



Keeping the World Flowing
for Future Generations



IQT3N Pro Range

Marine Navy Applications

In a world where operability and reliability are of paramount importance, IQT3N Pro actuators build on the success of Rotork's IQT3 Pro electric actuator range.

Specifically designed to meet the needs of modern warship design, IQT3N Pro actuators have been independently tested for shock tolerance and meet the requirements of most worldwide surface ship applications.

The IQT3N Pro is a low cost, reliable, virtually maintenance free, lightweight 'fit and forget' solution which offers control options for integration with shipboard critical systems.

All IQT3N Pro actuators have in-built data loggers so you can extract the data logs via the app, and export them to Rotork Insight 2 software or send to Rotork's cloud-based intelligent Asset Management (iAM) system.



- > 3-phase and 1-phase power supplies
- > Modulating duty option
- > Part-turn and full-turn outputs
- > Shock tested to MIL-S-901D
- > Up to two option cards for additional control and monitoring
- > Environmental protection to IP68 (7 m for 72 hrs)
- > Data logger downloadable for analysis with Insight 2 software or upload to Rotork's intelligent Asset Management (iAM) system
- > Control and commissioning via Rotork App, Bluetooth® Setting Tool Pro handset (BTST) or local control knobs
- > Intrinsically safe BTST with robust construction for use in hazardous areas, allows fast and easy configuration of multiple actuators using transferable settings feature
- > IQT3N Pro actuators can be operated and fully configured via the Rotork app which also features data log download and export.

Performance Data

Actuator	IQTFN50	IQTFN100	IQTN125 IQTFN125 IQTMN125	IQTN250 IQTFN250 IQTMN250	IQTN500 IQTFN500 IQTMN500	IQTN1000 IQTFN1000 IQTMN1000	IQTN2000 IQTFN2000 IQTMN2000
----------	---------	----------	---------------------------------	---------------------------------	---------------------------------	------------------------------------	------------------------------------

Seating Torque

		Torque		Nm	lbf.ft		
	50	100	125	250	500	1,000	2,000
	37	74	92	185	369	738	1,476

Modulating Torque - IQTMN and IQTFN only

	25	50	63	125	250	500	1,000
	19	37	46	93	185	369	738

Operating Time (seconds) - IQTN and IQTMN only

90° Min	-	-	5	8	15	30	60
90° Max	-	-	20	32	60	120	240

Operating Speed - IQTFN only

rpm	2.5 - 10	1.5 - 6	0.75 - 3	0.5 - 1.88	0.25 - 1	0.125 - 0.5	0.125 - 0.5
max turns, min rpm	22	22	12	7.5	3.75	1.88	1.88
max turns, max rpm	22	22	22	22	15	8	4

IQTN/IQTMN/IQTFN actuator output torque is configurable to 40 - 100% of seating torque.
Operating speed of IQTN/IQTMN/IQTFN 24 VDC actuators will vary with load.

Mechanical Data

Approximate weight

kg	22	22	22	22	22	37	37
lbs	49	49	49	49	49	82	82

Handwheel details

Turns for 90°	26	26	88	88	88	83	83
---------------	----	----	----	----	----	----	----

Flange

ISO5211	F10	F10	F10	F10	F10	F14	F14
MSS SP-101	FA10	FA10	FA10	FA10	FA10	FA14	FA14

Type B Coupling - Torque only

Bore & key max mm	42	42	42	42	42	60	60
Bore & key max in	1.65	1.65	1.65	1.65	1.65	2.36	2.36
Square AF max mm	32	32	32	32	32	41	41
Square AF max in	1.25	1.25	1.25	1.25	1.25	1.62	1.62
Shaft height max mm	45	45	45	45	45	65	65
Shaft height max in	1.77	1.77	1.77	1.77	1.77	2.56	2.56

A full listing of the Rotork sales and service network is available on our website.

www.rotork.com

Corporate Headquarters
Rotork plc

tel +44 (0)1225 733200
email mail@rotork.com

Electric Actuators and Control Systems
Fluid Power Actuators and Control Systems
Gearboxes and Gear Operators
Precision Control and Indication
Projects, Services and Retrofit