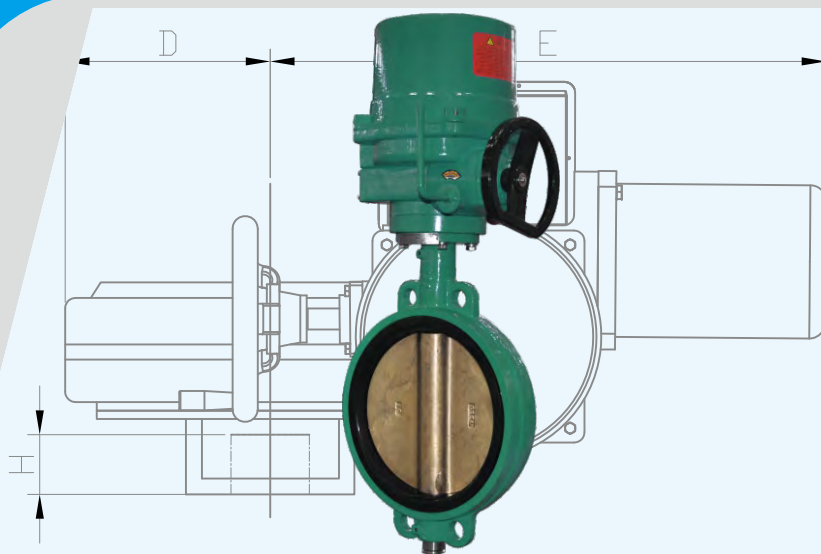




ensures high precise position setting.
 Motor overcurrent protection
 Inner component can automatically
 off to prevent damage
 when torque.

Open
 Arrow
 opt
 Op
 Dis
 inj



Multi-turn actuator

QT SERIES QUARTER TURN ELECTRIC ACTUATOR

"NEUMAX" QT Series Quarter Turn Electric Actuator

'QT' series electric actuators are designed & engineered for robust, reliable and for high performance duty onto quarter turn valves. The unique reliable motor module, adjustable cam plate limit switch, self locking mechanism, precision gearing system and ball bearings, the auto declutching mechanism, light force load on the hand-wheel, the adaptor drive bushing and bottom ISO 5211 mounting dimension, are added advantages against others in the field of valve automation. **CE approved.** FM & UL pending.

Features

1. **ENCLOSURE**
Standard enclosure to water jet proof & water tight proof IP 67, NEMA 4 & 6.
Explosion proof version is available on request.
2. **MOTOR**
Squirrel cage motor is of encapsulated type, on high stall torque and low inherent force for seating & unseating of valves. All motors are integrated with build-in thermal protection.
3. **TERMINAL CONNECTION & WIRING**
Terminal connection are of "WAGO" push on type, making wiring connection very easy & without fuss. Electrical wiring circuit are standardized for single & three phase voltage. Addition termination is available on request.
4. **INTERNAL COMPONENTS ARRANGEMENT**
Internal mechanical and electrical components are designed in modular mounting arrangement, and can be easily removed for maintenance purposes. Addition optional accessories are also possible.
5. **LIMIT SWITCHES**
A pair of limit switches are activated by means of simple, reliable & adjustable cam plates, mounted directly onto, and driven by center column. The unique cam plate design does not allows over travel of limit switches.
6. **TORQUE SWITCHES**
Electric actuators on 100 Nm and above, are installed with torque switches for over-load protection.
7. **HEATER**
For prevention of condensation due to weather & temperature changes, and also keeps internal components clean & dry, a 20 watt space heater is provided inside all the electric actuators.
8. **SELF LOCKING MECHANISM**
Because of the worm gear design system, all the electric actuators are self locking.
9. **HANDWHEEL**
Correct size of hand-wheel on the electric actuator ensure adequate strength for safe and efficient emergency operation.
10. **MANUAL OVER-RIDE**
Engage by pulling the lever & turning the hand-wheel. Lever is auto declutch when power supply is switched on, and hand-wheel does not turn as extra safety feature.
11. **VISUAL POSITION INDICATOR**
The visual position indicator is directly mounted onto the center drive column, to provide true visual position of the valve.
12. **END STOPPERS**
1 each for open & close position (adjustable), are for over travel protection.
13. **POTENTIOMETER - optional**
Is available on request, is to provide & transmit remote indication of valve position.
14. **MOUNTING & ADAPTATION**
Bottom flange mounting dimension conform to ISO 5211. A adaptor drive bushing is provided for every electric actuator, is removable and for machining to suite valve stem size.



Modulating Service with TCM



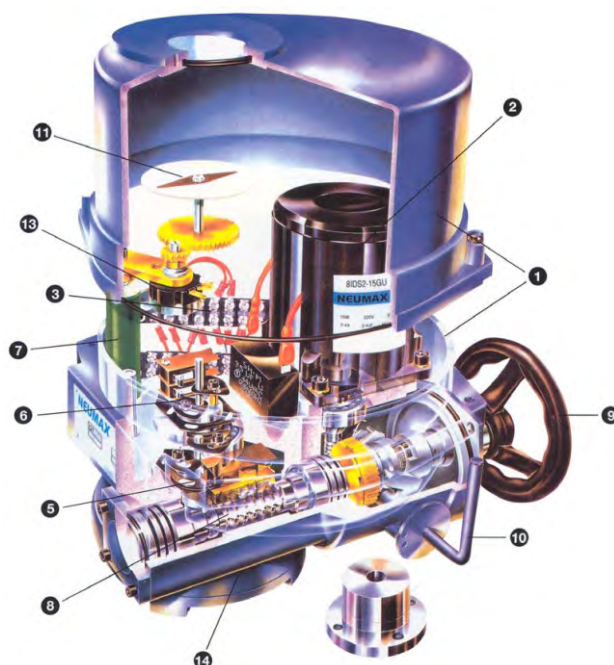
Actuator with Ball Valve for On/Off Service



Application

For quarter turn valves automation used in heating & ventilation, air-conditioning, water treatment works, power generation, petrochemical plants, oil storage facilities, chemical plants, effluent treatment works, pulp & paper mills and shipbuilding industry.

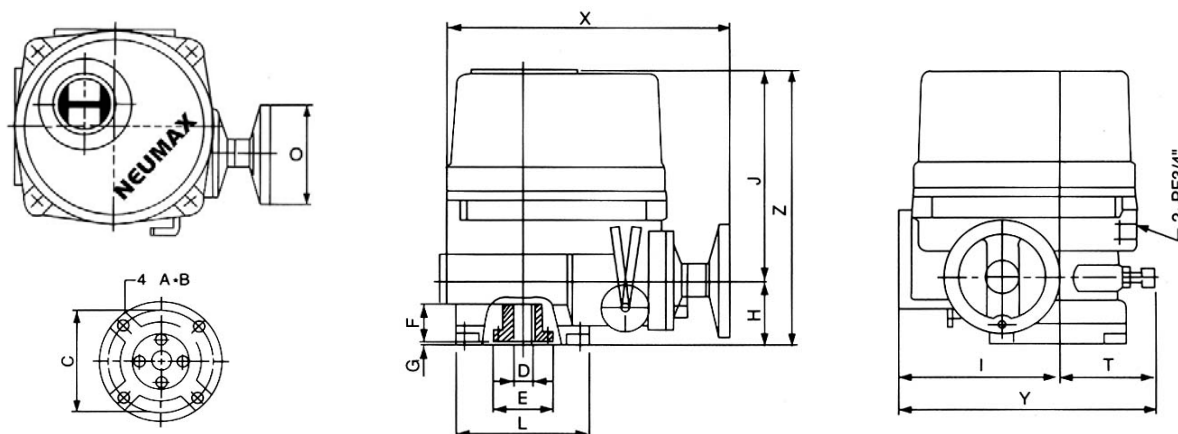
Structure



NEUMAX®

• Performance

Type	Max Output Tarque	Operatin g Time 60/50 Hz.	Max Stem Dia.	Motor 30 Min. Class F	Rated Current (mA)					Number of Handle Turn	Weight (Kgs)
					1 Phase		3 Phase				
	Kg-m	90 Deg.	mm	W	110V	220V	220V	380V	440V		
QT3*	3	11/13	14	8	400	300	N/A	N/A	N/A	7.0	8
QT4*	4	11/13	14	10	400	300	N/A	N/A	N/A	7.0	8
QT6*	6	13/16	22	15	500	400	N/A	N/A	N/A	8.5	11
QT9*	9	13/16	22	25	1100	550	350	250	400	8.5	12
QT15	15	17/20	22	40	1800	900	550	400	400	12.5	15
QT19	19	17/20	22	40	1800	900	550	450	420	12.5	15
QT28	28	20/24	32	40	1600	1250	650	450	450	10	19
QT38	38	20/24	32	60	2400	1250	700	500	450	10	20
QT50	50	20/24	32	90	3200	1850	900	550	450	10	21
QT60	60	24/29	42	90	4600	1850	1400	550	500	14.5	24
QT80	80	24/29	42	180	5100	2200	1600	900	850	14.5	25
QT100	100	24/29	42	200	6000	2600	1900	1050	900	14.0	28
QT150	150	?/90	50	200	?	?	?	?	?	?	70
QT200	200	?/90	50	200	?	?	?	?	?	?	70
QT250	250	?/90	50	250	?	?	?	?	?	?	70
QT300	300	?/15	70	600	---	---	---	?	?	?	140
QT800	780	?/15	95	1500	---	---	---	?	?	?	2200
QT1000	1000	?/30	105	1500	---	---	---	?	?	?	320
QT1800	1750	?/45	105	1500	---	---	---	?	?	?	320
QT2700	2700	?/45	165	2200	---	---	---	?	?	?	520
QT4200	4200	?/45	170	3000	---	---	---	?	?	?	780
QT5000	5000	?/50	170	4000	---	---	---	?	?	?	780
QT6300	6350	?/40	170	5500	---	---	---	?	?	?	1100



• Dimensions

Type	QT3	QT4	QT6	QT9	QT15	QT19	QT28	QT38	QT50	QT60	QT80	QT100	QT150	QT200	QT250
FLANGE	F05	F05	F07	F07	F07	F07	F10	F10	F10	F12	F12	F12	F14	F14	F14
ISO 5211	F07	F07	-	-	F10	F10	F12	F12	F12	F14	F14	F14	F16	F16	F16
C	50	50	70	70	102	102	102	102	102	125	125	125	140	140	140
A	M6	M6	M8	M8	M8	M8	M10	M10	M10	M12	M12	M12	M16	M16	M16
B	10	10	14	14	14	14	17	17	17	19	19	19	25	25	25
D (Max)	14	14	22	22	22	22	32	32	32	42	42	42	52	52	52
E	54	54	54	54	57	57	75	75	75	85	85	85	?	?	?
F	35	35	35	35	35	35	47	47	47	54	54	54	62	62	62
G	5	5	5	5	5	5	5	5	5	5	5	5	7	7	7
H	60	60	60	60	65	65	70	70	70	78	78	78	241	241	241
I	110	110	125	125	125	125	205	205	205	191	191	191	191	191	191
J	196	196	196	196	198	198	231	231	231	265	265	265	284	284	284
L	102	102	102	102	125	125	145	145	145	175	175	175	210	210	210
O	102	102	102	102	200	200	200	200	200	170	170	170	350	350	350
T	90	90	75	75	100	100	75	75	75	116	116	116	132	132	132
X	240	240	240	240	272	272	300	300	300	325	325	325	357	357	357
Y	200	200	200	200	225	225	280	280	280	307	307	307	323	323	323
Z	256	256	256	256	263	263	301	301	301	343	343	343	525	525	525

• Standard Specification

Housing & Cover	Aluminium Alloy, Anodized
Enclosure	Watertight IP67, Nema4 and 6
Ambient Temp	-30° to + 70°C, 150 C/1hr
Power Supply	110/220VAC, 1 Phase
(60Hz/50Hz)	220/380/440VAC, 3 Phase
Control Power	110/220VAC, 1 Phase, 60/50Hz
Torque Switches	2 x SPDT for QT 15 and above
Limit Switches	2 x SPDT 15A
Stall Protection	Built-in Thermal Protection OPEN 120°C ± 5°/Close 77°C ± 15°C
Travel Angle	90° ± 5°
Indicator	Continuous Position Indicator
Manual Override	HAND/AUTO Dec clutching Mechanism
Self Locking	Provide by means of Worm Gearing
End Stopper	External Adjustable Screws
Space Heater	20W for Anti-Condensation
Conduit Entries	Two PF3/4"
Lubrication	Grease NLGI Grade 2 (EP Type)
Materials	Steel, Aluminium Alloy, Al Bronze
External Coating	Dry Powder, Epoxy-Polyester Munsell No. FJ-002

• Optional Items

DCM	24V DC Motor
ALS	Additional 2 x SPDT Auxiliary Limit Switches
EXT	Travel Angle 120°, 135°, 180°, 270° and Multitum
LCB	Local Control Box (1) Local/Remote Selector Switch (2) Open/Stop/Close Selector Switch
POT	Potentiometer 1k Ohm
CPT	Current Position Transmitter Output; 4-20mA DC
PCM	Proportional Control Module Input signal: 4-20mA, 1-5V DC, 2-10VDC Output Signal: 4-20mA DC
IMS	Integral Motor Starter Reversing Magnet Contacts & Transformer for 3 Phase Voltage
EXP	Explosion & Water Proof Enclosure

GALA | *Regulating Systems*



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