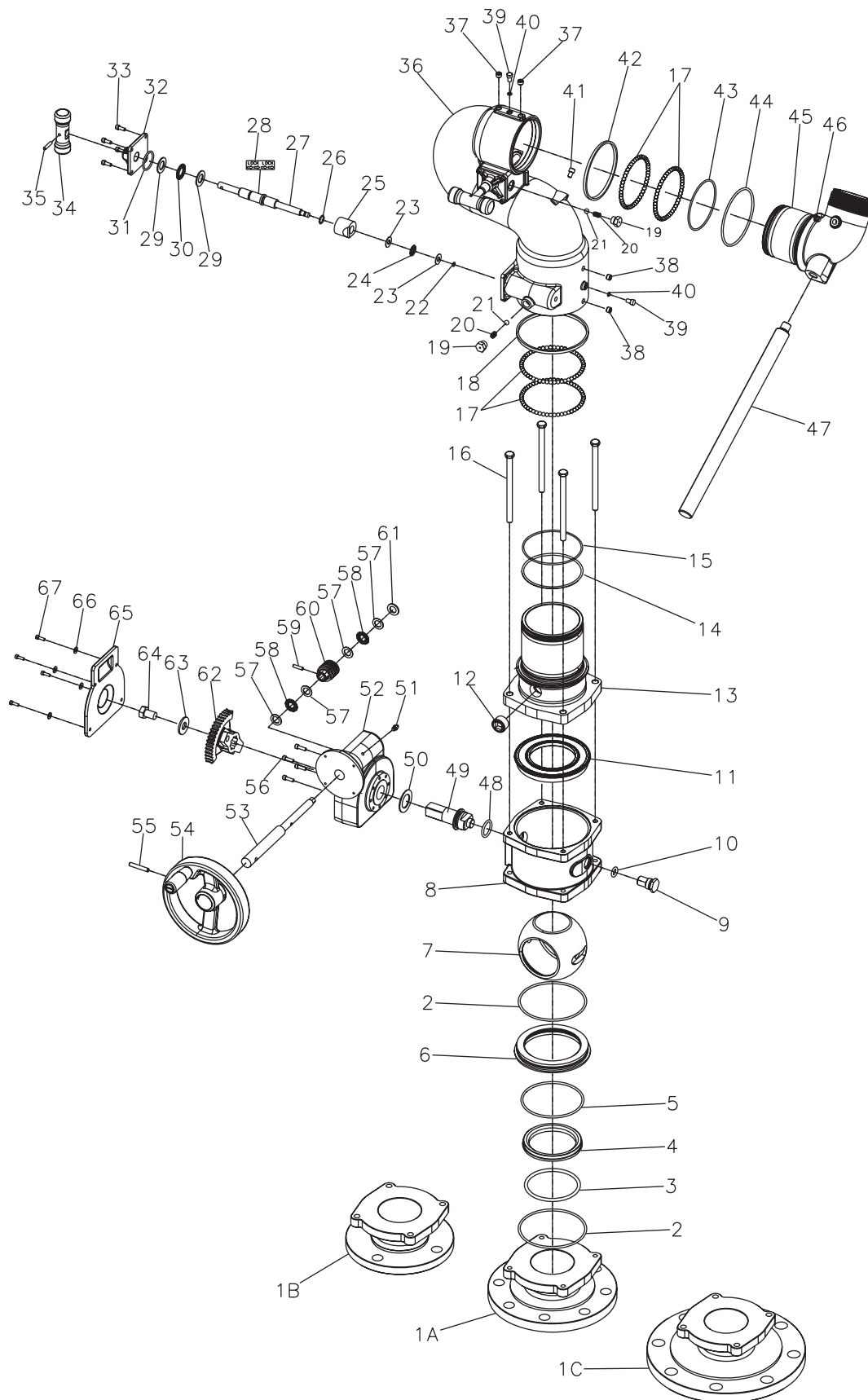


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PART DRAWING

**8593-IV
(LEVER)**

INDEX #	PART #	QTY	DESCRIPTION	INDEX #	PART #	QTY	DESCRIPTION
1A	17983001	1	Base - 4" 150# Flange	34	36726001	2	Handle Tee
1B	17985001	1 (Opt)	Base - 3" 150# Flange	35	51235000	2	Roll Pin
1C	17986001	1 (Opt)	Base - 6" 150# Flange	36	18230001	1	Body-Inlet Monitor
2	57442000	2	O-Ring	37	61221000	2	Screw-Set
3	57555000	1	O-Ring	38	61248000	2	Screw-Set
4	65020000	1	8593 Seat	39	64119000	2	Cap Screw
5	57378000	1	O-Ring	40	57380000	2	O-Ring
6	58912001	1	8593 Retainer	41	65141000	1	Cap Screw
7	17331000	1	Ball	42	57312000	1	O-Ring
8	17766101	1	Body-Valve	43	57506000	1	O-Ring
9	18473001	1	Bolt Pivot	44	65488000	1	Seal-Discharge Elbow
10	57530000	1	O-Ring	45	28142001	1	Discharge Elbow
11	65015000	1	Seat	46	51891000	1	Plug Pipe
12	51881000	1	Plug Pipe	47	36750001	1	Handle-Monitor
13	17984001	1	Base-Adapter	48	57344000	1	O-Ring
14	65487000	1	Seal-Monitor Base	49	65346001	1	Shaft-Actuator
15	57503000	1	O-Ring	50	17608000	1	Washer-Actuator
16	16378000	4	Bolt-Hex Cap Screw	51	57290000	1	O-Ring
17	15005000	194	Balls - 0.250 Brass	52	11852001	1	Adapter-Valve
18	57316000	1	O-Ring	53	64110000	4	Cap Screw
19	52634000	2	Pressure Cap	54	17878000	1	Bushing
20	65707000	2	Spring-Compression	55	61801000	1	Wave Spring
21	15014000	2	Balls - 0.312 Brass	56	17708000	1	Bearing Break
22	57380000	2	O-Ring	57	51819000	1	Stop Plate
23	71516000	4	Washer-Thrust (5/16)	58	36757002	1	Handle Valve Bent
24	17702000	2	Bearing-Thrust (5/16)	59	23663001	1	Handle Cover
25	44411001	2	Lock Wedge	60	71615000	1	Label Washer
26	57321000	2	O-Ring	61	17864000	1	Hex Bolt Screw
27	65454001	2	Shaft-Lock	62	44256000	1	Label-Open (CCW)
28	44584000	2	Label-Lock	63	44257000	1	Label-Open (CW)
29	71513000	4	Washer-Thrust (5/8)	Not Shown	61215100	4	Screw S/S
30	15699000	2	Bearing-Thrust (5/8)	Not Shown	44601000	1	Label-ID
31	57389000	2	O-Ring				
32	10466001	2	Adapter-Flange				
33	64074000	8	Screw-Machine				



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ELKHART, INDIANA

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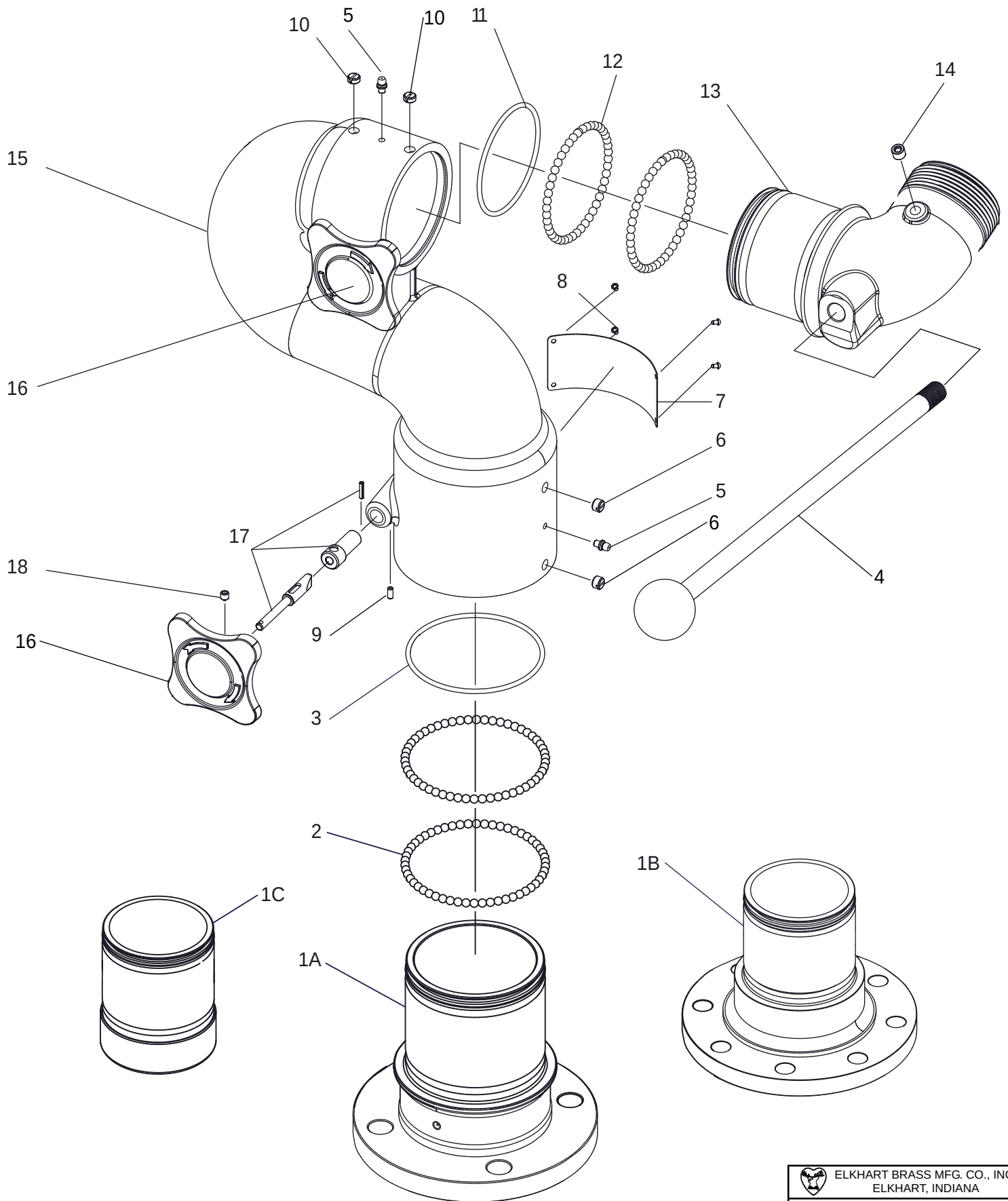
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PART
DRAWING

**8593-IV
(GEAR)**

INDEX #	PART #	QTY	DESCRIPTION	INDEX #	PART #	QTY	DESCRIPTION
1A	17983001	1	Base - 4" 150# Flange	37	61221000	2	Screw-Set
1B	17985001	1 (Opt)	Base - 3" 150# Flange	38	61248000	2	Screw-Set
1C	17986001	1 (Opt)	Base - 6" 150# Flange	39	64119000	2	Cap Screw
2	57442000	2	O-Ring	40	57380000	2	O-Ring
3	57555000	1	O-Ring	41	65141000	1	Cap Screw
4	65020000	1	8593 Seat	42	57312000	1	O-Ring
5	57378000	1	O-Ring	43	57506000	1	O-Ring
6	58912001	1	8593 Retainer	44	65488000	1	Seal-Discharge Elbow
7	17331000	1	Ball	45	28142001	1	Discharge Elbow
8	17766101	1	Body-Valve	46	51891000	1	Plug Pipe
9	18473001	1	Bolt Pivot	47	36750001	1	Handle-Monitor
10	57530000	1	O-Ring	48	57344000	1	O-Ring
11	65015000	1	Seat	49	65347001	1	Actuator-Shaft
12	51881000	1	Plug Pipe	50	17608000	1	Washer-Actuator
13	17984001	1	Base-Adapter	51	32134000	1	Fitting Grease
14	65487000	1	Seal-Monitor Base	52	23593001	1	Gear Case
15	57503000	1	O-Ring	53	65375001	1	Actuator Shaft-Gear
16	16378000	4	Bolt-Hex Cap Screw	54	81018001	1	Handwheel Assy
17	15005000	194	Balls - 0.250 Brass	55	51240000	1	Roll Pin
18	57316000	1	O-Ring	56	63789000	4	Cap Screw
19	52634000	2	Pressure Cap	57	71522000	4	Washer-Thrust
20	65707000	2	Spring-Compression	58	15698000	2	Bearing-Thrust (1/2)
21	15014000	2	Balls - 0.312 Brass	59	51224000	1	Roll Pin
22	57380000	2	O-Ring	60	71249001	1	Worm Gear
23	71516000	4	Washer-Thrust (5/16)	61	71521000	1	Thrust Washer-Brass
24	17702000	2	Bearing-Thrust (5/16)	62	33610001	1	Gear Sector
25	44411001	2	Lock Wedge	63	7106000	1	Washer-Flat
26	57321000	2	O-Ring	64	17864000	1	Cap Screw-Hex
27	65454001	2	Shaft-Lock	65	23653000	1	Cover-Gear Case
28	44584000	2	Label Lock	66	71609000	4	#8 Washer
29	71513000	4	Washer-Thrust (5/8)	67	64103000	4	Cap Screw
30	15699000	2	Bearing-Thrust (5/8)	Not Shown	61215100	4	Screw S/S
31	57389000	2	O-Ring	Not Shown	44601500	1	Label-ID
32	10466001	2	Adapter-Flange				
33	64074000	8	Screw-Machine				
34	36726001	2	Handle Tee				
35	51235000	2	Roll Pin				
36	18230001	1	Body-Inlet Monitor				

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COPPERHEAD 8593-02

INDEX #	PART #	QTY	DESCRIPTION
1A	17941001	1	Base - 3" 150# Flange
1B	17944001	1 (Opt)	Base - 4" 150# Flange
1C	17942001	1 (Opt)	Base - 3.0" NPT
2	15005000	102	Balls - 0.250 Brass
3	57316000	1	O-Ring
4	80296001	1	Handle & Knob sub-assy
5	31011000	1	Fitting-Grease
6	61248000	2	Screw-Set (Brass)
7	44387000	1	Label/Serial No. Tag
8	61215100	4	Screw drive (S/S)
9	63689000	2	Screw-Set
10	61222000	2	Screw-Set (Brass)
11	57312000	1	O-Ring
12	15005000	92	Balls - 0.250 Brass
13	28136001	1	Elbow-Discharge
14	51891000	1	Plug-Pipe Brass
15	17913001	1	Body-Inlet
16	42080001	2	Knob-Lock (Brass)
17	81329001	2	Lock Bushing Sub-Assy
18	61275000	2	Screw-Set
Not Shown	99401011	1	Pressure Gauge Feature

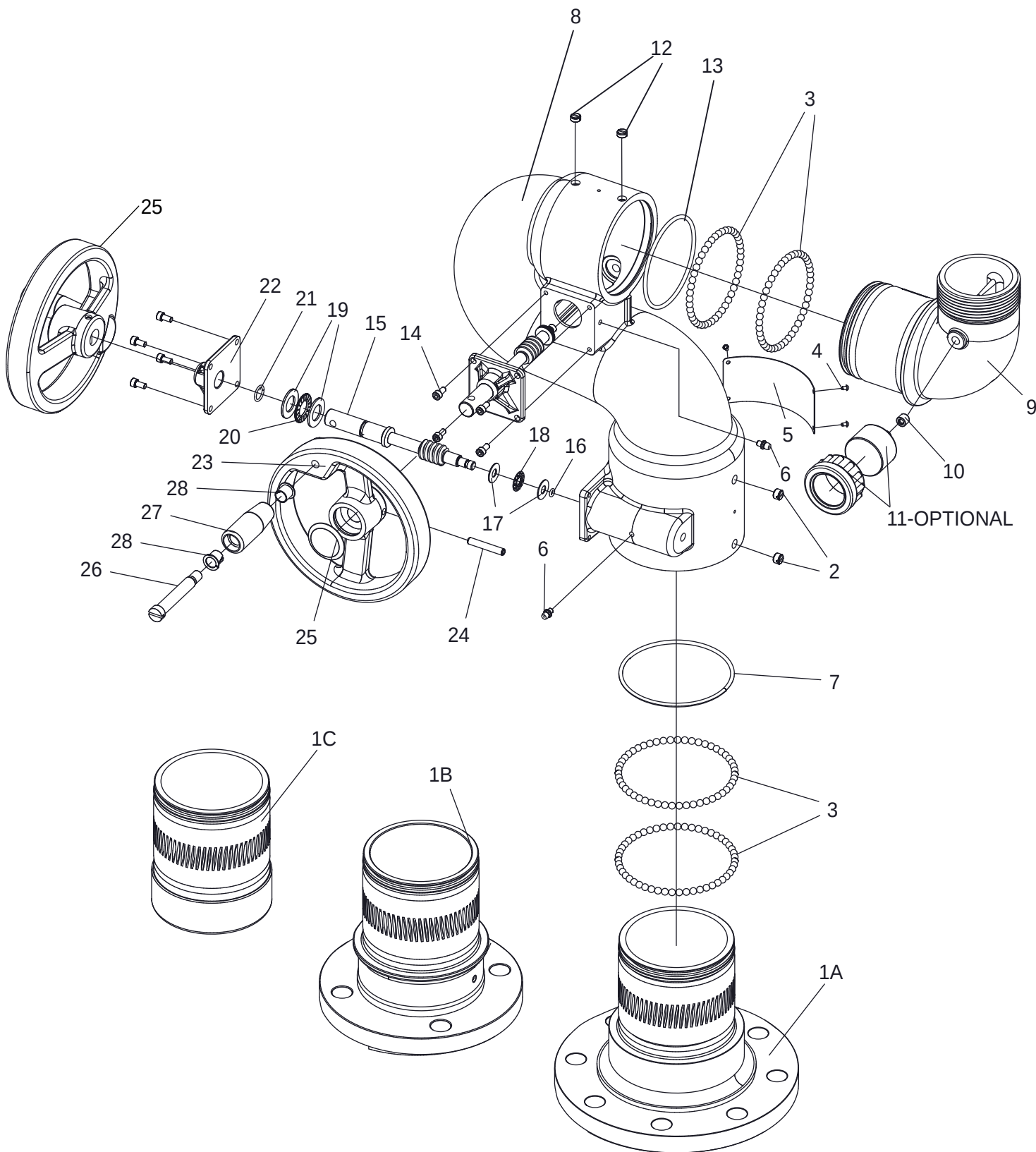


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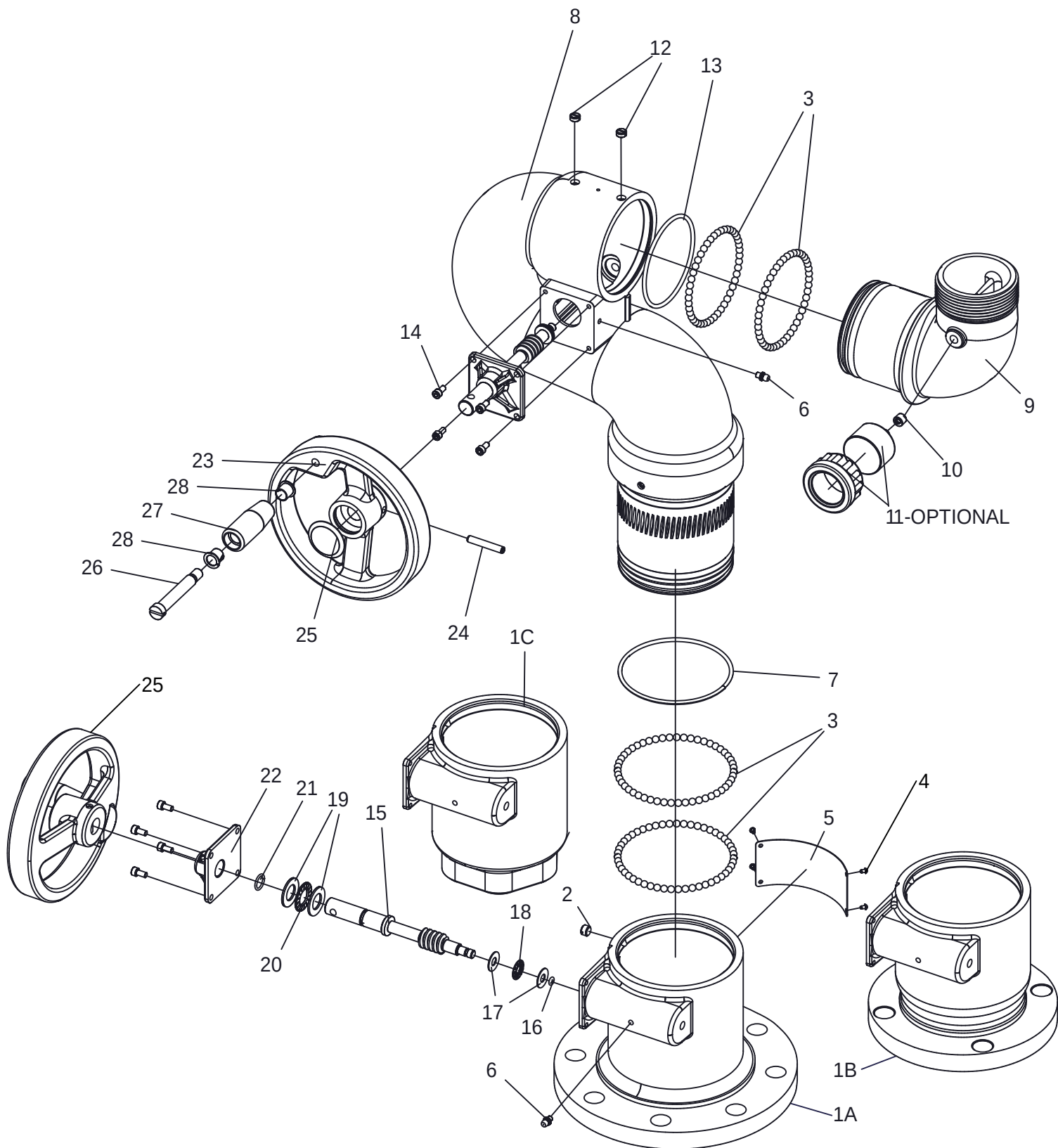
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PART
LIST



COPPERHEAD 8593-03/294-11REV.06

INDEX #	PART #	QTY	DESCRIPTION
1B	17968001	1	BASE - 3" 150# Flange
1A	17964001	1 (Opt)	BASE - 4" 150# Flange
1C	17972001	1 (Opt)	BASE - 3" NPT
2	61248000	2	SET SCREW
3	15005000	194	BALL BEARINGS
4	61215100	4	SCREW
5	44542000	1	LABEL/SERIAL TAG
6	31011000	2	GREASE FITTING
7	57316000	1	O-RING
8	18215001	1	INLET BODY
9	28141001	1	DISCHARGE ELBOW
10	51891000	1	PIPE - PLUG
11	99401011	1 (Opt)	PRESSURE GAUGE
12	61222000	2	SET SCREW
13	57312000	1	O-RING
14	63795000	8	SET SCREW
15	65655001	2	WORM SHAFT
16	57380000	2	O-RING
17	71516000	4	THRUST WASHER
18	17702000	2	THRUST BEARING
19	71513000	4	THRUST WASHER
20	15699000	2	THRUST BEARING
21	57321000	2	O-RING
22	10466001	2	FLANGED ADAPTER
23	51240000	2	ROLL PIN
24	71236001	2	HAND WHEEL
25	52018000	2	CAP PLUG
26	16436001	2	SWIVEL BOLT
27	36704001	2	SPINNER HANDLE
28	16687000	4	SPINNER BUSHING



COPPERHEAD 8593-03X/294-11REV.06X

INDEX #	PART #	QTY	DESCRIPTION
1A	17965001	1 (Opt)	BASE - 4" 150# Flange
1B	17969001	1	BASE - 3" 150# Flange
1C	17973001	1 (Opt)	BASE - 3" NPT
2	61248000	2	SET SCREW
3	15005000	194	BALL BEARINGS
4	61215100	4	SCREW
5	44543000	1	LABEL/SERIAL TAG
6	31011000	2	GREASE FITTING
7	57316000	1	O-RING
8	81484001	1	INLET BODY
9	28141001	1	DISCHARGE ELBOW
10	51891000	1	PIPE - PLUG
11	99401011	1 (Opt)	PRESSURE GAUGE
12	61222000	2	SET SCREW
13	57312000	1	O-RING
14	63795000	8	SET SCREW
15	65655001	2	WORM SHAFT
16	57380000	2	O-RING
17	71516000	4	THRUST WASHER
18	17702000	2	THRUST BEARING
19	71513000	4	THRUST WASHER
20	15699000	2	THRUST BEARING
21	57321000	2	O-RING
22	10466001	2	FLANGED ADAPTER
23	51240000	2	ROLL PIN
24	71236001	2	HAND WHEEL
25	52018000	2	CAP PLUG
26	16436001	2	SWIVEL BOLT
27	36704001	2	SPINNER HANDLE
28	16687000	4	SPINNER BUSHING