



**Visual Dial
Position Indicator**

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

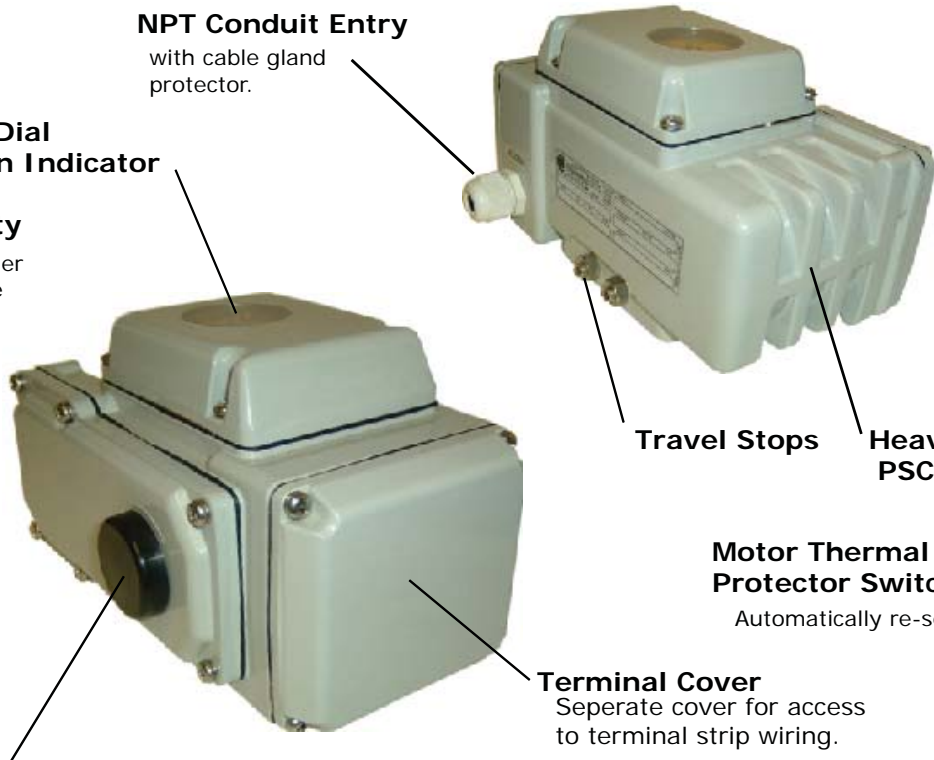
Other options available.

Worm Gear Drive

Manual Operation is accomplished by removing the dust cover and simply turning the gear with the supplied hex wrench.

NPT Conduit Entry

with cable gland protector.



Travel Stops

**Heavy Duty
PSC Motor**

**Motor Thermal
Protector Switch**

Automatically re-setting

Terminal Cover

Separate cover for access to terminal strip wiring.

IP65 Design Housing Protection

Similar to NEMA 12 for protection against dust and water jet spray.

Standard Features:

Compact - Reliable:

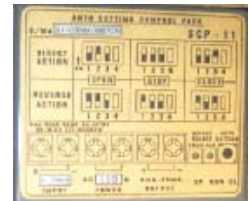


**Ideal for
butterfly valve
automation.**

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.



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

**Optional Motor
Voltages**

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

**Relays, feedback
sensors,...**

Consult factory for custom electrical requirements.

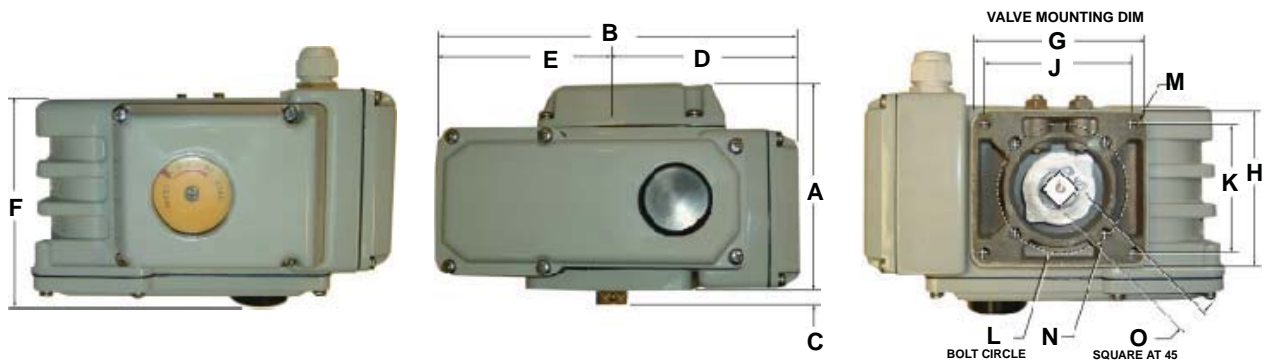
Options:

B00033-04

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
NL1.7K	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	30	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	L	M	N	O
NL1	4.5	6.1	0.4	2.7	3.4	4.0	3.1	2.8	2.7	2.4	2.8	M6	M8	0.472
NL4	4.5	6.1	0.4	2.7	3.4	4.0	3.1	2.8	2.7	2.4	2.8	M6	M8	0.472
NL8	4.5	8.2	0.6	4.3	3.9	4.7	3.9	3.4	3.2	2.8	2.8	M6	M8	0.591
NL1.7K	5.6	10.1	0.9	5.2	4.8	6.1	5.3	4.2	4.6	3.3	4.0	M10	M10	0.906
NL2.2K	5.6	10.1	0.9	5.2	4.8	6.1	5.3	4.2	4.6	3.3	4.0	M10	M10	0.906
NL3.5K	5.6	10.1	0.9	5.2	4.8	6.1	5.3	4.2	4.6	3.3	4.0	M10	M10	0.906
NL4.4K	5.6	10.1	0.9	5.2	4.8	6.1	5.3	4.2	4.6	3.3	4.0	M10	M10	0.906
NL8.8K	6.7	11.0	1.0	6.0	5.0	6.1	6.7	4.2	4.6	3.3	N/A	M12	N/A	1.181
NL17.6K	6.7	11.0	1.0	6.0	5.0	6.1	6.7	4.2	4.6	3.3	N/A	M12	N/A	1.181

BI-TORQ VALVE AUTOMATION
 1N050 LINLAR DRIVE
 P.O. Box 309
 LA FOX, IL 60147
 TEL: 630-208-9343
 FAX: 630-232-6235
 E-MAIL: SALES@BITORQ.COM

Anything's Possible. Just Ask.

