



# DVG AUTOMATION

the excellence in flow control automation

**"QT" SERIES**  
Hydraulic ACTUATORS

## INTRODUCTION

The DVG Automation “QT” Scotch Yoke Series incorporates several new design features to provide higher efficiency and cost effective solutions. These actuators are compact in design but above all introduce a new generation of patented mechanism which minimizes wearing effect on all loaded & sliding parts, thus extending overall lifespan.

These features boost our QT Series for all modulating as well as heavy-duty services suitable for any quarter turn (90 deg) application.



## OPERATING RANGE

The DVG Automation Double-acting QT Series Actuators are available with individual test and guaranteed minimum output torque ranging from 1,800 Nm (15,900 lb-in) to 180,000 Nm (1,593,000 lb-in).

Our Single Acting QT series Actuators deliver a spring ending torque ranging from 1,350 Nm (11,950 lb-in) to 75,700 Nm (670,000 lb-in). Higher output torques are available on request.

The Hydraulic operating pressure for the QT Series ranges between 20 barg (290 psig) to 350 barg (5,000 psig).

Standard design construction allows operating temperature from -30 degC (-22 degF) to +93 degC (+199 degF).

Low temperature option extends operating range down to -60 degC (-76 degF).

Supply medium:

Hydraulic oil mineral based (standard). Special versions are available for fire-resistant or water based fluids.



**DVG AUTOMATION**



# KEY DESIGN FEATURES & ADVANTAGES

## Scotch Yoke:

PATENTED mechanism introduces three main features:

Quad Guide Bars Design

Piston Rod-Guide Block New Design Connection

Closed Drive Yoke Wings for all housing sizes

## Mechanism Guide System:

PATENTED Quad Guide Bar hard chromium plated minimizing guide block swing extending piston rod lifespan under heavy load &/or continuous modulating duty and avoiding any side load on valve stem.

Excellent surface finish and self lubricated bearings accomplish higher overall efficiency.

## External Tie Rod:

External tie-rods, zinc based chemical coating which resists 500 – 1000 hours of salt fog, maintain cylinder integrity.

## Symmetric or canted yoke:

QT Series is available with either symmetric or canted yoke design to cover as closely as possible valve resistive torque profile.

## Water ingress protection:

Totally enclosed and weather-proof actuator is engineered to meet IP66, IP67 IP67M and NEMA 4 & 4X Specifications for submerged and high pressure water deluge applications.

## Materials:

Cylinder Tube & all structural parts are manufactured in carbon steel material:

no cast/grey iron or aluminium parts are used.

All pressure containing parts are supplied with 3.1 Certificate according to EN10204.

DVG Automation guarantees, where applicable, that actuators are designed and manufactured according to PED (97/23 CE) Directive.

## Corrosion Prevention:

Cylinder tube is internally nickel-plated lined (minimum 25µm). Nickel-plating layer can be increased upon request.

External coating provides higher reliability in harsh environmental conditions as per ISO 12944 (Expected Durability) and in compliance with NORSOK M-CR-501 requirements.

## Seal:

Teflon ring with internal charging O-ring and external sealing O-ring prevents sticking phenomena after prolonged “stand still” and ensures reduced hysteresis and high sensitivity.

## Bearing:

Dual piston PTFE sliding guide, yoke and guide block are mounted with steel bronze Teflon coated bushing to minimize wearing effect and obtain higher sensitivity.

## ISO Valve Mounting:

The QT Series valve interface responds to ISO 5211 dimensional requirements according to specific torque range. Different arrangements can be evaluated to meet specific need (i.e. MSS SP-101, etc.); direct mounting is feasible if available space permits.

## Labelling:

316 Stainless Steel embossed name plate ensures long lasting information preservation, thus guaranteeing lifetime traceability.

## Travel stops:

External travel stops with protective cap ensure precise angular stroke adjustment 90 -5deg/+5deg.

## Versatility & Modularity: key features for a successful design

The QT series has been designed with modular concept in mind so to have field repairable housing, power, spring and override modules available as individual sub-assemblies to optimize spare parts inventory. Each module can be removed, serviced &/or replaced while actuator is still assembled onto the valve, without interrupting the process.

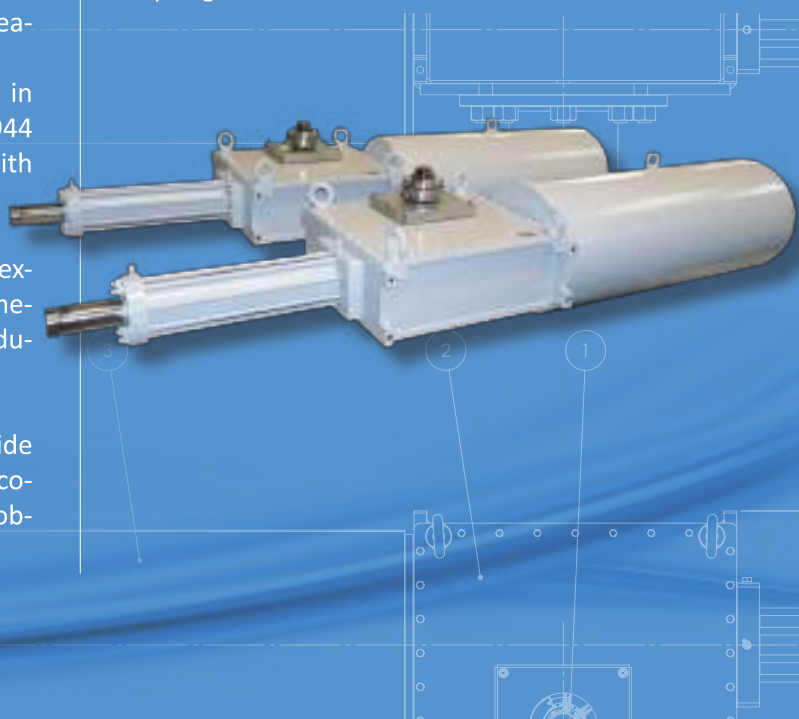
Specifically power module is designed and constructed to allow pressure testing independently from the housing.

Power and spring modules can be easily swapped allowing fast fail safe action reversal.

## Safety:

Lifting point by means of DIN certified eyelet located on actuator housing.

Fully welded o-ring sealed spring canister module is inherently safe; the DVG Automation adopted system allows safe assembly/disassembly without any risk for the personnel due to residual spring force.



## OPTIONAL FEATURES

### Mounting pad:

Accessory mounting pad allows dual side mounting & does not require any fixing modification in case of rear side assembly.

### Manual Override Option:

DVG Automation provides hydraulic manual override (MH) to operate the valve in absence of power supply. Hydraulic manual override is mounted directly on actuator cylinder and includes:

hand-pump, directional control valve, oil tank, relief valve & check valve (for single acting units).

Remote hydraulic power units are available: contact factory.

Additional ancillary control equipment can be provided upon request.

An additional alternative cost effective jackscrew is available for the DVG Automation QT Series where torque demand permits. Travel stop is separate from the jackscrew to avoid incorrect positioning of the of the valve / actuator.

Jackscrew develops required torque in case of hydraulic supply failure;

Available with declutch-able and locking devices to avoid spurious actuator operation.

### Mechanical locking device

This device is wafer-mounted between the actuator and the valve, normally integrated in valve mounting hardware. It offers basic partial stroke testing for Emergency Shutdown Valve automated package and it can be used for other safety process applications. The locking device mechanically limits the valve/actuator assembly travel to 20deg (or as per specific Customer request) clockwise or counter-clockwise. Once disengaged, the complete assembly is free to travel for the entire stroke with no interference.



## CONTROL SYSTEM

Actuator Control Systems are integral part of any automated valve package. Our QT Series Actuators can be equipped with an extensive range of auxiliary components specifically engineered and integrated to meet the largest variety of Customers' requests either for ON/OFF or modulating duty.

Our Control Systems can be housed within cabinet or onto a stainless steel (SS 316) back-plate with upper portion folded over to form a sun-shade, and assembled on actuator or at remote location.

DVG Automation has already pre-engineered different solutions to meet the most commonly required control systems. These solutions, based on standard components, offer reduced lead time, simplified purchasing, commissioning and start-up activities. Please contact factory for any additional detail.

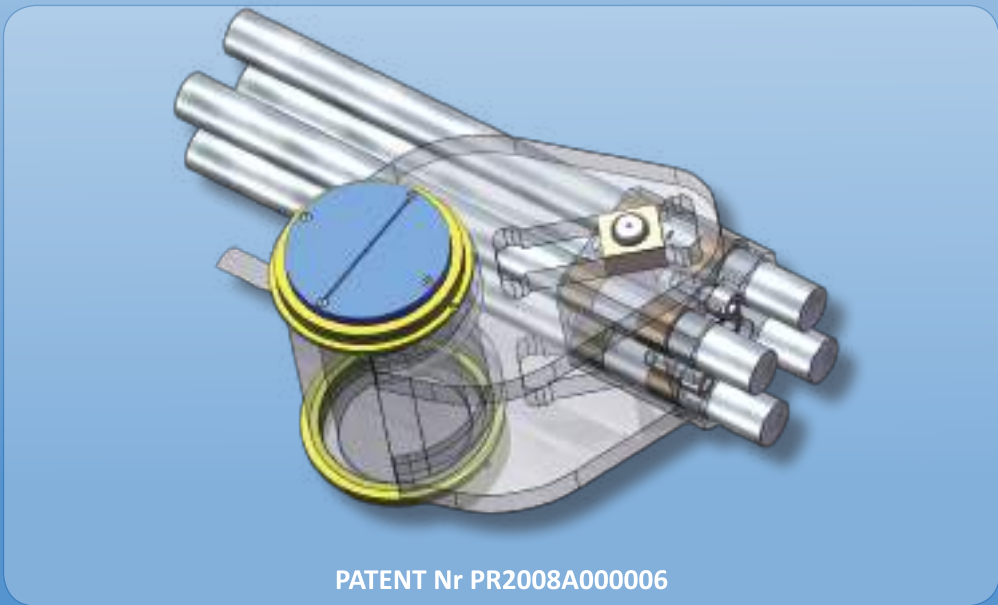
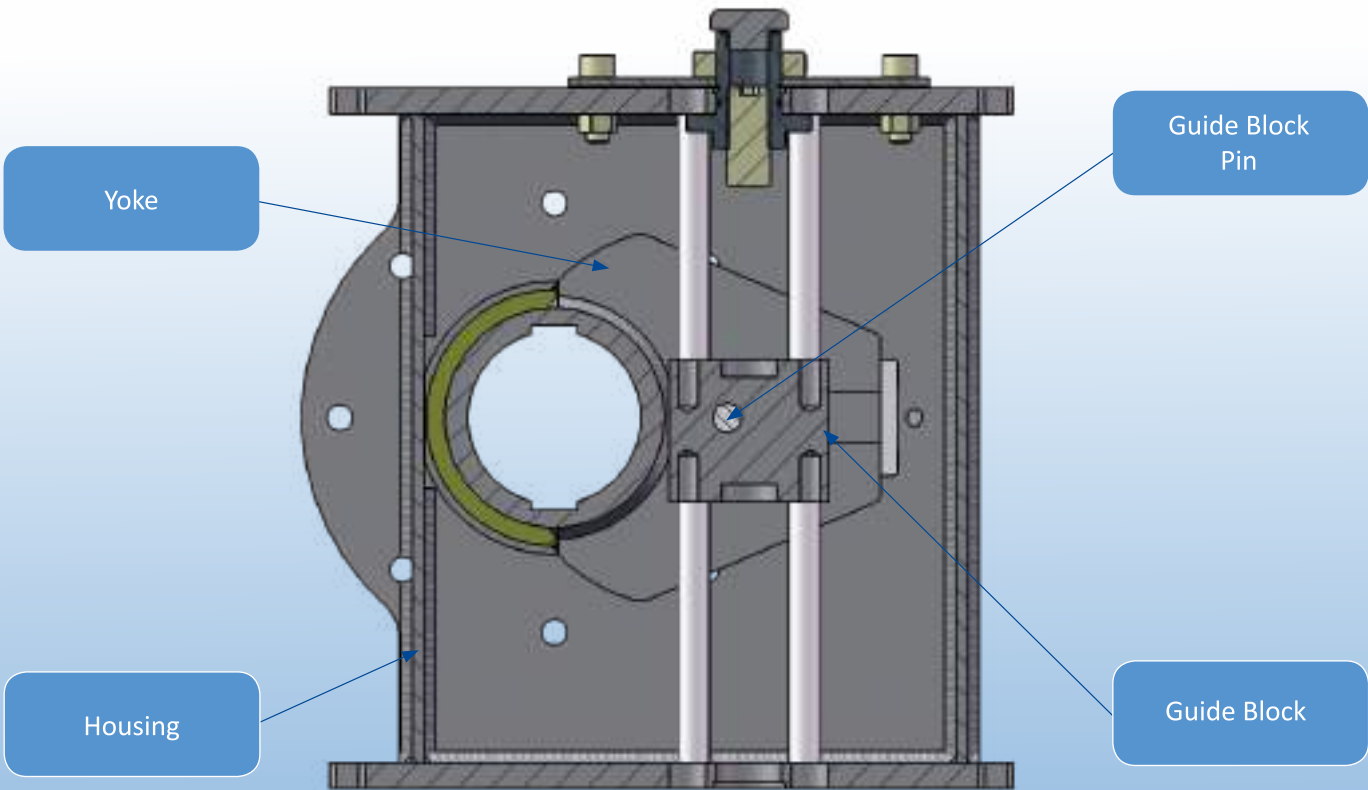
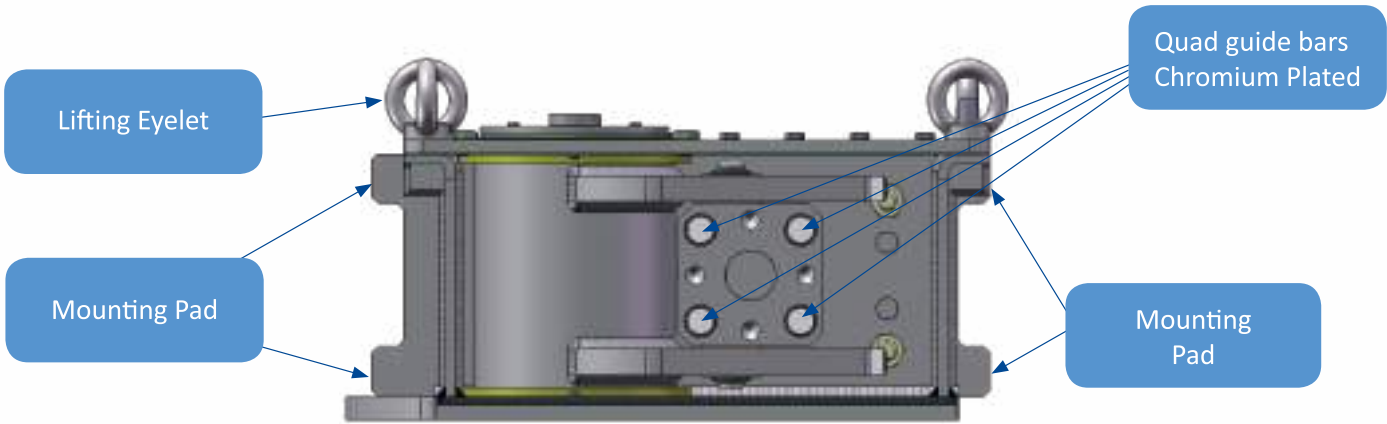
### Position Monitor Device:

All positioning monitor devices can be assembled on top of our QT Series actuators, responding to any kind of technical requirement.



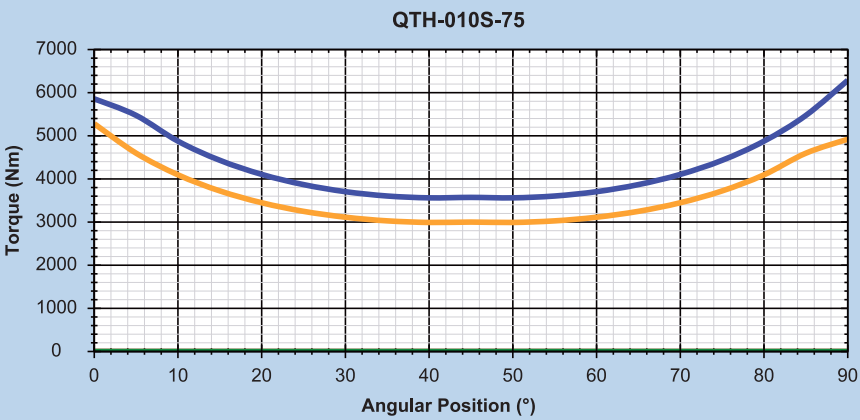


# SCOTCH YOKE



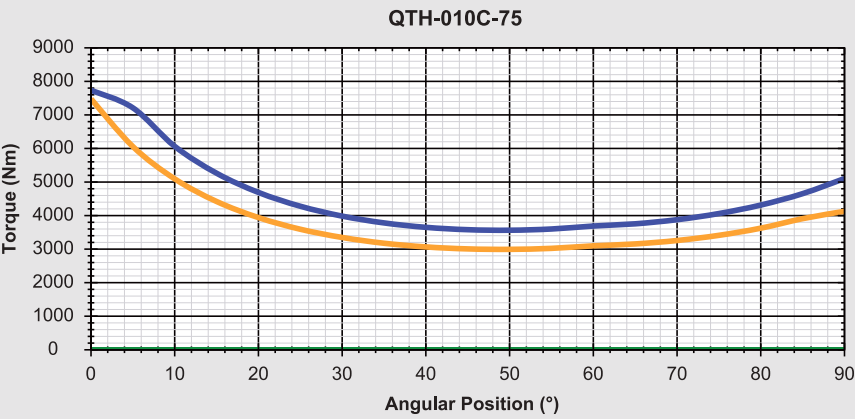
PATENT Nr PR2008A000006

# QT SERIES double acting torque

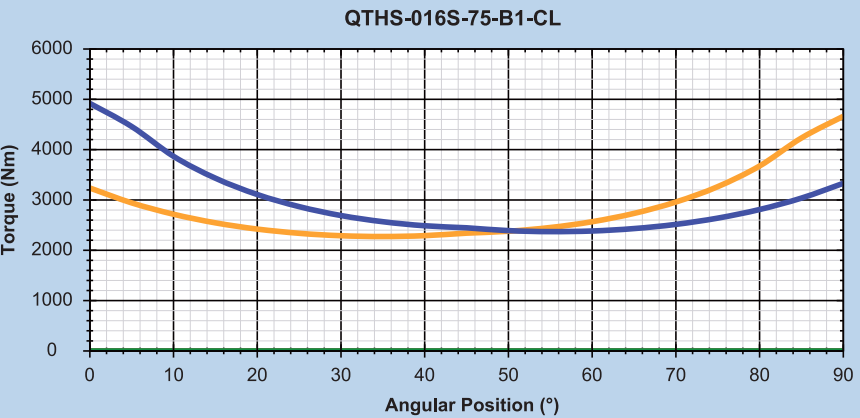


**FIGURE 1**  
Torque for symmetric double acting QT

**FIGURE 2**  
Torque for canted double acting QT

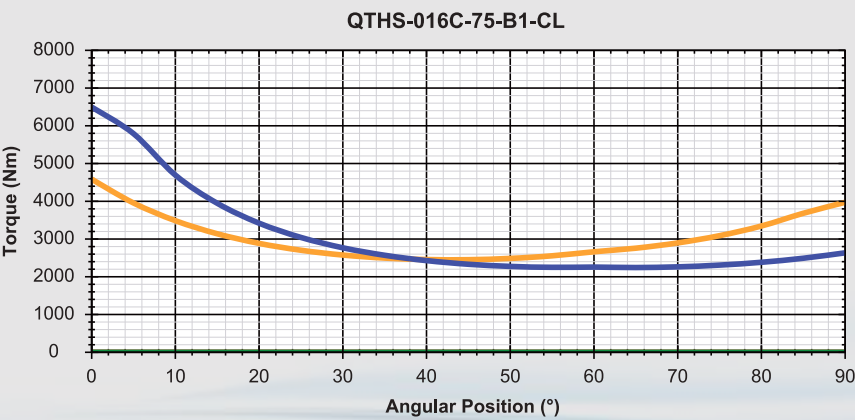


# QT SERIES single acting torque



**FIGURE 3**  
Torque for symmetric single acting QT

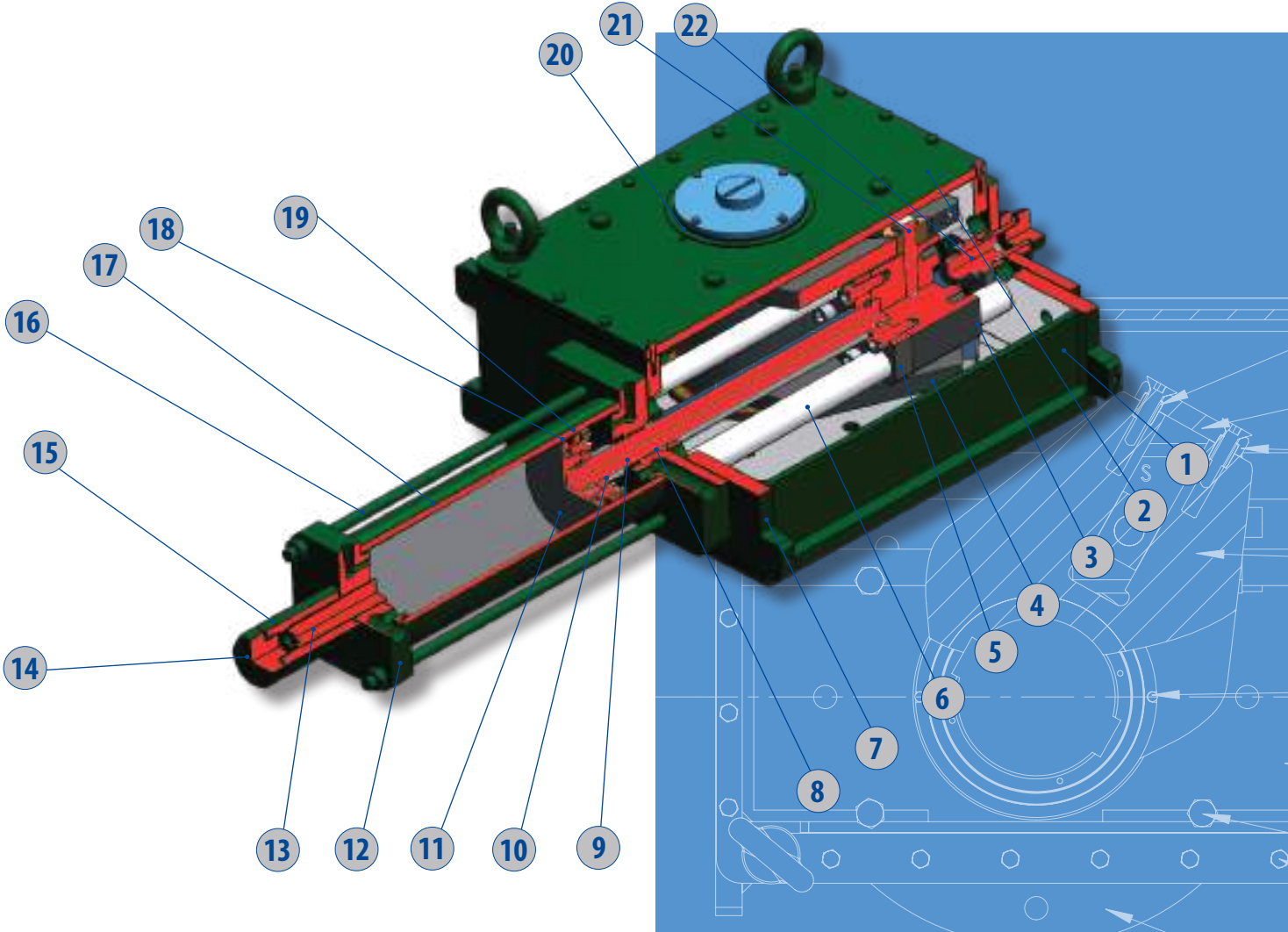
**FIGURE 4**  
Torque for canted single acting QT





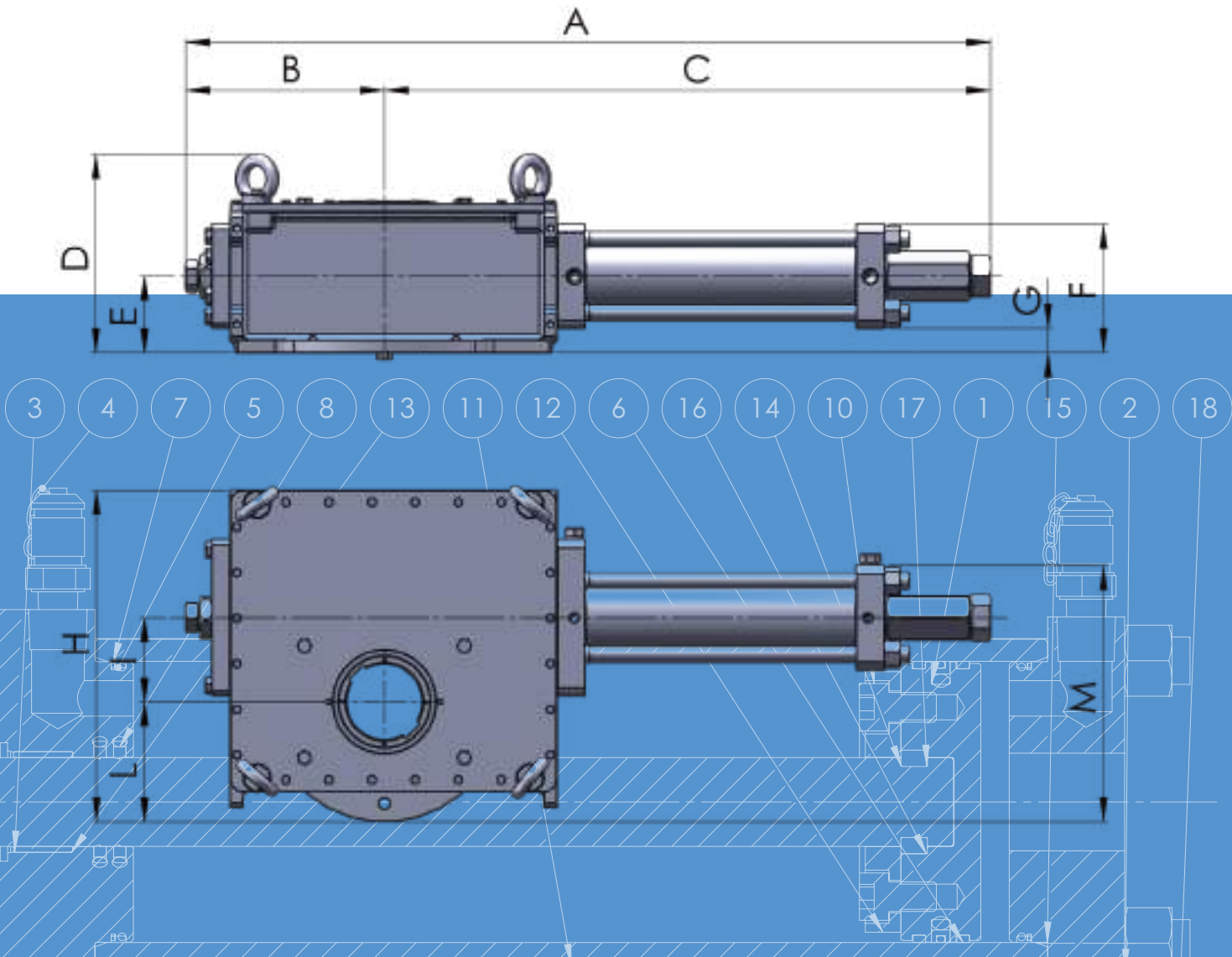
# QT SERIES

## DOUBLE ACTING SECTIONAL DRAWING



| ITEM | DESCRIPTION           | EN MATERIAL                        | ASTM MATERIAL                      |
|------|-----------------------|------------------------------------|------------------------------------|
| 1    | Housing               | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 2    | Cover                 | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 3    | Guide block bushing   | Carbon steel + Bronze + PTFE       | Carbon steel + Bronze + PTFE       |
| 4    | Scotch yoke           | S355 J2G3 EN 10025 + E355 EN 10297 | ASTM A570 Gr. 50 + ASTM A500 Gr. C |
| 5    | Guide block           | S355JR EN 10025                    | ASTM A572 Gr 50                    |
| 6    | Guide bar             | 42CrMo4 EN10083                    | AISI (4140)                        |
| 7    | Cylinder Head flange  | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 8    | Piston rod bushing    | Carbon steel + Bronze + PTFE       | Carbon steel + Bronze + PTFE       |
| 9    | Piston rod seal       | NBR (FKM – MFQ – CR)               | NBR (FKM – MFQ – CR)               |
| 10   | Piston rod            | 42CrMo4 EN10083                    | AISI (4140)                        |
| 11   | Piston                | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 12   | Cylinder End flange   | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 13   | Travel stop screw     | Class 45H ISO 4026                 | Class 45H ISO 4026                 |
| 14   | Plug                  | X5 CrNi 18 10                      | ASTM A276/276MTP304                |
| 15   | Stop screw protection | X5 CrNi 18 10                      | ASTM A276/276MTP304                |
| 16   | Tie rod               | ASTM A320L7                        | ASTM A320L7                        |
| 17   | Cylinder tube         | E355K2+N EN10297 – E355+N EN10305  | ASTM A580 Grade C                  |
| 18   | Piston seal           | NBR (FKM – MFQ – CR)               | NBR (FKM – MFQ – CR)               |
| 19   | Piston sliding guide  | PTFE+Graphite                      | PTFE+Graphite                      |
| 20   | Yoke bushing          | Carbon steel + Bronze + PTFE       | Carbon steel + Bronze + PTFE       |
| 21   | Guide block pin       | 42CrMo4 EN10083                    | AISI (4140)                        |
| 22   | Travel stop screw     | Class 45H ISO 4026                 | Class 45H ISO 4026                 |

# QT DOUBLE ACTING OVERALL DIMENSIONS

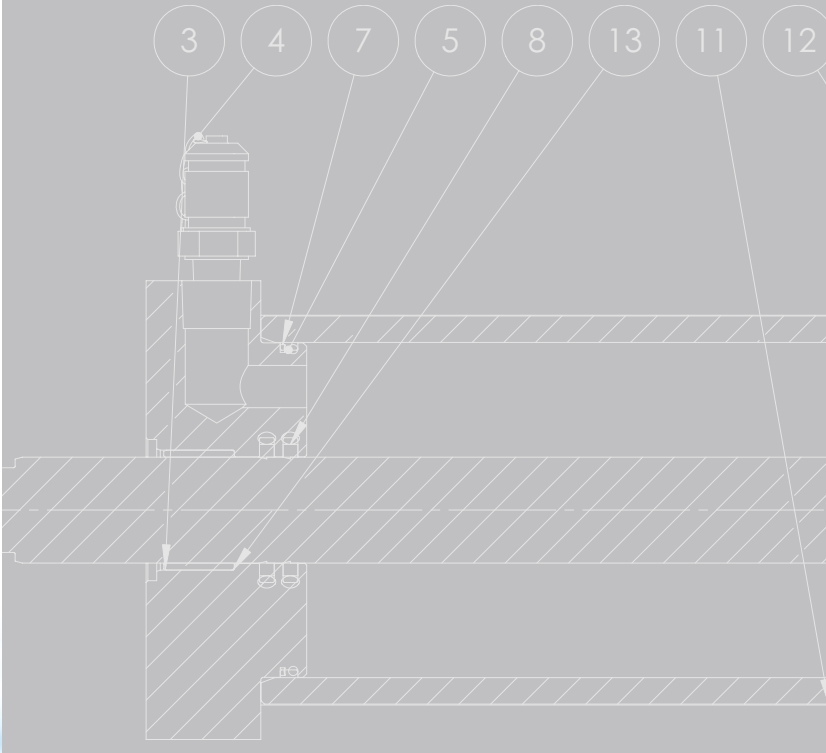


| Model Size     | A    | B   | C    | D   | E   | F   | G  | H   | I   | L   | M   | Weight(Kg) |
|----------------|------|-----|------|-----|-----|-----|----|-----|-----|-----|-----|------------|
| QTH-010S/C-40  | 980  | 249 | 731  | 248 | 96  | 146 | 46 | 415 | 105 | 150 | 305 | 90         |
| QTH-010S/C-45  | 980  | 249 | 731  | 248 | 96  | 146 | 46 | 415 | 105 | 150 | 305 | 90         |
| QTH-010S/C-55  | 992  | 249 | 743  | 248 | 96  | 156 | 36 | 415 | 105 | 150 | 315 | 95         |
| QTH-010S/C-65  | 1003 | 249 | 754  | 248 | 96  | 156 | 36 | 415 | 105 | 150 | 315 | 95         |
| QTH-010S/C-75  | 1008 | 249 | 759  | 248 | 96  | 161 | 31 | 415 | 105 | 150 | 320 | 100        |
| QTH-010S/C-95  | 1008 | 249 | 759  | 248 | 96  | 159 | 34 | 415 | 105 | 150 | 318 | 104        |
| QTH-010S/C-120 | 1008 | 249 | 759  | 248 | 96  | 172 | 20 | 415 | 105 | 150 | 331 | 110        |
| QTH-016S/C-50  | 1120 | 293 | 827  | 277 | 111 | 171 | 51 | 497 | 135 | 176 | 371 | 158        |
| QTH-016S/C-65  | 1130 | 293 | 837  | 277 | 111 | 174 | 49 | 497 | 135 | 176 | 374 | 158        |
| QTH-016S/C-75  | 1160 | 293 | 867  | 277 | 111 | 174 | 49 | 497 | 135 | 176 | 374 | 165        |
| QTH-016S/C-95  | 1162 | 293 | 869  | 277 | 111 | 174 | 49 | 497 | 135 | 176 | 374 | 170        |
| QTH-016S/C-120 | 1162 | 293 | 869  | 277 | 111 | 187 | 35 | 497 | 135 | 176 | 387 | 174        |
| QTH-016S/C-135 | 1167 | 293 | 874  | 277 | 111 | 194 | 29 | 497 | 135 | 176 | 394 | 178        |
| QTH-030S/C-65  | 1520 | 406 | 1114 | 323 | 130 | 193 | 68 | 638 | 180 | 208 | 451 | 295        |
| QTH-030S/C-75  | 1520 | 406 | 1114 | 323 | 130 | 195 | 65 | 638 | 180 | 208 | 453 | 300        |

# QT DOUBLE ACTING

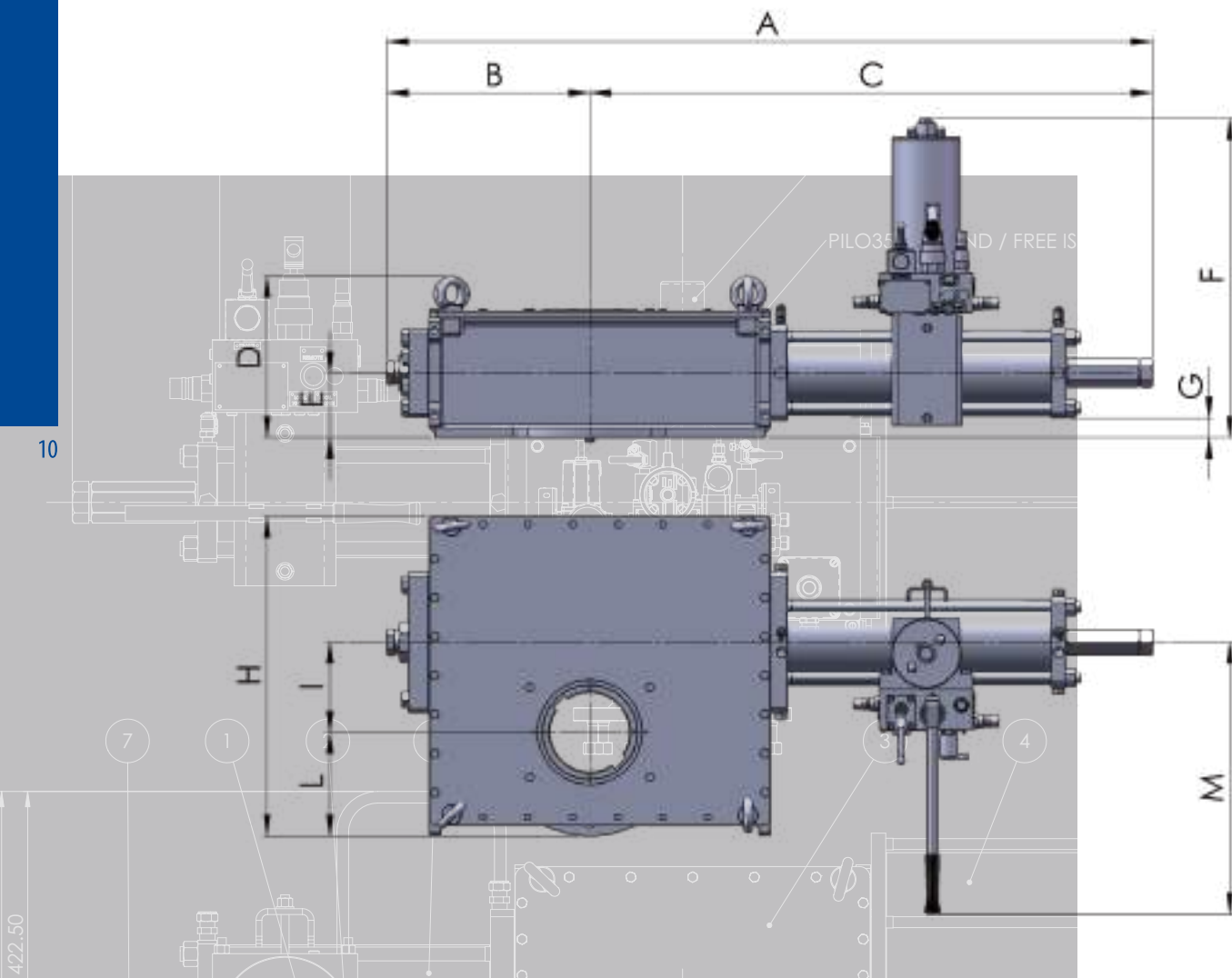
## OVERALL DIMENSIONS

| Model Size     | A    | B   | C    | D   | E   | F   | G   | H    | I   | L   | M   | Weight(Kg) |
|----------------|------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|------------|
| QTH-030S/C-80  | 1523 | 406 | 1117 | 323 | 130 | 195 | 65  | 638  | 180 | 208 | 453 | 298        |
| QTH-030S/C-95  | 1525 | 406 | 1119 | 323 | 130 | 195 | 65  | 638  | 180 | 208 | 453 | 299        |
| QTH-030S/C-105 | 1525 | 406 | 1119 | 323 | 130 | 195 | 65  | 638  | 180 | 208 | 453 | 299        |
| QTH-030S/C-120 | 1528 | 406 | 1122 | 323 | 130 | 206 | 54  | 638  | 180 | 208 | 464 | 320        |
| QTH-030S/C-135 | 1530 | 406 | 1124 | 323 | 130 | 213 | 48  | 638  | 180 | 208 | 471 | 325        |
| QTH-030S/C-150 | 1531 | 406 | 1125 | 323 | 130 | 220 | 40  | 638  | 180 | 208 | 478 | 328        |
| QTH-060S/C-75  | 1800 | 474 | 1326 | 421 | 163 | 228 | 98  | 801  | 205 | 260 | 530 | 520        |
| QTH-060S/C-95  | 1805 | 474 | 1331 | 421 | 163 | 228 | 98  | 801  | 205 | 260 | 530 | 522        |
| QTH-060S/C-105 | 1805 | 474 | 1331 | 421 | 163 | 228 | 98  | 801  | 205 | 260 | 530 | 522        |
| QTH-060S/C-120 | 1810 | 474 | 1336 | 421 | 163 | 239 | 87  | 801  | 205 | 260 | 541 | 525        |
| QTH-060S/C-135 | 1815 | 474 | 1341 | 421 | 163 | 246 | 81  | 801  | 205 | 260 | 548 | 530        |
| QTH-060S/C-150 | 1823 | 474 | 1349 | 421 | 163 | 258 | 68  | 801  | 205 | 260 | 560 | 549        |
| QTH-060S/C-175 | 1833 | 474 | 1359 | 421 | 163 | 276 | 51  | 801  | 205 | 260 | 578 | 555        |
| QTH-120S/C-95  | 1975 | 545 | 1430 | 522 | 205 | 268 | 143 | 905  | 230 | 280 | 573 | 940        |
| QTH-120S/C-120 | 1980 | 545 | 1435 | 522 | 205 | 270 | 140 | 905  | 230 | 280 | 575 | 950        |
| QTH-120S/C-135 | 1990 | 545 | 1445 | 522 | 205 | 288 | 123 | 905  | 230 | 280 | 593 | 960        |
| QTH-120S/C-150 | 1996 | 545 | 1451 | 522 | 205 | 300 | 110 | 905  | 230 | 280 | 605 | 970        |
| QTH-120S/C-175 | 2015 | 545 | 1470 | 522 | 205 | 318 | 93  | 905  | 230 | 280 | 623 | 975        |
| QTH-120S/C-200 | 2085 | 545 | 1540 | 522 | 205 | 325 | 85  | 905  | 230 | 280 | 630 | 980        |
| QTH-120S/C-235 | 2116 | 545 | 1571 | 522 | 205 | 383 | 28  | 905  | 230 | 280 | 688 | 1023       |
| QTH-180S/C-120 | 2280 | 600 | 1680 | 546 | 230 | 345 | 115 | 1040 | 255 | 355 | 725 | 1220       |
| QTH-180S/C-135 | 2285 | 600 | 1685 | 546 | 230 | 350 | 110 | 1040 | 255 | 355 | 730 | 1236       |
| QTH-180S/C-150 | 2292 | 600 | 1692 | 546 | 230 | 355 | 105 | 1040 | 255 | 355 | 735 | 1253       |
| QTH-180S/C-175 | 2295 | 600 | 1695 | 546 | 230 | 360 | 100 | 1040 | 255 | 355 | 740 | 1255       |
| QTH-180S/C-200 | 2295 | 600 | 1695 | 546 | 230 | 360 | 100 | 1040 | 255 | 355 | 740 | 1265       |
| QTH-180S/C-235 | 2298 | 600 | 1698 | 546 | 230 | 363 | 98  | 1040 | 255 | 355 | 743 | 1280       |
| QTH-180S/C-280 | 2305 | 600 | 1705 | 546 | 230 | 370 | 90  | 1040 | 255 | 355 | 750 | 1290       |





# QT DOUBLE ACTING WITH HYDRAULIC MANUAL OVERRIDE (MH) OVERALL DIMENSIONS

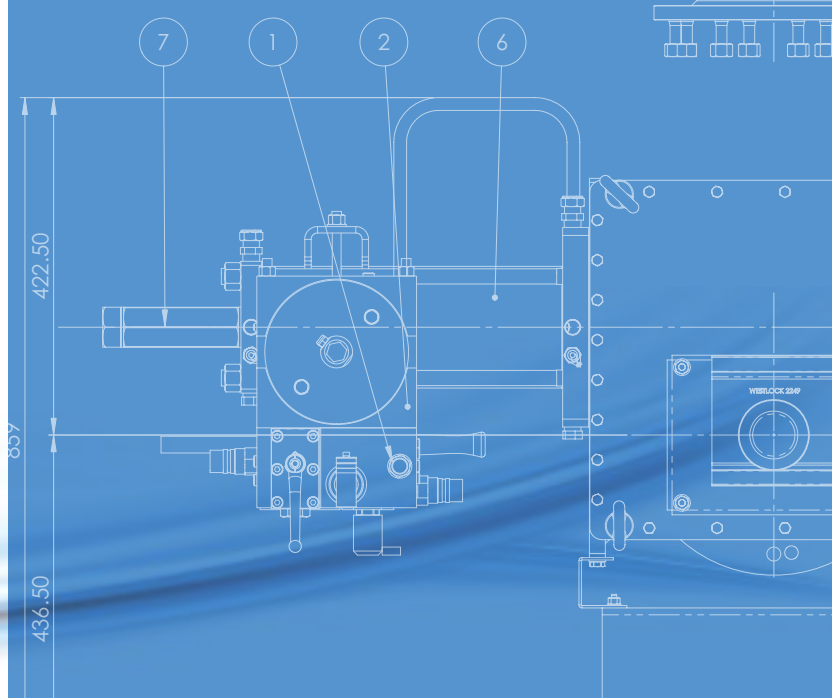


| Model Size        | A    | B   | C    | D   | E   | F   | G  | H   | I   | L   | M   | Weight (Kg) |
|-------------------|------|-----|------|-----|-----|-----|----|-----|-----|-----|-----|-------------|
| QTH-010S/C-40-MH  | 980  | 249 | 731  | 248 | 96  | 571 | 46 | 415 | 105 | 150 | 510 | 105         |
| QTH-010S/C-45-MH  | 980  | 249 | 731  | 248 | 96  | 571 | 46 | 415 | 105 | 150 | 510 | 105         |
| QTH-010S/C-55-MH  | 992  | 249 | 743  | 248 | 96  | 581 | 36 | 415 | 105 | 150 | 520 | 110         |
| QTH-010S/C-65-MH  | 1003 | 249 | 754  | 248 | 96  | 581 | 36 | 415 | 105 | 150 | 520 | 110         |
| QTH-010S/C-75-MH  | 1008 | 249 | 759  | 248 | 96  | 586 | 31 | 415 | 105 | 150 | 525 | 115         |
| QTH-010S/C-95-MH  | 1008 | 249 | 759  | 248 | 96  | 584 | 34 | 415 | 105 | 150 | 523 | 119         |
| QTH-010S/C-120-MH | 1008 | 249 | 759  | 248 | 96  | 597 | 20 | 415 | 105 | 150 | 536 | 125         |
| QTH-016S/C-50-MH  | 1120 | 293 | 827  | 277 | 111 | 596 | 51 | 497 | 135 | 176 | 520 | 173         |
| QTH-016S/C-65-MH  | 1130 | 293 | 837  | 277 | 111 | 599 | 49 | 497 | 135 | 176 | 523 | 173         |
| QTH-016S/C-75-MH  | 1141 | 293 | 848  | 277 | 111 | 601 | 46 | 497 | 135 | 176 | 525 | 180         |
| QTH-016S/C-95-MH  | 1162 | 293 | 869  | 277 | 111 | 599 | 49 | 497 | 135 | 176 | 523 | 185         |
| QTH-016S/C-120-MH | 1162 | 293 | 869  | 277 | 111 | 612 | 35 | 497 | 135 | 176 | 536 | 189         |
| QTH-016S/C-135-MH | 1167 | 293 | 874  | 277 | 111 | 619 | 29 | 497 | 135 | 176 | 543 | 193         |
| QTH-030S/C-65-MH  | 1520 | 406 | 1114 | 323 | 130 | 618 | 68 | 638 | 180 | 208 | 523 | 310         |
| QTH-030S/C-75-MH  | 1520 | 406 | 1114 | 323 | 130 | 620 | 65 | 638 | 180 | 208 | 525 | 315         |

# QT DOUBLE ACTING WITH HYDRAULIC MANUAL OVERRIDE (MH)

## OVERALL DIMENSIONS

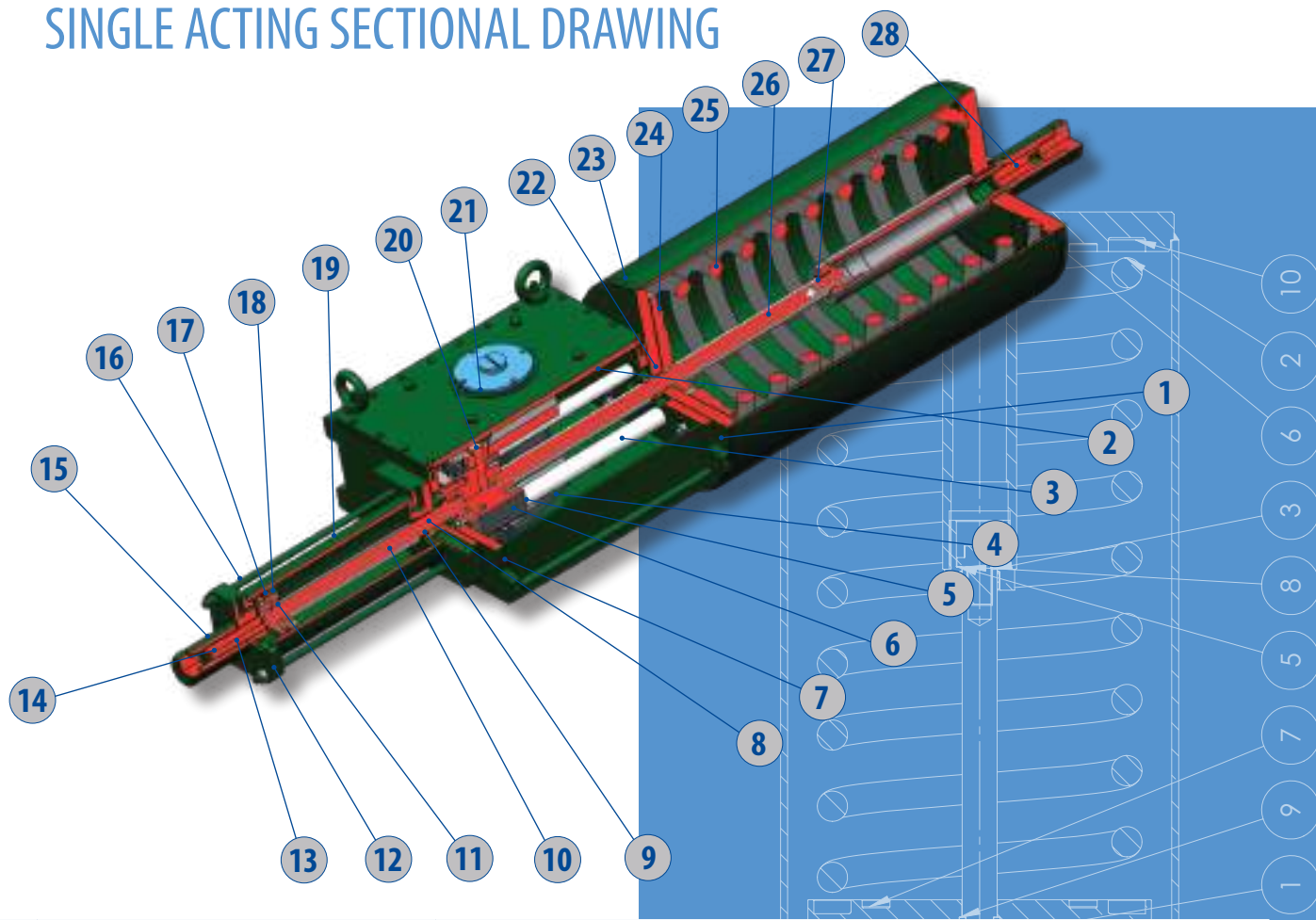
| Model Size        | A    | B   | C    | D   | E   | F   | G   | H    | I   | L   | M   | Weight(Kg) |
|-------------------|------|-----|------|-----|-----|-----|-----|------|-----|-----|-----|------------|
| QTH-030S/C-80-MH  | 1523 | 406 | 1117 | 323 | 130 | 620 | 65  | 638  | 180 | 208 | 525 | 313        |
| QTH-030S/C-95-MH  | 1525 | 406 | 1119 | 323 | 130 | 620 | 65  | 638  | 180 | 208 | 525 | 314        |
| QTH-030S/C-105-MH | 1525 | 406 | 1119 | 323 | 130 | 620 | 65  | 638  | 180 | 208 | 525 | 314        |
| QTH-030S/C-120-MH | 1528 | 406 | 1122 | 323 | 130 | 631 | 54  | 638  | 180 | 208 | 536 | 335        |
| QTH-030S/C-135-MH | 1530 | 406 | 1124 | 323 | 130 | 638 | 48  | 638  | 180 | 208 | 543 | 340        |
| QTH-030S/C-150-MH | 1531 | 406 | 1125 | 323 | 130 | 645 | 40  | 638  | 180 | 208 | 550 | 343        |
| QTH-060S/C-75-MH  | 1800 | 474 | 1326 | 421 | 163 | 653 | 98  | 801  | 205 | 260 | 525 | 535        |
| QTH-060S/C-95-MH  | 1805 | 474 | 1331 | 421 | 163 | 653 | 98  | 801  | 205 | 260 | 525 | 537        |
| QTH-060S/C-105-MH | 1805 | 474 | 1331 | 421 | 163 | 653 | 98  | 801  | 205 | 260 | 525 | 537        |
| QTH-060S/C-120-MH | 1810 | 474 | 1336 | 421 | 163 | 664 | 87  | 801  | 205 | 260 | 536 | 540        |
| QTH-060S/C-135-MH | 1815 | 474 | 1341 | 421 | 163 | 671 | 81  | 801  | 205 | 260 | 543 | 545        |
| QTH-060S/C-150-MH | 1823 | 474 | 1349 | 421 | 163 | 683 | 68  | 801  | 205 | 260 | 555 | 564        |
| QTH-060S/C-175-MH | 1833 | 474 | 1359 | 421 | 163 | 701 | 51  | 801  | 205 | 260 | 573 | 570        |
| QTH-120S/C-95-MH  | 1975 | 545 | 1430 | 522 | 205 | 693 | 143 | 905  | 230 | 280 | 523 | 955        |
| QTH-120S/C-120-MH | 1980 | 545 | 1435 | 522 | 205 | 695 | 140 | 905  | 230 | 280 | 525 | 965        |
| QTH-120S/C-135-MH | 1990 | 545 | 1445 | 522 | 205 | 713 | 123 | 905  | 230 | 280 | 543 | 975        |
| QTH-120S/C-150-MH | 1996 | 545 | 1451 | 522 | 205 | 725 | 110 | 905  | 230 | 280 | 555 | 985        |
| QTH-120S/C-175-MH | 2015 | 545 | 1470 | 522 | 205 | 743 | 93  | 905  | 230 | 280 | 573 | 990        |
| QTH-120S/C-200-MH | 2033 | 545 | 1488 | 522 | 205 | 750 | 85  | 905  | 230 | 280 | 580 | 995        |
| QTH-120S/C-235-MH | 2116 | 545 | 1571 | 522 | 205 | 808 | 28  | 905  | 230 | 280 | 638 | 1038       |
| QTH-180S/C-120-MH | 2280 | 600 | 1680 | 546 | 230 | 770 | 115 | 1040 | 255 | 355 | 575 | 1235       |
| QTH-180S/C-135-MH | 2285 | 600 | 1685 | 546 | 230 | 775 | 110 | 1040 | 255 | 355 | 580 | 1251       |
| QTH-180S/C-150-MH | 2292 | 600 | 1692 | 546 | 230 | 780 | 105 | 1040 | 255 | 355 | 585 | 1268       |
| QTH-180S/C-175-MH | 2295 | 600 | 1695 | 546 | 230 | 785 | 100 | 1040 | 255 | 355 | 590 | 1270       |
| QTH-180S/C-200-MH | 2295 | 600 | 1695 | 546 | 230 | 785 | 100 | 1040 | 255 | 355 | 590 | 1280       |
| QTH-180S/C-235-MH | 2298 | 600 | 1698 | 546 | 230 | 788 | 98  | 1040 | 255 | 355 | 593 | 1295       |
| QTH-180S/C-280-MH | 2305 | 600 | 1705 | 546 | 230 | 795 | 90  | 1040 | 255 | 355 | 600 | 1305       |



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# QT SERIES

## SINGLE ACTING SECTIONAL DRAWING

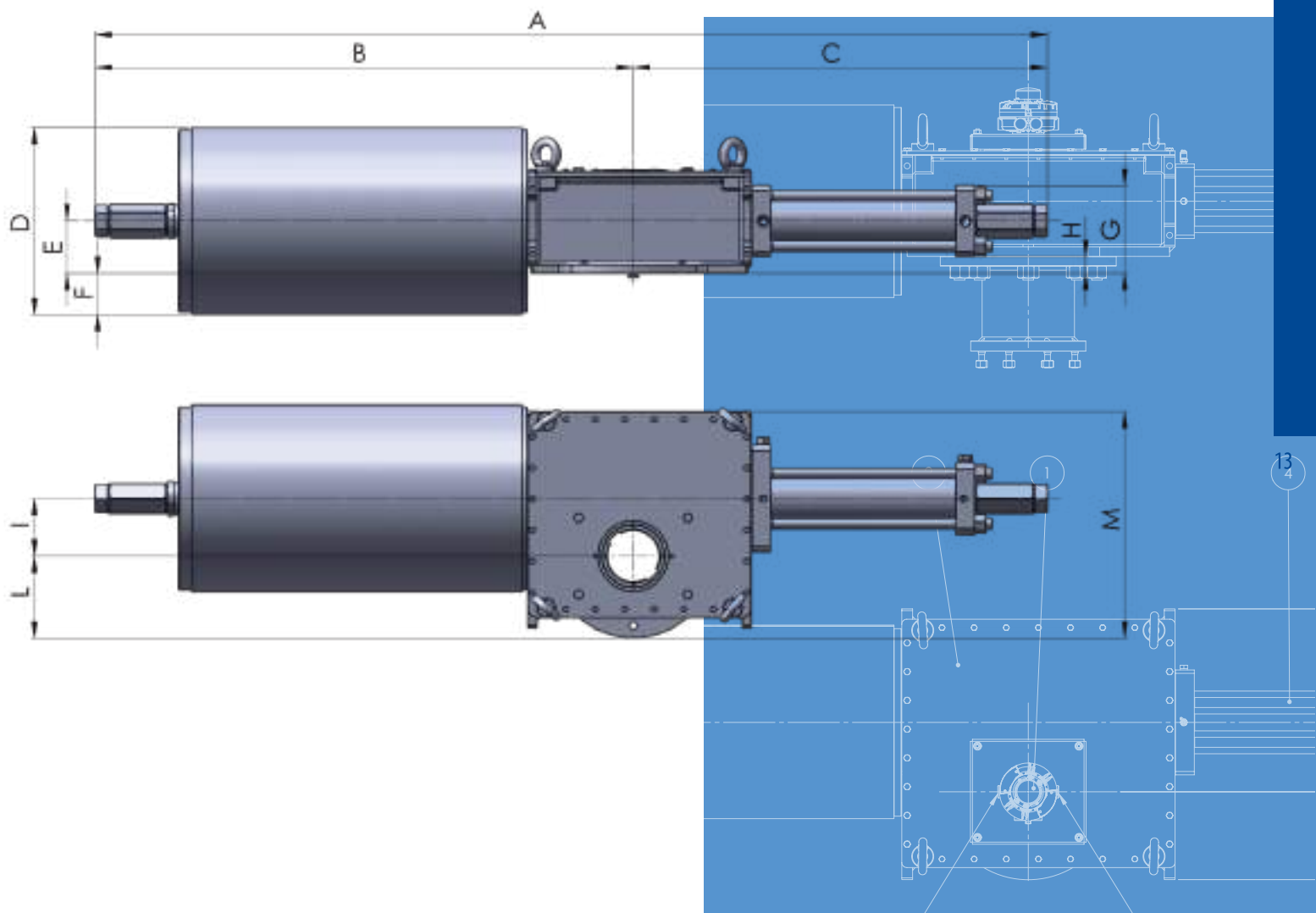


| ITEM | DESCRIPTION                  | EN MATERIAL                        | ASTM MATERIAL                      |
|------|------------------------------|------------------------------------|------------------------------------|
| 1    | Housing                      | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 2    | Cover                        | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 3    | Guide bar                    | 42CrMo4 EN 10083                   | AISI (9840)                        |
| 4    | Scotch yoke                  | S355 J2G3 EN 10025 + E355 EN 10297 | ASTM A570 Gr. 50 + ASTM A500 Gr. C |
| 5    | Guide block bushing          | Carbon steel + Bronze + PTFE       | Carbon steel + Bronze + PTFE       |
| 6    | Guide block                  | S355JR EN 10025                    | ASTM A572 Gr 50                    |
| 7    | Cylinder Head flange         | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 8    | Piston rod bushing           | Carbon steel + Bronze + PTFE       | Carbon steel + Bronze + PTFE       |
| 9    | Piston rod seal              | NBR (FKM – MFQ – CR)               | NBR (FKM – MFQ – CR)               |
| 10   | Piston rod                   | 42CrMo4 EN10083                    | AISI (4140)                        |
| 11   | Piston                       | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 12   | Cylinder End flange          | S355 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 13   | Travel stop screw            | Class 45H ISO 4026                 | Class 45H ISO 4026                 |
| 14   | Plug                         | X5 CrNi 18 10                      | ASTM A276/276MTP304                |
| 15   | Stop screw protection        | X5 CrNi 18 10                      | ASTM A276/276MTP304                |
| 16   | Tie rod                      | ASTM A320L7                        | ASTM A320L7                        |
| 17   | Piston seal                  | NBR (FKM – MFQ – CR)               | NBR (FKM – MFQ – CR)               |
| 18   | Piston sliding guide         | PTFE+Graphite                      | PTFE+Graphite                      |
| 19   | Cylinder tube                | E355K2+N EN10297 – E355+N EN10305  | ASTM A580 Grade C                  |
| 20   | Guide block pin              | 42CrMo4 EN10083                    | AISI (4140)                        |
| 21   | Yoke bushing                 | Carbon steel + Bronze + PTFE       | Carbon steel + Bronze + PTFE       |
| 22   | Container rod bushing        | Carbon steel + Bronze + PTFE       | Carbon steel + Bronze + PTFE       |
| 23   | Spring Cartridge tube        | E355 EN 10297-10305                | ASTM A500 Gr.C + ASTM A106 Gr.B    |
| 24   | Spring cartridge load flange | S335 J2G3 EN 10025                 | ASTM A570 Gr. 50                   |
| 25   | Spring                       | EN 10270-2-FDSiCr                  | ASTM A-401                         |
| 26   | Spring cartridge rod         | 42CrMo4 EN 10083                   | AISI (9840)                        |
| 27   | Spring cartridge rod bushing | Carbon steel + Bronze + PTFE       | Carbon steel + Bronze + PTFE       |
| 28   | Travel stop screw            | Class 45H ISO 4026                 | Class 45H ISO 4026                 |



# OVERALL DIMENSIONS

## QT SPRING TO CLOSE



| Model Size           | A    | B   | C   | D   | E  | F  | G   | H  | I   | L   | M   | Weight(Kg) |
|----------------------|------|-----|-----|-----|----|----|-----|----|-----|-----|-----|------------|
| QTHS-010S/C-40-A1-CL | 1717 | 986 | 731 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 188        |
| QTHS-010S/C-40-A2-CL | 1717 | 986 | 731 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 188        |
| QTHS-010S/C-40-A3-CL | 1717 | 986 | 731 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 188        |
| QTHS-010S/C-40-A4-CL | 1717 | 986 | 731 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 188        |
| QTHS-010S/C-45-A1-CL | 1717 | 986 | 731 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 190        |
| QTHS-010S/C-45-A2-CL | 1717 | 986 | 731 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 190        |
| QTHS-010S/C-45-A3-CL | 1717 | 986 | 731 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 190        |
| QTHS-010S/C-45-A4-CL | 1717 | 986 | 731 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 190        |
| QTHS-010S/C-55-A1-CL | 1729 | 986 | 743 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 197        |
| QTHS-010S/C-55-A2-CL | 1729 | 986 | 743 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 197        |
| QTHS-010S/C-55-A3-CL | 1729 | 986 | 743 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 197        |
| QTHS-010S/C-55-A4-CL | 1729 | 986 | 743 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 197        |
| QTHS-010S/C-65-A1-CL | 1740 | 986 | 754 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 202        |
| QTHS-010S/C-65-A2-CL | 1740 | 986 | 754 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 202        |
| QTHS-010S/C-65-A3-CL | 1740 | 986 | 754 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 202        |
| QTHS-010S/C-65-A4-CL | 1740 | 986 | 754 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 202        |
| QTHS-010S/C-75-A1-CL | 1745 | 986 | 759 | 342 | 96 | 75 | 161 | 31 | 105 | 150 | 415 | 206        |
| QTHS-010S/C-75-A2-CL | 1745 | 986 | 759 | 342 | 96 | 75 | 161 | 31 | 105 | 150 | 415 | 206        |
| QTHS-010S/C-75-A3-CL | 1745 | 986 | 759 | 342 | 96 | 75 | 161 | 31 | 105 | 150 | 415 | 208        |
| QTHS-010S/C-75-A4-CL | 1745 | 986 | 759 | 342 | 96 | 75 | 161 | 31 | 105 | 150 | 415 | 208        |

# OVERALL DIMENSIONS

## QT SPRING TO CLOSE

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| Model Size            | A    | B    | C    | D   | E   | F   | G   | H  | I   | L   | M   | Weight(Kg) |
|-----------------------|------|------|------|-----|-----|-----|-----|----|-----|-----|-----|------------|
| QTHS-010S/C-95-A1-CL  | 1745 | 986  | 759  | 342 | 96  | 75  | 159 | 34 | 105 | 150 | 415 | 215        |
| QTHS-010S/C-95-A2-CL  | 1745 | 986  | 759  | 342 | 96  | 75  | 159 | 34 | 105 | 150 | 415 | 215        |
| QTHS-010S/C-95-A3-CL  | 1745 | 986  | 759  | 342 | 96  | 75  | 159 | 34 | 105 | 150 | 415 | 215        |
| QTHS-010S/C-95-A4-CL  | 1745 | 986  | 759  | 342 | 96  | 75  | 159 | 34 | 105 | 150 | 415 | 215        |
| QTHS-010S/C-120-A1-CL | 1745 | 986  | 759  | 342 | 96  | 75  | 172 | 20 | 105 | 150 | 415 | 219        |
| QTHS-010S/C-120-A2-CL | 1745 | 986  | 759  | 342 | 96  | 75  | 172 | 20 | 105 | 150 | 415 | 232        |
| QTHS-010S/C-120-A3-CL | 1745 | 986  | 759  | 342 | 96  | 75  | 172 | 20 | 105 | 150 | 415 | 235        |
| QTHS-010S/C-120-A4-CL | 1745 | 986  | 759  | 342 | 96  | 75  | 172 | 20 | 105 | 150 | 415 | 238        |
| QTHS-016S/C-50-B1-CL  | 2003 | 1176 | 827  | 413 | 111 | 96  | 171 | 51 | 135 | 176 | 497 | 305        |
| QTHS-016S/C-50-B2-CL  | 2003 | 1176 | 827  | 413 | 111 | 96  | 171 | 51 | 135 | 176 | 497 | 305        |
| QTHS-016S/C-50-B3-CL  | 2003 | 1176 | 827  | 413 | 111 | 96  | 171 | 51 | 135 | 176 | 497 | 305        |
| QTHS-016S/C-65-B1-CL  | 2013 | 1176 | 837  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 315        |
| QTHS-016S/C-65-B2-CL  | 2013 | 1176 | 837  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 315        |
| QTHS-016S/C-65-B3-CL  | 2013 | 1176 | 837  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 315        |
| QTHS-016S/C-75-B1-CL  | 2043 | 1176 | 867  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 329        |
| QTHS-016S/C-75-B2-CL  | 2043 | 1176 | 867  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 329        |
| QTHS-016S/C-75-B3-CL  | 2043 | 1176 | 867  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 329        |
| QTHS-016S/C-95-B1-CL  | 2045 | 1176 | 869  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 332        |
| QTHS-016S/C-95-B2-CL  | 2045 | 1176 | 869  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 332        |
| QTHS-016S/C-95-B3-CL  | 2045 | 1176 | 869  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 332        |
| QTHS-016S/C-120-B1-CL | 2045 | 1176 | 869  | 413 | 111 | 96  | 187 | 35 | 135 | 176 | 497 | 338        |
| QTHS-016S/C-120-B2-CL | 2045 | 1176 | 869  | 413 | 111 | 96  | 187 | 35 | 135 | 176 | 497 | 338        |
| QTHS-016S/C-120-B3-CL | 2045 | 1176 | 869  | 413 | 111 | 96  | 187 | 35 | 135 | 176 | 497 | 338        |
| QTHS-016S/C-135-B1-CL | 2050 | 1176 | 874  | 413 | 111 | 96  | 194 | 29 | 135 | 176 | 497 | 345        |
| QTHS-016S/C-135-B2-CL | 2050 | 1176 | 874  | 413 | 111 | 96  | 194 | 29 | 135 | 176 | 497 | 345        |
| QTHS-016S/C-135-B3-CL | 2050 | 1176 | 874  | 413 | 111 | 96  | 194 | 29 | 135 | 176 | 497 | 345        |
| QTHS-030S/C-65-C0-CL  | 2682 | 1568 | 1114 | 506 | 130 | 123 | 193 | 68 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-65-C1-CL  | 2682 | 1568 | 1114 | 506 | 130 | 123 | 193 | 68 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-65-C2-CL  | 2682 | 1568 | 1114 | 506 | 130 | 123 | 193 | 68 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-65-C3-CL  | 2682 | 1568 | 1114 | 506 | 130 | 123 | 193 | 68 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-75-C0-CL  | 2682 | 1568 | 1114 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-75-C1-CL  | 2682 | 1568 | 1114 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-75-C2-CL  | 2682 | 1568 | 1114 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-75-C3-CL  | 2682 | 1568 | 1114 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-80-C0-CL  | 2685 | 1568 | 1117 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 655        |
| QTHS-030S/C-80-C1-CL  | 2685 | 1568 | 1117 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 655        |
| QTHS-030S/C-80-C2-CL  | 2685 | 1568 | 1117 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 655        |
| QTHS-030S/C-80-C3-CL  | 2685 | 1568 | 1117 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 655        |
| QTHS-030S/C-95-C0-CL  | 2687 | 1568 | 1119 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-95-C1-CL  | 2687 | 1568 | 1119 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-95-C2-CL  | 2687 | 1568 | 1119 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-95-C3-CL  | 2687 | 1568 | 1119 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-105-C0-CL | 2687 | 1568 | 1119 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-105-C1-CL | 2687 | 1568 | 1119 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 680        |
| QTHS-030S/C-105-C2-CL | 2687 | 1568 | 1119 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 680        |
| QTHS-030S/C-105-C3-CL | 2687 | 1568 | 1119 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 680        |
| QTHS-030S/C-120-C0-CL | 2690 | 1568 | 1122 | 506 | 130 | 123 | 206 | 54 | 180 | 208 | 638 | 680        |
| QTHS-030S/C-120-C1-CL | 2690 | 1568 | 1122 | 506 | 130 | 123 | 206 | 54 | 180 | 208 | 638 | 695        |
| QTHS-030S/C-120-C2-CL | 2690 | 1568 | 1122 | 506 | 130 | 123 | 206 | 54 | 180 | 208 | 638 | 695        |
| QTHS-030S/C-120-C3-CL | 2690 | 1568 | 1122 | 506 | 130 | 123 | 206 | 54 | 180 | 208 | 638 | 695        |

# OVERALL DIMENSIONS

## QT SPRING TO CLOSE

| Model Size            | A    | B    | C    | D   | E   | F   | G   | H   | I   | L   | M   | Weight(Kg) |
|-----------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| QTHS-030S/C-135-C0-CL | 2692 | 1568 | 1124 | 506 | 130 | 123 | 213 | 48  | 180 | 208 | 638 | 695        |
| QTHS-030S/C-135-C1-CL | 2692 | 1568 | 1124 | 506 | 130 | 123 | 213 | 48  | 180 | 208 | 638 | 704        |
| QTHS-030S/C-135-C2-CL | 2692 | 1568 | 1124 | 506 | 130 | 123 | 213 | 48  | 180 | 208 | 638 | 704        |
| QTHS-030S/C-135-C3-CL | 2692 | 1568 | 1124 | 506 | 130 | 123 | 213 | 48  | 180 | 208 | 638 | 704        |
| QTHS-030S/C-150-C0-CL | 2693 | 1568 | 1125 | 506 | 130 | 123 | 220 | 40  | 180 | 208 | 638 | 705        |
| QTHS-030S/C-150-C1-CL | 2693 | 1568 | 1125 | 506 | 130 | 123 | 220 | 40  | 180 | 208 | 638 | 705        |
| QTHS-030S/C-150-C2-CL | 2693 | 1568 | 1125 | 506 | 130 | 123 | 220 | 40  | 180 | 208 | 638 | 705        |
| QTHS-030S/C-150-C3-CL | 2693 | 1568 | 1125 | 506 | 130 | 123 | 220 | 40  | 180 | 208 | 638 | 705        |
| QTHS-060S/C-75-D1-CL  | 3291 | 1965 | 1326 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1390       |
| QTHS-060S/C-75-D2-CL  | 3291 | 1965 | 1326 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1390       |
| QTHS-060S/C-75-D3-CL  | 3291 | 1965 | 1326 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1390       |
| QTHS-060S/C-95-D1-CL  | 3296 | 1965 | 1331 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-95-D2-CL  | 3296 | 1965 | 1331 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-95-D3-CL  | 3296 | 1965 | 1331 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-105-D1-CL | 3296 | 1965 | 1331 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-105-D2-CL | 3296 | 1965 | 1331 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-105-D3-CL | 3296 | 1965 | 1331 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-120-D1-CL | 3301 | 1965 | 1336 | 569 | 163 | 122 | 239 | 87  | 205 | 260 | 801 | 1399       |
| QTHS-060S/C-120-D2-CL | 3301 | 1965 | 1336 | 569 | 163 | 122 | 239 | 87  | 205 | 260 | 801 | 1399       |
| QTHS-060S/C-120-D3-CL | 3301 | 1965 | 1336 | 569 | 163 | 122 | 239 | 87  | 205 | 260 | 801 | 1399       |
| QTHS-060S/C-135-D1-CL | 3306 | 1965 | 1341 | 569 | 163 | 122 | 246 | 81  | 205 | 260 | 801 | 1405       |
| QTHS-060S/C-135-D2-CL | 3306 | 1965 | 1341 | 569 | 163 | 122 | 246 | 81  | 205 | 260 | 801 | 1405       |
| QTHS-060S/C-135-D3-CL | 3306 | 1965 | 1341 | 569 | 163 | 122 | 246 | 81  | 205 | 260 | 801 | 1405       |
| QTHS-060S/C-150-D1-CL | 3314 | 1965 | 1349 | 569 | 163 | 122 | 258 | 68  | 205 | 260 | 801 | 1413       |
| QTHS-060S/C-150-D2-CL | 3314 | 1965 | 1349 | 569 | 163 | 122 | 258 | 68  | 205 | 260 | 801 | 1413       |
| QTHS-060S/C-150-D3-CL | 3314 | 1965 | 1349 | 569 | 163 | 122 | 258 | 68  | 205 | 260 | 801 | 1413       |
| QTHS-060S/C-175-D1-CL | 3324 | 1965 | 1359 | 569 | 163 | 122 | 276 | 51  | 205 | 260 | 801 | 1422       |
| QTHS-060S/C-175-D2-CL | 3324 | 1965 | 1359 | 569 | 163 | 122 | 276 | 51  | 205 | 260 | 801 | 1422       |
| QTHS-060S/C-175-D3-CL | 3324 | 1965 | 1359 | 569 | 163 | 122 | 276 | 51  | 205 | 260 | 801 | 1422       |
| QTHS-120S/C-95-E1-CL  | 3730 | 2300 | 1430 | 654 | 205 | 122 | 268 | 143 | 230 | 280 | 905 | 1820       |
| QTHS-120S/C-95-E2-CL  | 3730 | 2300 | 1430 | 654 | 205 | 122 | 268 | 143 | 230 | 280 | 905 | 1820       |
| QTHS-120S/C-95-E3-CL  | 3730 | 2300 | 1430 | 654 | 205 | 122 | 268 | 143 | 230 | 280 | 905 | 1820       |
| QTHS-120S/C-95-E4-CL  | 3730 | 2300 | 1430 | 654 | 205 | 122 | 268 | 143 | 230 | 280 | 905 | 1820       |
| QTHS-120S/C-120-E1-CL | 3735 | 2300 | 1435 | 654 | 205 | 122 | 270 | 140 | 230 | 280 | 905 | 1850       |
| QTHS-120S/C-120-E2-CL | 3735 | 2300 | 1435 | 654 | 205 | 122 | 270 | 140 | 230 | 280 | 905 | 1850       |
| QTHS-120S/C-120-E3-CL | 3735 | 2300 | 1435 | 654 | 205 | 122 | 270 | 140 | 230 | 280 | 905 | 1850       |
| QTHS-120S/C-120-E4-CL | 3735 | 2300 | 1435 | 654 | 205 | 122 | 270 | 140 | 230 | 280 | 905 | 1850       |
| QTHS-120S/C-135-E1-CL | 3745 | 2300 | 1445 | 654 | 205 | 122 | 288 | 123 | 230 | 280 | 905 | 1862       |
| QTHS-120S/C-135-E2-CL | 3745 | 2300 | 1445 | 654 | 205 | 122 | 288 | 123 | 230 | 280 | 905 | 1862       |
| QTHS-120S/C-135-E3-CL | 3745 | 2300 | 1445 | 654 | 205 | 122 | 288 | 123 | 230 | 280 | 905 | 1862       |
| QTHS-120S/C-135-E4-CL | 3745 | 2300 | 1445 | 654 | 205 | 122 | 288 | 123 | 230 | 280 | 905 | 1862       |
| QTHS-120S/C-150-E1-CL | 3751 | 2300 | 1451 | 654 | 205 | 122 | 300 | 110 | 230 | 280 | 905 | 1890       |
| QTHS-120S/C-150-E2-CL | 3751 | 2300 | 1451 | 654 | 205 | 122 | 300 | 110 | 230 | 280 | 905 | 1890       |
| QTHS-120S/C-150-E3-CL | 3751 | 2300 | 1451 | 654 | 205 | 122 | 300 | 110 | 230 | 280 | 905 | 1890       |
| QTHS-120S/C-150-E4-CL | 3751 | 2300 | 1451 | 654 | 205 | 122 | 300 | 110 | 230 | 280 | 905 | 1890       |
| QTHS-120S/C-175-E1-CL | 3770 | 2300 | 1470 | 654 | 205 | 122 | 318 | 93  | 230 | 280 | 905 | 1903       |
| QTHS-120S/C-175-E2-CL | 3770 | 2300 | 1470 | 654 | 205 | 122 | 318 | 93  | 230 | 280 | 905 | 1903       |
| QTHS-120S/C-175-E3-CL | 3770 | 2300 | 1470 | 654 | 205 | 122 | 318 | 93  | 230 | 280 | 905 | 1903       |
| QTHS-120S/C-175-E4-CL | 3770 | 2300 | 1470 | 654 | 205 | 122 | 318 | 93  | 230 | 280 | 905 | 1903       |
| QTHS-120S/C-200-E1-CL | 3840 | 2300 | 1540 | 654 | 205 | 122 | 325 | 85  | 230 | 280 | 905 | 1916       |

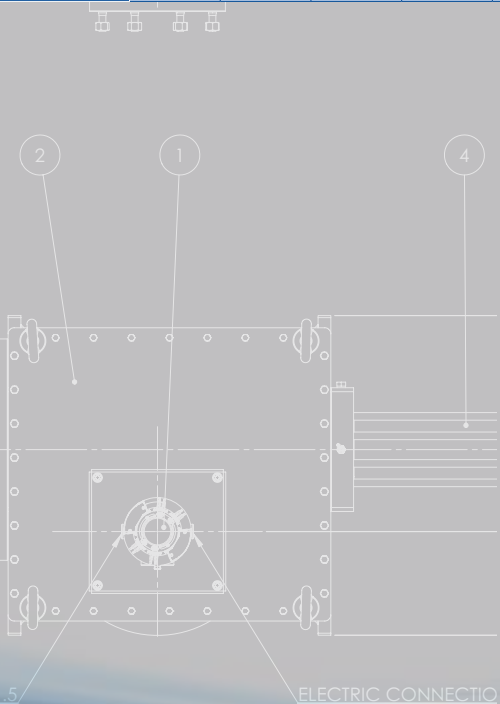


# OVERALL DIMENSIONS

## QT SPRING TO CLOSE

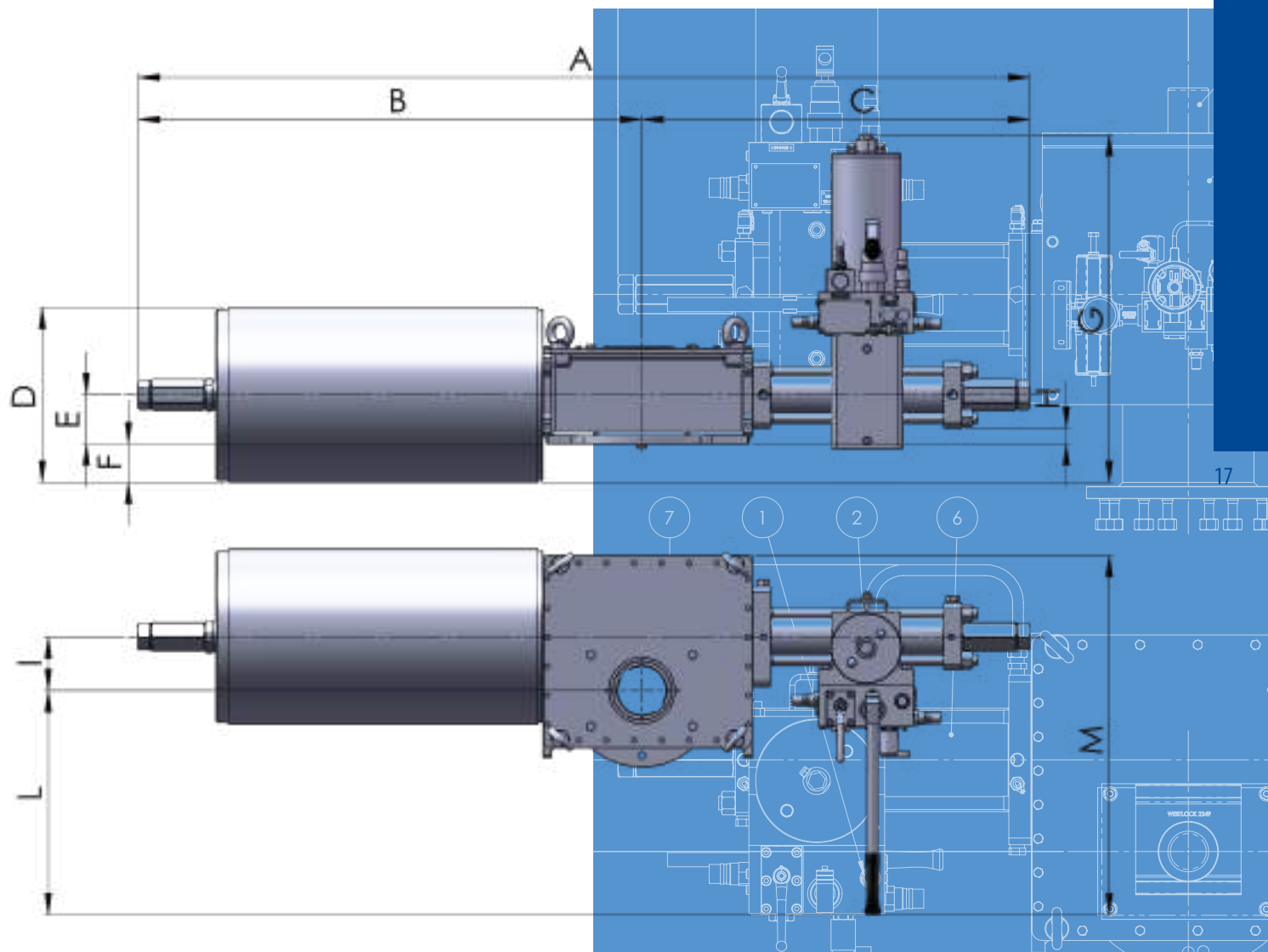
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| Model Size            | A    | B    | C    | D   | E   | F   | G   | H   | I   | L   | M    | Weight(Kg) |
|-----------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------------|
| QTHS-120S/C-200-E2-CL | 3840 | 2300 | 1540 | 654 | 205 | 122 | 325 | 85  | 230 | 280 | 905  | 1916       |
| QTHS-120S/C-200-E3-CL | 3840 | 2300 | 1540 | 654 | 205 | 122 | 325 | 85  | 230 | 280 | 905  | 1916       |
| QTHS-120S/C-200-E4-CL | 3840 | 2300 | 1540 | 654 | 205 | 122 | 325 | 85  | 230 | 280 | 905  | 1916       |
| QTHS-120S/C-235-E1-CL | 3871 | 2300 | 1571 | 654 | 205 | 122 | 383 | 28  | 230 | 280 | 905  | 1940       |
| QTHS-120S/C-235-E2-CL | 3871 | 2300 | 1571 | 654 | 205 | 122 | 383 | 28  | 230 | 280 | 905  | 1940       |
| QTHS-120S/C-235-E3-CL | 3871 | 2300 | 1571 | 654 | 205 | 122 | 383 | 28  | 230 | 280 | 905  | 1940       |
| QTHS-120S/C-235-E4-CL | 3871 | 2300 | 1571 | 654 | 205 | 122 | 383 | 28  | 230 | 280 | 905  | 1940       |
| QTHS-180S/C-120-F1-CL | 4268 | 2588 | 1680 | 745 | 230 | 143 | 345 | 115 | 255 | 355 | 1040 | 2340       |
| QTHS-180S/C-120-F2-CL | 4268 | 2588 | 1680 | 745 | 230 | 143 | 345 | 115 | 255 | 355 | 1040 | 2340       |
| QTHS-180S/C-120-F3-CL | 4268 | 2588 | 1680 | 745 | 230 | 143 | 345 | 115 | 255 | 355 | 1040 | 2340       |
| QTHS-180S/C-135-F1-CL | 4273 | 2588 | 1685 | 745 | 230 | 143 | 350 | 110 | 255 | 355 | 1040 | 2387       |
| QTHS-180S/C-135-F2-CL | 4273 | 2588 | 1685 | 745 | 230 | 143 | 350 | 110 | 255 | 355 | 1040 | 2387       |
| QTHS-180S/C-135-F3-CL | 4273 | 2588 | 1685 | 745 | 230 | 143 | 350 | 110 | 255 | 355 | 1040 | 2387       |
| QTHS-180S/C-150-F1-CL | 4280 | 2588 | 1692 | 745 | 230 | 143 | 355 | 105 | 255 | 355 | 1040 | 2415       |
| QTHS-180S/C-150-F2-CL | 4280 | 2588 | 1692 | 745 | 230 | 143 | 355 | 105 | 255 | 355 | 1040 | 2415       |
| QTHS-180S/C-150-F3-CL | 4280 | 2588 | 1692 | 745 | 230 | 143 | 355 | 105 | 255 | 355 | 1040 | 2415       |
| QTHS-180S/C-175-F1-CL | 4283 | 2588 | 1695 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2429       |
| QTHS-180S/C-175-F2-CL | 4283 | 2588 | 1695 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2429       |
| QTHS-180S/C-175-F3-CL | 4283 | 2588 | 1695 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2429       |
| QTHS-180S/C-200-F1-CL | 4283 | 2588 | 1695 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2445       |
| QTHS-180S/C-200-F2-CL | 4283 | 2588 | 1695 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2445       |
| QTHS-180S/C-200-F3-CL | 4283 | 2588 | 1695 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2445       |
| QTHS-180S/C-235-F1-CL | 4286 | 2588 | 1698 | 745 | 230 | 143 | 363 | 98  | 255 | 355 | 1040 | 2460       |
| QTHS-180S/C-235-F2-CL | 4286 | 2588 | 1698 | 745 | 230 | 143 | 363 | 98  | 255 | 355 | 1040 | 2460       |
| QTHS-180S/C-235-F3-CL | 4286 | 2588 | 1698 | 745 | 230 | 143 | 363 | 98  | 255 | 355 | 1040 | 2460       |
| QTHS-180S/C-280-F1-CL | 4293 | 2588 | 1705 | 745 | 230 | 143 | 370 | 90  | 255 | 355 | 1040 | 2490       |
| QTHS-180S/C-280-F2-CL | 4293 | 2588 | 1705 | 745 | 230 | 143 | 370 | 90  | 255 | 355 | 1040 | 2490       |
| QTHS-180S/C-280-F3-CL | 4293 | 2588 | 1705 | 745 | 230 | 143 | 370 | 90  | 255 | 355 | 1040 | 2490       |



# OVERALL DIMENSIONS

## QT SPRING TO CLOSE WITH HYDRAULIC MANUAL OVERRIDE-MH



| Model Size               | A    | B   | C   | D   | E  | F  | G   | H  | I   | L   | M   | Weight(Kg) |
|--------------------------|------|-----|-----|-----|----|----|-----|----|-----|-----|-----|------------|
| QTHS-010 S/C-40-A1-CL-MH | 1717 | 986 | 731 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 218        |
| QTHS-010 S/C-40-A2-CL-MH | 1717 | 986 | 731 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 218        |
| QTHS-010 S/C-40-A3-CL-MH | 1717 | 986 | 731 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 218        |
| QTHS-010 S/C-40-A4-CL-MH | 1717 | 986 | 731 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 218        |
| QTHS-010 S/C-45-A1-CL-MH | 1717 | 986 | 731 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 220        |
| QTHS-010 S/C-45-A2-CL-MH | 1717 | 986 | 731 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 220        |
| QTHS-010 S/C-45-A3-CL-MH | 1717 | 986 | 731 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 220        |
| QTHS-010 S/C-45-A4-CL-MH | 1717 | 986 | 731 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 220        |
| QTHS-010 S/C-55-A1-CL-MH | 1729 | 986 | 743 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 227        |
| QTHS-010 S/C-55-A2-CL-MH | 1729 | 986 | 743 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 227        |
| QTHS-010 S/C-55-A3-CL-MH | 1729 | 986 | 743 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 227        |
| QTHS-010 S/C-55-A4-CL-MH | 1729 | 986 | 743 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 227        |
| QTHS-010 S/C-65-A1-CL-MH | 1740 | 986 | 754 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 232        |
| QTHS-010 S/C-65-A2-CL-MH | 1740 | 986 | 754 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 232        |
| QTHS-010 S/C-65-A3-CL-MH | 1740 | 986 | 754 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 232        |
| QTHS-010 S/C-65-A4-CL-MH | 1740 | 986 | 754 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 232        |
| QTHS-010 S/C-75-A1-CL-MH | 1745 | 986 | 759 | 342 | 96 | 75 | 686 | 31 | 105 | 525 | 790 | 236        |
| QTHS-010 S/C-75-A2-CL-MH | 1745 | 986 | 759 | 342 | 96 | 75 | 686 | 31 | 105 | 525 | 790 | 236        |
| QTHS-010 S/C-75-A3-CL-MH | 1745 | 986 | 759 | 342 | 96 | 75 | 686 | 31 | 105 | 525 | 790 | 238        |
| QTHS-010 S/C-75-A4-CL-MH | 1745 | 986 | 759 | 342 | 96 | 75 | 686 | 31 | 105 | 525 | 790 | 238        |

OVERALL DIMENSIONS

QT SPRING TO CLOSE WITH HYDRAULIC MANUAL OVERRIDE-MH

| Model Size                | A    | B    | C    | D   | E   | F    | G     | H    | I   | L   | M   | Weight(Kg) |
|---------------------------|------|------|------|-----|-----|------|-------|------|-----|-----|-----|------------|
| QTHS-010 S/C-95-A1-CL-MH  | 1745 | 986  | 759  | 342 | 96  | 75   | 683,5 | 33,5 | 105 | 520 | 785 | 245        |
| QTHS-010 S/C-95-A2-CL-MH  | 1745 | 986  | 759  | 342 | 96  | 75   | 683,5 | 33,5 | 105 | 520 | 785 | 245        |
| QTHS-010 S/C-95-A3-CL-MH  | 1745 | 986  | 759  | 342 | 96  | 75   | 683,5 | 33,5 | 105 | 520 | 785 | 245        |
| QTHS-010 S/C-95-A4-CL-MH  | 1745 | 986  | 759  | 342 | 96  | 75   | 683,5 | 33,5 | 105 | 520 | 785 | 245        |
| QTHS-010 S/C-120-A1-CL-MH | 1745 | 986  | 759  | 342 | 96  | 75   | 697   | 20   | 105 | 547 | 812 | 249        |
| QTHS-010 S/C-120-A2-CL-MH | 1745 | 986  | 759  | 342 | 96  | 75   | 697   | 20   | 105 | 547 | 812 | 262        |
| QTHS-010 S/C-120-A3-CL-MH | 1745 | 986  | 759  | 342 | 96  | 75   | 697   | 20   | 105 | 547 | 812 | 265        |
| QTHS-010 S/C-120-A4-CL-MH | 1745 | 986  | 759  | 342 | 96  | 75   | 697   | 20   | 105 | 547 | 812 | 268        |
| QTHS-016 S/C-50-B1-CL-MH  | 2003 | 1176 | 827  | 413 | 111 | 95,5 | 716,5 | 51   | 135 | 485 | 806 | 335        |
| QTHS-016 S/C-50-B2-CL-MH  | 2003 | 1176 | 827  | 413 | 111 | 95,5 | 716,5 | 51   | 135 | 485 | 806 | 335        |
| QTHS-016 S/C-50-B3-CL-MH  | 2003 | 1176 | 827  | 413 | 111 | 95,5 | 716,5 | 51   | 135 | 485 | 806 | 335        |
| QTHS016 S/C-65-B1-CL-MH   | 2013 | 1176 | 837  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 345        |
| QTHS016 S/C-65-B2-CL-MH   | 2013 | 1176 | 837  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 345        |
| QTHS016 S/C-65-B3-CL-MH   | 2013 | 1176 | 837  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 345        |
| QTHS016 S/C-75-B1-CL-MH   | 2043 | 1176 | 867  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 359        |
| QTHS016 S/C-75-B2-CL-MH   | 2043 | 1176 | 867  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 359        |
| QTHS016 S/C-75-B3-CL-MH   | 2043 | 1176 | 867  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 359        |
| QTHS016 S/C-90-B1-CL-MH   | 2045 | 1176 | 869  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 362        |
| QTHS016 S/C-90-B2-CL-MH   | 2045 | 1176 | 869  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 362        |
| QTHS016 S/C-90-B3-CL-MH   | 2045 | 1176 | 869  | 413 | 111 | 95,5 | 719   | 48,5 | 135 | 490 | 811 | 362        |
| QTHS016 S/C-120-B1-CL-MH  | 2045 | 1176 | 869  | 413 | 111 | 95,5 | 732,5 | 35   | 135 | 517 | 838 | 368        |
| QTHS016 S/C-120-B2-CL-MH  | 2045 | 1176 | 869  | 413 | 111 | 95,5 | 732,5 | 35   | 135 | 517 | 838 | 368        |
| QTHS016 S/C-120-B3-CL-MH  | 2045 | 1176 | 869  | 413 | 111 | 95,5 | 732,5 | 35   | 135 | 517 | 838 | 368        |
| QTHS016 S/C-135-B1-CL-MH  | 2050 | 1176 | 874  | 413 | 111 | 95,5 | 739   | 28,5 | 135 | 530 | 851 | 375        |
| QTHS016 S/C-135-B2-CL-MH  | 2050 | 1176 | 874  | 413 | 111 | 95,5 | 739   | 28,5 | 135 | 530 | 851 | 375        |
| QTHS016 S/C-135-B3-CL-MH  | 2050 | 1176 | 874  | 413 | 111 | 95,5 | 739   | 28,5 | 135 | 530 | 851 | 375        |
| QTHS-030 S/C-65-C0-CL-MH  | 2682 | 1568 | 1114 | 506 | 130 | 123  | 765,5 | 67,5 | 180 | 445 | 875 | 670        |
| QTHS-030 S/C-65-C1-CL-MH  | 2682 | 1568 | 1114 | 506 | 130 | 123  | 765,5 | 67,5 | 180 | 445 | 875 | 670        |
| QTHS-030 S/C-65-C2-CL-MH  | 2682 | 1568 | 1114 | 506 | 130 | 123  | 765,5 | 67,5 | 180 | 445 | 875 | 670        |
| QTHS-030 S/C-65-C3-CL-MH  | 2682 | 1568 | 1114 | 506 | 130 | 123  | 765,5 | 67,5 | 180 | 445 | 875 | 670        |
| QTHS-030 S/C-75-C0-CL-MH  | 2682 | 1568 | 1114 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 670        |
| QTHS-030 S/C-75-C1-CL-MH  | 2682 | 1568 | 1114 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 670        |
| QTHS-030 S/C-75-C2-CL-MH  | 2682 | 1568 | 1114 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 670        |
| QTHS-030 S/C-75-C3-CL-MH  | 2682 | 1568 | 1114 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 670        |
| QTHS-030 S/C-80-C0-CL-MH  | 2685 | 1568 | 1117 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 685        |
| QTHS-030 S/C-80-C1-CL-MH  | 2685 | 1568 | 1117 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 685        |
| QTHS-030 S/C-80-C2-CL-MH  | 2685 | 1568 | 1117 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 685        |
| QTHS-030 S/C-80-C3-CL-MH  | 2685 | 1568 | 1117 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 685        |
| QTHS-030 S/C-95-C0-CL-MH  | 2687 | 1568 | 1119 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 700        |
| QTHS-030 S/C-95-C1-CL-MH  | 2687 | 1568 | 1119 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 700        |
| QTHS-030 S/C-95-C2-CL-MH  | 2687 | 1568 | 1119 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 700        |
| QTHS-030 S/C-95-C3-CL-MH  | 2687 | 1568 | 1119 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 700        |
| QTHS-030 S/C-105-C0-CL-MH | 2687 | 1568 | 1119 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 700        |
| QTHS-030 S/C-105-C1-CL-MH | 2687 | 1568 | 1119 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 710        |
| QTHS-030 S/C-105-C2-CL-MH | 2687 | 1568 | 1119 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 710        |
| QTHS-030 S/C-105-C3-CL-MH | 2687 | 1568 | 1119 | 506 | 130 | 123  | 768   | 65   | 180 | 450 | 880 | 710        |
| QTHS-030 S/C-120-C0-CL-MH | 2690 | 1568 | 1122 | 506 | 130 | 123  | 779   | 54   | 180 | 472 | 902 | 710        |
| QTHS-030 S/C-120-C1-CL-MH | 2690 | 1568 | 1122 | 506 | 130 | 123  | 779   | 54   | 180 | 472 | 902 | 725        |
| QTHS-030 S/C-120-C2-CL-MH | 2690 | 1568 | 1122 | 506 | 130 | 123  | 779   | 54   | 180 | 472 | 902 | 725        |
| QTHS-030 S/C-120-C3-CL-MH | 2690 | 1568 | 1122 | 506 | 130 | 123  | 779   | 54   | 180 | 472 | 902 | 725        |





OVERALL DIMENSIONS

QT SPRING TO CLOSE WITH HYDRAULIC MANUAL OVERRIDE-MH

| Model Size                | A    | B    | C    | D   | E   | F     | G     | H     | I   | L   | M    | Weight(Kg) |
|---------------------------|------|------|------|-----|-----|-------|-------|-------|-----|-----|------|------------|
| QTHS-030 S/C-135-C0-CL-MH | 2692 | 1568 | 1124 | 506 | 130 | 123   | 785,5 | 47,5  | 180 | 485 | 915  | 725        |
| QTHS-030 S/C-135-C1-CL-MH | 2692 | 1568 | 1124 | 506 | 130 | 123   | 785,5 | 47,5  | 180 | 485 | 915  | 734        |
| QTHS-030 S/C-135-C2-CL-MH | 2692 | 1568 | 1124 | 506 | 130 | 123   | 785,5 | 47,5  | 180 | 485 | 915  | 734        |
| QTHS-030 S/C-135-C3-CL-MH | 2692 | 1568 | 1124 | 506 | 130 | 123   | 785,5 | 47,5  | 180 | 485 | 915  | 734        |
| QTHS-030 S/C-150-C0-CL-MH | 2693 | 1568 | 1125 | 506 | 130 | 123   | 793   | 40    | 180 | 500 | 930  | 735        |
| QTHS-030 S/C-150-C1-CL-MH | 2693 | 1568 | 1125 | 506 | 130 | 123   | 793   | 40    | 180 | 500 | 930  | 735        |
| QTHS-030 S/C-150-C2-CL-MH | 2693 | 1568 | 1125 | 506 | 130 | 123   | 793   | 40    | 180 | 500 | 930  | 735        |
| QTHS-030 S/C-150-C3-CL-MH | 2693 | 1568 | 1125 | 506 | 130 | 123   | 793   | 40    | 180 | 500 | 930  | 735        |
| QTHS-060 S/C-75-D1-CL-MH  | 3291 | 1965 | 1326 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1420       |
| QTHS-060 S/C-75-D2-CL-MH  | 3291 | 1965 | 1326 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1420       |
| QTHS-060 S/C-75-D3-CL-MH  | 3291 | 1965 | 1326 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1420       |
| QTHS-060 S/C-95-D1-CL-MH  | 3296 | 1965 | 1331 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1425       |
| QTHS-060 S/C-95-D2-CL-MH  | 3296 | 1965 | 1331 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1425       |
| QTHS-060 S/C-95-D3-CL-MH  | 3296 | 1965 | 1331 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1425       |
| QTHS-060 S/C-105-D1-CL-MH | 3296 | 1965 | 1331 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1425       |
| QTHS-060 S/C-105-D2-CL-MH | 3296 | 1965 | 1331 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1425       |
| QTHS-060 S/C-105-D3-CL-MH | 3296 | 1965 | 1331 | 569 | 163 | 121,5 | 799,5 | 98    | 205 | 425 | 966  | 1425       |
| QTHS-060 S/C-120-D1-CL-MH | 3301 | 1965 | 1336 | 569 | 163 | 121,5 | 810,5 | 87    | 205 | 447 | 988  | 1429       |
| QTHS-060 S/C-120-D2-CL-MH | 3301 | 1965 | 1336 | 569 | 163 | 121,5 | 810,5 | 87    | 205 | 447 | 988  | 1429       |
| QTHS-060 S/C-120-D3-CL-MH | 3301 | 1965 | 1336 | 569 | 163 | 121,5 | 810,5 | 87    | 205 | 447 | 988  | 1429       |
| QTHS-060 S/C-135-D1-CL-MH | 3306 | 1965 | 1341 | 569 | 163 | 121,5 | 817   | 80,5  | 205 | 460 | 1001 | 1435       |
| QTHS-060 S/C-135-D2-CL-MH | 3306 | 1965 | 1341 | 569 | 163 | 121,5 | 817   | 80,5  | 205 | 460 | 1001 | 1435       |
| QTHS-060 S/C-135-D3-CL-MH | 3306 | 1965 | 1341 | 569 | 163 | 121,5 | 817   | 80,5  | 205 | 460 | 1001 | 1435       |
| QTHS-060 S/C-150-D1-CL-MH | 3314 | 1965 | 1349 | 569 | 163 | 121,5 | 829,5 | 68    | 205 | 485 | 1026 | 1443       |
| QTHS-060 S/C-150-D2-CL-MH | 3314 | 1965 | 1349 | 569 | 163 | 121,5 | 829,5 | 68    | 205 | 485 | 1026 | 1443       |
| QTHS-060 S/C-150-D3-CL-MH | 3314 | 1965 | 1349 | 569 | 163 | 121,5 | 829,5 | 68    | 205 | 485 | 1026 | 1443       |
| QTHS-060 S/C-175-D1-CL-MH | 3324 | 1965 | 1359 | 569 | 163 | 121,5 | 847   | 50,5  | 205 | 520 | 1061 | 1452       |
| QTHS-060 S/C-175-D2-CL-MH | 3324 | 1965 | 1359 | 569 | 163 | 121,5 | 847   | 50,5  | 205 | 520 | 1061 | 1452       |
| QTHS-060 S/C-175-D3-CL-MH | 3324 | 1965 | 1359 | 569 | 163 | 121,5 | 847   | 50,5  | 205 | 520 | 1061 | 1452       |
| QTHS-120 S/C-95-E1-CL-MH  | 3730 | 2300 | 1430 | 654 | 205 | 122   | 839,5 | 142,5 | 230 | 395 | 1020 | 1850       |
| QTHS-120 S/C-95-E2-CL-MH  | 3730 | 2300 | 1430 | 654 | 205 | 122   | 839,5 | 142,5 | 230 | 395 | 1020 | 1850       |
| QTHS-120 S/C-95-E3-CL-MH  | 3730 | 2300 | 1430 | 654 | 205 | 122   | 839,5 | 142,5 | 230 | 395 | 1020 | 1850       |
| QTHS-120 S/C-95-E4-CL-MH  | 3730 | 2300 | 1430 | 654 | 205 | 122   | 839,5 | 142,5 | 230 | 395 | 1020 | 1850       |
| QTHS-120 S/C-120-E1-CL-MH | 3735 | 2300 | 1435 | 654 | 205 | 122   | 842   | 140   | 230 | 400 | 1025 | 1880       |
| QTHS-120 S/C-120-E2-CL-MH | 3735 | 2300 | 1435 | 654 | 205 | 122   | 842   | 140   | 230 | 400 | 1025 | 1880       |
| QTHS-120 S/C-120-E3-CL-MH | 3735 | 2300 | 1435 | 654 | 205 | 122   | 842   | 140   | 230 | 400 | 1025 | 1880       |
| QTHS-120 S/C-120-E4-CL-MH | 3735 | 2300 | 1435 | 654 | 205 | 122   | 842   | 140   | 230 | 400 | 1025 | 1880       |
| QTHS-120 S/C-135-E1-CL-MH | 3745 | 2300 | 1445 | 654 | 205 | 122   | 859,5 | 122,5 | 230 | 435 | 1060 | 1892       |
| QTHS-120 S/C-135-E2-CL-MH | 3745 | 2300 | 1445 | 654 | 205 | 122   | 859,5 | 122,5 | 230 | 435 | 1060 | 1892       |
| QTHS-120 S/C-135-E3-CL-MH | 3745 | 2300 | 1445 | 654 | 205 | 122   | 859,5 | 122,5 | 230 | 435 | 1060 | 1892       |
| QTHS-120 S/C-135-E4-CL-MH | 3745 | 2300 | 1445 | 654 | 205 | 122   | 859,5 | 122,5 | 230 | 435 | 1060 | 1892       |
| QTHS-120 S/C-150-E1-CL-MH | 3751 | 2300 | 1451 | 654 | 205 | 122   | 872   | 110   | 230 | 460 | 1085 | 1920       |
| QTHS-120 S/C-150-E2-CL-MH | 3751 | 2300 | 1451 | 654 | 205 | 122   | 872   | 110   | 230 | 460 | 1085 | 1920       |
| QTHS-120 S/C-150-E3-CL-MH | 3751 | 2300 | 1451 | 654 | 205 | 122   | 872   | 110   | 230 | 460 | 1085 | 1920       |
| QTHS-120 S/C-150-E4-CL-MH | 3751 | 2300 | 1451 | 654 | 205 | 122   | 872   | 110   | 230 | 460 | 1085 | 1920       |
| QTHS-120 S/C-175-E1-CL-MH | 3770 | 2300 | 1470 | 654 | 205 | 122   | 889,5 | 92,5  | 230 | 495 | 1120 | 1933       |
| QTHS-120 S/C-175-E2-CL-MH | 3770 | 2300 | 1470 | 654 | 205 | 122   | 889,5 | 92,5  | 230 | 495 | 1120 | 1933       |
| QTHS-120 S/C-175-E3-CL-MH | 3770 | 2300 | 1470 | 654 | 205 | 122   | 889,5 | 92,5  | 230 | 495 | 1120 | 1933       |
| QTHS-120 S/C-175-E4-CL-MH | 3770 | 2300 | 1470 | 654 | 205 | 122   | 889,5 | 92,5  | 230 | 495 | 1120 | 1933       |
| QTHS-120 S/C-200-E1-CL-MH | 3840 | 2300 | 1540 | 654 | 205 | 122   | 897   | 85    | 230 | 510 | 1135 | 1946       |

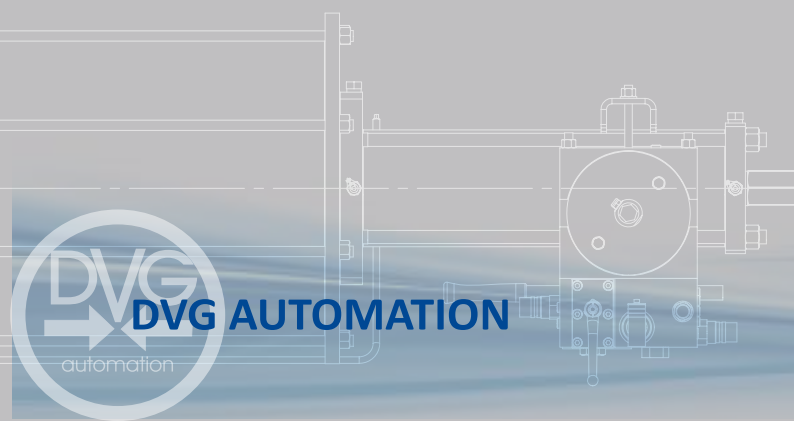
# OVERALL DIMENSIONS

## QT SPRING TO CLOSE WITH HYDRAULIC MANUAL OVERRIDE-MH

| Model Size                | A    | B    | C    | D   | E   | F     | G     | H    | I   | L   | M    | Weight(Kg) |
|---------------------------|------|------|------|-----|-----|-------|-------|------|-----|-----|------|------------|
| QTHS-120 S/C-200-E2-CL-MH | 3840 | 2300 | 1540 | 654 | 205 | 122   | 897   | 85   | 230 | 510 | 1135 | 1946       |
| QTHS-120 S/C-200-E3-CL-MH | 3840 | 2300 | 1540 | 654 | 205 | 122   | 897   | 85   | 230 | 510 | 1135 | 1946       |
| QTHS-120 S/C-200-E4-CL-MH | 3840 | 2300 | 1540 | 654 | 205 | 122   | 897   | 85   | 230 | 510 | 1135 | 1946       |
| QTHS-120 S/C-235-E1-CL-MH | 3871 | 2300 | 1571 | 654 | 205 | 122   | 954,5 | 27,5 | 230 | 625 | 1250 | 1970       |
| QTHS-120 S/C-235-E2-CL-MH | 3871 | 2300 | 1571 | 654 | 205 | 122   | 954,5 | 27,5 | 230 | 625 | 1250 | 1970       |
| QTHS-120 S/C-235-E3-CL-MH | 3871 | 2300 | 1571 | 654 | 205 | 122   | 954,5 | 27,5 | 230 | 625 | 1250 | 1970       |
| QTHS-120 S/C-235-E4-CL-MH | 3871 | 2300 | 1571 | 654 | 205 | 122   | 954,5 | 27,5 | 230 | 625 | 1250 | 1970       |
| QTHS-180 S/C-120-F1-CL-MH | 4268 | 2588 | 1680 | 745 | 230 | 142,5 | 937,5 | 115  | 255 | 475 | 1160 | 2370       |
| QTHS-180 S/C-120-F2-CL-MH | 4268 | 2588 | 1680 | 745 | 230 | 142,5 | 937,5 | 115  | 255 | 475 | 1160 | 2370       |
| QTHS-180 S/C-120-F3-CL-MH | 4268 | 2588 | 1680 | 745 | 230 | 142,5 | 937,5 | 115  | 255 | 475 | 1160 | 2370       |
| QTHS-180 S/C-135-F1-CL-MH | 4273 | 2588 | 1685 | 745 | 230 | 142,5 | 942,5 | 110  | 255 | 485 | 1170 | 2417       |
| QTHS-180 S/C-135-F2-CL-MH | 4273 | 2588 | 1685 | 745 | 230 | 142,5 | 942,5 | 110  | 255 | 485 | 1170 | 2417       |
| QTHS-180 S/C-135-F3-CL-MH | 4273 | 2588 | 1685 | 745 | 230 | 142,5 | 942,5 | 110  | 255 | 485 | 1170 | 2417       |
| QTHS-180 S/C-150-F1-CL-MH | 4280 | 2588 | 1692 | 745 | 230 | 142,5 | 947,5 | 105  | 255 | 495 | 1180 | 2445       |
| QTHS-180 S/C-150-F2-CL-MH | 4280 | 2588 | 1692 | 745 | 230 | 142,5 | 947,5 | 105  | 255 | 495 | 1180 | 2445       |
| QTHS-180 S/C-150-F3-CL-MH | 4280 | 2588 | 1692 | 745 | 230 | 142,5 | 947,5 | 105  | 255 | 495 | 1180 | 2445       |
| QTHS-180 S/C-175-F1-CL-MH | 4283 | 2588 | 1695 | 745 | 230 | 142,5 | 952,5 | 100  | 255 | 505 | 1190 | 2459       |
| QTHS-180 S/C-175-F2-CL-MH | 4283 | 2588 | 1695 | 745 | 230 | 142,5 | 952,5 | 100  | 255 | 505 | 1190 | 2459       |
| QTHS-180 S/C-175-F3-CL-MH | 4283 | 2588 | 1695 | 745 | 230 | 142,5 | 952,5 | 100  | 255 | 505 | 1190 | 2459       |
| QTHS-180 S/C-200-F1-CL-MH | 4283 | 2588 | 1695 | 745 | 230 | 142,5 | 952,5 | 100  | 255 | 505 | 1190 | 2475       |
| QTHS-180 S/C-200-F2-CL-MH | 4283 | 2588 | 1695 | 745 | 230 | 142,5 | 952,5 | 100  | 255 | 505 | 1190 | 2475       |
| QTHS-180 S/C-200-F3-CL-MH | 4283 | 2588 | 1695 | 745 | 230 | 142,5 | 952,5 | 100  | 255 | 505 | 1190 | 2475       |
| QTHS-180 S/C-235-F1-CL-MH | 4286 | 2588 | 1698 | 745 | 230 | 142,5 | 955   | 97,5 | 255 | 510 | 1195 | 2490       |
| QTHS-180 S/C-235-F2-CL-MH | 4286 | 2588 | 1698 | 745 | 230 | 142,5 | 955   | 97,5 | 255 | 510 | 1195 | 2490       |
| QTHS-180 S/C-235-F3-CL-MH | 4286 | 2588 | 1698 | 745 | 230 | 142,5 | 955   | 97,5 | 255 | 510 | 1195 | 2490       |
| QTHS-180 S/C-280-F1-CL-MH | 4293 | 2588 | 1705 | 745 | 230 | 142,5 | 962,5 | 90   | 255 | 525 | 1210 | 2520       |
| QTHS-180 S/C-280-F2-CL-MH | 4293 | 2588 | 1705 | 745 | 230 | 142,5 | 962,5 | 90   | 255 | 525 | 1210 | 2520       |
| QTHS-180 S/C-280-F3-CL-MH | 4293 | 2588 | 1705 | 745 | 230 | 142,5 | 962,5 | 90   | 255 | 525 | 1210 | 2520       |

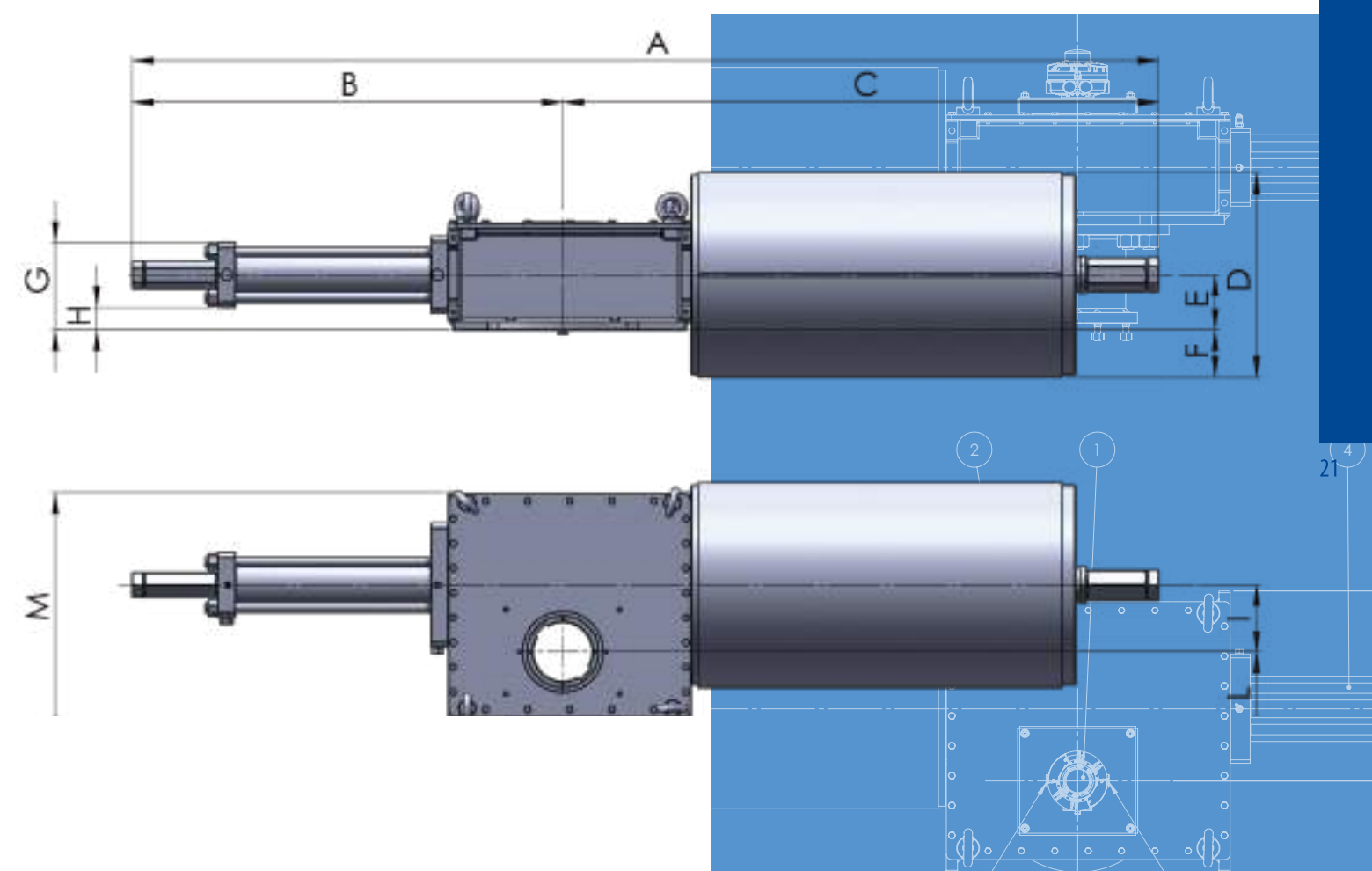


ELECTRIC CONNECTION M25X1.5 F



# OVERALL DIMENSIONS

## QT SPRING TO OPEN



| Model Size           | A    | B   | C   | D   | E  | F  | G   | H  | I   | L   | M   | Weight(Kg) |
|----------------------|------|-----|-----|-----|----|----|-----|----|-----|-----|-----|------------|
| QTHS-010S/C-40-A1-OP | 1717 | 963 | 754 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 188        |
| QTHS-010S/C-40-A2-OP | 1717 | 963 | 754 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 188        |
| QTHS-010S/C-40-A3-OP | 1717 | 963 | 754 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 188        |
| QTHS-010S/C-40-A4-OP | 1717 | 963 | 754 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 188        |
| QTHS-010S/C-45-A1-OP | 1717 | 963 | 754 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 190        |
| QTHS-010S/C-45-A2-OP | 1717 | 963 | 754 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 190        |
| QTHS-010S/C-45-A3-OP | 1717 | 963 | 754 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 190        |
| QTHS-010S/C-45-A4-OP | 1717 | 963 | 754 | 342 | 96 | 75 | 146 | 46 | 105 | 150 | 415 | 190        |
| QTHS-010S/C-55-A1-OP | 1729 | 963 | 766 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 197        |
| QTHS-010S/C-55-A2-OP | 1729 | 963 | 766 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 197        |
| QTHS-010S/C-55-A3-OP | 1729 | 963 | 766 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 197        |
| QTHS-010S/C-55-A4-OP | 1729 | 963 | 766 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 197        |
| QTHS-010S/C-65-A1-OP | 1740 | 963 | 777 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 202        |
| QTHS-010S/C-65-A2-OP | 1740 | 963 | 777 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 202        |
| QTHS-010S/C-65-A3-OP | 1740 | 963 | 777 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 202        |
| QTHS-010S/C-65-A4-OP | 1740 | 963 | 777 | 342 | 96 | 75 | 156 | 36 | 105 | 150 | 415 | 202        |
| QTHS-010S/C-75-A1-OP | 1745 | 963 | 782 | 342 | 96 | 75 | 161 | 31 | 105 | 150 | 415 | 206        |
| QTHS-010S/C-75-A2-OP | 1745 | 963 | 782 | 342 | 96 | 75 | 161 | 31 | 105 | 150 | 415 | 206        |
| QTHS-010S/C-75-A3-OP | 1745 | 963 | 782 | 342 | 96 | 75 | 161 | 31 | 105 | 150 | 415 | 208        |
| QTHS-010S/C-75-A4-OP | 1745 | 963 | 782 | 342 | 96 | 75 | 161 | 31 | 105 | 150 | 415 | 208        |

# OVERALL DIMENSIONS

## QT SPRING TO OPEN

| Model Size            | A    | B    | C    | D   | E   | F   | G   | H  | I   | L   | M   | Weight(Kg) |
|-----------------------|------|------|------|-----|-----|-----|-----|----|-----|-----|-----|------------|
| QTHS-010S/C-95-A1-OP  | 1745 | 963  | 782  | 342 | 96  | 75  | 159 | 34 | 105 | 150 | 415 | 215        |
| QTHS-010S/C-95-A2-OP  | 1745 | 963  | 782  | 342 | 96  | 75  | 159 | 34 | 105 | 150 | 415 | 215        |
| QTHS-010S/C-95-A3-OP  | 1745 | 963  | 782  | 342 | 96  | 75  | 159 | 34 | 105 | 150 | 415 | 215        |
| QTHS-010S/C-95-A4-OP  | 1745 | 963  | 782  | 342 | 96  | 75  | 159 | 34 | 105 | 150 | 415 | 215        |
| QTHS-010S/C-120-A1-OP | 1745 | 963  | 782  | 342 | 96  | 75  | 172 | 20 | 105 | 150 | 415 | 219        |
| QTHS-010S/C-120-A2-OP | 1745 | 963  | 782  | 342 | 96  | 75  | 172 | 20 | 105 | 150 | 415 | 232        |
| QTHS-010S/C-120-A3-OP | 1745 | 963  | 782  | 342 | 96  | 75  | 172 | 20 | 105 | 150 | 415 | 235        |
| QTHS-010S/C-120-A4-OP | 1745 | 963  | 782  | 342 | 96  | 75  | 172 | 20 | 105 | 150 | 415 | 238        |
| QTHS-016S/C-50-B1-OP  | 2003 | 1148 | 855  | 413 | 111 | 96  | 171 | 51 | 135 | 176 | 497 | 305        |
| QTHS-016S/C-50-B2-OP  | 2003 | 1148 | 855  | 413 | 111 | 96  | 171 | 51 | 135 | 176 | 497 | 305        |
| QTHS-016S/C-50-B3-OP  | 2003 | 1148 | 855  | 413 | 111 | 96  | 171 | 51 | 135 | 176 | 497 | 305        |
| QTHS-016S/C-65-B1-OP  | 2013 | 1148 | 865  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 315        |
| QTHS-016S/C-65-B2-OP  | 2013 | 1148 | 865  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 315        |
| QTHS-016S/C-65-B3-OP  | 2013 | 1148 | 865  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 315        |
| QTHS-016S/C-75-B1-OP  | 2043 | 1148 | 895  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 329        |
| QTHS-016S/C-75-B2-OP  | 2043 | 1148 | 895  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 329        |
| QTHS-016S/C-75-B3-OP  | 2043 | 1148 | 895  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 329        |
| QTHS-016S/C-90-B1-OP  | 2045 | 1148 | 897  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 332        |
| QTHS-016S/C-90-B2-OP  | 2045 | 1148 | 897  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 332        |
| QTHS-016S/C-90-B3-OP  | 2045 | 1148 | 897  | 413 | 111 | 96  | 174 | 49 | 135 | 176 | 497 | 332        |
| QTHS-016S/C-120-B1-OP | 2045 | 1148 | 897  | 413 | 111 | 96  | 187 | 35 | 135 | 176 | 497 | 338        |
| QTHS-016S/C-120-B2-OP | 2045 | 1148 | 897  | 413 | 111 | 96  | 187 | 35 | 135 | 176 | 497 | 338        |
| QTHS-016S/C-120-B3-OP | 2045 | 1148 | 897  | 413 | 111 | 96  | 187 | 35 | 135 | 176 | 497 | 338        |
| QTHS-016S/C-135-B1-OP | 2050 | 1148 | 902  | 413 | 111 | 96  | 194 | 29 | 135 | 176 | 497 | 345        |
| QTHS-016S/C-135-B2-OP | 2050 | 1148 | 902  | 413 | 111 | 96  | 194 | 29 | 135 | 176 | 497 | 345        |
| QTHS-016S/C-135-B3-OP | 2050 | 1148 | 902  | 413 | 111 | 96  | 194 | 29 | 135 | 176 | 497 | 345        |
| QTHS-030S/C-65-C0-OP  | 2682 | 1528 | 1154 | 506 | 130 | 123 | 193 | 68 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-65-C1-OP  | 2682 | 1528 | 1154 | 506 | 130 | 123 | 193 | 68 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-65-C2-OP  | 2682 | 1528 | 1154 | 506 | 130 | 123 | 193 | 68 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-65-C3-OP  | 2682 | 1528 | 1154 | 506 | 130 | 123 | 193 | 68 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-75-C0-OP  | 2682 | 1528 | 1154 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-75-C1-OP  | 2682 | 1528 | 1154 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-75-C2-OP  | 2682 | 1528 | 1154 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-75-C3-OP  | 2682 | 1528 | 1154 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 640        |
| QTHS-030S/C-80-C0-OP  | 2685 | 1528 | 1157 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 655        |
| QTHS-030S/C-80-C1-OP  | 2685 | 1528 | 1157 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 655        |
| QTHS-030S/C-80-C2-OP  | 2685 | 1528 | 1157 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 655        |
| QTHS-030S/C-80-C3-OP  | 2685 | 1528 | 1157 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 655        |
| QTHS-030S/C-95-C0-OP  | 2687 | 1528 | 1159 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-95-C1-OP  | 2687 | 1528 | 1159 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-95-C2-OP  | 2687 | 1528 | 1159 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-95-C3-OP  | 2687 | 1528 | 1159 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-105-C0-OP | 2687 | 1528 | 1159 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 670        |
| QTHS-030S/C-105-C1-OP | 2687 | 1528 | 1159 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 680        |
| QTHS-030S/C-105-C2-OP | 2687 | 1528 | 1159 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 680        |
| QTHS-030S/C-105-C3-OP | 2687 | 1528 | 1159 | 506 | 130 | 123 | 195 | 65 | 180 | 208 | 638 | 680        |
| QTHS-030S/C-120-C0-OP | 2690 | 1528 | 1162 | 506 | 130 | 123 | 206 | 54 | 180 | 208 | 638 | 680        |
| QTHS-030S/C-120-C1-OP | 2690 | 1528 | 1162 | 506 | 130 | 123 | 206 | 54 | 180 | 208 | 638 | 695        |
| QTHS-030S/C-120-C2-OP | 2690 | 1528 | 1162 | 506 | 130 | 123 | 206 | 54 | 180 | 208 | 638 | 695        |
| QTHS-030S/C-120-C3-OP | 2690 | 1528 | 1162 | 506 | 130 | 123 | 206 | 54 | 180 | 208 | 638 | 695        |





# OVERALL DIMENSIONS

## QT SPRING TO OPEN

| Model Size            | A    | B    | C    | D   | E   | F   | G   | H   | I   | L   | M   | Weight(Kg) |
|-----------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------------|
| QTHS-030S/C-135-C0-OP | 2692 | 1528 | 1164 | 506 | 130 | 123 | 213 | 48  | 180 | 208 | 638 | 695        |
| QTHS-030S/C-135-C1-OP | 2692 | 1528 | 1164 | 506 | 130 | 123 | 213 | 48  | 180 | 208 | 638 | 704        |
| QTHS-030S/C-135-C2-OP | 2692 | 1528 | 1164 | 506 | 130 | 123 | 213 | 48  | 180 | 208 | 638 | 704        |
| QTHS-030S/C-135-C3-OP | 2692 | 1528 | 1164 | 506 | 130 | 123 | 213 | 48  | 180 | 208 | 638 | 704        |
| QTHS-030S/C-150-C0-OP | 2693 | 1528 | 1165 | 506 | 130 | 123 | 220 | 40  | 180 | 208 | 638 | 705        |
| QTHS-030S/C-150-C1-OP | 2693 | 1528 | 1165 | 506 | 130 | 123 | 220 | 40  | 180 | 208 | 638 | 705        |
| QTHS-030S/C-150-C2-OP | 2693 | 1528 | 1165 | 506 | 130 | 123 | 220 | 40  | 180 | 208 | 638 | 705        |
| QTHS-030S/C-150-C3-OP | 2693 | 1528 | 1165 | 506 | 130 | 123 | 220 | 40  | 180 | 208 | 638 | 705        |
| QTHS-060S/C-75-D1-OP  | 3291 | 1905 | 1386 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1390       |
| QTHS-060S/C-75-D2-OP  | 3291 | 1905 | 1386 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1390       |
| QTHS-060S/C-75-D3-OP  | 3291 | 1905 | 1386 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1390       |
| QTHS-060S/C-95-D1-OP  | 3296 | 1905 | 1391 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-95-D2-OP  | 3296 | 1905 | 1391 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-95-D3-OP  | 3296 | 1905 | 1391 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-105-D1-OP | 3296 | 1905 | 1391 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-105-D2-OP | 3296 | 1905 | 1391 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-105-D3-OP | 3296 | 1905 | 1391 | 569 | 163 | 122 | 228 | 98  | 205 | 260 | 801 | 1395       |
| QTHS-060S/C-120-D1-OP | 3301 | 1905 | 1396 | 569 | 163 | 122 | 239 | 87  | 205 | 260 | 801 | 1399       |
| QTHS-060S/C-120-D2-OP | 3301 | 1905 | 1396 | 569 | 163 | 122 | 239 | 87  | 205 | 260 | 801 | 1399       |
| QTHS-060S/C-120-D3-OP | 3301 | 1905 | 1396 | 569 | 163 | 122 | 239 | 87  | 205 | 260 | 801 | 1399       |
| QTHS-060S/C-135-D1-OP | 3306 | 1905 | 1401 | 569 | 163 | 122 | 246 | 81  | 205 | 260 | 801 | 1405       |
| QTHS-060S/C-135-D2-OP | 3306 | 1905 | 1401 | 569 | 163 | 122 | 246 | 81  | 205 | 260 | 801 | 1405       |
| QTHS-060S/C-135-D3-OP | 3306 | 1905 | 1401 | 569 | 163 | 122 | 246 | 81  | 205 | 260 | 801 | 1405       |
| QTHS-060S/C-150-D1-OP | 3314 | 1905 | 1409 | 569 | 163 | 122 | 258 | 68  | 205 | 260 | 801 | 1413       |
| QTHS-060S/C-150-D2-OP | 3314 | 1905 | 1409 | 569 | 163 | 122 | 258 | 68  | 205 | 260 | 801 | 1413       |
| QTHS-060S/C-150-D3-OP | 3314 | 1905 | 1409 | 569 | 163 | 122 | 258 | 68  | 205 | 260 | 801 | 1413       |
| QTHS-060S/C-175-D1-OP | 3324 | 1905 | 1419 | 569 | 163 | 122 | 276 | 51  | 205 | 260 | 801 | 1422       |
| QTHS-060S/C-175-D2-OP | 3324 | 1905 | 1419 | 569 | 163 | 122 | 276 | 51  | 205 | 260 | 801 | 1422       |
| QTHS-060S/C-175-D3-OP | 3324 | 1905 | 1419 | 569 | 163 | 122 | 276 | 51  | 205 | 260 | 801 | 1422       |
| QTHS-120S/C-95-E1-OP  | 3730 | 2230 | 1500 | 654 | 205 | 122 | 268 | 143 | 230 | 280 | 905 | 1820       |
| QTHS-120S/C-95-E2-OP  | 3730 | 2230 | 1500 | 654 | 205 | 122 | 268 | 143 | 230 | 280 | 905 | 1820       |
| QTHS-120S/C-95-E3-OP  | 3730 | 2230 | 1500 | 654 | 205 | 122 | 268 | 143 | 230 | 280 | 905 | 1820       |
| QTHS-120S/C-95-E4-OP  | 3730 | 2230 | 1500 | 654 | 205 | 122 | 268 | 143 | 230 | 280 | 905 | 1820       |
| QTHS-120S/C-120-E1-OP | 3735 | 2230 | 1505 | 654 | 205 | 122 | 270 | 140 | 230 | 280 | 905 | 1850       |
| QTHS-120S/C-120-E2-OP | 3735 | 2230 | 1505 | 654 | 205 | 122 | 270 | 140 | 230 | 280 | 905 | 1850       |
| QTHS-120S/C-120-E3-OP | 3735 | 2230 | 1505 | 654 | 205 | 122 | 270 | 140 | 230 | 280 | 905 | 1850       |
| QTHS-120S/C-120-E4-OP | 3735 | 2230 | 1505 | 654 | 205 | 122 | 270 | 140 | 230 | 280 | 905 | 1850       |
| QTHS-120S/C-135-E1-OP | 3745 | 2230 | 1515 | 654 | 205 | 122 | 288 | 123 | 230 | 280 | 905 | 1862       |
| QTHS-120S/C-135-E2-OP | 3745 | 2230 | 1515 | 654 | 205 | 122 | 288 | 123 | 230 | 280 | 905 | 1862       |
| QTHS-120S/C-135-E3-OP | 3745 | 2230 | 1515 | 654 | 205 | 122 | 288 | 123 | 230 | 280 | 905 | 1862       |
| QTHS-120S/C-135-E4-OP | 3745 | 2230 | 1515 | 654 | 205 | 122 | 288 | 123 | 230 | 280 | 905 | 1862       |
| QTHS-120S/C-150-E1-OP | 3751 | 2230 | 1521 | 654 | 205 | 122 | 300 | 110 | 230 | 280 | 905 | 1890       |
| QTHS-120S/C-150-E2-OP | 3751 | 2230 | 1521 | 654 | 205 | 122 | 300 | 110 | 230 | 280 | 905 | 1890       |
| QTHS-120S/C-150-E3-OP | 3751 | 2230 | 1521 | 654 | 205 | 122 | 300 | 110 | 230 | 280 | 905 | 1890       |
| QTHS-120S/C-150-E4-OP | 3751 | 2230 | 1521 | 654 | 205 | 122 | 300 | 110 | 230 | 280 | 905 | 1890       |
| QTHS-120S/C-175-E1-OP | 3770 | 2230 | 1540 | 654 | 205 | 122 | 318 | 93  | 230 | 280 | 905 | 1903       |
| QTHS-120S/C-175-E2-OP | 3770 | 2230 | 1540 | 654 | 205 | 122 | 318 | 93  | 230 | 280 | 905 | 1903       |
| QTHS-120S/C-175-E3-OP | 3770 | 2230 | 1540 | 654 | 205 | 122 | 318 | 93  | 230 | 280 | 905 | 1903       |
| QTHS-120S/C-175-E4-OP | 3770 | 2230 | 1540 | 654 | 205 | 122 | 318 | 93  | 230 | 280 | 905 | 1903       |
| QTHS-120S/C-200-E1-OP | 3840 | 2230 | 1610 | 654 | 205 | 122 | 325 | 85  | 230 | 280 | 905 | 1916       |

# OVERALL DIMENSIONS

## QT SPRING TO OPEN

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| Model Size            | A    | B    | C    | D   | E   | F   | G   | H   | I   | L   | M    | Weight(Kg) |
|-----------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|------------|
| QTHS-120S/C-200-E2-OP | 3840 | 2230 | 1610 | 654 | 205 | 122 | 325 | 85  | 230 | 280 | 905  | 1916       |
| QTHS-120S/C-200-E3-OP | 3840 | 2230 | 1610 | 654 | 205 | 122 | 325 | 85  | 230 | 280 | 905  | 1916       |
| QTHS-120S/C-200-E4-OP | 3840 | 2230 | 1610 | 654 | 205 | 122 | 325 | 85  | 230 | 280 | 905  | 1916       |
| QTHS-120S/C-235-E1-OP | 3871 | 2230 | 1641 | 654 | 205 | 122 | 383 | 28  | 230 | 280 | 905  | 1940       |
| QTHS-120S/C-235-E2-OP | 3871 | 2230 | 1641 | 654 | 205 | 122 | 383 | 28  | 230 | 280 | 905  | 1940       |
| QTHS-120S/C-235-E3-OP | 3871 | 2230 | 1641 | 654 | 205 | 122 | 383 | 28  | 230 | 280 | 905  | 1940       |
| QTHS-120S/C-235-E4-OP | 3871 | 2230 | 1641 | 654 | 205 | 122 | 383 | 28  | 230 | 280 | 905  | 1940       |
| QTHS-180S/C-120-F1-OP | 4268 | 2511 | 1757 | 745 | 230 | 143 | 345 | 115 | 255 | 355 | 1040 | 2340       |
| QTHS-180S/C-120-F2-OP | 4268 | 2511 | 1757 | 745 | 230 | 143 | 345 | 115 | 255 | 355 | 1040 | 2340       |
| QTHS-180S/C-120-F3-OP | 4268 | 2511 | 1757 | 745 | 230 | 143 | 345 | 115 | 255 | 355 | 1040 | 2340       |
| QTHS-180S/C-135-F1-OP | 4273 | 2511 | 1762 | 745 | 230 | 143 | 350 | 110 | 255 | 355 | 1040 | 2387       |
| QTHS-180S/C-135-F2-OP | 4273 | 2511 | 1762 | 745 | 230 | 143 | 350 | 110 | 255 | 355 | 1040 | 2387       |
| QTHS-180S/C-135-F3-OP | 4273 | 2511 | 1762 | 745 | 230 | 143 | 350 | 110 | 255 | 355 | 1040 | 2387       |
| QTHS-180S/C-150-F1-OP | 4280 | 2511 | 1769 | 745 | 230 | 143 | 355 | 105 | 255 | 355 | 1040 | 2415       |
| QTHS-180S/C-150-F2-OP | 4280 | 2511 | 1769 | 745 | 230 | 143 | 355 | 105 | 255 | 355 | 1040 | 2415       |
| QTHS-180S/C-150-F3-OP | 4280 | 2511 | 1769 | 745 | 230 | 143 | 355 | 105 | 255 | 355 | 1040 | 2415       |
| QTHS-180S/C-175-F1-OP | 4283 | 2511 | 1772 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2429       |
| QTHS-180S/C-175-F2-OP | 4283 | 2511 | 1772 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2429       |
| QTHS-180S/C-175-F3-OP | 4283 | 2511 | 1772 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2429       |
| QTHS-180S/C-200-F1-OP | 4283 | 2511 | 1772 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2445       |
| QTHS-180S/C-200-F2-OP | 4283 | 2511 | 1772 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2445       |
| QTHS-180S/C-200-F3-OP | 4283 | 2511 | 1772 | 745 | 230 | 143 | 360 | 100 | 255 | 355 | 1040 | 2445       |
| QTHS-180S/C-235-F1-OP | 4286 | 2511 | 1775 | 745 | 230 | 143 | 363 | 98  | 255 | 355 | 1040 | 2460       |
| QTHS-180S/C-235-F2-OP | 4286 | 2511 | 1775 | 745 | 230 | 143 | 363 | 98  | 255 | 355 | 1040 | 2460       |
| QTHS-180S/C-235-F3-OP | 4286 | 2511 | 1775 | 745 | 230 | 143 | 363 | 98  | 255 | 355 | 1040 | 2460       |
| QTHS-180S/C-280-F1-OP | 4293 | 2511 | 1782 | 745 | 230 | 143 | 370 | 90  | 255 | 355 | 1040 | 2490       |
| QTHS-180S/C-280-F2-OP | 4293 | 2511 | 1782 | 745 | 230 | 143 | 370 | 90  | 255 | 355 | 1040 | 2490       |
| QTHS-180S/C-280-F3-OP | 4293 | 2511 | 1782 | 745 | 230 | 143 | 370 | 90  | 255 | 355 | 1040 | 2490       |

## OVERALL DIMENSIONS

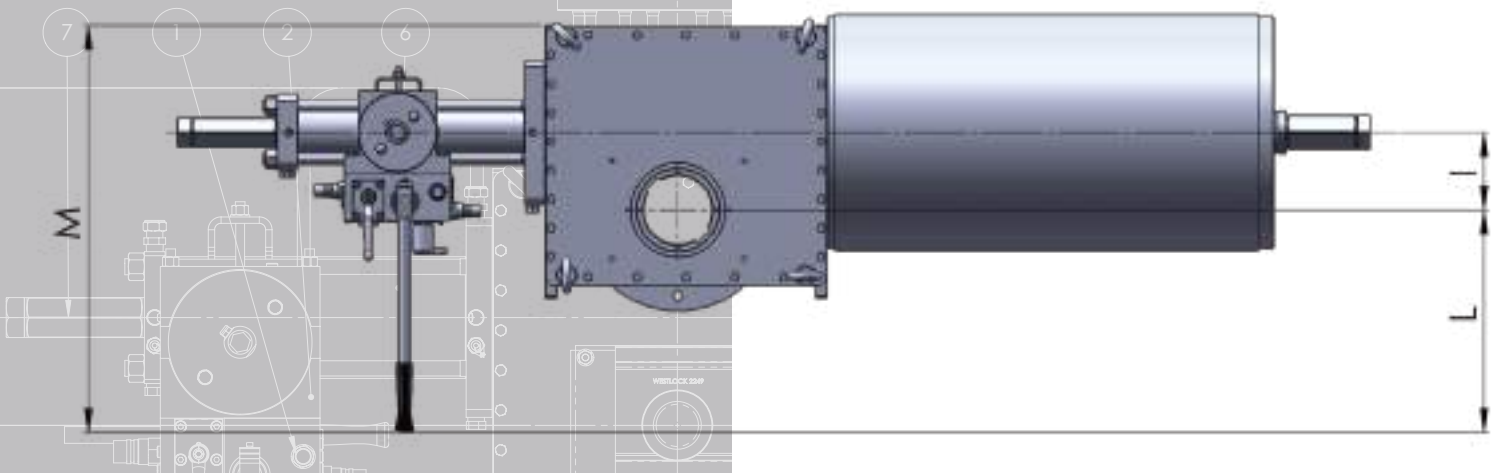
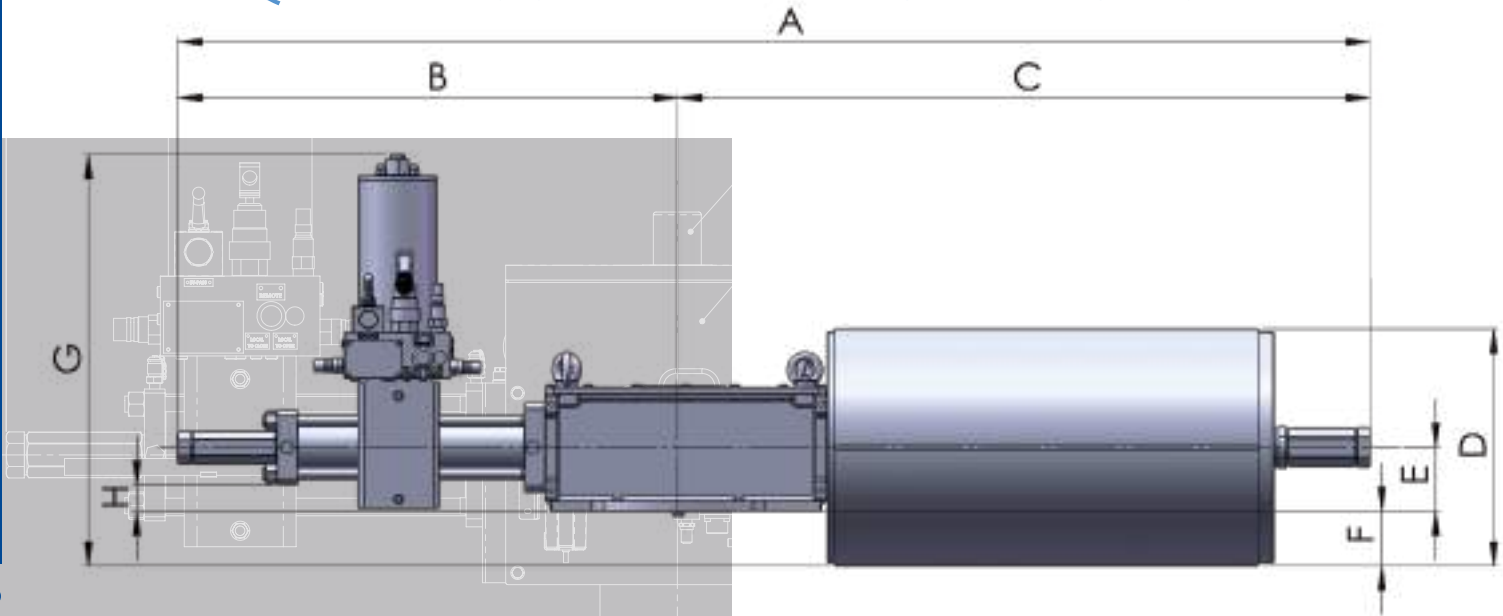
### QT SPRING TO OPEN





OVERALL DIMENSIONS

QT SPRING TO OPEN WITH HYDRAULIC MANUAL OVERRIDE-MH



| Model Size              | A    | B   | C   | D   | E  | F  | G   | H  | I   | L   | M   | Weight(Kg) |
|-------------------------|------|-----|-----|-----|----|----|-----|----|-----|-----|-----|------------|
| QTHS-010S/C-40-A1-OP-MH | 1717 | 963 | 754 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 218        |
| QTHS-010S/C-40-A2-OP-MH | 1717 | 963 | 754 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 218        |
| QTHS-010S/C-40-A3-OP-MH | 1717 | 963 | 754 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 218        |
| QTHS-010S/C-40-A4-OP-MH | 1717 | 963 | 754 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 218        |
| QTHS-010S/C-45-A1-OP-MH | 1717 | 963 | 754 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 220        |
| QTHS-010S/C-45-A2-OP-MH | 1717 | 963 | 754 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 220        |
| QTHS-010S/C-45-A3-OP-MH | 1717 | 963 | 754 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 220        |
| QTHS-010S/C-45-A4-OP-MH | 1717 | 963 | 754 | 342 | 96 | 75 | 671 | 46 | 105 | 495 | 760 | 220        |
| QTHS-010S/C-55-A1-OP-MH | 1729 | 963 | 766 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 227        |
| QTHS-010S/C-55-A2-OP-MH | 1729 | 963 | 766 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 227        |
| QTHS-010S/C-55-A3-OP-MH | 1729 | 963 | 766 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 227        |
| QTHS-010S/C-55-A4-OP-MH | 1729 | 963 | 766 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 227        |
| QTHS-010S/C-65-A1-OP-MH | 1740 | 963 | 777 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 232        |
| QTHS-010S/C-65-A2-OP-MH | 1740 | 963 | 777 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 232        |
| QTHS-010S/C-65-A3-OP-MH | 1740 | 963 | 777 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 232        |
| QTHS-010S/C-65-A4-OP-MH | 1740 | 963 | 777 | 342 | 96 | 75 | 681 | 36 | 105 | 515 | 780 | 232        |
| QTHS-010S/C-75-A1-OP-MH | 1745 | 963 | 782 | 342 | 96 | 75 | 686 | 31 | 105 | 525 | 790 | 236        |
| QTHS-010S/C-75-A2-OP-MH | 1745 | 963 | 782 | 342 | 96 | 75 | 686 | 31 | 105 | 525 | 790 | 236        |
| QTHS-010S/C-75-A3-OP-MH | 1745 | 963 | 782 | 342 | 96 | 75 | 686 | 31 | 105 | 525 | 790 | 238        |
| QTHS-010S/C-75-A4-OP-MH | 1745 | 963 | 782 | 342 | 96 | 75 | 686 | 31 | 105 | 525 | 790 | 238        |



OVERALL DIMENSIONS

QT SPRING TO OPEN WITH HYDRAULIC MANUAL OVERRIDE-MH

| Model Size               | A    | B    | C    | D   | E   | F    | G     | H  | I   | L   | M   | Weight(Kg) |
|--------------------------|------|------|------|-----|-----|------|-------|----|-----|-----|-----|------------|
| QTHS-010S/C-95-A1-OP-MH  | 1745 | 963  | 782  | 342 | 96  | 75   | 683,5 | 34 | 105 | 520 | 785 | 245        |
| QTHS-010S/C-95-A2-OP-MH  | 1745 | 963  | 782  | 342 | 96  | 75   | 683,5 | 34 | 105 | 520 | 785 | 245        |
| QTHS-010S/C-95-A3-OP-MH  | 1745 | 963  | 782  | 342 | 96  | 75   | 683,5 | 34 | 105 | 520 | 785 | 245        |
| QTHS-010S/C-95-A4-OP-MH  | 1745 | 963  | 782  | 342 | 96  | 75   | 683,5 | 34 | 105 | 520 | 785 | 245        |
| QTHS-010S/C-120-A1-OP-MH | 1745 | 963  | 782  | 342 | 96  | 75   | 697   | 20 | 105 | 547 | 812 | 249        |
| QTHS-010S/C-120-A2-OP-MH | 1745 | 963  | 782  | 342 | 96  | 75   | 697   | 20 | 105 | 547 | 812 | 262        |
| QTHS-010S/C-120-A3-OP-MH | 1745 | 963  | 782  | 342 | 96  | 75   | 697   | 20 | 105 | 547 | 812 | 265        |
| QTHS-010S/C-120-A4-OP-MH | 1745 | 963  | 782  | 342 | 96  | 75   | 697   | 20 | 105 | 547 | 812 | 268        |
| QTHS-016S/C-50-B1-OP-MH  | 2003 | 1148 | 855  | 413 | 111 | 95,5 | 716,5 | 51 | 135 | 485 | 806 | 335        |
| QTHS-016S/C-50-B2-OP-MH  | 2003 | 1148 | 855  | 413 | 111 | 95,5 | 716,5 | 51 | 135 | 485 | 806 | 335        |
| QTHS-016S/C-50-B3-OP-MH  | 2003 | 1148 | 855  | 413 | 111 | 95,5 | 716,5 | 51 | 135 | 485 | 806 | 335        |
| QTHS-016S/C-65-B1-OP-MH  | 2013 | 1148 | 865  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 345        |
| QTHS-016S/C-65-B2-OP-MH  | 2013 | 1148 | 865  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 345        |
| QTHS-016S/C-65-B3-OP-MH  | 2013 | 1148 | 865  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 345        |
| QTHS-016S/C-75-B1-OP-MH  | 2043 | 1148 | 895  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 359        |
| QTHS-016S/C-75-B2-OP-MH  | 2043 | 1148 | 895  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 359        |
| QTHS-016S/C-75-B3-OP-MH  | 2043 | 1148 | 895  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 359        |
| QTHS-016S/C-90-B1-OP-MH  | 2045 | 1148 | 897  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 362        |
| QTHS-016S/C-90-B2-OP-MH  | 2045 | 1148 | 897  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 362        |
| QTHS-016S/C-90-B3-OP-MH  | 2045 | 1148 | 897  | 413 | 111 | 95,5 | 719   | 49 | 135 | 490 | 811 | 362        |
| QTHS-016S/C-120-B1-OP-MH | 2045 | 1148 | 897  | 413 | 111 | 95,5 | 732,5 | 35 | 135 | 517 | 838 | 368        |
| QTHS-016S/C-120-B2-OP-MH | 2045 | 1148 | 897  | 413 | 111 | 95,5 | 732,5 | 35 | 135 | 517 | 838 | 368        |
| QTHS-016S/C-120-B3-OP-MH | 2045 | 1148 | 897  | 413 | 111 | 95,5 | 732,5 | 35 | 135 | 517 | 838 | 368        |
| QTHS-016S/C-135-B1-OP-MH | 2050 | 1148 | 902  | 413 | 111 | 95,5 | 739   | 29 | 135 | 530 | 851 | 375        |
| QTHS-016S/C-135-B2-OP-MH | 2050 | 1148 | 902  | 413 | 111 | 95,5 | 739   | 29 | 135 | 530 | 851 | 375        |
| QTHS-016S/C-135-B3-OP-MH | 2050 | 1148 | 902  | 413 | 111 | 95,5 | 739   | 29 | 135 | 530 | 851 | 375        |
| QTHS-030S/C-65-C0-OP-MH  | 2682 | 1528 | 1154 | 506 | 130 | 123  | 765,5 | 68 | 180 | 445 | 875 | 670        |
| QTHS-030S/C-65-C1-OP-MH  | 2682 | 1528 | 1154 | 506 | 130 | 123  | 765,5 | 68 | 180 | 445 | 875 | 670        |
| QTHS-030S/C-65-C2-OP-MH  | 2682 | 1528 | 1154 | 506 | 130 | 123  | 765,5 | 68 | 180 | 445 | 875 | 670        |
| QTHS-030S/C-65-C3-OP-MH  | 2682 | 1528 | 1154 | 506 | 130 | 123  | 765,5 | 68 | 180 | 445 | 875 | 670        |
| QTHS-030S/C-75-C0-OP-MH  | 2682 | 1528 | 1154 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 670        |
| QTHS-030S/C-75-C1-OP-MH  | 2682 | 1528 | 1154 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 670        |
| QTHS-030S/C-75-C2-OP-MH  | 2682 | 1528 | 1154 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 670        |
| QTHS-030S/C-75-C3-OP-MH  | 2682 | 1528 | 1154 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 670        |
| QTHS-030S/C-80-C0-OP-MH  | 2685 | 1528 | 1157 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 685        |
| QTHS-030S/C-80-C1-OP-MH  | 2685 | 1528 | 1157 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 685        |
| QTHS-030S/C-80-C2-OP-MH  | 2685 | 1528 | 1157 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 685        |
| QTHS-030S/C-80-C3-OP-MH  | 2685 | 1528 | 1157 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 685        |
| QTHS-030S/C-95-C0-OP-MH  | 2687 | 1528 | 1159 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 700        |
| QTHS-030S/C-95-C1-OP-MH  | 2687 | 1528 | 1159 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 700        |
| QTHS-030S/C-95-C2-OP-MH  | 2687 | 1528 | 1159 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 700        |
| QTHS-030S/C-95-C3-OP-MH  | 2687 | 1528 | 1159 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 700        |
| QTHS-030S/C-105-C0-OP-MH | 2687 | 1528 | 1159 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 700        |
| QTHS-030S/C-105-C1-OP-MH | 2687 | 1528 | 1159 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 710        |
| QTHS-030S/C-105-C2-OP-MH | 2687 | 1528 | 1159 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 710        |
| QTHS-030S/C-105-C3-OP-MH | 2687 | 1528 | 1159 | 506 | 130 | 123  | 768   | 65 | 180 | 450 | 880 | 710        |
| QTHS-030S/C-120-C0-OP-MH | 2690 | 1528 | 1162 | 506 | 130 | 123  | 779   | 54 | 180 | 472 | 902 | 710        |
| QTHS-030S/C-120-C1-OP-MH | 2690 | 1528 | 1162 | 506 | 130 | 123  | 779   | 54 | 180 | 472 | 902 | 725        |
| QTHS-030S/C-120-C2-OP-MH | 2690 | 1528 | 1162 | 506 | 130 | 123  | 779   | 54 | 180 | 472 | 902 | 725        |
| QTHS-030S/C-120-C3-OP-MH | 2690 | 1528 | 1162 | 506 | 130 | 123  | 779   | 54 | 180 | 472 | 902 | 725        |

# OVERALL DIMENSIONS

## QT SPRING TO OPEN WITH HYDRAULIC MANUAL OVERRIDE-MH

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| Model Size               | A    | B    | C    | D   | E   | F     | G     | H   | I   | L   | M    | Weight(Kg) |
|--------------------------|------|------|------|-----|-----|-------|-------|-----|-----|-----|------|------------|
| QTHS-030S/C-135-C0-OP-MH | 2692 | 1528 | 1164 | 506 | 130 | 123   | 785,5 | 48  | 180 | 485 | 915  | 725        |
| QTHS-030S/C-135-C1-OP-MH | 2692 | 1528 | 1164 | 506 | 130 | 123   | 785,5 | 48  | 180 | 485 | 915  | 734        |
| QTHS-030S/C-135-C2-OP-MH | 2692 | 1528 | 1164 | 506 | 130 | 123   | 785,5 | 48  | 180 | 485 | 915  | 734        |
| QTHS-030S/C-135-C3-OP-MH | 2692 | 1528 | 1164 | 506 | 130 | 123   | 785,5 | 48  | 180 | 485 | 915  | 734        |
| QTHS-030S/C-150-C0-OP-MH | 2693 | 1528 | 1165 | 506 | 130 | 123   | 793   | 40  | 180 | 500 | 930  | 735        |
| QTHS-030S/C-150-C1-OP-MH | 2693 | 1528 | 1165 | 506 | 130 | 123   | 793   | 40  | 180 | 500 | 930  | 735        |
| QTHS-030S/C-150-C2-OP-MH | 2693 | 1528 | 1165 | 506 | 130 | 123   | 793   | 40  | 180 | 500 | 930  | 735        |
| QTHS-030S/C-150-C3-OP-MH | 2693 | 1528 | 1165 | 506 | 130 | 123   | 793   | 40  | 180 | 500 | 930  | 735        |
| QTHS-060S/C-75-D1-OP-MH  | 3291 | 1905 | 1386 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1420       |
| QTHS-060S/C-75-D2-OP-MH  | 3291 | 1905 | 1386 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1420       |
| QTHS-060S/C-75-D3-OP-MH  | 3291 | 1905 | 1386 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1420       |
| QTHS-060S/C-95-D1-OP-MH  | 3296 | 1905 | 1391 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1425       |
| QTHS-060S/C-95-D2-OP-MH  | 3296 | 1905 | 1391 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1425       |
| QTHS-060S/C-95-D3-OP-MH  | 3296 | 1905 | 1391 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1425       |
| QTHS-060S/C-105-D1-OP-MH | 3296 | 1905 | 1391 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1425       |
| QTHS-060S/C-105-D2-OP-MH | 3296 | 1905 | 1391 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1425       |
| QTHS-060S/C-105-D3-OP-MH | 3296 | 1905 | 1391 | 569 | 163 | 121,5 | 799,5 | 98  | 205 | 425 | 966  | 1425       |
| QTHS-060S/C-120-D1-OP-MH | 3301 | 1905 | 1396 | 569 | 163 | 121,5 | 810,5 | 87  | 205 | 447 | 988  | 1429       |
| QTHS-060S/C-120-D2-OP-MH | 3301 | 1905 | 1396 | 569 | 163 | 121,5 | 810,5 | 87  | 205 | 447 | 988  | 1429       |
| QTHS-060S/C-120-D3-OP-MH | 3301 | 1905 | 1396 | 569 | 163 | 121,5 | 810,5 | 87  | 205 | 447 | 988  | 1429       |
| QTHS-060S/C-135-D1-OP-MH | 3306 | 1905 | 1401 | 569 | 163 | 121,5 | 817   | 81  | 205 | 460 | 1001 | 1435       |
| QTHS-060S/C-135-D2-OP-MH | 3306 | 1905 | 1401 | 569 | 163 | 121,5 | 817   | 81  | 205 | 460 | 1001 | 1435       |
| QTHS-060S/C-135-D3-OP-MH | 3306 | 1905 | 1401 | 569 | 163 | 121,5 | 817   | 81  | 205 | 460 | 1001 | 1435       |
| QTHS-060S/C-150-D1-OP-MH | 3314 | 1905 | 1409 | 569 | 163 | 121,5 | 829,5 | 68  | 205 | 485 | 1026 | 1443       |
| QTHS-060S/C-150-D2-OP-MH | 3314 | 1905 | 1409 | 569 | 163 | 121,5 | 829,5 | 68  | 205 | 485 | 1026 | 1443       |
| QTHS-060S/C-150-D3-OP-MH | 3314 | 1905 | 1409 | 569 | 163 | 121,5 | 829,5 | 68  | 205 | 485 | 1026 | 1443       |
| QTHS-060S/C-175-D1-OP-MH | 3324 | 1905 | 1419 | 569 | 163 | 121,5 | 847   | 51  | 205 | 520 | 1061 | 1452       |
| QTHS-060S/C-175-D2-OP-MH | 3324 | 1905 | 1419 | 569 | 163 | 121,5 | 847   | 51  | 205 | 520 | 1061 | 1452       |
| QTHS-060S/C-175-D3-OP-MH | 3324 | 1905 | 1419 | 569 | 163 | 121,5 | 847   | 51  | 205 | 520 | 1061 | 1452       |
| QTHS-120S/C-95-E1-OP-MH  | 3730 | 2230 | 1500 | 654 | 205 | 122   | 839,5 | 143 | 230 | 395 | 1020 | 1850       |
| QTHS-120S/C-95-E2-OP-MH  | 3730 | 2230 | 1500 | 654 | 205 | 122   | 839,5 | 143 | 230 | 395 | 1020 | 1850       |
| QTHS-120S/C-95-E3-OP-MH  | 3730 | 2230 | 1500 | 654 | 205 | 122   | 839,5 | 143 | 230 | 395 | 1020 | 1850       |
| QTHS-120S/C-95-E4-OP-MH  | 3730 | 2230 | 1500 | 654 | 205 | 122   | 839,5 | 143 | 230 | 395 | 1020 | 1850       |
| QTHS-120S/C-120-E1-OP-MH | 3735 | 2230 | 1505 | 654 | 205 | 122   | 842   | 140 | 230 | 400 | 1025 | 1880       |
| QTHS-120S/C-120-E2-OP-MH | 3735 | 2230 | 1505 | 654 | 205 | 122   | 842   | 140 | 230 | 400 | 1025 | 1880       |
| QTHS-120S/C-120-E3-OP-MH | 3735 | 2230 | 1505 | 654 | 205 | 122   | 842   | 140 | 230 | 400 | 1025 | 1880       |
| QTHS-120S/C-120-E4-OP-MH | 3735 | 2230 | 1505 | 654 | 205 | 122   | 842   | 140 | 230 | 400 | 1025 | 1880       |
| QTHS-120S/C-135-E1-OP-MH | 3745 | 2230 | 1515 | 654 | 205 | 122   | 859,5 | 123 | 230 | 435 | 1060 | 1892       |
| QTHS-120S/C-135-E2-OP-MH | 3745 | 2230 | 1515 | 654 | 205 | 122   | 859,5 | 123 | 230 | 435 | 1060 | 1892       |
| QTHS-120S/C-135-E3-OP-MH | 3745 | 2230 | 1515 | 654 | 205 | 122   | 859,5 | 123 | 230 | 435 | 1060 | 1892       |
| QTHS-120S/C-135-E4-OP-MH | 3745 | 2230 | 1515 | 654 | 205 | 122   | 859,5 | 123 | 230 | 435 | 1060 | 1892       |
| QTHS-120S/C-150-E1-OP-MH | 3751 | 2230 | 1521 | 654 | 205 | 122   | 872   | 110 | 230 | 460 | 1085 | 1920       |
| QTHS-120S/C-150-E2-OP-MH | 3751 | 2230 | 1521 | 654 | 205 | 122   | 872   | 110 | 230 | 460 | 1085 | 1920       |
| QTHS-120S/C-150-E3-OP-MH | 3751 | 2230 | 1521 | 654 | 205 | 122   | 872   | 110 | 230 | 460 | 1085 | 1920       |
| QTHS-120S/C-150-E4-OP-MH | 3751 | 2230 | 1521 | 654 | 205 | 122   | 872   | 110 | 230 | 460 | 1085 | 1920       |
| QTHS-120S/C-175-E1-OP-MH | 3770 | 2230 | 1540 | 654 | 205 | 122   | 889,5 | 93  | 230 | 495 | 1120 | 1933       |
| QTHS-120S/C-175-E2-OP-MH | 3770 | 2230 | 1540 | 654 | 205 | 122   | 889,5 | 93  | 230 | 495 | 1120 | 1933       |
| QTHS-120S/C-175-E3-OP-MH | 3770 | 2230 | 1540 | 654 | 205 | 122   | 889,5 | 93  | 230 | 495 | 1120 | 1933       |
| QTHS-120S/C-175-E4-OP-MH | 3770 | 2230 | 1540 | 654 | 205 | 122   | 889,5 | 93  | 230 | 495 | 1120 | 1933       |
| QTHS-120S/C-200-E2-OP-MH | 3840 | 2230 | 1610 | 654 | 205 | 122   | 897   | 85  | 230 | 510 | 1135 | 1946       |

OVERALL DIMENSIONS

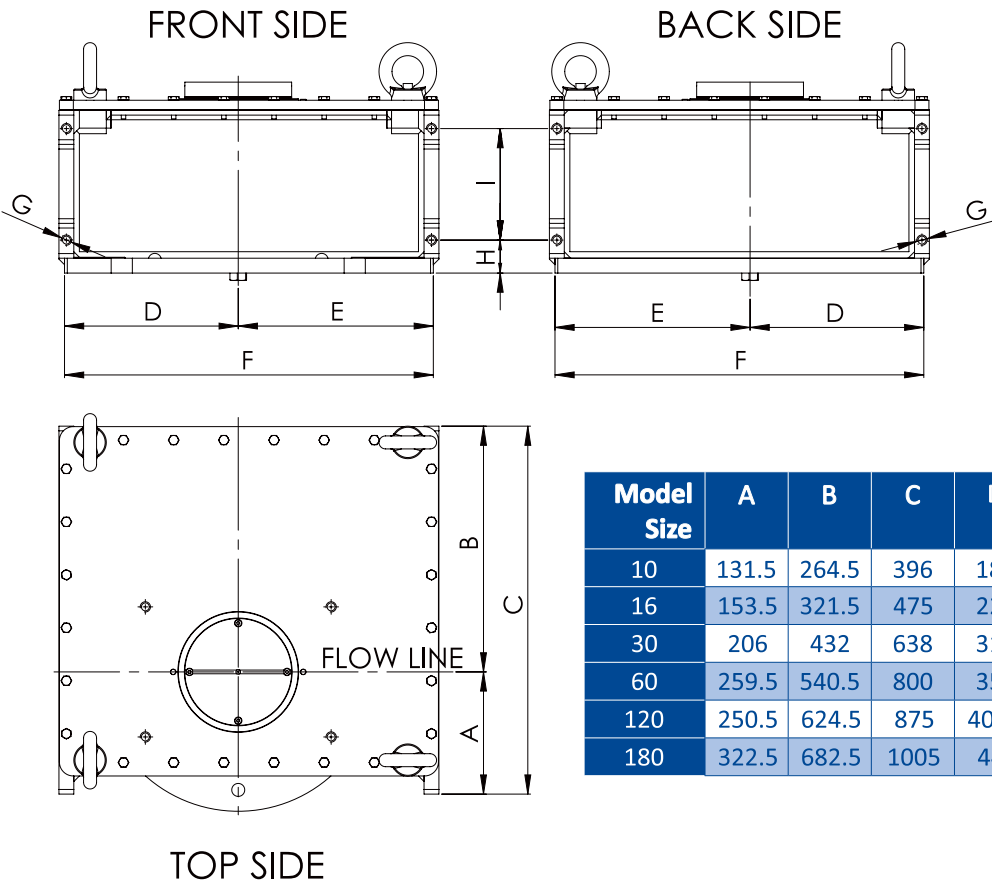
QT SPRING TO OPEN WITH HYDRAULIC MANUAL OVERRIDE-MH

| Model Size               | A    | B    | C    | D   | E   | F     | G     | H   | I   | L   | M    | Weight(Kg) |
|--------------------------|------|------|------|-----|-----|-------|-------|-----|-----|-----|------|------------|
| QTHS-120S/C-200-E3-OP-MH | 3840 | 2230 | 1610 | 654 | 205 | 122   | 897   | 85  | 230 | 510 | 1135 | 1946       |
| QTHS-120S/C-200-E4-OP-MH | 3840 | 2230 | 1610 | 654 | 205 | 122   | 897   | 85  | 230 | 510 | 1135 | 1946       |
| QTHS-120S/C-235-E1-OP-MH | 3871 | 2230 | 1641 | 654 | 205 | 122   | 954,5 | 28  | 230 | 625 | 1250 | 1970       |
| QTHS-120S/C-235-E2-OP-MH | 3871 | 2230 | 1641 | 654 | 205 | 122   | 954,5 | 28  | 230 | 625 | 1250 | 1970       |
| QTHS-120S/C-235-E3-OP-MH | 3871 | 2230 | 1641 | 654 | 205 | 122   | 954,5 | 28  | 230 | 625 | 1250 | 1970       |
| QTHS-120S/C-235-E4-OP-MH | 3871 | 2230 | 1641 | 654 | 205 | 122   | 954,5 | 28  | 230 | 625 | 1250 | 1970       |
| QTHS-180S/C-120-F1-OP-MH | 4268 | 2511 | 1757 | 745 | 230 | 142,5 | 937,5 | 115 | 255 | 475 | 1160 | 2370       |
| QTHS-180S/C-120-F2-OP-MH | 4268 | 2511 | 1757 | 745 | 230 | 142,5 | 937,5 | 115 | 255 | 475 | 1160 | 2370       |
| QTHS-180S/C-120-F3-OP-MH | 4268 | 2511 | 1757 | 745 | 230 | 142,5 | 937,5 | 115 | 255 | 475 | 1160 | 2370       |
| QTHS-180S/C-135-F1-OP-MH | 4273 | 2511 | 1762 | 745 | 230 | 142,5 | 942,5 | 110 | 255 | 485 | 1170 | 2417       |
| QTHS-180S/C-135-F2-OP-MH | 4273 | 2511 | 1762 | 745 | 230 | 142,5 | 942,5 | 110 | 255 | 485 | 1170 | 2417       |
| QTHS-180S/C-135-F3-OP-MH | 4273 | 2511 | 1762 | 745 | 230 | 142,5 | 942,5 | 110 | 255 | 485 | 1170 | 2417       |
| QTHS-180S/C-150-F1-OP-MH | 4280 | 2511 | 1769 | 745 | 230 | 142,5 | 947,5 | 105 | 255 | 495 | 1180 | 2445       |
| QTHS-180S/C-150-F2-OP-MH | 4280 | 2511 | 1769 | 745 | 230 | 142,5 | 947,5 | 105 | 255 | 495 | 1180 | 2445       |
| QTHS-180S/C-150-F3-OP-MH | 4280 | 2511 | 1769 | 745 | 230 | 142,5 | 947,5 | 105 | 255 | 495 | 1180 | 2445       |
| QTHS-180S/C-175-F1-OP-MH | 4283 | 2511 | 1772 | 745 | 230 | 142,5 | 952,5 | 100 | 255 | 505 | 1190 | 2459       |
| QTHS-180S/C-175-F2-OP-MH | 4283 | 2511 | 1772 | 745 | 230 | 142,5 | 952,5 | 100 | 255 | 505 | 1190 | 2459       |
| QTHS-180S/C-175-F3-OP-MH | 4283 | 2511 | 1772 | 745 | 230 | 142,5 | 952,5 | 100 | 255 | 505 | 1190 | 2459       |
| QTHS-180S/C-200-F1-OP-MH | 4283 | 2511 | 1772 | 745 | 230 | 142,5 | 952,5 | 100 | 255 | 505 | 1190 | 2475       |
| QTHS-180S/C-200-F2-OP-MH | 4283 | 2511 | 1772 | 745 | 230 | 142,5 | 952,5 | 100 | 255 | 505 | 1190 | 2475       |
| QTHS-180S/C-200-F3-OP-MH | 4283 | 2511 | 1772 | 745 | 230 | 142,5 | 952,5 | 100 | 255 | 505 | 1190 | 2475       |
| QTHS-180S/C-235-F1-OP-MH | 4286 | 2511 | 1775 | 745 | 230 | 142,5 | 955   | 98  | 255 | 510 | 1195 | 2490       |
| QTHS-180S/C-235-F2-OP-MH | 4286 | 2511 | 1775 | 745 | 230 | 142,5 | 955   | 98  | 255 | 510 | 1195 | 2490       |
| QTHS-180S/C-235-F3-OP-MH | 4286 | 2511 | 1775 | 745 | 230 | 142,5 | 955   | 98  | 255 | 510 | 1195 | 2490       |
| QTHS-180S/C-280-F1-OP-MH | 4293 | 2511 | 1782 | 745 | 230 | 142,5 | 962,5 | 90  | 255 | 525 | 1210 | 2520       |
| QTHS-180S/C-280-F2-OP-MH | 4293 | 2511 | 1782 | 745 | 230 | 142,5 | 962,5 | 90  | 255 | 525 | 1210 | 2520       |
| QTHS-180S/C-280-F3-OP-MH | 4293 | 2511 | 1782 | 745 | 230 | 142,5 | 962,5 | 90  | 255 | 525 | 1210 | 2520       |
| QTHS-180S/C-280-F3-OP    | 4293 | 2511 | 1782 | 745 | 230 | 143   | 370   | 90  | 255 | 355 | 1040 | 2490       |

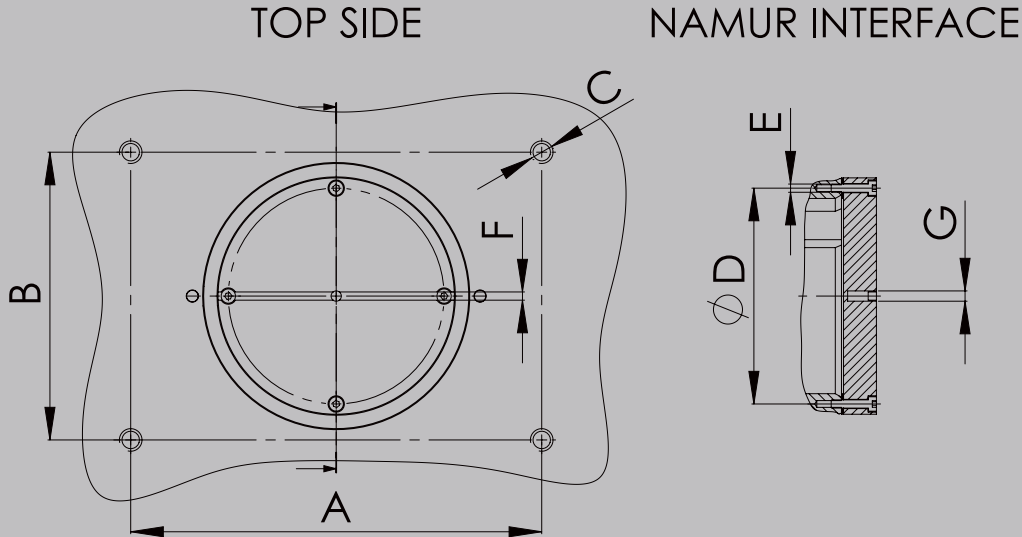




# HOUSING MOUNTING HOLES AND INTERFACE



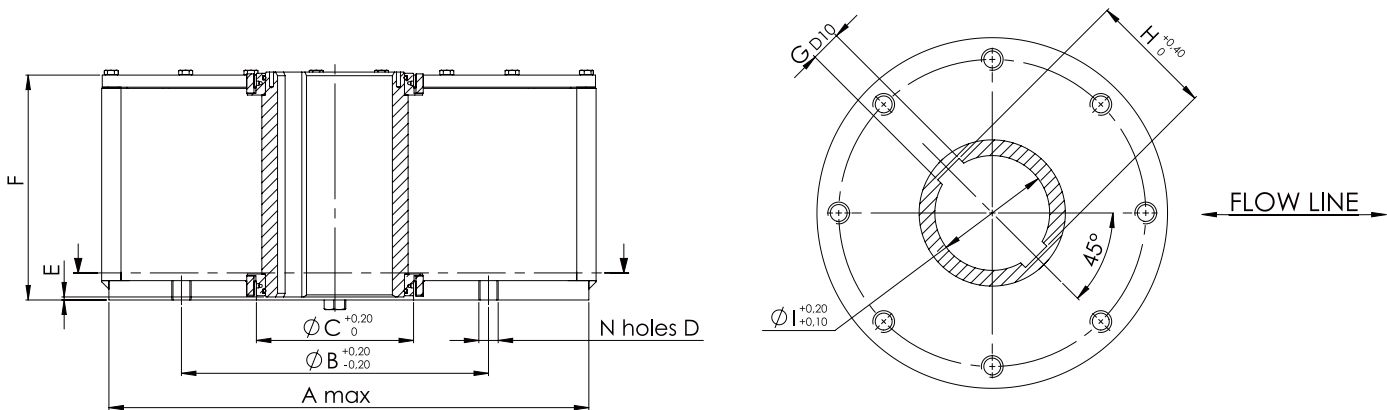
## COVER AND YOKE MOUNTING HOLES



| Model Size | A   | B   | C       | D     | E      | F | G  |
|------------|-----|-----|---------|-------|--------|---|----|
| 10         | 200 | 140 | N.4 M10 | 105   | N.4 M4 | 4 | M6 |
| 16         | 230 | 170 | N.4 M10 | 132.5 | N.4 M5 | 4 | M6 |
| 30         | 240 | 180 | N.4 M10 | 174   | N.4 M6 | 4 | M6 |
| 60         | 300 | 270 | N.4 M12 | 216   | N.4 M6 | 4 | M6 |
| 120        | 300 | 270 | N.4 M12 | 240   | N.4 M6 | 4 | M6 |
| 180        | 310 | 290 | N.4 M12 | 240   | N.4 M6 | 4 | M6 |

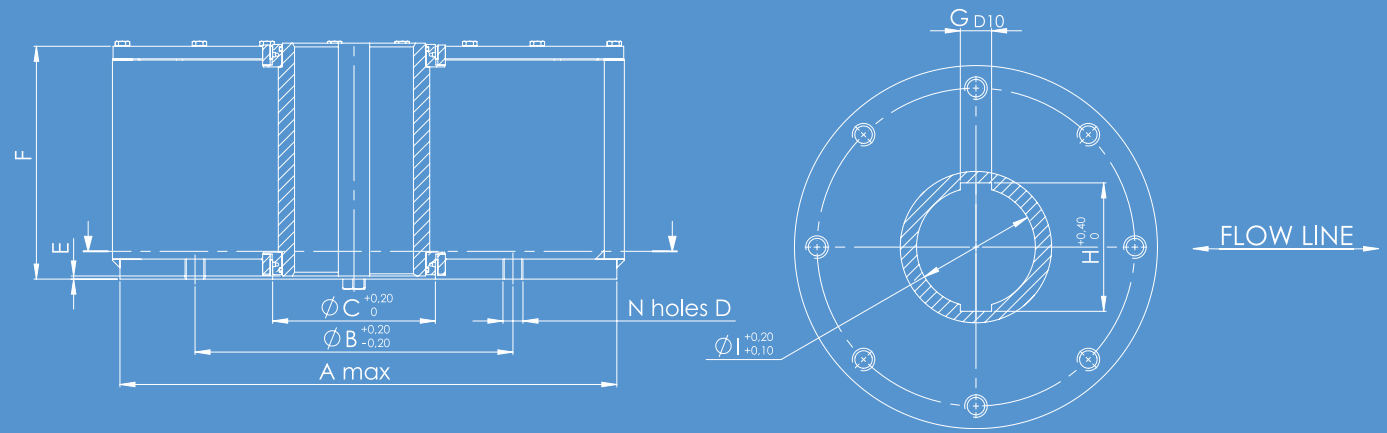


# COUPLING DIMENSIONS FOR MODELS 10-60



| Model Size | A   | B   | C   | D       | E | F   | G  | H     | I   |
|------------|-----|-----|-----|---------|---|-----|----|-------|-----|
| 10         | 300 | 254 | 130 | N.8 M16 | 3 | 186 | 25 | 102.6 | 95  |
| 16         | 350 | 298 | 165 | N.8 M20 | 3 | 215 | 32 | 128.8 | 120 |
| 30         | 415 | 356 | 210 | N.8 M30 | 3 | 252 | 32 | 174.8 | 160 |
| 60         | 520 | 406 | 260 | N.8 M36 | 3 | 312 | 32 | 209.8 | 195 |

# COUPLING DIMENSIONS FOR MODELS 120-180



| Model Size | A   | B   | C   | D        | E | F   | G  | H     | I   |
|------------|-----|-----|-----|----------|---|-----|----|-------|-----|
| 120        | 560 | 483 | 250 | N.12 M36 | 5 | 394 | 45 | 195.8 | 175 |
| 180        | 680 | 603 | 285 | N.20 M36 | 5 | 418 | 45 | 220.8 | 200 |

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