

# Compact Valve Automation



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## Worm Gear Drive 177 to 17,600inlbs Quarter Turn Automation

### Ball Bearing Reliability

Ball bearings on both the inner and outer rotor shaft provide greater reliability.

### Travel Switches

10amp SPDT with position feedback.

### High Strength Heat Treated Gears

One piece worm and output shaft for strength.

### Optional Heater & Thermostat

Other options available.

### Optional Handwheel Override

Manual Operation is accomplished by pushing to engage gearing. Automatic spring dis-engage. Standard units are supplied with a hex wrench.



Standard Features:

Compact - Reliable:



### Ideal for butterfly valve automation.

Because of the worm drive gear, the NL unit is ideally suited for rubberlined butterfly valves. Worm gears are typically used on applications to prevent back driving which causes excessive valve oscillations.

### Modulating Control with Digital Calibration

4-20mA input allows complete control over valve position. Push button setup is digitally stored. Comes standard with 4-20mA output.

### Optional Motor Voltages

115Vac, 230Vac  
380Vac  
12, 24Vdc  
consult factory for other voltages

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\*Requires longer side cover on NL1 and NL4 models. Controller fits into same housing on all other models.

### Relays, feedback sensors,...

Consult factory for custom electrical requirements.

Options:

# Superior Valve Automation

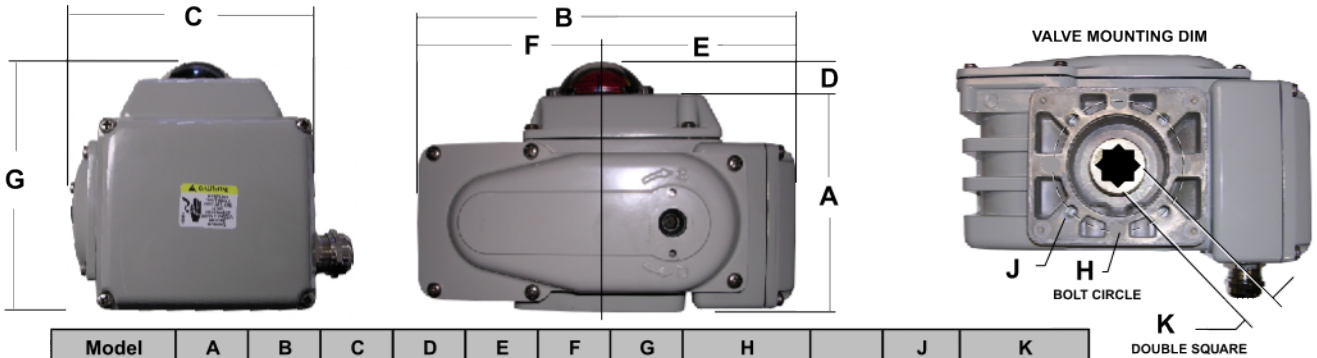


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Performance:

Model	Output Torque		Current amperes	Speed Sec/90	Optional Sec/90	Weight	
	in-lbs	N-m				Lbs	Kg
NL1	177	20	0.5	10	-	4	2
NL4	440	50	0.5	20	-	4	2
NL8	880	100	0.9	30	60	9	4.3
NL1.4K	1,440	160	0.9	30	60	9	4.3
NL1.7K	1,760	200	1	30	60	17	7.8
NL2.2K	2,200	250	1	30	60	17	7.8
NL3.5K	3,520	400	2	30	60	18	8
NL4.4K	4,400	500	2	30	60	18	8
NL8.8K	8,800	1,000	2	50	60	26	12
NL17.6K	17,600	2,000	2	60	100	26	12

Dimensional:



Model	A	B	C	D	E	F	G	H		J	K
NL1	4.6	6.1	4.0	1.1	2.7	3.4	5.7	1.97 (50)	F05	M6x4	.551 (14)
NL4	4.6	6.1	4.0	1.1	2.7	3.4	5.7	1.97 (50)	F05	M6x4	.551 (14)
NL8	4.8	8.2	4.7	1.1	4.3	3.9	5.9	2.76 (70)	F07	M6x4	.669 (17)
NL1.4K	4.8	8.2	4.7	1.1	4.3	3.9	5.9	2.76 (70)	F07	M6x4	.669 (17)
NL1.7K	5.7	10.1	6.1	1.1	5.2	4.8	6.9	4.02 (102)	F10	M10x4	.866 (22)
NL2.2K	5.7	10.1	6.1	1.1	5.2	4.8	6.9	4.02 (102)	F10	M10x4	.866 (22)
NL3.5K	5.7	10.1	6.1	1.1	5.2	4.8	6.9	4.92 (125)	F12	M10x4	1.063 (27)
NL4.4K	5.7	10.1	6.1	1.1	5.2	4.8	6.9	4.92 (125)	F12	M10x4	1.063 (27)
NL8.8K	6.2	11.0	6.1	1.1	6.0	5.0	7.3	5.51 (140)	F14	M16x4	1.063 (27)
NL17.6K	6.2	11.0	6.1	1.1	6.0	5.0	7.3	5.51 (140)	F14	M16x4	1.260 (32)

## EV and NV Series

See Bulletins B00016 and B00020 for smaller sized electric actuators from Valvsys. Torques from 125 inlbs to 1,000 inlbs.

## Control Boxes

NEM4, NEMA 7, and non-metallic control boxes for on/off, remote control, "jogging", and other specific and custom wired functions. Consult Factory.

Options:

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