

rotork®

IQ Range



Multi-turn and Part-turn
Intelligent Electric Valve Actuators

Keeping the World Flowing

IQT, IQTM and IQTF Performance Summary

Performance and Mechanical Data

The below performance information is for actuators with B type couplings. For alternative flange, coupling and weight information on IQTF actuators - refer to PUB002-006.

Actuator	IQTF50	IQTF100	IQT125 IQTF125 IQTM125	IQT250 IQTF250 IQTM250	IQT500 IQTF500 IQTM500	IQT1000 IQTF1000 IQTM1000	IQT2000 IQTF2000 IQTM2000	IQT3000 IQTF3000 IQTM3000
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Torque

Max Nm	50	100	125	250	500	1,000	2,000	3,000
Min Nm	20	40	50	100	200	400	800	1,200
Max lbf.ft	37	74	92	185	369	738	1,476	2,214
Min lbf.ft	15	30	37	74	148	295	590	886

Modulating Torque (IQTM and IQTF only)

Nm	25	50	62.5	125	250	500	1,000	1,000
lbf.ft	18.5	37	46	92.5	184.5	369	738	738

Operating Time (IQT and IQTM only)

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

Operating Speed Range (IQTF only)

rpm	2.5 - 10	1.5 - 6	0.75 - 3	0.5 - 1.88	0.25 - 1.0	0.125 - 0.5	0.125 - 0.25	0.125 - 0.25
max turns, min rpm	22	22	12	7.5	3.75	1.88	1.88	1.88
max turns, max rpm	22	22	22	22	15	8	4	4

Flange

ISO 5211	F05*	F07*	F10	F05*	F07*	F10	F05*	F07*	F10	F07*	F10	F10	F12	F14	F14	F16
MSS SP-101	FA05*	FA07*	FA10	FA05*	FA07*	FA10	FA05*	FA07*	FA10	FA07*	FA10	FA10	FA12	FA14	FA14	FA16

Weight

kg	22	22	22	22	22	37	37	39
lbs	49	49	49	49	49	82	82	86

Couplings**

Spindle acceptance

Bore & key max mm	22	28	42	22	28	42	22	28	42	28	42	42	60	60	60
Bore & key max in	0.87	1.1	1.65	0.87	1.1	1.65	0.87	1.1	1.65	1.1	1.65	1.65	2.36	2.36	2.36
Square AF max mm	14	19	32	14	19	32	14	19	32	19	32	32	41	41	46
Square AF max in	0.56	0.75	1.25	0.56	0.75	1.25	0.56	0.75	1.25	0.75	1.25	1.25	1.62	1.62	1.81

Handwheel

Turns for 90°	26	26	88	88	88	83	83	83
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IQT / IQTM / IQTF 24 VDC (17-37 Volts) Performance

Torque outputs for 24 VDC are the same as above, however speed varies with load.

* Optional flanges F05, FA05, F07 and FA07 use a base adapter plate. Required base type must be specified.

** Couplings are supplied blank for machining by valve maker.