Welcome to HEARKEN --- Actuators and Controls

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BROCHURE

Here We Gan

The Trusted, Passionate and focused Partner in Valve Automation

At HEARKEN FLOW,The founding principle of Hearkenflow is simple: to Listen our customers needs first, to develop the innovative valve actuators solutions, to meet the unique needs of our customers, Along the way, To help our customers to solve the problems in Valve Automation. We are growing our brand in Pneumatic and Electric Actuators, Accessories...



Experienced team



Large inventory



Convenient consultation













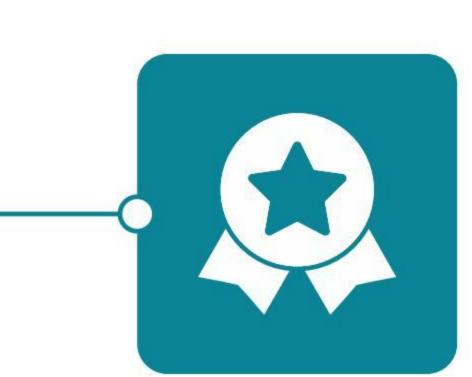
WHY WE ARE DIFFERENT

We offer a complete valve automation solution by the applications experience and customization capabilites, with an experienced support team to guide you in selection, installation, and project support.In addition we maintain an extensive supply of product inventory on hand so that we can quickly fulfill orders and reduce wait times. Our sales and support staff are readily available and accessible so that customers get the answers they need quickly.

THE TARGET WE ARE PURSUING







High-quality

low cost

Reliable solution

- To built A strong Reputation in Providing Quality, Cost Effective, Reliable And Robust Performance Solutions for Valve Automation,
- Inclued Pneumatic Actuators, Electrically Actuators, Actuated Valves.



COMMITMENT TO QUALITY

At HEARKEN FLOW means performance, All products manufactured by HEARKEN FLOW are warranted against defects in material and workmanship for a period of 18months from the day of startup. Each of our products are tested at the factory. we are confident that our products meet or exceed all applicable standards before they ever leave our facility. We are an ISO 9001-2008 certified company. Our Valve Actuators Has Applied for SIL3 Certificate, ATEX Certificate, CE, Explosion-proof Certificate, IP68 Weather proof etc....



HQT Series Electric Actuator (Ex-proof)

— Ex-proof Design

Description



HQT Explosion-Proof Quarter-Turn Electric Actuators can be used for driving and controlling the butterfly valves, ball valves, plug valves

(part-turn valves with 90°movement), the actuators can be either remotely controlled or locally controlled, Its widely used in the fields such as oil, chemical, power generation, water treatment ect..... The protection class is IP67,And the Explosion proof class is ExdIICT4, Its Automation Maximum Output Torque is 3000N.m .The products conformto JB/T8528-97 (Technical conditions for non explosion proof electric actuators)

- Height above sea level: ≤1000m
- Humidity: ≤90% (25°C)
- No strong corrosion media at working environment.

Testing For All Actuators (Tax)





All actuators manufactured by HEARKEN are individually tested, Testing is carried out to check the leakage in both internal and external, The angle of rotation and Torque values. All bodies are stamped with year, month of production, size and serial number.

Standard Specifications

Housing	Waterproof level IP67,NEMA 4 and 6 Standard:220V AC single-phase Optional:110V AC single-phase,380/440V AC three-phase,50/60Hz,±10% 24V DC/110V DC/220V DC					
Motor power supple						
Motor	Squirrel-cage asynchronous motor					
Limit Switch	On/off,each of the 1 Spdt,250V AC 10A					
Auxiliary limit switch	On/off,each of the 1 Spdt,250V AC 10A					
Torque switch	On/off,each of the 1 Spdt,250V AC 10A	HQT010 Exclude				
Traval	90°±10°	0°~270° Optiona				
Stall protection/operating temperature Built-in overheating protection,open 115°C±5°C/close 97°C±5°						
Indicator	Continuous position indicator scale					
Manual operation Mechanical clutch mechanism, with handwheel oper						
Self-locking unit	Worm gear, self-locking provided for the worm mechanism					
Mechanical limit	Two external adjusting bolts					
Dryer	7-10W(110/220V AC)					
Wiring hole	M20*1.5 M36*2					
Ambient temperature	-20°C~+70°C					
Lubrication	Aluminium-base grease (EP type)					
Material Steel/aluminum alloy/aluminum bronze/polycarbor Ambient humidity Steel/aluminum alloy/aluminum bronze/polycarbor						
Outer coating	Dry powder/epoxy polyester, with a superior anti-corrosion function					



Optional Specification

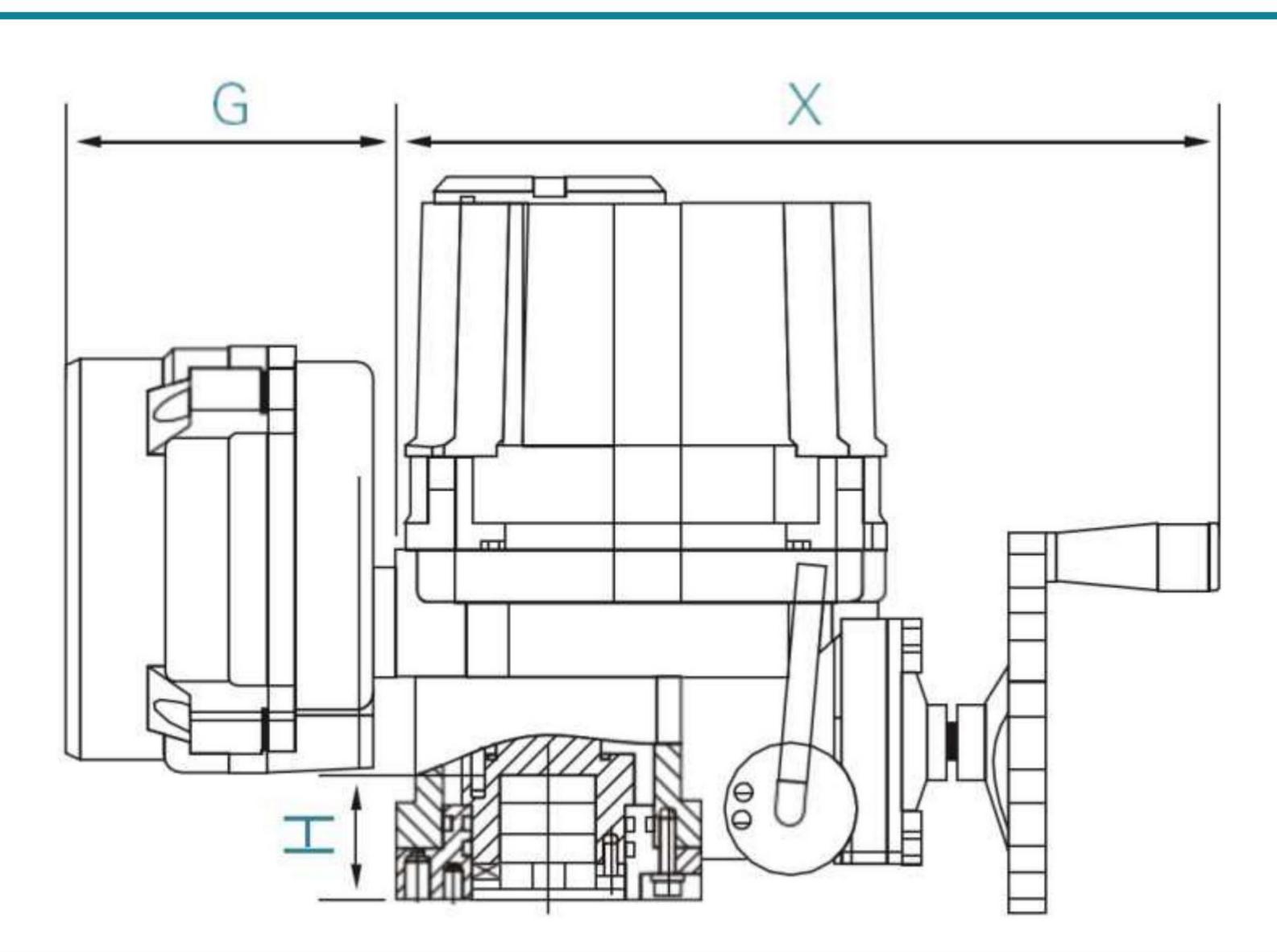
No.	Optional configuration	Remarks
1	Explosion-proof actuator (Exd II CT4)	HQT Series
2	Waterproof actuator (IP67,10M,250HR)	HQT Series
3	Potentiometer(1K-10K)	HQT Series
4	Proportional control unit(input/output signal 4-20mA DC/1-5V/1-10V	HQT Series
5	On-site control unit(local control ON/STOP/OFF selection switch,local/remote switching	HQT Series
6	Travel 90°,120°,180°,270°	HQT Series
7	DC motor (24V DC)	HQT Series
8	Additional torque switch (SPDT X 2 250V AC 10A)	HQT010 Excluded
9	Current position sensor (Output 4-20mA DC)	HQT Series
10	The electric valve opens or closes the control cabinet automatically after the signal is cut off	HQT Series
11	High-temperature-resistant actuator(-10°C~+100°C)	HQT Series
12	Low-temperature-resistant actuator(-40°C~+70°C)	HQT Series
13	Low-speed actuator	HQT Series

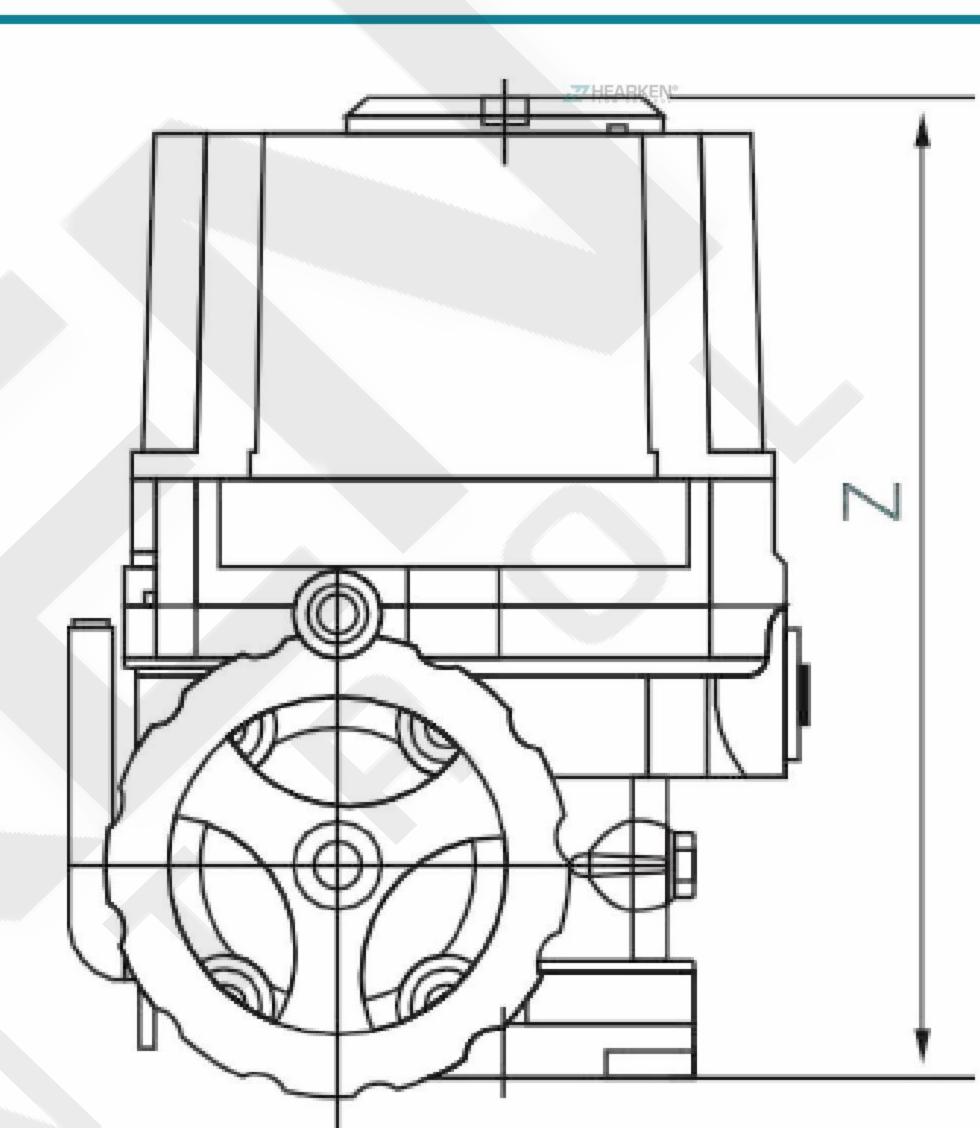
EX-Droof

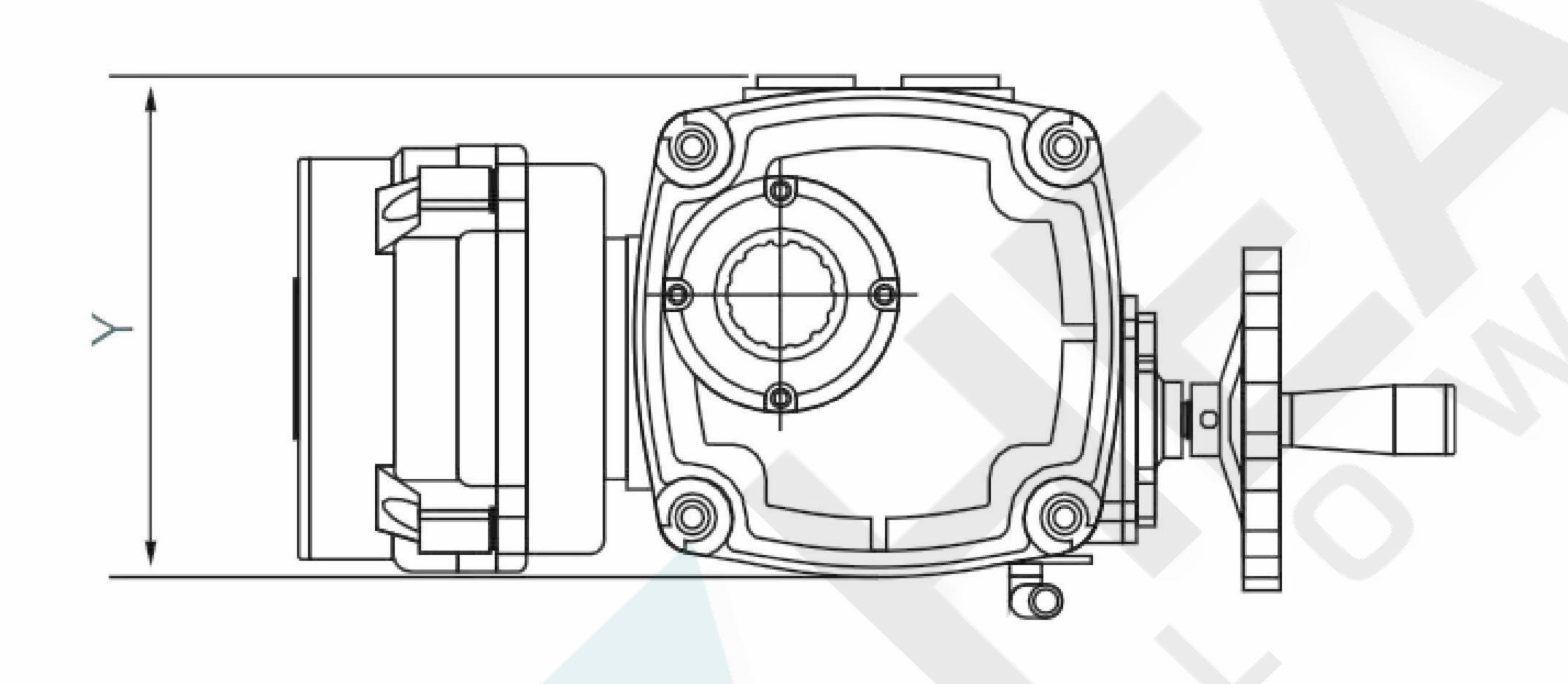


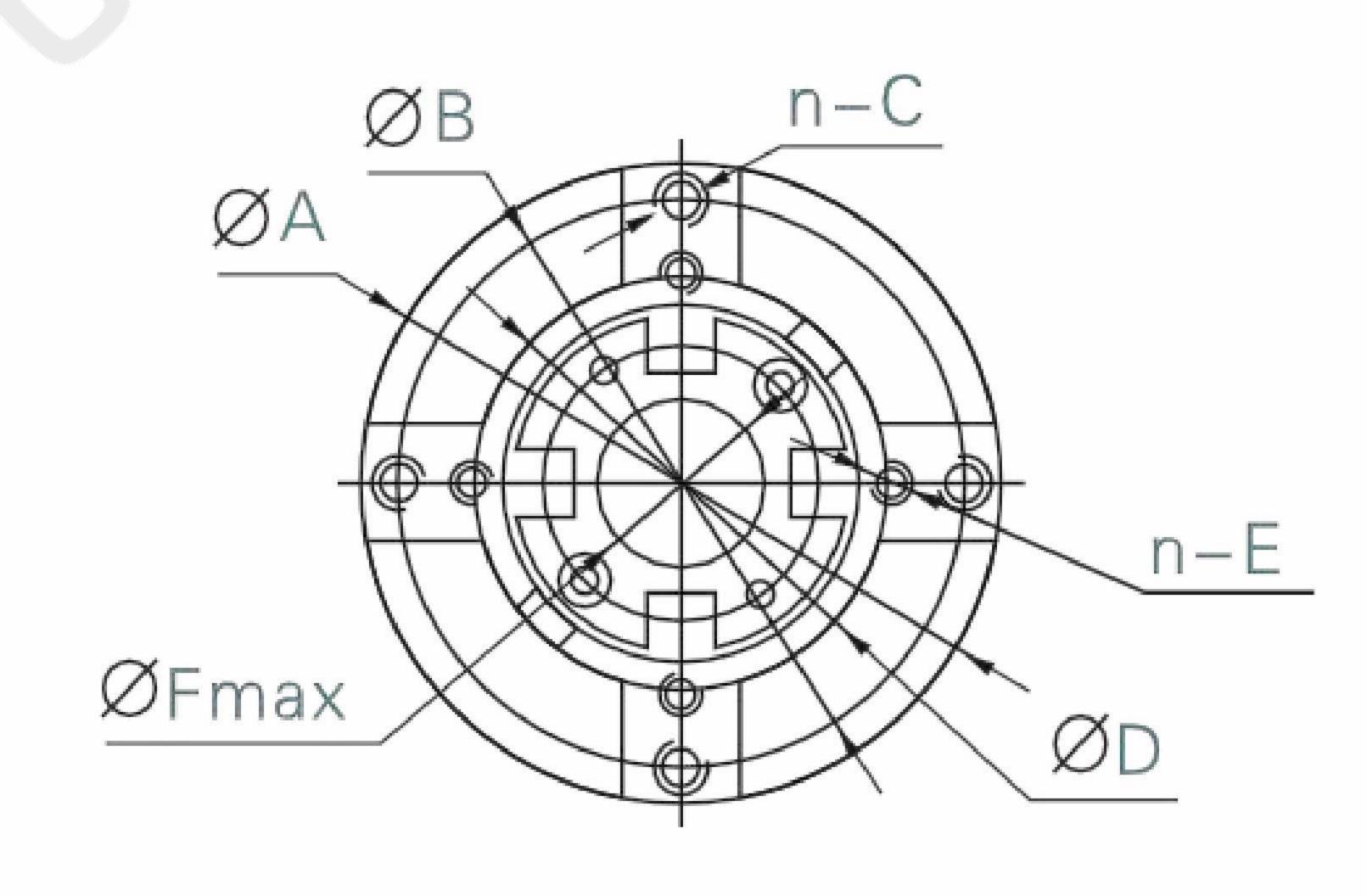
Technical Parameters of HQT Series Electric Actuator

	Max Output Torque (Nm)	Operating Time 90° (S)	Max Bore Size (mm)	F-class Motor (W)		Rated Currer	nt(A)60/50Hz	Handwheel			
Model					Single-phase		Three-phase		Rotation	Weight (Kg)	Flange
					110V	220V	380V	440V	(N)		
HQT010	100	18/22	Ø20	20	1.10/0.95	0.55/0.54	0.3/0.3	N/A	10	13	F07
HQT015	150	21/25	Ø22	40	1.65/1.67	0.88/0.84	0.31/0.31	0.30/0.31	10	15	F07/F10
HQT020	200	21/25	Ø22	40	1.67/1.67	0.89/0.85	0.35/0.31	0.31/0.31	11	15	F07/F10
HQT030	300	26/31	Ø35	60	1.85/1.86	0.92/0.92	0.35/0.35	0.34/0.34	13.5	22	F07/F10
HQT050	500	26/31	Ø35	90	3.60/3.62	1.55/1.58	0.59/0.59	0.58/0.58	13.5	23	F10/F12
HQT080	800	31/37	Ø45	120	4.10/4.10	2.15/2.20	0.85/0.85	0.79/0.79	16.5	30	F10/F14
HQT100	1000	31/37	Ø45	180	4.20/4.10	2.35/2.30	0.87/0.87	0.81/0.81	16.5	30	F10/F14
HQT160	1600	93/112	Ø60	180	4.10/4.10	2.15/2.20	0.85/0.85	0.79/0.79	49.5	75	F10/F16
HQT200	2000	93/112	Ø65	180	4.10/4.10	2.15/2.20	0.85/0.85	0.79/0.79	49.5	75	F10/F16









Basic Actuator Outline Dimension (Unit:mm)

MODEL	X	Y	Z	A	В	N-C	D	N-E	EARKEN	G	H
HQT010	270	161	270	Ø90	Ø70	4-M8	Ø50	4-M6	Ø20	137	35
HQT020	346	240	270	Ø120	Ø102	4-M10	Ø70	4-M8	Ø22	137	40
HQT030	358	240	290	Ø150	Ø125	4-M12	Ø102	4-M10	Ø35	137	45
HQT050	358	240	290	Ø150	Ø125	4-M12	Ø102	4-M10	Ø35	137	45
HQT080	390	260	322	Ø180	Ø140	4-M14	Ø125	4-M12	Ø45	137	55
HQT100	390	260	322	Ø180	Ø140	4-M14	Ø125	4-M12	Ø45	137	55
HQT160	390	260	491	Ø210	Ø165	4-M16	Ø140	4-M14	Ø55	137	65
HQT200	390	260	491	Ø210	Ø165	4-M16	Ø140	4-M14	Ø55	137	65