

NEUMAX[®]



QT/QE SERIES QUARTER TURN ELECTRIC ACTUATOR

ELECTRIC ACTUATOR

NEUMAX QT SERIES QUARTER-TURN TRANSMISSION

APPLICATIONS

NEUMAX "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 handwheel, the adaptor drive bushing and bottom ISO 5211 mounting dimension, are added advantages against other make in the field of valve automation. CE approved.

It is suitable for used in heating, ventilation & air-conditioning, water treatment & water-works, power generation, petrochemical plants, oil storage facilities, chemical plants, effluent treatment works, pulp & paper mills, ship building industry, etc.



SPECIFICATIONS

Housing & Cover	Aluminium, Anodized	Travel Angle	90° ± 5°
Enclosure	Watertight IP67, Nema 4 and 6	Indicator	Continuous Position Indicator
Ambient Temperature	-30°C ... 70°C	Manual Override	HAND / AUTO Declutching Mechanism
Power Supply (60Hz/50Hz)	110 / 220VAC, 1 Phase 380 / 415VAC, 3 Phase	Self Locking	Provide by means of Worm Gearing
On/Off Control *	24 / 110 / 220V AC	End Stopper	External Adjustable Screws
Input Signal *	4~20mA (Default) / 0~10V	Space Heater	20W for Anti-Condensation
Output Signal	4~20mA (Default) / 0~10V	Conduit Entries	Two G3/4"
Torque Switches	2XSPDT for QT16 and above	Lubrication	MoS2 Lithium Base Grease
Limit Switches	2XSPDT 5A	Materials	Steel, Aluminium Alloy, Aluminium Bronze
Stall Protection	Build-in Thermal Protection	External Coating	Dry Power, Epoxy-Polyester

Note : Other power supply available upon request.

*: Series #1 is the on/off control type; Series #6 is a modulating control type. # for voltage: 2 for 110V, 3 for 220V, 4 for 380V, 5 for 415V

PERFORMANCE

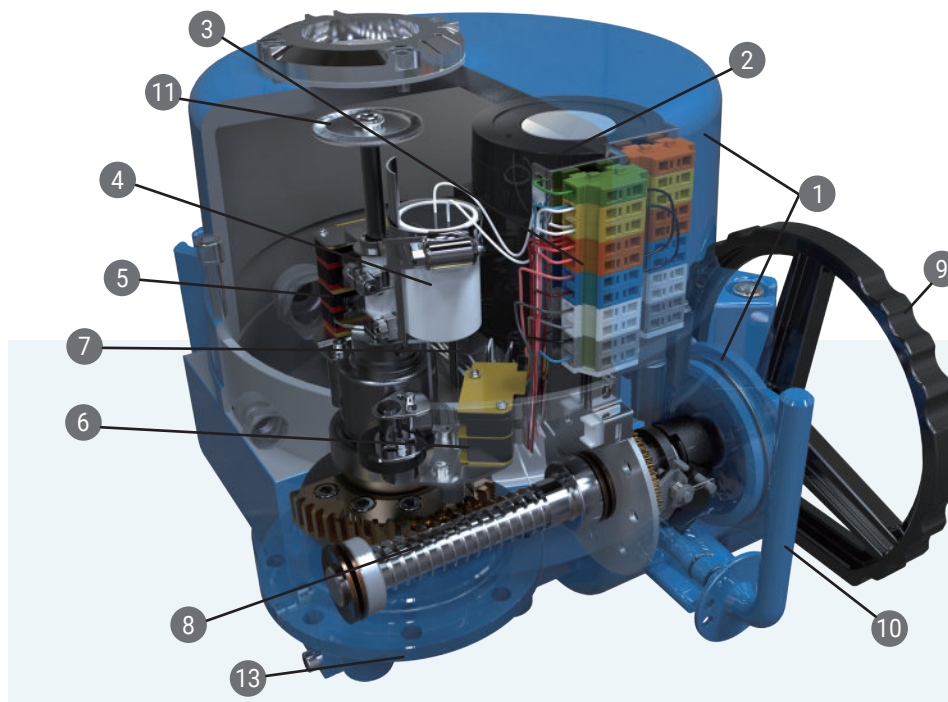
(mm)

Type	Flange ISO5211	Max Operating		Max Stem (mm* mm)	Motor 30 min Class F (W)	Rated Current (A)				Number of Handle Turn	Weight (Kg)
		Output Torque (N*m)	Time 60/50Hz (90 Deg.)			1 Phase		3 Phase			
						110V	220V	380V	415V		
QT06	F05 / F07	60	17 / 21	17*17	20	0.9	0.4	0.09	0.06	8.5	9
QT10	F05 / F07	90	17 / 21	17*17	20	1.1	0.5	0.22	0.40	8.5	10
QT16	F07 / F10	150	23 / 28	22*22	40	1.2	0.6	0.25	0.36	10	12
QT20	F07 / F10	190	23 / 28	22*22	40	1.2	0.6	0.30	0.45	10	13
QT24	F10 / F12	280	27 / 32	27*27	40	1.6	0.7	0.35	0.56	12.75	17
QT35	F10 / F12	380	27 / 32	27*27	60	1.9	0.9	0.38	0.42	12.75	18
QT50	F10 / F12	500	27 / 32	27*27	90	2.7	1.3	0.8	0.6	12.75	19
QT80	F12 (F14)	800	30 / 36	36*36	120	3.3	1.6	1.1	0.8	14.5	23
QT110	F12 (F14)	1000	30 / 36	36*36	180	5.8	2.2	1.5	1.0	14.5	25
QT200	F14 (F16)	2000	46 / 55	46*46	120	5.8	2.2	1.5	1.0	45	35
QT250	F14 (F16)	2500	90 / 110	46*46	180	5.8	2.2	1.5	1.0	45	35
QT300	F16 (F25)	3000	63 / 75	46*46	180	5.8	2.2	1.5	1.0	55	45
QT400	F16 (F25)	4000	125 / 150	46*46	180	5.8	2.2	1.5	1.0	55	45
QT600	F25 / F30	6000	150 / 180	46*46	180	5.8	2.2	1.5	1.0	55	45

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NEUMAX QT SERIES QUARTER-TURN TRANSMISSION

FEATURES



1. ENCLOSURE

Standard enclosure to water jet proof and water tight proof IP67, NEMA 4&6.

2. MOTOR

Squirrel cage motor is of encapsulated type, on high stall torque and low inherent force for seating and unseating of valves. All motors are intergrated with build-in thermal protection.

3. TERMINAL CONNECTION & WIRING

Terminal connections are of screw type, making wiring connection very easy and without fuss. Electrical wiring circuit is standardized for single and three phare voltage. Addition termina-tion is available on request.

4. INTERNAL COMPONENTS ARRANGEMENT

Internal mechanical and electrical components are design in modular mounting arrangement, and can be easily remove for mainte - nance purposes. Additional optional accessories are also possible.

5. LIMIT SWITCHES

A pair limit switches are activated by means of simple, reliable and adjustable cam plates, mounted directly onto, and driven by center column. The unique cam plate design prevent over travel of limit switches.

6. TORQUE SWITCHES

Electric actuators of 100 N·m and above, are install with torque switches for ove-load protection.

7. HEATER

For prevention of condensation due to weather and temperature changes, and also keeps internal components clean and dry, a 20 watt space heater is provided inside all the electric actuators.

8. SELF LOCKING MECHANISM

Self locking mechanism with improved worm gear design.

9. HANDWHEEL

Correct size of handwheel on the electric actuator ensure adequate strength for safe and efficient emergency operation.

10. MANUAL OVER-RIDE

Engage by pulling and piling the lever and turning the handwheel. Lever is auto declutch when power supply is switch on, and handwheel 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 the visual position of the valve.

12. END STOPPERS

1 each for open and close position (adjustable), are for over travel protection.

13. MOUNTING & ADAPTATION

Bottom flange mounting dimension conform to ISO 5211. An adaptor drive bushing is provided for every electric actuator. It is removable and for machining to suite valve stem size.

ELECTRIC ACTUATOR

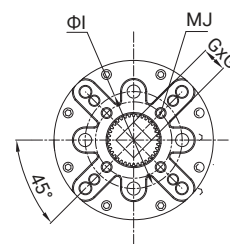
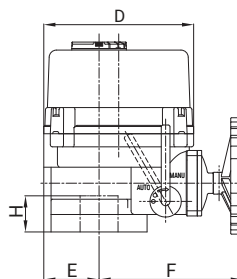
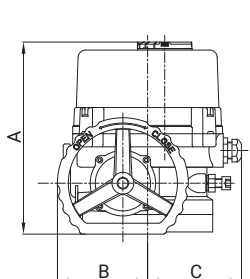
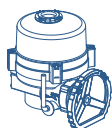
NEUMAX QT SERIES QUARTER-TURN TRANSMISSION

DIMENSIONS

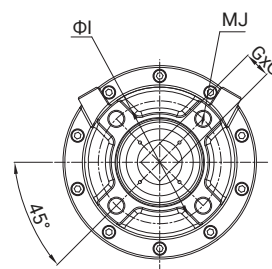
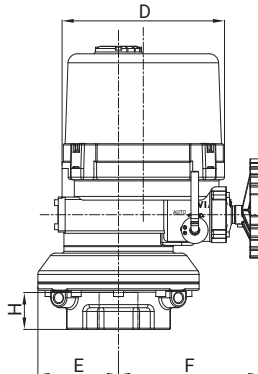
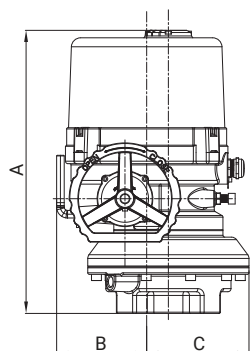
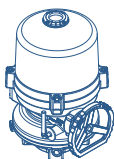
(mm)

Type	A	B	B1	C	D	E	F	GxG (Max)	H	ΦI	MJ
QT06	229	91	/	104	157	48	167	17x17	42	50/70	M6/M8
QT10	229	91	/	104	157	48	167	17x17	42	50/70	M6/M8
QT16	261	124	/	129	206	76	197	22x22	49	70/102	M8/M10
QT20	261	124	/	129	206	76	197	22x22	49	70/102	M8/M10
QT24	315	125	/	136	222	76	208	27x27	51	102/125	M10/M12
QT35	315	125	/	136	222	76	208	27x27	51	102/125	M10/M12
QT50	315	125	/	136	222	76	208	27x27	51	102/125	M10/M12
QT80	352	145	/	156	262	91	230	36x36	62	125/140	M12/M16
QT110	352	145	/	156	262	91	230	36x36	62	125/140	M12/M16
QT200	465	145	/	165	262	130	228	46x46	75	165	M20
QT250	465	145	/	165	262	130	228	46x46	75	165	M20
QT300	550	145	185	322	262	137	228	46x46	120	165	M20
QT400	550	145	185	322	262	137	228	46x46	120	165	M20
QT600	575	145	225	404	262	179	230	46x46	120	254	M16

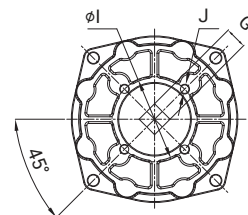
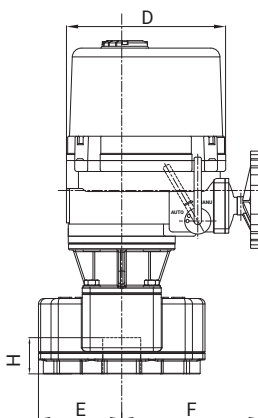
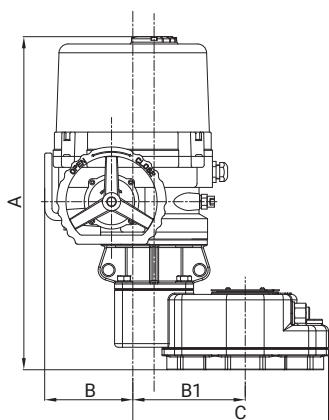
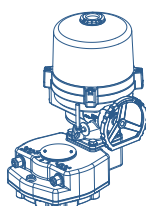
QT06 - QT110



QT200 - QT250



QT300 - QT600



ELECTRIC ACTUATOR

NEUMAX QE SERIES QUARTER-TURN TRANSMISSION

APPLICATIONS

NEUMAX "QE" 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 adaptor drive bushing and bottom ISO 5211 mounting dimension, are added advantages against other make in the field of valve automation. CE approved.

It is suitable for used in heating, ventilation & air-conditioning, water treatment & water-works, power generation, petrochemical plants, oil storage facilities, chemical plants, effluent treatment works, pulp & paper mills, ship building industry, etc.



SPECIFICATIONS

Housing & Cover	Aluminium, Anodized	Limit Switches	2XSPDT 5A
Enclosure	Watertight IP67	Stall Protection	Build-in Thermal Protection
Ambient Temperature	-25°C ... 70°C	Travel Angle	90° ± 5°
Power Supply	24 / 110 / 220VAC, 1 Phase	Indicator	Continuous Position Indicator
AC(60Hz/50Hz)	380 / 415 / 440VAC, 3 Phase	End Stopper	External Adjustable Screws
DC	24VDC	Space Heater	20W for Anti-Condensation
On/Off Control *	24 / 110 / 220V AC	Conduit Entries	Two G3/4"
Input Signal *	4~20mA (Default) / 0~10V	Lubrication	MoS2 Lithium Base Grease
Output Signal	4~20mA (Default) / 0~10V	Materials	Steel, Aluminium Alloy, Aluminium Bronze
Torque Switches	2XSPDT (Optional)	External Coating	Dry Power, Epoxy-Polyester

Note : Other power supply available upon request.

*: Series #1 is the on/off control type; Series #6 is a modulating control type. # for voltage: 1 for 24V, 2 for 110V, 3 for 220V, 4 for 380V, 5 for 415V

PERFORMANCE

(mm)

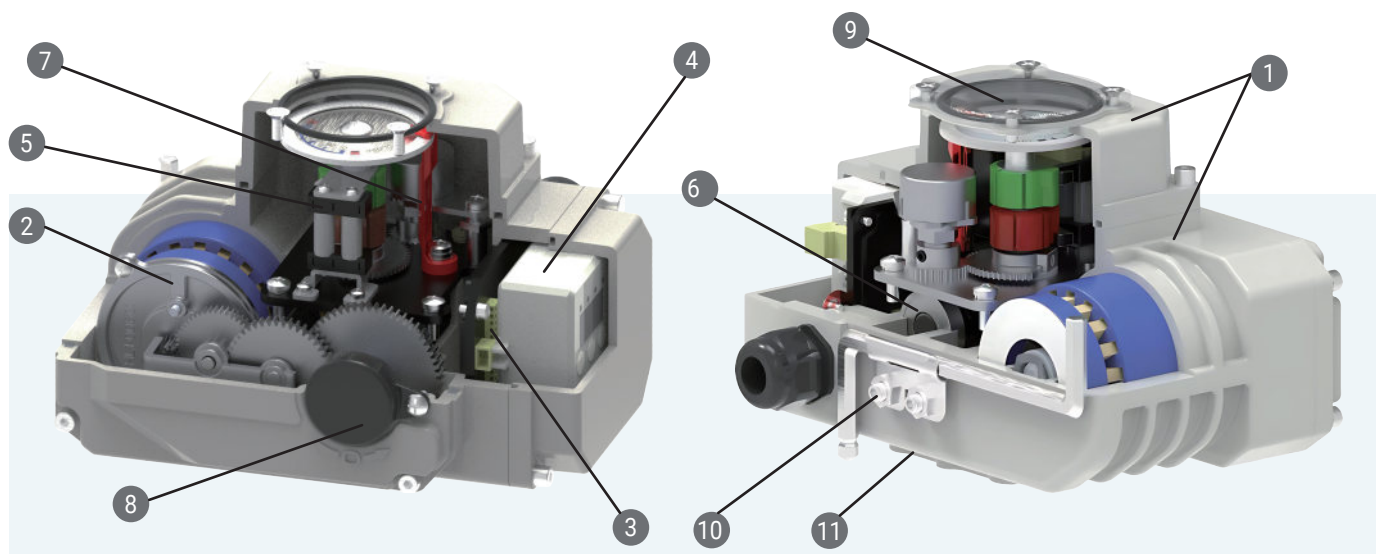
Type	Flange ISO5211	Max Output Torque (N*m)	Operating Time 60/50Hz (90 Deg.)	Max Stem (mm* mm)	Motor 30 min Class F (W)	Rated Current (A) Current/Stall current					Weight (Kg)
						DC 24V	24V	AC 110V	1 Phase 220V	3 Phase 380V	
QE05	F03/F05/F07	50	25 / 30	14*14	10	1.1/2.6	2.7/3.0	0.45/0.67	0.24/0.31	0.11/0.13	3
QE10	F05/F07	100	17 / 20	17*17	30	1.7/2.7	3.0/4.0	0.65/0.96	0.35/0.45	0.12/0.17	4.5
QE15	F05/F07	150	25 / 30	17*17	30	1.8/2.7	3.0/4.0	0.65/0.96	0.35/0.45	0.13/0.17	4.5
QE25	F07/F10/F12	250	25 / 30	22*22	40	4.0/6.5	4.0/6.5	0.72/1.41	0.38/0.71	0.18/0.25	10
QE40	F07/F10/F12	400	25 / 30	22*22	60	6.8/10.3	5.5/8.9	1.00/1.74	0.50/0.95	0.25/0.49	10
QE60	F07/F10/F12	600	25 / 30	27*27	90	9.5/15.8	9.5/10	1.50/2.62	0.75/1.48	0.30/0.49	10
QE100	F12(F10/F14)	1000	25 / 30	27*27	150	9.5/16.4	—/—	3.0/5.92	1.5/2.2	0.67/1.3	15
QE160	F12(F10/F14)	1600	42 / 50	36*36	150	—/—	—/—	3.0/5.92	1.5/2.2	0.67/1.3	15
QE200	F12(F10/F14)	2000	50 / 60	36*36	150	—/—	—/—	3.0/5.92	1.5/2.2	0.67/1.3	15
QE250	F14(F12/F16)	2500	42 / 50	36*36	200	—/—	—/—	3.9/7.24	1.9/3.1	0.9/1.8	25
QE300	F14(F12/F16)	3000	50 / 60	36*36	200	—/—	—/—	3.9/7.24	1.9/3.1	0.9/1.8	25
QE400	F16(F25)	4000	83 / 100	46*46	200	—/—	—/—	4.1/7.13	2.1/3.2	0.9/1.8	44
QE600	F16(F25)	6000	125 / 150	46*46	200	—/—	—/—	4.1/7.13	2.1/3.2	0.9/1.8	57

* Without torque switches

ELECTRIC ACTUATOR

NEUMAX QE SERIES QUARTER-TURN TRANSMISSION

FEATURES



1. ENCLOSURE

Standard enclosure to water jet proof and water tight proof IP67, NEMA 4&6.

2. MOTOR

Squirrel cage motor is of encapsulated type, on high stall torque and low inherent force for seating and unseating of valves. All motors are intergrated with build-in thermal protection.

3. TERMINAL CONNECTION & WIRING

Terminal connections are of screw type, making wiring connection very easy and without fuss. Electrical wiring circuit is standardized for single and three phare voltage. Addition termina-tion is available on request.

4. INTERNAL COMPONENTS ARRANGEMENT

Internal mechanical and electrical components are design in modular mounting arrangement, and can be easily remove for maintenance purposes. Additional optional accessories are also possible.

5. LIMIT SWITCHES

A pair limit switches are activated by means of simple, reliable and adjustable cam plates, mounted directly onto, and driven by center column. The unique cam plate design prevent over travel of limit switches.

6. TORQUE SWITCHES (Optional)

Electric actuators of 100 N•m and above, are install with torque switches for ove-load protection.

7. HEATER

For prevention of condensation due to weather and temperature changes, and also keeps internal components clean and dry, a 20 watt space heater is provided inside all the electric actuators.

8. Manual Operation

After cutting off the power, open the rubber cover and insert the matching Z-wrench to open and close the valve manually.

9. VISUAL POSITION INDICATOR

The visual position indicator is directly mounted onto the center drive column to provide the visual position of the valve.

10. END STOPPERS

1 each for open and close position (adjustable), are for over travel protection.

11. MOUNTING & ADAPTATION

Bottom flange mounting dimension conform to ISO 5211. An adaptor drive bushing is provided for every electric actuator. It is removable and for machining to suite valve stem size.

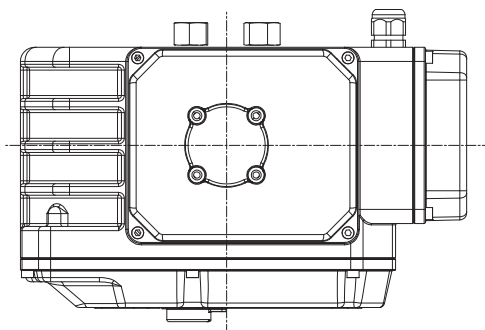
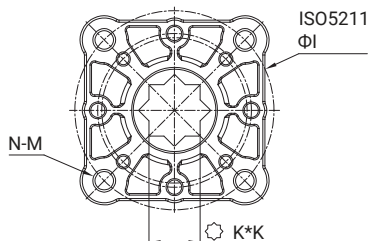
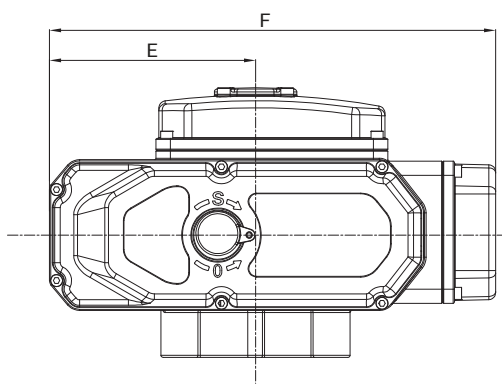
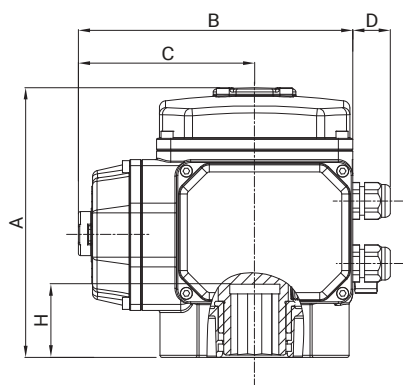
ELECTRIC ACTUATOR

NEUMAX QE SERIES QUARTER-TURN TRANSMISSION

DIMENSIONS

(mm)

Type	A	B	C	D	E	F	KxK (Max)	H	ISO5211 ΦI	N-M
QE05	121	115	70.5	26	87	180	14X14	26	F03 / F05 / F07	4-M5 / 4-M6 / 4-M8
QE10	139	124.5	82.5	26	105	220	17X17	35	F05 / F07	4-M6 / 4-M8
QE15	139	124.5	82.5	26	105	220	17X17	35	F05 / F07	4-M6 / 4-M8
QE25	159	168	104	26	140	294	27X27	45	F07/ F10 / F12	4-M8 / 4-M10 / 4-M12
QE40	159	168	104	26	140	294	27X27	45	F07/ F10 / F12	4-M8 / 4-M10 / 4-M12
QE60	159	168	104	26	140	294	27X27	45	F07/ F10 / F12	4-M8 / 4-M10 / 4-M12
QE100	195	193	124	26	145	315	36X36	50	F12 or F10/ F14	4-M12 or 4-M10 / 4-M16
QE160	195	193	124	26	145	315	36X36	50	F12 or F10/ F14	4-M12 or 4-M10 / 4-M16
QE200	195	193	124	26	145	315	36X36	50	F12 or F10/ F14	4-M12 or 4-M10 / 4-M16
QE250	266	242	148	26	149.5	341	36X36	61	F14 or F12 / F16	4-M16 or 4-M12 / 4-M20
QE300	266	242	148	26	149.5	341	36X36	61	F14 or F12 / F16	4-M16 or 4-M12 / 4-M20
QE400	309	266	155	-	189	439	46X46	82	F16 or F25	4-M20 or 8-M16
QE600	309	266	155	-	189	439	46X46	82	F16 or F25	4-M20 or 8-M16



Contact Us:

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