

# QUARTER-TURN

## ELECTRIC ACTUATOR



FM 522775



EMS 595200



OHS 595201



**KSTQ10-dB - K5 - B**

- Product configuration (B: basic type; M: integral type; )
- Signal code (KS: A set of fully open and fully close dry contact feedback; T3-4~20 mA input and feedback ... )
- Color code (B: black; Y: yellow; G: gray; A: blue ... )
- Voltage code (a: AC 24 V; l: AC 24 V/1 ph; O: 380 V3/ph ... )
- Torque code (Please refer to the actuator parameter chart ... )
- Product series (Q: Quarter Turn Planetary Gear Actuator ... )  
(QG: Quarter Turn Planetary Gear Actuator+Gearbox)

## Characteristics:

### Professional Gear Design:

The adoption of the planetary gear design achieved a combination of manual and electric control without the need of the clutch which ensures the operator's safety.

### Interchangeable Spline Sleeve:

Depending on the spindle of the valve, the output sleeve of the actuator is designed in spline form. The inner holes can be replaced into square holes and keyways and other different sizes. Fast debugging and replacing makes the operation more flexible.

### Interchangeable Connecting Flange

The base connecting holes are in accordance with ISO5211 standard, also with various connecting flange sizes. It can be replaced and rotated for the same type of actuators in order to achieve with different hole positions and angles of the valve flange connection purposes.

### Planetary Gears

Using high strength alloy steel for the planetary gear set, more compact and efficient, achieving greater output for the same volume. At the same time, having differential input for motor drive and hand wheel operation, we are therefore able to operate electrically and manually at the same time.

### Sprocket Operation

Based on the features of operating manually and electrically without clutch mechanism, sprocket operation is more convenient to operate the valve at higher position.

#### OVERLOAD PROTECTION

The power will automatically shut off when the valve jam occurs. Thus preventing further damage to the valve and actuators.

#### OPERATIONAL DIAGNOSIS

Intelligent actuators are equipped with multiple sensing devices. With the functions of real-time reflections of the control signal received by the actuator, fault alarm, operating parameters, status indication and other status. Multi-diagnostic function can locate the fault, thus making it easy for the users.

#### PASSWORD PROTECTION

Intelligent actuators possess classifiable password protection, which can be authorized to different operators to avoid misuse which causing the actuator failure.

#### OPERATIONAL SAFETY

F grade insulation motor. The motor winding has a temperature control switch to sense the temperature of the motor to protect the overheating issues, thus ensures the operational safety of the motor (H grade optional)

#### MOSTURE RESISTANCE

Installed with heater inside the actuator used to remove the internal condensation which cause damages to electrical parts.

#### PHASE SEQUENCE CONTROL

Phase detection and correction functions avoid the actuator being damaged by connecting to the wrong power supply.

#### VOLTAGE PROTECTION

Protection against the high and low voltage situations.



# QUARTER TURN

## TECHNICAL SPECIFICATION

### Basic ( B )



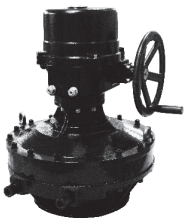
KSTQ03-08 Series



KSTQ10~230 Series



KSTQG1~3 Series



KSTQG4~6 Series

|                          |                                    |   |   |
|--------------------------|------------------------------------|---|---|
| General Parameters       | Torque Range                       | ▪ 35 - 20000 N.m  |   |
|                          | Switch Time                        | ▪ 11 - 155 s  |   |
|                          | Ambient Temperature                | ▪ -25 °C ... 70 °C    ◦ Optional: -40 °C ... 60 °C  |   |
|                          | Anti-vibration Level               | ▪ JB/T8219  |   |
|                          | Noise Level                        | ▪ Less than 75 dB within 1 m  |   |
|                          | Electrical interface               | ▪ TwoPG13.5 (<100N.m )TwoPG16 (≥100N.m ) (customized)   |   |
|                          | Ingress Protection                 | ▪ IP67 , Optional:IP68 <small>The definition of IP68 is:Depth of water: Maximum 15 m under water level.Duration of continuous immersion in water: Max.(72 hours).</small>           |   |
| Connection size          | ▪ ISO5211                          |   |   |
| Mechanical Parameters    | Motor Specifications               | ▪ Class F, with thermal protector up to +135 °C (+275 °F)<br>◦ Optional: Class H  |   |
|                          | Working System                     | ▪ On-off Type: S2 ~ 15 min, no more than 600 times per hour start   |   |
|                          | Applicable Voltage                 | ▪ 3 phase: AC (±10 %); Hz (±5 %)<br>50 Hz (220, 240, 380, 400, 460, 500, 525 和 550 Volts)<br>60 Hz (208, 220, 230, 240, 380, 440, 460, 480, 575 和 600 Volts)<br>▪ DC : 24 V (±10 %) |   |
|                          | Bus                                | ▪ N/A   |   |
|                          | On/off Type Signal                 | Input   | ▪ Built-in contacts for 5A @ 250Vac (depending on the control box)  |
|                          |                                    | Signal Feedback   | ▪ Opening stroke limit, closing stroke limit<br>▪ Opening over torque, closing over torque<br>◦ Optional: Semi-modulating type - position feedback potentiometer<br>◦ Optional: 4 ~ 20 mA to send |
|                          |                                    | Malfunction Feedback  | ▪ Integrated fault alarm:<br>Motor overheating, over torque and such contacts<br>◦ Optional: Undercurrent protection contact  |
|                          | Modulating Type Signal             | Input   | ▪ N/A   |
|                          |                                    | Output  | ▪ N/A   |
|                          |                                    | Signal Reverse  | ▪ N/A   |
| Loss Signal Mode Setting |                                    | ▪ N/A   |   |
| Dead Zone                |                                    | ▪ N/A   |   |
| Time Lag                 |                                    | ▪ N/A   |   |
| Control mode             | Indication                         | ▪ 3D opening indicator  |   |
|                          | Operation Settings                 | ▪ N/A   |   |
|                          | Local Control                      | ▪ N/A   |   |
|                          | Intelligently Analyze Data Records | ▪ N/A   |   |
| Others                   | Other Function                     | ▪ Moisture-resistant heaters (anti-moisture device)<br>▪ Torque protection<br>▪ Motor overheat protection   |   |

## Integral ( M )



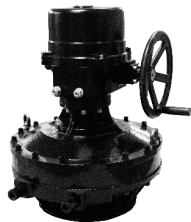
KSTQ03~08



KSTQ10~230



KSTQG1~3



KSTQG4~6

|                          |                                    |   |   |
|--------------------------|------------------------------------|---|---|
| General Parameters       | Torque Range                       | ▪ 10 - 20000 N.m  |   |
|                          | Switch Time                        | ▪ 11 - 155 s  |   |
|                          | Ambient Temperature                | ▪ -25 °C ... +70 °C   |   |
|                          | Anti-vibration Level               | ▪ JB/T8219  |   |
|                          | Noise Level                        | ▪ Less than 75 dB within 1 m  |   |
|                          | Electrical interface               | ▪ Two PG13.5(< 100N.m) Two PG16(≥100N.m) (customized)   |   |
|                          | Ingress Protection                 | ▪ IP67 , Optional:IP68 <small>The definition of IP68 is:Depth of water: Maximum 15 m under water level.Duration of continuous immersion in water: Max.(72 hours).</small>   |   |
|                          | Connection size                    | ▪ ISO5211   |   |
| Mechanical Parameters    | Motor Specifications               | ▪ Class F, with thermal protector up to +135 °C (+275 °F)<br>○ Optional: Class H  |   |
|                          | Working System                     | ▪ On/off type: S2 ~ 15 min<br>no more than 600 times per hour start<br>▪ Modulating type: S4~50% up to 600 triggers per hour<br>○ Optional: 1200 times per hour   |   |
|                          | Applicable Voltage                 | ▪ 1 phase: Voltage (±10 %); Hz (±5 %)<br>50 Hz (24, 220, 230, 240 Volts)<br>60 Hz (24, 110, 120, 220, 230, 240 Volts)<br>▪ 3 phase: Voltage (±10 %); Hz (±5 %)<br>50 Hz (220, 240, 380, 400, 460, 500, 550 Volts)<br>60 Hz (208, 220, 230, 240, 380, 440, 460, 480, 575 , 600 Volts)<br>▪ DC : 24 V (±10 %) |   |
|                          | Bus                                | ▪ N/A   |   |
|                          | On/off Type Signal                 | Input   | ▪ AC/DC 24 input control or AC 110/220 V input control  |
|                          |                                    | Signal Feedback   | ▪ Close the valve contact ▪ Open the valve contact (contact capacity: 5 A @ 250 Vac)<br>○ Optional : Opening torque signal contact<br>Closing torque signal contact Local/remote contacts<br>Integrated fault contact 4 ~ 20 mA to send |
|                          |                                    | Malfunction Feedback  | ▪ Integrated fault alarm: Power off, motor overheating, lack of phase, over torque, signal off  |
|                          | Modulating Type Signal             | Input   | ▪ Input signal : 4 - 20 mA; 0 - 10 V; 2 - 10 V<br>▪ Input impedance : 250 Ω (4 - 20 mA)   |
|                          |                                    | Output  | ▪ Output signal : 4 - 20 mA;0 - 10 V; 2 - 10 V<br>▪ Output impedance : ≤ 750 Ω (4 - 20 mA)<br>(Repeatability and linearity within ± 1 % of full valve stroke)   |
|                          |                                    | Signal Reverse  | ▪ Support   |
| Loss Signal Mode Setting |                                    | ▪ Support   |   |
| Dead Zone                |                                    | ▪ ≤ 2.5 %   |   |
| Time Lag                 | ▪ N/A                              |   |   |
| Control mode Others      | Indication                         | ▪ 3D opening indicator  |   |
|                          | Operation Settings                 | ▪ N/A   |   |
|                          | Local Control                      | ▪ N/A   |   |
|                          | Intelligently Analyze Data Records | ▪ N/A   |   |
|                          | Other Function                     | ▪ Phase correction(4-phase power supply only)<br>▪ Torque protection ▪ Motor overheat protection<br>▪ Moisture-resistant heaters (anti-moisture device)   |   |

# QUARTER TURN

REGULAR SERIES, EXPLOSION PROOF  
ON-OFF TYPE VS MODULATING TYPE

| REGULAR SERIES          | ON/OFF TYPE | MODULATING TYPE | Explosion-proof Series  | ON/OFF TYPE | MODULATING TYPE |
|-------------------------|-------------|-----------------|-------------------------|-------------|-----------------|
| Basic ( B )             | √           | —               | Basic ( B )             | √           | —               |
| Integral ( M )          | √           | √               | Integral ( M )          | √           | √               |
| Integration ( Y )       | √           | √               | Integration ( Y )       | √           | √               |
| Intelligent ( I )       | √           | √               | Intelligent ( I )       | √           | √               |
| Super Intelligent ( S ) | √           | √               | Super Intelligent ( S ) | √           | √               |

# QUARTER TURN

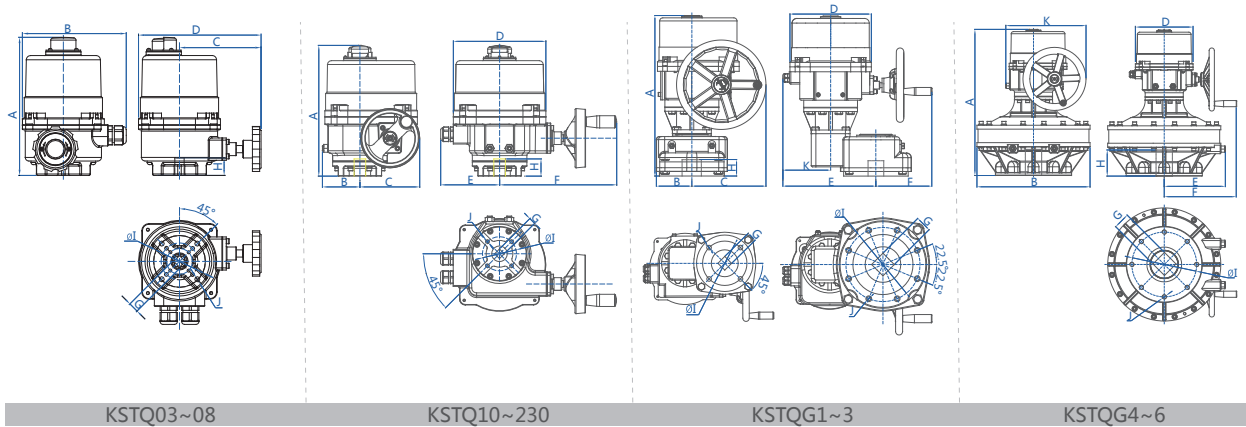
GENERAL SPECIFICATION  
— TECHNICAL PARAMETER CHART

| Model   | Power (W) | Max Output Torque(N.m)             |                                 | Max Output Torque(lbf.in)          |                                 | Running time (Sec)   |                     |               |                     | ISO 5211  | Remarks   |
|---------|-----------|------------------------------------|---------------------------------|------------------------------------|---------------------------------|----------------------|---------------------|---------------|---------------------|---|---|
|         |           | AC 110 V<br>AC 220 V<br>AC/DC 24 V | AC 220 V<br>AC 380 V<br>3 phase | AC 110 V<br>AC 220 V<br>AC/DC 24 V | AC 220 V<br>AC 380 V<br>3 phase | 50 Hz                |                     | AC/DC<br>24 V | Fail-safe           |   |   |
|         |           |                                    |                                 |                                    |                                 | AC 110 V<br>AC 220 V | AC 380 V<br>3 phase |               |                     |   |   |
|         |           |                                    |                                 |                                    |                                 |                      |                     |               |                     |   |   |
|         |           |                                    |                                 |                                    |                                 |                      |                     |               |                     |   |   |
|         |           |                                    |                                 |                                    |                                 |                      |                     |               |                     |   |   |
| KSTQ03  | 10        | 35                                 | -                               | 310                                | -                               | 11                   | -                   | 8             |                     | F03/F05/<br>F07   | Manual wrench<br>options:<br>Handwheel<br>Handwheel |
| KSTQ05  |           | 50                                 | -                               | 443                                | -                               | 15                   | -                   | 10            |                     |   |   |
| KSTQ08  |           | 80                                 | -                               | 708                                | -                               | 22                   | -                   | 15            |                     |   |   |
| KSTQ10  | 40        | 100                                |                                 | 885                                |                                 | 19                   |                     | 14            | F05/F07/<br>F10/F12 | Handwheel<br>operation,<br>planetary<br>gear<br>mechanism |   |
| KSTQ20  |           | 200                                |                                 | 1770                               |                                 | 39                   |                     | 28            |                     |   |   |
| KSTQ30  |           | 300                                |                                 | 2655                               |                                 | 39                   |                     | 28            |                     |   |   |
| KSTQ40  | 90        | 400                                |                                 | 3540                               |                                 | 29                   |                     | 21            | F10/F12/<br>F14     |   |   |
| KSTQ60  |           | 600                                |                                 | 5310                               |                                 | 39                   |                     | 28            |                     |   |   |
| KSTQ80  |           | 800                                |                                 | 7080                               |                                 | 47                   |                     | 34            |                     |   |   |
| KSTQ100 | 120       | 1000                               |                                 | 8850                               |                                 | 47                   |                     | 34            | F12/F14/<br>F16     |   |   |
| KSTQ130 |           | 1300                               |                                 | 11505                              |                                 | 47                   |                     | 34            |                     |   |   |
| KSTQ170 |           | 1700                               |                                 | 15045                              |                                 | 34                   |                     | 25            |                     |   |   |
| KSTQ200 | 200       | 2000                               |                                 | 17700                              |                                 | 34                   | 25                  | -             | F14/F16             |   |   |
| KSTQ230 |           | 2300                               |                                 | 20355                              |                                 | 47                   | 34                  | -             |                     |   |   |
| KSTQG1  |           | 3500                               |                                 | 30975                              |                                 | 76                   | 55                  | -             |                     |   |   |
| KSTQG2  | 400       | 5000                               |                                 | 44250                              |                                 | 105                  | 76                  | -             | F25                 |   |   |
| KSTQG3  |           | 8000                               |                                 | 70800                              |                                 | 143                  | 103                 | -             |                     |   |   |
| KSTQG4  | 400       | -                                  | 13000                           | -                                  | 115050                          | -                    | 109                 | -             | F25/F30             |   |   |
| KSTQG5  |           | -                                  | 16000                           | -                                  | 141600                          | -                    | 129                 | -             |                     |   |   |
| KSTQG6  |           | -                                  | 20000                           | -                                  | 177000                          | -                    | 155                 | -             |                     |   |   |

Note: Standard configuration.

1. Rated torque is 75 % of the max torque.
2. Motor insulation is class F, class H is optional.
3. The running time of 60 Hz is 5/6 of that of 50 Hz. The max output torque is the same as above.
4. Above mentioned 3 phase output power doesn't apply to EFM1-(H),EFMA-(H).

— BASIC TYPE & INTEGRAL TYPE



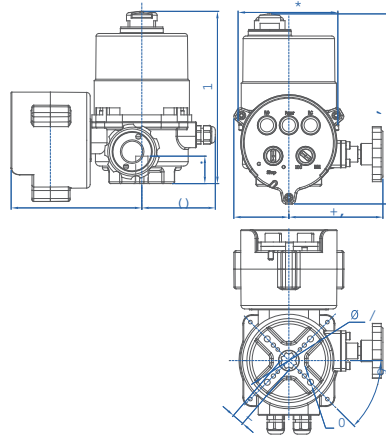
| Model                        |            | A   | B     | C   | D   | E   | F              | G                       | H     | ΦI         | J              | Weight (kg) |     |
|------------------------------|------------|-----|-------|-----|-----|-----|----------------|-------------------------|-------|------------|----------------|-------------|-----|
| KSTQ03<br>KSTQ05<br>KSTQ08   | On/off     | 192 | 150   | 135 | 170 | -   | -              | 11x11<br>14x14          | 20    | 36         | 4-M5           | 3.6         |     |
|                              | Modulating | 212 |       | 135 | 170 | -   | -              | 17x17                   |       | 50         | 4-M6           | 3.8         |     |
| KSTQ10<br>KSTQ20<br>KSTQ40   |            | 268 | 77    | 123 | 216 | 121 | 240            | 14x14<br>17x17<br>22x22 | 35    | 70<br>102  | 4-M8<br>4-M10  | 11          |     |
| KSTQ60                       |            | 327 | 103   | 187 | 266 | 150 | 297            | 22x22<br>27x27          | 55    | 102<br>125 | 4-M10<br>4-M12 | 22          |     |
| KSTQ80<br>KSTQ100<br>KSTQ170 |            | 380 | 127   | 242 | 293 | 161 | 333            | 27x27                   | 65    | 125        | 4-M12          | 36          |     |
| KSTQ230                      | 36x36      |     |       |     |     |     |                | 140                     |       | 4-M16      |                |             |     |
| KSTQG1                       |            | 532 | 118   | 242 | 293 | 308 | 186            | 40x40                   | 85    | 140<br>165 | 4-M16<br>4-M20 | 76          |     |
| KSTQG2                       |            | 545 | 160   | 242 |     | 343 | 160            | 55x55                   | 46x46 | 130        | 165            | 4-M20       | 107 |
| KSTQG3                       |            |     |       |     |     |     |                |                         | 254   |            | 8-M16          |             |     |
| KSTQG4<br>KSTQG5<br>KSTQG6   |            | 672 | 520   | -   | 281 | 331 | 55x55<br>75x75 | 120                     | 298   | 254        | 8-M16          | 218         |     |
|                              |            | 298 | 8-M20 |     |     |     |                |                         |       |            |                |             |     |

Note: 1. Dimension unit is mm.  
 2. Above "G" dimension is what we recommended. However, it can be customized according to customers' requirements.  
 3. Above "ΦI" and "J" dimensions are in accordance with ISO 5211 flange specifications. Which means that there's only one specification can be chosen, please specify when ordering.

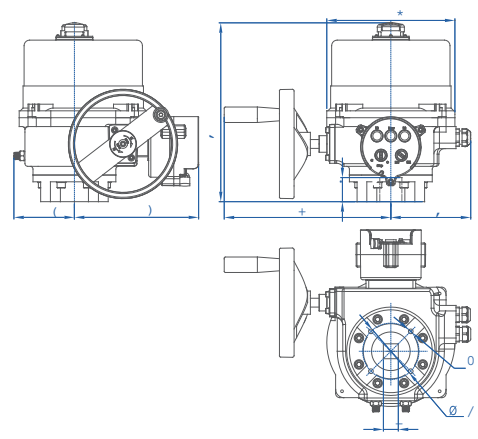
| BASIC TYPE                          |   | INTEGRAL TYPE                       |   |
|-------------------------------------|---|-------------------------------------|---|
| <b>More functions as options:</b>   | <input type="checkbox"/> Quick open <input type="checkbox"/> Slow open<br>(The running time can be customized. Quick and slow open functions are added.)    | <b>More functions as options:</b>   | <input type="checkbox"/> Quick Open <input type="checkbox"/> Slow Open<br>(The running time can be customized. Quick and slow open functions are added.)  |
| <b>More accessories as options:</b> | <input type="checkbox"/> Flange <input type="checkbox"/> Spline sleeve<br><input type="checkbox"/> Independent wiring box <input type="checkbox"/> Sprocket | <b>More accessories as options:</b> | <input type="checkbox"/> Battery mackup <input type="checkbox"/> Capacitor return <input type="checkbox"/> Spring return (Fail-safe)<br><input type="checkbox"/> Flange <input type="checkbox"/> Spline sleeve<br><input type="checkbox"/> Independent wiring box <input type="checkbox"/> Sprocket |

# QUARTER TURN DIMENSION

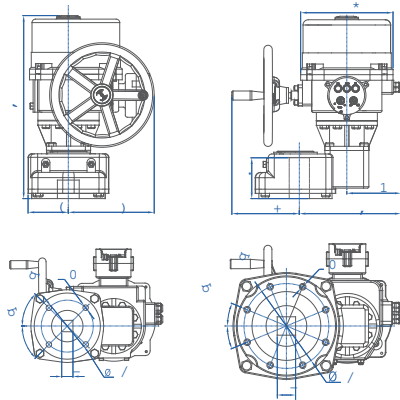
## INTEGRATION TYPE



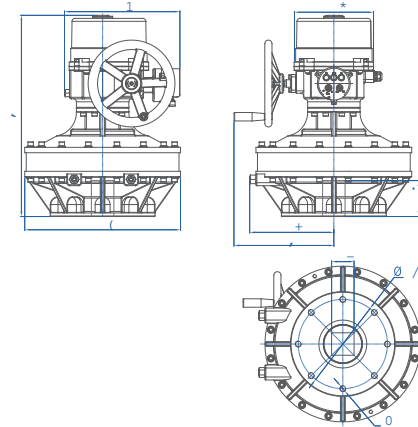
KSTQ03~08



KSTQ10~230



KSTQG1-3



KSTQG4-6

| 3 UJ K R |            | A   | B   | C   | D   | E   | F   | G       | H   | ΦI  | J      | K   | Weight (kg) |
|----------|------------|-----|-----|-----|-----|-----|-----|---------|-----|-----|--------|-----|-------------|
| KSTQ03   | On-off     | 217 | 149 | 84  | 114 | 63  | 108 | 11 X 11 |     | 36  | 4- M5  |     | 4.7         |
| KSTQ05   | Modulating |     |     |     |     |     |     | 14 X 14 | 20  | 50  | 4- M6  | 197 |             |
| KSTQ08   |            | 237 |     |     |     |     |     | 17 X 17 |     | 70  | 4- M8  |     | 4.9         |
| KSTQ10   |            | 268 | 77  | 208 | 190 | 240 | 121 | 14 X 14 | 35  | 70  | 4- M8  | -   | 12.2        |
| KSTQ20   |            |     |     |     |     |     |     | 17 X 17 |     |     |        |     |             |
| KSTQ40   |            |     |     |     |     |     |     | 22 X 22 |     | 102 | 4- M10 |     |             |
| KSTQ60   |            |     |     |     |     |     |     | 22 X 22 |     | 102 | 4- M10 |     |             |
| KSTQ80   |            | 327 | 110 | 225 | 266 | 301 | 145 | 27 X 27 | 55  | 125 | 4- M12 | -   | 23.2        |
| KSTQ100  |            |     |     |     |     |     |     | 27 X 27 |     | 125 | 4- M12 |     |             |
| KSTQ170  |            |     |     |     |     |     |     | 27 X 27 |     | 125 | 4- M12 |     |             |
| KSTQ230  |            | 380 | 127 | 248 | 265 | 333 | 161 | 36 X 36 | 65  | 140 | 4- M16 | -   | 37.2        |
| KSTQG1   |            | 532 | 118 | 242 | 265 | 194 | 292 | 40 X 40 | 85  | 140 | 4- M16 |     |             |
| KSTQG2   |            |     |     |     |     |     |     | 46 X 46 |     | 165 | 4- M20 | 156 | 77.2        |
| KSTQG3   |            | 545 | 160 | 242 | 265 | 168 | 343 | 55 X 55 | 130 | 254 | 8- M16 | 156 | 108.2       |
| KSTQG4   |            |     |     |     |     |     |     |         |     |     |        |     |             |
| KSTQG5   |            | 672 | 520 | -   | 265 | 281 | 331 | 55 X 55 | 120 | 254 | 8- M16 | 385 | 219.2       |
| KSTQG6   |            |     |     |     |     |     |     | 75 X 75 |     | 298 | 8- M20 |     |             |

Note: 1. Dimension unit is mm.

2. Above "G" dimension is what we recommended. However, it can be customized according to customers' requirements.

3. Above "ΦI" and "J" dimensions are in accordance with ISO 5211 flange specifications. Which means that there's only one specification can be chosen, please specify when ordering.

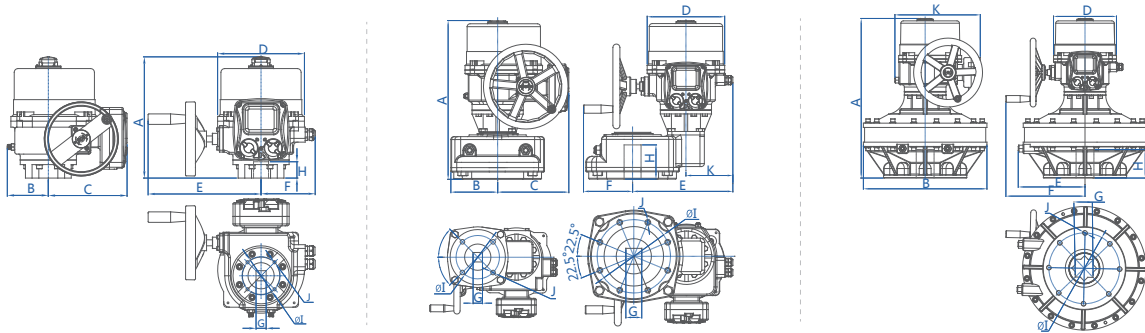
### INTEGRATION TYPE

More functions as options:  Quick Open  Slow Open  Battery backup  Capacitor return  Spring return

More accessories as options:  Flange  Spline sleeve  Independent wiring box  Sprocket

# DIMENSION **QUARTER TURN**

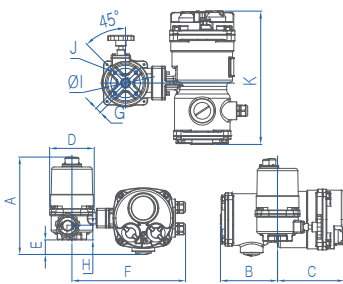
— INTELLIGENT TYPE



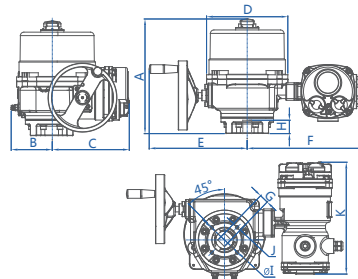
| KSTQ10~230 |         |     |     | KSTQG1~3 |     |     |         | KSTQG4~6 |        |        |     | Weight (kg) |
|------------|---------|-----|-----|----------|-----|-----|---------|----------|--------|--------|-----|-------------|
| Model      | A       | B   | C   | D        | E   | F   | G       | H        | ΦI     | J      | K   |             |
| KSTQ10     | 268     | 79  | 198 | 190      | 240 | 121 | 14 X 14 | 35       | 70     | 4- M8  | -   | 13          |
| KSTQ20     |         |     |     |          |     |     | 17 X 17 |          |        |        |     |             |
| KSTQ40     |         |     |     |          |     |     | 22 X 22 |          |        |        |     |             |
| KSTQ60     |         |     |     |          |     |     | 22 X 22 |          |        |        |     |             |
| KSTQ80     | 27 X 27 | 145 | 210 | 232      | 301 | 161 | 27 X 27 | 55       | 102    | 4- M10 | 24  |             |
| KSTQ100    | 27 X 27 |     |     |          |     |     | 125     |          | 4- M12 |        |     |             |
| KSTQ170    | 27 X 27 |     |     |          |     |     | 125     |          | 4- M12 |        |     |             |
| KSTQ230    | 36 X 36 |     |     |          |     |     | 140     |          | 4- M16 |        |     |             |
| KSTQG1     | 532     | 118 | 227 | 265      | 180 | 300 | 40 X 40 | 85       | 140    | 4- M16 | 156 | 78          |
| KSTQG2     |         |     |     |          |     |     | 46 X 46 |          | 165    | 4- M20 |     |             |
| KSTQG3     | 545     | 160 | 244 | 265      | 168 | 343 | 55 X 55 | 130      | 254    | 8- M16 | 156 | 109         |
| KSTQG4     |         |     |     |          |     |     |         |          | 254    | 8- M16 |     |             |
| KSTQG5     | 672     | 520 | -   | 265      | 281 | 331 | 55 X 55 | 120      | 298    | 8- M20 | 385 | 220         |
| KSTQG6     |         |     |     |          |     |     | 75 X 75 |          |        |        |     |             |

# DIMENSION **QUARTER TURN**

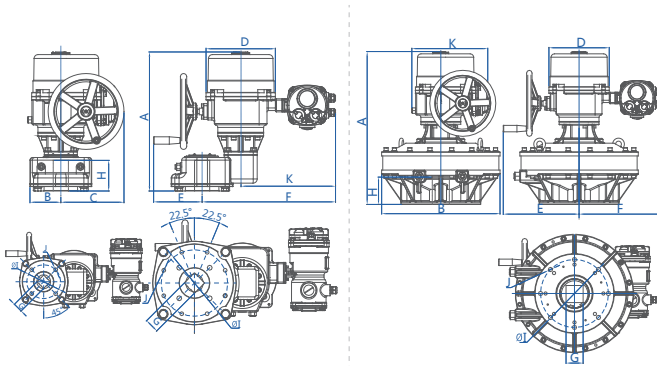
— SUPER INTELLIGENT TYPE



KSTQ03~08



KSTQ10~230



KSTQG1~3

KSTQG4~6

| Model   | A       | B   | C   | D   | E   | F   | G       | H   | ΦI    | J     | K   | Weight (kg) |
|---------|---------|-----|-----|-----|-----|-----|---------|-----|-------|-------|-----|-------------|
| KSTQ03  | 212     | 147 | 172 | 115 | 65  | 298 | 14 X 14 | 30  | 50    | 4-M6  | 319 | 8           |
| KSTQ05  |         |     |     |     |     |     |         |     |       |       |     |             |
| KSTQ08  |         |     |     |     |     |     |         |     |       |       |     |             |
| KSTQ10  | 268     | 79  | 198 | 190 | 240 | 121 | 14 X 14 | 35  | 70    | 4-M8  | 319 | 13          |
| KSTQ20  |         |     |     |     |     |     | 17 X 17 |     |       |       |     |             |
| KSTQ40  |         |     |     |     |     |     | 22 X 22 |     |       |       |     |             |
| KSTQ60  |         |     |     |     |     |     | 22 X 22 |     |       |       |     |             |
| KSTQ80  | 27 X 27 | 145 | 210 | 232 | 301 | 338 | 27 X 27 | 55  | 102   | 4-M10 | 319 | 24          |
| KSTQ100 | 27 X 27 |     |     |     |     |     | 125     |     | 4-M12 |       |     |             |
| KSTQ170 | 27 X 27 |     |     |     |     |     | 125     |     | 4-M12 |       |     |             |
| KSTQ230 | 36 X 36 |     |     |     |     |     | 140     |     | 4-M16 |       |     |             |
| KSTQG01 | 532     | 118 | 227 | 265 | 180 | 510 | 40 X 40 | 85  | 140   | 4-M16 | 361 | 78          |
| KSTQG02 |         |     |     |     |     |     | 46 X 46 |     | 165   | 4-M20 |     |             |
| KSTQG03 | 545     | 160 | 244 | 265 | 168 | 545 | 55 X 55 | 130 | 254   | 8-M16 | 361 | 109         |
| KSTQG04 |         |     |     |     |     |     |         |     | 254   | 8-M16 |     |             |
| KSTQG05 | 672     | 520 | -   | 265 | 281 | 363 | 55 X 55 | 120 | 298   | 8-M20 | 333 | 220         |
| KSTQG06 |         |     |     |     |     |     | 75 X 75 |     |       |       |     |             |

Note: 1. Dimension unit is mm.

2. Above "G" dimension is what we recommended. However, it can be customized according to customers' requirements.

3. Above "ΦI" and "J" dimensions are in accordance with ISO 5211 flange specifications. Which means that there's only one specification can be chosen, please specify when ordering.


## INTELLIGENT TYPE/ SUPER INTELLIGENT TYPE

### More functions as options:

- Quick Open     Slow Open
- (The running time can be customized. Quick and slow open functions are added.)
- Battery backup     Capacitor return     Spring return (Fail-safe)

### More accessories as options:

- Flange     Spline sleeve
- Independent wiring box     Sprocket     Remote control



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