

Building connections that last™



# Sharpe® Series SG

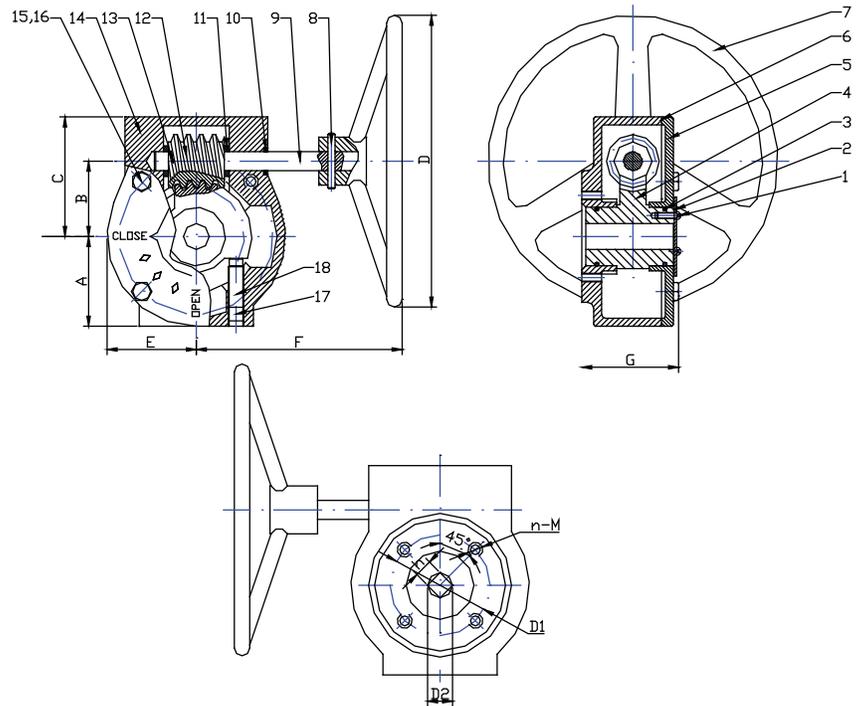
## Gear Operator Datasheet



# Gear Operator Sharpe® Series SG



**Gear Operator 2" – 12"**



## Parts & Materials (Sizes 2" – 12")

Item	Quantity	Description and Material Code
1	2	Bolts, Steel
2	1	Indicator, Aluminum
3	2	"O" Ring, ASTM D2000 NBR
4	1	Worm Gear, ASTM A536 65-45-12
5	1	Cover, ASTM A126 Class B
6	1	Spacer Sheet
7	1	Hand Wheel, ASTM A126 Class B
8	1	Taper Pin, AISI 1045
9	1	Shaft, AISI 1045

Item	Quantity	Description and Material Code
10	1	Ring, ASTM D2000 NBR
11	2	Baffle Ring, ASTM536 65-45-12
12	1	Worm, AISI 1045
13	1	Taper Pin, Steel
14	1	Housing, AATM A126 Class B
15	4	Bolts, Steel
16	4	Spring Spacer, AISI 1566
17	1	Locking Screw, Steel
18	1	Adjusting Screw, Steel

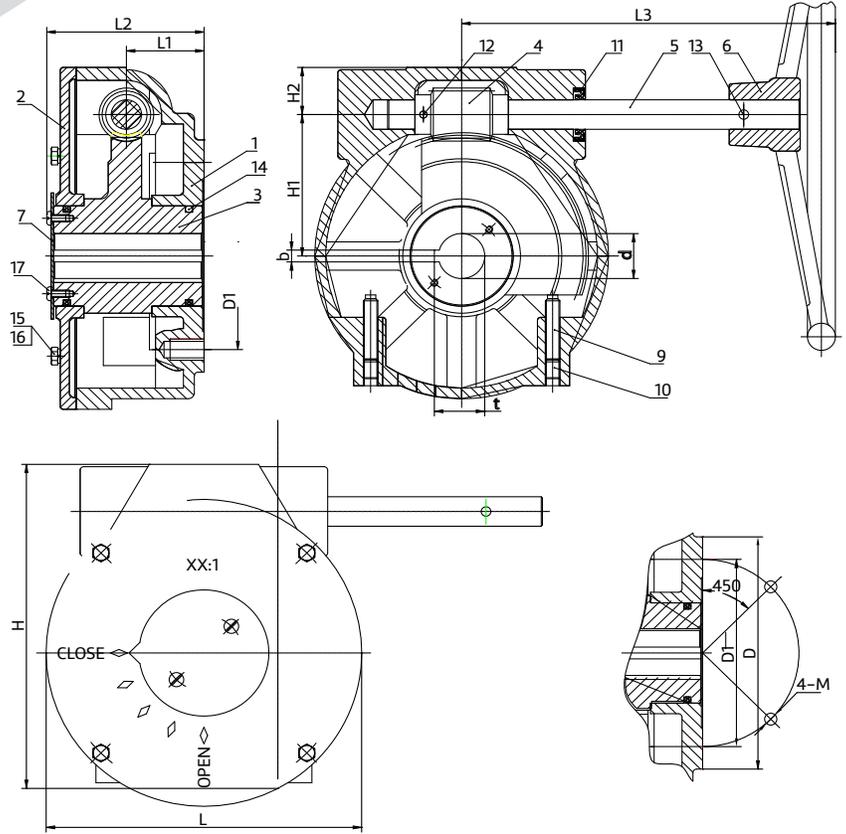
## Dimensions (Inches)

Valve Size	Gear Ratio	Model	D	E	F	A	C	G	B	D1	D2	M	n	h	Output Torque (In / Lbs)	Weight (Lbs.)
2" - 3"	24:1	SG-11	5.9	2.05	6.10	2.13	2.87	2.95	1.77	F05	.496	M6	4	.354	1504	10.1
4"	24:1	SG-12	5.9	2.05	6.10	2.13	2.87	2.95	1.77	F07	.620	M8	4	.433	1504	10.1
5" - 6"	24:1	N / A	5.9	2.05	6.10	2.13	2.87	2.95	1.77	F07	.745	M8	4	.551	1504	10.1
8"	30:1	N / A	11.81	3.03	8.74	3.01	3.94	3.35	2.60	F10	.870	M10	4	.669	6195	18.7
10"	30:1	SG-13	11.81	3.03	8.74	3.01	3.94	3.35	2.60	F10	1.12	M10	4	.867	6195	18.7
12"	50:1	SG-14	11.81	3.19	8.39	3.19	4.67	3.35	3.05	F10	1.24	M10	4	.867	10621	24.64

# Gear Operator Sharpe® Series SG



**Gear Operator 14" – 18"**



### Parts & Materials (Sizes 14" – 18")

Item	Quantity	Description and Material Code
1	1	Indicator, Steel
2	1	Big Worm Gear, Ductile Iron
3	1	Small Housing , ASTM A126 CL. B
4	1	Small Worm, Steel
5	1	Small End Cover, ASTM A126 CL. B
6	1	Hand Wheel, ASTM A126 CL. B
7	1	Left End Cover, ASTM A126 CL.B
8	1	Big Housing, ASTM A126 CL. B
9	1	Big Worm, Steel
10	1	Small Worm Gear, Ductile Iron
11	1	Small Cover, ASTM A126 CL. B

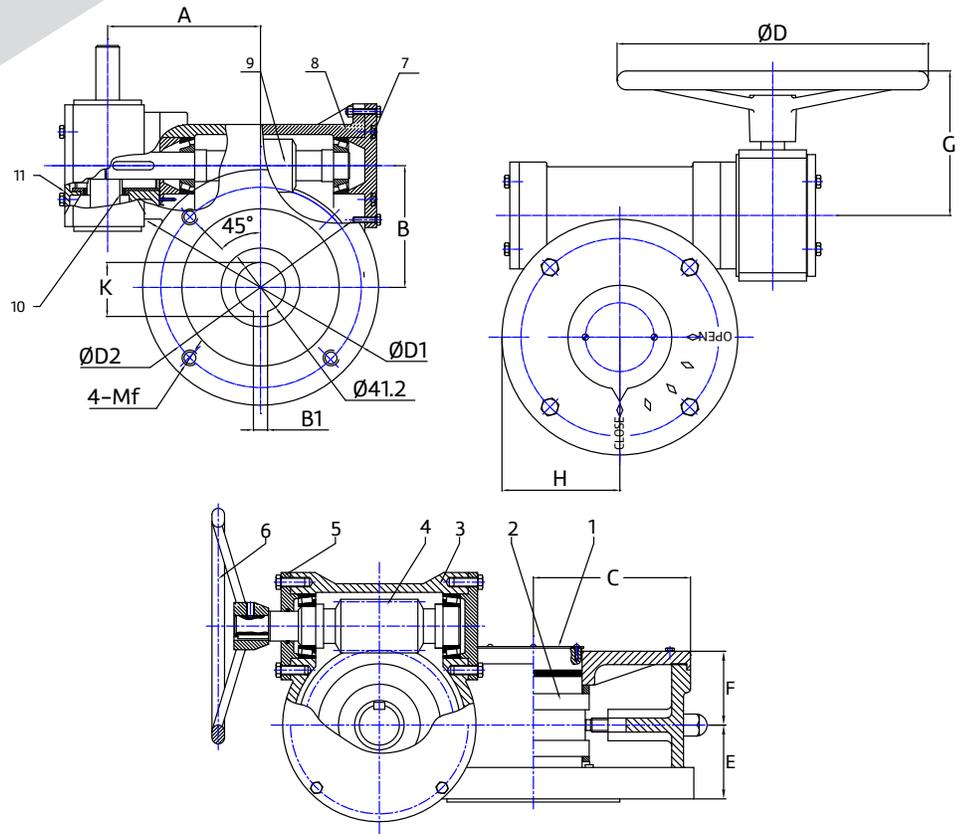


### Dimensions (Inches)

Valve Size	Gear Ratio	Model	L	L1	L2	L3	H	H1	H2	D	D1	M	φ	d	b	t	Output Torque (In / Lbs)	Weight (Lbs.)
14"	80:1	SG-15	6.38	1.71	3.39	8.39	7.78	3.05	1.54	5.51	4.02	.39	11.81	1.25	.315	1.38	10,621	26.64
16"	80:1	SG-16	10.04	2.52	5.10	9.88	11.42	4.72	1.57	7.76	5.51	.63	11.81	1.31	.393	1.44	22,128	73.7
18"	80:1	SG-17	10.04	2.52	5.10	9.88	11.42	4.72	1.57	7.76	5.51	.63	11.81	1.50	.393	1.63	22,128	73.7

# Gear Operator Sharpe® Series SG

Gear Operator 20" – 24"



## Parts & Materials (Sizes 20" – 24")

Item	Quantity	Description and Material Code
1	1	Indicator, Steel
2	1	Big Worm Gear, Ductile Iron
3	1	Small Housing, ASTM A126 CL. B
4	1	Small Worm, Steel
5	1	Small End Cover, ASTM A126 CL. B
6	1	Hand Wheel, ASTM A126 CL. B
7	1	Left End Cover, ASTM A126 CL. B
8	1	Big Housing, ASTM A126 CL. B
9	1	Big Worm, Steel
10	1	Small Worm Gear, Ductile Iron
11	1	Small Cover, ASTM A126 CL. B

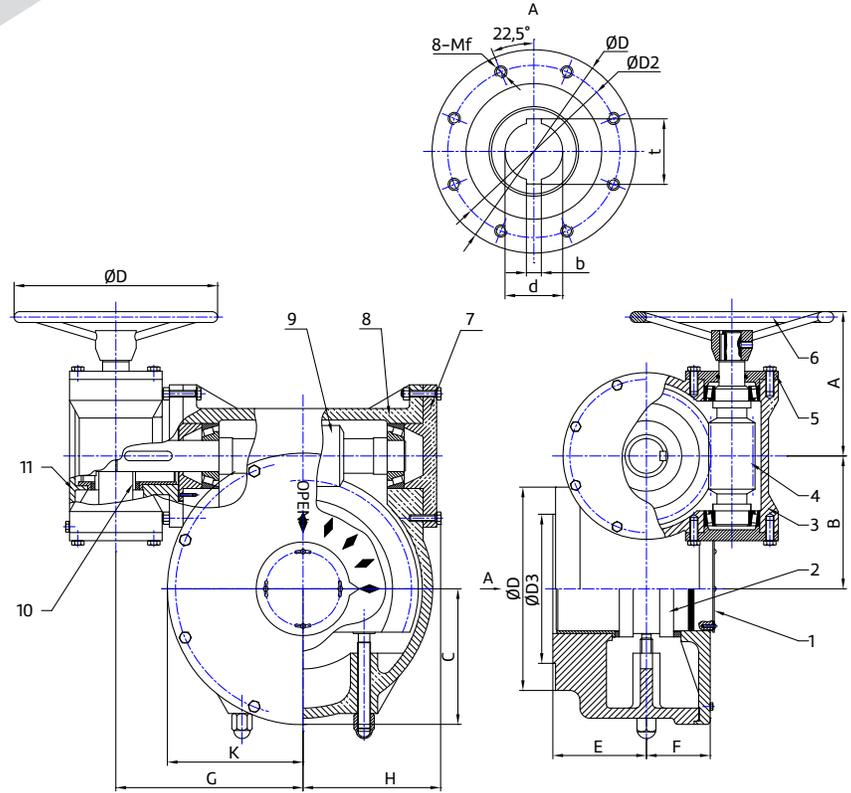


## Dimensions (Inches)

Valve Size	Gear Ratio	Model	A	B	C	D	E	F	G	H	D1	D2	B1	K	f	d0	Output Torque (In / Lbs)	Weight (Lbs.)
20"	560:1	SG-18	7.09	4.72	4.33	9.84	2.68	2.48	6.30	4.33	7.76	5.51	.394	1.77	.630	1.62	22,127	99
24"	640:1	SG-19	7.87	5.12	5.31	11.81	2.76	2.95	6.30	5.12	10.87	6.50	.630	2.17	.787	2.00	35,404	116.6

# Gear Operator Sharpe® Series SG

**Gear Operator 28" – 42"**



## Parts & Materials (Sizes 28" – 42")

Item	Quantity	Description and Material Code
1	1	Indicator, Steel
2	1	Big Worm Gear, Ductile Iron
3	1	Small Housing, ASTM A126 CL. B
4	1	Small Worm, Steel
5	1	Small End Cover, ASTM A126 CL. B
6	1	Hand Wheel, ASTM A126 CL. B
7	1	Left End Cover, ASTM A126 CL. B
8	1	Big Housing, ASTM A126 CL. B
9	1	Big Worm, Steel
10	1	Small Worm Gear, Ductile Iron
11	1	Small Cover, ASTM A126 CL. B



## Dimensions (Inches)

Valve Size	Gear Ratio	Model	A	B	C	D	E	F	G	H	k	D1	D2	D3	b	t	f	d0	Output Torque (In / Lbs)	Weight (Lbs.)
28" - 32"	704:1	SG-20	7.87	5.71	5.91	15.75	3.15	3.15	9.25	5.91	6.30	11.81	10.0	7.87	.709	2.84	.630	63.5	70,808	212.3
36"	704:1	SG-21	8.66	7.72	7.91	17.72	3.86	3.66	11.02	6.97	7.87	11.81	10.0	7.87	.787	3.34	.630	75.1	132,765	396
40"	704:1	SG-22	8.66	7.72	7.91	17.72	3.86	3.66	11.02	6.97	7.87	11.81	10.0	7.87	.866	3.77	.630	85.1	132,765	396
42"	704:1	SG-23	8.66	7.72	7.91	17.72	3.86	3.66	11.02	6.97	7.87	13.78	11.73	9.06	.984	4.17	.787	95.1	132,765	396

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