

Model Number Codes and Selection Standard - MSS SP102 & SP101

EIM electric actuator model numbers are coded five (5) digit alpha-numeric, to describe basic actuator features for computer-assisted order entry system. There is a sixth (6th) digit for special services.

The first four (4) digits allow computerized material control of basic components including frame, motor, motor gears, worm gear (including side mount worm and bevel) and interface flange. The fifth digit (to the right of dash) for electric actuators is power voltage provided at job site by user for actuator motor.

To use EIM model number selection charts, determine **RPM** for multi-turn gate, globe and sluice valves, or **seconds** stroke time for 1/4-Turn butterfly, plug and ball valve applications. Move down selection data chart to model having valve stem diameter acceptance, pullout torque (ft-lb) and run torque (ft-lb) for application.

Model number selection charts are based on actuator ratings at **power voltage** listed. Torques shown for run (ft-lb) can be maintained for 15 minute duty before motor or gearbox overheats. Model number for other voltage is obtained by 5th digit modification (see voltage modifier factor chart). For other load conditions contact EIM for application assistance.

Special Services sixth (6th) digit: **F**-Fireproof, **C**-Ceramic, **T**-TEC Only, **B**-ECP Only, **P**-M2CP Only, **M**-MG Unit Only, **E**-Electric M Unit Only, **D**-Electric M Unit Only Ceramic, **S**-Ceramic w/SS Enc

2 1st digit Frame Size and Combinations		C 2nd digit Motor Code		L 3rd digit Motor Gears		G 4th digit Worm gear, Stem maximum, & Bolt circles		3 5th digit Motor Voltage		F 6th digit Special Services																																																																																																																																																																																																																																																																																																											
Multi-turn torque & thrust 1 1000 2 2000 3 3000 4 4000 5 5000 6 6000 7 7000 8 8000 (Y) 9 9000 Side-Mount Bevel (torque & thrust) E 4.25" H 3.25" Full-turn torque (4 turn top-mount) J (1000) K (2000) L (3000) V (4000) Multi-turn torque (no thrust) D 3.25" (1000) U 3.25" (2000) S 4.25" A ARS (anti-rotation stem) B Ball Screw C Ball Screw/Temp comp T Temp comp Multi-turn torque (side-mount worm) F MG/3.25" G MG/4.25" Part-turn torque 1/4T M MG /3.25" W MG/4.25" Part-turn torque (top-mount) P 1/4T Top Q 1/4T Top R 1/4T Top	Electric motors 1700 RPM HP A 1/16 B 1/8 C 1/4 D 1/2 E 3/4 F 1.0 G 1.5 H 1.9 J 3.2 K 4.0 L 5.0 M 6.0 N 7.5 P 8.0 Electric motors 3400 RPM HP Q 2.0 R 3.2 S 4.0 T 100# U 150# V 200# 800 RPM HP B 1/20 1 1/4 8 1/2 125 DC motors 1900 RPM HP A 5# B 10# C 15# D 25# E 40#	Gear Ratio A 9.00 B 7.29 C 6.14 D 6.00 E 4.97 F 4.68 G 4.10 H 3.79 J 3.55 K 3.12 L 3.00 M 2.43 N 2.00 O 1.82 P 1.67 Q 1.53 R 1.40 S 1.18 T 1.00 U 0.85 V 0.71 W 0.64 Y 0.60 Z 0.50 0.54 184 & 215 frm N 1.86 P 1.67 Q 1.50 R 1.35 S 1.22 T 1.00 U 0.82 W 0.67 Z 0.54 254 frm N 1.78 P 1.63 Q 1.50 R 1.38 S 1.27 T 1.00 U 0.85 V 0.72 W 0.67 Y 0.61 Z 0.56	multi-turn top-mount Tq & thrust <table border="1"> <thead> <tr> <th></th> <th>acme</th> <th>BC/screw</th> <th>ratio</th> </tr> </thead> <tbody> <tr><td rowspan="12">1000</td><td>A</td><td>1.38 4.00 3/8 24</td><td>24</td></tr> <tr><td>B</td><td>1.38 3.25 5/16 24</td><td>24</td></tr> <tr><td>C</td><td>1.38 4.00 3/8 48</td><td>48</td></tr> <tr><td></td><td>1.38 3.25 5/16 48</td><td>48</td></tr> <tr><td></td><td>1.38 4.00 3/8 12</td><td>12</td></tr> <tr><td></td><td>1.38 3.25 5/16 12</td><td>12</td></tr> <tr><td colspan="4">1 Pc Drive Sleeve</td></tr> <tr><td>H</td><td>1.75 4.00 3/8 24</td><td>24</td></tr> <tr><td>J</td><td>1.75 4.00 3/8 48</td><td>48</td></tr> <tr><td>K</td><td>1.75 4.00 3/8 12</td><td>12</td></tr> <tr><td>L</td><td>1.75 3.25/4 5/16 24</td><td>24</td></tr> <tr><td>M</td><td>1.75 3.25/4 5/16 48</td><td>48</td></tr> <tr><td>N</td><td>1.75 3.25/4 5/16 12</td><td>12</td></tr> <tr><td rowspan="12">2000</td><td>G</td><td>2.25 5.50 5/8 24</td><td>24</td></tr> <tr><td>H</td><td>2.25 6.50 3/4 24</td><td>24</td></tr> <tr><td>J</td><td>2.25 5.50 5/8 48</td><td>48</td></tr> <tr><td>K</td><td>2.25 5.50 5/8 12</td><td>12</td></tr> <tr><td rowspan="12">3000</td><td>K</td><td>3.00 6.50 3/4 34</td><td>34</td></tr> <tr><td>L</td><td>3.00 6.50 3/4 68</td><td>68</td></tr> <tr><td>M</td><td>3.00 6.50 3/4 17</td><td>17</td></tr> <tr><td rowspan="12">3000A</td><td>A</td><td>3.50 6.50 3/4 34</td><td>34</td></tr> <tr><td>B</td><td>3.50 6.50 3/4 68</td><td>68</td></tr> <tr><td>C</td><td>3.50 6.50 3/4 17</td><td>17</td></tr> <tr><td>D</td><td>3.50 7.50 3/4 34</td><td>34</td></tr> <tr><td>E</td><td>3.50 7.50 3/4 68</td><td>68</td></tr> <tr><td>F</td><td>3.50 7.50 3/4 17</td><td>17</td></tr> <tr><td rowspan="12">4000</td><td>N</td><td>3.50 10.00 5/8 34</td><td>34</td></tr> <tr><td>S</td><td>3.50 10.00 5/8 68</td><td>68</td></tr> <tr><td>T</td><td>3.50 10.00 5/8 17</td><td>17</td></tr> <tr><td rowspan="12">5000</td><td>U</td><td>3.50 11.75 3/4 34</td><td>34</td></tr> <tr><td>V</td><td>3.50 11.75 3/4 68</td><td>68</td></tr> <tr><td>W</td><td>3.50 11.75 3/4 17</td><td>17</td></tr> <tr><td rowspan="12">6000</td><td>A</td><td>3.50 11.75 3/4 34</td><td>34</td></tr> <tr><td>B</td><td>3.50 11.75 3/4 17</td><td>17</td></tr> <tr><td>C</td><td>5.00 14.00 1.25 34</td><td>34</td></tr> <tr><td>D</td><td>5.00 14.00 1.25 17</td><td>17</td></tr> <tr><td>E</td><td>4.50 14.00 1.25 34</td><td>34</td></tr> <tr><td>F</td><td>4.50 14.00 1.25 17</td><td>17</td></tr> <tr><td>G</td><td>5.00 14.00 1.25 68</td><td>68</td></tr> <tr><td rowspan="12">7000</td><td>A</td><td>6.00 16.00 1.25 34</td><td>34</td></tr> <tr><td>B</td><td>6.00 16.00 1.25 17</td><td>17</td></tr> <tr><td>C</td><td>6.00 16.00 1.25 68</td><td>68</td></tr> <tr><td>D</td><td>6.00 16.00 1.25 34</td><td>34</td></tr> <tr><td>E</td><td>6.00 16.00 1.25 17</td><td>17</td></tr> <tr><td>F</td><td>6.00 16.00 1.25 68</td><td>68</td></tr> <tr><td rowspan="12">8000</td><td>A</td><td>6.00 16.00 1.25 52</td><td>52</td></tr> <tr><td>B</td><td>6.00 16.00 1.25 26</td><td>26</td></tr> <tr><td>C</td><td>6.00 16.00 1.25 104</td><td>104</td></tr> <tr><td>D</td><td>7.00 16.00 1.25 52</td><td>52</td></tr> <tr><td>E</td><td>7.00 16.00 1.25 26</td><td>26</td></tr> <tr><td>F</td><td>7.00 16.00 1.25 104</td><td>104</td></tr> </tbody> </table>		acme	BC/screw	ratio	1000	A	1.38 4.00 3/8 24	24	B	1.38 3.25 5/16 24	24	C	1.38 4.00 3/8 48	48		1.38 3.25 5/16 48	48		1.38 4.00 3/8 12	12		1.38 3.25 5/16 12	12	1 Pc Drive Sleeve				H	1.75 4.00 3/8 24	24	J	1.75 4.00 3/8 48	48	K	1.75 4.00 3/8 12	12	L	1.75 3.25/4 5/16 24	24	M	1.75 3.25/4 5/16 48	48	N	1.75 3.25/4 5/16 12	12	2000	G	2.25 5.50 5/8 24	24	H	2.25 6.50 3/4 24	24	J	2.25 5.50 5/8 48	48	K	2.25 5.50 5/8 12	12	3000	K	3.00 6.50 3/4 34	34	L	3.00 6.50 3/4 68	68	M	3.00 6.50 3/4 17	17	3000A	A	3.50 6.50 3/4 34	34	B	3.50 6.50 3/4 68	68	C	3.50 6.50 3/4 17	17	D	3.50 7.50 3/4 34	34	E	3.50 7.50 3/4 68	68	F	3.50 7.50 3/4 17	17	4000	N	3.50 10.00 5/8 34	34	S	3.50 10.00 5/8 68	68	T	3.50 10.00 5/8 17	17	5000	U	3.50 11.75 3/4 34	34	V	3.50 11.75 3/4 68	68	W	3.50 11.75 3/4 17	17	6000	A	3.50 11.75 3/4 34	34	B	3.50 11.75 3/4 17	17	C	5.00 14.00 1.25 34	34	D	5.00 14.00 1.25 17	17	E	4.50 14.00 1.25 34	34	F	4.50 14.00 1.25 17	17	G	5.00 14.00 1.25 68	68	7000	A	6.00 16.00 1.25 34	34	B	6.00 16.00 1.25 17	17	C	6.00 16.00 1.25 68	68	D	6.00 16.00 1.25 34	34	E	6.00 16.00 1.25 17	17	F	6.00 16.00 1.25 68	68	8000	A	6.00 16.00 1.25 52	52	B	6.00 16.00 1.25 26	26	C	6.00 16.00 1.25 104	104	D	7.00 16.00 1.25 52	52	E	7.00 16.00 1.25 26	26	F	7.00 16.00 1.25 104	104	multi-turn torque only <table border="1"> <thead> <tr> <th></th> <th>bore</th> <th>BC/screw</th> <th>worm</th> </tr> </thead> <tbody> <tr><td rowspan="6">D</td><td>A</td><td>1.25 4.00 3/8 24</td><td>24</td></tr> <tr><td>B</td><td>1.25 4.00 3/8 48</td><td>48</td></tr> <tr><td>C</td><td>1.25 4.00 3/8 12</td><td>12</td></tr> <tr><td rowspan="3">U</td><td>A</td><td>2.00 5.50 5/8 24</td><td>24</td></tr> <tr><td>B</td><td>2.00 5.50 5/8 48</td><td>48</td></tr> <tr><td>C</td><td>2.00 5.50 5/8 12</td><td>12</td></tr> <tr><td rowspan="6">S</td><td>K</td><td>2.00 6.50 3/4 34</td><td>34</td></tr> <tr><td>L</td><td>2.00 6.50 3/4 68</td><td>68</td></tr> <tr><td>M</td><td>2.00 6.50 3/4 17</td><td>17</td></tr> <tr><td>N</td><td>2.00 10.00 5/8 34</td><td>34</td></tr> <tr><td>P</td><td>2.00 10.00 5/8 17</td><td>17</td></tr> <tr><td></td><td>2.00 10.00 5/8 17</td><td>17</td></tr> </tbody> </table>		bore	BC/screw	worm	D	A	1.25 4.00 3/8 24	24	B	1.25 4.00 3/8 48	48	C	1.25 4.00 3/8 12	12	U	A	2.00 5.50 5/8 24	24	B	2.00 5.50 5/8 48	48	C	2.00 5.50 5/8 12	12	S	K	2.00 6.50 3/4 34	34	L	2.00 6.50 3/4 68	68	M	2.00 6.50 3/4 17	17	N	2.00 10.00 5/8 34	34	P	2.00 10.00 5/8 17	17		2.00 10.00 5/8 17	17	multi-turn side-mount to MG <table border="1"> <thead> <tr> <th>worm :1</th> <th>actuator</th> <th>worm gear</th> </tr> <tr> <th>24 12</th> <th>bore BC</th> <th>MG ratio</th> </tr> </thead> <tbody> <tr><td rowspan="10">F</td><td>A</td><td>2.00 6.50 01 67</td><td>67</td></tr> <tr><td>J</td><td>3.25 6.50 02 67</td><td>67</td></tr> <tr><td>L</td><td>5.00 11.75 03 64</td><td>64</td></tr> <tr><td>F</td><td>5.00 11.75 03 85</td><td>85</td></tr> <tr><td>O</td><td>6.00 16.00 05 90</td><td>90</td></tr> <tr><td rowspan="10">G</td><td>R</td><td>7.00 16.00 05 90</td><td>90</td></tr> <tr><td>U</td><td>8.00 19.00 07 100</td><td>100</td></tr> <tr><td>B</td><td>8.00 19.00 07 344</td><td>344</td></tr> <tr><td>S</td><td>12.00 29.00 08 100</td><td>100</td></tr> <tr><td>G</td><td>12.00 29.00 08 200</td><td>200</td></tr> <tr><td colspan="3">34 17</td></tr> <tr><td colspan="3">side-mount to bevel gear</td></tr> <tr><td colspan="3">worm:1 actuator bevel gear</td></tr> <tr><td colspan="3">24 12 acme BC BT ratio</td></tr> <tr><td>A</td><td>B</td><td></td><td></td></tr> <tr><td>C</td><td>D</td><td></td><td></td></tr> <tr><td>E</td><td>F</td><td>2.88 10.00 01 4.1</td><td>4.1</td></tr> <tr><td>G</td><td>H</td><td>3.00 11.75 02 6.0</td><td>6.0</td></tr> <tr><td>J</td><td>K</td><td>4.00 14.00 03 6.0</td><td>6.0</td></tr> <tr><td colspan="3">34 17</td></tr> <tr><td>L</td><td>M</td><td></td><td></td></tr> <tr><td>N</td><td>P</td><td>3.00 11.75 02 6.0</td><td>6.0</td></tr> <tr><td>Q</td><td>R</td><td>4.00 14.00 03 6.0</td><td>6.0</td></tr> <tr><td>S</td><td>T</td><td>4.50 16.00 04 6.0</td><td>6.0</td></tr> <tr><td>U</td><td>V</td><td>4.50 16.00 08 8.0</td><td>8.0</td></tr> </tbody> </table>	worm :1	actuator	worm gear	24 12	bore BC	MG ratio	F	A	2.00 6.50 01 67	67	J	3.25 6.50 02 67	67	L	5.00 11.75 03 64	64	F	5.00 11.75 03 85	85	O	6.00 16.00 05 90	90	G	R	7.00 16.00 05 90	90	U	8.00 19.00 07 100	100	B	8.00 19.00 07 344	344	S	12.00 29.00 08 100	100	G	12.00 29.00 08 200	200	34 17			side-mount to bevel gear			worm:1 actuator bevel gear			24 12 acme BC BT ratio			A	B			C	D			E	F	2.88 10.00 01 4.1	4.1	G	H	3.00 11.75 02 6.0	6.0	J	K	4.00 14.00 03 6.0	6.0	34 17			L	M			N	P	3.00 11.75 02 6.0	6.0	Q	R	4.00 14.00 03 6.0	6.0	S	T	4.50 16.00 04 6.0	6.0	U	V	4.50 16.00 08 8.0	8.0	Volts Φ Hz 1 208 ac 3 60 2 230 ac 3 60 3 460 ac 3 60 T 460 ac 3 50 4 575 ac 3 60 5 380 ac 3 50 N 380 ac 3 60 6 115 ac 1 60 7 208 ac 1 60 8 230 ac 1 60 9 415 ac 3 50 K 220 ac 1 50 P 220 ac 3 50 L 115 ac 1 50 D 230/460 3 60 Q 230/460 3 25 R 550 ac 3 50 S 660 ac 3 60 A 400 ac 3 50 Futronic III ac Pwr, dc Mtr B 115 ac 1 60 C 230 ac 1 60 M 220 ac 1 50 dc Motors E 12 dc F 24 dc G 48 dc H 125 dc J 250 dc
					acme	BC/screw	ratio																																																																																																																																																																																																																																																																																																														
				1000	A	1.38 4.00 3/8 24	24																																																																																																																																																																																																																																																																																																														
					B	1.38 3.25 5/16 24	24																																																																																																																																																																																																																																																																																																														
					C	1.38 4.00 3/8 48	48																																																																																																																																																																																																																																																																																																														
						1.38 3.25 5/16 48	48																																																																																																																																																																																																																																																																																																														
						1.38 4.00 3/8 12	12																																																																																																																																																																																																																																																																																																														
						1.38 3.25 5/16 12	12																																																																																																																																																																																																																																																																																																														
					1 Pc Drive Sleeve																																																																																																																																																																																																																																																																																																																
					H	1.75 4.00 3/8 24	24																																																																																																																																																																																																																																																																																																														
J	1.75 4.00 3/8 48	48																																																																																																																																																																																																																																																																																																																			
K	1.75 4.00 3/8 12	12																																																																																																																																																																																																																																																																																																																			
L	1.75 3.25/4 5/16 24	24																																																																																																																																																																																																																																																																																																																			
M	1.75 3.25/4 5/16 48	48																																																																																																																																																																																																																																																																																																																			
N	1.75 3.25/4 5/16 12	12																																																																																																																																																																																																																																																																																																																			
2000	G	2.25 5.50 5/8 24	24																																																																																																																																																																																																																																																																																																																		
	H	2.25 6.50 3/4 24	24																																																																																																																																																																																																																																																																																																																		
	J	2.25 5.50 5/8 48	48																																																																																																																																																																																																																																																																																																																		
	K	2.25 5.50 5/8 12	12																																																																																																																																																																																																																																																																																																																		
	3000	K	3.00 6.50 3/4 34	34																																																																																																																																																																																																																																																																																																																	
		L	3.00 6.50 3/4 68	68																																																																																																																																																																																																																																																																																																																	
		M	3.00 6.50 3/4 17	17																																																																																																																																																																																																																																																																																																																	
		3000A	A	3.50 6.50 3/4 34	34																																																																																																																																																																																																																																																																																																																
			B	3.50 6.50 3/4 68	68																																																																																																																																																																																																																																																																																																																
			C	3.50 6.50 3/4 17	17																																																																																																																																																																																																																																																																																																																
			D	3.50 7.50 3/4 34	34																																																																																																																																																																																																																																																																																																																
			E	3.50 7.50 3/4 68	68																																																																																																																																																																																																																																																																																																																
F			3.50 7.50 3/4 17	17																																																																																																																																																																																																																																																																																																																	
4000			N	3.50 10.00 5/8 34	34																																																																																																																																																																																																																																																																																																																
			S	3.50 10.00 5/8 68	68																																																																																																																																																																																																																																																																																																																
			T	3.50 10.00 5/8 17	17																																																																																																																																																																																																																																																																																																																
	5000		U	3.50 11.75 3/4 34	34																																																																																																																																																																																																																																																																																																																
			V	3.50 11.75 3/4 68	68																																																																																																																																																																																																																																																																																																																
			W	3.50 11.75 3/4 17	17																																																																																																																																																																																																																																																																																																																
		6000	A	3.50 11.75 3/4 34	34																																																																																																																																																																																																																																																																																																																
			B	3.50 11.75 3/4 17	17																																																																																																																																																																																																																																																																																																																
			C	5.00 14.00 1.25 34	34																																																																																																																																																																																																																																																																																																																
			D	5.00 14.00 1.25 17	17																																																																																																																																																																																																																																																																																																																
			E	4.50 14.00 1.25 34	34																																																																																																																																																																																																																																																																																																																
			F	4.50 14.00 1.25 17	17																																																																																																																																																																																																																																																																																																																
G			5.00 14.00 1.25 68	68																																																																																																																																																																																																																																																																																																																	
7000			A	6.00 16.00 1.25 34	34																																																																																																																																																																																																																																																																																																																
			B	6.00 16.00 1.25 17	17																																																																																																																																																																																																																																																																																																																
	C		6.00 16.00 1.25 68	68																																																																																																																																																																																																																																																																																																																	
	D		6.00 16.00 1.25 34	34																																																																																																																																																																																																																																																																																																																	
	E		6.00 16.00 1.25 17	17																																																																																																																																																																																																																																																																																																																	
	F	6.00 16.00 1.25 68	68																																																																																																																																																																																																																																																																																																																		
	8000	A	6.00 16.00 1.25 52	52																																																																																																																																																																																																																																																																																																																	
		B	6.00 16.00 1.25 26	26																																																																																																																																																																																																																																																																																																																	
		C	6.00 16.00 1.25 104	104																																																																																																																																																																																																																																																																																																																	
		D	7.00 16.00 1.25 52	52																																																																																																																																																																																																																																																																																																																	
		E	7.00 16.00 1.25 26	26																																																																																																																																																																																																																																																																																																																	
		F	7.00 16.00 1.25 104	104																																																																																																																																																																																																																																																																																																																	
		bore	BC/screw	worm																																																																																																																																																																																																																																																																																																																	
D		A	1.25 4.00 3/8 24	24																																																																																																																																																																																																																																																																																																																	
		B	1.25 4.00 3/8 48	48																																																																																																																																																																																																																																																																																																																	
		C	1.25 4.00 3/8 12	12																																																																																																																																																																																																																																																																																																																	
		U	A	2.00 5.50 5/8 24	24																																																																																																																																																																																																																																																																																																																
			B	2.00 5.50 5/8 48	48																																																																																																																																																																																																																																																																																																																
	C		2.00 5.50 5/8 12	12																																																																																																																																																																																																																																																																																																																	
S	K	2.00 6.50 3/4 34	34																																																																																																																																																																																																																																																																																																																		
	L	2.00 6.50 3/4 68	68																																																																																																																																																																																																																																																																																																																		
	M	2.00 6.50 3/4 17	17																																																																																																																																																																																																																																																																																																																		
	N	2.00 10.00 5/8 34	34																																																																																																																																																																																																																																																																																																																		
	P	2.00 10.00 5/8 17	17																																																																																																																																																																																																																																																																																																																		
		2.00 10.00 5/8 17	17																																																																																																																																																																																																																																																																																																																		
worm :1	actuator	worm gear																																																																																																																																																																																																																																																																																																																			
24 12	bore BC	MG ratio																																																																																																																																																																																																																																																																																																																			
F	A	2.00 6.50 01 67	67																																																																																																																																																																																																																																																																																																																		
	J	3.25 6.50 02 67	67																																																																																																																																																																																																																																																																																																																		
	L	5.00 11.75 03 64	64																																																																																																																																																																																																																																																																																																																		
	F	5.00 11.75 03 85	85																																																																																																																																																																																																																																																																																																																		
	O	6.00 16.00 05 90	90																																																																																																																																																																																																																																																																																																																		
	G	R	7.00 16.00 05 90	90																																																																																																																																																																																																																																																																																																																	
		U	8.00 19.00 07 100	100																																																																																																																																																																																																																																																																																																																	
		B	8.00 19.00 07 344	344																																																																																																																																																																																																																																																																																																																	
		S	12.00 29.00 08 100	100																																																																																																																																																																																																																																																																																																																	
		G	12.00 29.00 08 200	200																																																																																																																																																																																																																																																																																																																	
34 17																																																																																																																																																																																																																																																																																																																					
side-mount to bevel gear																																																																																																																																																																																																																																																																																																																					
worm:1 actuator bevel gear																																																																																																																																																																																																																																																																																																																					
24 12 acme BC BT ratio																																																																																																																																																																																																																																																																																																																					
A		B																																																																																																																																																																																																																																																																																																																			
C	D																																																																																																																																																																																																																																																																																																																				
E	F	2.88 10.00 01 4.1	4.1																																																																																																																																																																																																																																																																																																																		
G	H	3.00 11.75 02 6.0	6.0																																																																																																																																																																																																																																																																																																																		
J	K	4.00 14.00 03 6.0	6.0																																																																																																																																																																																																																																																																																																																		
34 17																																																																																																																																																																																																																																																																																																																					
L	M																																																																																																																																																																																																																																																																																																																				
N	P	3.00 11.75 02 6.0	6.0																																																																																																																																																																																																																																																																																																																		
Q	R	4.00 14.00 03 6.0	6.0																																																																																																																																																																																																																																																																																																																		
S	T	4.50 16.00 04 6.0	6.0																																																																																																																																																																																																																																																																																																																		
U	V	4.50 16.00 08 8.0	8.0																																																																																																																																																																																																																																																																																																																		
1/4 turn top-mount <table border="1"> <thead> <tr> <th></th> <th>bore</th> <th>BC/screw</th> <th>worm</th> </tr> </thead> <tbody> <tr><td rowspan="2">P</td><td>1</td><td>1.13 4.00 3/8 48</td><td>48</td></tr> <tr><td>2</td><td>2.00 4.95 1/2 48</td><td>48</td></tr> <tr><td rowspan="2">Q</td><td>5</td><td>2.00 4.95 1/2 24</td><td>24</td></tr> <tr><td>K</td><td>2.00 5.50 5/8 24</td><td>24</td></tr> <tr><td rowspan="2">R</td><td>6</td><td>3.25 6.50 3/4 68</td><td>68</td></tr> <tr><td>K</td><td>3.25 6.50 3/4 34</td><td>34</td></tr> </tbody> </table>		bore	BC/screw	worm	P	1	1.13 4.00 3/8 48	48	2	2.00 4.95 1/2 48	48	Q	5	2.00 4.95 1/2 24	24	K	2.00 5.50 5/8 24	24	R	6	3.25 6.50 3/4 68	68	K	3.25 6.50 3/4 34	34	4-turn top-mount torque <table border="1"> <thead> <tr> <th></th> <th>bore</th> <th>BC/screw</th> <th>worm</th> </tr> </thead> <tbody> <tr><td rowspan="3">J</td><td>A</td><td>1.25 4.00 3/8 24</td><td>24</td></tr> <tr><td>B</td><td>1.25 4.00 3/8 48</td><td>48</td></tr> <tr><td>C</td><td>1.25 4.00 3/8 12</td><td>12</td></tr> <tr><td rowspan="2">K</td><td>H</td><td>2.00 5.50 5/8 24</td><td>24</td></tr> <tr><td>J</td><td>2.00 5.50 5/8 48</td><td>48</td></tr> <tr><td rowspan="2">L</td><td>K</td><td>2.50 6.50 3/4 34</td><td>34</td></tr> <tr><td>L</td><td>2.50 6.50 3/4 68</td><td>68</td></tr> <tr><td rowspan="2">V</td><td>M</td><td>2.00 6.50 3/4 34</td><td>34</td></tr> <tr><td>N</td><td>2.00 6.50 3/4 68</td><td>68</td></tr> </tbody> </table>		bore	BC/screw	worm	J	A	1.25 4.00 3/8 24	24	B	1.25 4.00 3/8 48	48	C	1.25 4.00 3/8 12	12	K	H	2.00 5.50 5/8 24	24	J	2.00 5.50 5/8 48	48	L	K	2.50 6.50 3/4 34	34	L	2.50 6.50 3/4 68	68	V	M	2.00 6.50 3/4 34	34	N	2.00 6.50 3/4 68	68	1/4 turn side-mount to MG <table border="1"> <thead> <tr> <th>worm :1</th> <th>actuator</th> <th>gear</th> </tr> <tr> <th>48 24 12</th> <th>bore BC</th> <th>MG ratio</th> </tr> </thead> <tbody> <tr><td rowspan="10">M</td><td>B</td><td>2 K 2.00 6.50 01 67</td><td>67</td></tr> <tr><td>A</td><td>1 J 3.25 6.50 02 67</td><td>67</td></tr> <tr><td>C</td><td>3 L 4.00 11.75 03 64</td><td>64</td></tr> <tr><td>D</td><td>4 V 5.00 11.75 03 64</td><td>64</td></tr> <tr><td>R</td><td>W S 5.00 11.75 03 220</td><td>220</td></tr> <tr><td>H</td><td>Q M 5.00 16.00 05 90</td><td>90</td></tr> <tr><td>E</td><td>5 O 6.00 16.00 05 90</td><td>90</td></tr> <tr><td>F</td><td>6 N 7.00 16.00 05 90</td><td>90</td></tr> <tr><td>Z</td><td>Y T 7.00 16.00 05 310</td><td>310</td></tr> <tr><td>G</td><td>7 P 8.00 19.00 07 344</td><td>344</td></tr> <tr><td colspan="3">68 34 17 bore BC MG ratio</td></tr> <tr><td>A</td><td>R U 7.00 16.00 05 90</td><td>90</td></tr> <tr><td>C</td><td>D E 7.00 16.00 05 310</td><td>310</td></tr> <tr><td>S</td><td>T B 8.00 19.00 07 344</td><td>344</td></tr> <tr><td>8</td><td>H K 12.00 29.00 08 200</td><td>200</td></tr> </tbody> </table>	worm :1	actuator	gear	48 24 12	bore BC	MG ratio	M	B	2 K 2.00 6.50 01 67	67	A	1 J 3.25 6.50 02 67	67	C	3 L 4.00 11.75 03 64	64	D	4 V 5.00 11.75 03 64	64	R	W S 5.00 11.75 03 220	220	H	Q M 5.00 16.00 05 90	90	E	5 O 6.00 16.00 05 90	90	F	6 N 7.00 16.00 05 90	90	Z	Y T 7.00 16.00 05 310	310	G	7 P 8.00 19.00 07 344	344	68 34 17 bore BC MG ratio			A	R U 7.00 16.00 05 90	90	C	D E 7.00 16.00 05 310	310	S	T B 8.00 19.00 07 344	344	8	H K 12.00 29.00 08 200	200	multi-turn anti-rotation stem <table border="1"> <thead> <tr> <th>worm:1</th> <th>valve type</th> </tr> <tr> <th>48 24 68 34</th> <th></th> </tr> </thead> <tbody> <tr><td rowspan="6">A</td><td>A B</td><td>Masonlean 21,000</td></tr> <tr><td></td><td>Copes-Vulcan</td></tr> <tr><td></td><td>Fisher</td></tr> <tr><td></td><td>CCI</td></tr> <tr><td></td><td>Valtek</td></tr> <tr><td></td><td>Atwood & Morrill</td></tr> </tbody> </table>	worm:1	valve type	48 24 68 34		A	A B	Masonlean 21,000		Copes-Vulcan		Fisher		CCI		Valtek		Atwood & Morrill																																																																																																																																																																																	
		bore	BC/screw	worm																																																																																																																																																																																																																																																																																																																	
	P	1	1.13 4.00 3/8 48	48																																																																																																																																																																																																																																																																																																																	
		2	2.00 4.95 1/2 48	48																																																																																																																																																																																																																																																																																																																	
	Q	5	2.00 4.95 1/2 24	24																																																																																																																																																																																																																																																																																																																	
		K	2.00 5.50 5/8 24	24																																																																																																																																																																																																																																																																																																																	
	R	6	3.25 6.50 3/4 68	68																																																																																																																																																																																																																																																																																																																	
		K	3.25 6.50 3/4 34	34																																																																																																																																																																																																																																																																																																																	
		bore	BC/screw	worm																																																																																																																																																																																																																																																																																																																	
	J	A	1.25 4.00 3/8 24	24																																																																																																																																																																																																																																																																																																																	
B		1.25 4.00 3/8 48	48																																																																																																																																																																																																																																																																																																																		
C		1.25 4.00 3/8 12	12																																																																																																																																																																																																																																																																																																																		
K	H	2.00 5.50 5/8 24	24																																																																																																																																																																																																																																																																																																																		
	J	2.00 5.50 5/8 48	48																																																																																																																																																																																																																																																																																																																		
L	K	2.50 6.50 3/4 34	34																																																																																																																																																																																																																																																																																																																		
	L	2.50 6.50 3/4 68	68																																																																																																																																																																																																																																																																																																																		
V	M	2.00 6.50 3/4 34	34																																																																																																																																																																																																																																																																																																																		
	N	2.00 6.50 3/4 68	68																																																																																																																																																																																																																																																																																																																		
worm :1	actuator	gear																																																																																																																																																																																																																																																																																																																			
48 24 12	bore BC	MG ratio																																																																																																																																																																																																																																																																																																																			
M	B	2 K 2.00 6.50 01 67	67																																																																																																																																																																																																																																																																																																																		
	A	1 J 3.25 6.50 02 67	67																																																																																																																																																																																																																																																																																																																		
	C	3 L 4.00 11.75 03 64	64																																																																																																																																																																																																																																																																																																																		
	D	4 V 5.00 11.75 03 64	64																																																																																																																																																																																																																																																																																																																		
	R	W S 5.00 11.75 03 220	220																																																																																																																																																																																																																																																																																																																		
	H	Q M 5.00 16.00 05 90	90																																																																																																																																																																																																																																																																																																																		
	E	5 O 6.00 16.00 05 90	90																																																																																																																																																																																																																																																																																																																		
	F	6 N 7.00 16.00 05 90	90																																																																																																																																																																																																																																																																																																																		
	Z	Y T 7.00 16.00 05 310	310																																																																																																																																																																																																																																																																																																																		
	G	7 P 8.00 19.00 07 344	344																																																																																																																																																																																																																																																																																																																		
68 34 17 bore BC MG ratio																																																																																																																																																																																																																																																																																																																					
A	R U 7.00 16.00 05 90	90																																																																																																																																																																																																																																																																																																																			
C	D E 7.00 16.00 05 310	310																																																																																																																																																																																																																																																																																																																			
S	T B 8.00 19.00 07 344	344																																																																																																																																																																																																																																																																																																																			
8	H K 12.00 29.00 08 200	200																																																																																																																																																																																																																																																																																																																			
worm:1	valve type																																																																																																																																																																																																																																																																																																																				
48 24 68 34																																																																																																																																																																																																																																																																																																																					
A	A B	Masonlean 21,000																																																																																																																																																																																																																																																																																																																			
		Copes-Vulcan																																																																																																																																																																																																																																																																																																																			
		Fisher																																																																																																																																																																																																																																																																																																																			
		CCI																																																																																																																																																																																																																																																																																																																			
		Valtek																																																																																																																																																																																																																																																																																																																			
		Atwood & Morrill																																																																																																																																																																																																																																																																																																																			

N Navy DOD-V-2465
See Pg D69 for Navy Model Codes

Details of components furnished are shown on EIM Job Spec Sheet and drawings furnished for specific job.

(11/1/2007)