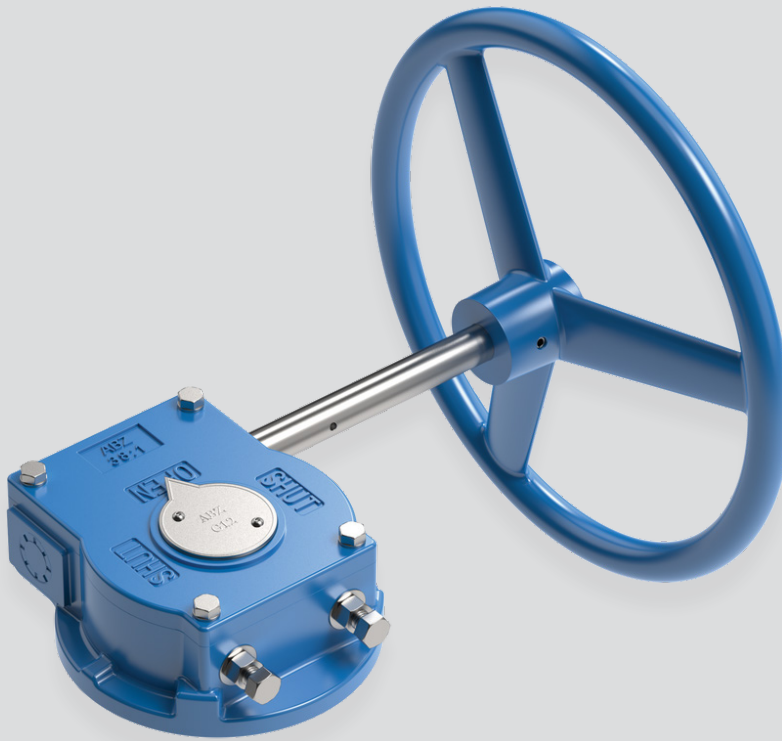


Building Connections That Last™

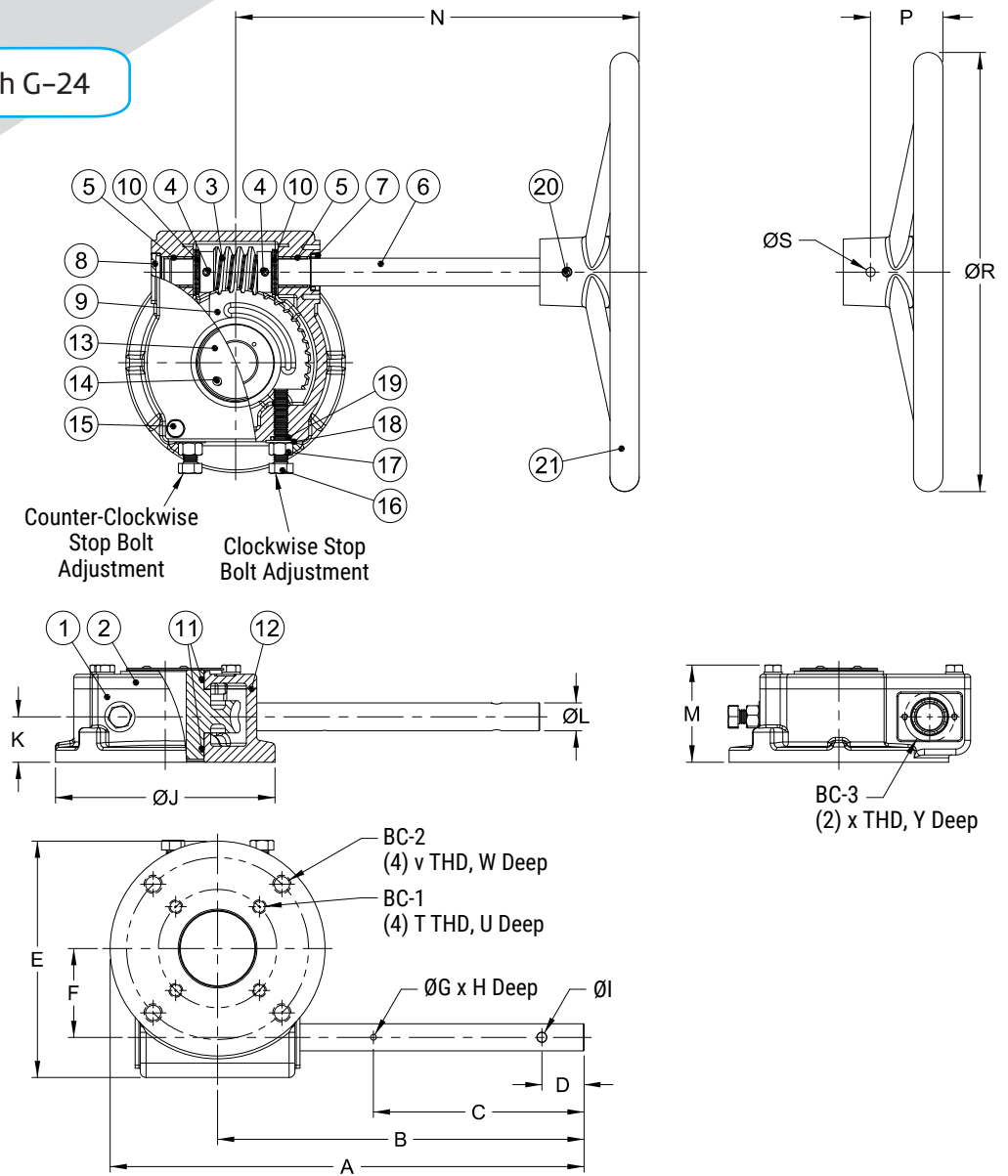


Series G

Gear Operator Datasheet



Gear Operator G-6 through G-24



Parts & Materials

Item No.	Name	Material		No. Req'd	Item No.	Name	Material		No. Req'd
		Standard	High Temp				Standard	High Temp	
1	Gearcase	Gray Cast Iron		1	12	Seal	NBR	Viton	1
2	Gear Cap	Gray Cast Iron		1	13	Index Plate	Steel		1
3	Worm Shaft	AISI-1045		1	14	Index Plate Bolt	ANSI-304		2
4	Worm Set Screw	Carbon Steel		2	15	Cap Bolt & Washer	ANSI-304		4
5	Bushing	AISI-1020		2	16	Stop Bolt	ANSI-304		2
6	Input Shaft	AISI-304		1	17	Jam Nut	ANSI-304		2
7	Oil Seal	NBR	Viton	1	18	Stop Bolt Washer	ANSI-304		2
8	Oil Seal Plug	NBR	Viton	1	19	Stop Bolt O-Ring	NBR	Viton	2
9	Worm Quadrant	Ductile Iron		1	20	Roll Pin	ANSI-304		1
10	Bearing	F1 Steel		2	21	Handwheel	Ductile Iron		1
11	Quadrant O-Ring	NBR	Viton	2					

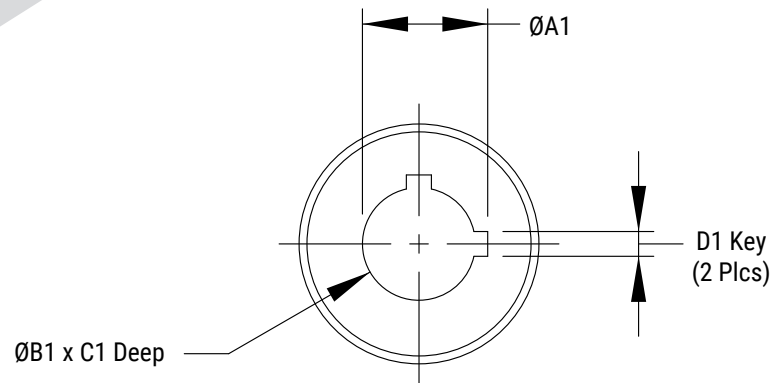
Gear Operator G-6 through G-24

Dimensions

	A	B	C	D	E	F	ØG	H	ØI	ØJ	K	ØL	M
G6	9.11	7.01	3.05	0.62	5.04	2.09	0.16	0.20	0.203	4.21	1.13	0.63	2.38
G12	13.02	10.07	5.79	1.16	6.5	2.44	0.16	0.20	0.260	5.91	1.22	0.748	2.61
G14	15.00	12.00	7.36	1.14	7.52	3.11	0.22	0.20	0.260	5.98	1.69	0.748	3.43
G14E													
G16	15.43	12.00	6.36	1.31	8.33	3.50	0.30	0.20	0.328	6.89	1.95	0.984	3.76
G16E													
G18	16.48	12.09	6.00	1.31	9.82	4.11	0.28	0.20	0.328	8.78	1.93	0.984	4.02
G20													
G24	18.03	12.13	5.79	1.31	12.99	5.12	0.28	0.20	0.328	11.81	2.40	0.984	5.06
G24HP													
G24E													

	N	P	ØR	ØS	BC-1	T	U	BC-2	V	W	BC-3	X	Y	Output Torque Lbs-In
G6	8.35	1.97	5.906	0.191	3.25	$\frac{3}{8}$ - 16unc	0.55	N/A	N/A	N/A	1.339	M4-7	0.354	3,540
G12	10.86	1.94	11.811	0.25	3.25	$\frac{3}{8}$ - 16unc	0.79	5.00	$\frac{1}{2}$ - 18unc	0.79	1.339	M4-7	0.354	7,520
G14	12.79	1.94	11.811	0.25	5.00	$\frac{1}{2}$ - 18unc	0.79	N/A	N/A	N/A	1.496	M5-8	0.610	13,250
G14E														
G16	12.81	2.14	15.748	0.315	5.00	$\frac{1}{2}$ - 18unc	0.79	N/A	N/A	N/A	1.850	M6-1	0.669	17,700
G16E														
G18	12.91	2.14	15.748	0.315	6.50	$\frac{3}{4}$ - 10unc	1.00	N/A	N/A	N/A	1.850	M6-1	0.669	26,550
G20														
G24	12.95	2.14	15.748	0.315	6.50	$\frac{3}{4}$ - 10unc	1.00	10.00	M16-1.5	0.945	1.850	M6-1	0.669	39,825
G24HP														
G24E														

Gear Bore G-6 through G-24

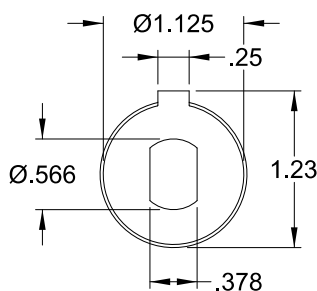


Gear Bore
(Sizes G6 thru G20, G24HP & G24E)

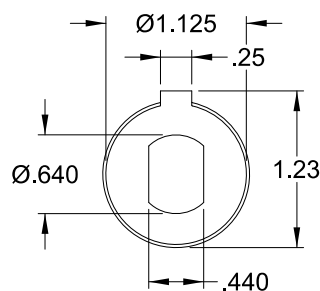
Dimensions

	A1		B1		C1	D1	
G6	1.260	+0.004: -0	1.130	+0.004: -0	2.205	0.252	+0.002: -0
G12	1.260	+0.004: -0	1.130	+0.004: -0	2.480	0.252	+0.002: -0
G14	1.530	+0.004: -0	1.378	+0.004: -0	3.268	0.312	+0.002: -0
G14E	1.260	+0.004: -0	1.130	+0.004: -0		0.252	+0.004: -0
G16	1.815	+0.004: -0	1.626	+0.004: -0	3.602	0.375	+0.004: -0
G16E	1.530	+0.004: -0	1.378	+0.004: -0		0.312	+0.004: -0
G18	2.126	+0.004: -0	1.876	+0.004: -0	3.819	0.500	+0.004: -0
G20	2.378	+0.004: -0	2.126	+0.004: -0		0.500	+0.004: -0
G24HP	2.992	+0.004: -0	2.562	+0.004: -0	4.724	0.750	+0.004: -0
G24E	2.126	+0.004: -0	1.876	+0.004: -0	4.724	0.500	+0.004: -0

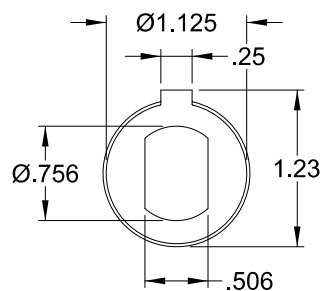
Available Inserts



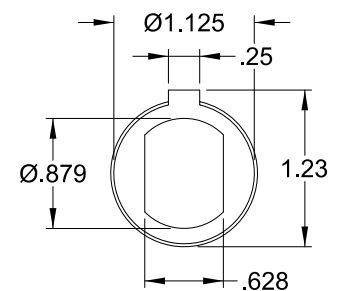
Fits Double D Stem Size
Ø9/16 by 3/8
Part Number: 5322021260



Fits Double D Stem Size
Ø5/8 by 7/16
Part Number: 5322021300



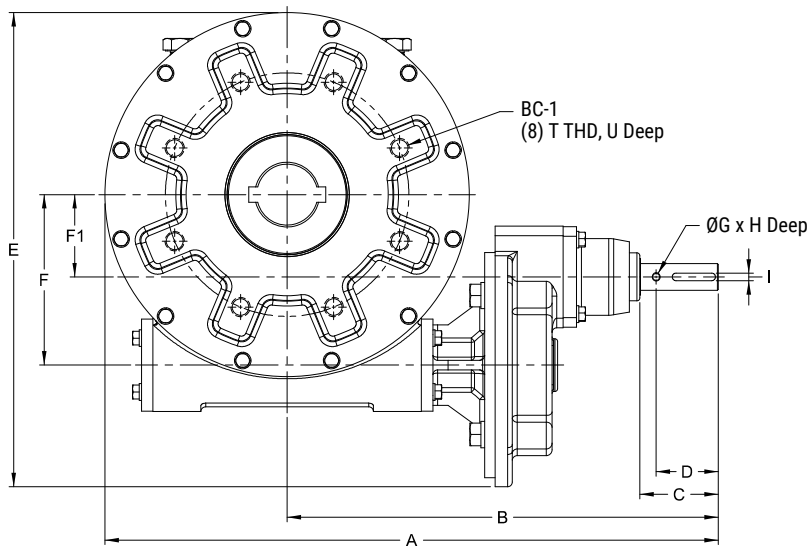
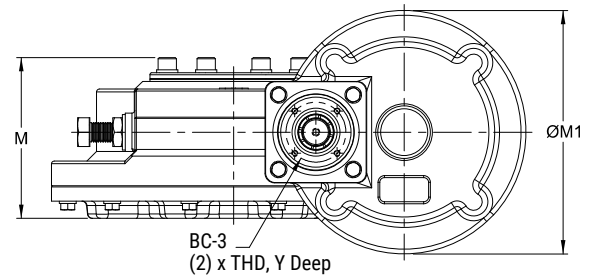
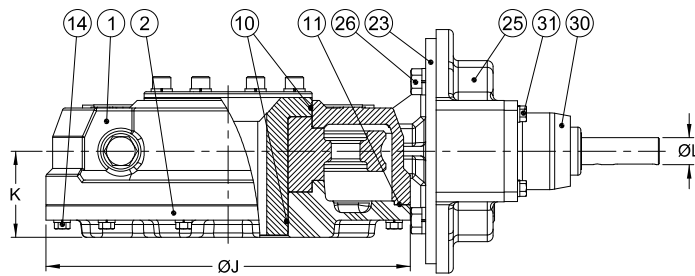
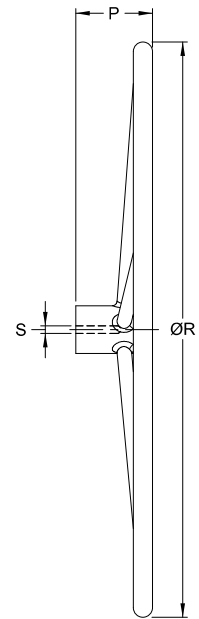
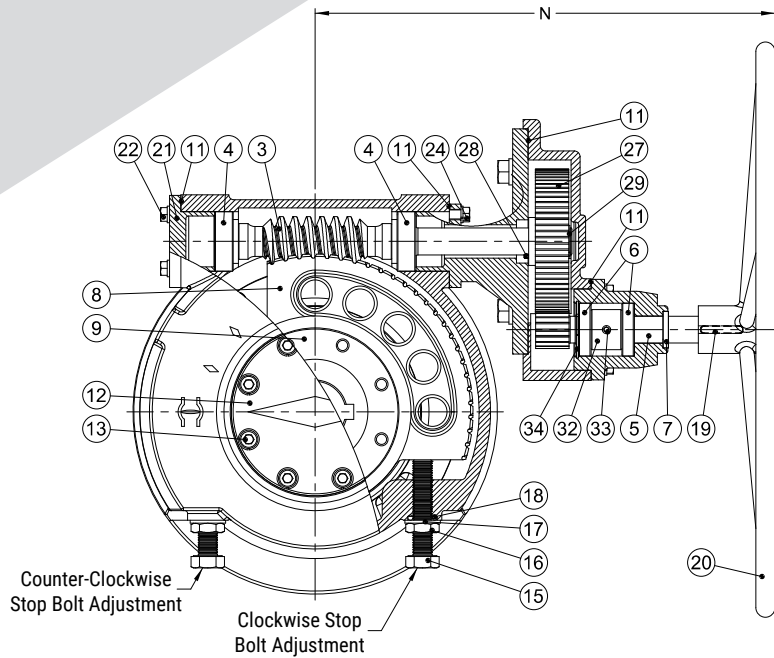
Fits Double D Stem Size
Ø3/4 by 1/2
Part Number: 5322021340



Fits Double D Stem Size
Ø7/8 by 5/8
Part Number: 5322021360

Gear Operator Series G

Gear Operator G-30 through G-42



Gear Operator G-30 through G-42

Parts & Materials

Item No.	Name	Material		No. Req'd
		Standard	High Temp	
1	Gearcase	Ductile Iron		1
2	Gearcase Base	Ductile Iron		1
3	Worm Shaft	AISI-1045		1
4	Worm Shaft	F1 Steel		2
	Tapered Bearing			
5	Input Shaft	42CrMo		1
6	Input Shaft	F1 Steel		2
	Ball Bearing			
7	Oil Seal	NBR	Viton	1
8	Quadrant Gear Drive	Ductile Iron		1
9	Quadrant Bushing	Ductile Iron		1
10	Quadrant Bushing	NBR	Viton	2
	O-Ring			
11	Gearcase Seal	NBR	Viton	1
12	Index Plate	Steel		1
13	Index Plate	ANSI-304		8
	Bolt & Washer			
14	Gearcase Base	ANSI-304		12
	Bolt & Washer			
15	Stop Bolt	ANSI-304		2
16	Stop Bolt Jam Nut	ANSI-304		2
17	Stop Bolt Washer	ANSI-304		2

Item No.	Name	Material		No. Req'd
		Standard	High Temp	
18	Stop Bolt O-Ring	NBR	Viton	2
19	Handwheel Key	Steel		1
20	Handwheel	Ductile Iron		1
21	Gearcase Cap	Ductile Iron		1
22	Gearcase Cap	ANSI-304		4
	Bolt & Washer			
23	Worm Shaft Cap	Ductile Iron		1
24	Worm Shaft Cap	ANSI-304		4
	Bolt & Washer			
25	Spur Gearcase	Ductile Iron		1
26	Spur Gearcase	AISI-304		4
	Bolt & Washer			
27	Spur Gear	AISI-1045		1
28	Spur Gear Key	Steel		1
29	Spur Gear Clip	Carbon Steel		1
30	Spur Gearcase Cap	Ductile Iron		1
31	Spur Gearcase Cap	AISI-304		4
	Bolt & Washer			
32	Input Shaft Bushing	AISI-304		1
33	Input Shaft Bushing	AISI-304		1
	Set Screw			
34	Input Shaft Clip	Carbon Steel		1

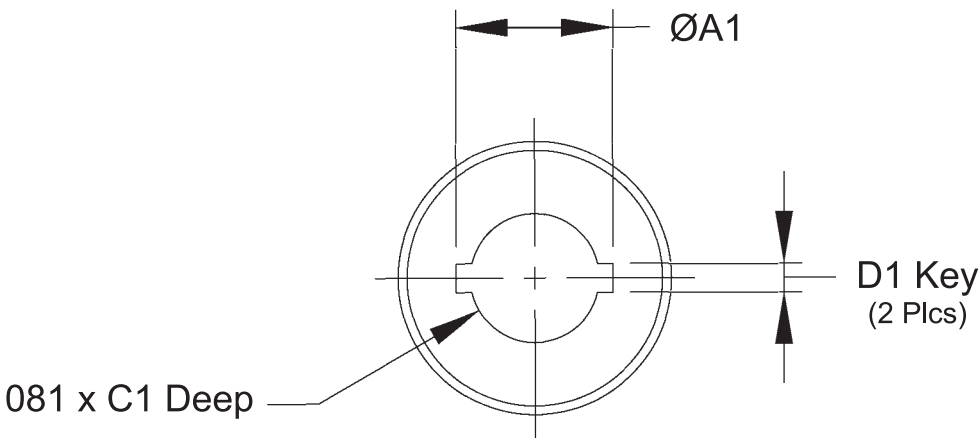
Gear Operator G-30 through G-42

Dimensions (Inches)

	A	B	C	D	E	F	F1	ØG	H	ØI	ØJ	K	ØL	M
G30	25.19	17.71	3.22	2.55	19.48	7.00	3.38	0.28	0.20	8mm	14.96	3.54	1.102	6.61
G30E														
G36														
G36E	28.87	19.91	3.22	2.55	23.62	8.27	3.31	0.28	0.20	8mm	17.90	4.30	1.102	8.14
G36EL														
G40	29.87	19.91	3.22	2.55	23.62	8.27	3.31	0.28	0.20	8mm	17.90	4.30	1.102	8.14
G42	28.87	19.91	3.22	2.55	25.26	8.27	1.09	0.28	0.20	8mm	17.90	4.30	1.102	8.14

	ØM1	N	P	ØR	ØS	BC-1	T	U	BC-2	V	W	BC-3	X	Y	Output Torque Lbs-In
G30	10.00	18.89	3.15	23.622	0.315	10.00	M16-1.5	0.945	N/A	N/A	N/A	2.461	M5-8	0.551	70,800
G30E															
G36															
G36E	12.80	21.09	3.15	23.622	0.315	11.73	M20-2.5	1.496	N/A	N/A	N/A	2.461	M5-8	0.551	141,600
G36EL															
G40	12.80	21.09	3.15	23.622	0.315	11.73	M20-2.5	1.496	N/A	N/A	N/A	2.461	M5-8	0.551	141,600
G42	16.06	21.09	3.15	23.622	0.315	11.73	M20-2.5	1.496	N/A	N/A	N/A	2.461	M5-8	0.551	177,000

Gear Bore G-24 through G-42



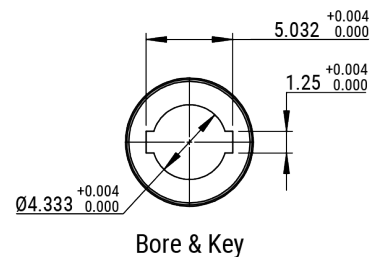
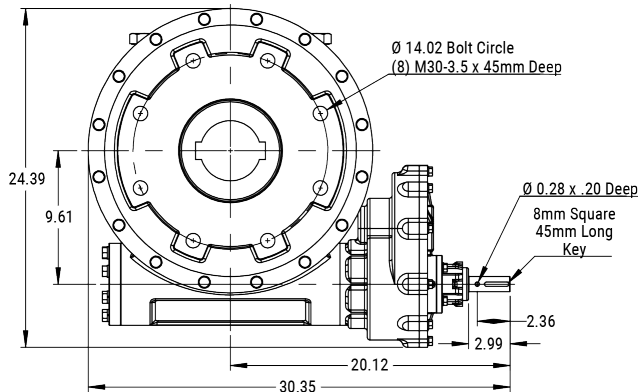
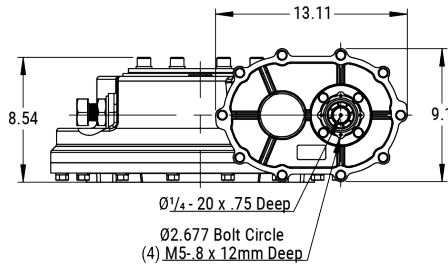
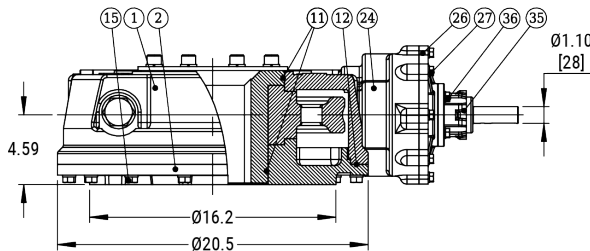
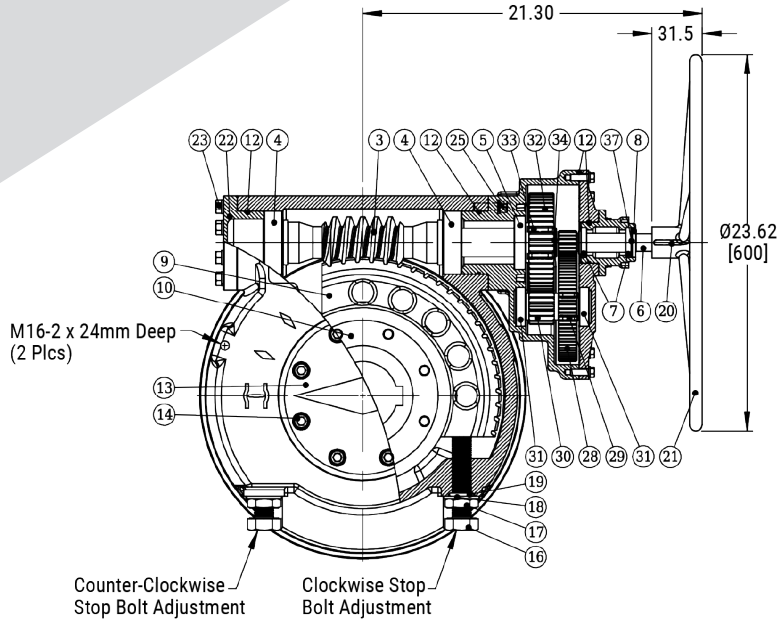
Gear Bore
Sizes G24 through G42

Dimensions (Inches)

	A1		B1		C1	D1	
G24	2.591	+0.004: -0	2.126	+0.004: -0	4.724	0.500	+0.004: -0
G30	3.161	+0.004: -0	2.500	+0.004: -0	5.748	0.625	+0.004: -0
G30E	2.992	+0.004: -0	2.562	+0.004: -0		0.750	+0.004: -0
G36	3.657	+0.004: -0	3.150	+0.004: -0		0.875	+0.004: -0
G36E	2.992	+0.004: -0	2.562	+0.004: -0	7.126	0.750	+0.004: -0
G36EL	3.657	+0.004: -0	3.150	+0.004: -0		0.875	+0.004: -0
G40	4.300	+0.004: -0	3.504	+0.004: -0	7.126	1.0	+0.004: -0
G42	4.300	+0.004: -0	3.504	+0.004: -0	7.126	1.0	+0.004: -0

Gear Operator Series G

Gear Operator G-48



Item No.	Name	Material		No. Req'd
		Standard	High Temp.	
1	Gearcase	Ductile Iron		1
2	Gearcase Base	Ductile Iron		1
3	Worm Shaft	AISI-1045		1
4	Worm Shaft Tapered Bearing	F1 Steel		2
5	Worm Shaft Ball Bearing	F1 Steel		1
6	Input Shaft	42CrMo		1
7	Input Shaft Ball Bearing	F1 Steel		2
8	Oil Seal	NBR	Viton	1
9	Quadrant Gear Drive	Ductile Iron		1
10	Quadrant Bushing	Ductile Iron		1
11	Quadrant Bushing O-Ring	NBR	Viton	2
12	Seal	NBR	Viton	1
13	Index Plate	Steel		1
14	Index Plate Bolt & Washer	AISI 304 SHCS 5/8-11 x 2-1/4in		8
15	Gearcase Base Bolt & Washer	AISI 304 HBOLT 1/2-13 x 1-5/8in		16
16	Stop Bolt	AISI 304 HCS M30-3.5 x 130mm		2
17	Stop Bolt Jam Nut	AISI 304 ~ M30		2
18	Stop Bolt Washer	AISI 304 ~ M30		2
19	Stop Bolt O-Ring	NBR	Viton	2
20	Handwheel Key	Steel 8mm Sq. x 45mm Long		1
21	Handwheel	Ductile Iron		1
22	Gearcase Cap	Ductile Iron		1
23	Gearcase Cap Bolt & Washer	AISI 304 HBOLT 1/2-13 x 1-5/8in		8
24	Spur Gearcase & Worm Shaft Cap	Ductile Iron		1
25	Spur Gearcase & Worm Shaft Cap Bolt & Washer	AISI 304 SHCS 1/2-13 x 1-5/8in		8
26	Spur Gearcase Cap	Ductile Iron		1
27	Spur Gearcase Cap Bolt & Washer	AISI 304 HBOLT 3/8-16 x 1-1/4in		10
28	Idle Spur Gear	42CrMo		1
29	Idle Spur Gear Key	Steel		2
30	Idle Spur Gear Shaft	42CrMo		1
31	Idle Spur Gear Shaft Ball Bearing	F1 Steel		2
32	Worm Shaft Spur Gear	42CrMo		1
33	Worm Shaft Spur Gear Key	Steel		1
34	Worm Shaft Spur Gear Clip	Carbon Steel		1
35	Spur Gearcase Cap	Ductile Iron		1
36	Spur Gearcase Cap Bolt & Washer	AISI 304 HBOLT 3/8-16 x 1in		4
37	Spur Gear Cap Clip	Carbon Steel		1

Technical Data				
Model	Ratio	Handwheel Turns	Input Rim Pull	Output Torque (lbf-in)
G48	900:1	225	89 lbf.ft (120NM)	309,750 (35,000NM)

About ASC Engineered Solutions

ASC Engineered Solutions is defined by quality—in its products, services and support. With more than 1,400 employees, the company's portfolio of precision-engineered piping support, valves and connections provides products to more than 4,000 customers across industries, such as mechanical, industrial, fire protection, oil and gas, and commercial and residential construction. Its portfolio of leading brands includes ABZ Valve®, AFCON®, Anvil®, Anvil EPS, Anvil Services, Basic-PSA, Beck®, Catawissa, Cooplet®, FlexHead®, FPPI®, Gruvlok®, J.B. Smith, Merit®, North Alabama Pipe, Quadrant®, SCI®, Sharpe®, SlideLOK®, SPF® and SprinkFLEX®. With headquarters in Commerce, CA, and Exeter, NH, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.



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