

WE CONTROL THE FLOW

Elite provides comprehensive Valve, Automation Packages, and Instrumentation solutions for all industrial applications, ensuring optimal control of fluid flow with our expertise: "We control the flow."



Elite Flow Control USA LL
www.eliteflowusa.com

COMPANY PROFILE

Elite provides comprehensive Valve, Automation Packages, and Instrumentation solutions for all industrial applications, ensuring optimal control of fluid flow with our expertise: "We control the flow."

Elite Flow Control is one of the leading and renowned brand of Valves having its own independent manufacturing facilities and global existence in the United States of America, United Kingdom and China.

Our design and manufacturing range includes Ball Valves, Gate Valves, Globe Valves, Check Valves, Plug Valves, Butterfly Valves, Control Valves, Actuated Valves, and have a dedicated PTFE / PFA lining facility for PTFE / PFA Lined Valves, Pipe Spools, Pipe fittings, and associated equipment for high corrosive/chemical applications.

MISSION

ELITE FLOW CONTROL FOCUSED TO PROVIDE THE SUPERIOR QUALITY VALVES AT COMPETITIVE PRICES TO ITS CUSTOMERS AROUND THE WORLD BY UTILIZING THE COMPANY'S HUMAN RESOURCES AND ADVANCED TECHNOLOGY EQUIPMENT WITH THE STRONG COMMITMENT TO R&D, HEALTH, SAFETY, ENVIRONMENT AND COMPANY'S CORE VALUES.

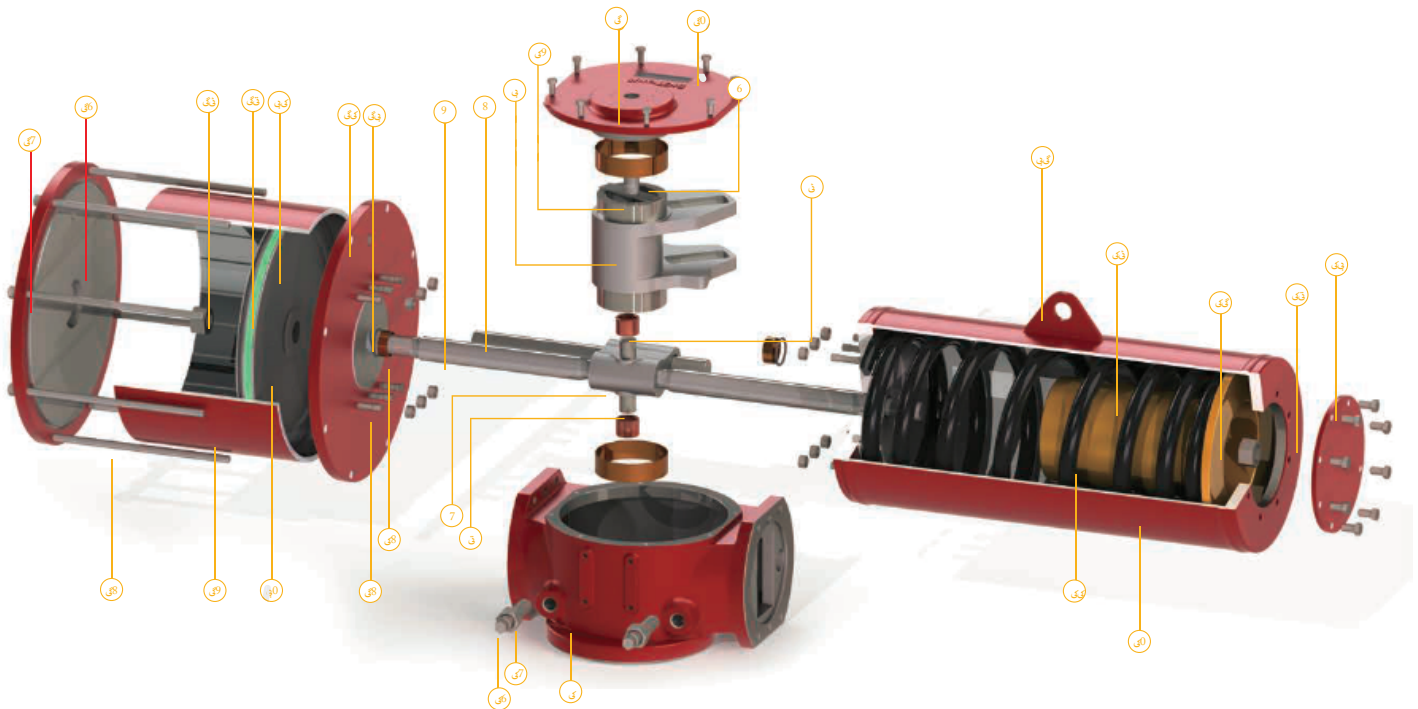
VISION

TO MAKE OUR BRAND "THE FIRST CHOICE OF CUSTOMERS".

Elite Philosophy

Elite operates on philosophy to provide Immediate Response, Excellent Quality Services, Quick Delivery and Customer Satisfaction followed by our Core Values "What we commit, we deliver" based on this we are having satisfied customers in more than 25 countries and ever expanding throughout the world.

Parts and Material List – Pneumatic Actuator



- | | | | |
|--|---|--|--|
| 1 Centre Body Ductile Iron | 9 Connecting Rod Alloy Steel (Chromium Plated) | 17 Nut Carbon Steel | 25 Nut Carbon Steel |
| 2 Centre Body Cover Ductile Iron | 10 Spring Cartridge Carbon Steel | 18 Rob Bushing Composites | 26 End Flange Carbon Steel |
| 3 Yoke Carbon Steel | 11 Spring Base Carbon Steel | 19 Accessory-Mounted Shaft Stainless Steel | 27 Nut Carbon Steel |
| 4 Bearing Bearing Steel | 12 Stop Screw Carbon Steel | 20 Hexagon Bolt Carbon Steel | 28 Stud Bolt Carbon Steel |
| 5 Sliding Busing Bearing Steel | 13 Hexagon Bolt Carbon Steel | 21 Inner Cover Stainless Steel | 29 Cylinder Carbon Steel (inside nickel-plated) |
| 6 Oilless Bearing Composites | 14 Spring Cover Carbon Steel | 22 Oilless Bearing Composites | 30 Piston Ductile Iron |
| 7 Sliding Block Carbon Steel | 15 Spring Alloy Steel | 23 O-ring NBR | 31 Guiding Ring Composites |
| 8 Thrust Bar Ally Steel (Chromium Plated) | 16 Adjustable Bolt Carbon Steel | 24 O-ring NBR | 32 Lifting Point Carbon Steel |

Corrosion Protection Class

| Corrosion Level | Undercoat | | | Topcoat | | | Durability |
|--|-----------|----------------|---------------|--------------|----------------|---------------|------------|
| | Type | Coating Number | Thickness(μm) | Type | Coating Number | Thickness(μm) | |
| Moderate corrosion-C3 | Epoxy | 1 | 60 | Polyurethane | 2-3 | 120 | L/M/H |
| Strong corrosion-C4 | Epoxy | 1 | 60 | Polyurethane | 2-4 | 160 | L/M/H |
| Extreme corrosion (Industrial-grade)C5-1 | Epoxy | 1-2 | 80 | Polyurethane | 3-4 | 240 | L/M/H |
| Extreme corrosion (Marine-grade)C5-M | Epoxy | 1-2 | 80 | Polyurethane | 3-4 | 320 | L/M/H |

Paint is applied on the basis of the operating environments and service life of BG range actuators. The above chart is in accordance with corrosion protection standard ISO12944.

Sizing of Actuators and Torque Characteristics

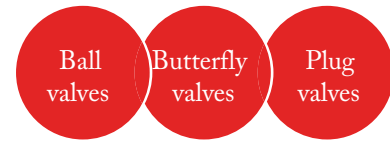
Steps to Select Valve Actuators

First, Identify the valve type for actuators sizing:

Elite recommend that the valve manufacturers offer the torque values of valves operating at six positions before sizing actuators.

If there is only one given torque value at valve start position, check the first actuator (see the torque output chart) whose starting torque output at required air supply meets or exceeds the given value, and calculate the torque values at other five positions.

According to the torque output chart, select appropriate actuator whose torque outputs exceed the valve torque at all positions.



Sample of Actuator Sizing:

To size an actuator meeting a given start torque 960Nm of a ball valve, check the first size that generates more than 960Nm in the six positions of the torque table. According to the data of Spring-Return Actuator Torque Table, GI-P300SR5 supplies more torque than 960Nm. This is suitable to operate the ball valve.

| BTO (0°) | RTO (45°) | ETO (90°) | BTC (90°) | RTC (45°) | ETC (0°) |
|----------|-----------|-----------|-----------|-----------|----------|
| 960 | 960x0.6 | 960x0.8 | 960x0.7 | 960x0.6 | 960x0.9 |
| 2081 | 971 | 1316 | 2131 | 1000 | 1366 |
| 2.1 | 1.7 | 1.7 | 2.7 | 1.7 | 1.6 |

Notes:

Opening direction: Break to open (BTO), Running to open (RTO), End to open (ETO)

Closing direction: Break to close (BTC), Running to close (RTC), End to close (ETC)

Safety factors: 1.25 to 1.5 (25% to 50%)

If the first found actuator does not exceed the stem torque, check the next size actuator.

Torque Coefficient in Different Positions

| Valve Type | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) |
|-----------------------------------|---------|----------|----------|----------|----------|---------|
| Floating ball valve | 1.0 | 0.6 | 0.8 | 0.8 | 0.6 | 0.9 |
| Trunnion mounted ball valves | 1.0 | 0.55 | 0.7 | 0.75 | 0.55 | 0.85 |
| Triple-eccentric butterfly valves | 1.0 | 0.35 | 0.3 | 0.45 | 0.35 | 0.85 |
| Plug valves | 1.0 | 0.5 | 0.8 | 0.8 | 0.5 | 0.95 |

Contact Elite for actuator sizing of the other valves that are not covered by our standard range.

Torque Output Characteristics

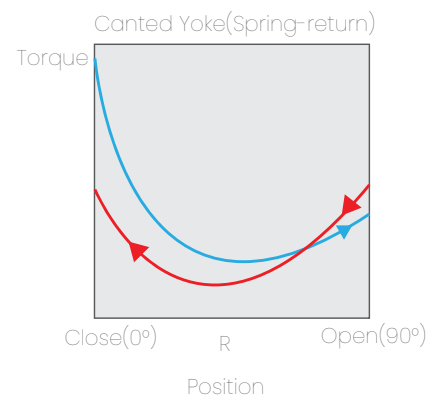
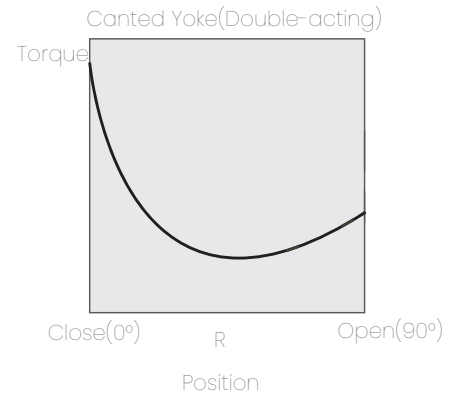
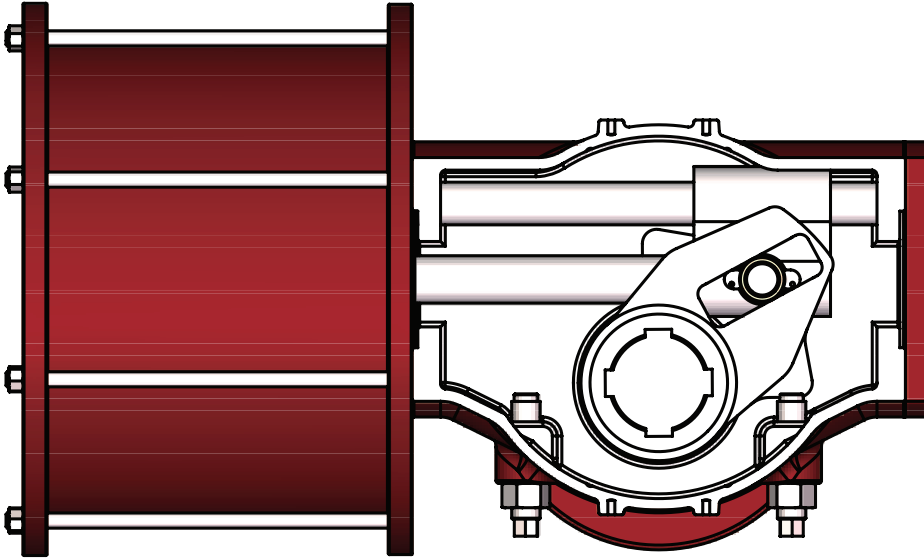
Elite actuators can be provided with either symmetrical or canted torque arms, which helps valves meet a wide range of torque.

The symmetric yoke construction is commonly used for all types of valves.

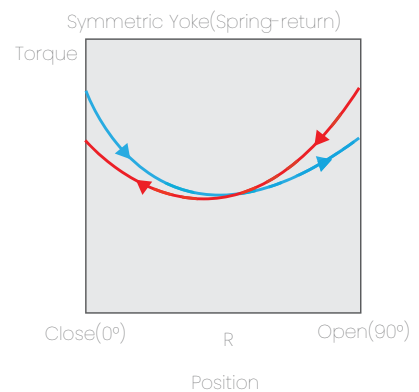
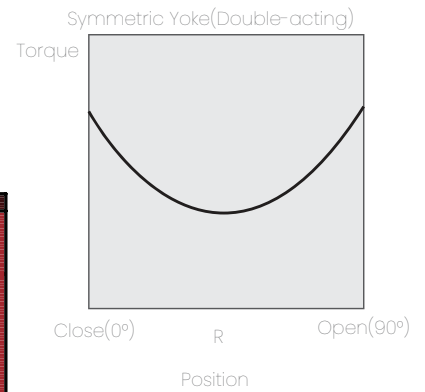
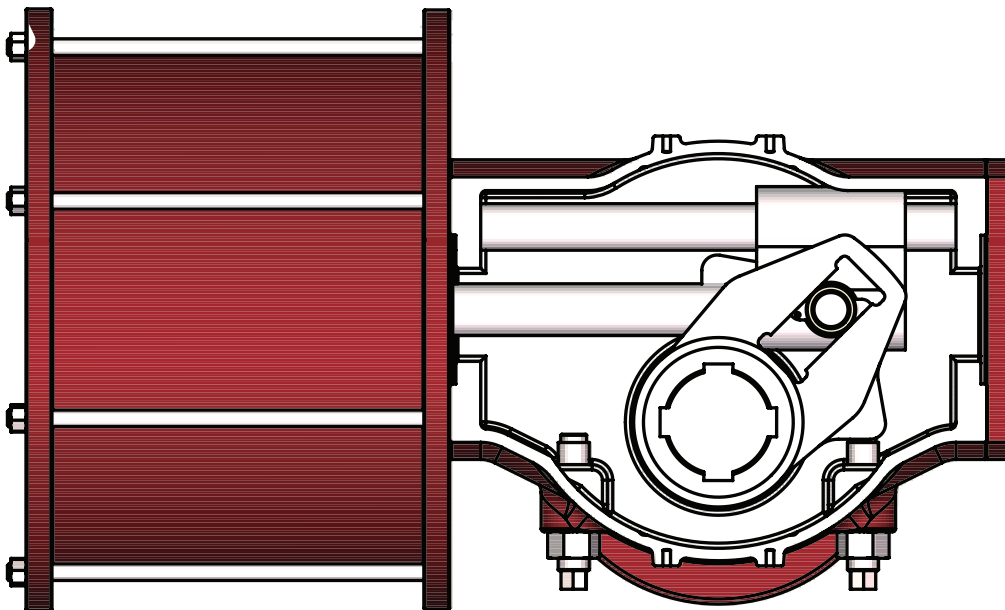
The canted yoke construction delivers peak torque when opening valves but less torque when closing, suitable for butterfly valves.

The use of canted yoke can help customers reduce costs by its unique torque characteristics.

Canted Yoke - Torque Output Profiles

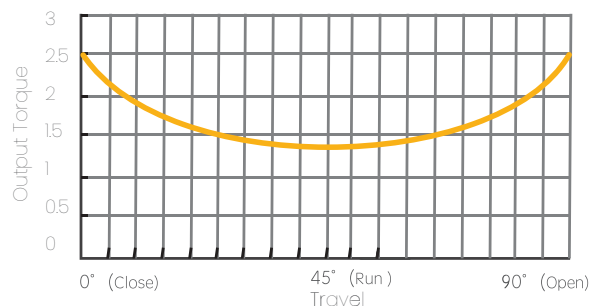


Symmetric Yoke - Torque Output Profiles



BTS-G Range Pneumatic Actuators

Double Acting torque output
Symmetric Yoke Configuration

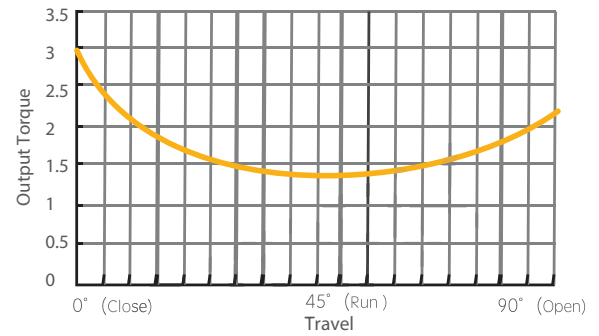


| Actuator Model | Torque outputs at different air supply pressure (Unit:Nm) | | | | | | | | | | | |
|----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 3 barG | | | 4 barG | | | 5 barG | | | 6 barG | | |
| | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| G04-P105 | 199 | 114 | 199 | 266 | 152 | 266 | 332 | 190 | 332 | 398 | 228 | 398 |
| G04-P125 | 291 | 166 | 291 | 388 | 222 | 388 | 485 | 277 | 485 | | | |
| G05-P125 | 352 | 202 | 352 | 470 | 269 | 470 | 587 | 336 | 587 | 705 | 403 | 705 |
| G05-P160 | 450 | 257 | 450 | 600 | 343 | 600 | 750 | 429 | 750 | 899 | 514 | 899 |
| G0-P180 | 549 | 314 | 549 | 732 | 419 | 732 | 915 | 523 | 915 | 1098 | 628 | 1098 |
| G0-P200 | 683 | 391 | 683 | 911 | 521 | 911 | 1139 | 651 | 1139 | | | |
| G1-P200 | 996 | 569 | 996 | 1328 | 759 | 1328 | 1660 | 949 | 1660 | 1992 | 1139 | 1992 |
| G1-P250 | 1556 | 890 | 1556 | 2075 | 1186 | 2075 | 2593 | 1483 | 2593 | | | |
| G1-P300 | 2241 | 1281 | 2241 | 2987 | 1708 | 2987 | | | | | | |
| G2-P300 | 2930 | 1675 | 2930 | 3907 | 2234 | 3907 | 4883 | 2792 | 4883 | | | |
| G2-P350 | 3988 | 2280 | 3988 | 5317 | 3041 | 5317 | | | | | | |
| G3-P350 | 4457 | 2549 | 4457 | 5943 | 3398 | 5943 | 7429 | 4248 | 7429 | 8914 | 5098 | 8914 |
| G3-P400 | 5822 | 3329 | 5822 | 7762 | 4439 | 7762 | 9703 | 5548 | 9703 | | | |
| G3-P450 | 7368 | 4213 | 7368 | 9824 | 5618 | 9824 | | | | | | |
| G4-P450 | 8454 | 4834 | 8454 | 11272 | 6446 | 11272 | 14090 | 8057 | 14090 | 16908 | 9668 | 16908 |
| G4-P500 | 10437 | 5968 | 10437 | 13916 | 7958 | 13916 | 17395 | 9947 | 17395 | | | |
| G4-P550 | 12629 | 7221 | 12629 | 16838 | 9629 | 16838 | | | | | | |
| G5-P500 | 13884 | 7939 | 13884 | 18512 | 10586 | 18512 | 23140 | 13232 | 23140 | 27768 | 15879 | 27768 |
| G5-P550 | 16800 | 9607 | 16800 | 22399 | 12809 | 22399 | 27999 | 16011 | 27999 | 33599 | 19213 | 33599 |
| G5-P600 | 19993 | 11433 | 19993 | 26657 | 15243 | 26657 | 33321 | 19054 | 33321 | | | |
| G5-P2500 | 27768 | 15879 | 27768 | 37024 | 21171 | 37024 | | | | | | |
| G7-P600 | 24129 | 13798 | 24129 | 32172 | 18397 | 32172 | 40215 | 22997 | 40215 | 48259 | 27596 | 48259 |
| G7-P700 | 32843 | 18781 | 32843 | 43790 | 25041 | 43790 | 54738 | 31301 | 54738 | 65685 | 37561 | 65685 |
| G7-P2500 | 33513 | 19164 | 33513 | 44684 | 25552 | 44684 | 55855 | 31940 | 55855 | 67026 | 38328 | 67026 |
| G7-P750 | 37702 | 21559 | 37702 | 50269 | 28746 | 50269 | 62837 | 35932 | 62837 | 75404 | 43119 | 75404 |
| G7-P2550 | 40551 | 23188 | 40551 | 54067 | 30918 | 54067 | 67584 | 38647 | 67584 | | | |
| G7-P800 | 42896 | 24530 | 42896 | 57195 | 32706 | 57195 | 71494 | 40883 | 71494 | | | |
| G8-P2550 | 48197 | 27561 | 48197 | 64263 | 36748 | 64263 | 80329 | 45935 | 80329 | 96395 | 55122 | 96395 |
| G8-P800 | 50986 | 29155 | 50986 | 67981 | 38874 | 67981 | 84976 | 48592 | 84976 | 101971 | 58311 | 101971 |
| G8-P850 | 57558 | 32914 | 57558 | 76744 | 43885 | 76744 | 95930 | 54856 | 95930 | 115116 | 65827 | 115116 |
| G8-P2600 | 57359 | 32800 | 57359 | 76478 | 43733 | 76478 | 95598 | 54666 | 95598 | 114717 | 65599 | 114717 |
| G8-P900 | 64529 | 36900 | 64529 | 86038 | 49200 | 86038 | 107548 | 61499 | 107548 | 129057 | 73799 | 129057 |
| G8-P2650 | 67317 | 38494 | 67317 | 89756 | 51325 | 89756 | 112195 | 64157 | 112195 | 134634 | 76988 | 134634 |
| G8-P2700 | 78072 | 44644 | 78072 | 104095 | 59525 | 104095 | 130119 | 74407 | 130119 | | | |
| G8-P1000 | 79665 | 45555 | 79665 | 106220 | 60740 | 106220 | 132775 | 75925 | 132775 | | | |
| G9-P900 | 83763 | 47899 | 83763 | 111684 | 63865 | 111684 | 139605 | 79831 | 139605 | 167526 | 95797 | 167526 |
| G9-P2700 | 101343 | 57951 | 101343 | 135124 | 77268 | 135124 | 168905 | 96586 | 168905 | 202686 | 115903 | 202686 |
| G9-P1000 | 103411 | 59134 | 103411 | 137882 | 78845 | 137882 | 172352 | 98557 | 172352 | 206822 | 118268 | 206822 |
| G9-P1100 | 125128 | 71552 | 125128 | 166837 | 95403 | 166837 | 208546 | 119254 | 208546 | 250255 | 143104 | 250255 |
| G9-P2800 | 132366 | 75692 | 132366 | 176488 | 100922 | 176488 | 220611 | 126153 | 220611 | 264733 | 151383 | 264733 |
| G9-P2900 | 167526 | 95797 | 167526 | 223368 | 127730 | 223368 | 279210 | 159662 | 279210 | | | |
| G10-P1200 | 193034 | 110384 | 193034 | 257379 | 147178 | 257379 | 321724 | 183973 | 321724 | 386068 | 220767 | 386068 |
| G10-P1300 | 226547 | 129547 | 226547 | 302063 | 172730 | 302063 | 377578 | 215912 | 377578 | 453094 | 259095 | 453094 |
| G10-P21100 | 324405 | 185506 | 324405 | 432540 | 247341 | 432540 | 540675 | 309176 | 540675 | | | |
| G10-P21200 | 386068 | 220767 | 386068 | 514758 | 294356 | 514758 | | | | | | |

Note: 0° is BTO and ETC, 45° is RTO and RTC, 90 is ETO and BTC.

BTS-GC Range Pneumatic Actuators

Double-acting torque output
Canted yoke configuration

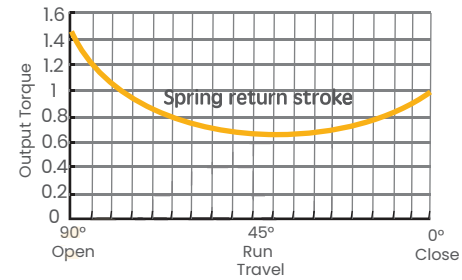
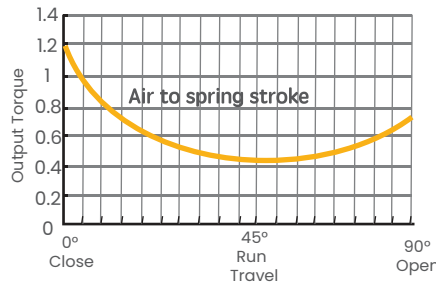


| Actuator Model | Torque outputs at different air supply pressure (Unit:Nm) | | | | | | | | | | | |
|----------------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | 3 barG | | | 4 barG | | | 5 barG | | | 6 barG | | |
| | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| GC0-P180 | 691 | 323 | 485 | 921 | 431 | 647 | 1151 | 539 | 809 | | | |
| GC0-P200 | 853 | 399 | 599 | 1137 | 532 | 799 | 1421 | 665 | 998 | | | |
| GC1-P200 | 1205 | 564 | 846 | 1607 | 752 | 1129 | 2008 | 940 | 1411 | 2410 | 1127 | 1693 |
| GC1-P250 | 1883 | 881 | 1323 | 2510 | 1174 | 1763 | 3138 | 1468 | 2204 | | | |
| GC1-P300 | 2711 | 1268 | 1904 | | | | | | | | | |
| GC2-P300 | 3545 | 1659 | 2490 | 4727 | 2212 | 3321 | | | | | | |
| GC2-P350 | 4826 | 2258 | 3390 | | | | | | | | | |
| GC3-P350 | 5393 | 2523 | 3789 | 7191 | 3364 | 5052 | 8989 | 4205 | 6314 | | | |
| GC3-P400 | 7044 | 3296 | 4948 | 9392 | 4394 | 6598 | | | | | | |
| GC3-P450 | 8915 | 4171 | 6263 | | | | | | | | | |
| GC4-P450 | 10229 | 4786 | 7186 | 13639 | 6381 | 9581 | 17049 | 7976 | 11976 | | | |
| GC4-P500 | 12629 | 5908 | 8871 | 16838 | 7878 | 11828 | | | | | | |
| GC4-P550 | 15281 | 7149 | 10734 | | | | | | | | | |
| GC5-P500 | 16800 | 7860 | 11801 | 22399 | 10480 | 15735 | 27999 | 13100 | 19669 | 33599 | 15720 | 23603 |
| GC5-P550 | 20327 | 9510 | 14280 | 27103 | 12681 | 19039 | 33879 | 15851 | 23799 | 40655 | 19021 | 28559 |
| GC5-P600 | 24191 | 11318 | 16994 | 32255 | 15091 | 22659 | 40319 | 18864 | 28323 | | | |
| GC5-P2500 | 33599 | 15720 | 23603 | | | | | | | | | |
| GC7-P600 | 29196 | 13660 | 20510 | 38929 | 18213 | 27347 | 48661 | 22767 | 34183 | 58393 | 27320 | 41020 |
| GC7-P700 | 39740 | 18593 | 27916 | 52986 | 24790 | 37222 | 66233 | 30988 | 46527 | 79479 | 37185 | 55832 |
| GC7-P2500 | 40551 | 18972 | 28486 | 54067 | 25296 | 37981 | 67584 | 31620 | 47477 | 81101 | 37944 | 56972 |
| GC7-P750 | 45619 | 21344 | 32047 | 60826 | 28458 | 42729 | 76032 | 35573 | 53411 | | | |
| GC7-P2550 | 49066 | 22956 | 34468 | 65422 | 30608 | 45957 | | | | | | |
| GC7-P800 | 51905 | 24284 | 36462 | 69206 | 32379 | 48616 | | | | | | |
| GC8-P2550 | 58319 | 27285 | 40968 | 77758 | 36380 | 54624 | 97198 | 45475 | 68279 | 116637 | 54570 | 81935 |
| GC8-P800 | 61693 | 28864 | 43338 | 82257 | 38485 | 57784 | 102821 | 48106 | 72230 | 123385 | 57727 | 86675 |
| GC8-P850 | 69645 | 32584 | 48924 | 92860 | 43446 | 65232 | 116075 | 54307 | 81540 | 139290 | 65169 | 97848 |
| GC8-P2600 | 69404 | 32472 | 48755 | 92539 | 43296 | 65007 | 115673 | 54119 | 81258 | 138808 | 64943 | 97510 |
| GC8-P900 | 78080 | 36531 | 54849 | 104106 | 48708 | 73132 | 130133 | 60884 | 91415 | | | |
| GC8-P2650 | 81453 | 38109 | 57219 | 108605 | 50812 | 76292 | 135756 | 63515 | 95366 | | | |
| GC8-P2700 | 94467 | 44198 | 66361 | 125956 | 58930 | 88481 | | | | | | |
| GC8-P1000 | 96395 | 45100 | 67715 | 128526 | 60133 | 90287 | | | | | | |
| GC9-P900 | 101353 | 47420 | 71199 | 135138 | 63226 | 94931 | 168922 | 79033 | 118664 | 202707 | 94839 | 142397 |
| GC9-P2700 | 122625 | 57372 | 86142 | 163500 | 76496 | 114855 | 204375 | 95620 | 143569 | 245250 | 114744 | 172283 |
| GC9-P1000 | 125128 | 58543 | 87900 | 166837 | 78057 | 117199 | 208546 | 97571 | 146499 | 250255 | 117085 | 175799 |
| GC9-P1100 | 151404 | 70837 | 106358 | 201872 | 94449 | 141811 | 252341 | 118061 | 177264 | | | |
| GC9-P2800 | 160163 | 74935 | 112511 | 213551 | 99913 | 150015 | 266939 | 124891 | 187519 | | | |
| GC9-P2900 | 202707 | 94839 | 142397 | 270275 | 126452 | 189863 | | | | | | |
| GC10-P1200 | 233571 | 109280 | 164079 | 311429 | 145706 | 218772 | 389286 | 182133 | 273465 | 467143 | 218559 | 328158 |
| GC10-P1300 | 274122 | 128252 | 192565 | 365496 | 171003 | 256753 | 456870 | 213753 | 320942 | 548244 | 256504 | 385130 |
| GC10-P21100 | 392530 | 183651 | 275744 | 523373 | 244868 | 367659 | | | | | | |
| GC10-P21200 | 467143 | 218559 | 328158 | | | | | | | | | |

Note: 0° is BTO and ETC, 45° is RTO and RTC, 90 is ETO and BTC.

BTS-G Range Pneumatic Actuators

Spring-return torque output
Symmetric yoke configuration



Spring Return Fail Close (FC)

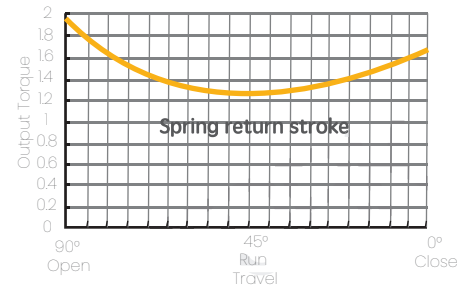
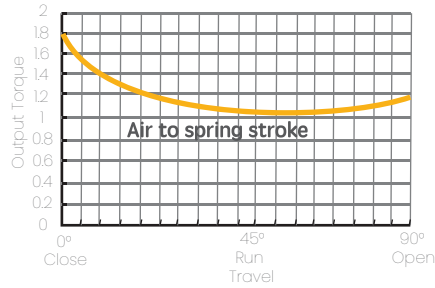
| Actuator model | Spring-return torque | | | Torque outputs at different air supply pressure (Unit:Nm) | | | | | | | | |
|----------------|----------------------|----------|---------|---|----------|----------|---------|----------|----------|---------|----------|----------|
| | | | | 4 bar | | | 5 bar | | | 6 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| G04-P105 SR4 | 173 | 79 | 101 | 162 | 72 | 90 | 227 | 109 | 155 | 293 | 147 | 221 |
| G04-P105 SR5 | 234 | 103 | 125 | 140 | 49 | 31 | 207 | 87 | 98 | 273 | 125 | 164 |
| G04-P105 SR6 | 272 | 122 | 153 | | | | 179 | 68 | 59 | 245 | 106 | 126 |
| G04-P125 SR4 | 258 | 115 | 144 | 240 | 105 | 126 | 336 | 160 | 222 | 432 | 214 | 318 |
| G04-P125 SR5 | 306 | 141 | 187 | 201 | 81 | 81 | 298 | 136 | 178 | 395 | 192 | 275 |
| G04-P125 SR6 | 352 | 166 | 228 | | | | 256 | 111 | 133 | 353 | 167 | 230 |
| G05-P125 SR4 | 348 | 151 | 178 | 291 | 118 | 122 | 409 | 185 | 239 | 526 | 253 | 357 |
| G05-P125 SR5 | 408 | 182 | 229 | 240 | 86 | 62 | 358 | 154 | 179 | 475 | 221 | 297 |
| G05-P125 SR6 | 465 | 213 | 280 | | | | 307 | 123 | 122 | 424 | 190 | 240 |
| G05-P160 SR4 | 489 | 223 | 292 | 503 | 232 | 307 | 702 | 345 | 506 | 901 | 459 | 704 |
| G05-P160 SR5 | 682 | 299 | 365 | 430 | 155 | 114 | 629 | 269 | 313 | 828 | 383 | 511 |
| G05-P160 SR6 | 778 | 354 | 459 | | | | 535 | 215 | 217 | 734 | 329 | 416 |
| G0-P180 SR4 | 480 | 224 | 304 | 428 | 195 | 253 | 611 | 299 | 436 | 795 | 404 | 619 |
| G0-P180 SR5 | 582 | 275 | 381 | 352 | 143 | 150 | 535 | 248 | 333 | 718 | 353 | 516 |
| G0-P180 SR6 | 705 | 336 | 470 | | | | 446 | 188 | 211 | 629 | 292 | 394 |
| G0-P200 SR4 | 582 | 275 | 381 | 530 | 246 | 329 | 758 | 376 | 556 | 986 | 506 | 784 |
| G0-P200 SR5 | 705 | 336 | 470 | 441 | 185 | 206 | 669 | 315 | 434 | 896 | 445 | 662 |
| G0-P200 SR6 | 822 | 403 | 587 | | | | 551 | 248 | 316 | 779 | 378 | 544 |
| G1-P200 SR4 | 797 | 380 | 531 | 797 | 380 | 531 | 1129 | 569 | 863 | 1461 | 759 | 1195 |
| G1-P200 SR5 | 996 | 475 | 664 | 664 | 285 | 332 | 996 | 475 | 664 | 1328 | 664 | 996 |
| G1-P200 SR6 | 1345 | 622 | 830 | | | | 830 | 327 | 315 | 1162 | 517 | 647 |
| G1-P250 SR4 | 1345 | 622 | 830 | 1245 | 565 | 730 | 1763 | 861 | 1248 | 2282 | 1158 | 1767 |
| G1-P250 SR5 | 1763 | 832 | 1146 | 928 | 354 | 311 | 1447 | 651 | 830 | 1965 | 948 | 1348 |
| G1-P250 SR6 | 1815 | 890 | 1297 | | | | 1297 | 593 | 778 | 1815 | 890 | 1297 |
| G1-P300 SR4 | 1763 | 832 | 1146 | 1841 | 876 | 1224 | 2588 | 1303 | 1971 | 3335 | 1730 | 2718 |
| G1-P300 SR5 | 2308 | 1083 | 1480 | 1508 | 625 | 679 | 2255 | 1052 | 1426 | 3002 | 1479 | 2173 |
| G1-P300 SR6 | 2614 | 1281 | 1867 | | | | 1867 | 854 | 1120 | 2614 | 1281 | 1867 |
| G2-P300 SR4 | 2336 | 1114 | 1560 | 2346 | 1120 | 1571 | 3323 | 1679 | 2548 | 4300 | 2237 | 3524 |
| G2-P300 SR5 | 3218 | 1501 | 2032 | 1875 | 733 | 689 | 2851 | 1291 | 1665 | 3828 | 1850 | 2642 |
| G2-P300 SR6 | 4061 | 1883 | 2526 | | | | 2358 | 909 | 823 | 3334 | 1468 | 1799 |
| G2-P350 SR4 | 3218 | 1501 | 2032 | 3285 | 1540 | 2099 | 4615 | 2300 | 3429 | 5944 | 3060 | 4758 |
| G2-P350 SR5 | 4061 | 1883 | 2526 | 2792 | 1158 | 1257 | 4121 | 1918 | 2586 | 5450 | 2678 | 3916 |
| G2-P350 SR6 | 4701 | 2240 | 3134 | | | | 3513 | 1561 | 1946 | 4842 | 2321 | 3275 |
| G3-P350 SR4 | 3670 | 1729 | 2377 | 3566 | 1669 | 2273 | 5052 | 2519 | 3759 | 6537 | 3369 | 5245 |
| G3-P350 SR5 | 4683 | 2231 | 3120 | 2823 | 1167 | 1260 | 4309 | 2017 | 2745 | 5794 | 2866 | 4231 |
| G3-P350 SR6 | 5979 | 2833 | 3930 | | | | 3499 | 1415 | 1449 | 4985 | 2264 | 2935 |
| G3-P400 SR4 | 4683 | 2231 | 3120 | 4642 | 2208 | 3079 | 6583 | 3317 | 5020 | 8523 | 4427 | 6960 |
| G3-P400 SR5 | 5979 | 2833 | 3930 | 3833 | 1606 | 1783 | 5773 | 2715 | 3723 | 7714 | 3825 | 5664 |
| G3-P400 SR6 | 7268 | 3352 | 4455 | | | | 5248 | 2197 | 2435 | 7189 | 3307 | 4376 |
| G3-P450 SR4 | 5979 | 2833 | 3930 | 5894 | 2785 | 3845 | 8350 | 4189 | 6301 | 10806 | 5593 | 8757 |
| G3-P450 SR5 | 7406 | 3391 | 4455 | 5370 | 2227 | 2418 | 7826 | 3631 | 4874 | 10282 | 5035 | 7330 |

| Actuator model | Spring-return torque | | | Torque outputs at different air supply pressure (Unit:Nm) | | | | | | | | |
|----------------|----------------------|----------|---------|---|----------|----------|---------|----------|----------|---------|----------|----------|
| | | | | 4 bar | | | 5 bar | | | 6 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| G3-P450 SR6 | 9096 | 4335 | 6064 | | | | 6216 | 2687 | 3184 | 8672 | 4092 | 5640 |
| G4-P450 SR4 | 6661 | 3194 | 4509 | 6763 | 3252 | 4611 | 9581 | 4864 | 7429 | 12399 | 6475 | 10247 |
| G4-P450 SR5 | 8217 | 3976 | 5690 | 5582 | 2469 | 3055 | 8400 | 4081 | 5873 | 11218 | 5692 | 8691 |
| G4-P450 SR6 | 9426 | 4548 | 6480 | | | | 7609 | 3509 | 4664 | 10427 | 5120 | 7482 |
| G4-P500 SR4 | 8217 | 3976 | 5690 | 8226 | 3981 | 5699 | 11705 | 5971 | 9178 | 15184 | 7960 | 12657 |
| G4-P500 SR5 | 9426 | 4548 | 6480 | 7435 | 3410 | 4490 | 10914 | 5399 | 7969 | 14393 | 7388 | 11448 |
| G4-P500 SR6 | 12274 | 5801 | 8016 | | | | 9379 | 4146 | 5121 | 12858 | 6135 | 8600 |
| G4-P550 SR4 | 9426 | 4548 | 6480 | 10358 | 5081 | 7412 | 14567 | 7488 | 11622 | 18777 | 9895 | 15831 |
| G4-P550 SR5 | 12274 | 5801 | 8016 | 8823 | 3828 | 4564 | 13032 | 6235 | 8774 | 17242 | 8642 | 12983 |
| G4-P550 SR6 | 14528 | 6875 | 9518 | | | | 11529 | 5160 | 6520 | 15739 | 7568 | 10729 |
| G5-P550 SR4 | 14013 | 6496 | 8706 | 13693 | 6313 | 8387 | 19293 | 9515 | 13987 | 24893 | 12717 | 19586 |
| G5-P550 SR5 | 16736 | 7608 | 9873 | 12526 | 5201 | 5663 | 18126 | 8403 | 11263 | 23726 | 11605 | 16863 |
| G5-P550 SR6 | 21418 | 10273 | 14513 | | | | 13486 | 5738 | 6581 | 19086 | 8940 | 12181 |
| G5-P600 SR4 | 16736 | 7608 | 9873 | 16784 | 7635 | 9921 | 23448 | 11446 | 16585 | 30113 | 15257 | 23249 |
| G5-P600 SR5 | 20802 | 9444 | 12228 | 14429 | 5800 | 5855 | 21093 | 9610 | 12519 | 27758 | 13421 | 19183 |
| G5-P600 SR6 | 27465 | 12684 | 16897 | | | | 16425 | 6371 | 5856 | 23089 | 10181 | 12521 |
| G5-P700 SR4 | 21846 | 10396 | 14513 | 21770 | 10352 | 14437 | 30841 | 15539 | 23508 | 39912 | 20726 | 32579 |
| G5-P700 SR5 | 27465 | 12684 | 16897 | 19387 | 8064 | 8818 | 28457 | 13251 | 17889 | 37528 | 18438 | 26960 |
| G5-P700 SR6 | 30801 | 14463 | 19785 | | | | 25570 | 11472 | 14553 | 34640 | 16659 | 23623 |
| G7-P700 SR4 | 25876 | 12156 | 16640 | 27150 | 12885 | 17914 | 38097 | 19145 | 28862 | 49045 | 25405 | 39809 |
| G7-P700 SR5 | 31847 | 15366 | 21895 | 21895 | 9675 | 11943 | 32843 | 15935 | 22890 | 43790 | 22195 | 33838 |
| G7-P700 SR6 | 42429 | 19564 | 25998 | | | | 28740 | 11737 | 12309 | 39687 | 17997 | 23257 |
| G7-P800 SR4 | 31847 | 15366 | 21895 | 35300 | 17340 | 25348 | 49599 | 25517 | 39647 | 63898 | 33693 | 53946 |
| G7-P800 SR5 | 42429 | 19564 | 25998 | 31197 | 13142 | 14767 | 45496 | 21319 | 29066 | 59795 | 29495 | 43364 |
| G7-P800 SR6 | 51576 | 24060 | 32575 | | | | 38920 | 16823 | 19918 | 53218 | 24999 | 34217 |
| G8-P1000 SR4 | 59453 | 28025 | 38564 | 67656 | 32716 | 46767 | 94211 | 47901 | 73322 | 120766 | 63086 | 99877 |
| G8-P1000 SR5 | 77275 | 35761 | 47799 | 58421 | 24979 | 28945 | 84976 | 40164 | 55500 | 111531 | 55349 | 82055 |
| G8-P1000 SR6 | 92942 | 45555 | 66387 | | | | 66387 | 30370 | 39832 | 92942 | 45555 | 66387 |
| G8-P800 SR4 | 40540 | 19032 | 26024 | 41957 | 19842 | 27440 | 58952 | 29560 | 44435 | 75947 | 39279 | 61431 |
| G8-P800 SR5 | 51942 | 23686 | 30900 | 37080 | 15188 | 16039 | 54076 | 24906 | 33034 | 71071 | 34624 | 50029 |
| G8-P800 SR6 | 60344 | 28280 | 38564 | | | | 46412 | 20313 | 24632 | 63407 | 30031 | 41627 |
| G8-P900 SR4 | 50429 | 23254 | 30900 | 55138 | 25946 | 35609 | 76647 | 38246 | 57118 | 98157 | 50546 | 78628 |
| G8-P900 SR5 | 59453 | 28025 | 38564 | 47474 | 21175 | 26585 | 68984 | 33475 | 48095 | 90493 | 45775 | 69604 |
| G8-P900 SR6 | 77275 | 35761 | 47799 | | | | 59749 | 25739 | 30273 | 81258 | 38039 | 51782 |
| G9-P1000 SR4 | 81236 | 37539 | 50059 | 87823 | 41306 | 56646 | 122293 | 61017 | 91116 | 156763 | 80729 | 125586 |
| G9-P1000 SR5 | 100102 | 46509 | 62564 | 75318 | 32336 | 37780 | 109788 | 52048 | 72250 | 144259 | 71759 | 106720 |
| G9-P1000 SR6 | 125128 | 57242 | 75077 | | | | 97275 | 41315 | 47224 | 131746 | 61026 | 81695 |
| G9-P1100 SR4 | 100102 | 46509 | 62564 | 104273 | 48894 | 66735 | 145982 | 72745 | 108444 | 187691 | 96595 | 150153 |
| G9-P1100 SR5 | 125128 | 57242 | 75077 | 91760 | 38161 | 41709 | 133469 | 62012 | 83418 | 175179 | 85863 | 125128 |
| G9-P1100 SR6 | 145982 | 71552 | 104273 | | | | 104273 | 47701 | 62564 | 145982 | 71552 | 104273 |
| G9-P900 SR4 | 65894 | 30416 | 40485 | 71199 | 33449 | 45790 | 99120 | 49415 | 73711 | 127041 | 65382 | 101633 |
| G9-P900 SR5 | 81236 | 37539 | 50059 | 61625 | 26325 | 30448 | 89546 | 42292 | 58369 | 117467 | 58258 | 86290 |
| G9-P900 SR6 | 100102 | 46509 | 62564 | | | | 77041 | 33322 | 39503 | 104962 | 49288 | 67424 |
| G10-P1100 SR4 | 140575 | 61835 | 75694 | 140575 | 61835 | 75694 | 194643 | 92753 | 129762 | 248710 | 123670 | 183829 |
| G10-P1100 SR5 | 162202 | 74202 | 97321 | 118948 | 49468 | 54067 | 173016 | 80386 | 108135 | 227083 | 111303 | 162202 |
| G10-P1100 SR6 | 189236 | 89661 | 124355 | | | | 145982 | 64927 | 81101 | 200050 | 95845 | 135169 |
| G10-P1200 SR4 | 167296 | 73589 | 90083 | 167296 | 73589 | 90083 | 231641 | 110384 | 154427 | 295986 | 147178 | 218772 |
| G10-P1200 SR5 | 193034 | 88307 | 115821 | 141558 | 58871 | 64345 | 205903 | 95666 | 128689 | 270248 | 132460 | 193034 |
| G10-P1200 SR6 | 225207 | 106704 | 147993 | | | | 173731 | 77268 | 96517 | 238076 | 114063 | 160862 |
| G10-P1300 SR4 | 196341 | 86365 | 105722 | 196341 | 86365 | 105722 | 271857 | 129547 | 181238 | 347372 | 172730 | 256753 |
| G10-P1300 SR5 | 226547 | 103638 | 135928 | 166135 | 69092 | 75516 | 241650 | 112274 | 151031 | 317166 | 155457 | 226547 |
| G10-P1300 SR6 | 264305 | 125229 | 173686 | | | | 203892 | 90683 | 113274 | 279408 | 133866 | 188789 |
| G10-P1400 SR4 | 227709 | 100163 | 122612 | 227709 | 100163 | 122612 | 315289 | 150244 | 210193 | 402870 | 200326 | 297773 |
| G10-P1400 SR5 | 262741 | 120195 | 157645 | 192677 | 80130 | 87580 | 280257 | 130212 | 175161 | 367837 | 180293 | 262741 |
| G10-P1400 SR6 | 306531 | 145236 | 201435 | | | | 236467 | 105171 | 131371 | 324047 | 155252 | 218951 |

| Actuator model | Spring-return torque | | | Torque outputs at different air supply pressure (UnitNm) | | | | | | | | |
|----------------------|----------------------|----------|----------|--|----------|---------|----------|----------|---------|----------|----------|---------|
| | | | | 4 bar | | | 5 bar | | | 6 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| G3-P450 SR6 | 9096 | 4335 | 6064 | | | | 6216 | 2687 | 3184 | 8672 | 4092 | 5640 |
| G4-P450 SR4 | 6661 | 3194 | 4509 | 6763 | 3252 | 4611 | 9581 | 4864 | 7429 | 12399 | 6475 | 10247 |
| G4-P450 SR5 | 8217 | 3976 | 5690 | 5582 | 2469 | 3055 | 8400 | 4081 | 5873 | 11218 | 5692 | 8691 |
| G4-P450 SR6 | 9426 | 4548 | 6480 | | | | 7609 | 3509 | 4664 | 10427 | 5120 | 7482 |
| G4-P500 SR4 | 8217 | 3976 | 5690 | 8226 | 3981 | 5699 | 11705 | 5971 | 9178 | 15184 | 7960 | 12657 |
| G4-P500 SR5 | 9426 | 4548 | 6480 | 7435 | 3410 | 4490 | 10914 | 5399 | 7969 | 14393 | 7388 | 11448 |
| G4-P500 SR6 | 12274 | 5801 | 8016 | | | | 9379 | 4146 | 5121 | 12858 | 6135 | 8600 |
| G4-P550 SR4 | 9426 | 4548 | 6480 | 10358 | 5081 | 7412 | 14567 | 7488 | 11622 | 18777 | 9895 | 15831 |
| G4-P550 SR5 | 12274 | 5801 | 8016 | 8823 | 3828 | 4564 | 13032 | 6235 | 8774 | 17242 | 8642 | 12983 |
| G4-P550 SR6 | 14528 | 6875 | 9518 | | | | 11529 | 5160 | 6520 | 15739 | 7568 | 10729 |
| G5-P550 SR4 | 14013 | 6496 | 8706 | 13693 | 6313 | 8387 | 19293 | 9515 | 13987 | 24893 | 12717 | 19586 |
| G5-P550 SR5 | 16736 | 7608 | 9873 | 12526 | 5201 | 5663 | 18126 | 8403 | 11263 | 23726 | 11605 | 16863 |
| G5-P550 SR6 | 21418 | 10273 | 14513 | | | | 13486 | 5738 | 6581 | 19086 | 8940 | 12181 |
| G5-P600 SR4 | 16736 | 7608 | 9873 | 16784 | 7635 | 9921 | 23448 | 11446 | 16585 | 30113 | 15257 | 23249 |
| G5-P600 SR5 | 20802 | 9444 | 12228 | 14429 | 5800 | 5855 | 21093 | 9610 | 12519 | 27758 | 13421 | 19183 |
| G5-P600 SR6 | 27465 | 12684 | 16897 | | | | 16425 | 6371 | 5856 | 23089 | 10181 | 12521 |
| G5-P700 SR4 | 21846 | 10396 | 14513 | 21770 | 10352 | 14437 | 30841 | 15539 | 23508 | 39912 | 20726 | 32579 |
| G5-P700 SR5 | 27465 | 12684 | 16897 | 19387 | 8064 | 8818 | 28457 | 13251 | 17889 | 37528 | 18438 | 26960 |
| G5-P700 SR6 | 30801 | 14463 | 19785 | | | | 25570 | 11472 | 14553 | 34640 | 16659 | 23623 |
| G7-P700 SR4 | 25876 | 12156 | 16640 | 27150 | 12885 | 17914 | 38097 | 19145 | 28862 | 49045 | 25405 | 39809 |
| G7-P700 SR5 | 31847 | 15366 | 21895 | 21895 | 9675 | 11943 | 32843 | 15935 | 22890 | 43790 | 22195 | 33838 |
| G7-P700 SR6 | 42429 | 19564 | 25998 | | | | 28740 | 11737 | 12309 | 39687 | 17997 | 23257 |
| G7-P800 SR4 | 31847 | 15366 | 21895 | 35300 | 17340 | 25348 | 49599 | 25517 | 39647 | 63898 | 33693 | 53946 |
| G7-P800 SR5 | 42429 | 19564 | 25998 | 31197 | 13142 | 14767 | 45496 | 21319 | 29066 | 59795 | 29495 | 43364 |
| G7-P800 SR6 | 51576 | 24060 | 32575 | | | | 38920 | 16823 | 19918 | 53218 | 24999 | 34217 |
| G8-P1000 SR4 | 59453 | 28025 | 38564 | 67656 | 32716 | 46767 | 94211 | 47901 | 73322 | 120766 | 63086 | 99877 |
| G8-P1000 SR5 | 77275 | 35761 | 47799 | 58421 | 24979 | 28945 | 84976 | 40164 | 55500 | 111531 | 55349 | 82055 |
| G8-P1000 SR6 | 92942 | 45555 | 66387 | | | | 66387 | 30370 | 39832 | 92942 | 45555 | 66387 |
| G8-P800 SR4 | 40540 | 19032 | 26024 | 41957 | 19842 | 27440 | 58952 | 29560 | 44435 | 75947 | 39279 | 61431 |
| G8-P800 SR5 | 51942 | 23686 | 30900 | 37080 | 15188 | 16039 | 54076 | 24906 | 33034 | 71071 | 34624 | 50029 |
| G8-P800 SR6 | 60344 | 28280 | 38564 | | | | 46412 | 20313 | 24632 | 63407 | 30031 | 41627 |
| G8-P900 SR4 | 50429 | 23254 | 30900 | 55138 | 25946 | 35609 | 76647 | 38246 | 57118 | 98157 | 50546 | 78628 |
| G8-P900 SR5 | 59453 | 28025 | 38564 | 47474 | 21175 | 26585 | 68984 | 33475 | 48095 | 90493 | 45775 | 69604 |
| G8-P900 SR6 | 77275 | 35761 | 47799 | | | | 59749 | 25739 | 30273 | 81258 | 38039 | 51782 |
| G9-P1000 SR4 | 81236 | 37539 | 50059 | 87823 | 41306 | 56646 | 122293 | 61017 | 91116 | 156763 | 80729 | 125586 |
| G9-P1000 SR5 | 100102 | 46509 | 62564 | 75318 | 32336 | 37780 | 109788 | 52048 | 72250 | 144259 | 71759 | 106720 |
| G9-P1000 SR6 | 125128 | 57242 | 75077 | | | | 97275 | 41315 | 47224 | 131746 | 61026 | 81695 |
| G9-P1100 SR4 | 100102 | 46509 | 62564 | 104273 | 48894 | 66735 | 145982 | 72745 | 108444 | 187691 | 96595 | 150153 |
| G9-P1100 SR5 | 125128 | 57242 | 75077 | 91760 | 38161 | 41709 | 133469 | 62012 | 83418 | 175179 | 85863 | 125128 |
| G9-P1100 SR6 | 145982 | 71552 | 104273 | | | | 104273 | 47701 | 62564 | 145982 | 71552 | 104273 |
| G9-P900 SR4 | 65894 | 30416 | 40485 | 71199 | 33449 | 45790 | 99120 | 49415 | 73711 | 127041 | 65382 | 101633 |
| G9-P900 SR5 | 81236 | 37539 | 50059 | 61625 | 26325 | 30448 | 89546 | 42292 | 58369 | 117467 | 58258 | 86290 |
| G9-P900 SR6 | 100102 | 46509 | 62564 | | | | 77041 | 33322 | 39503 | 104962 | 49288 | 67424 |
| G10-P1100 SR4 | 140575 | 61835 | 75694 | 140575 | 61835 | 75694 | 194643 | 92753 | 129762 | 248710 | 123670 | 183829 |
| G10-P1100 SR5 | 162202 | 74202 | 97321 | 118948 | 49468 | 54067 | 173016 | 80386 | 108135 | 227083 | 111303 | 162202 |
| G10-P1100 SR6 | 189236 | 89661 | 124355 | | | | 145982 | 64927 | 81101 | 200050 | 95845 | 135169 |
| G10-P1200 SR4 | 167296 | 73589 | 90083 | 167296 | 73589 | 90083 | 231641 | 110384 | 154427 | 295986 | 147178 | 218772 |
| G10-P1200 SR5 | 193034 | 88307 | 115821 | 141558 | 58871 | 64345 | 205903 | 95666 | 128689 | 270248 | 132460 | 193034 |
| G10-P1200 SR6 | 225207 | 106704 | 147993 | | | | 173731 | 77268 | 96517 | 238076 | 114063 | 160862 |
| G10-P1300 SR4 | 196341 | 86365 | 105722 | 196341 | 86365 | 105722 | 271857 | 129547 | 181238 | 347372 | 172730 | 256753 |
| G10-P1300 SR5 | 226547 | 103638 | 135928 | 166135 | 69092 | 75516 | 241650 | 112274 | 151031 | 317166 | 155457 | 226547 |
| G10-P1300 SR6 | 264305 | 125229 | 173686 | | | | 203892 | 90683 | 113274 | 279408 | 133866 | 188789 |
| G10-P1400 SR4 | 227709 | 100163 | 122612 | 227709 | 100163 | 122612 | 315289 | 150244 | 210193 | 402870 | 200326 | 297773 |
| G10-P1400 SR5 | 262741 | 120195 | 157645 | 192677 | 80130 | 87580 | 280257 | 130212 | 175161 | 367837 | 180293 | 262741 |
| G10-P1400 SR6 | 308531 | 145236 | 201435 | | | | 236467 | 105171 | 131371 | 324047 | 155252 | 218951 |

BTS-G Range Pneumatic Actuators

Spring Return Torque Output
Canted Yoke Configuration



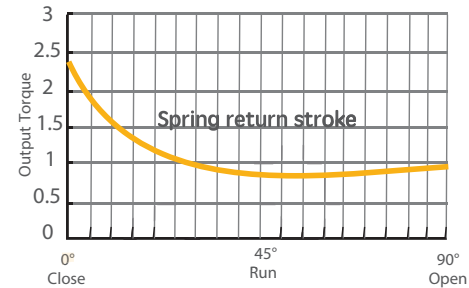
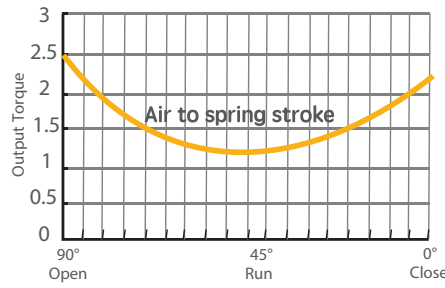
Spring Return Fail Close (FC)

| Actuator model | Spring-return torque | | | Torque outputs at different air supply pressure (Unit:Nm) | | | | | | | | |
|----------------|----------------------|----------|---------|---|----------|----------|---------|----------|----------|---------|----------|----------|
| | | | | 4 bar | | | 5 bar | | | 6 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| GC0-P180 SR4 | 489 | 272 | 463 | 463 | 176 | 182 | 695 | 288 | 350 | 927 | 400 | 518 |
| GC0-P180 SR5 | 603 | 336 | 572 | 355 | 112 | 68 | 586 | 225 | 236 | 818 | 337 | 403 |
| GC0-P180 SR6 | 704 | 403 | 715 | | | | 675 | 269 | 303 | 907 | 382 | 471 |
| GC0-P200 SR4 | 603 | 336 | 572 | 572 | 218 | 225 | 858 | 356 | 432 | 1144 | 494 | 639 |
| GC0-P200 SR5 | 704 | 403 | 715 | 429 | 150 | 125 | 715 | 289 | 332 | 1001 | 427 | 539 |
| GC0-P200 SR6 | 804 | 470 | 858 | | | | 858 | 360 | 438 | 1144 | 498 | 646 |
| GC1-P200 SR4 | 852 | 475 | 808 | 808 | 307 | 318 | 1213 | 503 | 611 | 1617 | 699 | 904 |
| GC1-P200 SR5 | 1151 | 622 | 1010 | 606 | 160 | 19 | 1010 | 356 | 312 | 1415 | 551 | 605 |
| GC1-P200 SR6 | 1151 | 622 | 1010 | | | | 1415 | 551 | 605 | 1819 | 747 | 897 |
| GC1-P250 SR4 | 1510 | 832 | 1396 | 1130 | 390 | 320 | 1762 | 695 | 777 | 2393 | 1001 | 1234 |
| GC1-P250 SR5 | 1554 | 890 | 1579 | 947 | 332 | 275 | 1579 | 638 | 733 | 2210 | 943 | 1190 |
| GC1-P250 SR6 | 1976 | 1083 | 1802 | | | | 1988 | 750 | 768 | 2619 | 1055 | 1225 |
| GC1-P300 SR4 | 1976 | 1083 | 1802 | 1836 | 676 | 658 | 2745 | 1116 | 1316 | 3655 | 1556 | 1975 |
| GC1-P300 SR5 | 2238 | 1281 | 2273 | 1364 | 478 | 396 | 2273 | 918 | 1055 | 3183 | 1358 | 1713 |
| GC1-P300 SR6 | 2557 | 1495 | 2728 | | | | 2728 | 1145 | 1394 | 3638 | 1584 | 2052 |
| GC2-P300 SR4 | 2755 | 1519 | 2552 | 2205 | 782 | 690 | 3394 | 1357 | 1551 | 4583 | 1932 | 2412 |
| GC2-P300 SR5 | 3476 | 1883 | 3075 | 1681 | 418 | -31 | 2871 | 993 | 830 | 4060 | 1568 | 1691 |
| GC2-P300 SR6 | 4024 | 2240 | 3816 | | | | 3319 | 1211 | 1143 | 4508 | 1787 | 2004 |
| GC2-P350 SR4 | 3476 | 1883 | 3075 | 3399 | 1249 | 1212 | 5018 | 2032 | 2385 | 6636 | 2815 | 3557 |
| GC2-P350 SR5 | 4024 | 2240 | 3816 | 2659 | 892 | 664 | 4277 | 1675 | 1836 | 5896 | 2458 | 3008 |
| GC2-P350 SR6 | 4552 | 2661 | 4856 | | | | 4856 | 2037 | 2481 | 6475 | 2820 | 3653 |
| GC3-P350 SR4 | 4009 | 2231 | 3799 | 3437 | 1269 | 1231 | 5246 | 2144 | 2541 | 7055 | 3019 | 3851 |
| GC3-P350 SR5 | 5118 | 2833 | 4785 | 2451 | 667 | 122 | 4261 | 1542 | 1432 | 6070 | 2417 | 2742 |
| GC3-P350 SR6 | 5118 | 2833 | 4785 | | | | 6070 | 2417 | 2742 | 7879 | 3292 | 4052 |
| GC3-P400 SR4 | 5118 | 2833 | 4785 | 4667 | 1739 | 1726 | 7029 | 2882 | 3437 | 9392 | 4025 | 5148 |
| GC3-P400 SR5 | 6221 | 3352 | 5424 | 4027 | 1220 | 623 | 6390 | 2363 | 2334 | 8753 | 3506 | 4045 |
| GC3-P400 SR6 | 7787 | 4335 | 7384 | | | | 6793 | 2523 | 2479 | 9156 | 3666 | 4190 |
| GC3-P450 SR4 | 6221 | 3352 | 5424 | 6538 | 2435 | 2441 | 9529 | 3881 | 4606 | 12519 | 5328 | 6772 |
| GC3-P450 SR5 | 7787 | 4335 | 7384 | 4578 | 1452 | 875 | 7569 | 2898 | 3041 | 10559 | 4345 | 5206 |
| GC3-P450 SR6 | 8410 | 4916 | 8971 | | | | 8971 | 3764 | 4583 | 11962 | 5210 | 6749 |
| GC4-P450 SR4 | 7034 | 3976 | 6928 | 6796 | 2663 | 2904 | 10228 | 4322 | 5389 | 13659 | 5982 | 7874 |
| GC4-P450 SR5 | 8069 | 4548 | 7891 | 5834 | 2091 | 1870 | 9265 | 3751 | 4354 | 12697 | 5411 | 6839 |
| GC4-P450 SR6 | 10507 | 5801 | 9760 | | | | 10827 | 4157 | 4401 | 14259 | 5817 | 6886 |
| GC4-P500 SR4 | 8069 | 4548 | 7891 | 9054 | 3648 | 4201 | 13290 | 5697 | 7268 | 17526 | 7746 | 10336 |
| GC4-P500 SR5 | 10507 | 5801 | 9760 | 7184 | 2395 | 1763 | 11420 | 4444 | 4830 | 15656 | 6493 | 7898 |
| GC4-P500 SR6 | 12437 | 6875 | 11590 | | | | 13826 | 5419 | 5968 | 18062 | 7468 | 9036 |

| Actuator model | Spring-return torque | | | Torque outputs at different air supply pressure (Unit:Nm) | | | | | | | | |
|----------------|----------------------|----------|---------|---|----------|----------|---------|----------|----------|---------|----------|----------|
| | | | | 4 bar | | | 5 bar | | | 6 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| GC4-P550 SR4 | 10507 | 5801 | 9760 | 10743 | 4116 | 4340 | 15868 | 6596 | 8051 | 20994 | 9075 | 11763 |
| GC4-P550 SR5 | 12437 | 6875 | 11590 | 8913 | 3042 | 2410 | 14038 | 5522 | 6122 | 19164 | 8001 | 9833 |
| GC4-P550 SR6 | 15010 | 8594 | 15250 | | | | 15504 | 6282 | 7260 | 20630 | 8761 | 10972 |
| GC5-P550 SR4 | 14046 | 7514 | 12022 | 15252 | 5679 | 5704 | 22071 | 8977 | 10641 | 28889 | 12275 | 15579 |
| GC5-P550 SR5 | 17975 | 10153 | 17672 | 9602 | 3040 | 1775 | 16421 | 6338 | 6712 | 23239 | 9636 | 11650 |
| GC5-P550 SR6 | 23050 | 12530 | 20574 | | | | 20337 | 7260 | 6575 | 27156 | 10558 | 11512 |
| GC5-P600 SR4 | 17458 | 9327 | 14889 | 17569 | 6373 | 6046 | 25684 | 10299 | 11922 | 33798 | 14224 | 17798 |
| GC5-P600 SR5 | 23050 | 12530 | 20574 | 11885 | 3171 | 454 | 19999 | 7096 | 6330 | 28114 | 11021 | 12206 |
| GC5-P600 SR6 | 25850 | 14291 | 24090 | | | | 24597 | 9260 | 9406 | 32712 | 13186 | 15282 |
| GC5-P700 SR4 | 23050 | 12530 | 20574 | 23606 | 8841 | 8942 | 34650 | 14183 | 16940 | 45695 | 19526 | 24937 |
| GC5-P700 SR5 | 25850 | 14291 | 24090 | 20089 | 7080 | 6141 | 31134 | 12422 | 14139 | 42179 | 17765 | 22137 |
| GC5-P700 SR6 | 31060 | 18155 | 33134 | | | | 33134 | 13901 | 16928 | 44179 | 19244 | 24925 |
| GC7-P700 SR4 | 27262 | 15366 | 26660 | 26660 | 10426 | 11348 | 39990 | 16874 | 21001 | 53320 | 23322 | 30653 |
| GC7-P700 SR5 | 36320 | 19564 | 31656 | 21664 | 6228 | 2290 | 34994 | 12676 | 11943 | 48324 | 19124 | 21595 |
| GC7-P700 SR6 | 46475 | 24836 | 39663 | | | | 40316 | 13852 | 11441 | 53646 | 20300 | 21094 |
| GC7-P800 SR4 | 36320 | 19564 | 31656 | 37987 | 14123 | 14110 | 55397 | 22545 | 26717 | 72808 | 30967 | 39325 |
| GC7-P800 SR5 | 46475 | 24836 | 39663 | 29979 | 8851 | 3955 | 47389 | 17273 | 16563 | 64800 | 25695 | 29170 |
| GC7-P800 SR6 | 48961 | 28618 | 52232 | | | | 52232 | 21913 | 26684 | 69642 | 30335 | 39291 |
| GC8-P1000 SR4 | 68196 | 36444 | 58201 | 71134 | 26118 | 25460 | 103468 | 41759 | 48874 | 135802 | 57399 | 72288 |
| GC8-P1000 SR5 | 79562 | 45555 | 80835 | 48501 | 17007 | 14094 | 80835 | 32648 | 37508 | 113168 | 48288 | 60922 |
| GC8-P1000 SR6 | 90928 | 52388 | 93768 | | | | 100235 | 41455 | 49556 | 132569 | 57096 | 72970 |
| GC8-P800 SR4 | 43169 | 23254 | 37625 | 45150 | 16786 | 16770 | 65843 | 26796 | 31755 | 86537 | 36806 | 46740 |
| GC8-P800 SR5 | 50894 | 28025 | 46956 | 35818 | 12015 | 9046 | 56512 | 22025 | 24031 | 77206 | 32035 | 39016 |
| GC8-P800 SR6 | 68196 | 36444 | 58201 | | | | 65961 | 23616 | 21714 | 86655 | 33626 | 36699 |
| GC8-P900 SR4 | 50894 | 28025 | 46956 | 57805 | 22651 | 24968 | 83996 | 35320 | 43933 | 110186 | 47989 | 62898 |
| GC8-P900 SR5 | 68196 | 36444 | 58201 | 46561 | 14231 | 7665 | 72751 | 26900 | 26631 | 98942 | 39569 | 45596 |
| GC8-P900 SR6 | 79562 | 45555 | 80835 | | | | 76308 | 30458 | 34230 | 102498 | 43127 | 53195 |
| GC9-P1000 SR4 | 85691 | 46509 | 76179 | 91708 | 34702 | 35882 | 133680 | 55005 | 66275 | 175652 | 75307 | 96668 |
| GC9-P1000 SR5 | 107114 | 57242 | 91415 | 76473 | 23969 | 14459 | 118444 | 44272 | 44852 | 160416 | 64574 | 75245 |
| GC9-P1000 SR6 | 124966 | 71552 | 126965 | | | | 124866 | 50264 | 57393 | 166838 | 70567 | 87786 |
| GC9-P1100 SR4 | 107114 | 57242 | 91415 | 111729 | 41023 | 39989 | 162515 | 65590 | 76765 | 213301 | 90156 | 113540 |
| GC9-P1100 SR5 | 124966 | 71552 | 126965 | 76179 | 26713 | 22137 | 126965 | 51279 | 58913 | 177751 | 75845 | 95688 |
| GC9-P1100 SR6 | 149959 | 83478 | 142200 | | | | 162515 | 63920 | 70695 | 213301 | 88486 | 107471 |
| GC9-P900 SR4 | 69541 | 37539 | 60953 | 75036 | 28241 | 28933 | 109033 | 44686 | 53551 | 143030 | 61132 | 78170 |
| GC9-P900 SR5 | 85691 | 46509 | 76179 | 59810 | 19272 | 12783 | 93807 | 35717 | 37401 | 127804 | 52162 | 62020 |
| GC9-P900 SR6 | 107114 | 57242 | 91415 | | | | 112568 | 41429 | 40597 | 146566 | 57874 | 65215 |
| GC10-P1100 SR4 | 138851 | 74202 | 118500 | 144834 | 53178 | 51838 | 210667 | 85023 | 99510 | 276501 | 116869 | 147182 |
| GC10-P1100 SR5 | 161993 | 89661 | 151417 | 111917 | 37719 | 28696 | 177751 | 69565 | 76368 | 243584 | 101410 | 124040 |
| GC10-P1100 SR6 | 194391 | 108212 | 184334 | | | | 144834 | 51014 | 43969 | 210667 | 82859 | 91642 |
| GC10-P1200 SR4 | 165244 | 88307 | 141025 | 172364 | 63287 | 61691 | 250712 | 101185 | 118425 | 329059 | 139083 | 175159 |
| GC10-P1200 SR5 | 192785 | 106704 | 180199 | 133191 | 44889 | 34150 | 211538 | 82788 | 90884 | 289885 | 120686 | 147618 |
| GC10-P1200 SR6 | 231342 | 128781 | 219373 | | | | 172364 | 60711 | 52327 | 250712 | 98609 | 109061 |
| GC10-P1300 SR4 | 193932 | 103638 | 165509 | 202289 | 74274 | 72401 | 294238 | 118752 | 138985 | 386187 | 163230 | 205568 |
| GC10-P1300 SR5 | 226255 | 125229 | 211483 | 156314 | 52683 | 40079 | 248263 | 97161 | 106663 | 340213 | 141638 | 173246 |
| GC10-P1300 SR6 | 271505 | 151139 | 257458 | | | | 202289 | 71251 | 61412 | 294238 | 115729 | 127995 |
| GC10-P1400 SR4 | 224916 | 120195 | 191951 | 234607 | 86140 | 83969 | 341246 | 137724 | 161190 | 447886 | 189308 | 238411 |
| GC10-P1400 SR5 | 262402 | 145236 | 245271 | 181287 | 61099 | 46483 | 287927 | 112683 | 123704 | 394566 | 164267 | 200925 |
| GC10-P1400 SR6 | 314882 | 175285 | 298591 | | | | 234607 | 82634 | 71223 | 341246 | 134218 | 148444 |

BTS-G Range Pneumatic Actuators

Spring Return Torque Output
Canted Yoke Configuration



Spring Return Fail Open (FO)

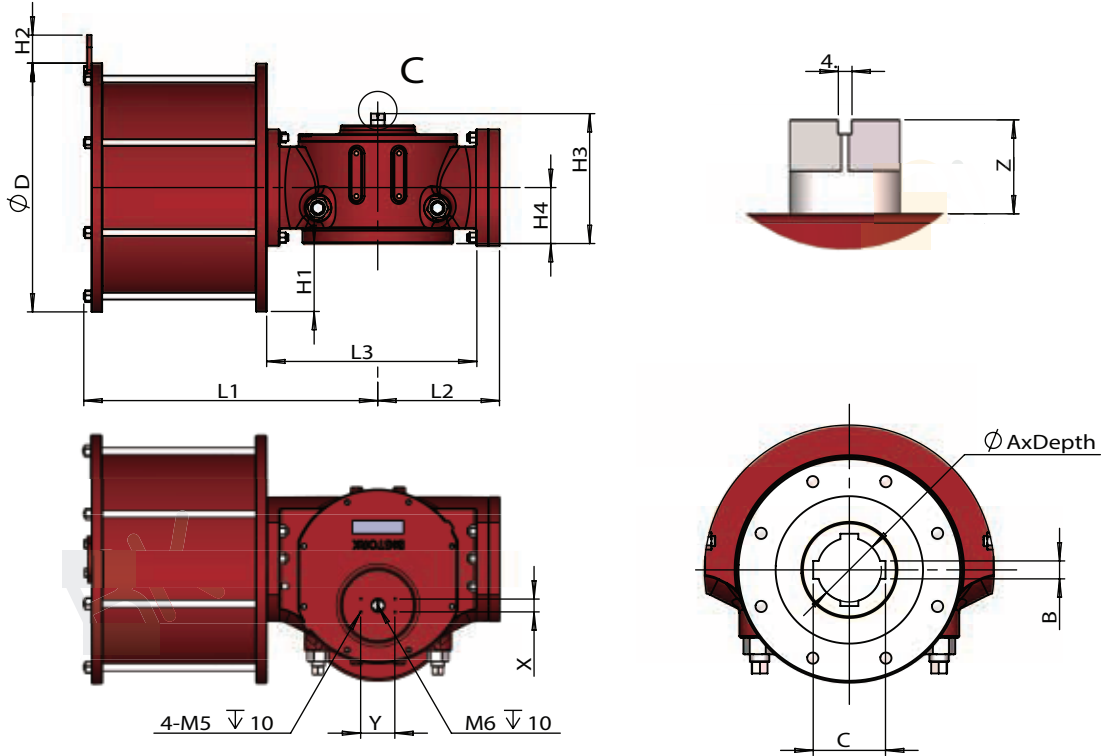
| Actuator model | Spring-return torque | | | Torque outputs at different air supply pressure (UnitNm) | | | | | | | | |
|----------------|----------------------|----------|----------|--|----------|---------|----------|----------|---------|----------|----------|---------|
| | | | | 4 bar | | | 5 bar | | | 6 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| GC0-P180 SR4 | 374 | 174 | 264 | 616 | 274 | 396 | 837 | 386 | 589 | 1057 | 498 | 781 |
| GC0-P180 SR5 | 452 | 218 | 349 | 532 | 230 | 317 | 752 | 342 | 510 | 972 | 455 | 702 |
| GC0-P180 SR6 | 561 | 272 | 440 | | | | 661 | 288 | 402 | 881 | 400 | 594 |
| GC0-P200 SR4 | 452 | 218 | 349 | 739 | 336 | 498 | 1010 | 474 | 735 | 1282 | 612 | 973 |
| GC0-P200 SR5 | 561 | 272 | 440 | 647 | 281 | 390 | 919 | 420 | 627 | 1191 | 558 | 865 |
| GC0-P200 SR6 | 692 | 336 | 544 | | | | 815 | 356 | 496 | 1087 | 494 | 734 |
| GC1-P200 SR4 | 652 | 304 | 461 | 1075 | 478 | 691 | 1460 | 674 | 1027 | 1844 | 869 | 1362 |
| GC1-P200 SR5 | 782 | 380 | 615 | 922 | 402 | 561 | 1306 | 598 | 896 | 1690 | 793 | 1232 |
| GC1-P200 SR6 | 978 | 475 | 768 | | | | 1152 | 503 | 701 | 1536 | 699 | 1037 |
| GC1-P250 SR4 | 978 | 475 | 768 | 1632 | 747 | 1120 | 2233 | 1053 | 1645 | 2833 | 1358 | 2170 |
| GC1-P250 SR5 | 1321 | 622 | 960 | 1440 | 600 | 778 | 2040 | 906 | 1302 | 2641 | 1211 | 1827 |
| GC1-P250 SR6 | 1732 | 832 | 1327 | | | | 1674 | 695 | 891 | 2274 | 1001 | 1416 |
| GC1-P300 SR4 | 1321 | 622 | 960 | 2497 | 1138 | 1701 | 3361 | 1578 | 2456 | 4225 | 2018 | 3212 |
| GC1-P300 SR5 | 1732 | 832 | 1327 | 2130 | 928 | 1290 | 2994 | 1367 | 2045 | 3859 | 1807 | 2801 |
| GC1-P300 SR6 | 2267 | 1083 | 1712 | | | | 2609 | 1116 | 1510 | 3473 | 1556 | 2265 |
| GC2-P300 SR4 | 1968 | 914 | 1381 | 3139 | 1387 | 1984 | 4269 | 1962 | 2971 | 5399 | 2537 | 3959 |
| GC2-P300 SR5 | 2498 | 1174 | 1806 | 2715 | 1127 | 1453 | 3845 | 1703 | 2441 | 4975 | 2278 | 3429 |
| GC2-P300 SR6 | 3160 | 1519 | 2425 | | | | 3225 | 1357 | 1779 | 4355 | 1932 | 2767 |
| GC2-P350 SR4 | 2498 | 1174 | 1806 | 4347 | 1958 | 2880 | 5885 | 2741 | 4224 | 7424 | 3524 | 5569 |
| GC2-P350 SR5 | 3160 | 1519 | 2425 | 3727 | 1612 | 2218 | 5266 | 2395 | 3563 | 6804 | 3178 | 4907 |
| GC2-P350 SR6 | 3987 | 1883 | 2923 | | | | 4768 | 2032 | 2735 | 6307 | 2815 | 4080 |
| GC3-P350 SR4 | 2918 | 1359 | 2063 | 4814 | 2141 | 3093 | 6533 | 3016 | 4596 | 8252 | 3891 | 6098 |
| GC3-P350 SR5 | 3604 | 1729 | 2751 | 4126 | 1771 | 2407 | 5845 | 2646 | 3910 | 7564 | 3522 | 5413 |
| GC3-P350 SR6 | 4599 | 2231 | 3610 | | | | 4986 | 2144 | 2915 | 6705 | 3019 | 4417 |
| GC3-P400 SR4 | 3604 | 1729 | 2751 | 6231 | 2843 | 4247 | 8477 | 3986 | 6210 | 10722 | 5129 | 8173 |
| GC3-P400 SR5 | 4599 | 2231 | 3610 | 5372 | 2341 | 3252 | 7617 | 3484 | 5215 | 9862 | 4627 | 7177 |
| GC3-P400 SR6 | 5871 | 2833 | 4547 | | | | 6680 | 2882 | 3942 | 8926 | 4025 | 5905 |
| GC3-P450 SR4 | 4599 | 2231 | 3610 | 7757 | 3555 | 5337 | 10599 | 5002 | 7821 | 13441 | 6448 | 10306 |
| GC3-P450 SR5 | 5871 | 2833 | 4547 | 6821 | 2953 | 4065 | 9663 | 4400 | 6549 | 12504 | 5846 | 9033 |
| GC3-P450 SR6 | 7136 | 3352 | 5154 | | | | 9055 | 3881 | 5284 | 11897 | 5328 | 7768 |
| GC4-P450 SR4 | 5017 | 2479 | 4122 | 8921 | 4160 | 6383 | 12181 | 5819 | 9233 | 15442 | 7479 | 12083 |
| GC4-P450 SR5 | 6540 | 3194 | 5217 | 7826 | 3445 | 4860 | 11086 | 5105 | 7710 | 14347 | 6765 | 10560 |
| GC4-P450 SR6 | 8069 | 3976 | 6584 | | | | 9719 | 4322 | 6182 | 12980 | 5982 | 9032 |
| GC4-P500 SR4 | 6540 | 3194 | 5217 | 10885 | 5003 | 7534 | 14911 | 7052 | 11053 | 18936 | 9101 | 14571 |
| GC4-P500 SR5 | 8069 | 3976 | 6584 | 9518 | 4220 | 6006 | 13544 | 6269 | 9525 | 17569 | 8318 | 13043 |
| GC4-P500 SR6 | 9256 | 4548 | 7499 | | | | 12629 | 5697 | 8337 | 16655 | 7746 | 11856 |

| Actuator model | Spring-return torque | | | Torque outputs at different air supply pressure (Unit:Nm) | | | | | | | | |
|----------------|----------------------|----------|----------|---|----------|---------|----------|----------|---------|----------|----------|---------|
| | | | | 4 bar | | | 5 bar | | | 6 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| GC4-P550 SR4 | 8069 | 3976 | 6584 | 12900 | 5941 | 8962 | 17771 | 8421 | 13219 | 22642 | 10900 | 17477 |
| GC4-P550 SR5 | 9256 | 4548 | 7499 | 11985 | 5370 | 7774 | 16856 | 7849 | 12032 | 21727 | 10328 | 16289 |
| GC4-P550 SR6 | 12052 | 5801 | 9275 | | | | 15080 | 6596 | 9236 | 19951 | 9075 | 13493 |
| GC5-P550 SR4 | 10741 | 5202 | 8397 | 17522 | 7991 | 11914 | 24002 | 11289 | 17577 | 30481 | 14587 | 23241 |
| GC5-P550 SR5 | 13490 | 6417 | 10074 | 15845 | 6776 | 9165 | 22325 | 10074 | 14829 | 28804 | 13372 | 20492 |
| GC5-P550 SR6 | 16112 | 7514 | 11424 | | | | 20974 | 8977 | 12207 | 27454 | 12275 | 17870 |
| GC5-P600 SR4 | 13490 | 6417 | 10074 | 20772 | 9284 | 13471 | 28483 | 13209 | 20212 | 36194 | 17134 | 26952 |
| GC5-P600 SR5 | 16112 | 7514 | 11424 | 19421 | 8186 | 10849 | 27133 | 12112 | 17589 | 34844 | 16037 | 24330 |
| GC5-P600 SR6 | 20026 | 9327 | 14149 | | | | 24408 | 10299 | 13675 | 32119 | 14224 | 20416 |
| GC5-P700 SR4 | 16112 | 7514 | 11424 | 30560 | 13856 | 20585 | 41056 | 19199 | 29759 | 51552 | 24541 | 38934 |
| GC5-P700 SR5 | 20619 | 10153 | 16794 | 25191 | 11217 | 16078 | 35687 | 16560 | 25253 | 46183 | 21902 | 34427 |
| GC5-P700 SR6 | 26440 | 12530 | 19551 | | | | 32929 | 14183 | 19431 | 43425 | 19526 | 28606 |
| GC7-P700 SR4 | 18668 | 9115 | 14891 | 35780 | 16677 | 25622 | 48447 | 23125 | 36694 | 61115 | 29573 | 47767 |
| GC7-P700 SR5 | 25409 | 12156 | 19255 | 31416 | 13636 | 18881 | 44083 | 20084 | 29953 | 56751 | 26532 | 41026 |
| GC7-P700 SR6 | 31273 | 15366 | 25335 | | | | 38003 | 16874 | 24090 | 50671 | 23322 | 35162 |
| GC7-P800 SR4 | 25409 | 12156 | 19255 | 46927 | 21531 | 32439 | 63473 | 29953 | 46901 | 80018 | 38375 | 61363 |
| GC7-P800 SR5 | 31273 | 15366 | 25335 | 40847 | 18322 | 26575 | 57392 | 26743 | 41037 | 73938 | 35165 | 55499 |
| GC7-P800 SR6 | 41663 | 19564 | 30083 | | | | 52645 | 22545 | 30647 | 69190 | 30967 | 45109 |
| GC8-P1000 SR4 | 49519 | 23254 | 35756 | 87154 | 39309 | 57913 | 117881 | 54949 | 84771 | 148609 | 70590 | 111629 |
| GC8-P1000 SR5 | 58380 | 28025 | 44623 | 78286 | 34538 | 49052 | 109014 | 50178 | 75910 | 139741 | 65819 | 102768 |
| GC8-P1000 SR6 | 78227 | 36444 | 55309 | | | | 98328 | 41759 | 56063 | 129055 | 57399 | 82921 |
| GC8-P800 SR4 | 33377 | 15549 | 23599 | 55064 | 24490 | 35379 | 74729 | 34500 | 52569 | 94395 | 44510 | 69758 |
| GC8-P800 SR5 | 37170 | 18263 | 30113 | 48549 | 21776 | 31587 | 68215 | 31786 | 48776 | 87880 | 41796 | 65965 |
| GC8-P800 SR6 | 49519 | 23254 | 35756 | | | | 62572 | 26796 | 36426 | 82238 | 36806 | 53615 |
| GC8-P900 SR4 | 37170 | 18263 | 30113 | 69444 | 32412 | 49850 | 94333 | 45081 | 71605 | 119222 | 57750 | 93360 |
| GC8-P900 SR5 | 49519 | 23254 | 35756 | 63801 | 27422 | 37501 | 88690 | 40091 | 59256 | 113580 | 52760 | 81010 |
| GC8-P900 SR6 | 58380 | 28025 | 44623 | | | | 79823 | 35320 | 50395 | 104712 | 47989 | 72150 |
| GC9-P1000 SR4 | 64704 | 30416 | 46847 | 112699 | 50795 | 74750 | 152586 | 71098 | 109614 | 192472 | 91401 | 144478 |
| GC9-P1000 SR5 | 79770 | 37539 | 57924 | 101622 | 43671 | 59685 | 141508 | 63974 | 94549 | 181395 | 84277 | 129412 |
| GC9-P1000 SR6 | 98295 | 46509 | 72394 | | | | 127039 | 55005 | 76023 | 166925 | 75307 | 110887 |
| GC9-P1100 SR4 | 79770 | 37539 | 57924 | 135126 | 60726 | 88970 | 183389 | 85292 | 131156 | 231652 | 109858 | 173341 |
| GC9-P1100 SR5 | 98295 | 46509 | 72394 | 120657 | 51756 | 70445 | 168919 | 76322 | 112630 | 217182 | 100889 | 154815 |
| GC9-P1100 SR6 | 122869 | 57242 | 86873 | | | | 154441 | 65590 | 88056 | 202703 | 90156 | 130241 |
| GC9-P900 SR4 | 54834 | 25546 | 38770 | 90463 | 40235 | 58124 | 122771 | 56680 | 86364 | 155079 | 73125 | 114603 |
| GC9-P900 SR5 | 64704 | 30416 | 46847 | 82386 | 35365 | 48254 | 114694 | 51810 | 76494 | 147002 | 68255 | 104733 |
| GC9-P900 SR6 | 79770 | 37539 | 57924 | | | | 103616 | 44686 | 61428 | 135924 | 61132 | 89668 |
| GC10-P1100 SR4 | 106183 | 49468 | 75075 | 175176 | 77912 | 112554 | 237739 | 109758 | 167238 | 300301 | 141603 | 221923 |
| GC10-P1100 SR5 | 138038 | 63381 | 93844 | 156407 | 63999 | 80699 | 218970 | 95845 | 135384 | 281532 | 127690 | 190068 |
| GC10-P1100 SR6 | 159275 | 74202 | 112613 | | | | 200201 | 85023 | 114147 | 262764 | 116869 | 168831 |
| GC10-P1200 SR4 | 126367 | 58871 | 89346 | 208474 | 92722 | 133949 | 282928 | 130621 | 199028 | 357383 | 168519 | 264106 |
| GC10-P1200 SR5 | 164277 | 73589 | 104237 | 193583 | 78004 | 96039 | 268038 | 115903 | 161118 | 342492 | 153801 | 226196 |
| GC10-P1200 SR6 | 189550 | 88307 | 134019 | | | | 238256 | 101185 | 135844 | 312710 | 139083 | 200923 |
| GC10-P1300 SR4 | 148305 | 69092 | 104857 | 244667 | 108820 | 157204 | 332048 | 153298 | 233581 | 419429 | 197776 | 309958 |
| GC10-P1300 SR5 | 192797 | 86365 | 122333 | 227191 | 91547 | 112712 | 314572 | 136025 | 189089 | 401953 | 180503 | 265467 |
| GC10-P1300 SR6 | 222458 | 103638 | 157286 | | | | 279619 | 118752 | 159428 | 367000 | 163230 | 235806 |
| GC10-P1400 SR4 | 171999 | 80130 | 121610 | 283756 | 126205 | 182319 | 385097 | 177789 | 270899 | 486438 | 229373 | 359478 |
| GC10-P1400 SR5 | 223599 | 100163 | 141878 | 263487 | 106173 | 130719 | 364829 | 157757 | 219299 | 466170 | 209340 | 307878 |
| GC10-P1400 SR6 | 257999 | 120195 | 182414 | | | | 324292 | 137724 | 184899 | 425634 | 189308 | 273479 |

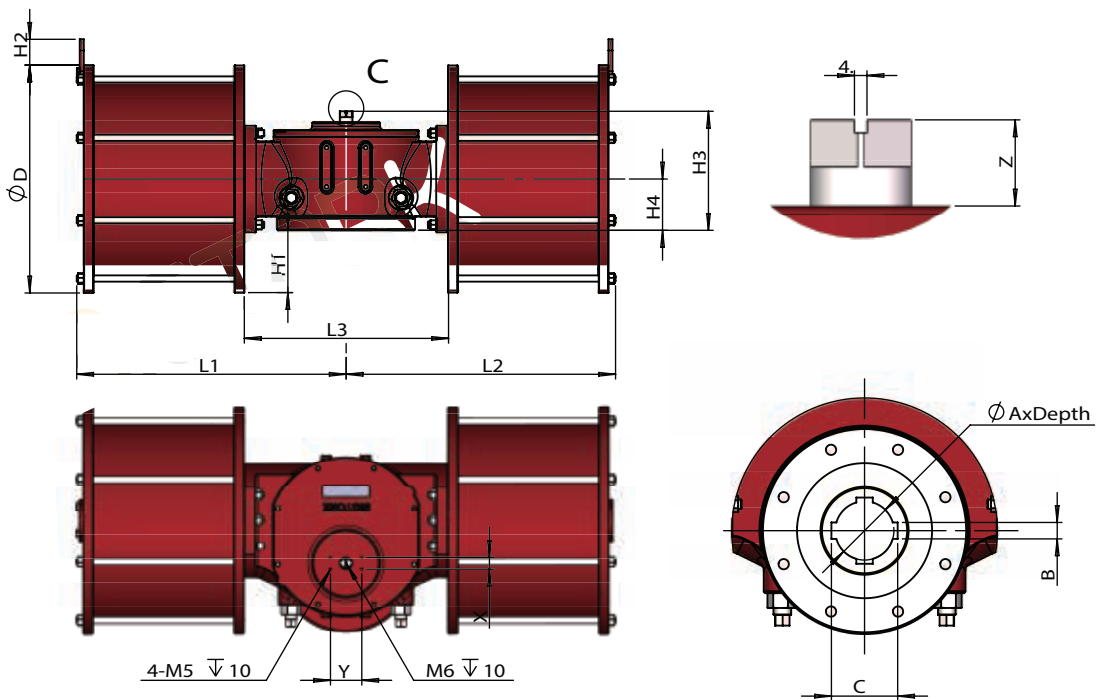
Overall Dimensions

Double-acting configuraion(Symmetric/Canted Yoke)

Double Acting - Single cylinder



Double Acting - Double cylinders



Double-acting Scotch Yoke Actuator – Overall Dimensions Unit: mm

| MODEL | D | L | L1 | L2 | L3 | H1 | H2 | H3 | H4 | A*Depth | B | C | X * Y * Z | Flanges to ISO5211 | Pipe/Port Size to air supply |
|------------|------|------|------|------|------|-----|-----|-----|-----|----------|----|-------|-----------|-----------------------|---------------------------------|
| G0-P180 | 230 | 486 | 350 | 136 | 240 | 40 | 31 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G3/8" |
| G0-P200 | 250 | 486 | 350 | 136 | 240 | 40 | 31 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G1/2" |
| G1-P200 | 225 | 635 | 460 | 175 | 334 | 25 | 81 | 202 | 88 | Φ40x60 | 12 | 46.6 | 30x80x20 | F12 | G1/2" |
| G1-P250 | 280 | 678 | 503 | 175 | 334 | 52 | 71 | 202 | 88 | Φ40x60 | 12 | 46.6 | 30x80x20 | F14 | G1/2" |
| G1-P300 | 330 | 691 | 516 | 175 | 334 | 77 | 86 | 202 | 88 | Φ40x60 | 12 | 46.6 | 30x80x20 | F14 | G1/2" |
| G2-P300 | 330 | 800 | 593 | 207 | 398 | 67 | 86 | 217 | 98 | Φ50x70 | 14 | 57.6 | 30x80x20 | F16 | G1/2" |
| G2-P350 | 420 | 785 | 578 | 207 | 398 | 107 | 83 | 217 | 98 | Φ50x70 | 14 | 57.6 | 30x80x20 | F16 | G1/2" |
| G3-P350 | 425 | 851 | 618 | 233 | 445 | 103 | 70 | 247 | 110 | Φ60x90 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G3-P400 | 475 | 851 | 618 | 233 | 445 | 128 | 70 | 247 | 110 | Φ60x90 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G3-P450 | 525 | 851 | 618 | 233 | 445 | 153 | 70 | 247 | 110 | Φ60x90 | 18 | 68.8 | 30x130x30 | F25/F16 | G3/4" |
| G4-P450 | 525 | 1010 | 730 | 280 | 520 | 132 | 72 | 294 | 131 | Φ80x120 | 22 | 90.8 | 30x130x30 | F30/F25 | G3/4" |
| G4-P500 | 580 | 1010 | 730 | 280 | 520 | 159 | 72 | 294 | 131 | Φ80x120 | 22 | 90.8 | 30x130x30 | F30/F25 | G3/4" |
| G4-P550 | 630 | 1010 | 730 | 280 | 520 | 184 | 72 | 294 | 131 | Φ80x120 | 22 | 90.8 | 30x130x30 | F30/F25 | G1" |
| G5-P500 | 580 | 1160 | 798 | 362 | 655 | 133 | 72 | 355 | 157 | Φ98x150 | 28 | 110.8 | 30x130x30 | F35/F30 | G3/4" |
| G5-P550 | 630 | 1160 | 798 | 362 | 655 | 158 | 72 | 355 | 157 | Φ98x150 | 28 | 110.8 | 30x130x30 | F35/F30 | G1" |
| G5-P600 | 680 | 1160 | 798 | 362 | 655 | 183 | 72 | 355 | 157 | Φ98x150 | 28 | 110.8 | 30x130x30 | F35/F30 | G1" |
| G5-P2500 | 580 | 1596 | 798 | 798 | 655 | 133 | 72 | 355 | 157 | Φ98x150 | 28 | 110.8 | 30x130x30 | F35/F30 | G3/4" |
| G7-P600 | 703 | 1467 | 1040 | 427 | 830 | 158 | 109 | 416 | 194 | Φ120x180 | 32 | 134.8 | 30x130x30 | F40 | G1" |
| G7-P700 | 803 | 1467 | 1040 | 427 | 830 | 208 | 109 | 416 | 194 | Φ120x180 | 32 | 134.8 | 30x130x30 | F40 | 2-G1" |
| G7-P2500 | 580 | 2080 | 1040 | 1040 | 830 | 96 | 72 | 416 | 194 | Φ120x180 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G7-P750 | 853 | 2080 | 1040 | 1040 | 830 | 233 | 109 | 416 | 194 | Φ120x180 | 32 | 134.8 | 30x130x30 | F40 | 2-G1" |
| G7-P2550 | 630 | 2080 | 1040 | 1040 | 830 | 121 | 109 | 416 | 194 | Φ120x180 | 32 | 134.8 | 30x130x30 | F40 | G1" |
| G7-P800 | 913 | 1467 | 1040 | 427 | 830 | 263 | 109 | 416 | 194 | Φ120x180 | 32 | 134.8 | 30x130x30 | F40 | 2-G1" |
| G8-P2550 | 630 | 2416 | 1208 | 1208 | 940 | 152 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | G1" |
| G8-P800 | 950 | 1739 | 1253 | 486 | 940 | 256 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | 2-G1" |
| G8-P850 | 1000 | 1669 | 1208 | 461 | 940 | 282 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | 2-G1" |
| G8-P2600 | 680 | 2416 | 1208 | 1208 | 940 | 182 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | G1" |
| G8-P900 | 1050 | 1739 | 1253 | 486 | 940 | 306 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | 2-G1" |
| G8-P2650 | 730 | 2416 | 1208 | 1208 | 940 | 208 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | G1" |
| G8-P2700 | 803 | 2416 | 1208 | 1208 | 940 | 232 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | 2-G1" |
| G8-P1000 | 1130 | 1739 | 1253 | 486 | 940 | 346 | 110 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | 3-G1" |
| G9-P900 | 1050 | 2014 | 1414 | 600 | 1080 | 276 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | 2-G1" |
| G9-P2700 | 803 | 2828 | 1414 | 1414 | 1080 | 153 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | 2-G1" |
| G9-P1000 | 1130 | 2014 | 1414 | 600 | 1080 | 316 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | 3-G1" |
| G9-P1100 | 1250 | 2014 | 1414 | 600 | 1080 | 376 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | 3-G1" |
| G9-P2800 | 950 | 2828 | 1414 | 1414 | 1080 | 226 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | 2-G1" |
| G9-P2900 | 1050 | 2828 | 1414 | 1414 | 1080 | 276 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | 2-G1" |
| G10-P1200 | 1350 | 2350 | 1650 | 700 | 1400 | 365 | 100 | 570 | 310 | Φ280x320 | 63 | 304.8 | 30x130x30 | F80 | 4-G1" |
| G10-P1300 | 1450 | 2350 | 1650 | 700 | 1400 | 415 | 100 | 570 | 310 | Φ280x320 | 63 | 304.8 | 30x130x30 | F80 | 4-G1" |
| G10-P21100 | 1250 | 3300 | 1650 | 1650 | 1400 | 315 | 100 | 570 | 310 | Φ280x320 | 63 | 304.8 | 30x130x30 | F80 | 3-G1" |
| G10-P21200 | 1350 | 3300 | 1650 | 1650 | 1400 | 365 | 100 | 570 | 310 | Φ280x320 | 63 | 304.8 | 30x130x30 | F80 | 4-G1" |

* Sizes can be customized according to customer needs

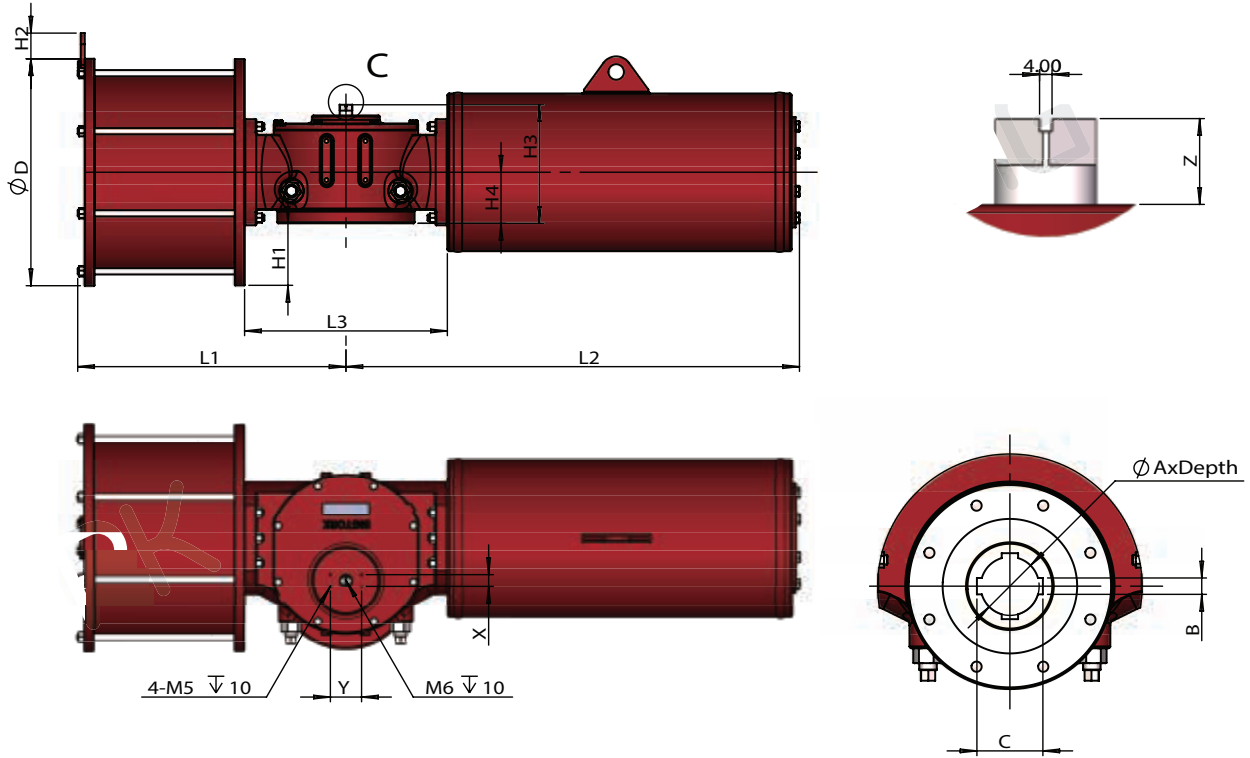
* The canted type and symmetrical type dimensions are basically the same

* L=L1+L2

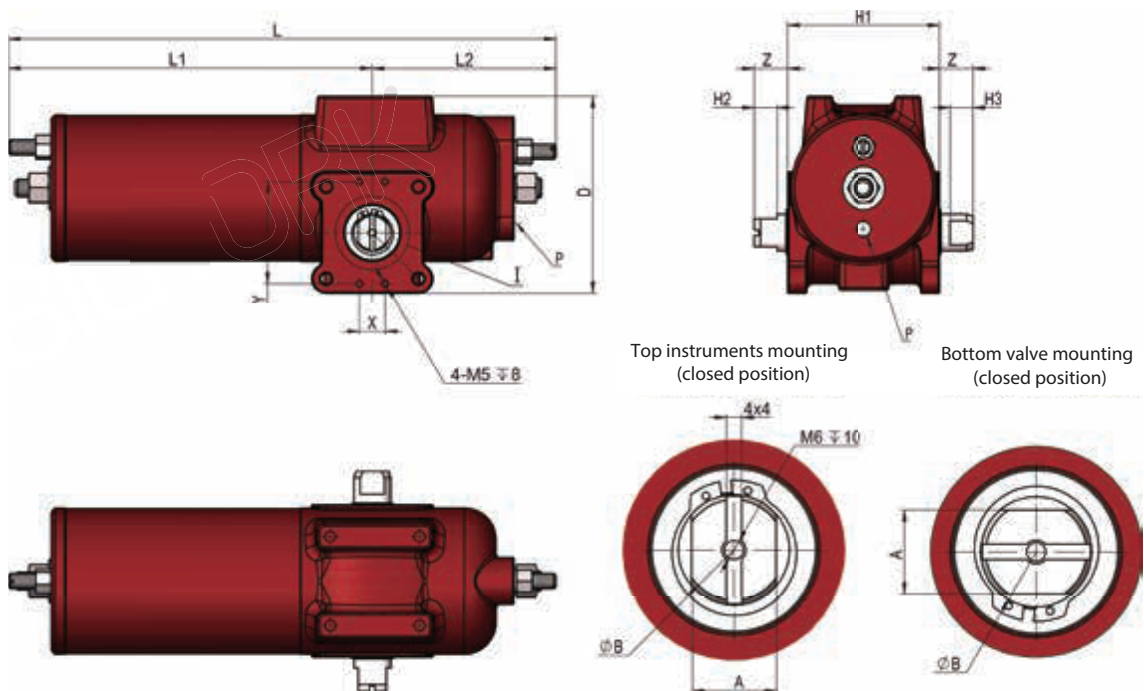
* There are two F standard specifications, and the ISO 5211 flange positioning stop port is non-standard, please pay attention to check.

Overall Dimensions

Spring-return configuration (Symmetric/Canted Yoke)



Specification overall dimension (Double/single action)



Spring-return Scotch Yoke Actuator - Overall Dimensions

Unit: mm

| MODEL | D | L | L1 | L2 | L3 | H1 | H2 | H3 | H4 | A*Depth | B | C | X * Y * Z | Flanges to ISO5211 | Pipe/Port Size to air supply |
|--------------|------|------|------|------|------|-----|-----|-----|-----|----------|----|-------|-----------|--------------------|------------------------------|
| G0-P180 SR | 230 | 230 | 350 | 537 | 240 | 40 | 31 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G3/8" |
| G0-P200 SR | 262 | 262 | 350 | 589 | 240 | 56 | 31 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G1/2" |
| G1-P200 SR | 225 | 225 | 460 | 709 | 334 | 25 | 81 | 202 | 88 | Φ40x60 | 12 | 46.6 | 30x80x20 | F14 | G1/2" |
| G1-P250 SR | 280 | 280 | 503 | 709 | 334 | 52 | 71 | 202 | 88 | Φ40x60 | 12 | 46.6 | 30x80x20 | F14 | G1/2" |
| G1-P300 SR | 330 | 330 | 516 | 709 | 334 | 77 | 86 | 202 | 88 | Φ40x60 | 12 | 46.6 | 30x80x20 | F14 | G1/2" |
| G2-P300 SR | 330 | 330 | 593 | 869 | 398 | 67 | 86 | 217 | 98 | Φ50x70 | 14 | 57.6 | 30x80x20 | F16 | G1/2" |
| G2-P350 SR | 420 | 420 | 578 | 869 | 398 | 107 | 83 | 217 | 98 | Φ50x70 | 14 | 57.6 | 30x80x20 | F16 | G1/2" |
| G3-P350 SR | 425 | 425 | 618 | 1022 | 445 | 103 | 70 | 247 | 110 | Φ60x90 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G3-P400 SR | 475 | 475 | 618 | 1022 | 445 | 128 | 70 | 247 | 110 | Φ60x90 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G3-P450 SR | 525 | 525 | 618 | 1022 | 445 | 153 | 70 | 247 | 110 | Φ60x90 | 18 | 68.8 | 30x130x30 | F25/F16 | G3/4" |
| G4-P450 SR | 525 | 525 | 730 | 1174 | 520 | 132 | 72 | 294 | 131 | Φ80x120 | 22 | 90.8 | 30x130x30 | F30/F25 | G3/4" |
| G4-P500 SR | 580 | 580 | 730 | 1174 | 520 | 159 | 72 | 294 | 131 | Φ80x120 | 22 | 90.8 | 30x130x30 | F30/F25 | G3/4" |
| G4-P550 SR | 630 | 630 | 730 | 1174 | 520 | 184 | 72 | 294 | 131 | Φ80x120 | 22 | 90.8 | 30x130x30 | F30/F25 | G1" |
| G5-P550 SR | 630 | 630 | 798 | 1385 | 655 | 158 | 72 | 355 | 157 | Φ98x150 | 28 | 110.8 | 30x130x30 | F35/F30 | G1" |
| G5-P600 SR | 680 | 680 | 798 | 1385 | 655 | 183 | 72 | 355 | 157 | Φ98x150 | 28 | 110.8 | 30x130x30 | F35/F30 | G1" |
| G5-P700 SR | 780 | 780 | 798 | 1705 | 655 | 233 | 72 | 355 | 157 | Φ98x150 | 28 | 110.8 | 30x130x30 | F35/F30 | 2-G1" |
| G7-P700 SR | 803 | 803 | 1040 | 1938 | 830 | 208 | 109 | 416 | 194 | Φ120x180 | 32 | 134.8 | 30x130x30 | F40 | 2-G1" |
| G7-P800 SR | 913 | 913 | 1040 | 2098 | 830 | 263 | 109 | 416 | 194 | Φ120x180 | 32 | 134.8 | 30x130x30 | F40 | 2-G1" |
| G8-P800 SR | 950 | 950 | 1253 | 2345 | 940 | 256 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | 2-G1" |
| G8-P900 SR | 1050 | 1050 | 1253 | 2345 | 940 | 306 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | 2-G1" |
| G8-P1000 SR | 1130 | 1130 | 1253 | 2345 | 940 | 346 | 100 | 466 | 220 | Φ160x200 | 40 | 178.8 | 30x130x30 | F48/F40 | 3-G1" |
| G9-P900 SR | 1050 | 1050 | 1414 | 2627 | 1080 | 276 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | 2-G1" |
| G9-P1000 SR | 1130 | 1130 | 1414 | 2627 | 1080 | 316 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | 3-G1" |
| G9-P1100 SR | 1250 | 1250 | 1414 | 2627 | 1080 | 376 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | 3-G1" |
| G10-P1100 SR | 1250 | 1250 | 1650 | 3600 | 1400 | 315 | 100 | 570 | 310 | Φ280x320 | 63 | 304.8 | 30x130x30 | F80 | 3-G1" |
| G10-P1200 SR | 1350 | 1350 | 1650 | 3600 | 1400 | 365 | 100 | 570 | 310 | Φ280x320 | 63 | 304.8 | 30x130x30 | F80 | 4-G1" |
| G10-P1300 SR | 1450 | 1450 | 1650 | 3800 | 1400 | 415 | 100 | 570 | 310 | Φ280x320 | 63 | 304.8 | 30x130x30 | F80 | 4-G1" |
| G10-P1400 SR | 1550 | 1550 | 1650 | 4000 | 1400 | 465 | 100 | 570 | 310 | Φ280x320 | 63 | 304.8 | 30x130x30 | F80 | 4-G1" |

* Sizes can be customized according to customer needs

* The canted type and symmetrical type dimensions are basically the same

L=L1+L2

There are two F standard specifications, and the ISO 5211 flange positioning stop port is non-standard, please pay attention to check.

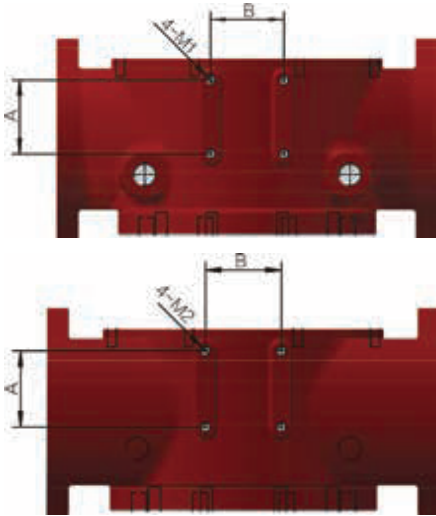
Specification Outline Size Table

Unit: mm

| MODEL | D | L | L1 | L2 | L3 | H1 | H2 | H3 | H4 | A | B | C | X * Y * Z | Connecting flange ISO5211 | P Air source interface |
|-------------|-----|-----|-----|-----|----|-----|----|----|----|----|-----|---|-----------|---------------------------|------------------------|
| G04-P105 DA | 155 | 430 | 290 | 140 | | 120 | 20 | 20 | | 22 | Φ29 | | 30x80x22 | F10 | G3/8" |
| G04-P125 DA | 155 | 430 | 290 | 140 | | 120 | 20 | 20 | | 22 | Φ29 | | 30x80x22 | F10 | G3/8" |
| G05-P125 DA | 190 | 485 | 330 | 155 | | 146 | 28 | 28 | | 27 | Φ38 | | 30x80x30 | F12/F10 | G3/8" |
| G05-P160 DA | 190 | 495 | 340 | 155 | | 146 | 28 | 28 | | 27 | Φ38 | | 30x80x30 | F12/F10 | G3/8" |
| G04-P105 SR | 155 | 553 | 413 | 140 | | 120 | 20 | 20 | | 22 | Φ29 | | 30x80x22 | F10 | G3/8" |
| G04-P125 SR | 155 | 563 | 423 | 140 | | 120 | 20 | 20 | | 22 | Φ29 | | 30x80x22 | F10 | G3/8" |
| G05-P125 SR | 190 | 680 | 525 | 155 | | 146 | 28 | 28 | | 27 | Φ38 | | 30x80x30 | F12/F10 | G3/8" |
| G05-P160 SR | 190 | 690 | 535 | 155 | | 146 | 28 | 28 | | 27 | Φ38 | | 30x80x30 | F12/F10 | G3/8" |

* For G04/G05 specifications, there is no ISO 5211 flange mounting interface. Please pay attention to confirm.

Connecting Dimension to Panel



| Centreboby Size | A | B | M1 | M2 |
|-----------------|-----|-----|-------|-------|
| G04 | 70 | 70 | / | 4-M10 |
| G05 | 70 | 70 | / | 4-M10 |
| G0/GC0 | 70 | 55 | 4-M8 | 4-M8 |
| G1/GC1 | 80 | 80 | 4-M12 | 4-M12 |
| G2/GC2 | 80 | 80 | 4-M12 | 4-M12 |
| G3/GC3 | 100 | 100 | 4-M12 | 4-M12 |
| G4/GC4 | 100 | 100 | 4-M12 | 4-M12 |
| G5/GC5 | 100 | 100 | 4-M12 | 4-M12 |
| G7/GC7 | 100 | 100 | 4-M12 | 8-M12 |
| G8/GC8 | 100 | 100 | 4-M12 | 8-M12 |
| G9/GC9 | 100 | 100 | 4-M12 | 8-M12 |
| G10/GC10 | 100 | 100 | 4-M12 | 8-M12 |

Air Consumption Volume

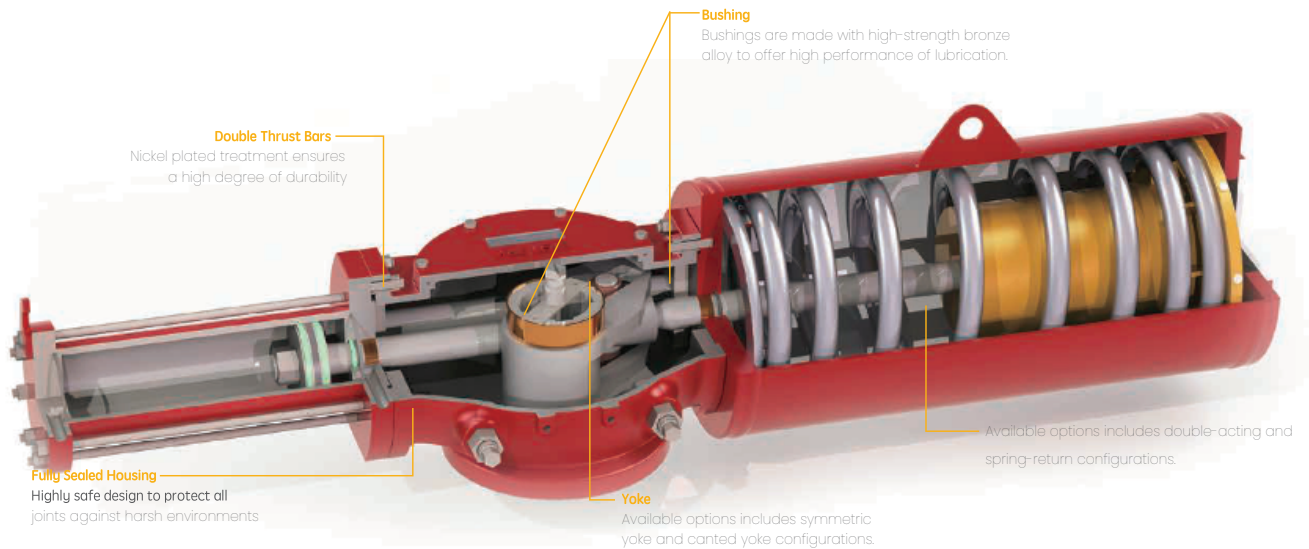
Acting Double

| MODEL | Air consumption volume (L) | MODEL | Air consumption volume (L) |
|-------------|----------------------------|---------------|----------------------------|
| G04-105 DA | 7.5 | G7-P2500 DA | 325.1 |
| G04-125 DA | 11.0 | G7-P750 DA | 373.5 |
| G05-125 DA | 11.4 | G7-P2550 DA | 404.1 |
| G05-160 DA | 21.7 | G7-P800 DA | 425.2 |
| G0-P180 DA | 6.2 | G8-P2550 DA | 474.4 |
| G0-P200 DA | 7.7 | G8-P800 DA | 499.2 |
| G1-P200 DA | 10.1 | G8-P850 DA | 564.0 |
| G1-P250 DA | 14.6 | G8-P2600 DA | 564.0 |
| G1-P300 DA | 21.1 | G8-P900 DA | 632.7 |
| G2-P300 DA | 26.3 | G8-P2650 DA | 661.2 |
| G2-P350 DA | 35.9 | G8-P2700 DA | 766.2 |
| G3-P350 DA | 42.4 | G8-P1000 DA | 781.8 |
| G3-P400 DA | 55.5 | G9-P900 DA | 853.1 |
| G3-P450 DA | 70.3 | G9-P2700 DA | 1033.4 |
| G4-P450 DA | 86.1 | G9-P1000 DA | 1054.5 |
| G4-P500 DA | 106.4 | G9-P1100 DA | 1277.0 |
| G4-P550 DA | 128.9 | G9-P2800 DA | 1347.9 |
| G5-P500 DA | 133.6 | G9-P2900 DA | 1704.0 |
| G5-P550 DA | 161.8 | G10-P1200 DA | 1971 |
| G5-P600 DA | 192.8 | G10-P1300 DA | 2314 |
| G5-P2500 DA | 262.7 | G10-P21100 DA | 3293 |
| G7-P600 DA | 238.3 | G10-P21200 DA | 3963 |
| G7-P700 DA | 325.1 | | |

Single-Return

| MODEL | Air consumption volume (L) | MODEL | Air consumption volume (L) |
|------------|----------------------------|--------------|----------------------------|
| G04-105SR | 5.5 | G4-P550 SR | 64.2 |
| G04-125SR | 8.0 | G5-P550 SR | 80.5 |
| G05-125SR | 9.4 | G5-P600 SR | 96.0 |
| G05-160SR | 15.7 | G5-P700 SR | 130.9 |
| G0-P180 SR | 3.1 | G7-P700 SR | 168.2 |
| G1-P200 SR | 4.6 | G7-P800 SR | 211.6 |
| G1-P200SR | 5.6 | G8-P800 SR | 248.0 |
| G1-P250 SR | 7.2 | G8-P900 SR | 314.7 |
| G1-P300 SR | 10.5 | G8-P1000 SR | 389.3 |
| G2-P300 SR | 13.1 | G9-P900 SR | 423.9 |
| G2-P350 SR | 17.9 | G9-P1000 SR | 524.6 |
| G3-P350 SR | 21.0 | G9-P1100 SR | 635.9 |
| G3-P400 SR | 27.5 | G10-P1100SR | 824 |
| G3-P450 SR | 34.9 | G10-P1200 SR | 982 |
| G4-P450 SR | 42.8 | G10-P1300SR | 1154 |
| G4-P500 SR | 52.9 | G10-P1400 SR | 1339 |

Note: 1. The double-acting air consumption is the total air consumption of the open and close travel
 2. Canted type air consumption is basically the same as symmetrical type.



Hydraulic Actuator – Characteristics

BTS-Gxx-H series is designed with a quarter-turn hydraulic actuation configuration, suitable for on-off and modulating valves. The design and materials ensure optimum performance in the harshest environments, covering the applications on both sea and land.

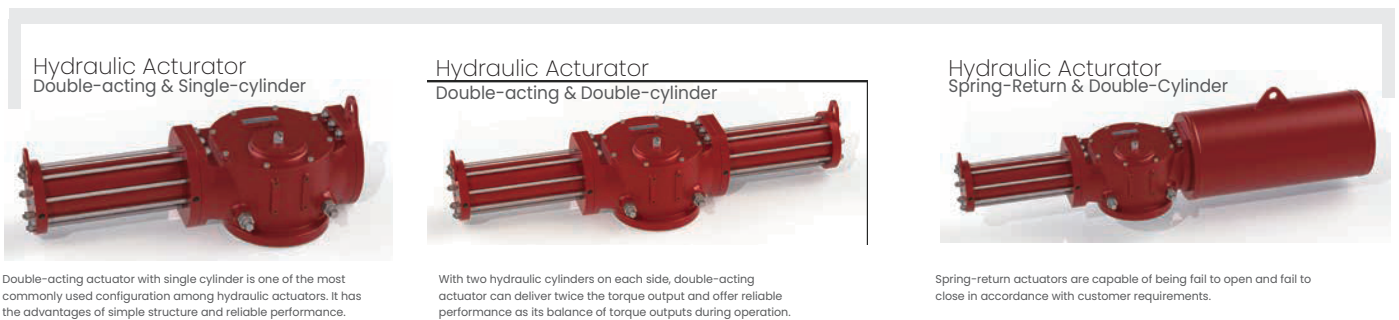
Elite operates on philosophy to provide Immediate Response, Excellent Quality Services, Quick Delivery and Customer satisfaction followed by our Core Values “What we commit, we deliver” based on this we are having satisfied customers in more than 25 countries and ever expanding throughout the world.

BTS-Gxx-H series features double torque outputs, assured safety and flexibility of mounting various accessories to automatically control the operation of valves.

Hydraulic Actuator

Hydraulic actuator is the type of actuator which can convert the hydraulic fluid into energy to implement preset actions and perform a variety of fuctions.

Hydraulic actuator has compact constructure and features smaller size, lighter weight as well as lower inertia force on the same outputs.



Advantages

Extended Life

The processing of grinding with low coefficient of friction, along with chrome plating of cylinders provide high performance and long service life. Yoke is designed with high-strength sealing, enabling that the structure remains stable and undeformed to operate safely and reliably under high torque values.

Reliable Safety

Spring modules with welded carbon steel housing ensure high efficiency as well as maintenance activities that can be performed safely with no unexpected operation caused by corrosion of the bolts.

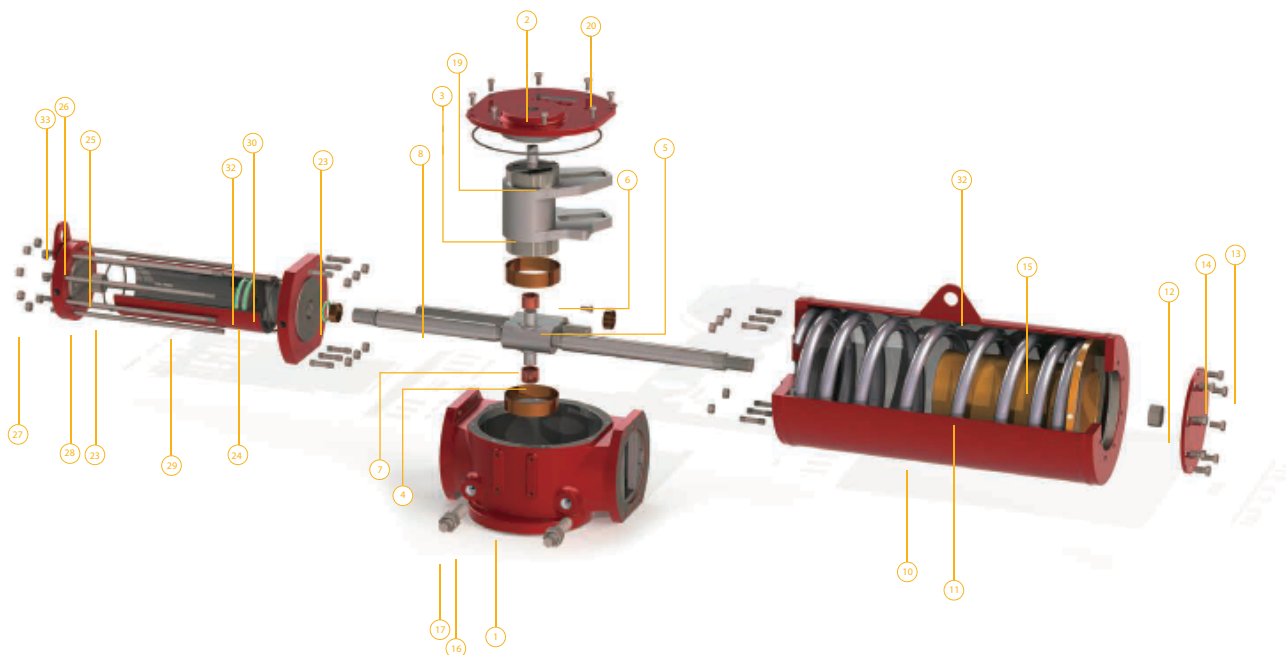
Modular Design

The BG range products are compact and lightweight. Either symmetrical or canted actuator is designed to offer adequate torque values. Interchangeable power modules and spring sets allow for easy and quick spring resetting without any risks. Hydraulic seals are able to be replaced easily on site by the construction of hydraulic cylinders.

High Efficiency

The inner surface of the housing is coated with a waterproof layer for high quality corrosion protection. Carefully selected materials as well as the surface treatment offer high performance to resist wear and prevent torque loss during service life. All parts that require threaded connection allow thread to be rotated in position. Stroke between 85 and 95 degree is available to be adjusted.

Hydraulic Actuator Parts & Materials



- | | | | |
|--|--|---|---|
| <ul style="list-style-type: none"> 1 Centreboddy Ductile iron 2 Centreboddy cover Ductile iron 3 Yoke Carbon steel 4 Bearing Bearing steel 5 Sliding bushing Bearing steel 6 Oilless bearing Composites 7 Sliding block Carbon steel 8 Thrust bar Alloy steel(chromium plated) | <ul style="list-style-type: none"> 9 Connecting rod Alloy steel(chromium plated) 10 Spring cartridge Carbon steel 11 Spring base Carbon steel 12 Stop screw Carbon steel 13 Hexagon bolt Carbon steel 14 Spring cover Carbon steel 15 Spring Alloy steel 16 Adjustable bolt Carbon steel | <ul style="list-style-type: none"> 17 Nut Carbon steel 18 Rob bushing Composites 19 Accessory-mounted shaft Stainless steel 20 Hexagon bolt Carbon steel 21 Inner cover Stainless steel 22 Rob bushing Composites 23 O-ring NBR 24 O-ring NBR | <ul style="list-style-type: none"> 25 Nut Carbon steel 26 End flange Carbon steel 27 Nut Carbon steel 28 Stud bolt Carbon steel 29 Cylinder Carbon steel(Inside nickel-plated) 30 Piston Ductile iron 31 O-ring NBR 32 Sliding ring Composites 33 Lifting Point Carbon steel |
|--|--|---|---|

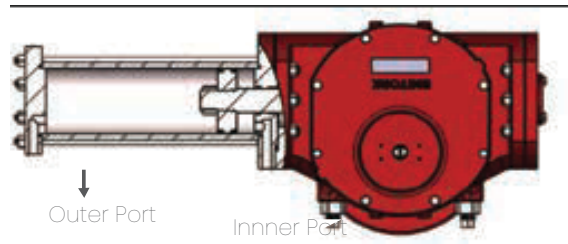
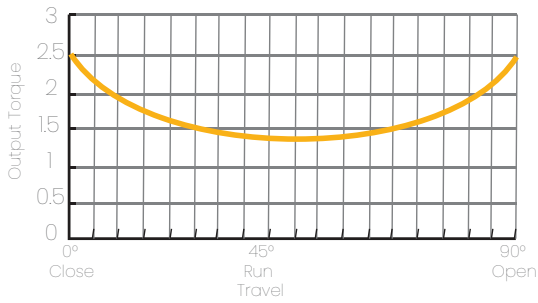
Corrosion Protection Class

| Corrosion level | Undercoat | | | Topcoat | | | Durability |
|---|-----------|----------------|---------------|--------------|----------------|---------------|------------|
| | Type | Coating Number | Thickness(μm) | Type | Coating Number | Thickness(μm) | |
| Moderate corrosion-C3 | Epoxy | 1 | 60 | Polyurethane | 2-3 | 120 | L/M/H |
| Strong corrosion-C4 | Epoxy | 1 | 60 | Polyurethane | 2-4 | 160 | L/M/H |
| Extreme corrosion (Industrial-grade)C5-1 | Epoxy | 1-2 | 80 | Polyurethane | 3-4 | 240 | L/M/H |
| Extreme corrosion (Marine-grade)C5-M | Epoxy | 1-2 | 80 | Polyurethane | 3-4 | 320 | L/M/H |

Paint is applied on the basis of the operating environments and service life of BG range actuators. The above chart is in accordance with corrosion protection standard ISO12944.

BTS-G Range Hydraulic Actuators

Double-Acting Torque Output



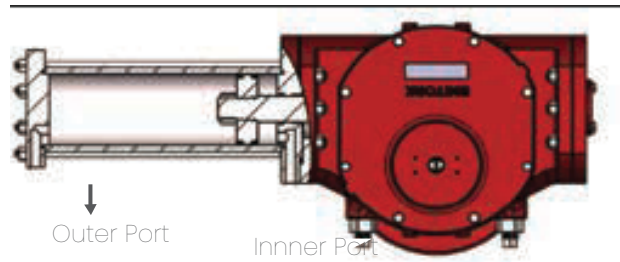
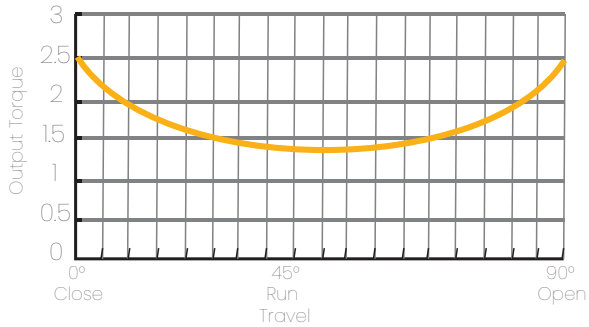
Symmetric Yoke Configuration

| Actuator model | Oil inlet | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | |
|-----------------|-------------|---|------|------|---------|------|------|----------|------|------|----------|------|------|
| | | 60 barG | | | 80 barG | | | 100 barG | | | 160 barG | | |
| | | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| G0-H32 | Outer port | 361 | 206 | 361 | 481 | 275 | 481 | 601 | 344 | 601 | 962 | 550 | 962 |
| G0-H32 | Innner port | 220 | 126 | 220 | 293 | 168 | 293 | 366 | 210 | 366 | 586 | 335 | 586 |
| G0-H40 | Outer port | 564 | 322 | 564 | 752 | 430 | 752 | 940 | 537 | 940 | 1503 | 860 | 1503 |
| G0-H40 | Innner port | 423 | 242 | 423 | 564 | 322 | 564 | 705 | 403 | 705 | 1128 | 645 | 1128 |
| G0-H50 | Outer port | 881 | 504 | 881 | 1175 | 672 | 1175 | | | | | | |
| G0-H50 | Innner port | 661 | 378 | 661 | 881 | 504 | 881 | | | | | | |
| G1-H40 | Outer port | 797 | 456 | 797 | 1062 | 607 | 1062 | 1328 | 759 | 1328 | 2124 | 1215 | 2124 |
| G1-H40 | Innner port | 597 | 342 | 597 | 797 | 456 | 797 | 996 | 569 | 996 | 1593 | 911 | 1593 |
| G1-H50 | Outer port | 1245 | 712 | 1245 | 1660 | 949 | 1660 | 2075 | 1186 | 2075 | 3319 | 1898 | 3319 |
| G1-H50 | Innner port | 934 | 534 | 934 | 1245 | 712 | 1245 | 1556 | 890 | 1556 | 2490 | 1424 | 2490 |
| G1-H63 | Outer port | 1976 | 1130 | 1976 | 2635 | 1507 | 2635 | 3294 | 1883 | 3294 | | | |
| G1-H63 | Innner port | 1665 | 952 | 1665 | 2220 | 1269 | 2220 | 2775 | 1587 | 2775 | | | |
| G2-H50 | Outer port | 1628 | 931 | 1628 | 2170 | 1241 | 2170 | 2713 | 1551 | 2713 | 4341 | 2482 | 4341 |
| G2-H50 | Innner port | 1221 | 698 | 1221 | 1628 | 931 | 1628 | 2035 | 1164 | 2035 | 3256 | 1862 | 3256 |
| G2-H63 | Outer port | 2584 | 1478 | 2584 | 3446 | 1970 | 3446 | 4307 | 2463 | 4307 | 6891 | 3941 | 6891 |
| G2-H63 | Innner port | 2177 | 1245 | 2177 | 2903 | 1660 | 2903 | 3629 | 2075 | 3629 | 5806 | 3320 | 5806 |
| G2-H80 | Outer port | 4167 | 2383 | 4167 | 5556 | 3177 | 5556 | 6945 | 3971 | 6945 | | | |
| G2-H80 | Innner port | 3581 | 2048 | 3581 | 4775 | 2730 | 4775 | 5968 | 3413 | 5968 | | | |
| G2-H100 | Outer port | 6511 | 3723 | 6511 | 8681 | 4964 | 8681 | | | | | | |
| G2-H100 | Innner port | 5713 | 3267 | 5713 | 7618 | 4356 | 7618 | | | | | | |
| G3-H2050 | Outer port | 3184 | 1821 | 3184 | 4245 | 2427 | 4245 | 5306 | 3034 | 5306 | 8490 | 4855 | 8490 |
| G3-H2050 | Innner port | 3184 | 1821 | 3184 | 4245 | 2427 | 4245 | 5306 | 3034 | 5306 | 8490 | 4855 | 8490 |
| G3-H63 | Outer port | 2888 | 1652 | 2888 | 3851 | 2202 | 3851 | 4814 | 2753 | 4814 | 7702 | 4404 | 7702 |

| Actuator model | Oil inlet | Torque outputs at different oil supply pressure (UnitNm) | | | | | | | | | | | |
|-----------------|-------------|--|-------|-------|---------|-------|-------|----------|-------|-------|----------|-------|-------|
| | | 60 barG | | | 80 barG | | | 100 barG | | | 160 barG | | |
| | | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| G3-H63 | Innner port | 2233 | 1277 | 2233 | 2978 | 1703 | 2978 | 3722 | 2128 | 3722 | 5956 | 3406 | 5956 |
| G3-H80 | Outer port | 4657 | 2663 | 4657 | 6210 | 3551 | 6210 | 7762 | 4439 | 7762 | 12420 | 7102 | 12420 |
| G3-H80 | Innner port | 4002 | 2289 | 4002 | 5337 | 3052 | 5337 | 6671 | 3815 | 6671 | 10673 | 6103 | 10673 |
| G3-H100 | Outer port | 7277 | 4161 | 7277 | 9703 | 5548 | 9703 | 12128 | 6935 | 12128 | | | |
| G3-H100 | Innner port | 6386 | 3652 | 6386 | 8514 | 4869 | 8514 | 10643 | 6086 | 10643 | | | |
| G3-H120 | Outer port | 11370 | 6502 | 11370 | 15161 | 8669 | 15161 | | | | | | |
| G3-H120 | Innner port | 10206 | 5836 | 10206 | 13608 | 7782 | 13608 | | | | | | |
| G4-H2063 | Outer port | 5292 | 3026 | 5292 | 7056 | 4035 | 7056 | 8820 | 5043 | 8820 | 14112 | 8070 | 14112 |
| G4-H2063 | Innner port | 5292 | 3026 | 5292 | 7056 | 4035 | 7056 | 8820 | 5043 | 8820 | 14112 | 8070 | 14112 |
| G4-H100 | Outer port | 8349 | 4775 | 8349 | 11133 | 6366 | 11133 | 13916 | 7958 | 13916 | 22265 | 12732 | 22265 |
| G4-H100 | Innner port | 6262 | 3581 | 6262 | 8349 | 4775 | 8349 | 10437 | 5968 | 10437 | 16699 | 9549 | 16699 |
| G4-H2080 | Outer port | 9936 | 5682 | 9936 | 13248 | 7576 | 13248 | 16560 | 9469 | 16560 | | | |
| G4-H2080 | Innner port | 9936 | 5682 | 9936 | 13248 | 7576 | 13248 | 16560 | 9469 | 16560 | | | |
| G4-H120 | Outer port | 13046 | 7460 | 13046 | 17395 | 9947 | 17395 | 21743 | 12434 | 21743 | | | |
| G4-H120 | Innner port | 10959 | 6267 | 10959 | 14612 | 8355 | 14612 | 18265 | 10444 | 18265 | | | |
| G4-H140 | Outer port | 16365 | 9358 | 16365 | 21820 | 12477 | 21820 | | | | | | |
| G4-H140 | Innner port | 14278 | 8164 | 14278 | 19037 | 10886 | 19037 | | | | | | |
| G5-H100 | Outer port | 11107 | 6351 | 11107 | 14810 | 8469 | 14810 | 18512 | 10586 | 18512 | 29619 | 16937 | 29619 |
| G5-H100 | Innner port | 8330 | 4764 | 8330 | 11107 | 6351 | 11107 | 13884 | 7939 | 13884 | 22214 | 12703 | 22214 |
| G5-H2080 | Outer port | 13217 | 7558 | 13217 | 17623 | 10078 | 17623 | 22029 | 12597 | 22029 | 35247 | 20155 | 35247 |
| G5-H2080 | Innner port | 13217 | 7558 | 13217 | 17623 | 10078 | 17623 | 22029 | 12597 | 22029 | 35247 | 20155 | 35247 |
| G5-H120 | Outer port | 17355 | 9924 | 17355 | 23140 | 13232 | 23140 | 28925 | 16540 | 28925 | 46280 | 26464 | 46280 |
| G5-H120 | Innner port | 14578 | 8336 | 14578 | 19437 | 11115 | 19437 | 24297 | 13894 | 24297 | 38875 | 22230 | 38875 |
| G5-H140 | Outer port | 21770 | 12449 | 21770 | 29027 | 16598 | 29027 | 36283 | 20748 | 36283 | | | |
| G5-H140 | Innner port | 18993 | 10861 | 18993 | 25324 | 14481 | 25324 | 31655 | 18102 | 31655 | | | |
| G7-H140 | Outer port | 26274 | 15024 | 26274 | 35032 | 20033 | 35032 | 43790 | 25041 | 43790 | 70064 | 40065 | 70064 |
| G7-H140 | Innner port | 19706 | 11268 | 19706 | 26274 | 15024 | 26274 | 32843 | 18781 | 32843 | 52548 | 30049 | 52548 |
| G7-H2100 | Outer port | 21984 | 12571 | 21984 | 29313 | 16762 | 29313 | 36641 | 20952 | 36641 | 58625 | 33524 | 58625 |
| G7-H2100 | Innner port | 21984 | 12571 | 21984 | 29313 | 16762 | 29313 | 36641 | 20952 | 36641 | 58625 | 33524 | 58625 |
| G7-H2125 | Outer port | 35323 | 20199 | 35323 | 47097 | 26932 | 47097 | 58871 | 33664 | 58871 | 94194 | 53863 | 94194 |
| G7-H2125 | Innner port | 35323 | 20199 | 35323 | 47097 | 26932 | 47097 | 58871 | 33664 | 58871 | 94194 | 53863 | 94194 |
| G7-H2140 | Outer port | 45980 | 26293 | 45980 | 61306 | 35057 | 61306 | 76633 | 43821 | 76633 | | | |
| G7-H2140 | Innner port | 45980 | 26293 | 45980 | 61306 | 35057 | 61306 | 76633 | 43821 | 76633 | | | |

BTS-G Range Hydraulic Actuators

Double-Acting Torque Output



Symmetric Yoke Configuration

| Actuator model | Oil inlet | Torque outputs at different oil supply pressure (UnitNm) | | | | | | | | | | | |
|-----------------|-------------|--|------|------|---------|------|------|----------|------|------|----------|------|------|
| | | 60 barG | | | 80 barG | | | 100 barG | | | 160 barG | | |
| | | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| G0-H32 | Outer port | 361 | 206 | 361 | 481 | 275 | 481 | 601 | 344 | 601 | 962 | 550 | 962 |
| G0-H32 | Innner port | 220 | 126 | 220 | 293 | 168 | 293 | 366 | 210 | 366 | 586 | 335 | 586 |
| G0-H40 | Outer port | 564 | 322 | 564 | 752 | 430 | 752 | 940 | 537 | 940 | 1503 | 860 | 1503 |
| G0-H40 | Innner port | 423 | 242 | 423 | 564 | 322 | 564 | 705 | 403 | 705 | 1128 | 645 | 1128 |
| G0-H50 | Outer port | 881 | 504 | 881 | 1175 | 672 | 1175 | | | | | | |
| G0-H50 | Innner port | 661 | 378 | 661 | 881 | 504 | 881 | | | | | | |
| G1-H40 | Outer port | 797 | 456 | 797 | 1062 | 607 | 1062 | 1328 | 759 | 1328 | 2124 | 1215 | 2124 |
| G1-H40 | Innner port | 597 | 342 | 597 | 797 | 456 | 797 | 996 | 569 | 996 | 1593 | 911 | 1593 |
| G1-H50 | Outer port | 1245 | 712 | 1245 | 1660 | 949 | 1660 | 2075 | 1186 | 2075 | 3319 | 1898 | 3319 |
| G1-H50 | Innner port | 934 | 534 | 934 | 1245 | 712 | 1245 | 1556 | 890 | 1556 | 2490 | 1424 | 2490 |
| G1-H63 | Outer port | 1976 | 1130 | 1976 | 2635 | 1507 | 2635 | 3294 | 1883 | 3294 | | | |
| G1-H63 | Innner port | 1665 | 952 | 1665 | 2220 | 1269 | 2220 | 2775 | 1587 | 2775 | | | |
| G2-H50 | Outer port | 1628 | 931 | 1628 | 2170 | 1241 | 2170 | 2713 | 1551 | 2713 | 4341 | 2482 | 4341 |
| G2-H50 | Innner port | 1221 | 698 | 1221 | 1628 | 931 | 1628 | 2035 | 1164 | 2035 | 3256 | 1862 | 3256 |
| G2-H63 | Outer port | 2584 | 1478 | 2584 | 3446 | 1970 | 3446 | 4307 | 2463 | 4307 | 6891 | 3941 | 6891 |
| G2-H63 | Innner port | 2177 | 1245 | 2177 | 2903 | 1660 | 2903 | 3629 | 2075 | 3629 | 5806 | 3320 | 5806 |
| G2-H80 | Outer port | 4167 | 2383 | 4167 | 5556 | 3177 | 5556 | 6945 | 3971 | 6945 | | | |
| G2-H80 | Innner port | 3581 | 2048 | 3581 | 4775 | 2730 | 4775 | 5968 | 3413 | 5968 | | | |
| G2-H100 | Outer port | 6511 | 3723 | 6511 | 8681 | 4964 | 8681 | | | | | | |
| G2-H100 | Innner port | 5713 | 3267 | 5713 | 7618 | 4356 | 7618 | | | | | | |
| G3-H2050 | Outer port | 3184 | 1821 | 3184 | 4245 | 2427 | 4245 | 5306 | 3034 | 5306 | 8490 | 4855 | 8490 |
| G3-H2050 | Innner port | 3184 | 1821 | 3184 | 4245 | 2427 | 4245 | 5306 | 3034 | 5306 | 8490 | 4855 | 8490 |
| G3-H63 | Outer port | 2888 | 1652 | 2888 | 3851 | 2202 | 3851 | 4814 | 2753 | 4814 | 7702 | 4404 | 7702 |

| Actuator model | Oil inlet | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | |
|----------------|-------------|---|-------|-------|---------|-------|-------|----------|-------|-------|----------|-------|-------|
| | | 60 barG | | | 80 barG | | | 100 barG | | | 160 barG | | |
| | | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| G3-H63 | Innner port | 2233 | 1277 | 2233 | 2978 | 1703 | 2978 | 3722 | 2128 | 3722 | 5956 | 3406 | 5956 |
| G3-H80 | Outer port | 4657 | 2663 | 4657 | 6210 | 3551 | 6210 | 7762 | 4439 | 7762 | 12420 | 7102 | 12420 |
| G3-H80 | Innner port | 4002 | 2289 | 4002 | 5337 | 3052 | 5337 | 6671 | 3815 | 6671 | 10673 | 6103 | 10673 |
| G3-H100 | Outer port | 7277 | 4161 | 7277 | 9703 | 5548 | 9703 | 12128 | 6935 | 12128 | | | |
| G3-H100 | Innner port | 6386 | 3652 | 6386 | 8514 | 4869 | 8514 | 10643 | 6086 | 10643 | | | |
| G3-H120 | Outer port | 11370 | 6502 | 11370 | 15161 | 8669 | 15161 | | | | | | |
| G3-H120 | Innner port | 10206 | 5836 | 10206 | 13608 | 7782 | 13608 | | | | | | |
| G4-H2063 | Outer port | 5292 | 3026 | 5292 | 7056 | 4035 | 7056 | 8820 | 5043 | 8820 | 14112 | 8070 | 14112 |
| G4-H2063 | Innner port | 5292 | 3026 | 5292 | 7056 | 4035 | 7056 | 8820 | 5043 | 8820 | 14112 | 8070 | 14112 |
| G4-H100 | Outer port | 8349 | 4775 | 8349 | 11133 | 6366 | 11133 | 13916 | 7958 | 13916 | 22265 | 12732 | 22265 |
| G4-H100 | Innner port | 6262 | 3581 | 6262 | 8349 | 4775 | 8349 | 10437 | 5968 | 10437 | 16699 | 9549 | 16699 |
| G4-H2080 | Outer port | 9936 | 5682 | 9936 | 13248 | 7576 | 13248 | 16560 | 9469 | 16560 | | | |
| G4-H2080 | Innner port | 9936 | 5682 | 9936 | 13248 | 7576 | 13248 | 16560 | 9469 | 16560 | | | |
| G4-H120 | Outer port | 13046 | 7460 | 13046 | 17395 | 9947 | 17395 | 21743 | 12434 | 21743 | | | |
| G4-H120 | Innner port | 10959 | 6267 | 10959 | 14612 | 8355 | 14612 | 18265 | 10444 | 18265 | | | |
| G4-H140 | Outer port | 16365 | 9358 | 16365 | 21820 | 12477 | 21820 | | | | | | |
| G4-H140 | Innner port | 14278 | 8164 | 14278 | 19037 | 10886 | 19037 | | | | | | |
| G5-H100 | Outer port | 11107 | 6351 | 11107 | 14810 | 8469 | 14810 | 18512 | 10586 | 18512 | 29619 | 16937 | 29619 |
| G5-H100 | Innner port | 8330 | 4764 | 8330 | 11107 | 6351 | 11107 | 13884 | 7939 | 13884 | 22214 | 12703 | 22214 |
| G5-H2080 | Outer port | 13217 | 7558 | 13217 | 17623 | 10078 | 17623 | 22029 | 12597 | 22029 | 35247 | 20155 | 35247 |
| G5-H2080 | Innner port | 13217 | 7558 | 13217 | 17623 | 10078 | 17623 | 22029 | 12597 | 22029 | 35247 | 20155 | 35247 |
| G5-H120 | Outer port | 17355 | 9924 | 17355 | 23140 | 13232 | 23140 | 28925 | 16540 | 28925 | 46280 | 26464 | 46280 |
| G5-H120 | Innner port | 14578 | 8336 | 14578 | 19437 | 11115 | 19437 | 24297 | 13894 | 24297 | 38875 | 22230 | 38875 |
| G5-H140 | Outer port | 21770 | 12449 | 21770 | 29027 | 16598 | 29027 | 36283 | 20748 | 36283 | | | |
| G5-H140 | Innner port | 18993 | 10861 | 18993 | 25324 | 14481 | 25324 | 31655 | 18102 | 31655 | | | |
| G7-H140 | Outer port | 26274 | 15024 | 26274 | 35032 | 20033 | 35032 | 43790 | 25041 | 43790 | 70064 | 40065 | 70064 |
| G7-H140 | Innner port | 19706 | 11268 | 19706 | 26274 | 15024 | 26274 | 32843 | 18781 | 32843 | 52548 | 30049 | 52548 |
| G7-H2100 | Outer port | 21984 | 12571 | 21984 | 29313 | 16762 | 29313 | 36641 | 20952 | 36641 | 58625 | 33524 | 58625 |
| G7-H2100 | Innner port | 21984 | 12571 | 21984 | 29313 | 16762 | 29313 | 36641 | 20952 | 36641 | 58625 | 33524 | 58625 |
| G7-H2125 | Outer port | 35323 | 20199 | 35323 | 47097 | 26932 | 47097 | 58871 | 33664 | 58871 | 94194 | 53863 | 94194 |
| G7-H2125 | Innner port | 35323 | 20199 | 35323 | 47097 | 26932 | 47097 | 58871 | 33664 | 58871 | 94194 | 53863 | 94194 |
| G7-H2140 | Outer port | 45980 | 26293 | 45980 | 61306 | 35057 | 61306 | 76633 | 43821 | 76633 | | | |
| G7-H2140 | Innner port | 45980 | 26293 | 45980 | 61306 | 35057 | 61306 | 76633 | 43821 | 76633 | | | |

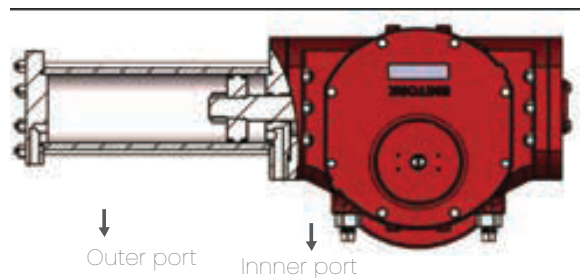
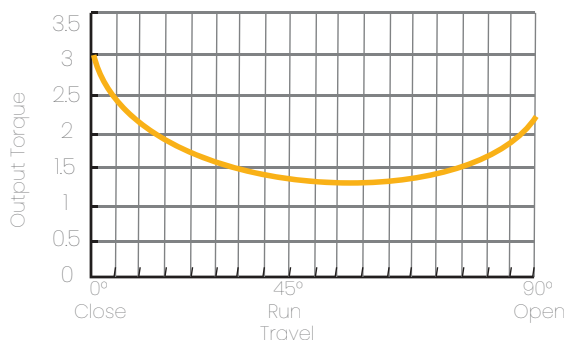
| Actuator model | Oil inlet | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | |
|-----------------|-------------|---|-------|--------|---------|--------|--------|----------|--------|--------|----------|--------|--------|
| | | 60 barG | | | 80 barG | | | 100 barG | | | 160 barG | | |
| | | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| G7-H160 | Outer port | 34317 | 19624 | 34317 | 45756 | 26165 | 45756 | 57195 | 32706 | 57195 | | | |
| G7-H160 | Innner port | 27749 | 15868 | 27749 | 36998 | 21157 | 36998 | 46248 | 26446 | 46248 | | | |
| G7-H180 | Outer port | 43433 | 24836 | 43433 | 57910 | 33115 | 57910 | 72388 | 41394 | 72388 | | | |
| G7-H180 | Innner port | 36864 | 21080 | 36864 | 49152 | 28107 | 49152 | 61440 | 35134 | 61440 | | | |
| G8-H160 | Outer port | 40788 | 23324 | 40788 | 54385 | 31099 | 54385 | 67981 | 38874 | 67981 | 108769 | 62198 | 108769 |
| G8-H160 | Innner port | 30591 | 17493 | 30591 | 40788 | 23324 | 40788 | 50986 | 29155 | 50986 | 81577 | 46648 | 81577 |
| G8-H2125 | Outer port | 39593 | 22641 | 39593 | 52791 | 30188 | 52791 | 65989 | 37735 | 65989 | 105583 | 60376 | 105583 |
| G8-H2125 | Innner port | 39593 | 22641 | 39593 | 52791 | 30188 | 52791 | 65989 | 37735 | 65989 | 105583 | 60376 | 105583 |
| G8-H180 | Outer port | 51623 | 29520 | 51623 | 68830 | 39360 | 68830 | 86038 | 49200 | 86038 | 137661 | 78719 | 137661 |
| G8-H180 | Innner port | 41426 | 23689 | 41426 | 55234 | 31585 | 55234 | 69043 | 39481 | 69043 | 110469 | 63170 | 110469 |
| G8-H2140 | Outer port | 52260 | 29884 | 52260 | 69680 | 39846 | 69680 | 87100 | 49807 | 87100 | 139360 | 79691 | 139360 |
| G8-H2140 | Innner port | 52260 | 29884 | 52260 | 69680 | 39846 | 69680 | 87100 | 49807 | 87100 | 139360 | 79691 | 139360 |
| G8-H2160 | Outer port | 71380 | 40817 | 71380 | 95173 | 54423 | 95173 | 118966 | 68029 | 118966 | | | |
| G8-H2160 | Innner port | 71380 | 40817 | 71380 | 95173 | 54423 | 95173 | 118966 | 68029 | 118966 | | | |
| G8-H200 | Outer port | 63732 | 36444 | 63732 | 84976 | 48592 | 84976 | 106220 | 60740 | 106220 | 169952 | 97184 | 169952 |
| G8-H200 | Innner port | 53535 | 30613 | 53535 | 71380 | 40817 | 71380 | 89225 | 51022 | 89225 | 142760 | 81635 | 142760 |
| G9-H180 | Outer port | 67010 | 38319 | 67010 | 89347 | 51092 | 89347 | 111684 | 63865 | 111684 | 178695 | 102184 | 178695 |
| G9-H180 | Innner port | 46328 | 26492 | 46328 | 61771 | 35323 | 61771 | 77214 | 44153 | 77214 | 123542 | 70645 | 123542 |
| G9-H200 | Outer port | 82729 | 47307 | 82729 | 110305 | 63076 | 110305 | 137882 | 78845 | 137882 | 220611 | 126153 | 220611 |
| G9-H200 | Innner port | 62047 | 35480 | 62047 | 82729 | 47307 | 82729 | 103411 | 59134 | 103411 | 165458 | 94614 | 165458 |
| G9-H220 | Outer port | 100102 | 57242 | 100102 | 133469 | 76322 | 133469 | 166837 | 95403 | 166837 | 266939 | 152645 | 266939 |
| G9-H220 | Innner port | 79420 | 45415 | 79420 | 105893 | 60553 | 105893 | 132366 | 75692 | 132366 | 211786 | 121107 | 211786 |
| G9-H2160 | Outer port | 85211 | 48726 | 85211 | 113614 | 64969 | 113614 | 142018 | 81211 | 142018 | 227229 | 129937 | 227229 |
| G9-H2160 | Innner port | 85211 | 48726 | 85211 | 113614 | 64969 | 113614 | 142018 | 81211 | 142018 | 227229 | 129937 | 227229 |
| G9-H2180 | Outer port | 113339 | 64811 | 113339 | 151118 | 86415 | 151118 | 188898 | 108018 | 188898 | 302236 | 172829 | 302236 |
| G9-H2180 | Innner port | 113339 | 64811 | 113339 | 151118 | 86415 | 151118 | 188898 | 108018 | 188898 | 302236 | 172829 | 302236 |
| G9-H2200 | Outer port | 144776 | 82788 | 144776 | 193034 | 110384 | 193034 | 241293 | 137979 | 241293 | | | |
| G9-H2200 | Innner port | 144776 | 82788 | 144776 | 193034 | 110384 | 193034 | 241293 | 137979 | 241293 | | | |

Note:

1. The standard configuration is to rotate the piston counterclockwise when it is pressurized inside and clockwise when it is pressurized outside. For special requirements, contact Elite technical department.
2. 0° is BTO and ETC, 45° is RTO and RTC, and 90° is ETO and BTC

BTS-Gxx-H Range Hydraulic Actuators

Double-Acting Torque Output



Canted Yoke Configuration

| Actuator model | Oil inlet | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | |
|------------------|-------------|---|------|------|---------|------|------|----------|------|------|----------|------|------|
| | | 60 barG | | | 80 barG | | | 100 barG | | | 160 barG | | |
| | | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| GC0-H32 | Outer port | 437 | 204 | 307 | 582 | 272 | 409 | 728 | 340 | 511 | 1164 | 545 | 818 |
| GC0-H32 | Innner port | 266 | 124 | 187 | 355 | 166 | 249 | 443 | 207 | 311 | 709 | 332 | 498 |
| GC0-H40 | Outer port | 682 | 319 | 479 | 910 | 426 | 639 | 1137 | 532 | 799 | | | |
| GC0-H40 | Innner port | 512 | 239 | 359 | 682 | 319 | 479 | 853 | 399 | 599 | | | |
| GC0-H50 | Outer port | 1066 | 499 | 749 | 1421 | 665 | 998 | | | | | | |
| GC0-H50 | Innner port | 895 | 419 | 629 | 1194 | 559 | 839 | | | | | | |
| GC1-H40 | Outer port | 964 | 451 | 677 | 1285 | 601 | 903 | 1607 | 752 | 1129 | 2571 | 1203 | 1806 |
| GC1-H40 | Innner port | 587 | 275 | 413 | 783 | 366 | 550 | 979 | 458 | 688 | 1566 | 733 | 1100 |
| GC1-H50 | Outer port | 1506 | 705 | 1058 | 2008 | 940 | 1411 | 2510 | 1174 | 1763 | 4016 | 1879 | 2821 |
| GC1-H50 | Innner port | 1130 | 529 | 794 | 1506 | 705 | 1058 | 1883 | 881 | 1323 | 3012 | 1409 | 2116 |
| GC1-H63 | Outer port | 2391 | 1119 | 1680 | 3188 | 1492 | 2240 | 3985 | 1865 | 2800 | | | |
| GC1-H63 | Innner port | 2015 | 943 | 1415 | 2686 | 1257 | 1887 | 3358 | 1571 | 2359 | | | |
| GC2-H50 | Outer port | 1970 | 922 | 1384 | 2626 | 1229 | 1845 | 3283 | 1536 | 2306 | 5252 | 2457 | 3690 |
| GC2-H50 | Innner port | 1477 | 691 | 1038 | 1970 | 922 | 1384 | 2462 | 1152 | 1730 | 3939 | 1843 | 2767 |
| GC2-H63 | Outer port | 3127 | 1463 | 2197 | 4169 | 1951 | 2929 | 5212 | 2438 | 3661 | | | |
| GC2-H63 | Innner port | 2635 | 1233 | 1851 | 3513 | 1643 | 2468 | 4391 | 2054 | 3085 | | | |
| GC2-H80 | Outer port | 5042 | 2359 | 3542 | 6723 | 3145 | 4723 | | | | | | |
| GC2-H80 | Innner port | 4333 | 2027 | 3044 | 5777 | 2703 | 4059 | | | | | | |
| GC2-H100 | Outer port | 7878 | 3686 | 5534 | | | | | | | | | |
| GC2-H100 | Innner port | 7169 | 3354 | 5036 | | | | | | | | | |
| GC3-H2050 | Outer port | 3610 | 1689 | 2536 | 4814 | 2252 | 3381 | 6017 | 2815 | 4227 | 9627 | 4504 | 6763 |
| GC3-H2050 | Innner port | 3610 | 1689 | 2536 | 4814 | 2252 | 3381 | 6017 | 2815 | 4227 | 9627 | 4504 | 6763 |

| Actuator model | Oil inlet | Torque outputs at different oil supply pressure (UnitNm) | | | | | | | | | | | |
|------------------|-------------|--|-------|-------|---------|-------|-------|----------|-------|-------|----------|-------|-------|
| | | 60 barG | | | 80 barG | | | 100 barG | | | 160 barG | | |
| | | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| GC3-H63 | Outer port | 3495 | 1635 | 2455 | 4660 | 2180 | 3273 | 5825 | 2725 | 4092 | 9319 | 4360 | 6547 |
| GC3-H63 | Innner port | 2702 | 1264 | 1898 | 3603 | 1686 | 2531 | 4504 | 2107 | 3164 | 7206 | 3372 | 5062 |
| GC3-H80 | Outer port | 5635 | 2637 | 3959 | 7514 | 3515 | 5278 | 9392 | 4394 | 6598 | | | |
| GC3-H80 | Innner port | 4843 | 2266 | 3402 | 6457 | 3021 | 4536 | 8071 | 3776 | 5670 | | | |
| GC3-H100 | Outer port | 8805 | 4120 | 6186 | 11740 | 5493 | 8247 | | | | | | |
| GC3-H100 | Innner port | 7396 | 3461 | 5196 | 9862 | 4614 | 6928 | | | | | | |
| GC3-H125 | Outer port | 13758 | 6437 | 9665 | | | | | | | | | |
| GC3-H125 | Innner port | 12349 | 5778 | 8675 | | | | | | | | | |
| GC4-H2063 | Outer port | 6403 | 2996 | 4498 | 8538 | 3994 | 5997 | 10672 | 4993 | 7497 | 17075 | 7989 | 11995 |
| GC4-H2063 | Innner port | 6403 | 2996 | 4498 | 8538 | 3994 | 5997 | 10672 | 4993 | 7497 | 17075 | 7989 | 11995 |
| GC4-H100 | Outer port | 10103 | 4727 | 7097 | 13471 | 6302 | 9463 | 16838 | 7878 | 11828 | 26941 | 12605 | 18926 |
| GC4-H100 | Innner port | 7577 | 3545 | 5323 | 10103 | 4727 | 7097 | 12629 | 5908 | 8871 | 20206 | 9454 | 14194 |
| GC4-H2080 | Outer port | 11315 | 5294 | 7949 | 15087 | 7059 | 10598 | 18859 | 8823 | 13248 | | | |
| GC4-H2080 | Innner port | 11315 | 5294 | 7949 | 15087 | 7059 | 10598 | 18859 | 8823 | 13248 | | | |
| GC4-H125 | Outer port | 15786 | 7386 | 11089 | 21048 | 9847 | 14786 | 26310 | 12309 | 18482 | | | |
| GC4-H125 | Innner port | 13260 | 6204 | 9315 | 17680 | 8272 | 12420 | 22100 | 10340 | 15525 | | | |
| GC4-H140 | Outer port | 19802 | 9264 | 13910 | | | | | | | | | |
| GC4-H140 | Innner port | 17276 | 8083 | 12136 | | | | | | | | | |
| GC5-H100 | Outer port | 13440 | 6288 | 9441 | 17919 | 8384 | 12588 | 22399 | 10480 | 15735 | 35839 | 16768 | 25176 |
| GC5-H100 | Innner port | 8601 | 4024 | 6042 | 11468 | 5366 | 8056 | 14336 | 6707 | 10070 | 22937 | 10731 | 16113 |
| GC5-H2080 | Outer port | 12364 | 5785 | 8686 | 16486 | 773 | 11581 | 20607 | 9641 | 14476 | 32972 | 15426 | 23162 |
| GC5-H2080 | Innner port | 12364 | 5785 | 8686 | 16486 | 773 | 11581 | 20607 | 9641 | 14476 | 32972 | 15426 | 23162 |
| GC5-H120 | Outer port | 20999 | 9825 | 14752 | 27999 | 13100 | 19669 | 34999 | 16375 | 24586 | 55998 | 26200 | 39338 |
| GC5-H120 | Innner port | 16161 | 7561 | 11353 | 21548 | 10082 | 15137 | 26935 | 12602 | 18921 | 43096 | 20163 | 30274 |
| GC5-H140 | Outer port | 26342 | 12324 | 18504 | 35122 | 16432 | 24673 | 43903 | 20541 | 30841 | | | |
| GC5-H140 | Innner port | 21503 | 10061 | 15106 | 28671 | 13414 | 20141 | 35839 | 16768 | 25176 | | | |
| GC7-H140 | Outer port | 31792 | 14874 | 22333 | 42389 | 19832 | 29777 | 52986 | 24790 | 37222 | 84778 | 39664 | 59555 |
| GC7-H140 | Innner port | 23844 | 11156 | 16750 | 31792 | 14874 | 22333 | 39740 | 18593 | 27916 | 63583 | 29748 | 44666 |
| GC7-H2100 | Outer port | 26601 | 12446 | 18687 | 35468 | 16594 | 24916 | 44335 | 20743 | 31145 | 70936 | 33189 | 49831 |
| GC7-H2100 | Innner port | 26601 | 12446 | 18687 | 35468 | 16594 | 24916 | 44335 | 20743 | 31145 | 70936 | 33189 | 49831 |
| GC7-H2125 | Outer port | 42740 | 19997 | 30024 | 56987 | 26662 | 40032 | 71234 | 33328 | 50040 | | | |
| GC7-H2125 | Innner port | 42740 | 19997 | 30024 | 56987 | 26662 | 40032 | 71234 | 33328 | 50040 | | | |

| Actuator model | Oil inlet | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | |
|------------------|-------------|---|-------|--------|---------|--------|--------|----------|--------|--------|----------|--------|--------|
| | | 60 barG | | | 80 barG | | | 100 barG | | | 160 barG | | |
| | | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° | 0° | 45° | 90° |
| GC7-H2140 | Outer port | 55635 | 26030 | 39083 | 74181 | 34706 | 52110 | 92726 | 43383 | 65138 | | | |
| GC7-H2140 | Innner port | 55635 | 26030 | 39083 | 74181 | 34706 | 52110 | 92726 | 43383 | 65138 | | | |
| GC7-H160 | Outer port | 41524 | 19428 | 29170 | 55365 | 25903 | 38893 | 69206 | 32379 | 48616 | | | |
| GC7-H160 | Innner port | 33576 | 15709 | 23586 | 44768 | 20945 | 31448 | 55960 | 26182 | 39311 | | | |
| GC7-H180 | Outer port | 52554 | 24588 | 36918 | 70071 | 32784 | 49224 | 87589 | 40980 | 61530 | | | |
| GC7-H180 | Innner port | 44606 | 20869 | 31335 | 59474 | 27826 | 41779 | 74343 | 34782 | 52224 | | | |
| GC8-H160 | Outer port | 49354 | 23091 | 34670 | 65805 | 30788 | 46227 | 82257 | 38485 | 57784 | 131611 | 61576 | 92454 |
| GC8-H160 | Innner port | 37016 | 17318 | 26003 | 49354 | 23091 | 34670 | 61693 | 28864 | 43338 | 98708 | 46182 | 69340 |
| GC8-H2125 | Outer port | 47908 | 22414 | 33654 | 63877 | 29886 | 44873 | 79847 | 37357 | 56091 | 127755 | 59772 | 89745 |
| GC8-H2125 | Innner port | 47908 | 22414 | 33654 | 63877 | 29886 | 44873 | 79847 | 37357 | 56091 | 127755 | 59772 | 89745 |
| GC8-H180 | Outer port | 62464 | 29225 | 43879 | 83285 | 38966 | 58506 | 104106 | 48708 | 73132 | 166570 | 77932 | 117012 |
| GC8-H180 | Innner port | 50125 | 23452 | 35212 | 66834 | 31269 | 46949 | 83542 | 39086 | 58686 | 133667 | 62538 | 93898 |
| GC8-H2140 | Outer port | 63235 | 29585 | 44421 | 84313 | 39447 | 59228 | 105391 | 49309 | 74035 | 168626 | 78894 | 118456 |
| GC8-H2140 | Innner port | 63235 | 29585 | 44421 | 84313 | 39447 | 59228 | 105391 | 49309 | 74035 | 168626 | 78894 | 118456 |
| GC8-H2160 | Outer port | 86370 | 40409 | 60673 | 115159 | 53879 | 80897 | 143949 | 67349 | 101121 | | | |
| GC8-H2160 | Innner port | 86370 | 40409 | 60673 | 115159 | 53879 | 80897 | 143949 | 67349 | 101121 | | | |
| GC8-H200 | Outer port | 77116 | 36080 | 54172 | 102821 | 48106 | 72230 | 128526 | 60133 | 90287 | | | |
| GC8-H200 | Innner port | 64777 | 30307 | 45505 | 86370 | 40409 | 60673 | 107962 | 50512 | 75841 | | | |
| GC9-H180 | Outer port | 81083 | 37936 | 56959 | 108110 | 50581 | 75945 | 135138 | 63226 | 94931 | 216220 | 101162 | 151890 |
| GC9-H180 | Innner port | 56057 | 26227 | 39379 | 74743 | 34970 | 52505 | 93429 | 43712 | 65632 | 149486 | 69939 | 105011 |
| GC9-H200 | Outer port | 100102 | 46834 | 70320 | 133469 | 62446 | 93759 | 166837 | 78057 | 117199 | 266939 | 124891 | 187519 |
| GC9-H200 | Innner port | 75077 | 35126 | 52740 | 100102 | 46834 | 70320 | 125128 | 58543 | 87900 | 200204 | 93668 | 140639 |
| GC9-H220 | Outer port | 121123 | 56669 | 85087 | 161498 | 75559 | 113449 | 201872 | 94449 | 141811 | 322996 | 151118 | 226898 |
| GC9-H220 | Innner port | 96098 | 44961 | 67507 | 128131 | 59948 | 90009 | 160163 | 74935 | 112511 | 256261 | 119895 | 180018 |
| GC9-H2160 | Outer port | 103105 | 48239 | 72429 | 137473 | 64319 | 96572 | 171842 | 80399 | 120715 | 274947 | 128638 | 193145 |
| GC9-H2160 | Innner port | 103105 | 48239 | 72429 | 137473 | 64319 | 96572 | 171842 | 80399 | 120715 | 274947 | 128638 | 193145 |
| GC9-H2180 | Outer port | 137140 | 64163 | 96338 | 182853 | 85550 | 128450 | 228566 | 106938 | 160563 | | | |
| GC9-H2180 | Innner port | 137140 | 64163 | 96338 | 182853 | 85550 | 128450 | 228566 | 106938 | 160563 | | | |
| GC9-H2200 | Outer port | 175179 | 81960 | 123059 | 233571 | 109280 | 164079 | 291964 | 136600 | 205099 | | | |
| GC9-H2200 | Innner port | 175179 | 81960 | 123059 | 233571 | 109280 | 164079 | 291964 | 136600 | 205099 | | | |

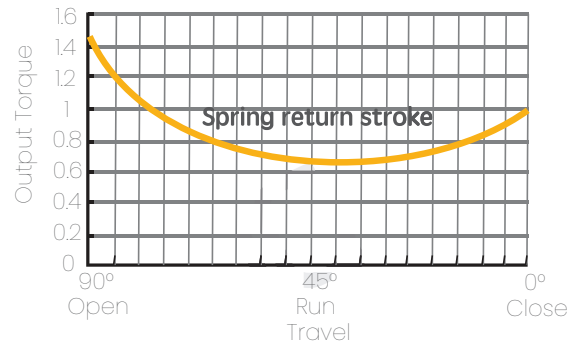
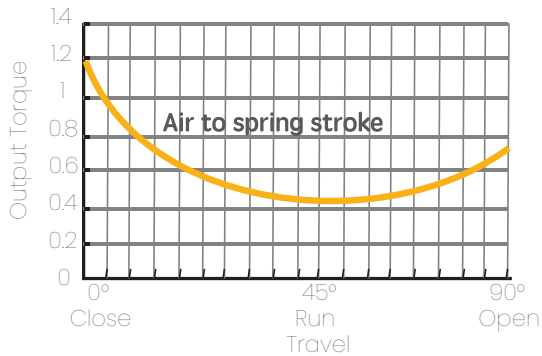
Note:

1. The standard configuration is to rotate the piston counterclockwise when it is pressurized inside and clockwise when it is pressurized outside. For special requirements, contact Elite Technical department.

2. 0° is BTO and ETC, 45° is RTO and RTC, and 90° is ETO and BTC

BTS-Gxx-H Range Hydraulic Actuators

Single-Return Torque Output
Symmetric Yoke Configuration



Air Open (FC)

| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|--------------------|---|----------|---------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| G0-H40 SR4 | 461 | 218 | 301 | | | | 262 | 104 | 103 | 403 | 185 | 244 | 826 | 427 | 667 |
| G0-H40 SR5 | 571 | 272 | 381 | | | | | | | 324 | 131 | 134 | 747 | 373 | 557 |
| G0-H40 SR6 | 705 | 336 | 470 | | | | | | | | | | 658 | 309 | 423 |
| G0-H50 SR4 | 461 | 218 | 301 | 439 | 205 | 279 | 685 | 346 | 526 | 932 | 487 | 772 | | | |
| G0-H50 SR5 | 571 | 272 | 381 | 359 | 151 | 169 | 606 | 292 | 416 | 853 | 433 | 662 | 1593 | 856 | 1402 |
| G0-H50 SR6 | 705 | 336 | 470 | | | | 517 | 228 | 282 | 763 | 369 | 529 | 1503 | 793 | 1269 |
| G1-H40 SR4 | 797 | 380 | 531 | | | | | | | | | | 763 | 361 | 498 |
| G1-H50 SR4 | 797 | 380 | 531 | | | | 714 | 332 | 448 | 1025 | 510 | 759 | 1958 | 1044 | 1693 |
| G1-H50 SR5 | 996 | 475 | 664 | | | | 581 | 237 | 249 | 892 | 415 | 560 | 1826 | 949 | 1494 |
| G1-H50 SR6 | 1190 | 578 | 830 | | | | | | | 726 | 312 | 366 | 1660 | 846 | 1299 |
| G1-H50 SR7 | 1603 | 786 | 1146 | | | | | | | | | | 1343 | 637 | 886 |
| G1-H63 SR4 | 797 | 380 | 531 | 1134 | 572 | 868 | 1689 | 890 | 1423 | 2244 | 1207 | 1978 | 3909 | 2159 | 3643 |
| G1-H63 SR5 | 996 | 475 | 664 | 1001 | 478 | 669 | 1556 | 795 | 1224 | 2111 | 1112 | 1779 | 3776 | 2064 | 3444 |
| G1-H63 SR6 | 1190 | 578 | 830 | 835 | 375 | 475 | 1390 | 692 | 1030 | 1945 | 1009 | 1585 | 3610 | 1961 | 3250 |
| G1-H63 SR7 | 1603 | 786 | 1146 | | | | 1074 | 483 | 617 | 1629 | 801 | 1172 | 3293 | 1753 | 2837 |
| G1-H63 SR8 | 2308 | 1083 | 1480 | | | | | | | | | | 2960 | 1456 | 2132 |
| G2-H50 SR4 | 1603 | 769 | 1085 | | | | | | | | | | 2170 | 1093 | 1652 |
| G2-H50 SR5 | 2035 | 1019 | 1530 | | | | | | | | | | 1726 | 842 | 1220 |
| G2-H63 SR4 | 1603 | 769 | 1085 | 1092 | 476 | 574 | 1818 | 891 | 1300 | 2544 | 1306 | 2026 | 4721 | 2552 | 4203 |
| G2-H63 SR5 | 2374 | 1164 | 1696 | | | | | | | 1933 | 912 | 1255 | 4111 | 2157 | 3432 |
| G2-H63 SR6 | 2035 | 1019 | 1530 | | | | 1373 | 641 | 868 | 2099 | 1056 | 1594 | 4276 | 2301 | 3771 |
| G2-H63 SR7 | 2848 | 1414 | 2096 | | | | | | | | | | 3710 | 1907 | 2958 |
| G2-H80 SR4 | 1603 | 769 | 1085 | 2496 | 1279 | 1978 | 3690 | 1962 | 3172 | 4883 | 2644 | 4365 | | | |
| G2-H80 SR5 | 2374 | 1164 | 1696 | 1885 | 884 | 1207 | 3079 | 1567 | 2401 | 4273 | 2249 | 3595 | | | |
| G2-H80 SR6 | 2035 | 1019 | 1530 | 2051 | 1028 | 1546 | 3245 | 1711 | 2739 | 4439 | 2394 | 3933 | | | |
| G2-H80 SR7 | 2848 | 1414 | 2096 | | | | 2679 | 1317 | 1927 | 3872 | 1999 | 3121 | 7454 | 4047 | 6702 |
| G2-H100 SR4 | 1603 | 769 | 1085 | 4840 | 2620 | 4322 | 6815 | 3749 | 6297 | 8790 | 4878 | 8272 | | | |

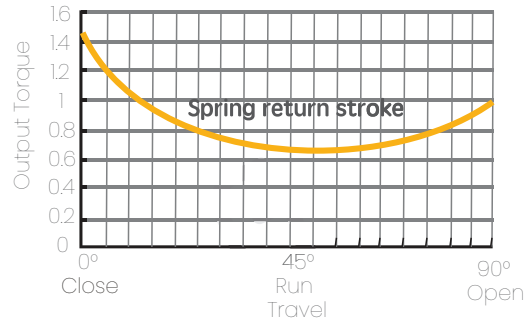
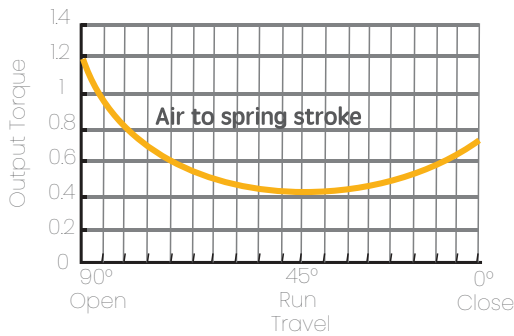
| Actuator model | Torque outputs at different oil supply pressure (UnitNm) | | | | | | | | | | | | | | |
|---------------------|--|----------|---------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| G2-H100 SR5 | 2374 | 1164 | 1696 | 4229 | 2225 | 3551 | 6205 | 3354 | 5526 | 4483 | 7501 | 6619 | | | |
| G2-H100 SR6 | 2035 | 1019 | 1530 | 4395 | 2369 | 3890 | 6370 | 3498 | 5865 | 4628 | 7840 | 6917 | | | |
| G2-H100 SR7 | 2848 | 1414 | 2096 | 3829 | 1975 | 3077 | 5804 | 3104 | 5052 | 4233 | 7027 | 6200 | | | |
| G3-H2050 SR4 | 3336 | 1634 | 2377 | | | | | | | 1210 | 1637 | 1533 | 5579 | 2916 | 4620 |
| G3-H2050 SR5 | 4547 | 2192 | 3120 | | | | | | | | | | 4836 | 2358 | 3409 |
| G3-H2050 SR6 | 5805 | 2783 | 3930 | | | | | | | | | | 4027 | 1766 | 2151 |
| G3-H63 SR4 | 3336 | 1634 | 2377 | | | | | | | | | | 3578 | 1772 | 2619 |
| G3-H63 SR5 | 4547 | 2192 | 3120 | | | | | | | | | | 2836 | 1214 | 1409 |
| G3-H80 SR4 | 3336 | 1634 | 2377 | | | | 2959 | 1418 | 2000 | 2181 | 3335 | 3124 | 8296 | 4470 | 7337 |
| G3-H80 SR5 | 4547 | 2192 | 3120 | | | | 2216 | 860 | 790 | 1622 | 2124 | 1990 | 7553 | 3911 | 6126 |
| G3-H80 SR6 | 5805 | 2783 | 3930 | | | | | | | | | | 6743 | 3320 | 4868 |
| G3-H80 SR7 | 6921 | 3253 | 4455 | | | | | | | | | | 6219 | 2851 | 3752 |
| G3-H100 SR4 | 3336 | 1634 | 2377 | 3736 | 1862 | 2777 | 5773 | 3027 | 4814 | 4192 | 6852 | 6419 | | | |
| G3-H100 SR5 | 4547 | 2192 | 3120 | 2993 | 1303 | 1566 | 5030 | 2469 | 3604 | 3634 | 5641 | 5285 | | | |
| G3-H100 SR6 | 5805 | 2783 | 3930 | | | | 4221 | 1877 | 2345 | 3042 | 4383 | 4106 | 12371 | 6538 | 10496 |
| G3-H100 SR7 | 6921 | 3253 | 4455 | | | | | | | 2573 | 3266 | 3060 | 11846 | 6069 | 9379 |
| G3-H100 SR8 | 9096 | 4335 | 6064 | | | | | | | | | | 10236 | 4987 | 7204 |
| G3-H125 SR4 | 3336 | 1634 | 2377 | 7829 | 4203 | 6870 | 11231 | 6148 | 10272 | | | | | | |
| G3-H125 SR5 | 4547 | 2192 | 3120 | 7086 | 3644 | 5659 | 10488 | 5590 | 9061 | | | | | | |
| G3-H125 SR6 | 5805 | 2783 | 3930 | 6276 | 3053 | 4401 | 9679 | 4998 | 7803 | | | | | | |
| G3-H125 SR7 | 6921 | 3253 | 4455 | 5752 | 2584 | 3285 | 9154 | 4529 | 6687 | 6474 | 10089 | 9452 | | | |
| G3-H125 SR8 | 9096 | 4335 | 6064 | 4142 | 1502 | 1110 | 7544 | 3447 | 4512 | 5392 | 7914 | 7414 | | | |
| G4-H2063 SR4 | 5109 | 2479 | 3562 | | | | | | | 2564 | 3710 | 3710 | 10549 | 5590 | 9002 |
| G4-H2063 SR5 | 6661 | 3194 | 4509 | | | | | | | 1850 | 2159 | 2159 | 9603 | 4876 | 7451 |
| G4-H2063 SR6 | 8217 | 3976 | 5690 | | | | | | | | | | 8422 | 4093 | 5895 |
| G4-H2063 SR7 | 9426 | 4548 | 6480 | | | | | | | | | | 7631 | 3522 | 4686 |
| G4-H100 SR4 | 5109 | 2479 | 3562 | 2700 | 1101 | 1153 | 4787 | 2295 | 3240 | 3489 | 5327 | 5327 | 13137 | 7070 | 11590 |
| G4-H100 SR5 | 6661 | 3194 | 4509 | | | | 3841 | 1581 | 1689 | 2775 | 3776 | 3776 | 12190 | 6356 | 10038 |
| G4-H100 SR6 | 8217 | 3976 | 5690 | | | | | | | | | | 11009 | 5573 | 8482 |
| G4-H100 SR7 | 9426 | 4548 | 6480 | | | | | | | | | | 10219 | 5001 | 7273 |
| G4-H2080 SR4 | 5109 | 2479 | 3562 | 5789 | 2868 | 4242 | 8906 | 4651 | 7359 | 6433 | 10476 | 10476 | 21375 | 11780 | 19828 |
| G4-H2080 SR5 | 6661 | 3194 | 4509 | 4843 | 2154 | 2691 | 7960 | 3936 | 5808 | 5719 | 8925 | 8925 | 20428 | 11066 | 18277 |
| G4-H2080 SR6 | 8217 | 3976 | 5690 | | | | 6778 | 3154 | 4252 | 4936 | 7369 | 7369 | 19247 | 10284 | 16720 |
| G4-H2080 SR7 | 9426 | 4548 | 6480 | | | | 5988 | 2582 | 3043 | 4365 | 6160 | 6160 | 18457 | 9712 | 15511 |
| G4-H120 SR4 | 5109 | 2479 | 3562 | 6373 | 3202 | 4826 | 9685 | 5096 | 8138 | 6990 | 11450 | 11450 | 22933 | 12672 | 21386 |
| G4-H120 SR5 | 6661 | 3194 | 4509 | 5427 | 2488 | 3275 | 8739 | 4382 | 6587 | 6276 | 9899 | 9899 | 21987 | 11958 | 19835 |
| G4-H120 SR6 | 8217 | 3976 | 5690 | | | | 7558 | 3599 | 5031 | 5493 | 8343 | 8343 | 20806 | 11175 | 18279 |
| G4-H120 SR7 | 9426 | 4548 | 6480 | | | | 6767 | 3028 | 3822 | 4922 | 7134 | 7134 | 20015 | 10603 | 17070 |
| G4-H140 SR4 | 5109 | 2479 | 3562 | 10715 | 5685 | 9168 | 15474 | 8406 | 13927 | 11128 | 18687 | 18687 | | | |

| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|---------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| G4-H140 SR5 | 6661 | 3194 | 4509 | 9769 | 4971 | 7617 | 14528 | 7692 | 12376 | 19287 | 10414 | 17135 | | | |
| G4-H140 SR6 | 8217 | 3976 | 5690 | 8588 | 4188 | 6061 | 13347 | 6910 | 10820 | 18106 | 9631 | 15579 | | | |
| G4-H140 SR7 | 9426 | 4548 | 6480 | 7797 | 3617 | 4852 | 12556 | 6338 | 9611 | 17316 | 9059 | 14370 | | | |
| G5-H100 SR4 | 10939 | 5202 | 7257 | | | | | | | | | | 11700 | 5637 | 8017 |
| G5-H100 SR5 | 13738 | 6417 | 8706 | | | | | | | | | | 10250 | 4423 | 5218 |
| G5-H2080 SR4 | 10939 | 5202 | 7257 | | | | | | | 9774 | 4536 | 6092 | 19993 | 10380 | 16311 |
| G5-H2080 SR5 | 13738 | 6417 | 8706 | | | | | | | 8325 | 3322 | 3293 | 18543 | 9165 | 13512 |
| G5-H2080 SR6 | 16408 | 7514 | 9873 | | | | | | | | | | 17376 | 8068 | 10841 |
| G5-H120 SR4 | 10939 | 5202 | 7257 | | | | 10552 | 4981 | 6870 | 15004 | 7527 | 11322 | 28360 | 15165 | 24678 |
| G5-H120 SR5 | 13738 | 6417 | 8706 | | | | 9102 | 3766 | 4070 | 13554 | 6312 | 8523 | 26911 | 13950 | 21879 |
| G5-H120 SR6 | 16408 | 7514 | 9873 | | | | | | | 12388 | 5215 | 5852 | 25744 | 12853 | 19209 |
| G5-H120 SR7 | 20998 | 10153 | 14513 | | | | | | | | | | 21104 | 10214 | 14619 |
| G5-H140 SR4 | 10939 | 5202 | 7257 | 10515 | 4960 | 6833 | 16439 | 8347 | 12756 | 22362 | 11735 | 18680 | 40134 | 21897 | 36452 |
| G5-H140 SR5 | 13738 | 6417 | 8706 | 9065 | 3745 | 4033 | 14989 | 7133 | 9957 | 20913 | 10520 | 15881 | 38684 | 20682 | 33652 |
| G5-H140 SR6 | 16408 | 7514 | 9873 | | | | 13822 | 6035 | 7287 | 19746 | 9423 | 13211 | 37517 | 19585 | 30982 |
| G5-H140 SR7 | 20998 | 10153 | 14513 | | | | | | | 15106 | 6784 | 8621 | 32877 | 16946 | 26392 |
| G7-H140 SR4 | 19011 | 9115 | 12869 | | | | 13405 | 5909 | 7263 | 19974 | 9666 | 13832 | 39679 | 20934 | 33537 |
| G7-H140 SR5 | 24122 | 11358 | 15604 | | | | | | | 17239 | 7422 | 8721 | 36945 | 18691 | 28426 |
| G7-H140 SR6 | 25876 | 12156 | 16640 | | | | | | | 16202 | 6624 | 6967 | 35908 | 17893 | 26672 |
| G7-H140 SR7 | 31847 | 15366 | 21895 | | | | | | | | | | 30653 | 14683 | 20701 |
| G7-H2100 SR4 | 19011 | 9115 | 12869 | | | | 16444 | 7647 | 10302 | 23772 | 11837 | 17630 | 45756 | 24409 | 39614 |
| G7-H2100 SR5 | 24122 | 11358 | 15604 | | | | 13709 | 5404 | 5191 | 21037 | 9594 | 12519 | 43022 | 22166 | 34503 |
| G7-H2100 SR6 | 25876 | 12156 | 16640 | | | | | | | 20000 | 8796 | 10765 | 41985 | 21368 | 32749 |
| G7-H2100 SR7 | 31847 | 15366 | 21895 | | | | | | | | | | 36730 | 18158 | 26778 |
| G7-H2125 SR4 | 19011 | 9115 | 12869 | 22454 | 11084 | 16312 | 34228 | 17817 | 28086 | 46002 | 24549 | 39860 | 81325 | 44748 | 75183 |
| G7-H2125 SR5 | 24122 | 11358 | 15604 | 19719 | 8841 | 11201 | 31493 | 15573 | 22975 | 43267 | 22306 | 34749 | 78590 | 42505 | 70072 |
| G7-H2125 SR6 | 25876 | 12156 | 16640 | 18682 | 8043 | 9447 | 30457 | 14775 | 21221 | 42231 | 21508 | 32995 | 77553 | 41707 | 68318 |
| G7-H2125 SR7 | 31847 | 15366 | 21895 | | | | 25202 | 11566 | 15249 | 36976 | 18299 | 27024 | 72298 | 38497 | 62346 |
| G7-H2140 SR4 | 19011 | 9115 | 12869 | 33111 | 17178 | 26969 | 48437 | 25942 | 42295 | 63764 | 34706 | 57622 | 109744 | 60999 | 103602 |
| G7-H2140 SR5 | 24122 | 11358 | 15604 | 30376 | 14935 | 21858 | 45703 | 23699 | 37184 | 61029 | 32463 | 52511 | 107009 | 58756 | 98491 |
| G7-H2140 SR6 | 25876 | 12156 | 16640 | 29339 | 14137 | 20104 | 44666 | 22901 | 35430 | 59993 | 31665 | 50757 | 105972 | 57958 | 96736 |
| G7-H2140 SR7 | 31847 | 15366 | 21895 | 24085 | 10927 | 14132 | 39411 | 19691 | 29459 | 54738 | 28455 | 44785 | 100717 | 54748 | 90765 |
| G7-H160 SR4 | 19011 | 9115 | 12869 | 14880 | 6753 | 8738 | 24129 | 12042 | 17987 | 33379 | 17331 | 27237 | 61128 | 33199 | 54986 |
| G7-H160 SR5 | 24122 | 11358 | 15604 | | | | 21395 | 9799 | 12876 | 30644 | 15088 | 22126 | 58393 | 30956 | 49875 |
| G7-H160 SR6 | 25876 | 12156 | 16640 | | | | 20358 | 9001 | 11122 | 29608 | 14290 | 20372 | 57356 | 30158 | 48120 |
| G7-H160 SR7 | 31847 | 15366 | 21895 | | | | | | | 24353 | 11080 | 14400 | 52101 | 26948 | 42149 |
| G7-H180 SR4 | 19011 | 9115 | 12869 | 23995 | 11965 | 17853 | 36283 | 18992 | 30141 | 48571 | 26019 | 42429 | 85436 | 47099 | 79294 |
| G7-H180 SR5 | 24122 | 11358 | 15604 | 21261 | 9722 | 12742 | 33549 | 16749 | 25030 | 45837 | 23776 | 37319 | 82701 | 44856 | 74183 |
| G7-H180 SR6 | 25876 | 12156 | 16640 | 20224 | 8924 | 10988 | 32512 | 15951 | 23276 | 44800 | 22978 | 35564 | 81664 | 44058 | 72428 |
| G7-H180 SR7 | 31847 | 15366 | 21895 | | | | 27257 | 12741 | 17305 | 39545 | 19768 | 29593 | 76409 | 40848 | 66457 |
| G8-H160 SR4 | 37853 | 18263 | 26024 | | | | | | | 24962 | 10892 | 13133 | 55553 | 28385 | 43724 |
| G8-H160 SR5 | 50429 | 23254 | 30900 | | | | | | | | | | 50677 | 23395 | 31148 |
| G8-H160 SR6 | 59453 | 28025 | 38564 | | | | | | | | | | 43013 | 18624 | 22124 |

| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|---------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| G8-H2125 SR4 | 37853 | 18263 | 26024 | | | | 26767 | 11924 | 14938 | 39965 | 19471 | 28136 | 79559 | 42112 | 67730 |
| G8-H2125 SR5 | 50429 | 23254 | 30900 | | | | | | | 35089 | 14481 | 15560 | 74682 | 37122 | 55153 |
| G8-H2125 SR6 | 59453 | 28025 | 38564 | | | | | | | | | | 67019 | 32351 | 46130 |
| G8-H2125 SR7 | 79665 | 36444 | 47799 | | | | | | | | | | 57784 | 23932 | 25918 |
| G8-H180 SR4 | 37853 | 18263 | 26024 | | | | 29210 | 13321 | 17381 | 43019 | 21218 | 31190 | 84445 | 44906 | 72616 |
| G8-H180 SR5 | 50429 | 23254 | 30900 | | | | | | | 38143 | 16228 | 18614 | 79568 | 39916 | 60039 |
| G8-H180 SR6 | 59453 | 28025 | 38564 | | | | | | | | | | 71905 | 35145 | 51016 |
| G8-H180 SR7 | 79665 | 36444 | 47799 | | | | | | | | | | 62670 | 26726 | 30804 |
| G8-H2140 SR4 | 37853 | 18263 | 26024 | 26236 | 11621 | 14407 | 43656 | 21582 | 31827 | 61076 | 31543 | 49247 | 113337 | 61428 | 101508 |
| G8-H2140 SR5 | 50429 | 23254 | 30900 | | | | 38780 | 16592 | 19251 | 56200 | 26553 | 36671 | 108460 | 56438 | 88931 |
| G8-H2140 SR6 | 59453 | 28025 | 38564 | | | | | | | 48536 | 21782 | 27648 | 100797 | 51666 | 79908 |
| G8-H2140 SR7 | 79665 | 36444 | 47799 | | | | | | | | | | 91562 | 43247 | 59696 |
| G8-H2160 SR4 | 37853 | 18263 | 26024 | 45356 | 22554 | 33527 | 69149 | 36160 | 57320 | 92942 | 49766 | 81113 | 164322 | 90583 | 152493 |
| G8-H2160 SR5 | 50429 | 23254 | 30900 | 40479 | 17564 | 20950 | 64273 | 31170 | 44744 | 88066 | 44775 | 68537 | 159446 | 85593 | 139917 |
| G8-H2160 SR6 | 59453 | 28025 | 38564 | 32816 | 12793 | 11927 | 56609 | 26399 | 35720 | 80402 | 40004 | 59514 | 151782 | 80822 | 130893 |
| G8-H2160 SR7 | 79665 | 36444 | 47799 | | | | 47374 | 17979 | 15508 | 71167 | 31585 | 39301 | 142547 | 72402 | 110681 |
| G8-H200 SR4 | 37853 | 18263 | 26024 | 27511 | 12350 | 15682 | 45356 | 22554 | 33527 | 63201 | 32758 | 51372 | 116736 | 63371 | 104907 |
| G8-H200 SR5 | 50429 | 23254 | 30900 | | | | 40479 | 17564 | 20950 | 58324 | 27768 | 38795 | 11859 | 58381 | 92330 |
| G8-H200 SR6 | 59453 | 28025 | 38564 | | | | 32816 | 12793 | 11927 | 50661 | 22997 | 29772 | 104196 | 53610 | 83307 |
| G8-H200 SR7 | 79665 | 36444 | 47799 | | | | | | | | | | 94961 | 45191 | 63095 |
| G9-H180 SR4 | 65894 | 30416 | 40485 | | | | | | | 36728 | 13738 | 11320 | 83056 | 40230 | 57648 |
| G9-H180 SR5 | 81236 | 37539 | 50059 | | | | | | | | | | 73483 | 33106 | 42306 |
| G9-H200 SR4 | 65894 | 30416 | 40485 | | | | | | | 62926 | 28718 | 37518 | 124972 | 64199 | 99564 |
| G9-H200 SR5 | 81236 | 37539 | 50059 | | | | | | | 53352 | 21595 | 22175 | 115399 | 57075 | 84222 |
| G9-H200 SR6 | 100102 | 46509 | 62564 | | | | | | | | | | 102894 | 48106 | 65356 |
| G9-H200 SR7 | 125128 | 57242 | 75077 | | | | | | | | | | 90381 | 37373 | 40330 |
| G9-H220 SR4 | 65894 | 30416 | 40485 | 38934 | 14999 | 13526 | 65408 | 30138 | 39999 | 91881 | 45276 | 66473 | 171301 | 90691 | 145892 |
| G9-H220 SR5 | 81236 | 37539 | 50059 | | | | 55834 | 23014 | 24657 | 82307 | 38152 | 51130 | 161727 | 83567 | 130550 |
| G9-H220 SR6 | 100102 | 46509 | 62564 | | | | | | | 69803 | 29183 | 32264 | 149222 | 74598 | 111684 |
| G9-H220 SR7 | 125128 | 57242 | 75077 | | | | | | | | | | 136710 | 63865 | 86659 |
| G9-H2160 SR4 | 65894 | 30416 | 40485 | 44725 | 18311 | 19317 | 73129 | 34553 | 47721 | 101533 | 50795 | 76124 | 186743 | 99522 | 161335 |
| G9-H2160 SR5 | 81236 | 37539 | 50059 | | | | 63556 | 27429 | 32378 | 91959 | 43671 | 60782 | 177170 | 92398 | 145993 |
| G9-H2160 SR6 | 100102 | 46509 | 62564 | | | | | | | 79454 | 34702 | 41916 | 164665 | 83428 | 127127 |
| G9-H2160 SR7 | 125128 | 57242 | 75077 | | | | | | | 66942 | 23969 | 16890 | 152152 | 72695 | 102101 |
| G9-H2180 SR4 | 65894 | 30416 | 40485 | 72853 | 34395 | 47445 | 110633 | 55999 | 85225 | 148412 | 77603 | 123004 | 261751 | 142414 | 236343 |
| G9-H2180 SR5 | 81236 | 37539 | 50059 | 63280 | 27271 | 32103 | 101059 | 48875 | 69882 | 138839 | 70479 | 107662 | 252178 | 135290 | 221000 |
| G9-H2180 SR6 | 100102 | 46509 | 62564 | | | | 88554 | 39906 | 51016 | 126334 | 61509 | 88796 | 239673 | 126320 | 202134 |
| G9-H2180 SR7 | 125128 | 57242 | 75077 | | | | 76042 | 29173 | 25991 | 113821 | 50776 | 63770 | 227160 | 115587 | 177109 |
| G9-H2200 SR4 | 65894 | 30416 | 40485 | 104290 | 52372 | 78882 | 152549 | 79968 | 127141 | 200807 | 107564 | 175399 | 345583 | 190352 | 320175 |
| G9-H2200 SR5 | 81236 | 37539 | 50059 | 94717 | 45248 | 63540 | 142975 | 72844 | 111798 | 191234 | 100440 | 160057 | 336010 | 183228 | 304832 |
| G9-H2200 SR6 | 100102 | 46509 | 62564 | 82212 | 36279 | 44674 | 130470 | 63875 | 92932 | 178729 | 91471 | 141191 | 323505 | 174258 | 285966 |
| G9-H2200 SR7 | 125128 | 57242 | 75077 | | | | 117958 | 53142 | 67907 | 166216 | 80738 | 116165 | 310992 | 163525 | 260941 |

BTS-Gxx-H Range Hydraulic Actuators

Single-Return Torque Output
Symmetric Yoke Configuration



Air Shut (FO)

| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| G0-H40 SR4 | 461 | 218 | 301 | | | | 262 | 104 | 103 | 403 | 185 | 244 | 826 | 427 | 667 |
| G0-H40 SR5 | 571 | 272 | 381 | | | | | | | 324 | 131 | 134 | 747 | 373 | 557 |
| G0-H40 SR6 | 705 | 336 | 470 | | | | | | | | | | 658 | 309 | 423 |
| G0-H50 SR4 | 461 | 218 | 301 | 439 | 205 | 279 | 685 | 346 | 526 | 932 | 487 | 772 | | | |
| G0-H50 SR5 | 571 | 272 | 381 | 359 | 151 | 169 | 606 | 292 | 416 | 853 | 433 | 662 | 1593 | 856 | 1402 |
| G0-H50 SR6 | 705 | 336 | 470 | | | | 517 | 228 | 282 | 763 | 369 | 529 | 1503 | 793 | 1269 |
| G1-H40 SR4 | 797 | 380 | 531 | | | | | | | | | | 763 | 361 | 498 |
| G1-H50 SR4 | 797 | 380 | 531 | | | | 714 | 332 | 448 | 1025 | 510 | 759 | 1958 | 1044 | 1693 |
| G1-H50 SR5 | 996 | 475 | 664 | | | | 581 | 237 | 249 | 892 | 415 | 560 | 1826 | 949 | 1494 |
| G1-H50 SR6 | 1190 | 578 | 830 | | | | | | | 726 | 312 | 366 | 1660 | 846 | 1299 |
| G1-H50 SR7 | 1603 | 786 | 1146 | | | | | | | | | | 1343 | 637 | 886 |
| G1-H63 SR4 | 797 | 380 | 531 | 1134 | 572 | 868 | 1689 | | 1423 | 2244 | 1207 | 1978 | 3909 | 2159 | 3643 |
| G1-H63 SR5 | 996 | 475 | 664 | 1001 | 478 | 669 | 1556 | 795 | 1224 | 2111 | 1112 | 1779 | 3776 | 2064 | 3444 |
| G1-H63 SR6 | 1190 | 578 | 830 | 835 | 375 | 475 | 1390 | 692 | 1030 | 1945 | 1009 | 1585 | 3610 | 1961 | 3250 |
| G1-H63 SR7 | 1603 | 786 | 1146 | | | | 1074 | 483 | 617 | 1629 | 801 | 1172 | 3293 | 1753 | 2837 |
| G1-H63 SR8 | 2308 | 1083 | 1480 | | | | | | | | | | 2960 | 1456 | 2132 |
| G2-H50 SR4 | 1603 | 769 | 1085 | | | | | | | | | | 2170 | 1093 | 1652 |
| G2-H50 SR5 | 2035 | 1019 | 1530 | | | | | | | | | | 1726 | 842 | 1220 |
| G2-H63 SR4 | 1603 | 769 | 1085 | 1092 | 476 | 574 | 1818 | 891 | 1300 | 2544 | 1306 | 2026 | 4721 | 2552 | 4203 |
| G2-H63 SR5 | 2374 | 1164 | 1696 | | | | | | | 1933 | 912 | 1255 | 4111 | 2157 | 3432 |
| G2-H63 SR6 | 2035 | 1019 | 1530 | | | | 1373 | 641 | 868 | 2099 | 1056 | 1594 | 4276 | 2301 | 3771 |
| G2-H63 SR7 | 2848 | 1414 | 2096 | | | | | | | | | | 3710 | 1907 | 2958 |
| G2-H80 SR4 | 1603 | 769 | 1085 | 2496 | 1279 | 1978 | 3690 | 1962 | 3172 | 4883 | 2644 | 4365 | | | |
| G2-H80 SR5 | 2374 | 1164 | 1696 | 1885 | 884 | 1207 | 3079 | 1567 | 2401 | 4273 | 2249 | 3595 | | | |
| G2-H80 SR6 | 2035 | 1019 | 1530 | 2051 | 1028 | 1546 | 3245 | 1711 | 2739 | 4439 | 2394 | 3933 | | | |
| G2-H80 SR7 | 2848 | 1414 | 2096 | | | | 2679 | 1317 | 1927 | 3872 | 1999 | 3121 | 7454 | 4047 | 6702 |
| G2-H100 SR4 | 1603 | 769 | 1085 | 4840 | 2620 | 4322 | 6815 | 3749 | 6297 | 8790 | 4878 | 8272 | | | |

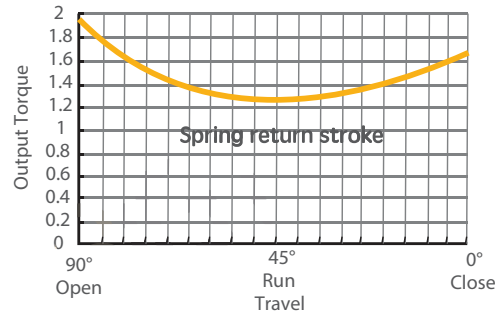
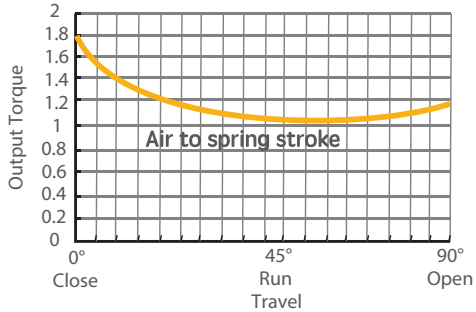
| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| G2-H100 SR5 | 2374 | 1164 | 1696 | 4229 | 2225 | 3551 | 6205 | 3354 | 5526 | 8180 | 4483 | 7501 | | | |
| G2-H100 SR6 | 2035 | 1019 | 1530 | 4395 | 2369 | 3890 | 6370 | 3498 | 5865 | 8345 | 4628 | 7840 | | | |
| G2-H100 SR7 | 2848 | 1414 | 2096 | 3829 | 1975 | 3077 | 5804 | 3104 | 5052 | 7779 | 4233 | 7027 | | | |
| G3-H2050 SR4 | 3336 | 1634 | 2377 | | | | | | | 2595 | 1210 | 1637 | 5579 | 2916 | 4620 |
| G3-H2050 SR5 | 4547 | 2192 | 3120 | | | | | | | | | | 4836 | 2358 | 3409 |
| G3-H2050 SR6 | 5805 | 2783 | 3930 | | | | | | | | | | 4027 | 1766 | 2151 |
| G3-H63 SR4 | 3336 | 1634 | 2377 | | | | | | | | | | 3578 | 1772 | 2619 |
| G3-H63 SR5 | 4547 | 2192 | 3120 | | | | | | | | | | 2836 | 1214 | 1409 |
| G3-H80 SR4 | 3336 | 1634 | 2377 | | | | 2959 | 1418 | 2000 | 4293 | 2181 | 3335 | 8296 | 4470 | 7337 |
| G3-H80 SR5 | 4547 | 2192 | 3120 | | | | 2216 | 860 | 790 | 3551 | 1622 | 2124 | 7553 | 3911 | 6126 |
| G3-H80 SR6 | 5805 | 2783 | 3930 | | | | | | | | | | 6743 | 3320 | 4868 |
| G3-H80 SR7 | 6921 | 3253 | 4455 | | | | | | | | | | 6219 | 2851 | 3752 |
| G3-H100 SR4 | 3336 | 1634 | 2377 | 3736 | 1862 | 2777 | 5773 | 3027 | 4814 | 7811 | 4192 | 6852 | | | |
| G3-H100 SR5 | 4547 | 2192 | 3120 | 2993 | 1303 | 1566 | 5030 | 2469 | 3604 | 7068 | 3634 | 5641 | | | |
| G3-H100 SR6 | 5805 | 2783 | 3930 | | | | 4221 | 1877 | 2345 | 6258 | 3042 | 4383 | 12371 | 6538 | 10496 |
| G3-H100 SR7 | 6921 | 3253 | 4455 | | | | | | | 5733 | 2573 | 3266 | 11846 | 6069 | 9379 |
| G3-H100 SR8 | 9096 | 4335 | 6064 | | | | | | | | | | 10236 | 4987 | 7204 |
| G3-H125 SR4 | 3336 | 1634 | 2377 | 7829 | 4203 | 6870 | 11231 | 6148 | 10272 | | | | | | |
| G3-H125 SR5 | 4547 | 2192 | 3120 | 7086 | 3644 | 5659 | 10488 | 5590 | 9061 | | | | | | |
| G3-H125 SR6 | 5805 | 2783 | 3930 | 6276 | 3053 | 4401 | 9679 | 4998 | 7803 | | | | | | |
| G3-H125 SR7 | 6921 | 3253 | 4455 | 5752 | 2584 | 3285 | 9154 | 4529 | 6687 | 12556 | 6474 | 10089 | | | |
| G3-H125 SR8 | 9096 | 4335 | 6064 | 4142 | 1502 | 1110 | 7544 | 3447 | 4512 | 10946 | 5392 | 7914 | | | |
| G4-H2063 SR4 | 5109 | 2479 | 3562 | | | | | | | 5257 | 2564 | 3710 | 10549 | 5590 | 9002 |
| G4-H2063 SR5 | 6661 | 3194 | 4509 | | | | | | | 4311 | 1850 | 2159 | 9603 | 4876 | 7451 |
| G4-H2063 SR6 | 8217 | 3976 | 5690 | | | | | | | | | | 8422 | 4093 | 5895 |
| G4-H2063 SR7 | 9426 | 4548 | 6480 | | | | | | | | | | 7631 | 3522 | 4686 |
| G4-H100 SR4 | 5109 | 2479 | 3562 | 2700 | 1101 | 1153 | 4787 | 2295 | 3240 | 6874 | 3489 | 5327 | 13137 | 7070 | 11590 |
| G4-H100 SR5 | 6661 | 3194 | 4509 | | | | 3841 | 1581 | 1689 | 5928 | 2775 | 3776 | 12190 | 6356 | 10038 |
| G4-H100 SR6 | 8217 | 3976 | 5690 | | | | | | | | | | 11009 | 5573 | 8482 |
| G4-H100 SR7 | 9426 | 4548 | 6480 | | | | | | | | | | 10219 | 5001 | 7273 |
| G4-H2080 SR4 | 5109 | 2479 | 3562 | 5789 | 2868 | 4242 | 8906 | 4651 | 7359 | 12023 | 6433 | 10476 | 21375 | 11780 | 19828 |
| G4-H2080 SR5 | 6661 | 3194 | 4509 | 4843 | 2154 | 2691 | 7960 | 3936 | 5808 | 11077 | 5719 | 8925 | 20428 | 11066 | 18277 |
| G4-H2080 SR6 | 8217 | 3976 | 5690 | | | | 6778 | 3154 | 4252 | 9896 | 4936 | 7369 | 19247 | 10284 | 16720 |
| G4-H2080 SR7 | 9426 | 4548 | 6480 | | | | 5988 | 2582 | 3043 | 9105 | 4365 | 6160 | 18457 | 9712 | 15511 |
| G4-H120 SR4 | 5109 | 2479 | 3562 | 6373 | 3202 | 4826 | 9685 | 5096 | 8138 | 12997 | 6990 | 11450 | 22933 | 12672 | 21386 |
| G4-H120 SR5 | 6661 | 3194 | 4509 | 5427 | 2488 | 3275 | 8739 | 4382 | 6587 | 12051 | 6276 | 9899 | 21987 | 11958 | 19835 |
| G4-H120 SR6 | 8217 | 3976 | 5690 | | | | 7558 | 3599 | 5031 | 10870 | 5493 | 8343 | 20806 | 11175 | 18279 |
| G4-H120 SR7 | 9426 | 4548 | 6480 | | | | 6767 | 3028 | 3822 | 10079 | 4922 | 7134 | 20015 | 10603 | 17070 |
| G4-H140 SR4 | 5109 | 2479 | 3562 | 10715 | 5685 | 9168 | 15474 | 8406 | 13927 | 20234 | 11128 | 18687 | | | |

| Actuator model | Torque outputs at different oil supply pressure (UnitNm) | | | | | | | | | | | | | | |
|-------------------|--|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| G4-H140 SR5 | 6661 | 3194 | 4509 | 9769 | 4971 | 7617 | 14528 | 7692 | 12376 | 19287 | 10414 | 17135 | | | |
| G4-H140 SR6 | 8217 | 3976 | 5690 | 8588 | 4188 | 6061 | 13347 | 6910 | 10820 | 18106 | 9631 | 15579 | | | |
| G4-H140 SR7 | 9426 | 4548 | 6480 | 7797 | 3617 | 4852 | 12556 | 6338 | 9611 | 17316 | 9059 | 14370 | | | |
| G5-H100 SR4 | 10939 | 5202 | 7257 | | | | | | | | | | 11700 | 5637 | 8017 |
| G5-H100 SR5 | 13738 | 6417 | 8706 | | | | | | | | | | 10250 | 4423 | 5218 |
| G5-H2080 SR4 | 10939 | 5202 | 7257 | | | | | | | 9774 | 4536 | 6092 | 19993 | 10380 | 16311 |
| G5-H2080 SR5 | 13738 | 6417 | 8706 | | | | | | | 8325 | 3322 | 3293 | 18543 | 9165 | 13512 |
| G5-H2080 SR6 | 16408 | 7514 | 9873 | | | | | | | | | | 17376 | 8068 | 10841 |
| G5-H120 SR4 | 10939 | 5202 | 7257 | | | | 10552 | 4981 | 6870 | 15004 | 7527 | 11322 | 28360 | 15165 | 24678 |
| G5-H120 SR5 | 13738 | 6417 | 8706 | | | | 9102 | 3766 | 4070 | 13554 | 6312 | 8523 | 26911 | 13950 | 21879 |
| G5-H120 SR6 | 16408 | 7514 | 9873 | | | | | | | 12388 | 5215 | 5852 | 25744 | 12853 | 19209 |
| G5-H120 SR7 | 20998 | 10153 | 14513 | | | | | | | | | | 21104 | 10214 | 14619 |
| G5-H140 SR4 | 10939 | 5202 | 7257 | 10515 | 4960 | 6833 | 16439 | 8347 | 12756 | 22362 | 11735 | 18680 | 40134 | 21897 | 36452 |
| G5-H140 SR5 | 13738 | 6417 | 8706 | 9065 | 3745 | 4033 | 14989 | 7133 | 9957 | 20913 | 10520 | 15881 | 38684 | 20682 | 33652 |
| G5-H140 SR6 | 16408 | 7514 | 9873 | | | | 13822 | 6035 | 7287 | 19746 | 9423 | 13211 | 37517 | 19585 | 30982 |
| G5-H140 SR7 | 20998 | 10153 | 14513 | | | | | | | 15106 | 6784 | 8621 | 32877 | 16946 | 26392 |
| G7-H140 SR4 | 19011 | 9115 | 12869 | | | | 13405 | 5909 | 7263 | 19974 | 9666 | 13832 | 39679 | 20934 | 33537 |
| G7-H140 SR5 | 24122 | 11358 | 15604 | | | | | | | 17239 | 7422 | 8721 | 36945 | 18691 | 28426 |
| G7-H140 SR6 | 25876 | 12156 | 16640 | | | | | | | 16202 | 6624 | 6967 | 35908 | 17893 | 26672 |
| G7-H140 SR7 | 31847 | 15366 | 21895 | | | | | | | | | | 30653 | 14683 | 20701 |
| G7-H2100 SR4 | 19011 | 9115 | 12869 | | | | 16444 | 7647 | 10302 | 23772 | 11837 | 17630 | 45756 | 24409 | 39614 |
| G7-H2100 SR5 | 24122 | 11358 | 15604 | | | | 13709 | 5404 | 5191 | 21037 | 9594 | 12519 | 43022 | 22166 | 34503 |
| G7-H2100 SR6 | 25876 | 12156 | 16640 | | | | | | | 20000 | 8796 | 10765 | 41985 | 21368 | 32749 |
| G7-H2100 SR7 | 31847 | 15366 | 21895 | | | | | | | | | | 36730 | 18158 | 26778 |
| G7-H2125 SR4 | 19011 | 9115 | 12869 | 22454 | 11084 | 16312 | 34228 | 17817 | 28086 | 46002 | 24549 | 39860 | 81325 | 44748 | 75183 |
| G7-H2125 SR5 | 24122 | 11358 | 15604 | 19719 | 8841 | 11201 | 31493 | 15573 | 22975 | 43267 | 22306 | 34749 | 78590 | 42505 | 70072 |
| G7-H2125 SR6 | 25876 | 12156 | 16640 | 18682 | 8043 | 9447 | 30457 | 14775 | 21221 | 42231 | 21508 | 32995 | 77553 | 41707 | 68318 |
| G7-H2125 SR7 | 31847 | 15366 | 21895 | | | | 25202 | 11566 | 15249 | 36976 | 18299 | 27024 | 72298 | 38497 | 62346 |
| G7-H2140 SR4 | 19011 | 9115 | 12869 | 33111 | 17178 | 26969 | 48437 | 25942 | 42295 | 63764 | 34706 | 57622 | 109744 | 60999 | 103602 |
| G7-H2140 SR5 | 24122 | 11358 | 15604 | 30376 | 14935 | 21858 | 45703 | 23699 | 37184 | 61029 | 32463 | 52511 | 107009 | 58756 | 98491 |
| G7-H2140 SR6 | 25876 | 12156 | 16640 | 29339 | 14137 | 20104 | 44666 | 22901 | 35430 | 59993 | 31665 | 50757 | 105972 | 57958 | 96736 |
| G7-H2140 SR7 | 31847 | 15366 | 21895 | 24085 | 10927 | 14132 | 39411 | 19691 | 29459 | 54738 | 28455 | 44785 | 100717 | 54748 | 90765 |
| G7-H160 SR4 | 19011 | 9115 | 12869 | 14880 | 6753 | 8738 | 24129 | 12042 | 17987 | 33379 | 17331 | 27237 | 61128 | 33199 | 54986 |
| G7-H160 SR5 | 24122 | 11358 | 15604 | | | | 21395 | 9799 | 12876 | 30644 | 15088 | 22126 | 58393 | 30956 | 49875 |
| G7-H160 SR6 | 25876 | 12156 | 16640 | | | | 20358 | 9001 | 11122 | 29608 | 14290 | 20372 | 57356 | 30158 | 48120 |
| G7-H160 SR7 | 31847 | 15366 | 21895 | | | | | | | 24353 | 11080 | 14400 | 52101 | 26948 | 42149 |
| G7-H180 SR4 | 19011 | 9115 | 12869 | 23995 | 11965 | 17853 | 36283 | 18992 | 30141 | 48571 | 26019 | 42429 | 85436 | 47099 | 79294 |
| G7-H180 SR5 | 24122 | 11358 | 15604 | 21261 | 9722 | 12742 | 33549 | 16749 | 25030 | 45837 | 23776 | 37319 | 82701 | 44856 | 74183 |
| G7-H180 SR6 | 25876 | 12156 | 16640 | 20224 | 8924 | 10988 | 32512 | 15951 | 23276 | 44800 | 22978 | 35564 | 81664 | 44058 | 72428 |
| G7-H180 SR7 | 31847 | 15366 | 21895 | | | | 27257 | 12741 | 17305 | 39545 | 19768 | 29593 | 76409 | 40848 | 66457 |
| G8-H160 SR4 | 37853 | 18263 | 26024 | | | | | | | 24962 | 10892 | 13133 | 55553 | 28385 | 43724 |
| G8-H160 SR5 | 50429 | 23254 | 30900 | | | | | | | | | | 50677 | 23395 | 31148 |
| G8-H160 SR6 | 59453 | 28025 | 38564 | | | | | | | | | | 43013 | 18624 | 22124 |

| Actuator model | Torque outputs at different oil supply pressure (UnitNm) | | | | | | | | | | | | | | |
|---------------------|--|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| G8-H2125 SR4 | 37853 | 18263 | 26024 | | | | 26767 | 11924 | 14938 | 39965 | 19471 | 28136 | 79559 | 42112 | 67730 |
| G8-H2125 SR5 | 50429 | 23254 | 30900 | | | | | | | 35089 | 14481 | 15560 | 74682 | 37122 | 55153 |
| G8-H2125 SR6 | 59453 | 28025 | 38564 | | | | | | | | | | 67019 | 32351 | 46130 |
| G8-H2125 SR7 | 79665 | 36444 | 47799 | | | | | | | | | | 57784 | 23932 | 25918 |
| G8-H180 SR4 | 37853 | 18263 | 26024 | | | | 29210 | 13321 | 17381 | 43019 | 21218 | 31190 | 84445 | 44906 | 72616 |
| G8-H180 SR5 | 50429 | 23254 | 30900 | | | | | | | 38143 | 16228 | 18614 | 79568 | 39916 | 60039 |
| G8-H180 SR6 | 59453 | 28025 | 38564 | | | | | | | | | | 71905 | 35145 | 51016 |
| G8-H180 SR7 | 79665 | 36444 | 47799 | | | | | | | | | | 62670 | 26726 | 30804 |
| G8-H2140 SR4 | 37853 | 18263 | 26024 | 26236 | 11621 | 14407 | 43656 | 21582 | 31827 | 61076 | 31543 | 49247 | 113337 | 61428 | 101508 |
| G8-H2140 SR5 | 50429 | 23254 | 30900 | | | | 38780 | 16592 | 19251 | 56200 | 26553 | 36671 | 108460 | 56438 | 88931 |
| G8-H2140 SR6 | 59453 | 28025 | 38564 | | | | | | | 48536 | 21782 | 27648 | 100797 | 51666 | 79908 |
| G8-H2140 SR7 | 79665 | 36444 | 47799 | | | | | | | | | | 91562 | 43247 | 59696 |
| G8-H2160 SR4 | 37853 | 18263 | 26024 | 45356 | 22554 | 33527 | 69149 | 36160 | 57320 | 92942 | 49766 | 81113 | 164322 | 90583 | 152493 |
| G8-H2160 SR5 | 50429 | 23254 | 30900 | 40479 | 17564 | 20950 | 64273 | 31170 | 44744 | 88066 | 44775 | 68537 | 159446 | 85593 | 139917 |
| G8-H2160 SR6 | 59453 | 28025 | 38564 | 32816 | 12793 | 11927 | 56609 | 26399 | 35720 | 80402 | 40004 | 59514 | 151782 | 80822 | 130893 |
| G8-H2160 SR7 | 79665 | 36444 | 47799 | | | | 47374 | 17979 | 15508 | 71167 | 31585 | 39301 | 142547 | 72402 | 110681 |
| G8-H200 SR4 | 37853 | 18263 | 26024 | 27511 | 12350 | 15682 | 45356 | 22554 | 33527 | 63201 | 32758 | 51372 | 116736 | 63371 | 104907 |
| G8-H200 SR5 | 50429 | 23254 | 30900 | | | | 40479 | 17564 | 20950 | 58324 | 27768 | 38795 | 11859 | 58381 | 92330 |
| G8-H200 SR6 | 59453 | 28025 | 38564 | | | | 32816 | 12793 | 11927 | 50661 | 22997 | 29772 | 104196 | 53610 | 83307 |
| G8-H200 SR7 | 79665 | 36444 | 47799 | | | | | | | | | | 94961 | 45191 | 63095 |
| G9-H180 SR4 | 65894 | 30416 | 40485 | | | | | | | 36728 | 13738 | 11320 | 83056 | 40230 | 57648 |
| G9-H180 SR5 | 81236 | 37539 | 50059 | | | | | | | | | | 73483 | 33106 | 42306 |
| G9-H200 SR4 | 65894 | 30416 | 40485 | | | | | | | 62926 | 28718 | 37518 | 124972 | 64199 | 99564 |
| G9-H200 SR5 | 81236 | 37539 | 50059 | | | | | | | 53352 | 21595 | 22175 | 115399 | 57075 | 84222 |
| G9-H200 SR6 | 100102 | 46509 | 62564 | | | | | | | | | | 102894 | 48106 | 65356 |
| G9-H200 SR7 | 125128 | 57242 | 75077 | | | | | | | | | | 90381 | 37373 | 40330 |
| G9-H220 SR4 | 65894 | 30416 | 40485 | 38934 | 14999 | 13526 | 65408 | 30138 | 39999 | 91881 | 45276 | 66473 | 171301 | 90691 | 145892 |
| G9-H220 SR5 | 81236 | 37539 | 50059 | | | | 55834 | 23014 | 24657 | 82307 | 38152 | 51130 | 161727 | 83567 | 130550 |
| G9-H220 SR6 | 100102 | 46509 | 62564 | | | | | | | 69803 | 29183 | 32264 | 149222 | 74598 | 111684 |
| G9-H220 SR7 | 125128 | 57242 | 75077 | | | | | | | | | | 136710 | 63865 | 86659 |
| G9-H2160 SR4 | 65894 | 30416 | 40485 | 44725 | 18311 | 19317 | 73129 | 34553 | 47721 | 101533 | 50795 | 76124 | 186743 | 99522 | 161335 |
| G9-H2160 SR5 | 81236 | 37539 | 50059 | | | | 63556 | 27429 | 32378 | 91959 | 43671 | 60782 | 177170 | 92398 | 145993 |
| G9-H2160 SR6 | 100102 | 46509 | 62564 | | | | | | | 79454 | 34702 | 41916 | 164665 | 83428 | 127127 |
| G9-H2160 SR7 | 125128 | 57242 | 75077 | | | | | | | 66942 | 23969 | 16890 | 152152 | 72695 | 102101 |
| G9-H2180 SR4 | 65894 | 30416 | 40485 | 72853 | 34395 | 47445 | 110633 | 55999 | 85225 | 148412 | 77603 | 123004 | 261751 | 142414 | 236343 |
| G9-H2180 SR5 | 81236 | 37539 | 50059 | 63280 | 27271 | 32103 | 101059 | 48875 | 69882 | 138839 | 70479 | 107662 | 252178 | 135290 | 221000 |
| G9-H2180 SR6 | 100102 | 46509 | 62564 | | | | 88554 | 39906 | 51016 | 126334 | 61509 | 88796 | 239673 | 126320 | 202134 |
| G9-H2180 SR7 | 125128 | 57242 | 75077 | | | | 76042 | 29173 | 25991 | 113821 | 50776 | 63770 | 227160 | 115587 | 177109 |
| G9-H2200 SR4 | 65894 | 30416 | 40485 | 104290 | 52372 | 78882 | 152549 | 79968 | 127141 | 200807 | 107564 | 175399 | 345583 | 190352 | 320175 |
| G9-H2200 SR5 | 81236 | 37539 | 50059 | 94717 | 45248 | 63540 | 142975 | 72844 | 111798 | 191234 | 100440 | 160057 | 336010 | 183228 | 304832 |
| G9-H2200 SR6 | 100102 | 46509 | 62564 | 82212 | 36279 | 44674 | 130470 | 63875 | 92932 | 178729 | 91471 | 141191 | 323505 | 174258 | 285966 |
| G9-H2200 SR7 | 125128 | 57242 | 75077 | | | | 117958 | 53142 | 67907 | 166216 | 80738 | 116165 | 310992 | 163525 | 260941 |

BTS-Gxx-H Range Hydraulic Actuators

Single-Return Torque Output
Canted Yoke Configuration



Air Open (FC)

| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|---------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| GC0-H40 SR4 | 394 | 218 | 367 | | | | | | | 491 | 185 | 209 | 1006 | 427 | 571 |
| GC0-H40 SR5 | 489 | 272 | 463 | | | | | | | | | | 910 | 373 | 477 |
| GC0-H40 SR6 | 603 | 336 | 572 | | | | | | | | | | 801 | 309 | 362 |
| GC0-H50 SR4 | 394 | 218 | 367 | 534 | 205 | 239 | 834 | 346 | 450 | 1135 | 487 | 661 | | | |
| GC0-H50 SR5 | 489 | 272 | 463 | | | | 738 | 292 | 356 | 1038 | 433 | 567 | | | |
| GC0-H50 SR6 | 603 | 336 | 572 | | | | | | | 930 | 369 | 452 | | | |
| GC1-H40 SR4 | 682 | 380 | 647 | | | | | | | | | | 930 | 361 | 426 |
| GC1-H50 SR4 | 682 | 380 | 647 | | | | | | | 1248 | 510 | 650 | 2385 | 1044 | 1449 |
| GC1-H50 SR5 | 852 | 475 | 808 | | | | | | | 1086 | 415 | 480 | 2223 | 949 | 1279 |
| GC1-H50 SR6 | 1019 | 578 | 1010 | | | | | | | | | | 2021 | 846 | 1112 |
| GC1-H50 SR7 | 1372 | 786 | 1396 | | | | | | | | | | 1635 | 637 | 759 |
| GC1-H63 SR4 | 682 | 380 | 647 | 1381 | 572 | 743 | 2056 | 890 | 1218 | 2732 | 1207 | 1694 | | | |
| GC1-H63 SR5 | 852 | 475 | 808 | 1219 | 478 | 573 | 1895 | 795 | 1048 | 2571 | 1112 | 1523 | | | |
| GC1-H63 SR6 | 1019 | 578 | 1010 | 1017 | 375 | 406 | 1693 | 692 | 882 | 2368 | 1009 | 1357 | | | |
| GC1-H63 SR7 | 1372 | 786 | 1396 | | | | | | | 1983 | 801 | 1003 | 4010 | 1753 | 2428 |
| GC1-H63 SR8 | 1976 | 1083 | 1802 | | | | | | | | | | 3605 | 1456 | 1825 |
| GC2-H50 SR4 | 1372 | 769 | 1321 | | | | | | | | | | 2643 | 1093 | 1415 |
| GC2-H50 SR5 | 1742 | 1019 | 1863 | | | | | | | | | | 2101 | 842 | 1045 |
| GC2-H63 SR4 | 1372 | 769 | 1321 | 1330 | 476 | 492 | 2213 | 891 | 1113 | 3097 | 1306 | 1734 | 5748 | 2552 | 3598 |
| GC2-H63 SR5 | 2032 | 1164 | 2065 | | | | | | | 2354 | 912 | 1074 | 5005 | 2157 | 2938 |
| GC2-H63 SR6 | 1742 | 1019 | 1863 | | | | | | | 2556 | 1056 | 1364 | 5207 | 2301 | 3228 |
| GC2-H63 SR7 | 2438 | 1414 | 2552 | | | | | | | | | | 4517 | 1907 | 2532 |
| GC2-H80 SR4 | 1372 | 769 | 1321 | 3039 | 1279 | 1693 | 4493 | 1962 | 2715 | 5946 | 2644 | 3737 | | | |
| GC2-H80 SR5 | 2032 | 1164 | 2065 | 2296 | 884 | 1033 | 3749 | 1567 | 2055 | 5203 | 2249 | 3077 | | | |
| GC2-H80 SR6 | 1742 | 1019 | 1863 | 2498 | 1028 | 1323 | 3951 | 1711 | 2345 | 5405 | 2394 | 3367 | | | |
| GC2-H80 SR7 | 2438 | 1414 | 2552 | | | | 3262 | 1317 | 1649 | 4715 | 1999 | 2671 | | | |
| GC2-H100 SR4 | 1372 | 769 | 1321 | 5893 | 2620 | 3700 | | | | | | | | | |
| GC2-H100 SR5 | 2032 | 1164 | 2065 | 5150 | 2225 | 3040 | | | | | | | | | |
| GC2-H100 SR6 | 1742 | 1019 | 1863 | 5352 | 2369 | 3330 | | | | | | | | | |

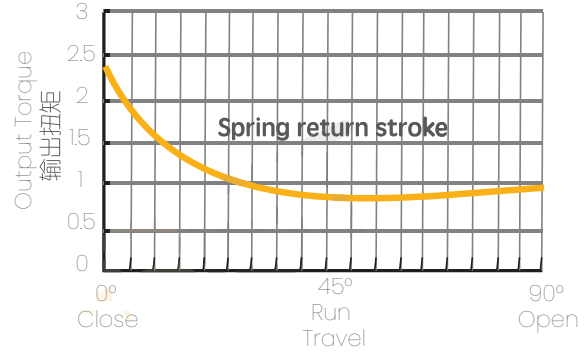
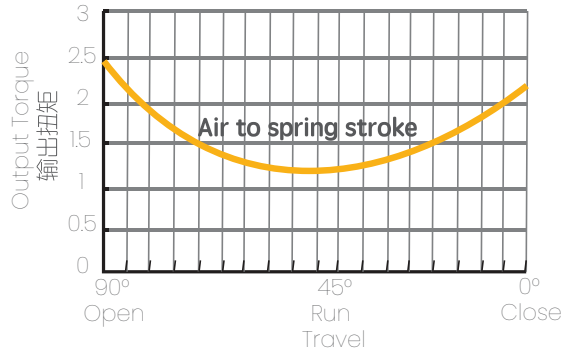
| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|---------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| GC2-H100 SR7 | 2438 | 1414 | 2552 | 4662 | 1975 | 2634 | | | | | | | | | |
| GC3-H2050 SR4 | 2856 | 1634 | 2894 | | | | | | | 3160 | 1210 | 1401 | 6793 | 2916 | 3955 |
| GC3-H2050 SR5 | 3892 | 2192 | 3799 | | | | | | | | | | 5889 | 2358 | 2919 |
| GC3-H2050 SR6 | 4969 | 2783 | 4785 | | | | | | | | | | 4903 | 1766 | 1841 |
| GC3-H63 SR4 | 2856 | 1634 | 2894 | | | | | | | | | | 4357 | 1772 | 2242 |
| GC3-H63 SR5 | 3892 | 2192 | 3799 | | | | | | | | | | 3453 | 1214 | 1206 |
| GC3-H80 SR4 | 2856 | 1634 | 2894 | | | | | | | 5228 | 2181 | 2854 | 10101 | 4470 | 6281 |
| GC3-H80 SR5 | 3892 | 2192 | 3799 | | | | | | | 4323 | 1622 | 1818 | 9197 | 3911 | 5244 |
| GC3-H80 SR6 | 4969 | 2783 | 4785 | | | | | | | | | | 8211 | 3320 | 4167 |
| GC3-H80 SR7 | 5925 | 3253 | 5424 | | | | | | | | | | 7572 | 2851 | 3211 |
| GC3-H100 SR4 | 2856 | 1634 | 2894 | 4548 | 1862 | 2377 | 7029 | 3027 | 4121 | 9510 | 4192 | 5865 | | | |
| GC3-H100 SR5 | 3892 | 2192 | 3799 | 3644 | 1303 | 1340 | 6125 | 2469 | 3085 | 8606 | 3634 | 4829 | | | |
| GC3-H100 SR6 | 4969 | 2783 | 4785 | | | | 5139 | 1877 | 2008 | 7620 | 3042 | 3752 | | | |
| GC3-H100 SR7 | 5925 | 3253 | 5424 | | | | | | | 6981 | 2573 | 2796 | | | |
| GC3-H120 SR4 | 2856 | 1634 | 2894 | 9533 | 4203 | 5881 | 13675 | 6148 | 8793 | | | | | | |
| GC3-H120 SR5 | 3892 | 2192 | 3799 | 8628 | 3644 | 4845 | 12771 | 5590 | 7757 | | | | | | |
| GC3-H120 SR6 | 4969 | 2783 | 4785 | 7642 | 3053 | 3767 | 11785 | 4998 | 6680 | | | | | | |
| GC3-H120 SR7 | 5925 | 3253 | 5424 | | | | 11146 | 4529 | 5724 | | | | | | |
| GC4-H2063 SR4 | 4374 | 2479 | 4338 | | | | | | | 6402 | 2564 | 3176 | 12845 | 5590 | 7706 |
| GC4-H2063 SR5 | 5702 | 3194 | 5490 | | | | | | | 5249 | 1850 | 1848 | 11693 | 4876 | 6378 |
| GC4-H2063 SR6 | 7034 | 3976 | 6928 | | | | | | | | | | 10254 | 4093 | 5046 |
| GC4-H2063 SR7 | 8069 | 4548 | 7891 | | | | | | | | | | 9292 | 3522 | 4011 |
| GC4-H100 SR4 | 4374 | 2479 | 4338 | 3287 | 1101 | 987 | 5829 | 2295 | 2774 | 8370 | 3489 | 4560 | 15995 | 7070 | 9921 |
| GC4-H100 SR5 | 5702 | 3194 | 5490 | | | | 4677 | 1581 | 1446 | 7218 | 2775 | 3233 | 14843 | 6356 | 8593 |
| GC4-H100 SR6 | 7034 | 3976 | 6928 | | | | | | | | | | 13405 | 5573 | 7261 |
| GC4-H100 SR7 | 8069 | 4548 | 7891 | | | | | | | | | | 12442 | 5001 | 6226 |
| GC4-H2080 SR4 | 4374 | 2479 | 4338 | 7049 | 2868 | 3631 | 10844 | 4651 | 6300 | 14640 | 6433 | 8968 | | | |
| GC4-H2080 SR5 | 5702 | 3194 | 5490 | 5897 | 2154 | 2303 | 9692 | 3936 | 4972 | 13488 | 5719 | 7640 | | | |
| GC4-H2080 SR6 | 7034 | 3976 | 6928 | | | | 8254 | 3154 | 3639 | 12049 | 4936 | 6308 | | | |
| GC4-H2080 SR7 | 8069 | 4548 | 7891 | | | | 7291 | 2582 | 2605 | 11087 | 4365 | 5273 | 22473 | 9712 | 13278 |
| GC4-H120 SR4 | 4374 | 2479 | 4338 | 7760 | 3202 | 4132 | 11793 | 5096 | 6967 | 15826 | 6990 | 9802 | | | |
| GC4-H120 SR5 | 5702 | 3194 | 5490 | 6608 | 2488 | 2804 | 10641 | 4382 | 5639 | 14674 | 6276 | 8474 | | | |
| GC4-H120 SR6 | 7034 | 3976 | 6928 | | | | 9202 | 3599 | 4307 | 13235 | 5493 | 7142 | | | |
| GC4-H120 SR7 | 8069 | 4548 | 7891 | | | | 8240 | 3028 | 3272 | 12273 | 4922 | 6107 | | | |
| GC4-H140 SR4 | 4374 | 2479 | 4338 | 13047 | 5685 | 7848 | 18842 | 8406 | 11922 | | | | | | |
| GC4-H140 SR5 | 5702 | 3194 | 5490 | 11895 | 4971 | 6520 | 17690 | 7692 | 10594 | | | | | | |
| GC4-H140 SR6 | 7034 | 3976 | 6928 | 10456 | 4188 | 5188 | 16251 | 6910 | 9262 | 22046 | 9631 | 13336 | | | |
| GC4-H140 SR7 | 8069 | 4548 | 7891 | 9494 | 3617 | 4153 | 15289 | 6338 | 8227 | 21084 | 9059 | 12301 | | | |
| GC5-H100 SR4 | 9364 | 5202 | 8836 | | | | | | | | | | 14246 | 5637 | 6863 |
| GC5-H100 SR5 | 11760 | 6417 | 10601 | | | | | | | | | | 12481 | 4423 | 4467 |
| GC5-H2080 SR4 | 9364 | 5202 | 8836 | | | | | | | 11901 | 4536 | 5215 | 24344 | 10380 | 13963 |
| GC5-H2080 SR5 | 11760 | 6417 | 10601 | | | | | | | 10136 | 3322 | 2819 | 22579 | 9165 | 11566 |

| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|---------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| GC5-H2080 SR6 | 14046 | 7514 | 12022 | | | | | | | | | | 21158 | 8068 | 9280 |
| GC5-H120 SR4 | 9364 | 5202 | 8836 | | | | 12848 | 4981 | 5881 | 18269 | 7527 | 9692 | 34532 | 15165 | 21125 |
| GC5-H120 SR5 | 11760 | 6417 | 10601 | | | | 11083 | 3766 | 3484 | 16504 | 6312 | 7296 | 32767 | 13950 | 18729 |
| GC5-H120 SR6 | 14046 | 7514 | 12022 | | | | | | | 15083 | 5215 | 5010 | 31346 | 12853 | 16443 |
| GC5-H120 SR7 | 17975 | 10153 | 17672 | | | | | | | | | | 25696 | 10214 | 12514 |
| GC5-H140 SR4 | 9364 | 5202 | 8836 | 12803 | 4960 | 5849 | 20016 | 8347 | 10920 | 27229 | 11735 | 15991 | 48868 | 21897 | 31204 |
| GC5-H140 SR5 | 11760 | 6417 | 10601 | 11038 | 3745 | 3453 | 18251 | 7133 | 8524 | 25464 | 10520 | 13595 | 47103 | 20682 | 28808 |
| GC5-H140 SR6 | 14046 | 7514 | 12022 | | | | 16830 | 6035 | 6238 | 24043 | 9423 | 11309 | 45682 | 19585 | 26522 |
| GC5-H140 SR7 | 17975 | 10153 | 17672 | | | | | | | 18393 | 6784 | 7380 | 40032 | 16946 | 22593 |
| GC5-H160 SR7 | 17975 | 10153 | 17672 | | | | | | | 31917 | 13135 | 16888 | 61671 | 27108 | 37806 |
| GC5-H160 SR4 | 23511 | 12684 | 20574 | | | | | | | 29015 | 10605 | 11352 | 58769 | 24578 | 32270 |
| GC7-H140 SR4 | 16274 | 9115 | 15669 | | | | 16322 | 5909 | 6218 | 24320 | 9666 | 11840 | 48314 | 20934 | 28709 |
| GC7-H140 SR5 | 20649 | 11358 | 18999 | | | | | | | 20991 | 7422 | 7465 | 44984 | 18691 | 24334 |
| GC7-H140 SR6 | 22151 | 12156 | 20261 | | | | | | | 19728 | 6624 | 5964 | 43722 | 17893 | 22832 |
| GC7-H140 SR7 | 27262 | 15366 | 26660 | | | | | | | | | | 37324 | 14683 | 17721 |
| GC7-H2100 SR4 | 16274 | 9115 | 15669 | | | | 20022 | 7647 | 8819 | 28945 | 11837 | 15092 | 55714 | 24409 | 33911 |
| GC7-H2100 SR5 | 20649 | 11358 | 18999 | | | | 16692 | 5404 | 4444 | 25615 | 9594 | 10717 | 52384 | 22166 | 29536 |
| GC7-H2100 SR6 | 22151 | 12156 | 20261 | | | | | | | 24353 | 8796 | 9215 | 51122 | 21368 | 28034 |
| GC7-H2100 SR7 | 27262 | 15366 | 26660 | | | | | | | | | | 44723 | 18158 | 22923 |
| GC7-H2125 SR4 | 16274 | 9115 | 15669 | 27340 | 11084 | 13963 | 41676 | 17817 | 24042 | 56013 | 24549 | 34122 | 99022 | 44748 | 64359 |
| GC7-H2125 SR5 | 20649 | 11358 | 18999 | 24010 | 8841 | 9588 | 38347 | 15573 | 19667 | 52683 | 22306 | 29747 | 95693 | 42505 | 59984 |
| GC7-H2125 SR6 | 22151 | 12156 | 20261 | 22748 | 8043 | 8087 | 37084 | 14775 | 18166 | 51421 | 21508 | 28245 | 94430 | 41707 | 58482 |
| GC7-H2125 SR7 | 27262 | 15366 | 26660 | | | | 30686 | 11566 | 13054 | 45023 | 18299 | 23133 | 88032 | 38497 | 53371 |
| GC7-H2140 SR4 | 16274 | 9115 | 15669 | 40316 | 17178 | 23086 | 58978 | 25942 | 36206 | 77640 | 34706 | 49326 | | | |
| GC7-H2140 SR5 | 20649 | 11358 | 18999 | 36986 | 14935 | 18711 | 55648 | 23699 | 31831 | 74310 | 32463 | 44951 | | | |
| GC7-H2140 SR6 | 22151 | 12156 | 20261 | 35724 | 14137 | 17209 | 54386 | 22901 | 30330 | 73048 | 31665 | 43450 | | | |
| GC7-H2140 SR7 | 27262 | 15366 | 26660 | 29326 | 10927 | 12098 | 47988 | 19691 | 25218 | 66650 | 28455 | 38338 | | | |
| GC7-H160 SR4 | 16274 | 9115 | 15669 | 18118 | 6753 | 7480 | 29380 | 12042 | 15398 | 40643 | 17331 | 23316 | 74430 | 33199 | 47070 |
| GC7-H160 SR5 | 20649 | 11358 | 18999 | | | | 26050 | 9799 | 11023 | 37313 | 15088 | 18941 | 71100 | 30956 | 42695 |
| GC7-H160 SR6 | 22151 | 12156 | 20261 | | | | 24788 | 9001 | 9521 | 36051 | 14290 | 17439 | 69838 | 30158 | 41193 |
| GC7-H160 SR7 | 27262 | 15366 | 26660 | | | | | | | 29652 | 11080 | 12327 | 63440 | 26948 | 36081 |
| GC7-H180 SR4 | 16274 | 9115 | 15669 | 29217 | 11965 | 15283 | 44179 | 18992 | 25802 | 59141 | 26019 | 36321 | 104028 | 47099 | 67878 |
| GC7-H180 SR5 | 20649 | 11358 | 18999 | 25887 | 9722 | 10908 | 40849 | 16749 | 21427 | 55812 | 23776 | 31946 | 100698 | 44856 | 63503 |
| GC7-H180 SR6 | 22151 | 12156 | 20261 | 24625 | 8924 | 9406 | 39587 | 15951 | 19925 | 54549 | 22978 | 30444 | 99436 | 44058 | 62001 |
| GC7-H180 SR7 | 27262 | 15366 | 26660 | | | | 33189 | 12741 | 14814 | 48151 | 19768 | 25333 | 93037 | 40848 | 56890 |
| GC8-H160 SR4 | 32403 | 18263 | 31687 | | | | | | | 30394 | 10892 | 11242 | 67642 | 28385 | 37429 |
| GC8-H160 SR5 | 43169 | 23254 | 37625 | | | | | | | | | | 61705 | 23395 | 26663 |
| GC8-H160 SR6 | 50894 | 28025 | 46956 | | | | | | | | | | 52373 | 18624 | 18939 |
| GC8-H2125 SR4 | 32403 | 18263 | 31687 | | | | 32593 | 11924 | 12788 | 48662 | 19471 | 24086 | 96872 | 42112 | 57979 |
| GC8-H2125 SR5 | 43169 | 23254 | 37625 | | | | | | | 42725 | 14481 | 13320 | 90934 | 37122 | 47213 |
| GC8-H2125 SR6 | 50894 | 28025 | 46956 | | | | | | | | | | 81603 | 32351 | 39489 |
| GC8-H2125 SR7 | 68196 | 36444 | 58201 | | | | | | | | | | 70358 | 23932 | 22186 |

| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|---------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTC(90°) | RTC(45°) | ETC(0°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) | BTO(0°) | RTO(45°) | ETO(90°) |
| GC8-H180 SR4 | 32403 | 18263 | 31687 | | | | 35567 | 13321 | 14879 | 52381 | 21218 | 26700 | 102822 | 44906 | 62162 |
| GC8-H180 SR5 | 43169 | 23254 | 37625 | | | | | | | 46443 | 16228 | 15934 | 96884 | 39916 | 51396 |
| GC8-H180 SR6 | 50894 | 28025 | 46956 | | | | | | | | | | 87553 | 35145 | 43672 |
| GC8-H180 SR7 | 68196 | 36444 | 58201 | | | | | | | | | | 76308 | 26726 | 26369 |
| GC8-H2140 SR4 | 32403 | 18263 | 31687 | 31946 | 11621 | 12333 | 53157 | 21582 | 27245 | 74368 | 31543 | 42158 | 138001 | 61428 | 86894 |
| GC8-H2140 SR5 | 43169 | 23254 | 37625 | | | | 47219 | 16592 | 16479 | 68430 | 26553 | 31392 | 132063 | 56438 | 76128 |
| GC8-H2140 SR6 | 50894 | 28025 | 46956 | | | | | | | 59099 | 21782 | 23667 | 122732 | 51666 | 68404 |
| GC8-H2140 SR7 | 68196 | 36444 | 58201 | | | | | | | | | | 111487 | 43247 | 51102 |
| GC8-H2160 SR4 | 32403 | 18263 | 31687 | 55226 | 22554 | 28700 | 84197 | 36160 | 49068 | 113168 | 49766 | 69436 | | | |
| GC8-H2160 SR5 | 43169 | 23254 | 37625 | 49289 | 17564 | 17934 | 78260 | 31170 | 38302 | 107231 | 44775 | 58670 | | | |
| GC8-H2160 SR6 | 50894 | 28025 | 46956 | 39957 | 12793 | 10210 | 68928 | 26399 | 30578 | 97899 | 40004 | 50946 | | | |
| GC8-H2160 SR7 | 68196 | 36444 | 58201 | | | | 57684 | 17979 | 13275 | 86655 | 31585 | 33643 | | | |
| GC8-H200 SR4 | 32403 | 18263 | 31687 | 33498 | 12350 | 13424 | 55226 | 22554 | 28700 | 76955 | 32758 | 43976 | 142140 | 63371 | 89804 |
| GC8-H200 SR5 | 43169 | 23254 | 37625 | | | | 49289 | 17564 | 17934 | 71017 | 27768 | 33210 | 136202 | 58381 | 79038 |
| GC8-H200 SR6 | 50894 | 28025 | 46956 | | | | 39957 | 12793 | 10210 | 61686 | 22997 | 25486 | 126871 | 53610 | 71314 |
| GC8-H200 SR7 | 68196 | 36444 | 58201 | | | | | | | | | | 115626 | 45191 | 54011 |
| GC9-H180 SR4 | 56407 | 30416 | 49296 | | | | | | | | | | 101131 | 40230 | 49349 |
| GC9-H180 SR5 | 69541 | 37539 | 60953 | | | | | | | | | | 89474 | 33106 | 36215 |
| GC9-H200 SR4 | 56407 | 30416 | 49296 | | | | | | | | | | 152169 | 64199 | 85231 |
| GC9-H200 SR5 | 69541 | 37539 | 60953 | | | | | | | | | | 140512 | 57075 | 72097 |
| GC9-H200 SR6 | 85691 | 46509 | 76179 | | | | | | | | | | 125286 | 48106 | 55947 |
| GC9-H200 SR7 | 107114 | 57242 | 91415 | | | | | | | | | | 110050 | 37373 | 34524 |
| GC9-H220 SR4 | 56407 | 30416 | 49296 | | | | 79641 | 30138 | 34241 | 111876 | 45276 | 56903 | 208579 | 90691 | 124889 |
| GC9-H220 SR5 | 69541 | 37539 | 60953 | | | | 67985 | 23014 | 21107 | 100219 | 38152 | 43769 | 196922 | 83567 | 111756 |
| GC9-H220 SR6 | 85691 | 46509 | 76179 | | | | | | | | | | 181696 | 74598 | 95606 |
| GC9-H220 SR7 | 107114 | 57242 | 91415 | | | | | | | | | | 166460 | 63865 | 74183 |
| GC9-H2160 SR4 | 56407 | 30416 | 49296 | | | | 89043 | 34553 | 40851 | 123628 | 50795 | 65165 | 227382 | 99522 | 138109 |
| GC9-H2160 SR5 | 69541 | 37539 | 60953 | | | | 77386 | 27429 | 27717 | 111971 | 43671 | 52032 | 215725 | 92398 | 124975 |
| GC9-H2160 SR6 | 85691 | 46509 | 76179 | | | | | | | 96745 | 34702 | 35882 | 200499 | 83428 | 108825 |
| GC9-H2160 SR7 | 107114 | 57242 | 91415 | | | | | | | 81509 | 23969 | 14459 | 185264 | 72695 | 87402 |
| GC9-H2180 SR4 | 56407 | 30416 | 49296 | 88707 | 34395 | 40615 | 134708 | 55999 | 72955 | 180710 | 77603 | 105296 | | | |
| GC9-H2180 SR5 | 69541 | 37539 | 60953 | 77051 | 27271 | 27481 | 123052 | 48875 | 59822 | 169053 | 70479 | 92162 | 307056 | 135290 | 189184 |
| GC9-H2180 SR6 | 85691 | 46509 | 76179 | | | | 107826 | 39906 | 43672 | 153827 | 61509 | 76012 | 291830 | 126320 | 173034 |
| GC9-H2180 SR7 | 107114 | 57242 | 91415 | | | | 92590 | 29173 | 22249 | 138591 | 50776 | 54590 | 276594 | 115587 | 151612 |
| GC9-H2200 SR4 | 56407 | 30416 | 49296 | 126986 | 52372 | 67526 | 185746 | 79968 | 108837 | 244507 | 107564 | 150148 | | | |
| GC9-H2200 SR5 | 69541 | 37539 | 60953 | 115329 | 45248 | 54392 | 174089 | 72844 | 95703 | 232850 | 100440 | 137014 | | | |
| GC9-H2200 SR6 | 85691 | 46509 | 76179 | 100103 | 36279 | 38242 | 158863 | 63875 | 79553 | 217624 | 91471 | 120864 | | | |
| GC9-H2200 SR7 | 107114 | 57242 | 91415 | | | | 143628 | 53142 | 58131 | 202388 | 80738 | 99442 | | | |

BTS-Gxx-H Range Hydraulic Actuators

Single-Return Torque Output
Canted Yoke Configuration



Air Shut (FO)

| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| GC0-H40 SR4 | 452 | 218 | 349 | | | | | | | 467 | 185 | 240 | 956 | 427 | 655 |
| GC0-H40 SR5 | 561 | 272 | 440 | | | | | | | | | | 864 | 373 | 547 |
| GC0-H40 SR6 | 692 | 336 | 544 | | | | | | | | | | 761 | 309 | 415 |
| GC0-H50 SR4 | 452 | 218 | 349 | 507 | 205 | 274 | 793 | 346 | 516 | 1078 | 487 | 759 | | | |
| GC0-H50 SR5 | 561 | 272 | 440 | | | | 701 | 292 | 408 | 987 | 433 | 651 | | | |
| GC0-H50 SR6 | 692 | 336 | 544 | | | | | | | 883 | 369 | 519 | | | |
| GC1-H40 SR4 | 782 | 380 | 615 | | | | | | | | | | 883 | 361 | 489 |
| GC1-H50 SR4 | 782 | 380 | 615 | | | | | | | 1186 | 510 | 746 | 2266 | 1044 | 1662 |
| GC1-H50 SR5 | 978 | 475 | 768 | | | | | | | 1032 | 415 | 550 | 2113 | 949 | 1467 |
| GC1-H50 SR6 | 1169 | 578 | 960 | | | | | | | | | | 1920 | 846 | 1276 |
| GC1-H50 SR7 | 1574 | 786 | 1327 | | | | | | | | | | 1554 | 637 | 870 |
| GC1-H63 SR4 | 782 | 380 | 615 | 1312 | 572 | 853 | 1954 | 890 | 1398 | 2596 | 1207 | 1943 | | | |
| GC1-H63 SR5 | 978 | 475 | 768 | 1158 | 478 | 657 | 1801 | 795 | 1202 | 2443 | 1112 | 1747 | | | |
| GC1-H63 SR6 | 1169 | 578 | 960 | 966 | 375 | 466 | 1609 | 692 | 1011 | 2251 | 1009 | 1556 | | | |
| GC1-H63 SR7 | 1574 | 786 | 1327 | | | | | | | 1884 | 801 | 1151 | 3811 | 1753 | 2786 |
| GC1-H63 SR8 | 2267 | 1083 | 1712 | | | | | | | | | | 3426 | 1456 | 2093 |
| GC2-H50 SR4 | 1574 | 769 | 1256 | | | | | | | | | | 2511 | 1093 | 1623 |
| GC2-H50 SR5 | 1999 | 1019 | 1770 | | | | | | | | | | 1997 | 842 | 1198 |
| GC2-H63 SR4 | 1574 | 769 | 1256 | 1264 | 476 | 564 | 2104 | 891 | 1277 | 2943 | 1306 | 1989 | 5463 | 2552 | 4127 |
| GC2-H63 SR5 | 2331 | 1164 | 1962 | | | | | | | 2237 | 912 | 1232 | 4756 | 2157 | 3370 |
| GC2-H63 SR6 | 1999 | 1019 | 1770 | | | | | | | 2429 | 1056 | 1565 | 4948 | 2301 | 3703 |
| GC2-H63 SR7 | 2796 | 1414 | 2425 | | | | | | | | | | 4293 | 1907 | 2905 |
| GC2-H80 SR4 | 1574 | 769 | 1256 | 2888 | 1279 | 1942 | 4269 | 1962 | 3114 | 5651 | 2644 | 4287 | | | |
| GC2-H80 SR5 | 2331 | 1164 | 1962 | 2182 | 884 | 1185 | 3563 | 1567 | 2358 | 4944 | 2249 | 3530 | | | |
| GC2-H80 SR6 | 1999 | 1019 | 1770 | 2374 | 1028 | 1518 | 3755 | 1711 | 2690 | 5136 | 2394 | 3862 | | | |
| GC2-H80 SR7 | 2796 | 1414 | 2425 | | | | 3100 | 1317 | 1892 | 4481 | 1999 | 3064 | | | |
| GC2-H100 SR4 | 1574 | 769 | 1256 | 5600 | 2620 | 4244 | | | | | | | | | |

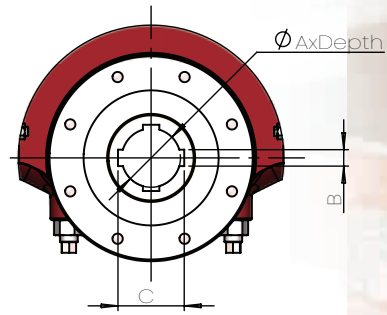
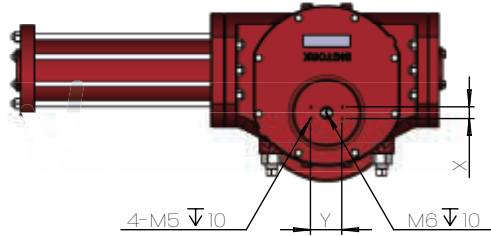
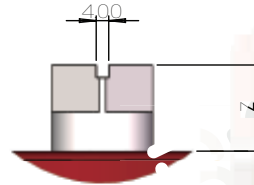
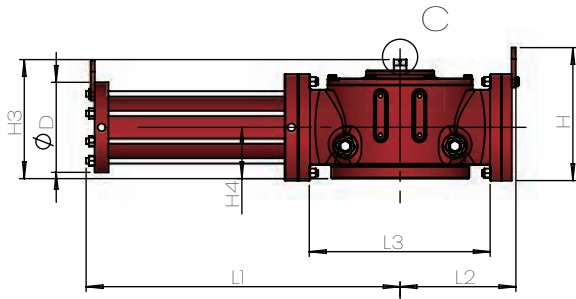
| Actuator model | Torque outputs at different oil supply pressure (Unit:Nm) | | | | | | | | | | | | | | |
|----------------|---|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| GC2-H100 SR5 | 2331 | 1164 | 1962 | 4894 | 2225 | 3487 | | | | | | | | | |
| GC2-H100 SR6 | 1999 | 1019 | 1770 | 5086 | 2369 | 3820 | | | | | | | | | |
| GC2-H100 SR7 | 2796 | 1414 | 2425 | 4431 | 1975 | 3022 | | | | | | | | | |
| GC3-H2050 SR4 | 3276 | 1634 | 2751 | | | | | | | 3003 | 1210 | 1607 | 6456 | 2916 | 4537 |
| GC3-H2050 SR5 | 4465 | 2192 | 3610 | | | | | | | | | | 5596 | 2358 | 3348 |
| GC3-H2050 SR6 | 5700 | 2783 | 4547 | | | | | | | | | | 4659 | 1766 | 2112 |
| GC3-H63 SR4 | 3276 | 1634 | 2751 | | | | | | | | | | 4141 | 1772 | 2572 |
| GC3-H63 SR5 | 4465 | 2192 | 3610 | | | | | | | | | | 3281 | 1214 | 1383 |
| GC3-H80 SR4 | 3276 | 1634 | 2751 | | | | | | | 4968 | 2181 | 3274 | 9599 | 4470 | 7204 |
| GC3-H80 SR5 | 4465 | 2192 | 3610 | | | | | | | 4108 | 1622 | 2086 | 8740 | 3911 | 6016 |
| GC3-H80 SR6 | 5700 | 2783 | 4547 | | | | | | | | | | 7803 | 3320 | 4780 |
| GC3-H80 SR7 | 6797 | 3253 | 5154 | | | | | | | | | | 7196 | 2851 | 3684 |
| GC3-H100 SR4 | 3276 | 1634 | 2751 | 4323 | 1862 | 2726 | 6680 | 3027 | 4727 | 9038 | 4192 | 6728 | | | |
| GC3-H100 SR5 | 4465 | 2192 | 3610 | 3463 | 1303 | 1538 | 5821 | 2469 | 3538 | 8178 | 3634 | 5539 | | | |
| GC3-H100 SR6 | 5700 | 2783 | 4547 | | | | 4884 | 1877 | 2303 | 7242 | 3042 | 4304 | | | |
| GC3-H100 SR7 | 6797 | 3253 | 5154 | | | | | | | 6634 | 2573 | 3207 | | | |
| GC3-H120 SR4 | 3276 | 1634 | 2751 | 9059 | 4203 | 6746 | 12996 | 6148 | 10087 | | | | | | |
| GC3-H120 SR5 | 4465 | 2192 | 3610 | 8199 | 3644 | 5557 | 12136 | 5590 | 8898 | | | | | | |
| GC3-H120 SR6 | 5700 | 2783 | 4547 | 7263 | 3053 | 4322 | 11199 | 4998 | 7662 | | | | | | |
| GC3-H120 SR7 | 6797 | 3253 | 5154 | | | | 10592 | 4529 | 6566 | | | | | | |
| GC4-H2063 SR4 | 5017 | 2479 | 4122 | | | | | | | 6083 | 2564 | 3643 | 12207 | 5590 | 8840 |
| GC4-H2063 SR5 | 6540 | 3194 | 5217 | | | | | | | 4989 | 1850 | 2120 | 11112 | 4876 | 7317 |
| GC4-H2063 SR6 | 8069 | 3976 | 6584 | | | | | | | | | | 9745 | 4093 | 5788 |
| GC4-H2063 SR7 | 9256 | 4548 | 7499 | | | | | | | | | | 8830 | 3522 | 4601 |
| GC4-H100 SR4 | 5017 | 2479 | 4122 | 3124 | 1101 | 1132 | 5539 | 2295 | 3182 | 7955 | 3489 | 5231 | 15201 | 7070 | 11380 |
| GC4-H100 SR5 | 6540 | 3194 | 5217 | | | | 4444 | 1581 | 1658 | 6860 | 2775 | 3708 | 14106 | 6356 | 9857 |
| GC4-H100 SR6 | 8069 | 3976 | 6584 | | | | | | | | | | 12739 | 5573 | 8329 |
| GC4-H100 SR7 | 9256 | 4548 | 7499 | | | | | | | | | | 11824 | 5001 | 7142 |
| GC4-H2080 SR4 | 5017 | 2479 | 4122 | 6699 | 2868 | 4165 | 10305 | 4651 | 7226 | 13912 | 6433 | 10287 | | | |
| GC4-H2080 SR5 | 6540 | 3194 | 5217 | 5604 | 2154 | 2642 | 9211 | 3936 | 5703 | 12817 | 5719 | 8764 | | | |
| GC4-H2080 SR6 | 8069 | 3976 | 6584 | | | | 7844 | 3154 | 4175 | 11450 | 4936 | 7236 | | | |
| GC4-H2080 SR7 | 9256 | 4548 | 7499 | | | | 6929 | 2582 | 2988 | 10536 | 4365 | 6048 | 21357 | 9712 | 15231 |
| GC4-H120 SR4 | 5017 | 2479 | 4122 | 7375 | 3202 | 4739 | 11207 | 5096 | 7992 | 15040 | 6990 | 11244 | | | |
| GC4-H120 SR5 | 6540 | 3194 | 5217 | 6280 | 2488 | 3216 | 10112 | 4382 | 6468 | 13945 | 6276 | 9721 | | | |
| GC4-H120 SR6 | 8069 | 3976 | 6584 | | | | 8745 | 3599 | 4940 | 12578 | 5493 | 8192 | | | |
| GC4-H120 SR7 | 9256 | 4548 | 7499 | | | | 7831 | 3028 | 3753 | 11663 | 4922 | 7005 | | | |
| GC4-H140 SR4 | 5017 | 2479 | 4122 | 12399 | 5685 | 9003 | 17906 | 8406 | 13676 | | | | | | |
| GC4-H140 SR5 | 6540 | 3194 | 5217 | 11304 | 4971 | 7480 | 16811 | 7692 | 12153 | | | | | | |
| GC4-H140 SR6 | 8069 | 3976 | 6584 | 9937 | 4188 | 5951 | 15444 | 6910 | 10625 | 20951 | 9631 | 15298 | | | |

| Actuator model | Torque outputs at different oil supply pressure (UnitNm) | | | | | | | | | | | | | | |
|-------------------|--|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| GC4-H140 SR7 | 9256 | 4548 | 7499 | 9022 | 3617 | 4764 | 14529 | 6338 | 9437 | 20036 | 9059 | 14111 | | | |
| GC5-H100 SR4 | 10741 | 5202 | 8397 | | | | | | | | | | 13538 | 5637 | 7873 |
| GC5-H100 SR5 | 13490 | 6417 | 10074 | | | | | | | | | | 11861 | 4423 | 5124 |
| GC5-H2080 SR4 | 10741 | 5202 | 8397 | | | | | | | 11310 | 4536 | 5982 | 23134 | 10380 | 16016 |
| GC5-H2080 SR5 | 13490 | 6417 | 10074 | | | | | | | 9633 | 3322 | 3234 | 21457 | 9165 | 13268 |
| GC5-H2080 SR6 | 16112 | 7514 | 11424 | | | | | | | | | | 20107 | 8068 | 10646 |
| GC5-H120 SR4 | 10741 | 5202 | 8397 | | | | 12210 | 4981 | 6746 | 17361 | 7527 | 11117 | 32816 | 15165 | 24233 |
| GC5-H120 SR5 | 13490 | 6417 | 10074 | | | | 10533 | 3766 | 3997 | 15684 | 6312 | 8369 | 31139 | 13950 | 21484 |
| GC5-H120 SR6 | 16112 | 7514 | 11424 | | | | | | | 14334 | 5215 | 5747 | 29789 | 12853 | 18862 |
| GC5-H120 SR7 | 20619 | 10153 | 16794 | | | | | | | | | | 24419 | 10214 | 14355 |
| GC5-H140 SR4 | 10741 | 5202 | 8397 | 12167 | 4960 | 6709 | 19021 | 8347 | 12526 | 25876 | 11735 | 18343 | 46440 | 21897 | 35794 |
| GC5-H140 SR5 | 13490 | 6417 | 10074 | 10490 | 3745 | 3961 | 17344 | 7133 | 9778 | 24199 | 10520 | 15594 | 44763 | 20682 | 33045 |
| GC5-H140 SR6 | 16112 | 7514 | 11424 | | | | 15994 | 6035 | 7155 | 22849 | 9423 | 12972 | 43412 | 19585 | 30423 |
| GC5-H140 SR7 | 20619 | 10153 | 16794 | | | | | | | 17479 | 6784 | 8465 | 38043 | 16946 | 25916 |
| GC7-H140 SR4 | 18668 | 9115 | 14891 | | | | 15511 | 5909 | 7132 | 23112 | 9666 | 13582 | 45914 | 20934 | 32932 |
| GC7-H140 SR5 | 23686 | 11358 | 18055 | | | | | | | 19948 | 7422 | 8563 | 42750 | 18691 | 27913 |
| GC7-H140 SR6 | 25409 | 12156 | 19255 | | | | | | | 18748 | 6624 | 6841 | 41550 | 17893 | 26191 |
| GC7-H140 SR7 | 31273 | 15366 | 25335 | | | | | | | | | | 35469 | 14683 | 20327 |
| GC7-H2100 SR4 | 18668 | 9115 | 14891 | | | | 19027 | 7647 | 10116 | 27507 | 11837 | 17312 | 52946 | 24409 | 38899 |
| GC7-H2100 SR5 | 23686 | 11358 | 18055 | | | | 15863 | 5404 | 5097 | 24343 | 9594 | 12293 | 49781 | 22166 | 33881 |
| GC7-H2100 SR6 | 25409 | 12156 | 19255 | | | | | | | 23143 | 8796 | 10570 | 48582 | 21368 | 32158 |
| GC7-H2100 SR7 | 31273 | 15366 | 25335 | | | | | | | | | | 42501 | 18158 | 26295 |
| GC7-H2125 SR4 | 18668 | 9115 | 14891 | 25982 | 11084 | 16017 | 39606 | 17817 | 27579 | 53230 | 24549 | 39141 | 94103 | 44748 | 73826 |
| GC7-H2125 SR5 | 23686 | 11358 | 18055 | 22817 | 8841 | 10999 | 36442 | 15573 | 22560 | 50066 | 22306 | 34122 | 90938 | 42505 | 68807 |
| GC7-H2125 SR6 | 25409 | 12156 | 19255 | 21618 | 8043 | 9276 | 35242 | 14775 | 20838 | 48866 | 21508 | 32399 | 89739 | 41707 | 67084 |
| GC7-H2125 SR7 | 31273 | 15366 | 25335 | | | | 29161 | 11566 | 14974 | 42786 | 18299 | 26536 | 83658 | 38497 | 61221 |
| GC7-H2140 SR4 | 18668 | 9115 | 14891 | 38313 | 17178 | 26482 | 56048 | 25942 | 41532 | 73783 | 34706 | 56582 | | | |
| GC7-H2140 SR5 | 23686 | 11358 | 18055 | 35149 | 14935 | 21463 | 52884 | 23699 | 36513 | 70618 | 32463 | 51563 | | | |
| GC7-H2140 SR6 | 25409 | 12156 | 19255 | 33949 | 14137 | 19741 | 51684 | 22901 | 34791 | 69419 | 31665 | 49841 | | | |
| GC7-H2140 SR7 | 31273 | 15366 | 25335 | 27869 | 10927 | 13877 | 45604 | 19691 | 28927 | 63338 | 28455 | 43977 | | | |
| GC7-H160 SR4 | 18668 | 9115 | 14891 | 17218 | 6753 | 8580 | 27921 | 12042 | 17663 | 38623 | 17331 | 26745 | 70732 | 33199 | 53993 |
| GC7-H160 SR5 | 23686 | 11358 | 18055 | | | | 24756 | 9799 | 12644 | 35459 | 15088 | 21727 | 67568 | 30956 | 48975 |
| GC7-H160 SR6 | 25409 | 12156 | 19255 | | | | 23557 | 9001 | 10921 | 34260 | 14290 | 20004 | 66368 | 30158 | 47252 |
| GC7-H160 SR7 | 31273 | 15366 | 25335 | | | | | | | 28179 | 11080 | 14141 | 60288 | 26948 | 41388 |
| GC7-H180 SR4 | 18668 | 9115 | 14891 | 27765 | 11965 | 17531 | 41984 | 18992 | 29597 | 56203 | 26019 | 41664 | 98860 | 47099 | 77862 |
| GC7-H180 SR5 | 23686 | 11358 | 18055 | 24601 | 9722 | 12512 | 38820 | 16749 | 24579 | 53039 | 23776 | 36645 | 95695 | 44856 | 72844 |
| GC7-H180 SR6 | 25409 | 12156 | 19255 | 23402 | 8924 | 10790 | 37620 | 15951 | 22856 | 51839 | 22978 | 34922 | 94496 | 44058 | 71121 |
| GC7-H180 SR7 | 31273 | 15366 | 25335 | | | | 31540 | 12741 | 16993 | 45759 | 19768 | 29059 | 88415 | 40848 | 65258 |
| GC8-H160 SR4 | 37170 | 18263 | 30113 | | | | | | | 28884 | 10892 | 12896 | 64282 | 28385 | 42935 |
| GC8-H160 SR5 | 49519 | 23254 | 35756 | | | | | | | | | | 58639 | 23395 | 30585 |
| GC8-H160 SR6 | 58380 | 28025 | 44623 | | | | | | | | | | 49771 | 18624 | 21725 |

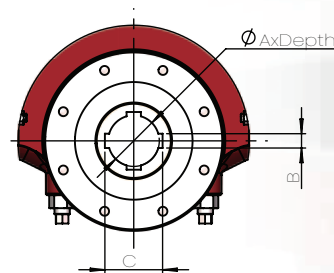
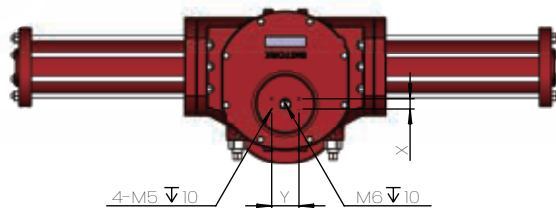
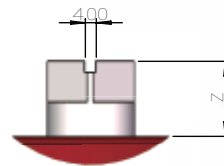
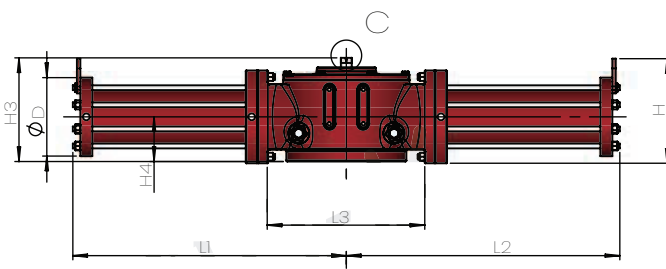
| Actuator model | Torque outputs at different oil supply pressure (UnitNm) | | | | | | | | | | | | | | |
|-------------------|--|----------|----------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|
| | spring return torque | | | 60 bar | | | 80 bar | | | 100 bar | | | 160 bar | | |
| | BTO(0°) | RTO(45°) | ETO(90°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) | BTC(90°) | RTC(45°) | ETC(0°) |
| GC8-H2125 SR4 | 37170 | 18263 | 30113 | | | | 30973 | 11924 | 14669 | 46245 | 19471 | 27628 | 92059 | 42112 | 66507 |
| GC8-H2125 SR5 | 49519 | 23254 | 35756 | | | | | | | 40602 | 14481 | 15279 | 86417 | 37122 | 54158 |
| GC8-H2125 SR6 | 58380 | 28025 | 44623 | | | | | | | | | | 77549 | 32351 | 45297 |
| GC8-H2125 SR7 | 78227 | 36444 | 55309 | | | | | | | | | | 66863 | 23932 | 25450 |
| GC8-H180 SR4 | 37170 | 18263 | 30113 | | | | 33800 | 13321 | 17068 | 49778 | 21218 | 30627 | 97713 | 44906 | 71305 |
| GC8-H180 SR5 | 49519 | 23254 | 35756 | | | | | | | 44136 | 16228 | 18278 | 92070 | 39916 | 58956 |
| GC8-H180 SR6 | 58380 | 28025 | 44623 | | | | | | | | | | 83203 | 35145 | 50095 |
| GC8-H180 SR7 | 78227 | 36444 | 55309 | | | | | | | | | | 72517 | 26726 | 30248 |
| GC8-H2140 SR4 | 37170 | 18263 | 30113 | 30359 | 11621 | 14147 | 50516 | 21582 | 31253 | 70673 | 31543 | 48359 | 131145 | 61428 | 99676 |
| GC8-H2140 SR5 | 49519 | 23254 | 35756 | | | | 44873 | 16592 | 18903 | 65030 | 26553 | 36009 | 125502 | 56438 | 87326 |
| GC8-H2140 SR6 | 58380 | 28025 | 44623 | | | | | | | 56163 | 21782 | 27149 | 116634 | 51666 | 78466 |
| GC8-H2140 SR7 | 78227 | 36444 | 55309 | | | | | | | | | | 105948 | 43247 | 58618 |
| GC8-H2160 SR4 | 37170 | 18263 | 30113 | 52482 | 22554 | 32922 | 80014 | 36160 | 56286 | 107546 | 49766 | 79649 | | | |
| GC8-H2160 SR5 | 49519 | 23254 | 35756 | 46840 | 17564 | 20572 | 74371 | 31170 | 43936 | 101903 | 44775 | 67300 | | | |
| GC8-H2160 SR6 | 58380 | 28025 | 44623 | 37972 | 12793 | 11712 | 65504 | 26399 | 35076 | 93036 | 40004 | 58439 | | | |
| GC8-H2160 SR7 | 78227 | 36444 | 55309 | | | | 54818 | 17979 | 15228 | 82349 | 31585 | 38592 | | | |
| GC8-H200 SR4 | 37170 | 18263 | 30113 | 31834 | 12350 | 15399 | 52482 | 22554 | 32922 | 73131 | 32758 | 50445 | 135078 | 63371 | 103013 |
| GC8-H200 SR5 | 49519 | 23254 | 35756 | | | | 46840 | 17564 | 20572 | 67489 | 27768 | 38095 | 129435 | 58381 | 90664 |
| GC8-H200 SR6 | 58380 | 28025 | 44623 | | | | | | | 37972 | 12793 | 11712 | 58621 | 22997 | 29235 |
| GC8-H200 SR7 | 78227 | 36444 | 55309 | | | | | | | | | | 120567 | 53610 | 81803 |
| GC9-H180 SR4 | 64704 | 30416 | 46847 | | | | | | | | | | 109881 | 45191 | 61956 |
| GC9-H180 SR5 | 79770 | 37539 | 57924 | | | | | | | | | | 96107 | 40230 | 56608 |
| GC9-H200 SR4 | 64704 | 30416 | 46847 | | | | | | | | | | 85029 | 33106 | 41542 |
| GC9-H200 SR5 | 79770 | 37539 | 57924 | | | | | | | | | | 144609 | 64199 | 97767 |
| GC9-H200 SR6 | 98295 | 46509 | 72394 | | | | | | | | | | 133531 | 57075 | 82702 |
| GC9-H200 SR7 | 122869 | 57242 | 86873 | | | | | | | | | | 119061 | 48106 | 64176 |
| GC9-H220 SR4 | 64704 | 30416 | 46847 | | | | | | | | | | 104582 | 37373 | 39602 |
| GC9-H220 SR5 | 79770 | 37539 | 57924 | | | | | | | | | | 198216 | 90691 | 143259 |
| GC9-H220 SR6 | 98295 | 46509 | 72394 | | | | | | | 75685 | 30138 | 39277 | 106318 | 45276 | 65273 |
| GC9-H220 SR7 | 122869 | 57242 | 86873 | | | | | | | 64607 | 23014 | 24212 | 95240 | 38152 | 50207 |
| GC9-H2160 SR4 | 64704 | 30416 | 46847 | | | | | | | | | | 187138 | 83567 | 128194 |
| GC9-H2160 SR5 | 79770 | 37539 | 57924 | | | | | | | | | | 172669 | 74598 | 109668 |
| GC9-H2160 SR6 | 98295 | 46509 | 72394 | | | | | | | | | | 158190 | 63865 | 85094 |
| GC9-H2160 SR7 | 122869 | 57242 | 86873 | | | | | | | | | | | | |
| GC9-H2180 SR4 | 64704 | 30416 | 46847 | | | | | | | 84619 | 34553 | 46859 | 117486 | 50795 | 74750 |
| GC9-H2180 SR5 | 79770 | 37539 | 57924 | | | | | | | 73542 | 27429 | 31794 | 106408 | 43671 | 59685 |
| GC9-H2180 SR6 | 98295 | 46509 | 72394 | | | | | | | | | | 91938 | 34702 | 41159 |
| GC9-H2180 SR7 | 122869 | 57242 | 86873 | | | | | | | | | | 190538 | 83428 | 124832 |
| GC9-H2180 SR4 | 64704 | 30416 | 46847 | | | | | | | 77460 | 23969 | 16586 | 176059 | 72695 | 100258 |
| GC9-H2180 SR5 | 79770 | 37539 | 57924 | | | | | | | | | | 205008 | 92398 | 143358 |
| GC9-H2180 SR6 | 98295 | 46509 | 72394 | | | | | | | | | | | | |
| GC9-H2180 SR7 | 122869 | 57242 | 86873 | | | | | | | | | | | | |
| GC9-H2200 SR4 | 64704 | 30416 | 46847 | | | | | | | | | | | | |
| GC9-H2200 SR5 | 79770 | 37539 | 57924 | | | | | | | | | | | | |
| GC9-H2200 SR6 | 98295 | 46509 | 72394 | | | | | | | | | | | | |
| GC9-H2200 SR7 | 122869 | 57242 | 86873 | | | | | | | | | | | | |
| GC9-H2180 SR4 | 64704 | 30416 | 46847 | 84300 | 34395 | 46589 | 128016 | 55999 | 83686 | 171731 | 77603 | 120784 | | | |
| GC9-H2180 SR5 | 79770 | 37539 | 57924 | 73223 | 27271 | 31523 | 116938 | 48875 | 68621 | 160654 | 70479 | 105719 | 291801 | 135290 | 217012 |
| GC9-H2180 SR6 | 98295 | 46509 | 72394 | | | | | | | | | | | | |
| GC9-H2180 SR7 | 122869 | 57242 | 86873 | | | | | | | | | | | | |
| GC9-H2200 SR4 | 64704 | 30416 | 46847 | 120677 | 52372 | 77458 | 176518 | 79968 | 124846 | 232359 | 107564 | 172233 | | | |
| GC9-H2200 SR5 | 79770 | 37539 | 57924 | 109599 | 45248 | 62393 | 165440 | 72844 | 109780 | 221281 | 100440 | 157168 | | | |
| GC9-H2200 SR6 | 98295 | 46509 | 72394 | 95129 | 36279 | 43867 | 150971 | 63875 | 91255 | 206812 | 91471 | 138642 | | | |
| GC9-H2200 SR7 | 122869 | 57242 | 86873 | | | | | | | | | | | | |
| GC9-H2200 SR7 | 122869 | 57242 | 86873 | | | | | | | | | | | | |

Overall Dimensions

Double-Acting & Single-Cylinder Configuraion
(Symmetric/Canted Yoke)



Double-Acting & Double-Cylinder Configuraion
(Symmetric/Canted Yoke)



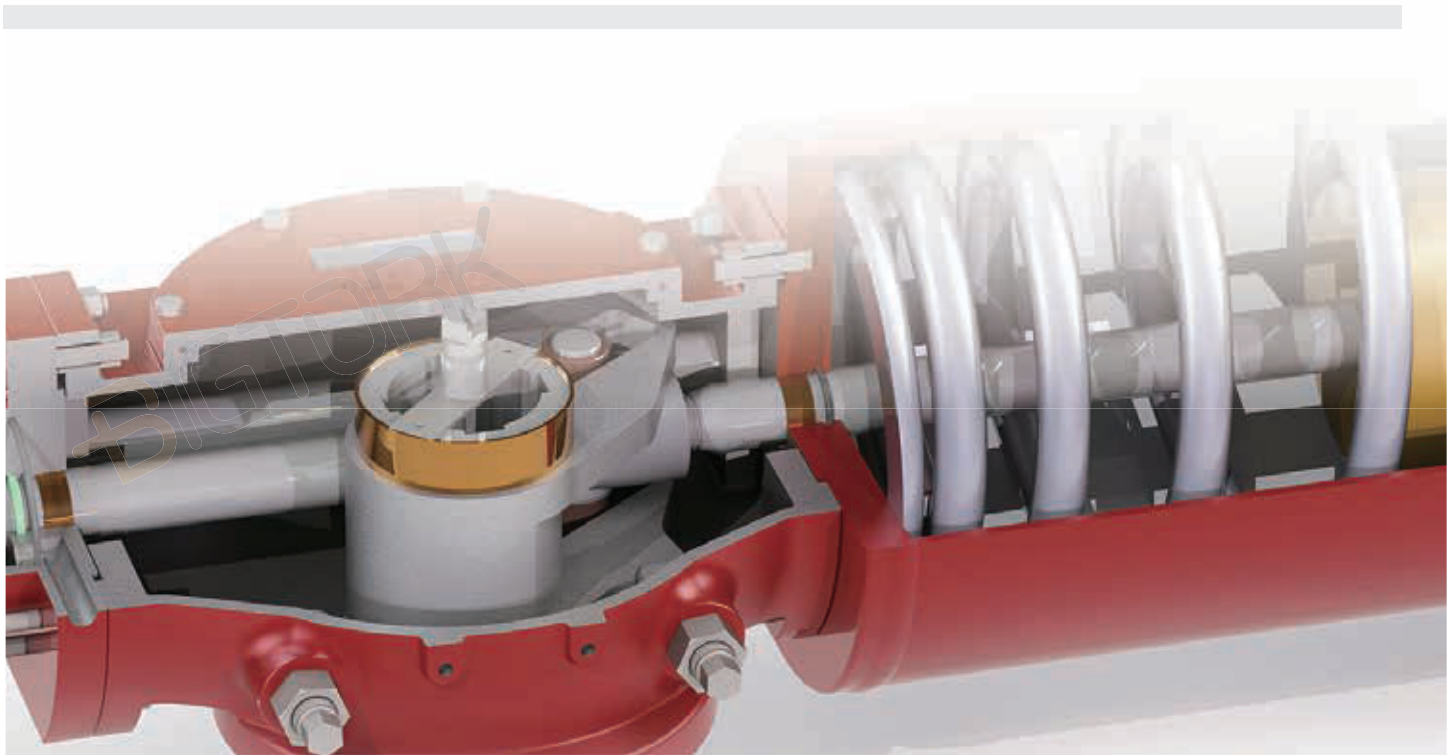
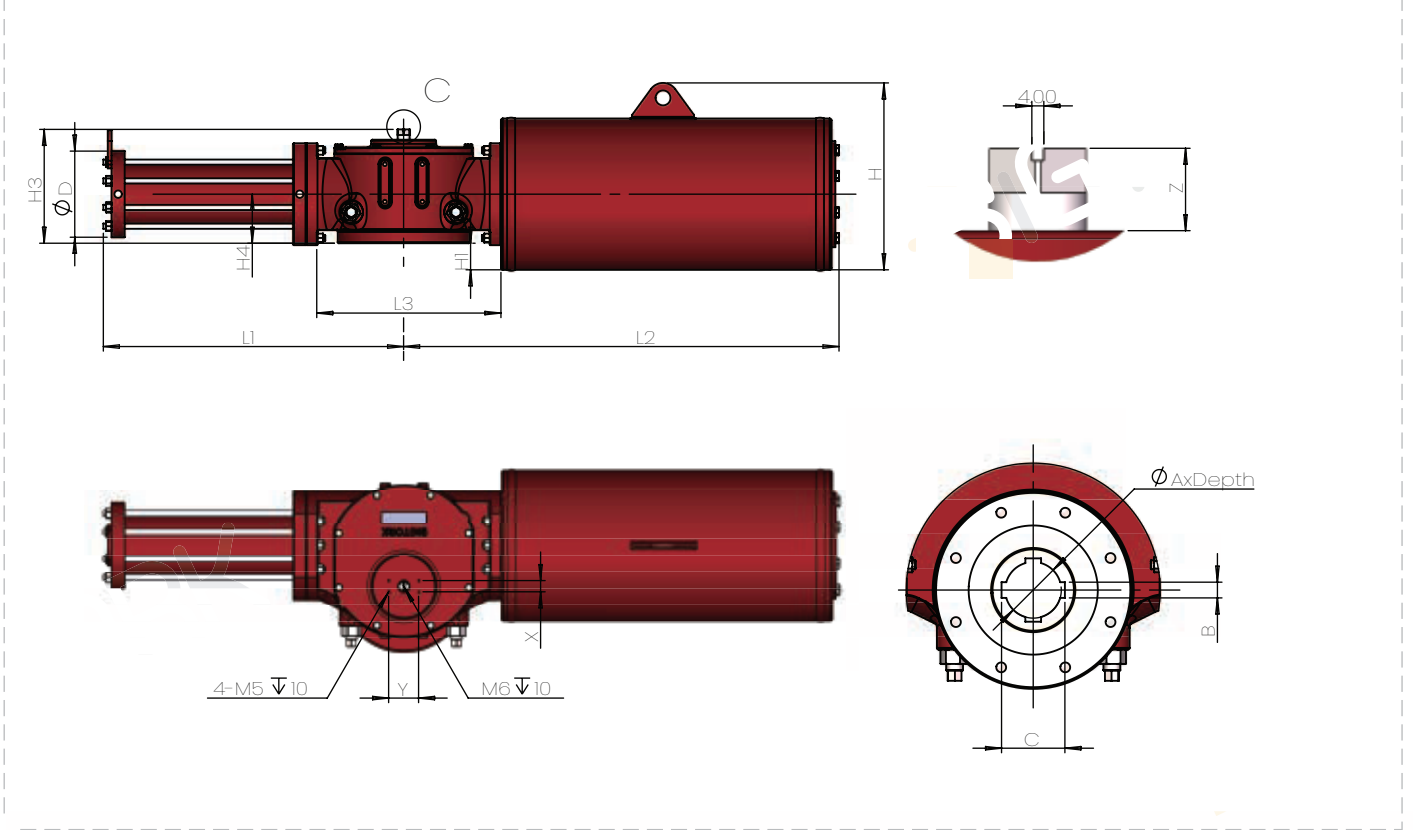
Hydraulic Scotch Yoke Actuator – Overall Dimensions

| MODEL | D | L | L1 | L2 | L3 | H1 | H2 | H3 | H4 | A*Depth | B | C | X*Y*Z | Flanges to ISO5211 | Pipe/Port Size to air supply |
|----------|-----|------|------|------|------|-----|-----|-----|-----|----------|----|-------|-----------|--------------------|------------------------------|
| G0-H32 | 137 | 566 | 430 | 36 | 240 | 40 | 31 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G3/8" |
| G0-H40 | 145 | 566 | 430 | 136 | 240 | 50 | 31 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G3/8" |
| G0-H50 | 155 | 566 | 430 | 136 | 240 | 50 | 31 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G3/8" |
| G1-H40 | 145 | 710 | 545 | 165 | 290 | 50 | 53 | 219 | 86 | Φ40x70 | 12 | 46.6 | 30x80x20 | F14 | G3/8" |
| G1-H50 | 155 | 710 | 545 | 165 | 290 | 74 | 53 | 219 | 86 | Φ40x70 | 12 | 46.6 | 30x80x20 | F14 | G3/8" |
| G1-H63 | 168 | 710 | 545 | 165 | 290 | 99 | 53 | 219 | 86 | Φ40x70 | 12 | 46.6 | 30x80x20 | F14 | G3/8" |
| G2-H50 | 155 | 789 | 602 | 187 | 334 | 69 | 53 | 229 | 91 | Φ50x90 | 14 | 57.6 | 30x80x20 | F16 | G3/8" |
| G2-H63 | 168 | 789 | 602 | 187 | 334 | 97 | 53 | 229 | 91 | Φ50x90 | 14 | 57.6 | 30x80x20 | F16 | G3/8" |
| G2-H80 | 185 | 789 | 602 | 187 | 334 | 122 | 53 | 229 | 91 | Φ50x90 | 14 | 57.6 | 30x80x20 | F16 | G1/2" |
| G2-H100 | 205 | 789 | 602 | 187 | 334 | 122 | 53 | 229 | 91 | Φ50x90 | 14 | 57.6 | 30x80x20 | F16 | G1/2" |
| G3-H2050 | 155 | 1340 | 670 | 670 | 390 | 103 | 70 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G3/8" |
| G3-H63 | 168 | 890 | 670 | 220 | 390 | 128 | 70 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G3/8" |
| G3-H80 | 185 | 890 | 670 | 220 | 390 | 153 | 70 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G3-H100 | 205 | 890 | 670 | 220 | 390 | 153 | 70 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G3-H120 | 225 | 890 | 670 | 220 | 390 | 153 | 70 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G4-H2063 | 168 | 1576 | 788 | 788 | 475 | 109 | 72 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G3/8" |
| G4-H100 | 205 | 1046 | 788 | 258 | 475 | 132 | 72 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G1/2" |
| G4-H2080 | 185 | 1576 | 788 | 788 | 475 | 159 | 72 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G1/2" |
| G4-H120 | 225 | 1046 | 788 | 258 | 475 | 159 | 72 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G1/2" |
| G4-H140 | 245 | 1046 | 788 | 258 | 475 | 159 | 72 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G3/4" |
| G5-H100 | 205 | 1180 | 847 | 333 | 595 | 133 | 72 | 364 | 157 | Φ98x180 | 28 | 110.8 | 30x130x30 | F35/F30 | G1/2" |
| G5-H2080 | 185 | 1694 | 847 | 847 | 595 | 153 | 72 | 364 | 157 | Φ98x180 | 28 | 110.8 | 30x130x30 | F35/F30 | G1/2" |
| G5-H120 | 225 | 1180 | 847 | 333 | 595 | 183 | 72 | 364 | 157 | Φ98x180 | 28 | 110.8 | 30x130x30 | F35/F30 | G1/2" |
| G5-H140 | 245 | 1180 | 847 | 333 | 595 | 233 | 72 | 364 | 157 | Φ98x180 | 28 | 110.8 | 30x130x30 | F35/F30 | G3/4" |
| G7-H140 | 245 | 1475 | 1073 | 402 | 736 | 152 | 109 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G7-H2100 | 205 | 2146 | 1073 | 1073 | 736 | 202 | 109 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G1/2" |
| G7-H2125 | 230 | 2146 | 1073 | 1073 | 736 | 102 | 109 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G1/2" |
| G7-H2140 | 245 | 2146 | 1073 | 1073 | 736 | 252 | 109 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G7-H160 | 265 | 2066 | 1073 | 993 | 736 | 127 | 109 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G7-H180 | 285 | 1475 | 1073 | 402 | 736 | 257 | 109 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G8-H160 | 265 | 1749 | 1288 | 461 | 850 | 152 | 100 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G8-H2125 | 230 | 2576 | 1288 | 1288 | 850 | 282 | 100 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G1/2" |
| G8-H180 | 185 | 1749 | 1288 | 461 | 850 | 282 | 100 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G8-H2140 | 245 | 2576 | 1288 | 1288 | 850 | 182 | 100 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G8-H2160 | 265 | 2576 | 1288 | 1288 | 850 | 332 | 100 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G8-H200 | 305 | 1749 | 1288 | 461 | 850 | 208 | 100 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G9-H180 | 285 | 2094 | 1494 | 600 | 1080 | 308 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | G3/4" |
| G9-H200 | 305 | 2094 | 1494 | 600 | 1080 | 208 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | G3/4" |
| G9-H220 | 325 | 2094 | 1494 | 600 | 1080 | 353 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | G3/4" |
| G9-H2160 | 265 | 2988 | 1494 | 1494 | 1080 | 408 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | G3/4" |
| G9-H2180 | 285 | 2988 | 1494 | 1494 | 1080 | 308 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | G3/4" |
| G9-H2200 | 305 | 2988 | 1494 | 1494 | 1080 | 408 | 100 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/F48 | G3/4" |

* There are two F standard specifications, and the ISO 5211 flange positioning stop port is non-standard, please pay attention to check

Overall Dimensions

— Spring-Return Configuration (Symmetric/Canted Yoke)



Hydraulic Scotch Yoke Actuator – Overall Dimensions

| MODEL | D | L | L1 | L2 | L3 | H | H1 | H3 | H4 | A*Depth | B | C | X * Y * Z | Flanges to ISO5211 | Pipe/Port Size to air supply |
|-----------------|-----|------|------|------|------|-----|-----|-----|-----|----------|----|-------|-----------|--------------------|------------------------------|
| G0-H40 | 145 | 1019 | 430 | 589 | 240 | 220 | 40 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G3/8" |
| G0-H50 | 155 | 1019 | 430 | 589 | 240 | 220 | 50 | 179 | 75 | Φ36x60 | 10 | 42.6 | 30x80x20 | F12/F10 | G3/8" |
| G1-H40 | 145 | 1405 | 545 | 860 | 290 | 300 | 50 | 219 | 86 | Φ40x70 | 12 | 46.6 | 30x80x20 | F14 | G3/8" |
| G1-H50 | 155 | 1405 | 545 | 860 | 290 | 300 | 74 | 219 | 86 | Φ40x70 | 12 | 46.6 | 30x80x20 | F14 | G3/8" |
| G1-H63 | 168 | 1405 | 545 | 860 | 290 | 300 | 99 | 219 | 86 | Φ40x70 | 12 | 46.6 | 30x80x20 | F14 | G3/8" |
| G2-H50 | 155 | 1513 | 602 | 911 | 334 | 300 | 77 | 229 | 91 | Φ50x90 | 14 | 57.6 | 30x80x20 | F16 | G3/8" |
| G2-H63 | 168 | 1513 | 602 | 911 | 334 | 300 | 97 | 229 | 91 | Φ50x90 | 14 | 57.6 | 30x80x20 | F16 | G3/8" |
| G2-H80 | 185 | 1513 | 602 | 911 | 334 | 300 | 122 | 229 | 91 | Φ50x90 | 14 | 57.6 | 30x80x20 | F16 | G1/2" |
| G2-H100 | 205 | 1513 | 602 | 911 | 334 | 300 | 150 | 229 | 91 | Φ50x90 | 14 | 57.6 | 30x80x20 | F16 | G1/2" |
| G3-H2050 | 155 | 1730 | 670 | 1060 | 390 | 355 | 103 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G3/8" |
| G3-H63 | 168 | 1730 | 670 | 1060 | 390 | 355 | 128 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G3/8" |
| G3-H80 | 185 | 1730 | 670 | 1060 | 390 | 355 | 153 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G3-H100 | 205 | 1730 | 670 | 1060 | 390 | 355 | 190 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G3-H120 | 225 | 1730 | 670 | 1060 | 390 | 355 | 190 | 262 | 110 | Φ60x120 | 18 | 68.8 | 30x130x30 | F25/F16 | G1/2" |
| G4-H2063 | 168 | 1919 | 788 | 1131 | 475 | 480 | 109 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G3/8" |
| G4-H100 | 205 | 1919 | 788 | 1131 | 475 | 480 | 132 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G1/2" |
| G4-H2080 | 185 | 1919 | 788 | 1131 | 475 | 480 | 159 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G1/2" |
| G4-H120 | 225 | 1919 | 788 | 1131 | 475 | 480 | 185 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G1/2" |
| G4-H140 | 245 | 1919 | 788 | 1131 | 475 | 480 | 220 | 307 | 131 | Φ80x150 | 22 | 90.8 | 30x130x30 | F30/F25 | G3/4" |
| G5-H100 | 205 | 2202 | 847 | 1355 | 595 | 590 | 133 | 364 | 157 | Φ98x180 | 28 | 110.8 | 30x130x30 | F35/30 | G1/2" |
| G5-H2080 | 185 | 2202 | 847 | 1355 | 595 | 590 | 160 | 364 | 157 | Φ98x180 | 28 | 110.8 | 30x130x30 | F35/30 | G1/2" |
| G5-H120 | 225 | 2202 | 847 | 1355 | 595 | 590 | 183 | 364 | 157 | Φ98x180 | 28 | 110.8 | 30x130x30 | F35/30 | G1/2" |
| G5-H140 | 245 | 2546 | 847 | 1699 | 595 | 590 | 250 | 364 | 157 | Φ98x180 | 28 | 110.8 | 30x130x30 | F35/30 | G3/4" |
| G7-H140 | 245 | 2964 | 1073 | 1891 | 736 | 590 | 152 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G7-H2100 | 205 | 2964 | 1073 | 1891 | 736 | 590 | 202 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G1/2" |
| G7-H2125 | 230 | 2964 | 1073 | 1891 | 736 | 590 | 230 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G1/2" |
| G7-H2140 | 245 | 3124 | 1073 | 2051 | 736 | 590 | 257 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G7-H160 | 265 | 3124 | 1073 | 2051 | 736 | 590 | 290 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G7-H180 | 285 | 3124 | 1073 | 2051 | 736 | 590 | 320 | 385 | 199 | Φ120x200 | 32 | 134.8 | 30x130x30 | F40 | G3/4" |
| G8-H160 | 265 | 3588 | 1288 | 2300 | 850 | 700 | 282 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G8-H2125 | 230 | 3588 | 1288 | 2300 | 850 | 700 | 332 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G1/2" |
| G8-H180 | 285 | 3588 | 1288 | 2300 | 850 | 700 | 382 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G8-H2140 | 245 | 3588 | 1288 | 2300 | 850 | 700 | 382 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G8-H2160 | 265 | 3588 | 1288 | 2300 | 850 | 700 | 382 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G8-H200 | 305 | 3588 | 1288 | 2300 | 850 | 700 | 382 | 461 | 193 | Φ160x240 | 40 | 178.8 | 30x130x30 | F48/F40 | G3/4" |
| G9-H180 | 285 | 4121 | 1494 | 2627 | 1080 | 850 | 308 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | G3/4" |
| G9-H200 | 305 | 4121 | 1494 | 2627 | 1080 | 850 | 358 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | G3/4" |
| G9-H220 | 325 | 4121 | 1494 | 2627 | 1080 | 850 | 408 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | G3/4" |
| G9-H2160 | 265 | 4121 | 1494 | 2627 | 1080 | 850 | 308 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | G3/4" |
| G9-H2180 | 285 | 4121 | 1494 | 2627 | 1080 | 850 | 308 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | G3/4" |
| G9-H2200 | 305 | 4121 | 1494 | 2627 | 1080 | 850 | 308 | 502 | 249 | Φ220x250 | 50 | 242.8 | 30x130x30 | F60/48 | G3/4" |

* There are two F standard specifications, and the ISO 5211 flange positioning stop port is non-standard, please pay attention to check.

HOW TO AVOID PROBLEMS

- Ball valves shall be transported and stored with the ball in the fully open position.
- Flanged ends and welded ends shall be protected.
- End protection shall be removed only when the valve is installed in the line.
- Valves shall be handled using the proper lifting lugs.
- Valves shall be stored according to Elite storage procedures. Long term storage shall be avoided.
- For welded-end valves, advise Elite if there will be a post weld heat treatment (transition pups may be necessary to avoid damages to seals).
- Flush and clean the line before operating the valve.
- Make sure no line-testing fluid is left in the line and/or the valve body.
- Avoid leaving the valve body filled with salt water to prevent internal corrosion.
- During line-testing, valves shall be left in the partially open position for the minimum possible amount of time.
- Standard ball valves shall be used for on-off service only. Throttling service (use of the valve with the ball partially open) can damage the seats.
- Make sure to take into consideration the actual service conditions when selecting materials for O-rings and seat inserts.
- Always specify anti-explosive decompression material for valves to be used in high pressure gas service.
- Make sure the selected actuator has been properly sized (an oversized actuator can be as dangerous as an undersized one).
- Advise Elite of cycle frequency to ensure proper sizing of actuator.
- Do not use the actuator to lift the valve.

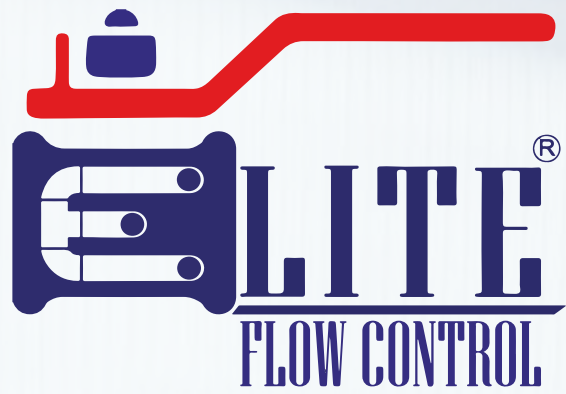
◀ WARRANTY CLAUSE

Elite Flow Control products are delivered with a standard guarantee of good performance for the period of 18 months after the delivery date or 12 months of operation after commissioning.

Warning: The scope of Warranty is covered for manufacturing defects only. In case the valve failure is due to the wrong operations by the customer the warranty is not applicable.

In order to claim the warranty due to the manufacturing defects, the customer needs to prepare the detailed rejection report including the inspection procedure, operational report, pictures of valves, if this report proves that the fault is due to the manufacturing defect, Elite will provide the appropriate solution.





WE CONTROL THE FLOW



Elite Flow Control USA LLC

13220 Murphy Road, Unit #100

Stafford, TX 77477

United States of America

Tel: 832-987-1774 / 832-539-6968

Email: contact@elitegoocl.com

Web: www.eliteflowusa.com

www.elitegoocl.com