

G-Series Pneumatic and Hydraulic Actuators

Next Generation Actuation Technologies Solutions



BETTIS™



Reseller & stockist
www.globalsupplyline.com.au
sales@globalsupplyline.com.au
Full stock list [click here](#)





Bettis™ G-Series
with Wireless Transmitter

Emerson sets the standards for innovation and quality in pneumatic and hydraulic valve automation

Lightweight, efficient and reliable - all in a compact, modular package

Available with either symmetric or canted yokes to suit your operating requirements



Bettis G-Series
with Topworx™ Positioner

Design and Construction

Emerson, a leading pioneer in the valve automation and control industry for more than 55-years, has developed numerous innovations that have become today's industry standards. With continued focus on ingenuity, reliability, quality and product safety, our entire product offering is considered to be the global standard for automating valves in the oil & gas, power generation, pulp and paper, petrochemical, chemical, wastewater, and numerous other process industries. Performance has been the main differentiator. Emerson is recognized for effectiveness and reliability in some of the world's most difficult operating environments.

G-Series pneumatic and hydraulic actuators provide the latest in valve actuation design. A highly unique and reliable means for operating ball, butterfly or plug valves along with louvers, dampers and other 90 degree rotating mechanisms, the G-Series carries an industry leading five-year warranty on materials and workmanship.

G-Series Application And Features

- PED 97/23/EC compliant to meet the stringent requirements of pressure mounting vessels
- Meets both IP66 and IP67M specifications for submergence and high pressure water deluge test. Offers superior water ingress and corrosion protection
- Suitability for use within the demanding applications of a SIL environment
- Available in both spring-return or double-acting configurations and can operate with either a symmetric or canted yoke
- Offers multiple configurations, with a modular design that enables safe field maintenance and reduced inventory costs
- More compact than other actuators of equal torque output – 1/3 lighter and 1/2 smaller
- Interchangeable power and spring modules for quick reversal of the fail-safe mode
- Close Loop Instrument System for actuators **should always be used** for the following applications: high humidity, salt air, corrosive dust, inks and dyes, wash downs. The closed loop system routes the operating media being exhausted from the power side of the cylinder to the vented side of the cylinder. Maximum pressure on the vented side of the power cylinder is to be 5 to 8 psig
- 5-Year Warranty



Operating Ranges

G-Series has guaranteed torque outputs for spring-return models in excess of 3,000,000 lb-in (339,000 Nm) and double-acting 12,581 – 6,000,000 lb-in (1420 – 678,000 Nm).

Operating pressures are:

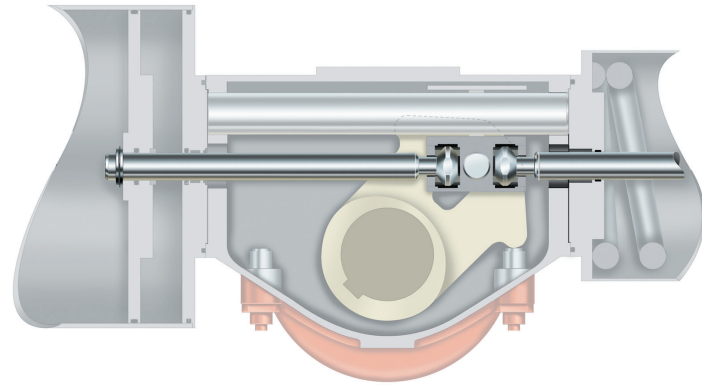
Pneumatic – 40-220 psig (3-14 Bar)

Hydraulic – to 5,000 psig (345 Bar)

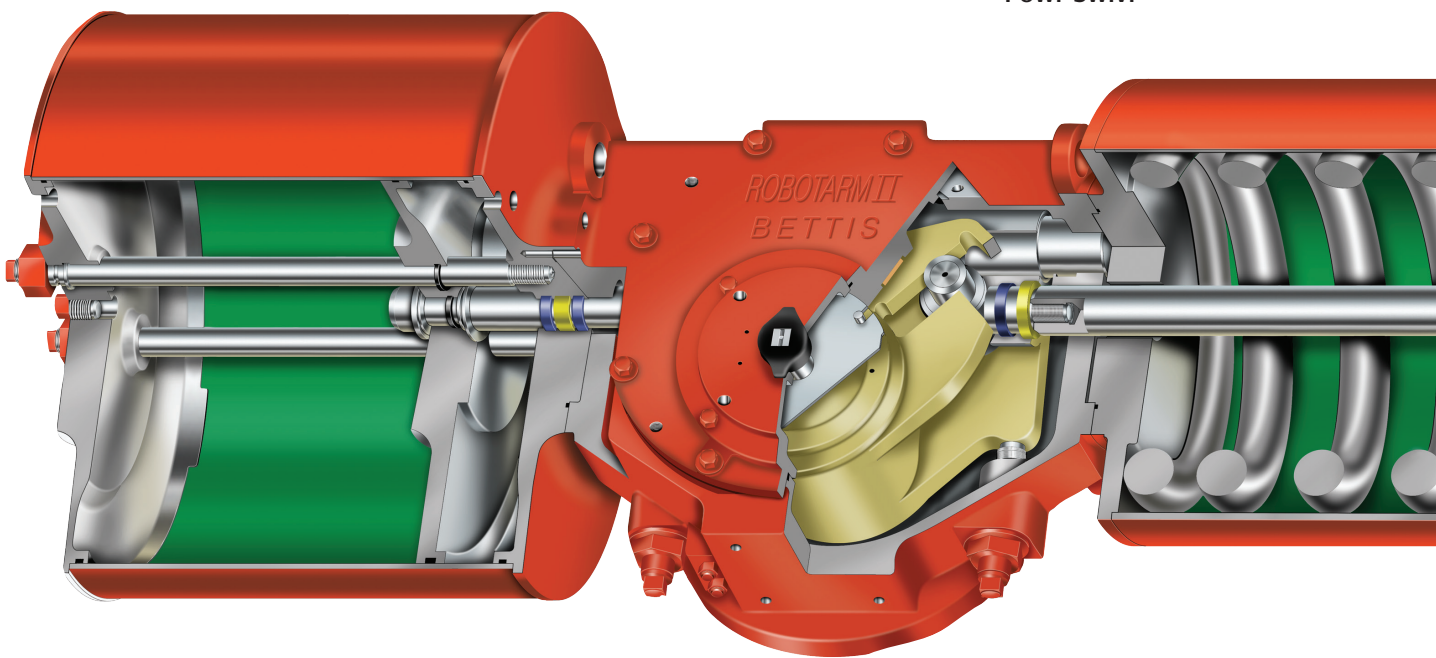
| Standard Trim | High Temp. Trim (-10) | Low Temp. Trim (-11) | |
|------------------|-----------------------|----------------------|-----------------|
| None-PED and PED | | None-PED | PED |
| -20°F to +200°F | 0°F to +350°F | -40°F to +150°F | Consult Factory |
| -29°C to +93°C | -18°C to +177°C | -40°C to +66°C | |

Reduces Wear

The Powr-Swivl™ piston rod and guide block connection compensates for side load deflection and reduces wear. Seal-lubricating bearings protect sliding and rotating components.

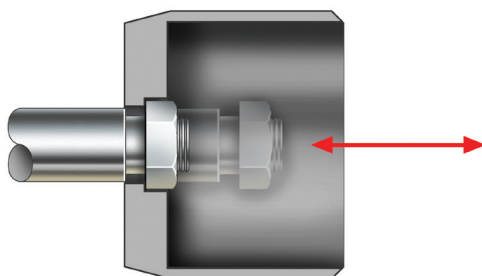


Powr-Swivl™



Promotes Safety

The patented Tension-Lok™ device positively locks the spring module to allow its safe removal and installation, eliminating accidental release of the spring force.



Tension-Lok™

Resists Corrosion

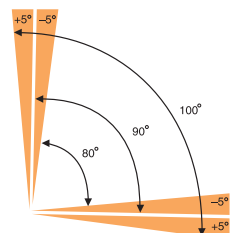
Tie-bars on pneumatic power modules are corrosion resistant, and internal and external surfaces are coated to protect in harsh environments.

Seals Positively

With dual drive module vent checks, breather seals, total O-ring sealing and no gaskets, the G-Series prevents water ingress and seals out the environment.

Bidirectional Travel Stops

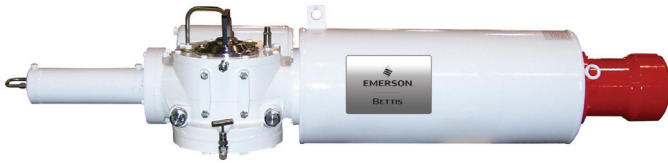
Integral bidirectional travel stops, adjustable from 80° to 100° of total valve travel, assist G-Series in prolonging valve seat integrity.



Other G-Series Actuation Solutions

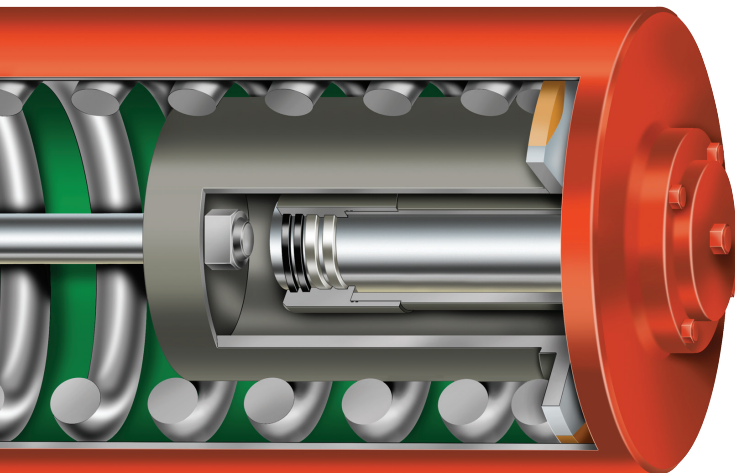
GS-Series

Emerson actuators have long been a preferred brand for use in marine environments. GS-Series actuators are well suited for splash zone, riser and other offshore fail-safe applications. They are available with diver or ROV intervention systems.



NG-Series

NG-Series actuators have been independently tested to include LOCA (Loss of Cooling Accident), meets IEEE 382 standards, seismic and various aging processes required to meet current nuclear qualification criteria.



GH-Series

The GH-Series actuators provide specialized higher maximum operating pressures (MOP) where required. Available in either canted (model GHC) or symmetric (GH) yoke configurations for spring-return, fail-safe projects. An optional SRO spring is available for higher spring start and end torques.

Safety Integrity Level (SIL)

G-Series actuators are well suited for demanding SIL applications. These actuators have a Failure Modes and Effects Diagnostics Analysis (FMEDA) capability with reporting performed through Exida.com™ for SIL suitability. When a Fisher, TÜV-certified FIELDVUE® controller is added to the G-Series, it is capable of partial stroke testing and providing continuous monitoring of supply pressure, valve position and pressure values to verify proper working condition. The G-Series then becomes an integral component in controlling the final control element in SIL 1, 2 or 3 applications.

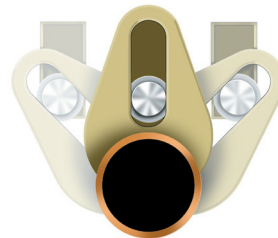
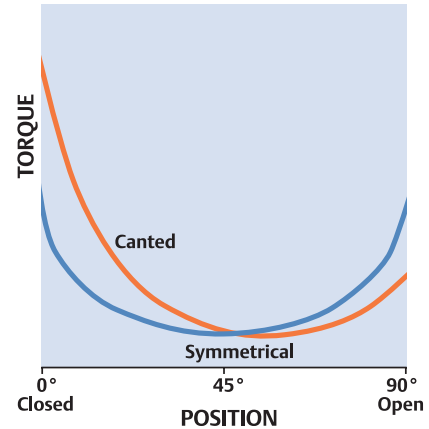
Jackscrew is available for the G1, G2, and G3

Offered in a variety of mechanical and manual overrides, the G-Series with the M11 hydraulic override may also be used with either spring-return pneumatic or hydraulic models. The M3 jackscrew manual override for G1, G2, and G3 models is available with or without handwheel.

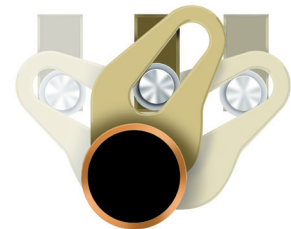
Symmetric or Canted Yokes

G-Series actuators available with either symmetric or canted yokes. Traditional symmetric yokes provide efficient operation at both the break and end positions.

Canted (or inclined) yokes have a torque advantage in applications where higher break torque is needed to unseat the valve, with less critical needs at the run or full open positions.



Symmetric Yoke



Canted Yoke

Other Emerson controls and accessories:

Fisher™

- Digital Valve Controllers
- Positioners
- Regulators

TopWorx™

- Switch Boxes
- Wireless Position Monitoring

ASCO Numatics™

- Solenoid Valves

For more detailed technical information go to our online documentation at www.bettis.com/technical-data

Options

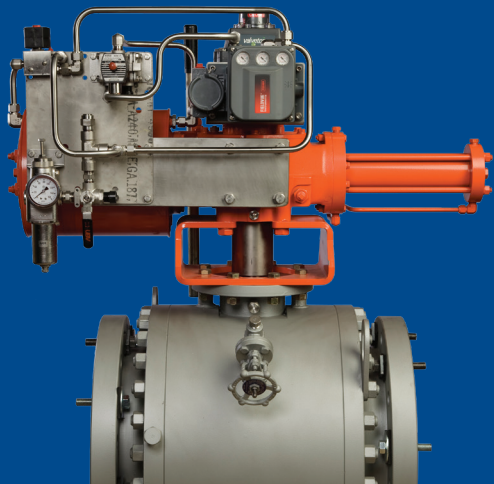
Overrides

Emerson offers a variety of mechanical and manual overrides for G-Series models. The M11 hydraulic override can be used with either spring-return pneumatic or hydraulic models. The M3 jackscrew manual override for G1, G2 and G3 models is available with or without handwheel. The G-Ride (shown) is an economical external non-declutchable mechanical override for G4 and G5 spring-return models available with standard hex nut or handwheel.



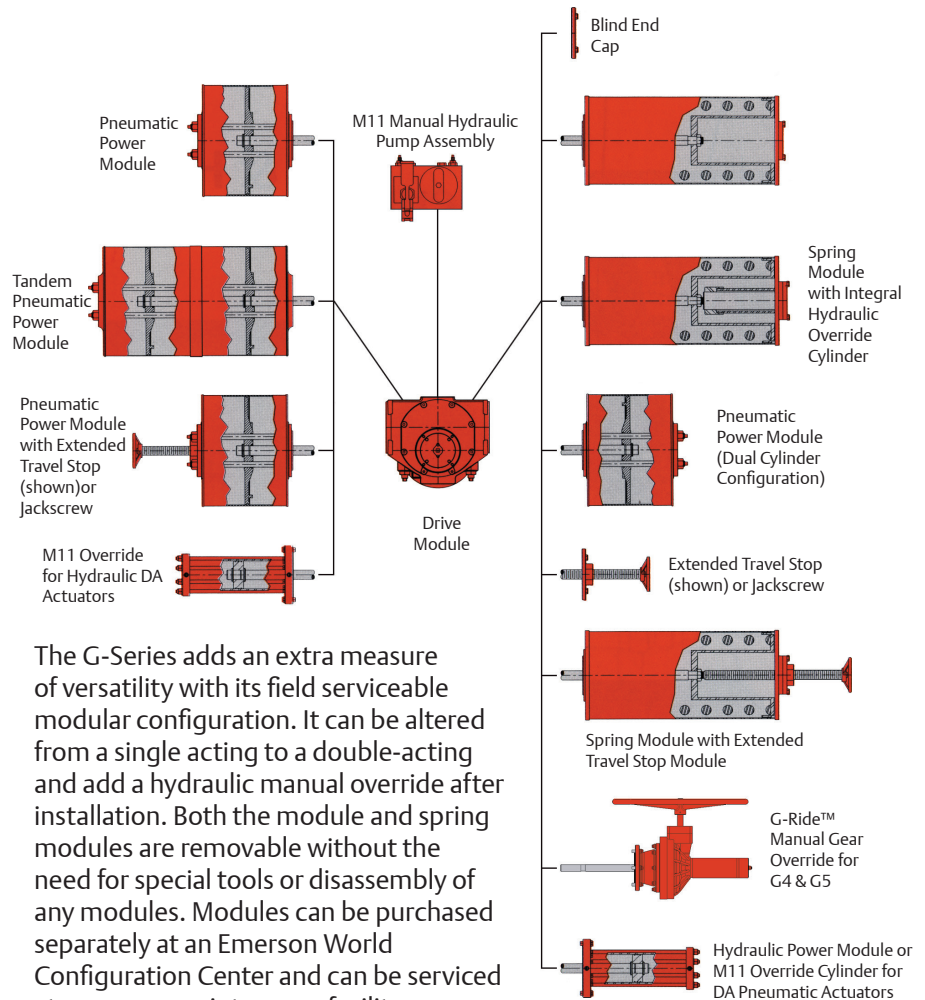
Automated Valve Packages

Emerson offers complete valve operating systems for final valve control. At our World Area Configuration Centers (WACC), we combine the G-Series actuator, controls and a valve in a single system. We can integrate a complete controls offering including world-class PlantWeb® digital plant architecture. We also supply BettisSystems™, pre-engineered and documented controls packages, available at our WACC reducing lead times, simplifying purchasing and installation.



Modular Versatility

- Enables Online Field Maintenance
- Lowers Inventory



The G-Series adds an extra measure of versatility with its field serviceable modular configuration. It can be altered from a single acting to a double-acting and add a hydraulic manual override after installation. Both the module and spring modules are removable without the need for special tools or disassembly of any modules. Modules can be purchased separately at an Emerson World Configuration Center and can be serviced at your own maintenance facility.

Note: The above graphic is for illustration purposes only. Please consult factory for certified dimensional drawings.

Standards and Certifications

G-Series actuators are manufactured to meet the following worldwide quality and safety standards:



PED/97/23/EC –
Pressure
Equipment
Directive

Shell DEP 2016 Compliance

World's very first complete actuator product line that successfully passed stringent "Shell Endurance Test" per Shell DEP 2016 and EN15714-3 Standard. The test was supervised and monitored by Shell and Lloyd agency throughout and the final result was certified by Shell Projects & Technology PACO Principal Technical Expert.

Download [Shell DEP Acceptance of Endurance Testing](#) on Bettis G-Series webpage.

World Area Configuration Centers (WACC) offer sales support, service, inventory and commissioning to our global customers. Choose the WACC or sales office nearest you:

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This product is only intended for use in large-scale fixed installations excluded from the scope of Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2).

For complete list of sales and manufacturing sites, please visit www.emerson.com/actuationtechnologieslocations or contact us at info.actuationtechnologies@emerson.com

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Specification Guide

The following guide develops a comprehensive, performance oriented pneumatic and hydraulic actuator and control specification. Bettis' G-Series actuators meet or exceed all requirements outlined below for Quarterturn(90°) valve operation.

1. The actuator shall be scheduled maintenance free, fully resistant to environmental, power gas, and load conditions.
2. The actuator shall be a true modular design to simplify field service, interchange ability of the power and spring modules, and the addition of manual overrides and accessories.
3. The actuator shall meet all applicable design codes, safety restrictions, and application practices including SI 1029 regulations, IP 66 and IP 67M type testing.
4. The power and spring modules shall be rigidly attached by external bolting to the drive module without requiring special tools, disassembly, or disturbance of seals of any module.
5. The pneumatic power module shall be constructed with dual internal tie bars of high strength alloy steel protected by corrosion and wear resistant coatings. Power modules shall be constructed to allow pressure testing independent of the drive module.
6. The reaction bar shall be corrosion and wear protected by a chemical bath surface conversion process applied in accordance with Bettis' ESC 20 specification, and shall exhibit a minimum surface hardness of 60 Rc.
7. The actuator shall be produced, service rated and auditable to a written Quality Assurance Program complying with ISO 9001, 10CFR50 Appendix B, CSAZ-299, and when specified, DIN 500493.1.b.
8. All actuators and modules shall meet acceptance criteria defined by Bettis' ES-6 test specification latest revision or equivalent prior to shipment.
9. The valve drive interface shall meet the applicable requirements of MSS SP-101 or ISO 5211 Standards.
10. The actuator shall be provided with a full length keyed female drive connection suitable for mounting in multiple orientations, as specified.
11. The actuator shall be service rated based upon load and application parameters, auditable to accelerated wearage test data.
12. All external bolting shall be blind tapped to protect the threads and positively prevent water ingress as defined by the requirements of IP 66 and IP 67M. Sheet or fibrous gaskets shall not be used for pressure or environmental seals.
13. Accessory drive shaft shall be bearing centered, with respect to the mounting pattern and isolated from any axial or radial yoke movements.
14. All shaft driven control and signal devices shall be protected from mechanical damage by a bearing centered shaft drive meeting NAMUR dimensional specifications. Device attachment shall be identical and interchangeable between all models.
15. Spring and drive module interface are to be positively retained under all operating conditions.
16. Safe spring module installation/removal shall be inherent within the spring attachment design and shall not require special tools. The locking mechanism shall be self-engaging and highly visible during assembly, assuring that the lock position is attained. The mechanism shall positively disallow spring module detachment while in a loaded condition.
17. The spring module shall be fully enclosed, o-ring sealed and welded.
18. The spring and spring retainer shall be selfcentered and bearing guided within the spring module.
19. All module interfaces shall include a precision machine pilot to ensure accurate alignment.
20. The spring-return actuator shall utilize an inherently guided tension rod to energize the compression spring eliminating the need for tie bars.
21. Each actuator shall be fitted with two (2) 316 stainless steel, normally closed vent-checks. The single-acting actuator power modules shall incorporate a 316 stainless steel bi-directional breather/vent.

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Sheet No.: SG 1.01

Date: September 2010

G-Series

22. The piston rod guide block connection shall compensate for angular and lateral deflection.
23. The piston rod shall be detachable from the drive module without the need of special tools or module disassembly.
24. Replaceable bearings shall exhibit documented, extended wear capabilities and shall be suitable for dry or lubricated working conditions. Sliding and rotating ferrous metal surfaces shall be protected by suitable bearings to control wear.
25. Metallic coating of pressure containing and load bearing surfaces which can be scratched, cracked, or peeled are prohibited.
26. All contact surfaces of the guide block assembly shall incorporate replaceable bearings and a rigid rotating pin torque transfer mechanism.
27. The yoke pin shall rotate in a self-lubricating bearing to eliminate sliding friction in the yoke slots and shall be retained by stationary nonmetallic thrust bars.
28. The manufacturer shall provide a five-year materials and workmanship warranty.
29. Integral bi-directional travel stops shall allow 80° to 100° total travel adjustment.
30. The construction of the actuator shall be suitable for continuous exposure to ambient temperatures of -20°F to +200°F (-29°C to +93°C). Optional low temperature and high temperature trim are available.
31. Standard valve position stops shall provide 80–100° adjustment and be capable of stalling the actuator at the maximum torque output.

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America's: +1 281 477 4100 Europe: +36 22 53 0950 Asia/Pacific: +65 67 77 8211


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Data sheet

Sheet No.: GCP2.01 Rev. A

Date: February 2014

G-Series

Performance Data – (Pneumatic)

ES8 G-Series

| Actuator Model | MOP | | SHELL TEST | | MSP | |
|----------------|------|-------|------------|-------|------|-------|
| | PSIG | BARG | PSIG | BARG | PSIG | BARG |
| G01x08 | 192 | 13.23 | 275 | 18.95 | 240 | 16.55 |
| G01x09 | 151 | 10.41 | 216 | 14.88 | 189 | 13.03 |
| G01x10 | 114 | 7.86 | 163 | 11.23 | 143 | 9.86 |
| G01x12 | 80 | 5.52 | 115 | 7.92 | 100 | 6.90 |
| G01x14 | 66 | 4.55 | 95 | 6.55 | 83 | 5.72 |
| G2x09 | 187 | 12.89 | 268 | 18.47 | 234 | 16.13 |
| G2x10 | 141 | 9.72 | 202 | 13.92 | 176 | 12.13 |
| G2x12 | 100 | 6.89 | 143 | 9.85 | 125 | 8.62 |
| G2x14 | 81 | 5.58 | 116 | 7.99 | 101 | 6.96 |
| G2x16 | 61 | 4.21 | 88 | 6.06 | 76 | 5.24 |
| G3x10 | 200 | 13.79 | 286 | 19.71 | 250 | 17.24 |
| G3x12 | 142 | 9.79 | 203 | 13.99 | 178 | 12.27 |
| G3x14 | 117 | 8.07 | 168 | 11.58 | 146 | 10.07 |
| G3x16 | 90 | 6.21 | 129 | 8.89 | 112 | 7.72 |
| G3x20 | 56 | 3.86 | 80 | 5.51 | 70 | 4.83 |
| G4x12 | 200 | 13.79 | 286 | 19.71 | 250 | 17.24 |
| G4x14 | 194 | 13.38 | 278 | 19.16 | 243 | 16.75 |
| G4x16 | 147 | 10.14 | 211 | 14.54 | 184 | 12.69 |
| G4x20 | 92 | 6.34 | 132 | 9.10 | 115 | 7.93 |
| G4x24 | 63 | 4.34 | 90 | 6.20 | 79 | 5.45 |
| G4x28 | 45 | 3.10 | 65 | 4.48 | 56 | 3.86 |
| G5x16 | 200 | 13.79 | 286 | 19.71 | 250 | 17.24 |
| G5x20 | 164 | 11.31 | 235 | 16.19 | 205 | 14.13 |
| G5x24 | 112 | 7.72 | 161 | 11.09 | 140 | 9.65 |
| G5x28 | 80 | 5.52 | 115 | 7.92 | 100 | 6.89 |
| G5x32 | 61 | 4.21 | 88 | 6.06 | 76 | 5.24 |
| G5x36 | 48 | 3.31 | 69 | 4.75 | 60 | 4.14 |

- ▲ Maximum volume including cavity required for calculating consumption per stroke.
- * **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.
Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure value set point.
MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.
Maximum System Pressure (MSP) – The maximum allowable system supply pressure to which an actuator may be exposed.
MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.
- For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Sheet No.: GCP2.02 Rev. A

Date: February 2014

G-Series

Performance Data – (Pneumatic)

ES8 GC-Series

| Actuator Model | MOP | | SHELL TEST | | MSP | |
|----------------|------|-------|------------|-------|------|-------|
| | PSIG | BARG | PSIG | BARG | PSIG | BARG |
| G01x08 | 192 | 13.29 | 275 | 19.00 | 240 | 16.61 |
| G01x09 | 151 | 10.45 | 216 | 14.94 | 189 | 13.06 |
| G01x10 | 114 | 7.89 | 163 | 11.28 | 143 | 9.86 |
| G01x12 | 80 | 5.54 | 114 | 7.92 | 100 | 6.92 |
| G01x14 | 66 | 4.57 | 94 | 6.53 | 83 | 5.71 |
| G2x09 | 187 | 12.94 | 267 | 18.51 | 234 | 16.18 |
| G2x10 | 141 | 9.76 | 202 | 13.95 | 176 | 12.20 |
| G2x12 | 100 | 6.92 | 143 | 9.90 | 125 | 8.65 |
| G2x14 | 81 | 5.61 | 116 | 8.02 | 101 | 7.01 |
| G2x16 | 61 | 4.22 | 87 | 6.04 | 76 | 5.28 |
| G3x10 | 200 | 13.84 | 286 | 19.79 | 250 | 17.30 |
| G3x12 | 142 | 9.83 | 203 | 14.05 | 178 | 12.28 |
| G3x14 | 117 | 8.10 | 167 | 11.58 | 146 | 10.12 |
| G3x16 | 90 | 6.23 | 129 | 8.91 | 113 | 7.79 |
| G3x20 | 56 | 3.88 | 80 | 5.54 | 70 | 4.84 |
| G4x12 | 200 | 13.84 | 286 | 19.79 | 250 | 17.30 |
| G4x14 | 194 | 13.43 | 277 | 19.20 | 243 | 16.78 |
| G4x16 | 147 | 10.17 | 210 | 14.55 | 184 | 12.72 |
| G4x20 | 92 | 6.37 | 132 | 9.10 | 115 | 7.96 |
| G4x24 | 63 | 4.36 | 90 | 6.23 | 79 | 5.45 |
| G4x28 | 45 | 3.11 | 64 | 4.45 | 56 | 3.89 |
| G5x16 | 200 | 13.84 | 286 | 19.79 | 250 | 17.30 |
| G5x20 | 164 | 11.35 | 235 | 16.23 | 205 | 14.19 |
| G5x24 | 112 | 7.75 | 160 | 11.08 | 140 | 9.69 |
| G5x28 | 80 | 5.54 | 114 | 7.92 | 100 | 6.92 |
| G5x32 | 61 | 4.22 | 87 | 6.04 | 76 | 5.28 |
| G5x36 | 48 | 3.32 | 69 | 4.75 | 60 | 4.15 |

- ▲ Maximum volume including cavity required for calculating consumption per stroke.
- * **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.
Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure value set point.
MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.
Maximum System Pressure (MSP) – The maximum allowable system supply pressure to which an actuator may be exposed.
MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.
- For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Data sheet

Sheet No.: GCP2.01 Rev. A

Date: February 2014

G-Series

Performance Data – (Pneumatic)

ES8 G-Series

| Actuator Model | MOP | | SHELL TEST | | MSP | |
|----------------|------|-------|------------|-------|------|-------|
| | PSIG | BARG | PSIG | BARG | PSIG | BARG |
| G01x08 | 192 | 13.23 | 275 | 18.95 | 240 | 16.55 |
| G01x09 | 151 | 10.41 | 216 | 14.88 | 189 | 13.03 |
| G01x10 | 114 | 7.86 | 163 | 11.23 | 143 | 9.86 |
| G01x12 | 80 | 5.52 | 115 | 7.92 | 100 | 6.90 |
| G01x14 | 66 | 4.55 | 95 | 6.55 | 83 | 5.72 |
| G2x09 | 187 | 12.89 | 268 | 18.47 | 234 | 16.13 |
| G2x10 | 141 | 9.72 | 202 | 13.92 | 176 | 12.13 |
| G2x12 | 100 | 6.89 | 143 | 9.85 | 125 | 8.62 |
| G2x14 | 81 | 5.58 | 116 | 7.99 | 101 | 6.96 |
| G2x16 | 61 | 4.21 | 88 | 6.06 | 76 | 5.24 |
| G3x10 | 200 | 13.79 | 286 | 19.71 | 250 | 17.24 |
| G3x12 | 142 | 9.79 | 203 | 13.99 | 178 | 12.27 |
| G3x14 | 117 | 8.07 | 168 | 11.58 | 146 | 10.07 |
| G3x16 | 90 | 6.21 | 129 | 8.89 | 112 | 7.72 |
| G3x20 | 56 | 3.86 | 80 | 5.51 | 70 | 4.83 |
| G4x12 | 200 | 13.79 | 286 | 19.71 | 250 | 17.24 |
| G4x14 | 194 | 13.38 | 278 | 19.16 | 243 | 16.75 |
| G4x16 | 147 | 10.14 | 211 | 14.54 | 184 | 12.69 |
| G4x20 | 92 | 6.34 | 132 | 9.10 | 115 | 7.93 |
| G4x24 | 63 | 4.34 | 90 | 6.20 | 79 | 5.45 |
| G4x28 | 45 | 3.10 | 65 | 4.48 | 56 | 3.86 |
| G5x16 | 200 | 13.79 | 286 | 19.71 | 250 | 17.24 |
| G5x20 | 164 | 11.31 | 235 | 16.19 | 205 | 14.13 |
| G5x24 | 112 | 7.72 | 161 | 11.09 | 140 | 9.65 |
| G5x28 | 80 | 5.52 | 115 | 7.92 | 100 | 6.89 |
| G5x32 | 61 | 4.21 | 88 | 6.06 | 76 | 5.24 |
| G5x36 | 48 | 3.31 | 69 | 4.75 | 60 | 4.14 |

ES8 GC-Series

| Actuator Model | MOP | | SHELL TEST | | MSP | |
|----------------|------|-------|------------|-------|------|-------|
| | PSIG | BARG | PSIG | BARG | PSIG | BARG |
| GC01x08 | 192 | 13.29 | 275 | 19.00 | 240 | 16.61 |
| GC01x09 | 151 | 10.45 | 216 | 14.94 | 189 | 13.06 |
| GC01x10 | 114 | 7.89 | 163 | 11.28 | 143 | 9.86 |
| GC01x12 | 80 | 5.54 | 114 | 7.92 | 100 | 6.92 |
| GC01x14 | 66 | 4.57 | 94 | 6.53 | 83 | 5.71 |
| GC2x09 | 187 | 12.94 | 267 | 18.51 | 234 | 16.18 |
| GC2x10 | 141 | 9.76 | 202 | 13.95 | 176 | 12.20 |
| GC2x12 | 100 | 6.92 | 143 | 9.90 | 125 | 8.65 |
| GC2x14 | 81 | 5.61 | 116 | 8.02 | 101 | 7.01 |
| GC2x16 | 61 | 4.22 | 87 | 6.04 | 76 | 5.28 |
| GC3x10 | 200 | 13.84 | 286 | 19.79 | 250 | 17.30 |
| GC3x12 | 142 | 9.83 | 203 | 14.05 | 178 | 12.28 |
| GC3x14 | 117 | 8.10 | 167 | 11.58 | 146 | 10.12 |
| GC3x16 | 90 | 6.23 | 129 | 8.91 | 113 | 7.79 |
| GC3x20 | 56 | 3.88 | 80 | 5.54 | 70 | 4.84 |
| GC4x12 | 200 | 13.84 | 286 | 19.79 | 250 | 17.30 |
| GC4x14 | 194 | 13.43 | 277 | 19.20 | 243 | 16.78 |
| GC4x16 | 147 | 10.17 | 210 | 14.55 | 184 | 12.72 |
| GC4x20 | 92 | 6.37 | 132 | 9.10 | 115 | 7.96 |
| GC4x24 | 63 | 4.36 | 90 | 6.23 | 79 | 5.45 |
| GC4x28 | 45 | 3.11 | 64 | 4.45 | 56 | 3.89 |
| GC5x16 | 200 | 13.84 | 286 | 19.79 | 250 | 17.30 |
| GC5x20 | 164 | 11.35 | 235 | 16.23 | 205 | 14.19 |
| GC5x24 | 112 | 7.75 | 160 | 11.08 | 140 | 9.69 |
| GC5x28 | 80 | 5.54 | 114 | 7.92 | 100 | 6.92 |
| GC5x32 | 61 | 4.22 | 87 | 6.04 | 76 | 5.28 |
| GC5x36 | 48 | 3.32 | 69 | 4.75 | 60 | 4.15 |

- ▲ Maximum volume including cavity required for calculating consumption per stroke.
- * **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.
- Maximum Relief Valve Set Pressure (MRP)** – The maximum recommended relief pressure value set point.
MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.
- Maximum System Pressure (MSP)** – The maximum allowable system supply pressure to which an actuator may be exposed.
MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.
- For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Data sheet

Sheet No.: GPM 2.01 Rev. E
Date: August 2017

G-Series

Performance Data – (Pneumatic)

Double-Acting Actuators G-Series

| Actuator Model | Volume (cu cm) ▲ | | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |
|----------------|------------------|----------|---|-------------------------------------|
| | Inboard | Outboard | | |
| G01108 | 5981.0 | 5620.7 | 13.2 | 66.3 |
| G01109 | 7620.0 | 7128.4 | 10.4 | 68.5 |
| G01110 | 10176.3 | 9504.5 | 7.9 | 73.1 |
| G01112 | 14715.5 | 13683.1 | 5.5 | 78.1 |
| G01114 | 17960.2 | 16632.8 | 4.6 | 82.6 |
| G2109 | 7620.0 | 7128.4 | 13.0 | 84.4 |
| G2110 | 10176.4 | 9504.5 | 9.7 | 86.4 |
| G2112 | 14715.6 | 13683.0 | 7.0 | 92.3 |
| G2114 | 17960.0 | 16633.0 | 5.6 | 96.8 |
| G2116 | 23646.5 | 21893.0 | 4.2 | 113.9 |
| G3110 | 12306.7 | 12569.0 | 13.8 | 116.6 |
| G3112 | 17911.0 | 18091.3 | 9.8 | 123.8 |
| G3114 | 21909.5 | 22024.0 | 8.0 | 128.4 |
| G3116 | 28448.0 | 27809.0 | 6.2 | 142.4 |
| G3120 | 48178.0 | 43835.4 | 4.0 | 171.5 |
| G4112 | 22188.0 | 20992.0 | 13.8 | 191.0 |
| G4114 | 26973.0 | 25580.0 | 13.4 | 196.4 |
| G4116 | 35593.0 | 33872.0 | 10.0 | 208.7 |
| G4120 | 47277.0 | 53700.0 | 6.3 | 250.4 |
| G4124 | 84328.0 | 77691.0 | 4.3 | 287.1 |
| G4128 | 115611.0 | 110547.0 | 3.0 | 361.5 |
| G5116 | 45261.0 | 42656.0 | 13.8 | 389.6 |
| G5120 | 71825.0 | 68121.0 | 11.3 | 392.8 |
| G5124 | 102108.0 | 100404.0 | 7.7 | 442.7 |
| G5128 | 142059.0 | 141896.0 | 5.5 | 521.6 |
| G5132 | 192040.0 | 171573.0 | 4.2 | 699.0 |
| G5136 | 239054.0 | 214802.0 | 3.3 | 819.6 |
| G7120 | 77675.0 | 77134.0 | 13.8 | 753.4 |
| G7124 | 119904.0 | 111858.0 | 12.3 | 757.5 |
| G7128 | 177341.0 | 176980.0 | 8.7 | 852.8 |
| G7132 | 231484.0 | 220259.0 | 6.6 | 984.3 |
| G7136 | 280252.0 | 243364.0 | 5.2 | 1120.4 |

- ▲ Maximum volume including cavity required for calculating consumption per stroke.
- * **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.
- Maximum Relief Valve Set Pressure (MRP)** – The maximum recommended relief pressure value set point.
MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.
- Maximum System Pressure (MSP)** – The maximum allowable system supply pressure to which an actuator may be exposed.
MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.
- For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Data sheet

Sheet No.: GPM 2.02 Rev. E
Date: August 2017

G-Series

Performance Data – (Pneumatic)

Double-Acting Actuators G-Series (cont.)

| Actuator Model | Volume (cu cm) ▲ | | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |
|----------------|------------------|-----------|---|-------------------------------------|
| | Inboard | Outboard | | |
| • G71228 | 354321.0 | 354321.0 | 4.3 | 1201.1 |
| G8124 | 133620.0 | 131785.0 | 13.8 | 1072.3 |
| G8128 | 215293.0 | 195350.0 | 12.0 | 1133.9 |
| G8132 | 281710.0 | 258768.0 | 9.0 | 1227.0 |
| G8136 | 356992.0 | 329380.0 | 7.0 | 1483.7 |
| G8140 | 441123.0 | 409562.0 | 5.8 | 1603.0 |
| • G81232 | 540478.0 | 540478.0 | 4.5 | 1717.8 |
| • G81236 | 686372.0 | 686372.0 | 3.6 | 2231.2 |
| G10128 | 302538.0 | 278170.0 | 13.8 | 1661.7 |
| G10132 | 348586.0 | 320367.0 | 13.8 | 1798.7 |
| G10136 | 442090.0 | 417723.0 | 11.0 | 2032.8 |
| G10140 | 546591.0 | 519126.0 | 8.8 | 2156.1 |
| • G101232 | 668953.0 | 668953.0 | 7.0 | 2399.1 |
| • G101236 | 859813.0 | 859813.0 | 5.5 | 2867.2 |
| • G101240 | 1065700.0 | 1065700.0 | 4.4 | 3113.9 |
| G13140 | 725029.0 | 719785.0 | 13.8 | 3504.0 |
| G13144 | 884213.0 | 873004.0 | 11.4 | 3603.8 |
| G13148 | 1058555.0 | 1040824.0 | 9.7 | 3998.4 |
| G13152 | 1248055.0 | 1223262.0 | 8.3 | 4061.9 |
| • G131240 | 1444815.0 | 1444815.0 | 7.0 | 4819.4 |
| • G131244 | 1757218.0 | 1757218.0 | 5.7 | 5019.0 |
| • G131248 | 2099380.0 | 2099380.0 | 4.8 | 5808.3 |
| • G131252 | 2471317.0 | 2471317.0 | 4.0 | 5935.3 |

▲ Maximum volume including cavity required for calculating consumption per stroke.

* **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.

Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure value set point.

MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.

Maximum System Pressure (MSP) – The maximum allowable system supply pressure to which an actuator may be exposed.

MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.

- For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Data sheet

Sheet No.: GPM 2.03 Rev. E

Date: August 2017

G-Series

Performance Data – (Pneumatic)

Spring-Return Actuators G-Series

| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |
|----------------|----------------------------|---|-------------------------------------|
| G01108-SR4 | 5981 | 13.2 | 129.9 |
| SR3 | 5981 | 13.2 | 134.0 |
| SR2 | 5981 | 13.2 | 136.2 |
| SR1 | 5981 | 13.2 | 137.1 |
| G01109-SR4 | 7620 | 13.8 | 132.1 |
| SR3 | 7620 | 13.8 | 136.2 |
| SR2 | 7620 | 13.8 | 138.5 |
| SR1 | 7620 | 13.8 | 139.4 |
| G01110-SR4 | 10176 | 11.5 | 136.7 |
| SR3 | 10176 | 11.5 | 140.8 |
| SR2 | 10176 | 11.5 | 143.0 |
| SR1 | 10176 | 11.5 | 143.9 |
| G01112-SR4 | 14716 | 8.0 | 141.5 |
| SR3 | 14716 | 8.0 | 145.6 |
| SR2 | 14716 | 8.0 | 147.9 |
| SR1 | 14716 | 8.0 | 148.8 |
| G01114-SR4 | 17960 | 6.3 | 146.2 |
| SR3 | 17960 | 6.3 | 150.3 |
| SR2 | 17960 | 6.3 | 152.5 |
| SR1 | 17960 | 6.3 | 153.5 |
| G2109-SR6 | 7620 | 12.9 | 163.0 |
| SR5 | 7620 | 12.9 | 172.0 |
| SR4 | 7620 | 12.9 | 181.1 |
| SR3 | 7620 | 12.9 | 187.9 |
| SR2 | 7620 | 12.9 | 191.1 |
| SR1 | 7620 | 12.9 | 194.7 |
| G2110-SR6 | 10176 | 9.7 | 165.1 |
| SR5 | 10176 | 9.7 | 174.2 |
| SR4 | 10176 | 9.7 | 183.3 |
| SR3 | 10176 | 9.7 | 190.1 |
| SR2 | 10176 | 9.7 | 193.2 |
| SR1 | 10176 | 9.7 | 196.9 |
| G2112-SR6 | 14716 | 6.9 | 171.0 |
| SR5 | 14716 | 6.9 | 180.1 |
| SR4 | 14716 | 6.9 | 189.1 |
| SR3 | 14716 | 6.9 | 196.0 |
| SR2 | 14716 | 6.9 | 199.1 |
| SR1 | 14716 | 6.9 | 202.8 |
| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |

| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |
|----------------|----------------------------|---|-------------------------------------|
| G2114-SR6 | 17960 | 5.6 | 175.5 |
| SR5 | 17960 | 5.6 | 184.6 |
| SR4 | 17960 | 5.6 | 193.7 |
| SR3 | 17960 | 5.6 | 200.5 |
| SR2 | 17960 | 5.6 | 203.7 |
| SR1 | 17960 | 5.6 | 207.3 |
| G2116-SR6 | 23647 | 4.2 | 192.3 |
| SR5 | 23647 | 4.2 | 201.4 |
| SR4 | 23647 | 4.2 | 210.5 |
| SR3 | 23647 | 4.2 | 217.3 |
| SR2 | 23647 | 4.2 | 220.4 |
| SR1 | 23647 | 4.2 | 224.1 |
| G3110-SR4 | 12307 | 13.8 | 251.3 |
| SR3 | 12307 | 13.8 | 257.6 |
| SR2 | 12307 | 13.8 | 264.9 |
| SR1 | 12307 | 13.8 | 266.7 |
| G3112-SR4 | 17911 | 9.8 | 258.5 |
| SR3 | 17911 | 9.8 | 264.9 |
| SR2 | 17911 | 9.8 | 272.2 |
| SR1 | 17911 | 9.8 | 274.0 |
| G3114-SR4 | 21910 | 8.1 | 263.1 |
| SR3 | 21910 | 8.1 | 269.4 |
| SR2 | 21910 | 8.1 | 276.7 |
| SR1 | 21910 | 8.1 | 278.5 |
| G3116-SR4 | 28448 | 6.2 | 277.1 |
| SR3 | 28448 | 6.2 | 283.5 |
| SR2 | 28448 | 6.2 | 290.8 |
| SR1 | 28448 | 6.2 | 292.6 |
| G3120-SR4 | 48178 | 3.9 | 306.2 |
| SR3 | 48178 | 3.9 | 312.5 |
| SR2 | 48178 | 3.9 | 319.8 |
| SR1 | 48178 | 3.9 | 321.6 |
| G4112-SR4 | 20992 | 13.8 | 400.5 |
| SR3 | 20992 | 13.8 | 427.7 |
| SR2 | 20992 | 13.8 | 435.0 |
| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |

▲ Maximum volume including cavity required for calculating consumption per stroke.

* **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.

Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure value set point.

MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.

Maximum System Pressure (MSP) – The maximum allowable system supply pressure to which an actuator may be exposed.

MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.

- For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Data sheet

Sheet No.: GPM 2.04 Rev. E

Date: August 2017

G-Series

Performance Data – (Pneumatic)

Spring-Return Actuators G-Series (cont.)

| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |
|----------------|----------------------------|---|-------------------------------------|
| G4114-SR4 | 25580 | 13.4 | 406.0 |
| SR3 | 25580 | 13.4 | 432.7 |
| SR2 | 25580 | 13.4 | 440.0 |
| SR1 | 25580 | 13.4 | 444.5 |
| G4116-SR4 | 33872 | 10.1 | 418.2 |
| SR3 | 33872 | 10.1 | 445.0 |
| SR2 | 33872 | 10.1 | 452.7 |
| SR1 | 33872 | 10.1 | 456.8 |
| G4120-SR4 | 53700 | 6.3 | 459.9 |
| SR3 | 53700 | 6.3 | 487.2 |
| SR2 | 53700 | 6.3 | 494.4 |
| SR1 | 53700 | 6.3 | 498.5 |
| G4124-SR4 | 77691 | 4.3 | 496.7 |
| SR3 | 77691 | 4.3 | 523.4 |
| SR2 | 77691 | 4.3 | 530.7 |
| SR1 | 77691 | 4.3 | 534.8 |
| G4128-SR3 | 110547 | 3.1 | 598.3 |
| SR2 | 110547 | 3.1 | 605.5 |
| SR1 | 110547 | 3.1 | 609.6 |
| G5116-SR4 | 42656 | 13.8 | 770.2 |
| SR3 | 42656 | 13.8 | 799.2 |
| SR2 | 42656 | 13.8 | 824.6 |
| G5120-SR4 | 68121 | 11.3 | 773.4 |
| SR3 | 68121 | 11.3 | 802.4 |
| SR2 | 68121 | 11.3 | 827.8 |
| SR1 | 68121 | 11.3 | 825.1 |
| G5124-SR4 | 100404 | 7.7 | 823.3 |
| SR3 | 100404 | 7.7 | 852.3 |
| SR2 | 100404 | 7.7 | 877.7 |
| SR1 | 100404 | 7.7 | 875.0 |
| G5128-SR4 | 141896 | 5.5 | 902.2 |
| SR3 | 141896 | 5.5 | 931.2 |
| SR2 | 141896 | 5.5 | 956.6 |
| SR1 | 141896 | 5.5 | 953.9 |
| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |

| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |
|----------------|----------------------------|---|-------------------------------------|
| G5132-SR4 | 171573 | 4.2 | 1079.6 |
| SR3 | 171573 | 4.2 | 1108.1 |
| SR2 | 171573 | 4.2 | 1134.0 |
| SR1 | 171573 | 4.2 | 1131.3 |
| G5136-SR3 | 214785 | 3.3 | 1229.2 |
| SR2 | 214785 | 3.3 | 1254.6 |
| SR1 | 214785 | 3.3 | 1251.9 |
| G7120-SR4 | 77134 | 13.8 | 1446.5 |
| SR3 | 77134 | 13.8 | 1408.0 |
| G7124-SR4 | 111858 | 12.3 | 1450.6 |
| SR3 | 111858 | 12.3 | 1412.0 |
| SR2 | 111858 | 12.3 | 1570.8 |
| SR1 | 111858 | 12.3 | 1532.2 |
| G7128-SR4 | 176980 | 8.7 | 1545.8 |
| SR3 | 176980 | 8.7 | 1507.3 |
| SR2 | 176980 | 8.7 | 1666.0 |
| SR1 | 176980 | 8.7 | 1627.5 |
| G7132-SR4 | 220259 | 6.6 | 1677.4 |
| SR3 | 220259 | 6.6 | 1638.8 |
| SR2 | 220259 | 6.6 | 1797.6 |
| SR1 | 220259 | 6.6 | 1759.0 |
| G7136-SR4 | 243364 | 5.2 | 1813.5 |
| SR3 | 243364 | 5.2 | 1774.9 |
| SR2 | 243364 | 5.2 | 1933.7 |
| SR1 | 243364 | 5.2 | 1895.1 |
| G7128-SR3 | 353961 | 4.3 | 1857.5 |
| SR2 | 353961 | 4.3 | 2016.2 |
| SR1 | 353961 | 4.3 | 1977.7 |
| G8124-SR3 | 132784 | 13.8 | 2367.8 |
| SR2 | 132784 | 13.8 | 2440.8 |
| SR1 | 132784 | 13.8 | 2571.9 |
| G8128-SR3 | 195350 | 11.9 | 2429.4 |
| SR2 | 195350 | 11.9 | 2502.0 |
| SR1 | 195350 | 11.9 | 2633.6 |
| G8132-SR3 | 258768 | 9.0 | 2522.4 |
| SR2 | 258768 | 9.0 | 2595.5 |
| SR1 | 258768 | 9.0 | 2726.5 |
| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |

▲ Maximum volume including cavity required for calculating consumption per stroke.

* **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.

Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure value set point.

MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.

Maximum System Pressure (MSP) – The maximum allowable system supply pressure to which an actuator may be exposed.

MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.

- For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Data sheet

Sheet No.: GPM 2.05 Rev. E

Date: August 2017

G-Series

Performance Data – (Pneumatic)

Spring-Return Actuators G-Series (cont.)

| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |
|----------------|----------------------------|---|-------------------------------------|
| G8136-SR3 | 329380 | 7.1 | 2779.2 |
| SR2 | 329380 | 7.1 | 2852.2 |
| SR1 | 329380 | 7.1 | 2983.3 |
| G8140-SR3 | 409562 | 5.8 | 2898.5 |
| SR2 | 409562 | 5.8 | 2971.5 |
| SR1 | 409562 | 5.8 | 3102.6 |
| G81T32-SR3 | 517536 | 4.5 | 3042.2 |
| SR2 | 517536 | 4.5 | 3115.3 |
| SR1 | 517536 | 4.5 | 3246.4 |
| G81T36-SR3 | 658760 | 3.6 | 3555.7 |
| SR2 | 658760 | 3.6 | 3628.7 |
| SR1 | 658760 | 3.6 | 3759.8 |
| G10128-SR4 | 278170 | 13.8 | 3269.5 |
| SR3 | 278170 | 13.8 | 3432.8 |
| SR2 | 278170 | 13.8 | 3609.7 |
| G10132-SR4 | 320367 | 13.8 | 3406.5 |
| SR3 | 320367 | 13.8 | 3569.8 |
| SR2 | 320367 | 13.8 | 3746.7 |
| SR1 | 320367 | 13.8 | 3955.3 |
| G10136-SR4 | 417723 | 10.9 | 3640.5 |
| SR3 | 417723 | 10.9 | 3795.7 |
| SR2 | 417723 | 10.9 | 3980.7 |
| SR1 | 417723 | 10.9 | 4230.2 |
| G10140-SR4 | 519126 | 8.8 | 3763.9 |
| SR3 | 519126 | 8.8 | 3927.2 |
| SR2 | 519126 | 8.8 | 4104.1 |
| SR1 | 519126 | 8.8 | 4312.8 |
| G101T32-SR4 | 640734 | 6.9 | 3971.2 |
| SR3 | 640734 | 6.9 | 4134.5 |
| SR2 | 640734 | 6.9 | 4311.4 |
| SR1 | 640734 | 6.9 | 4520.1 |
| G101T36-SR4 | 835445 | 5.5 | 4357.7 |
| SR3 | 835445 | 5.5 | 4521.0 |
| SR2 | 835445 | 5.5 | 4697.9 |
| SR1 | 835445 | 5.5 | 4906.5 |
| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |

| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |
|----------------|----------------------------|---|-------------------------------------|
| G101T40-SR4 | 1038252 | 4.4 | 4582.6 |
| SR3 | 1038252 | 4.4 | 4745.9 |
| SR2 | 1038252 | 4.4 | 4922.8 |
| SR1 | 1038252 | 4.4 | 5131.5 |
| G13140-SR4 | 725029 | 13.8 | 6735.9 |
| SR3 | 725029 | 13.8 | 7069.2 |
| SR2 | 725029 | 13.8 | 7620.4 |
| SR1 | 725029 | 13.8 | 7953.8 |
| G13144-SR4 | 884213 | 11.4 | 6835.6 |
| SR3 | 884213 | 11.4 | 7169.0 |
| SR2 | 884213 | 11.4 | 7720.2 |
| SR1 | 884213 | 11.4 | 8053.5 |
| G13148-SR4 | 1058555 | 9.7 | 7230.3 |
| SR3 | 1058555 | 9.7 | 7563.7 |
| SR2 | 1058555 | 9.7 | 8114.8 |
| SR1 | 1058555 | 9.7 | 8448.2 |
| G13152-SR4 | 1248055 | 8.3 | 7293.8 |
| SR3 | 1248055 | 8.3 | 7627.2 |
| SR2 | 1248055 | 8.3 | 8178.3 |
| SR1 | 1248055 | 8.3 | 8511.7 |
| G131T40-SR4 | 1488650 | 6.9 | 7779.1 |
| SR3 | 1488650 | 6.9 | 8112.5 |
| SR2 | 1488650 | 6.9 | 8663.6 |
| SR1 | 1488650 | 6.9 | 8997.0 |
| G131T44-SR4 | 1816850 | 5.7 | 7985.5 |
| SR3 | 1816850 | 5.7 | 8318.9 |
| SR2 | 1816850 | 5.7 | 8870.0 |
| SR1 | 1816850 | 5.7 | 9203.4 |
| G131T48-SR4 | 2176432 | 4.8 | 8727.1 |
| SR3 | 2176432 | 4.8 | 9060.5 |
| SR2 | 2176432 | 4.8 | 9611.6 |
| SR1 | 2176432 | 4.8 | 9945.0 |
| G131T52-SR4 | 2567394 | 4.1 | 8727.1 |
| SR3 | 2567394 | 4.1 | 9060.5 |
| SR2 | 2567394 | 4.1 | 9611.6 |
| SR1 | 2567394 | 4.1 | 9945.0 |
| Actuator Model | Volume Per Stroke (cu cm)▲ | Maximum Operating Pressure (MOP)* (Bar) | Approximate Weight of Actuator (kg) |

▲ Maximum volume including cavity required for calculating consumption per stroke.

* **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.

Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure value set point.

MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.

Maximum System Pressure (MSP) – The maximum allowable system supply pressure to which an actuator may be exposed.

MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.

- For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Data sheet

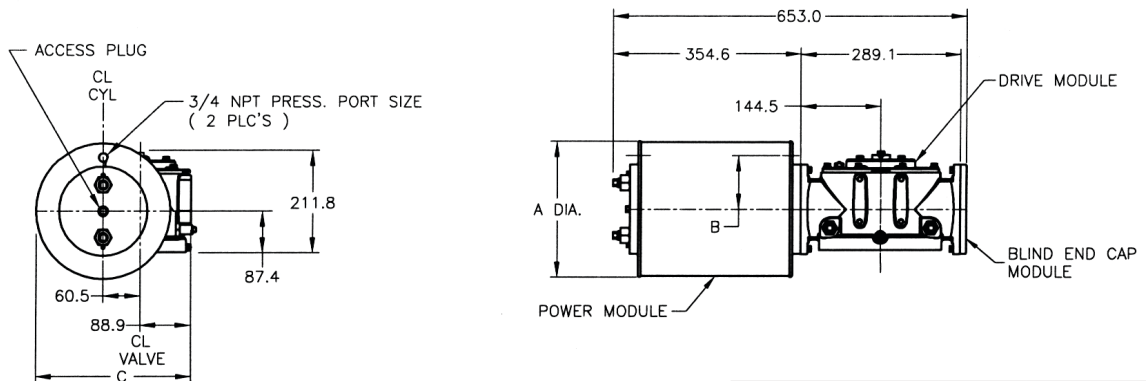
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Date: March 2017

G/GC-Series

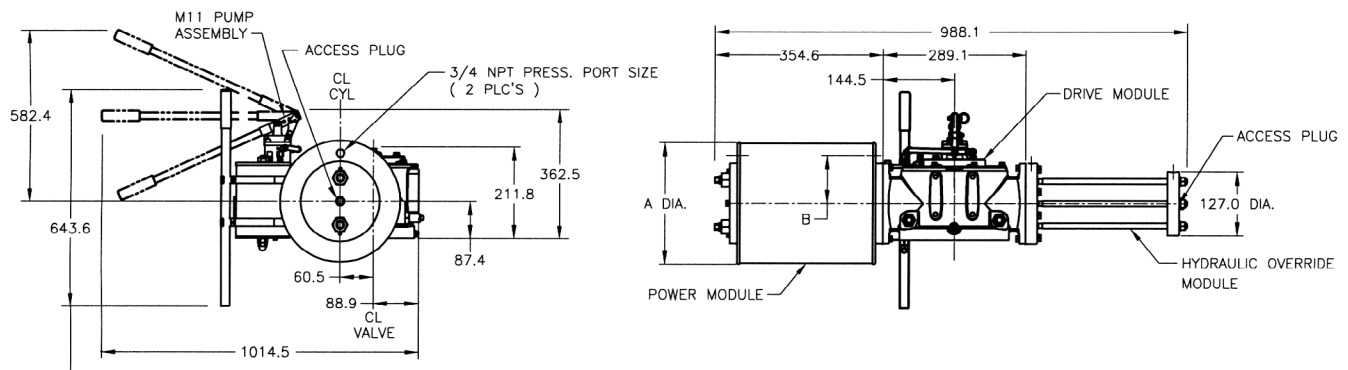
Dimensions – (Pneumatic) mm. G/GC-Series

**Double-Acting Actuators
G011XX/GC011XX (CW Model Shown)**



| Actuator Model | A | B | C |
|----------------|-------|-------|-------|
| G01108/GC01108 | 222.3 | 81.0 | 260.4 |
| G01109/GC01109 | 251.0 | 96.0 | 274.8 |
| G01110/GC01110 | 279.4 | 111.3 | 289.1 |
| G01112/GC01112 | 330.2 | 127.0 | 314.5 |
| G01114/GC01114 | 362.0 | 139.7 | 330.2 |

G010XX-M11/GC010XX-M11 (CW Model Shown)



| Actuator Model | A | B |
|------------------------|-------|-------|
| G01108-M11/GC01108-M11 | 222.3 | 81.0 |
| G01109-M11/GC01109-M11 | 251.0 | 96.0 |
| G01110-M11/GC01110-M11 | 279.4 | 111.3 |
| G01112-M11/GC01112-M11 | 330.2 | 127.0 |
| G01114-M11/GC01114-M11 | 362.0 | 139.7 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Data sheet

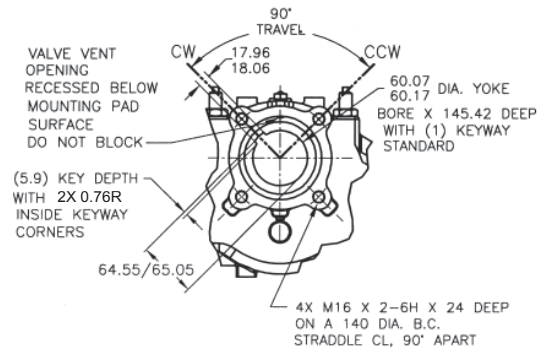
Sheet No.: GPM 3.02 Rev. C

Date: March 2017

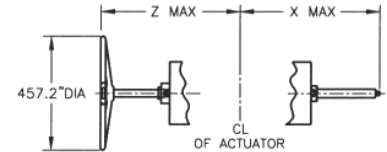
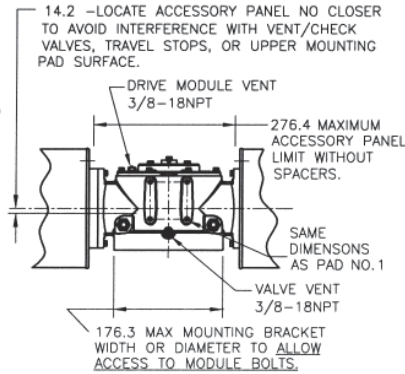
G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

**Double-Acting Actuators
Mounting Pad Detail**



**Adjustable End Stops
& Jackscrews**



ACCESSORY PAD NO. 2 DETAIL

| | Power Module | Blind End Cap Module | Spring Module |
|--------------------------------------|--------------|----------------------|---------------|
| X (-ETS) Extended Travel Stop | 693.9 | 402.1 | 1210.3 |
| X (-33) End Stop | 518.4 | 226.6 | 1023.9 |
| Z (M3/M3HW) Jackscrew | 750.3 | 442.7 | 1184.4 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Data sheet

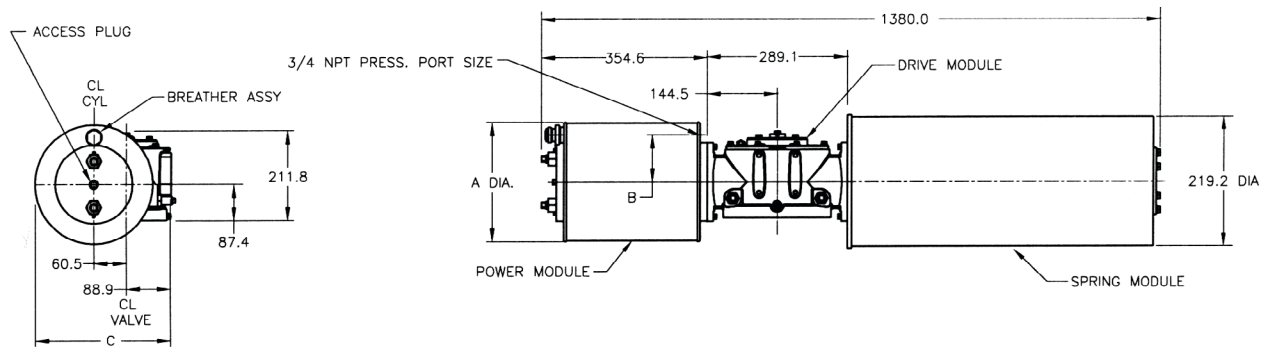
Sheet No.: GPM 3.03 Rev. D

Date: March 2017

G/GC-Series

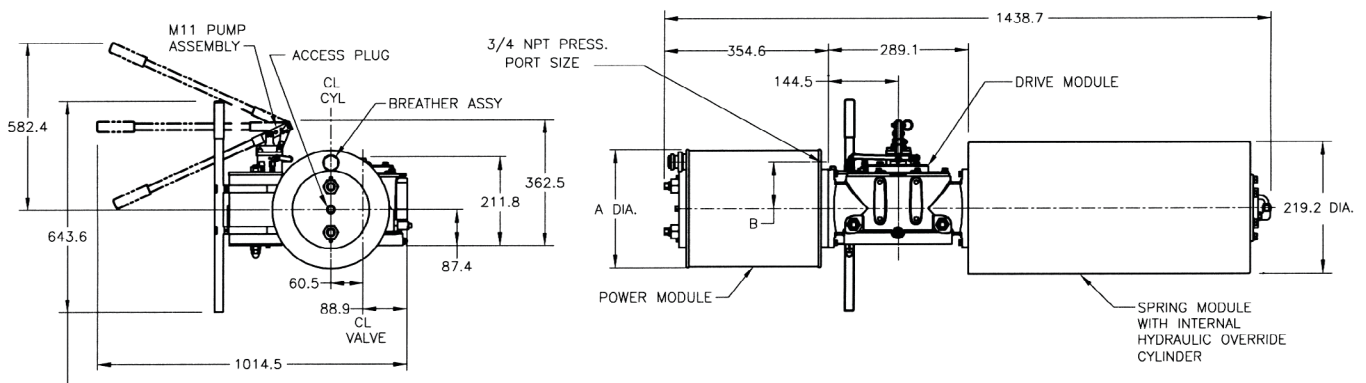
Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators
G011XX-SR/GC011XX-SR (CW Model Shown)



| Actuator Model | A | B | C |
|----------------------|-------|-------|-------|
| G01108-SR/GC01108-SR | 222.3 | 81.0 | 260.4 |
| G01109-SR/GC01109-SR | 251.0 | 96.0 | 274.8 |
| G01110-SR/GC01110-SR | 279.4 | 111.3 | 289.1 |
| G01112-SR/GC01112-SR | 330.2 | 127.0 | 314.5 |
| G01114-SR/GC01114-SR | 362.0 | 139.7 | 330.2 |

G011XX-SR-M11/GC011XX-SR-M11 (CW Model Shown)



| Actuator Model | A | B |
|------------------------------|-------|-------|
| G01108-SR-M11/GC01108-SR-M11 | 222.3 | 81.0 |
| G01109-SR-M11/GC01109-SR-M11 | 251.0 | 96.0 |
| G01110-SR-M11/GC01110-SR-M11 | 279.4 | 111.3 |
| G01112-SR-M11/GC01112-SR-M11 | 330.2 | 127.0 |
| G01114-SR-M11/GC01114-SR-M11 | 362.0 | 139.7 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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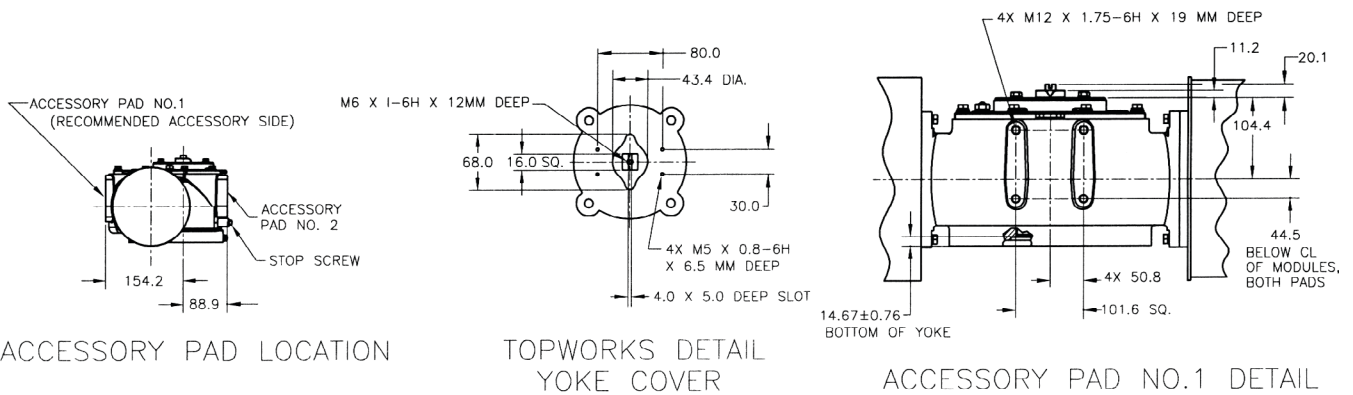
Sheet No.: GPM 3.04 Rev. D

Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators Accessory Details



Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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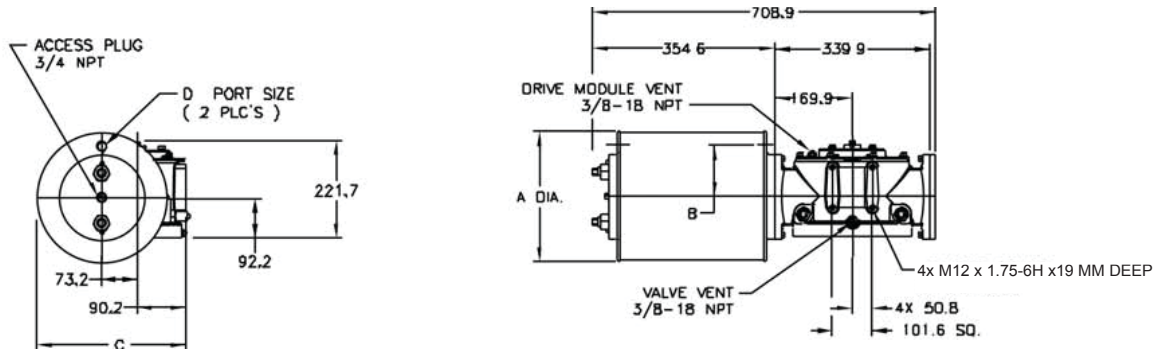
Sheet No.: GPM 3.05 Rev. D

Date: March 2017

G/GC-Series

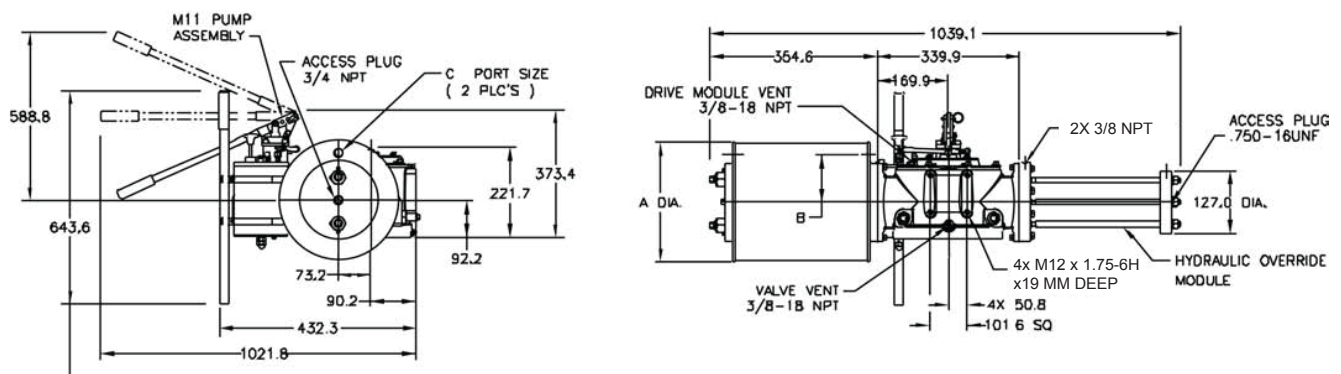
Dimensions – (Pneumatic) mm. G/GC-Series

Double-Acting Actuators
G21XX/GC21XX (CW Model Shown)



| Actuator Model | A | B | C | D |
|----------------|-------|-------|-------|---------|
| G2109/GC2109 | 251.0 | 85.9 | 289.1 | 3/4 NPT |
| G2110/GC2110 | 279.4 | 111.3 | 303.0 | 3/4 NPT |
| G2112/GC2112 | 330.2 | 127.0 | 328.4 | 3/4 NPT |
| G2114/GC2114 | 362.0 | 139.7 | 344.4 | 3/4 NPT |
| G2116/GC2116 | 412.8 | 158.8 | 369.8 | 3/4 NPT |

G21XX-M11/GC21XX-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|----------------------|-------|-------|---------|
| G2109-M11/GC2109-M11 | 251.0 | 85.9 | 3/4 NPT |
| G2110-M11/GC2110-M11 | 254.0 | 111.3 | 3/4 NPT |
| G2112-M11/GC2112-M11 | 330.2 | 127.0 | 3/4 NPT |
| G2114-M11/GC2114-M11 | 362.0 | 139.7 | 3/4 NPT |
| G2116-M11/GC2116-M11 | 412.8 | 158.8 | 3/4 NPT |

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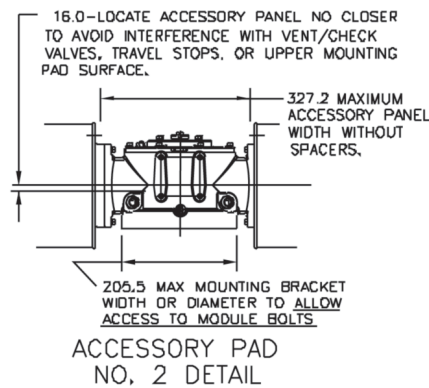
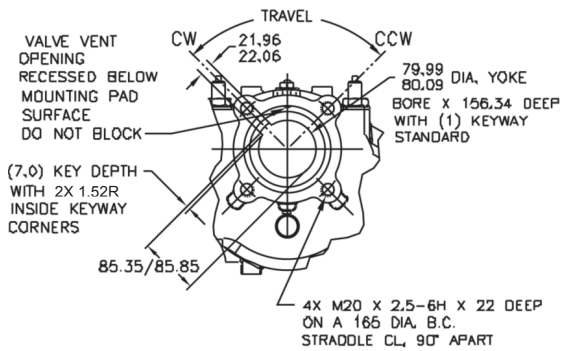
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Date: March 2017

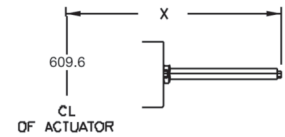
G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Double-Acting Actuators Valve/Accessory Mounting Details



Adjustable End Stops



| | X (-ETS) Extended Travel Stop | X End Stop | Z (M3/M3HW) Jackscrew |
|----------------------|-------------------------------|------------|-----------------------|
| Power Module | 719.3 | 543.8 | 890.8 |
| Blind End Cap Module | 427.5 | 252.0 | 572.8 |
| Spring Module | 1224.8 | 1049.3 | 1278.9 |

Note: Not Certified dimensional drawings. Such drawings available on request.
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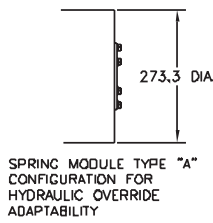
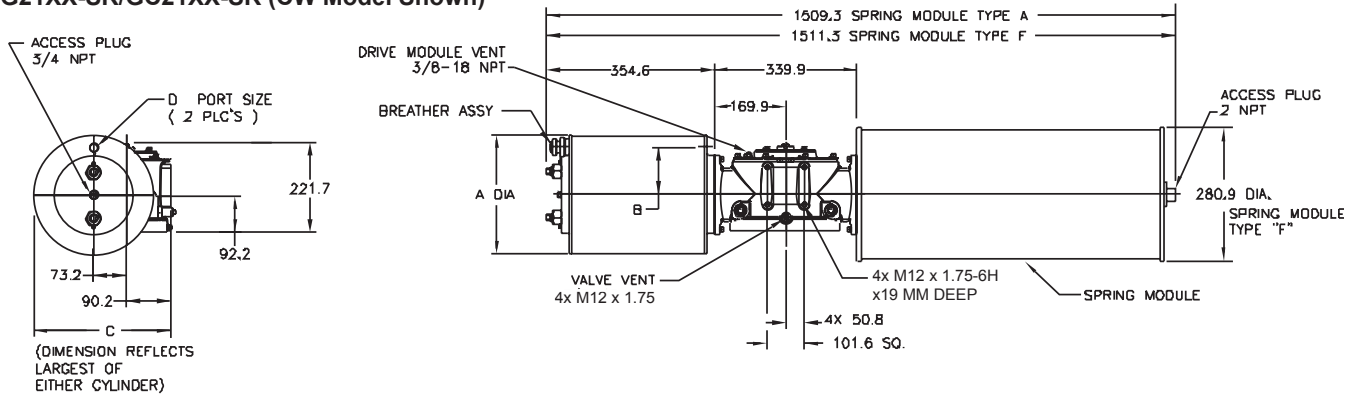
Sheet No.: GPM 3.07 Rev. D

Date: March 2017

G/GC-Series

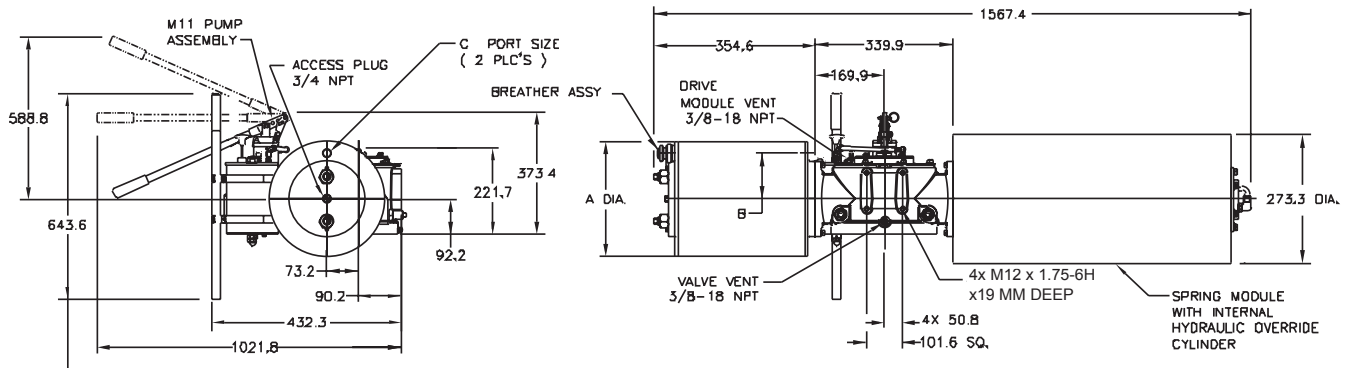
Dimensions – (Pneumatic) mm. G/GC-Series

**Spring-Return Actuators
G21XX-SR/GC21XX-SR (CW Model Shown)**



| Actuator Model | A | B | C | D |
|---------------------------|-------|-------|-------|---------|
| G2109-SR/GC2109-SR | 251.0 | 85.9 | 304.0 | 3/4 NPT |
| G2110-SR/GC2110-SR | 279.4 | 111.3 | 304.0 | 3/4 NPT |
| G2112-SR/GC2112-SR | 330.2 | 127.0 | 328.4 | 3/4 NPT |
| G2114-SR/GC2114-SR | 362.0 | 139.7 | 344.4 | 3/4 NPT |
| G2116-SR/GC2116-SR | 412.8 | 158.8 | 369.8 | 3/4 NPT |

G21XX-SR-M11/GC21XX-SR-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|-----------------------------------|-------|-------|---------|
| G2109-SR-M11/GC2109-SR-M11 | 251.0 | 85.9 | 3/4 NPT |
| G2110-SR-M11/GC2110-SR-M11 | 254.0 | 111.3 | 3/4 NPT |
| G2112-SR-M11/GC2112-SR-M11 | 330.2 | 127.0 | 3/4 NPT |
| G2114-SR-M11/GC2114-SR-M11 | 362.0 | 139.7 | 3/4 NPT |
| G2116-SR-M11/GC2116-SR-M11 | 412.8 | 158.8 | 3/4 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Data sheet

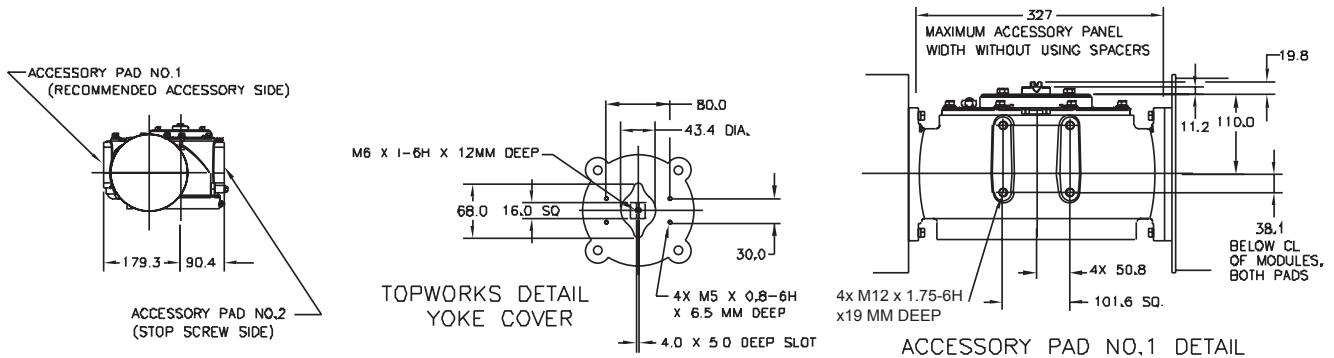
Sheet No.: GPM 3.08 Rev. D

Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators Accessory Details



Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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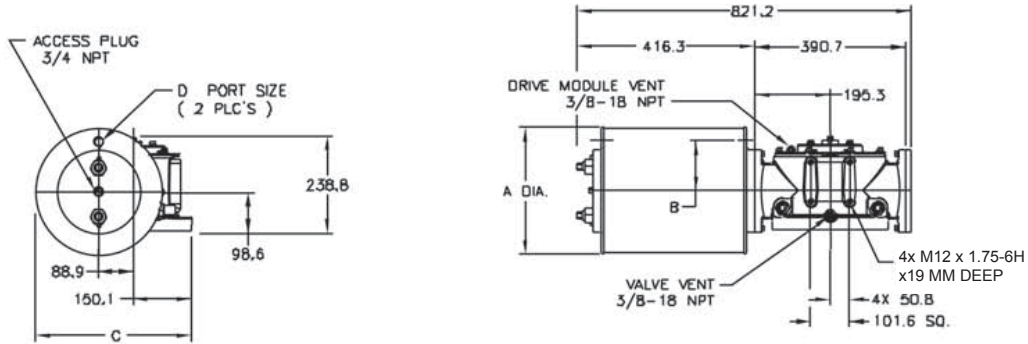
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

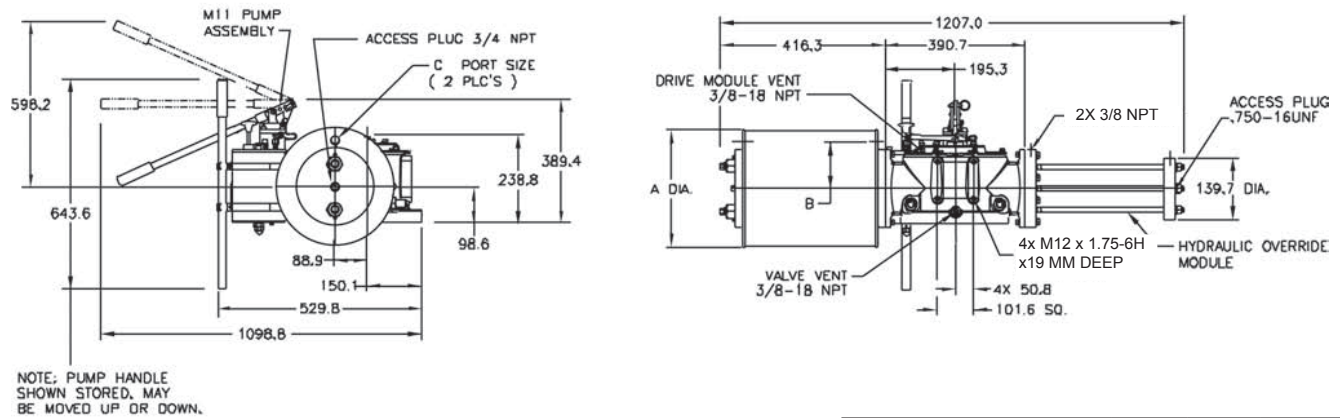
Double-Acting Actuators

G31XX/GC31XX (CW Model Shown)



| Actuator Model | A | B | C | D |
|----------------|-------|-------|-------|---------|
| G3110/GC3110 | 279.4 | 111.3 | 378.7 | 3/4 NPT |
| G3112/GC3112 | 330.2 | 131.8 | 404.1 | 3/4 NPT |
| G3114/GC3114 | 362.0 | 144.3 | 419.9 | 3/4 NPT |
| G3116/GC3116 | 412.8 | 158.8 | 445.3 | 3/4 NPT |
| G3120/GC3120 | 514.4 | 203.2 | 496.1 | 3/4 NPT |

G31XX-M11/GC31XX-M11 (CW Model Shown)



| Actuator Model | A | B | C |
|----------------------|-------|-------|---------|
| G3110-M11/GC3110-M11 | 279.4 | 111.3 | 3/4 NPT |
| G3112-M11/GC3112-M11 | 330.2 | 131.8 | 3/4 NPT |
| G3114-M11/GC3114-M11 | 362.0 | 144.3 | 3/4 NPT |
| G3116-M11/GC3116-M11 | 412.8 | 158.8 | 3/4 NPT |
| G3120-M11/GC3120-M11 | 514.4 | 203.2 | 3/4 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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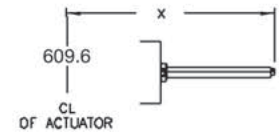
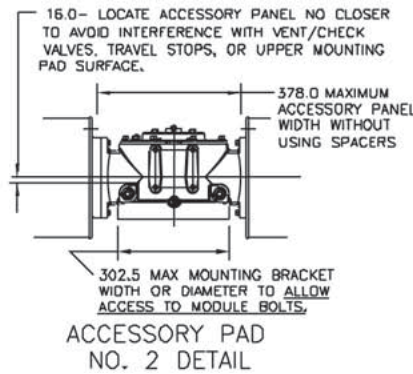
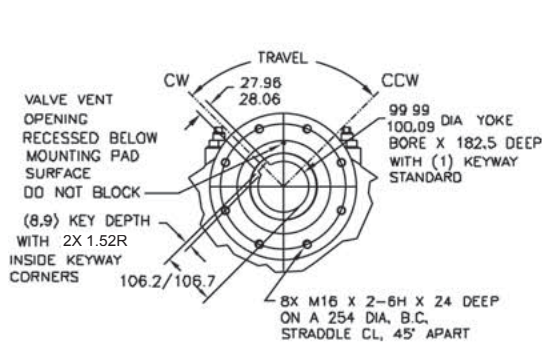
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Double-Acting Actuators
Valve/Accessory Mounting Details

Adjustable End Stops



| | X (-ETS) Extended Travel Stop | X End Stop | Z (M3/M3HW) Jackscrew |
|----------------------|-------------------------------|------------|-----------------------|
| Power Module | 840.5 | 623.1 | 938.3 |
| Blind End Cap Module | 497.1 | 281.9 | 580.6 |
| Spring Module | 1353.8 | 1136.4 | 1397.0 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
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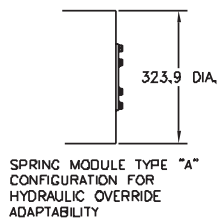
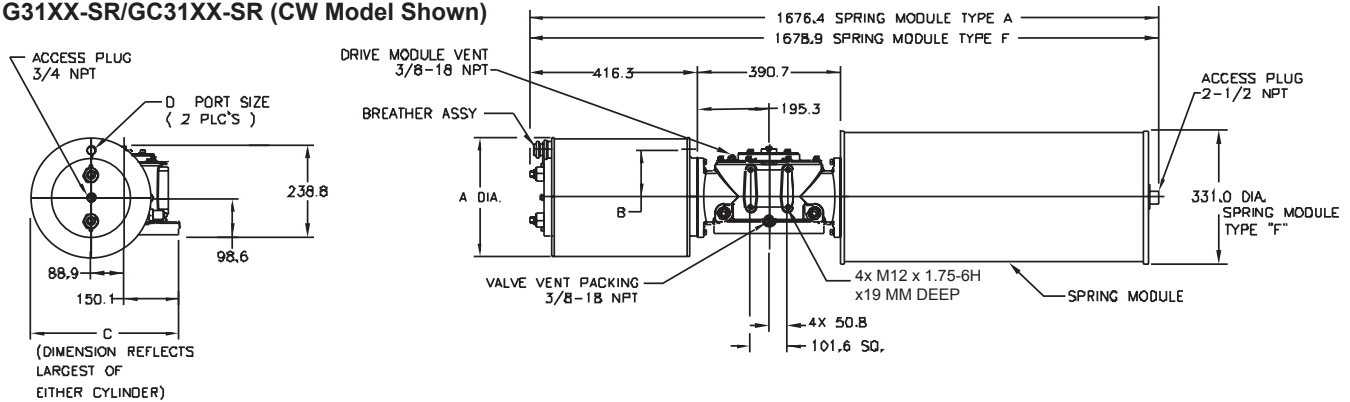
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Date: March 2017

G/GC-Series

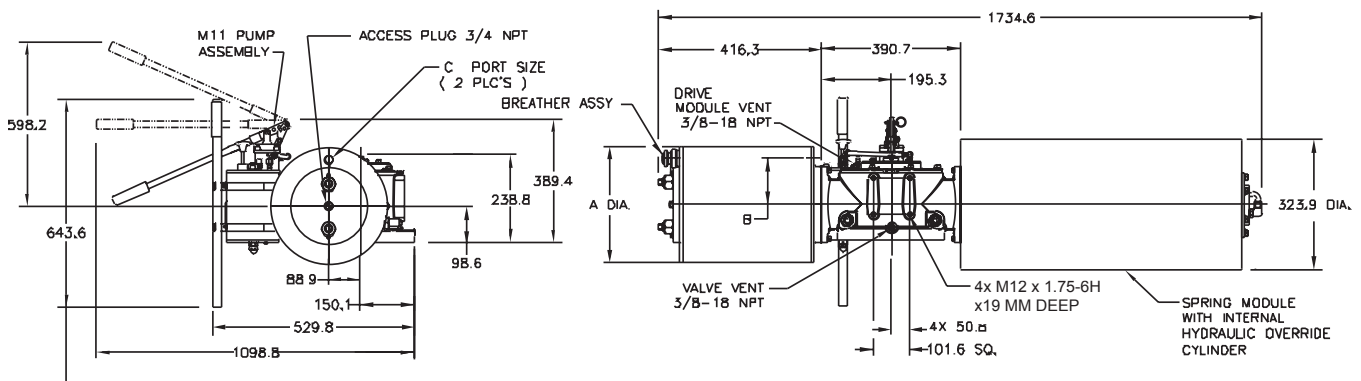
Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators G31XX-SR/GC31XX-SR (CW Model Shown)



| Actuator Model | A | B | C | D |
|--------------------|-------|-------|-------|---------|
| G3110-SR/GC3110-SR | 279.4 | 111.3 | 399.5 | 3/4 NPT |
| G3112-SR/GC3112-SR | 330.2 | 131.8 | 404.1 | 3/4 NPT |
| G3114-SR/GC3114-SR | 362.0 | 144.3 | 419.9 | 3/4 NPT |
| G3116-SR/GC3116-SR | 412.8 | 158.8 | 445.3 | 3/4 NPT |
| G3120-SR/GC3120-SR | 514.4 | 203.2 | 496.1 | 3/4 NPT |

G31XX-SR-M11/GC31XX-SR-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|----------------------------|-------|-------|---------|
| G3110-SR-M11/GC3110-SR-M11 | 279.4 | 111.3 | 3/4 NPT |
| G3112-SR-M11/GC3112-SR-M11 | 330.2 | 131.8 | 3/4 NPT |
| G3114-SR-M11/GC3114-SR-M11 | 362.0 | 144.3 | 3/4 NPT |
| G3116-SR-M11/GC3116-SR-M11 | 412.8 | 158.8 | 3/4 NPT |
| G3120-SR-M11/GC3120-SR-M11 | 514.4 | 203.2 | 3/4 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request.
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All dimensions are expressed in millimeters.

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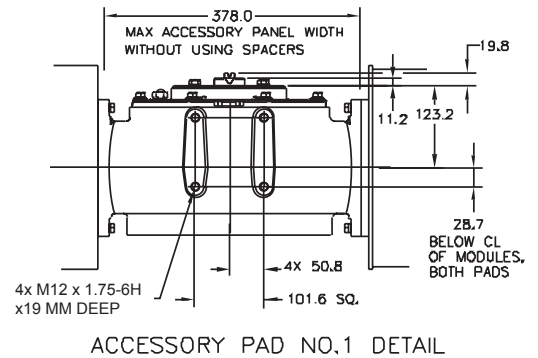
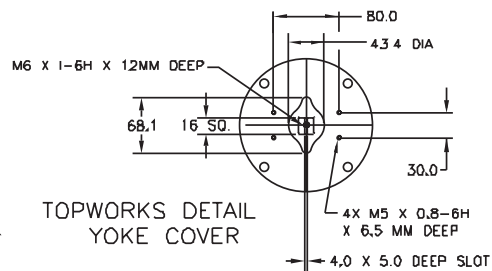
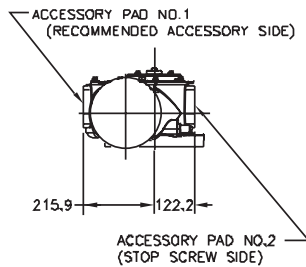
Sheet No.: GPM 3.12 Rev. D

Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators
Accessory Details



Note: Not Certified dimensional drawings. Such drawings available on request.
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All dimensions are expressed in millimeters.

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Data sheet

Sheet No.: GPM 3.13 Rev. D

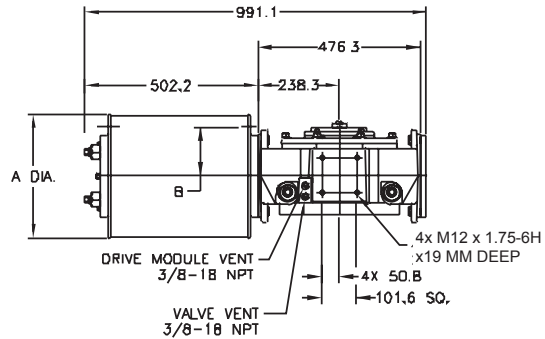
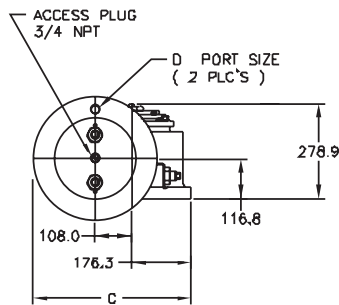
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

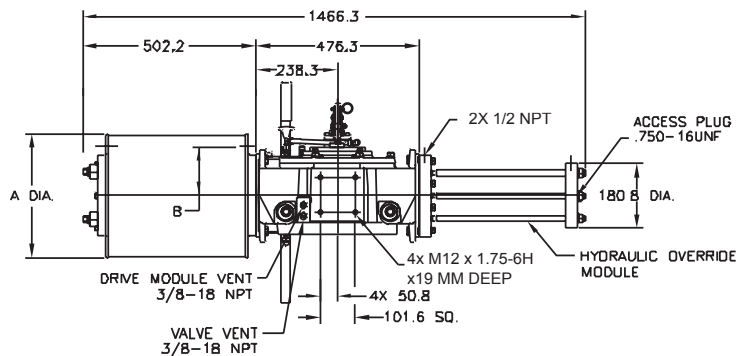
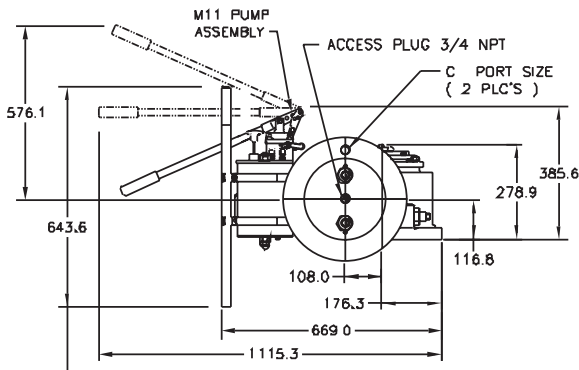
Double-Acting Actuators

G41XX/GC41XX (CW Model Shown)



| Actuator Model | A | B | C | D |
|----------------|-------|-------|-------|---------|
| G4112/GC4112 | 330.2 | 138.2 | 449.3 | 3/4 NPT |
| G4114/GC4114 | 362.0 | 143.0 | 465.3 | 3/4 NPT |
| G4116/GC4116 | 412.8 | 158.8 | 490.7 | 3/4 NPT |
| G4120/GC4120 | 514.4 | 206.5 | 541.5 | 3/4 NPT |
| G4124/GC4124 | 616.0 | 244.6 | 592.3 | 3/4 NPT |
| G4128/GC4128 | 736.6 | 292.1 | 652.5 | 1.0 NPT |

G41XX-M11/GC41XX-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED. MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|----------------------|-------|-------|---------|
| G4112-M11/GC4112-M11 | 330.2 | 138.2 | 3/4 NPT |
| G4114-M11/GC4114-M11 | 362.0 | 143.0 | 3/4 NPT |
| G4116-M11/GC4116-M11 | 412.8 | 158.8 | 3/4 NPT |
| G4120-M11/GC4120-M11 | 514.4 | 206.5 | 3/4 NPT |
| G4124-M11/GC4124-M11 | 616.0 | 244.6 | 3/4 NPT |
| G4128-M11/GC4128-M11 | 736.6 | 292.1 | 1.0 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request. Contact factory with correct model designation and serial number. All dimensions are expressed in millimeters.

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Data sheet

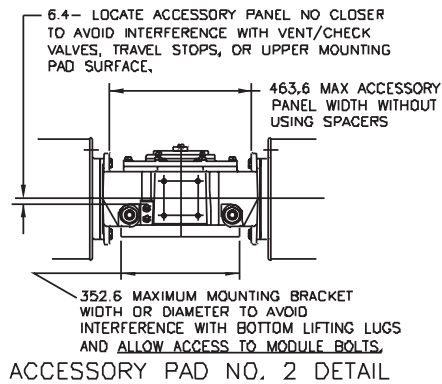
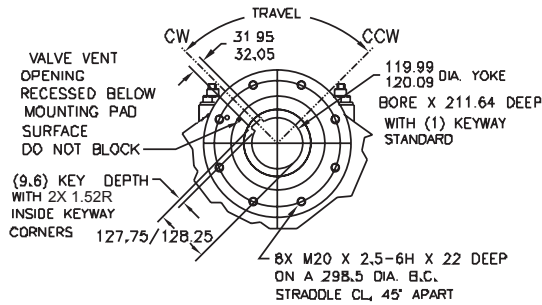
Sheet No.: GPM 3.14 Rev. C

Date: March 2017

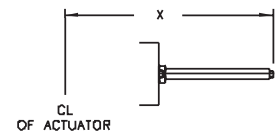
G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

**Double-Acting Actuators
Valve/Accessory Mounting Details**



Adjustable End Stops



| | X Extended Travel Stop | X End Stop |
|----------------------|------------------------------|---------------|
| Power Module | 1009.4 | 790.4 |
| Blind End Cap Module | 592.3 | 373.4 |
| Spring Module | 1539.5 | 1263.7 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Data sheet

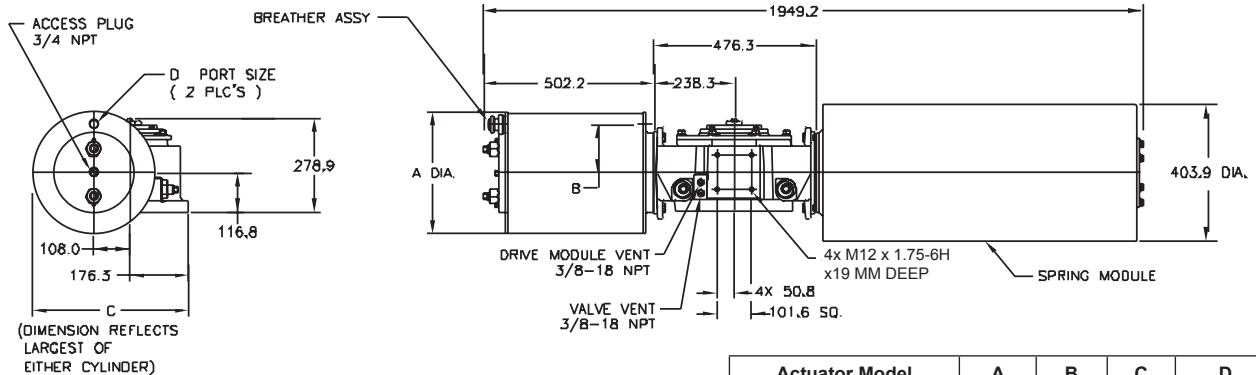
Sheet No.: GPM 3.15 Rev. D

Date: March 2017

G/GC-Series

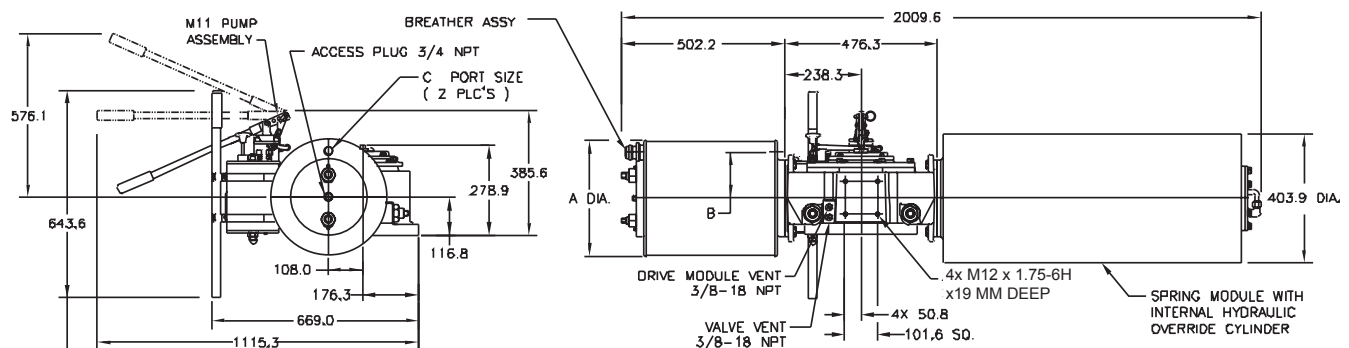
Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators G41XX-SR/GC41XX-SR (CW Model Shown)



| Actuator Model | A | B | C | D |
|--------------------|-------|-------|-------|---------|
| G4112-SR/GC4112-SR | 330.2 | 138.2 | 486.2 | 3/4 NPT |
| G4114-SR/GC4114-SR | 362.0 | 143.0 | 486.2 | 3/4 NPT |
| G4116-SR/GC4116-SR | 412.8 | 158.8 | 490.7 | 3/4 NPT |
| G4120-SR/GC4120-SR | 514.4 | 206.5 | 541.5 | 3/4 NPT |
| G4124-SR/GC4124-SR | 616.0 | 244.6 | 592.3 | 3/4 NPT |
| G4128-SR/GC4128-SR | 736.6 | 292.1 | 652.5 | 1.0 NPT |

G41XX-SR-M11/GC41XX-SR-M11 (CW Model Shown)



NOTE PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|----------------------------|-------|-------|---------|
| G4112-SR-M11/GC4112-SR-M11 | 330.2 | 138.2 | 3/4 NPT |
| G4114-SR-M11/GC4114-SR-M11 | 362.0 | 143.0 | 3/4 NPT |
| G4116-SR-M11/GC4116-SR-M11 | 412.8 | 158.8 | 3/4 NPT |
| G4120-SR-M11/GC4120-SR-M11 | 514.4 | 206.5 | 3/4 NPT |
| G4124-SR-M11/GC4124-SR-M11 | 616.0 | 244.6 | 3/4 NPT |
| G4128-SR-M11/GC4128-SR-M11 | 736.6 | 292.1 | 1.0 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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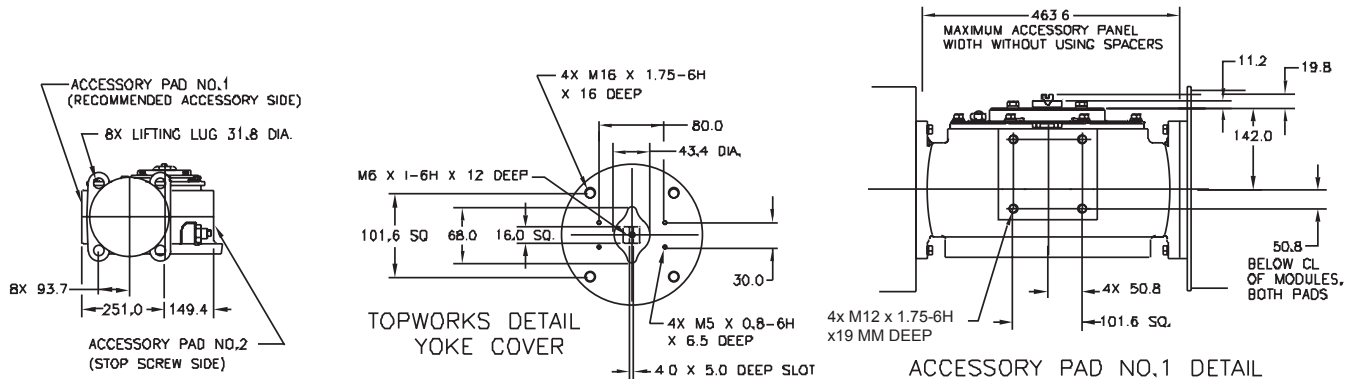
Sheet No.: GPM 3.16 Rev. D

Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators Lug/Accessory Details



Note: Not Certified dimensional drawings. Such drawings available on request.
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All dimensions are expressed in millimeters.

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Sheet No.: GPM 3.17 Rev. D

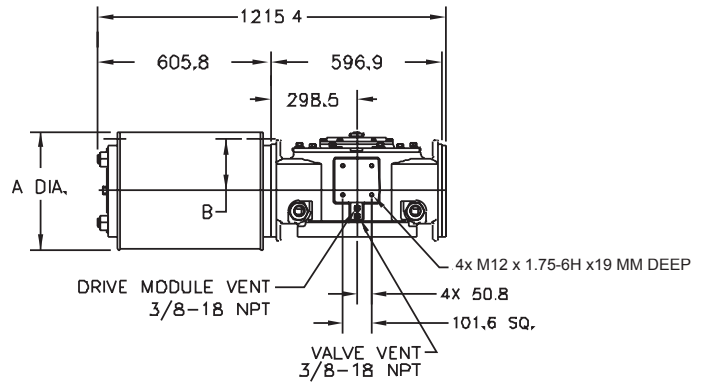
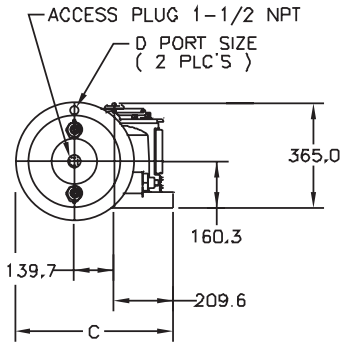
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

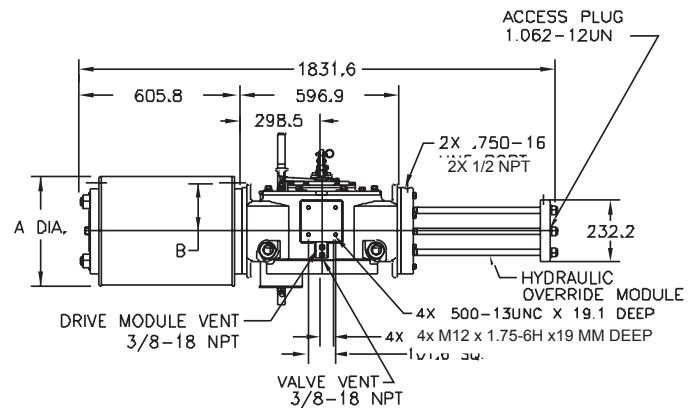
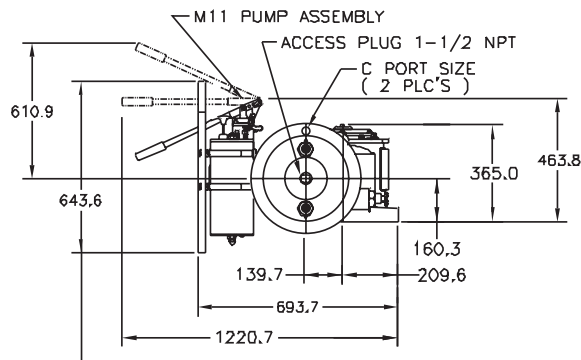
Double-Acting Actuators

G51XX/GC51XX (CW Model Shown)



| Actuator Model | A | B | C | D |
|----------------|-------|-------|-------|-----------|
| G5116/GC5116 | 412.8 | 179.3 | 555.8 | 3/4 NPT |
| G5120/GC5120 | 514.4 | 203.2 | 606.6 | 3/4 NPT |
| G5124/GC5124 | 616.0 | 235.0 | 657.4 | 1 NPT |
| G5128/GC5128 | 736.6 | 306.3 | 717.6 | 1 NPT |
| G5132/GC5132 | 838.2 | 355.6 | 768.4 | 1-1/2 NPT |
| G5136/GC5136 | 946.2 | 406.4 | 822.5 | 1-1/2 NPT |

G51XX-M11/GC51XX-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|----------------------|-------|-------|-----------|
| G5116-M11/GC5116-M11 | 412.8 | 179.3 | 3/4 NPT |
| G5120-M11/GC5120-M11 | 514.4 | 203.2 | 3/4 NPT |
| G5124-M11/GC5124-M11 | 616.0 | 235.0 | 1 NPT |
| G5128-M11/GC5128-M11 | 736.6 | 306.3 | 1 NPT |
| G5132-M11/GC5132-M11 | 838.2 | 355.6 | 1-1/2 NPT |
| G5136-M11/GC5136-M11 | 946.2 | 406.4 | 1-1/2 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request. Contact factory with correct model designation and serial number. All dimensions are expressed in millimeters.

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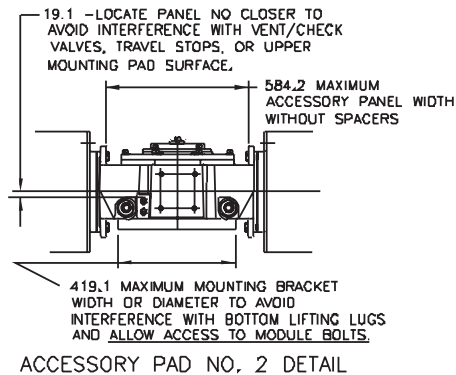
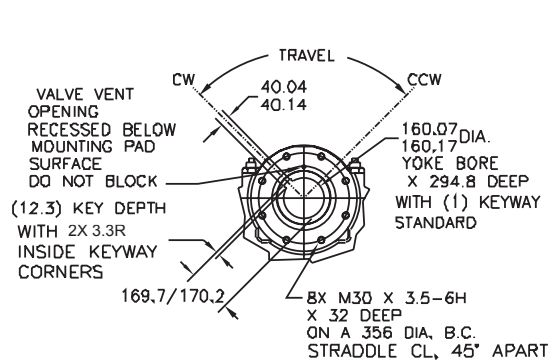
Sheet No.: GPM 3.18 Rev. C

Date: March 2017

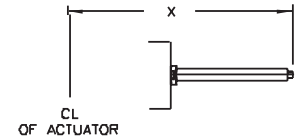
G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

**Double-Acting Actuators
Valve/Accessory Mounting Details**



Adjustable End Stops



| | X Extended Travel Stop | X End Stop |
|-----------------------------|------------------------------|---------------|
| Power Module | 1271.8 | 979.9 |
| Blind End Cap Module | 717.6 | 441.5 |
| Spring Module | 1790.7 | 1333.5 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Sheet No.: GPM 3.19 Rev. D

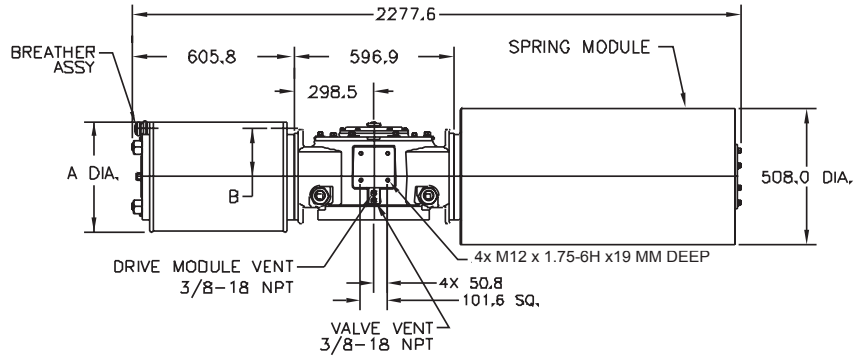
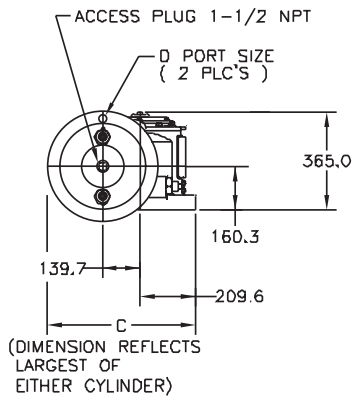
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

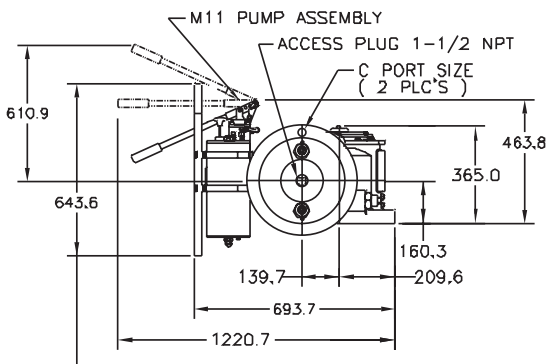
Spring-Return Actuators

G51XX-SR/GC51XX-SR (CW Model Shown)

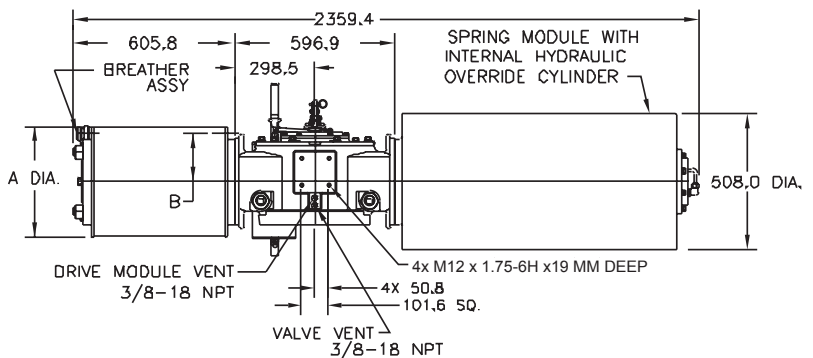


| Actuator Model | A | B | C | D |
|---------------------------|-------|-------|-------|-----------|
| G5116-SR/GC5116-SR | 412.8 | 179.3 | 603.3 | 3/4 NPT |
| G5120-SR/GC5120-SR | 514.4 | 203.2 | 606.6 | 3/4 NPT |
| G5124-SR/GC5124-SR | 616.0 | 235.0 | 657.4 | 1 NPT |
| G5128-SR/GC5128-SR | 736.6 | 306.3 | 717.6 | 1 NPT |
| G5132-SR/GC5132-SR | 838.2 | 355.6 | 768.4 | 1-1/2 NPT |
| G5136-SR/GC5136-SR | 946.2 | 406.4 | 822.5 | 1-1/2 NPT |

G51XX-SR-M11/GC51XX-SR-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN



| Actuator Model | A | B | C |
|-----------------------------------|-------|-------|-----------|
| G5116-SR-M11/GC5116-SR-M11 | 412.8 | 179.3 | 3/4 NPT |
| G5120-SR-M11/GC5120-SR-M11 | 514.4 | 203.2 | 3/4 NPT |
| G5124-SR-M11/GC5124-SR-M11 | 616.0 | 235.0 | 1 NPT |
| G5128-SR-M11/GC5128-SR-M11 | 736.6 | 306.3 | 1 NPT |
| G5132-SR-M11/GC5132-SR-M11 | 838.2 | 355.6 | 1-1/2 NPT |
| G5136-SR-M11/GC5136-SR-M11 | 946.2 | 406.4 | 1-1/2 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request. Contact factory with correct model designation and serial number. All dimensions are expressed in millimeters.

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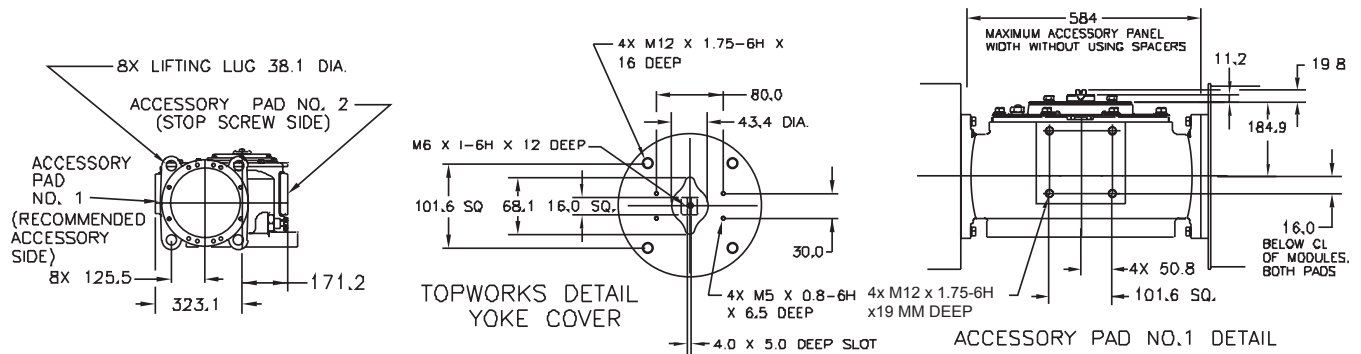
Sheet No.: GPM 3.20 Rev. C

Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators
Lug/Accessory Details



Note: Not Certified dimensional drawings. Such drawings available on request.
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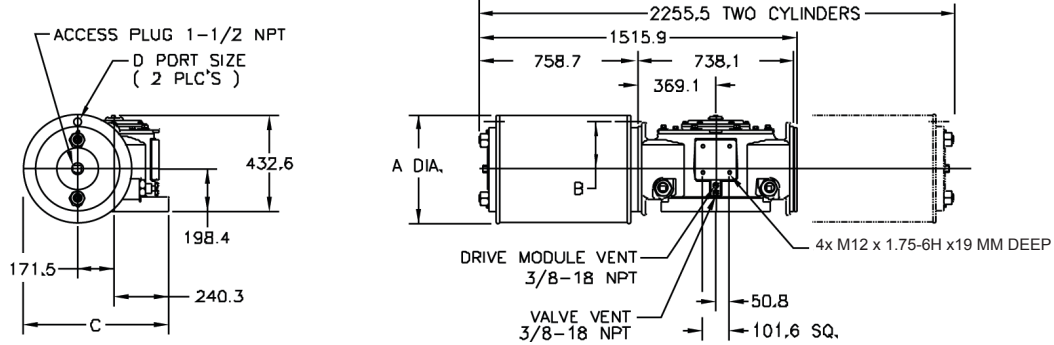
Sheet No.: GPM 3.21 Rev. D

Date: March 2017

G/GC-Series

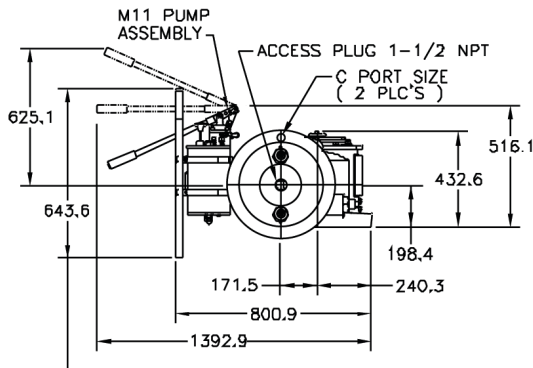
Dimensions – (Pneumatic) mm. G/GC-Series

Double-Acting Actuators
G71XX/GC71XX or G712XX/GC712XX (CW Model Shown)

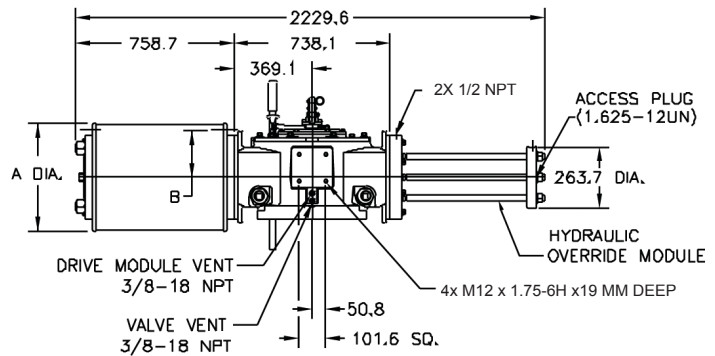


| Actuator Model | A | B | C | D |
|----------------|-------|-------|-------|-----------|
| G7120/GC7120 | 514.4 | 222.3 | 669.0 | 3/4 NPT |
| G7124/GC7124 | 616.0 | 244.6 | 719.8 | 1 NPT |
| G7128/GC7128 | 736.6 | 285.8 | 780.0 | 1-1/2 NPT |
| G7132/GC7132 | 838.2 | 355.6 | 830.8 | 1-1/2 NPT |
| G7136/GC7136 | 946.2 | 406.4 | 884.9 | 1-1/2 NPT |
| G71228/GC71228 | 736.6 | 285.8 | 780.0 | 1-1/2 NPT |

G71XX-M11/GC71XX-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.



| Actuator Model | A | B | C |
|----------------------|-------|-------|-----------|
| G7120-M11/GC7120-M11 | 514.4 | 222.3 | 3/4 NPT |
| G7124-M11/GC7124-M11 | 616.0 | 244.6 | 1 NPT |
| G7128-M11/GC7128-M11 | 736.6 | 285.8 | 1-1/2 NPT |
| G7132-M11/GC7132-M11 | 838.2 | 355.6 | 1-1/2 NPT |
| G7136-M11/GC7136-M11 | 946.2 | 406.4 | 1-1/2 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request. Contact factory with correct model designation and serial number. All dimensions are expressed in millimeters.

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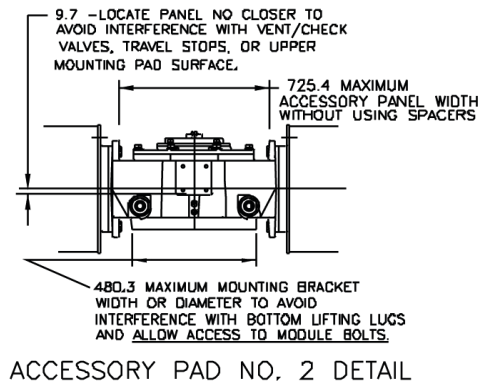
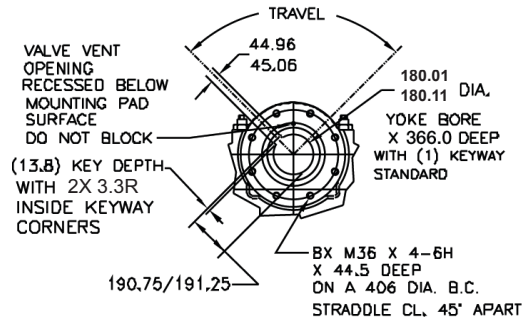
Sheet No.: GPM 3.22 Rev. C

Date: March 2017

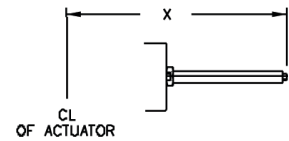
G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Double-Acting Actuators Valve/Accessory Mounting Details



Adjustable End Stops



| | X Extended Travel Stop | X End Stop |
|----------------------|------------------------------|---------------|
| Power Module | 1548.6 | 1186.7 |
| Blind End Cap Module | 902.5 | 540.5 |
| Spring Module | 2313.9 | 1382.8 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Sheet No.: GPM 3.23 Rev. D

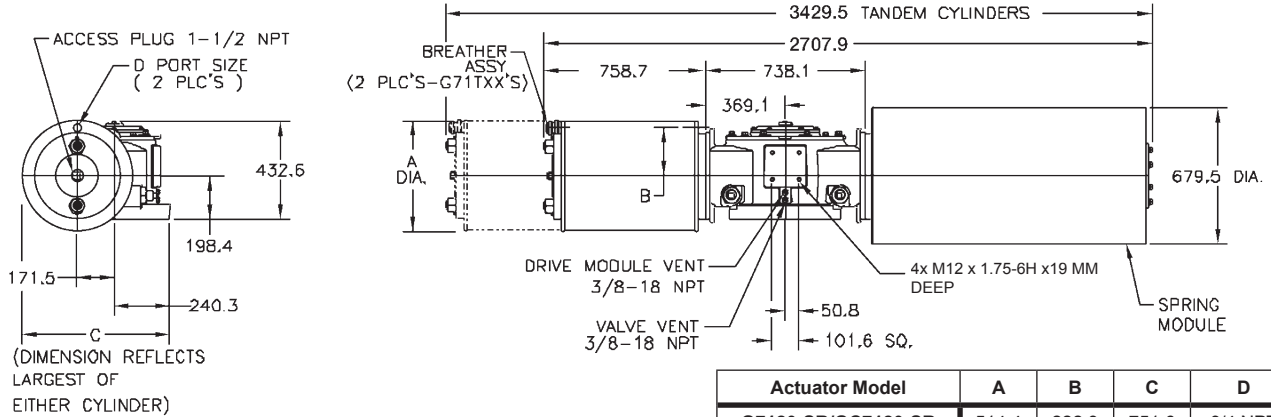
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

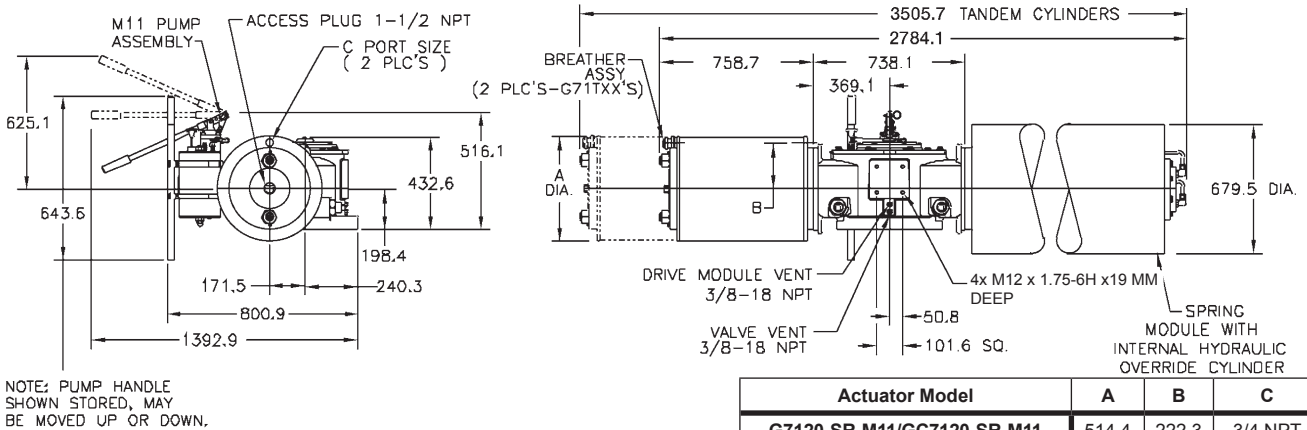
Spring-Return Actuators

G71XX-SR/GC71XX-SR or G71TXX-SR/GC71TXX-SR (CW Model Shown)



| Actuator Model | A | B | C | D |
|-----------------------------|-------|-------|-------|-----------|
| G7120-SR/GC7120-SR | 514.4 | 222.3 | 751.6 | 3/4 NPT |
| G7124-SR/GC7124-SR | 616.0 | 244.6 | 751.6 | 1 NPT |
| G7128-SR/GC7128-SR | 736.6 | 285.8 | 780.0 | 1-1/2 NPT |
| G7132-SR/GC7132-SR | 838.2 | 355.6 | 830.8 | 1-1/2 NPT |
| G7136-SR/GC7136-SR | 946.2 | 406.4 | 884.9 | 1-1/2 NPT |
| G71T28-SR/GC71T28-SR | 736.6 | 285.8 | 780.0 | 1-1/2 NPT |

G71XX-SR-M11/GC71XX-SR-M11 or G71TXX-SR-M11/GC71TXX-SR-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|-------------------------------------|-------|-------|-----------|
| G7120-SR-M11/GC7120-SR-M11 | 514.4 | 222.3 | 3/4 NPT |
| G7124-SR-M11/GC7124-SR-M11 | 616.0 | 244.6 | 1 NPT |
| G7128-SR-M11/GC7128-SR-M11 | 736.6 | 285.8 | 1-1/2 NPT |
| G7132-SR-M11/GC7132-SR-M11 | 838.2 | 355.6 | 1-1/2 NPT |
| G7136-SR-M11/GC7136-SR-M11 | 946.2 | 406.4 | 1-1/2 NPT |
| G71T28-SR-M11/GC71T28-SR-M11 | 736.6 | 285.8 | 1-1/2 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request. Contact factory with correct model designation and serial number. All dimensions are expressed in millimeters.

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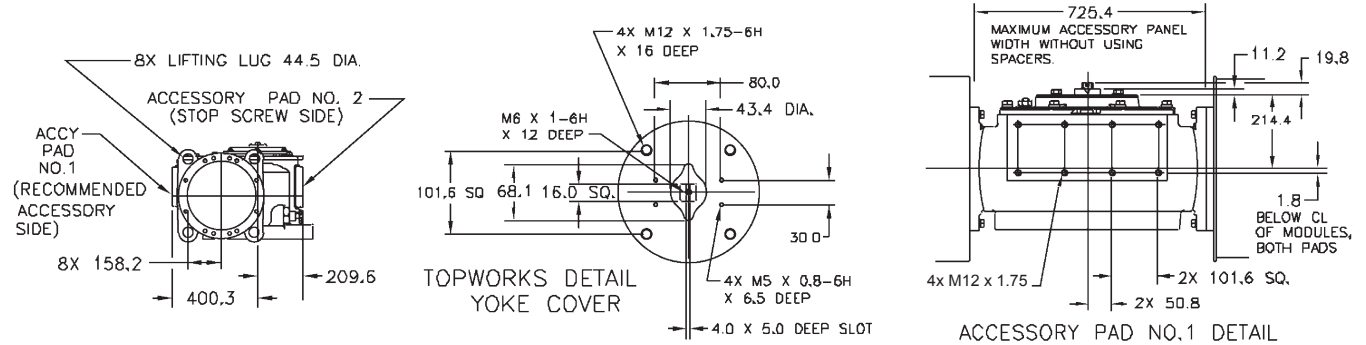
Sheet No.: GPM 3.24 Rev. D

Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators Lug/Accessory Details



Note: Not Certified dimensional drawings. Such drawings available on request.
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All dimensions are expressed in millimeters.

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Sheet No.: GPM 3.25 Rev. C

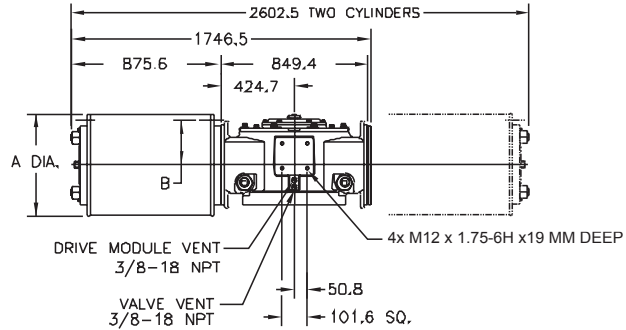
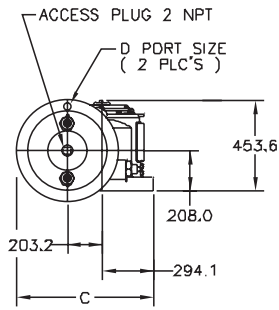
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

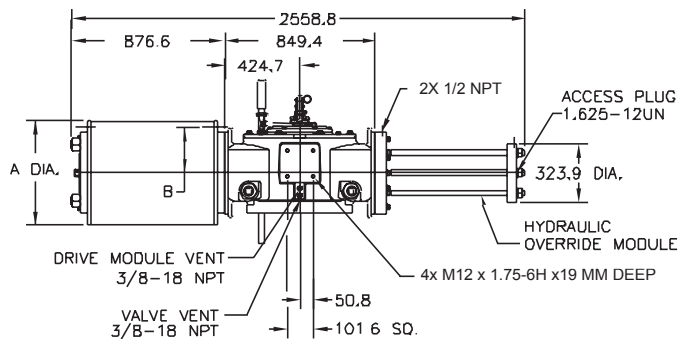
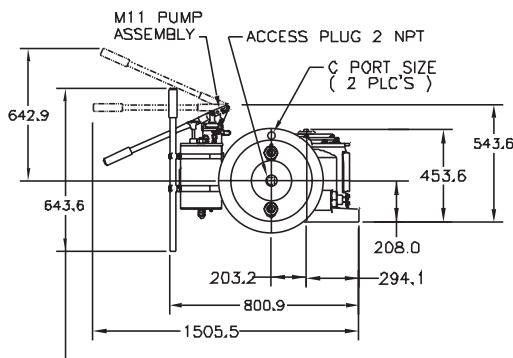
Double-Acting Actuators

G81XX/GC81XX or G812XX/GC812XX (CW Model Shown)



| Actuator Model | A | B | C | D |
|-----------------------|--------|-------|--------|-----------|
| G8124/GC8124 | 616.0 | 244.6 | 805.4 | 1 NPT |
| G8128/GC8128 | 736.6 | 314.5 | 865.6 | 1-1/2 NPT |
| G8132/GC8132 | 838.2 | 339.9 | 916.4 | 1-1/2 NPT |
| G8136/GC8136 | 946.2 | 406.4 | 970.5 | 1-1/2 NPT |
| G8140/GC8140 | 1047.8 | 457.2 | 1021.3 | 2 NPT |
| G81232/GC81232 | 838.2 | 339.9 | 916.4 | 1-1/2 NPT |
| G81236/GC81236 | 946.2 | 406.4 | 970.5 | 1-1/2 NPT |

G81XX-M11/GC81XX-M11 (CW Model Shown)



NOTE PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|-----------------------------|--------|-------|-----------|
| G8124-M11/GC8124-M11 | 616.0 | 244.6 | 1 NPT |
| G8128-M11/GC8128-M11 | 736.6 | 314.5 | 1-1/2 NPT |
| G8132-M11/GC8132-M11 | 838.2 | 339.9 | 1-1/2 NPT |
| G8136-M11/GC8136-M11 | 946.2 | 406.4 | 1-1/2 NPT |
| G8140-M11/GC8140-M11 | 1047.8 | 457.2 | 2NPT |

Note: Not Certified dimensional drawings. Such drawings available on request. Contact factory with correct model designation and serial number. All dimensions are expressed in millimeters.

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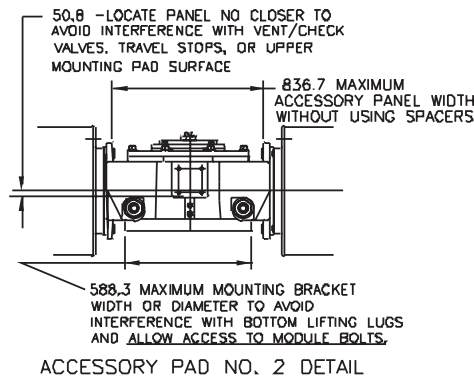
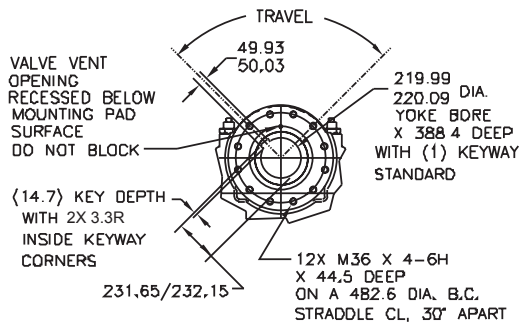
Sheet No.: GPM 3.26 Rev. C

Date: March 2017

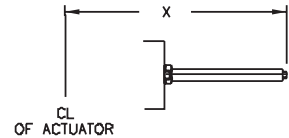
G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Double-Acting Actuators Valve/Accessory Mounting Details



Adjustable End Stops



| | X Extended Travel Stop | X End Stop |
|----------------------|------------------------------|---------------|
| Power Module | 1801.9 | 1381.5 |
| Blind End Cap Module | 1032.8 | 633.0 |
| Spring Module | 2845.8 | 1803.4 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Data sheet

Sheet No.: GPM 3.27 Rev. D

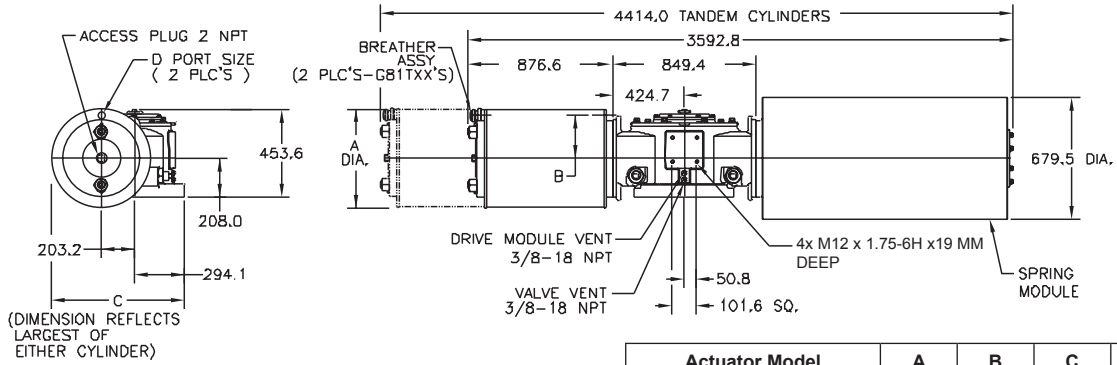
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

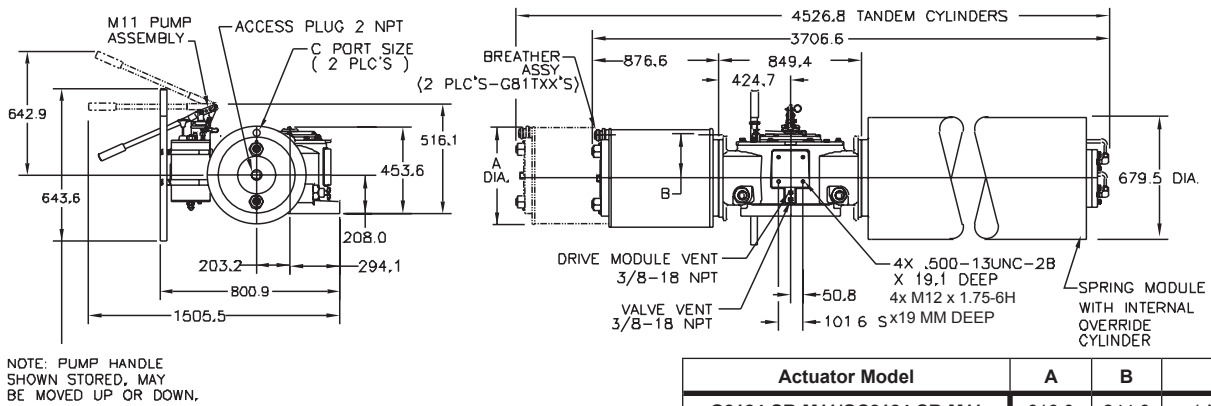
Spring-Return Actuators

G81XX-SR/GC81XX-SR or G81TXX-SR/GC81TXX-SR (CW Model Shown)



| Actuator Model | A | B | C | D |
|----------------------|--------|-------|--------|-----------|
| G8124-SR/GC8124-SR | 616.0 | 244.6 | 837.2 | 1 NPT |
| G8128-SR/GC8128-SR | 736.6 | 314.5 | 865.6 | 1-1/2 NPT |
| G8132-SR/GC8132-SR | 838.2 | 339.9 | 916.4 | 1-1/2 NPT |
| G8136-SR/GC8136-SR | 946.2 | 406.4 | 970.5 | 1-1/2 NPT |
| G8140-SR/GC8140-SR | 1047.8 | 457.2 | 1021.3 | 2 NPT |
| G81T32-SR/GC81T32-SR | 838.2 | 339.9 | 916.4 | 1-1/2 NPT |
| G81T36-SR/GC81T36-SR | 946.2 | 406.4 | 970.5 | 1-1/2 NPT |

G81XX-SR-M11/GC81XX-SR-M11 or G81TXX-SR-M11/GC81TXX-SR-M11 (CW Model Shown)



| Actuator Model | A | B | C |
|------------------------------|--------|-------|-----------|
| G8124-SR-M11/GC8124-SR-M11 | 616.0 | 244.6 | 1 NPT |
| G8128-SR-M11/GC8128-SR-M11 | 736.6 | 314.5 | 1-1/2 NPT |
| G8132-SR-M11/GC8132-SR-M11 | 838.2 | 339.9 | 1-1/2 NPT |
| G8136-SR-M11/GC8136-SR-M11 | 946.2 | 406.4 | 1-1/2 NPT |
| G8140-SR-M11/GC8140-SR-M11 | 1047.8 | 457.2 | 2 NPT |
| G81T32-SR-M11/GC81T32-SR-M11 | 838.2 | 339.9 | 1-1/2 NPT |
| G81T36-SR-M11/GC81T36-SR-M11 | 946.2 | 406.4 | 1-1/2 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Data sheet

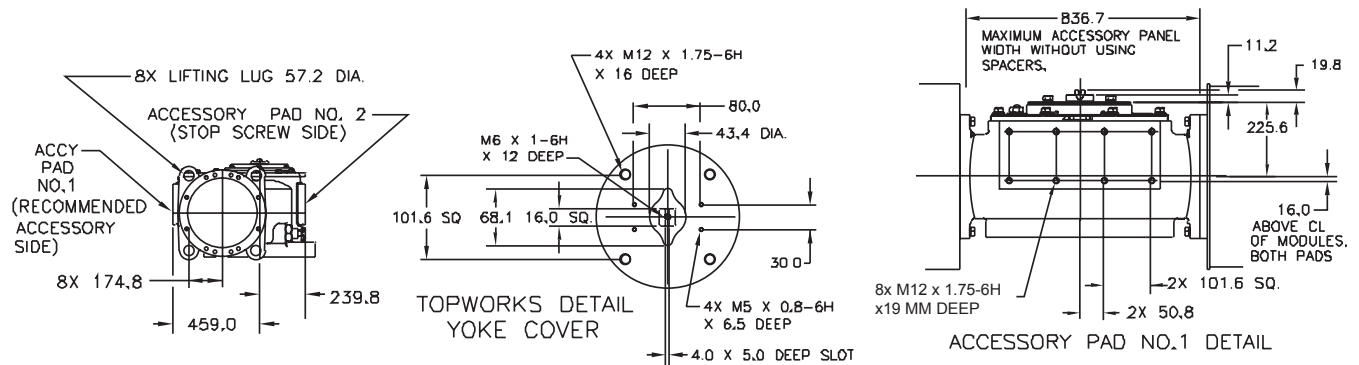
Sheet No.: GPM 3.28 Rev. D

Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators Lug/Accessory Details



Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Data sheet

Sheet No.: GPM 3.29 Rev. D

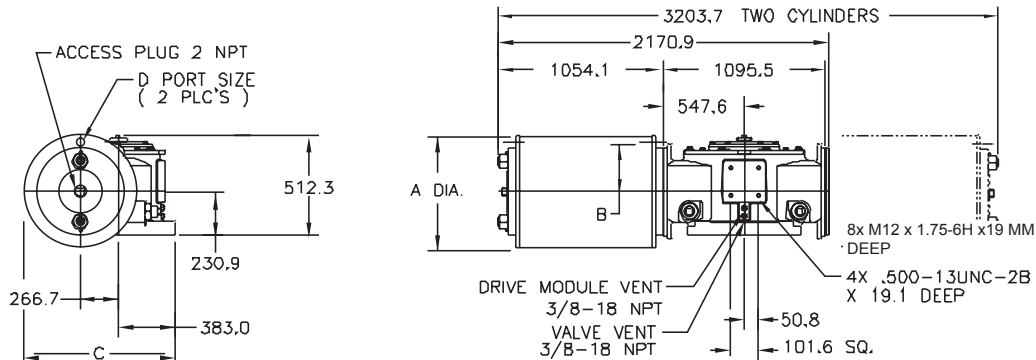
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

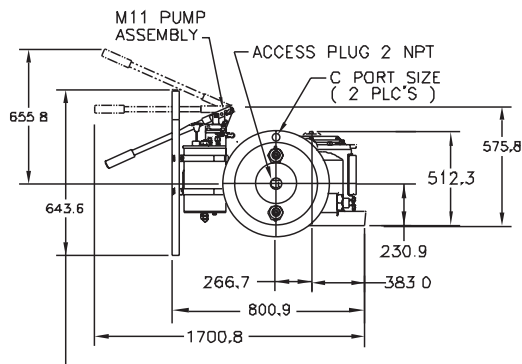
Double-Acting Actuators

G101XX/GC101XX or G1012XX/GC1012XX (CW Model Shown)

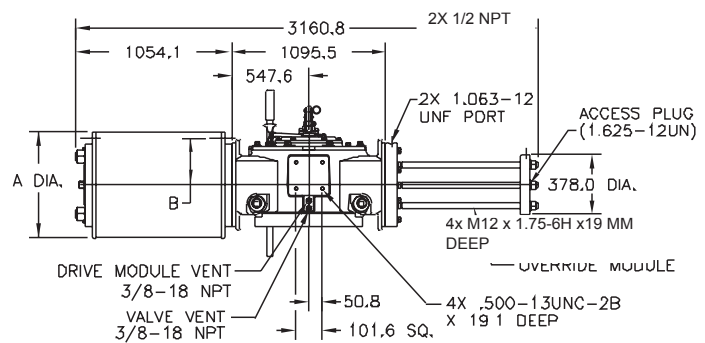


| Actuator Model | A | B | C | D |
|------------------|--------|-------|--------|-----------|
| G10128/GC10128 | 736.6 | 314.5 | 1018.0 | 1-1/2 NPT |
| G10132/GC10132 | 838.2 | 339.9 | 1068.8 | 1-1/2 NPT |
| G10136/GC10136 | 946.2 | 406.4 | 1122.9 | 2 NPT |
| G10140/GC10140 | 1122.9 | 457.2 | 1173.7 | 2 NPT |
| G101232/GC101232 | 838.2 | 339.9 | 1068.8 | 1-1/2 NPT |
| G101236/GC101236 | 946.2 | 406.4 | 1122.9 | 2 NPT |
| G101240/GC101240 | 1047.8 | 457.2 | 1173.7 | 2 NPT |

G101XX-M11/GC101XX-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.



| Actuator Model | A | B | C |
|------------------------|--------|-------|-----------|
| G10128-M11/GC10128-M11 | 736.6 | 314.5 | 1-1/2 NPT |
| G10132-M11/GC10132-M11 | 838.2 | 339.9 | 1-1/2 NPT |
| G10136-M11/GC10136-M11 | 946.2 | 406.4 | 2 NPT |
| G10140-M11/GC10140-M11 | 1047.8 | 457.2 | 2 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request. Contact factory with correct model designation and serial number. All dimensions are expressed in millimeters.

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Data sheet

Sheet No.: GPM 3.30 Rev. C

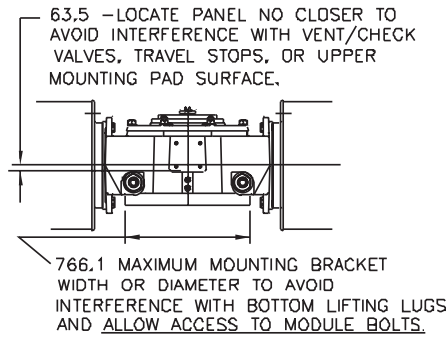
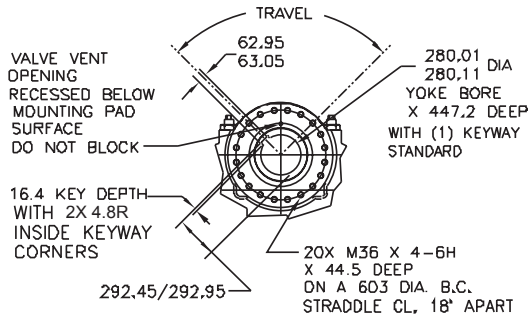
Date: March 2017

G/GC-Series

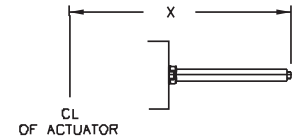
Dimensions – (Pneumatic) mm. G/GC-Series

**Double-Acting Actuators
Valve/Accessory Mounting Details**

Adjustable End Stops



ACCESSORY PAD NO. 2 DETAIL



| | X Extended Travel Stop | X End Stop |
|-----------------------------|------------------------------|---------------|
| Power Module | 2262.6 | 1669.0 |
| Blind End Cap Module | 1325.6 | 757.4 |
| Spring Module | 3429.5 | 2051.6 |

Note: Not Certified dimensional drawings. Such drawings available on request.
Contact factory with correct model designation and serial number.
All dimensions are expressed in millimeters.

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Data sheet

Sheet No.: GPM 3.31 Rev. D

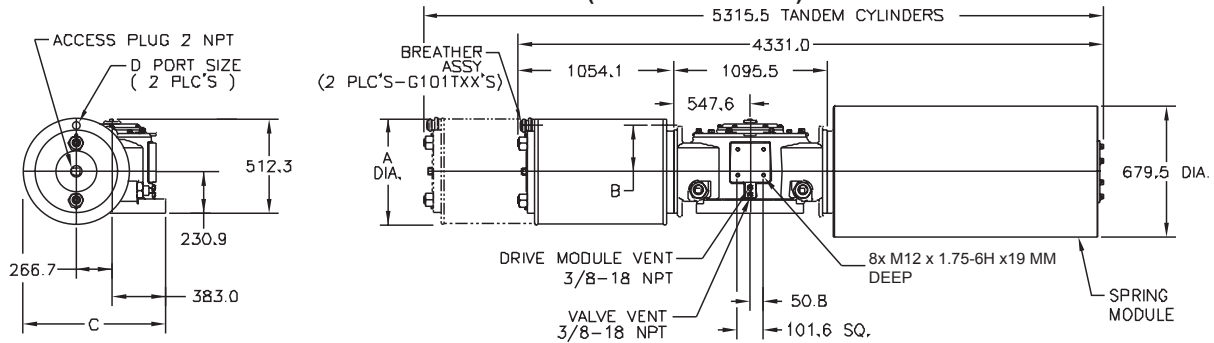
Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

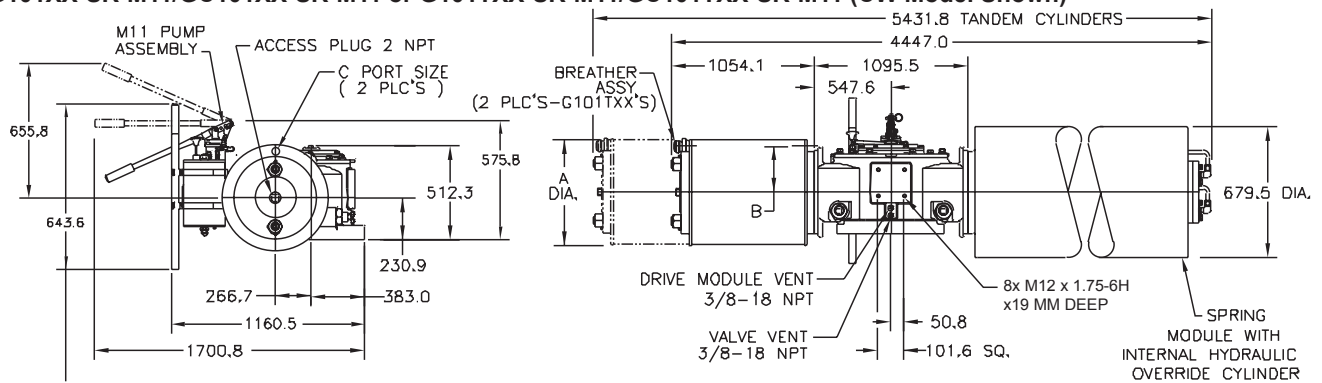
Spring-Return Actuators

G101XX-SR/GC101XX-SR or G101TXX-SR/GC101TXX-SR (CW Model Shown)



| Actuator Model | A | B | C | D |
|------------------------|--------|-------|--------|-----------|
| G10128-SR/GC10128-SR | 736.6 | 314.5 | 1018.0 | 1-1/2 NPT |
| G10132-SR/GC10132-SR | 838.2 | 339.9 | 1068.8 | 1-1/2 NPT |
| G10136-SR/GC10136-SR | 946.2 | 406.4 | 1122.9 | 2 NPT |
| G10140-SR/GC10140-SR | 1047.8 | 457.2 | 1173.7 | 2 NPT |
| G101T32-SR/GC101T32-SR | 838.2 | 339.9 | 1068.8 | 1-1/2 NPT |
| G101T36-SR/GC101T36-SR | 946.2 | 406.4 | 1122.9 | 2 NPT |
| G101T40-SR/GC101T40-SR | 1047.8 | 457.2 | 1173.7 | 2 NPT |

G101XX-SR-M11/GC101XX-SR-M11 or G101TXX-SR-M11/GC101TXX-SR-M11 (CW Model Shown)



NOTE: PUMP HANDLE SHOWN STORED, MAY BE MOVED UP OR DOWN.

| Actuator Model | A | B | C |
|--------------------------------|--------|-------|-----------|
| G10128-SR-M11/GC10128-SR-M11 | 736.6 | 314.5 | 1-1/2 NPT |
| G10132-SR-M11/GC10132-SR-M11 | 838.2 | 339.9 | 1-1/2 NPT |
| G10136-SR-M11/GC10136-SR-M11 | 946.2 | 406.4 | 2 NPT |
| G10140-SR-M11/GC10140-SR-M11 | 1047.8 | 457.2 | 2 NPT |
| G101T32-SR-M11/GC101T32-SR-M11 | 838.2 | 339.9 | 1-1/2 NPT |
| G101T36-SR-M11/GC101T36-SR-M11 | 946.2 | 406.4 | 2 NPT |
| G101T40-SR-M11/GC101T40-SR-M11 | 1047.8 | 457.2 | 2 NPT |

Note: Not Certified dimensional drawings. Such drawings available on request.
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Data sheet

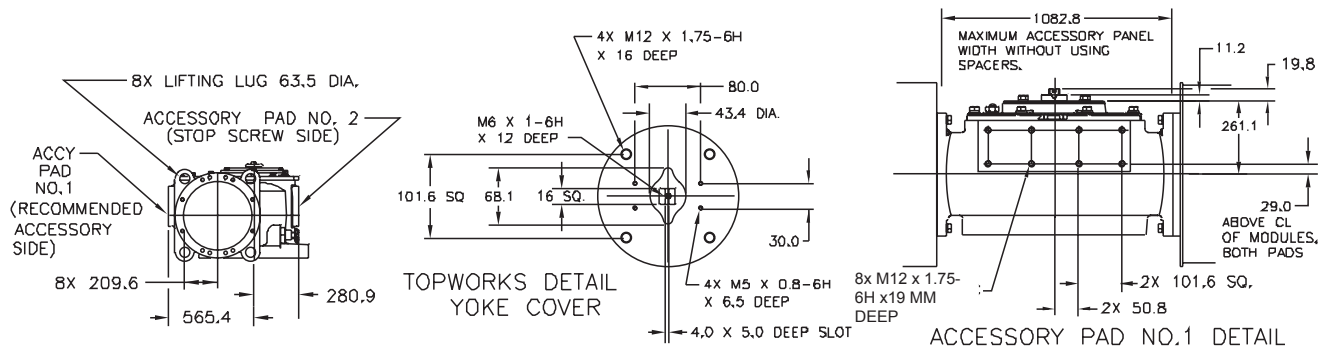
Sheet No.: GPM 3.32 Rev. D

Date: March 2017

G/GC-Series

Dimensions – (Pneumatic) mm. G/GC-Series

Spring-Return Actuators Lug/Accessory Details



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Note: Not Certified dimensional drawings. Such drawings available on request.

Contact factory with correct model designation and serial number.

All dimensions are expressed in millimeters.

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Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|-----------------------|-------------|------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | |
| G01x08 | Start | Outboard | 861 | 964 | 1,135 | 1,306 | 1,477 | 1,648 | 1,990 | 2,332 | 2,674 | 3,016 | 3,358 | 3,701 | 4,043 | 4,214 | 4,386 | 4,557 | | 2.8 | 13.2 |
| | Min | | 466 | 520 | 609 | 699 | 788 | 877 | 1,056 | 1,235 | 1,414 | 1,593 | 1,771 | 1,950 | 2,129 | 2,219 | 2,308 | 2,397 | | | |
| | End | | 858 | 960 | 1,130 | 1,300 | 1,470 | 1,640 | 1,981 | 2,321 | 2,662 | 3,003 | 3,344 | 3,684 | 4,025 | 4,196 | 4,366 | 4,537 | | | |
| G01x08 | Start | Inboard | 848 | 949 | 1,117 | 1,286 | 1,454 | 1,623 | 1,960 | 2,297 | 2,634 | 2,971 | 3,308 | 3,646 | 3,983 | 4,152 | 4,321 | 4,489 | | 2.8 | 13.2 |
| | Min | | 459 | 512 | 599 | 687 | 775 | 863 | 1,039 | 1,215 | 1,391 | 1,567 | 1,743 | 1,919 | 2,095 | 2,183 | 2,271 | 2,359 | | | |
| | End | | 844 | 945 | 1,113 | 1,281 | 1,448 | 1,616 | 1,952 | 2,288 | 2,623 | 2,959 | 3,295 | 3,631 | 3,967 | 4,136 | 4,304 | 4,472 | | | |
| G01x09 | Start | Outboard | 1,105 | 1,236 | 1,453 | 1,670 | 1,888 | 2,105 | 2,540 | 2,975 | 3,410 | 3,845 | 4,281 | | | | | | | 2.8 | 10.4 |
| | Min | | 595 | 664 | 777 | 891 | 1,004 | 1,118 | 1,345 | 1,572 | 1,800 | 2,027 | 2,254 | | | | | | | | |
| | End | | 1,100 | 1,230 | 1,447 | 1,663 | 1,879 | 2,096 | 2,529 | 2,962 | 3,395 | 3,829 | 4,262 | | | | | | | | |
| G01x09 | Start | Inboard | 1,092 | 1,221 | 1,436 | 1,651 | 1,866 | 2,081 | 2,511 | 2,941 | 3,371 | 3,801 | 4,232 | | | | | | | 2.8 | 10.4 |
| | Min | | 588 | 655 | 767 | 879 | 991 | 1,104 | 1,328 | 1,552 | 1,777 | 2,001 | 2,225 | | | | | | | | |
| | End | | 1,088 | 1,216 | 1,430 | 1,644 | 1,858 | 2,073 | 2,501 | 2,929 | 3,358 | 3,787 | 4,215 | | | | | | | | |
| G01x10 | Start | Outboard | 1,476 | 1,649 | 1,937 | 2,224 | 2,512 | 2,800 | 3,375 | 3,951 | 4,527 | | | | | | | | | 2.8 | 7.9 |
| | Min | | 791 | 881 | 1,031 | 1,182 | 1,332 | 1,482 | 1,783 | 2,083 | 2,384 | | | | | | | | | | |
| | End | | 1,470 | 1,642 | 1,928 | 2,215 | 2,501 | 2,788 | 3,361 | 3,934 | 4,507 | | | | | | | | | | |
| G01x10 | Start | Inboard | 1,464 | 1,635 | 1,920 | 2,206 | 2,491 | 2,777 | 3,347 | 3,918 | 4,490 | | | | | | | | | 2.8 | 7.9 |
| | Min | | 783 | 873 | 1,021 | 1,170 | 1,319 | 1,468 | 1,766 | 2,063 | 2,361 | | | | | | | | | | |
| | End | | 1,458 | 1,629 | 1,913 | 2,197 | 2,481 | 2,766 | 3,334 | 3,903 | 4,472 | | | | | | | | | | |
| G01x12 | Start | Outboard | 2,133 | 2,380 | 2,792 | 3,203 | 3,615 | 4,027 | | | | | | | | | | | | 2.8 | 5.5 |
| | Min | | 1,137 | 1,266 | 1,480 | 1,695 | 1,910 | 2,125 | | | | | | | | | | | | | |
| | End | | 2,124 | 2,369 | 2,779 | 3,189 | 3,599 | 4,009 | | | | | | | | | | | | | |
| G01x12 | Start | Inboard | 2,121 | 2,367 | 2,776 | 3,186 | 3,596 | 4,005 | | | | | | | | | | | | 2.8 | 5.5 |
| | Min | | 1,129 | 1,257 | 1,470 | 1,684 | 1,897 | 2,111 | | | | | | | | | | | | | |
| | End | | 2,113 | 2,358 | 2,766 | 3,173 | 3,581 | 3,990 | | | | | | | | | | | | | |
| G01x14 | Start | Outboard | 2,600 | 2,900 | 3,401 | 3,901 | 4,401 | | | | | | | | | | | | | 2.8 | 4.6 |
| | Min | | 1,383 | 1,540 | 1,801 | 2,062 | 2,323 | | | | | | | | | | | | | | |
| | End | | 2,589 | 2,888 | 3,386 | 3,884 | 4,382 | | | | | | | | | | | | | | |
| G01x14 | Start | Inboard | 2,589 | 2,888 | 3,386 | 3,885 | 4,383 | | | | | | | | | | | | | 2.8 | 4.6 |
| | Min | | 1,375 | 1,531 | 1,791 | 2,050 | 2,310 | | | | | | | | | | | | | | |
| | End | | 2,579 | 2,877 | 3,373 | 3,869 | 4,366 | | | | | | | | | | | | | | |

Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G2x09 | Start | Outboard | 1,337 | 1,495 | 1,758 | 2,021 | 2,284 | 2,547 | 3,074 | 3,600 | 4,127 | 4,653 | 5,180 | 5,707 | 6,234 | 6,497 | 6,761 | 7,024 | | 2.8 | 12.9 |
| | Min | | 721 | 803 | 941 | 1,078 | 1,216 | 1,353 | 1,628 | 1,903 | 2,178 | 2,453 | 2,728 | 3,003 | 3,279 | 3,416 | 3,554 | 3,691 | | | |
| | End | | 1,332 | 1,489 | 1,751 | 2,013 | 2,275 | 2,537 | 3,061 | 3,585 | 4,110 | 4,634 | 5,159 | 5,683 | 6,208 | 6,470 | 6,733 | 6,995 | | | |
| G2x09 | Start | Inboard | 1,321 | 1,477 | 1,738 | 1,998 | 2,258 | 2,518 | 3,038 | 3,559 | 4,080 | 4,600 | 5,121 | 5,642 | 6,163 | 6,424 | 6,684 | 6,945 | | 2.8 | 12.9 |
| | Min | | 711 | 793 | 929 | 1,064 | 1,200 | 1,336 | 1,607 | 1,879 | 2,150 | 2,422 | 2,694 | 2,965 | 3,237 | 3,373 | 3,509 | 3,645 | | | |
| | End | | 1,316 | 1,472 | 1,731 | 1,990 | 2,249 | 2,509 | 3,027 | 3,546 | 4,064 | 4,583 | 5,102 | 5,621 | 6,140 | 6,400 | 6,659 | 6,919 | | | |
| G2x10 | Start | Outboard | 1,787 | 1,995 | 2,344 | 2,692 | 3,040 | 3,388 | 4,085 | 4,781 | 5,478 | 6,175 | 6,872 | | | | | | | 2.8 | 9.7 |
| | Min | | 958 | 1,067 | 1,248 | 1,430 | 1,612 | 1,794 | 2,158 | 2,521 | 2,885 | 3,249 | 3,613 | | | | | | | | |
| | End | | 1,779 | 1,987 | 2,334 | 2,681 | 3,027 | 3,374 | 4,068 | 4,762 | 5,455 | 6,149 | 6,844 | | | | | | | | |
| G2x10 | Start | Inboard | 1,771 | 1,979 | 2,324 | 2,669 | 3,015 | 3,360 | 4,051 | 4,742 | 5,433 | 6,124 | 6,816 | | | | | | | 2.8 | 9.7 |
| | Min | | 948 | 1,056 | 1,236 | 1,416 | 1,597 | 1,777 | 2,137 | 2,497 | 2,858 | 3,218 | 3,578 | | | | | | | | |
| | End | | 1,765 | 1,971 | 2,315 | 2,659 | 3,003 | 3,347 | 4,036 | 4,724 | 5,413 | 6,102 | 6,790 | | | | | | | | |
| G2x12 | Start | Outboard | 2,581 | 2,880 | 3,378 | 3,876 | 4,374 | 4,873 | 5,869 | 6,866 | | | | | | | | | | 2.8 | 6.9 |
| | Min | | 1,376 | 1,532 | 1,792 | 2,052 | 2,312 | 2,572 | 3,092 | 3,612 | | | | | | | | | | | |
| | End | | 2,570 | 2,868 | 3,364 | 3,860 | 4,356 | 4,853 | 5,845 | 6,838 | | | | | | | | | | | |
| G2x12 | Start | Inboard | 2,567 | 2,864 | 3,360 | 3,855 | 4,351 | 4,847 | 5,838 | 6,830 | | | | | | | | | | 2.8 | 6.9 |
| | Min | | 1,366 | 1,521 | 1,780 | 2,038 | 2,296 | 2,555 | 3,071 | 3,588 | | | | | | | | | | | |
| | End | | 2,557 | 2,853 | 3,347 | 3,841 | 4,335 | 4,829 | 5,817 | 6,805 | | | | | | | | | | | |
| G2x14 | Start | Outboard | 3,147 | 3,510 | 4,115 | 4,720 | 5,326 | 5,931 | | | | | | | | | | | | 2.8 | 5.6 |
| | Min | | 1,674 | 1,864 | 2,179 | 2,495 | 2,811 | 3,127 | | | | | | | | | | | | | |
| | End | | 3,134 | 3,495 | 4,098 | 4,701 | 5,304 | 5,907 | | | | | | | | | | | | | |
| G2x14 | Start | Inboard | 3,133 | 3,495 | 4,098 | 4,701 | 5,304 | 5,907 | | | | | | | | | | | | 2.8 | 5.6 |
| | Min | | 1,665 | 1,853 | 2,167 | 2,482 | 2,796 | 3,110 | | | | | | | | | | | | | |
| | End | | 3,122 | 3,482 | 4,083 | 4,684 | 5,284 | 5,885 | | | | | | | | | | | | | |
| G2x16 | Start | Outboard | 4,174 | 4,653 | 5,451 | 6,250 | | | | | | | | | | | | | | 2.8 | 4.2 |
| | Min | | 2,213 | 2,463 | 2,880 | 3,296 | | | | | | | | | | | | | | | |
| | End | | 4,162 | 4,640 | 5,436 | 6,233 | | | | | | | | | | | | | | | |
| G2x16 | Start | Inboard | 2,204 | 2,453 | 2,868 | 3,283 | | | | | | | | | | | | | | 2.8 | 4.2 |
| | Min | | 4,146 | 4,622 | 5,416 | 6,209 | | | | | | | | | | | | | | | |
| | End | | | | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|-------|--------|--------|-------|-------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G3x10 | Start | Outboard | 2,162 | 2,415 | 2,837 | 3,259 | 3,680 | 4,102 | 4,946 | 5,790 | 6,634 | 7,479 | 8,323 | 9,168 | 10,012 | 10,435 | 10,857 | 11,280 | 11,702 | 2.8 | 13.8 |
| | Min | | 1,159 | 1,291 | 1,512 | 1,732 | 1,952 | 2,173 | 2,613 | 3,054 | 3,494 | 3,935 | 4,376 | 4,817 | 5,257 | 5,478 | 5,698 | 5,919 | 6,139 | | |
| | End | | 2,154 | 2,406 | 2,826 | 3,246 | 3,666 | 4,087 | 4,927 | 5,768 | 6,609 | 7,450 | 8,291 | 9,133 | 9,974 | 10,395 | 10,816 | 11,237 | 11,658 | | |
| G3x10 | Start | Inboard | 2,131 | 2,381 | 2,797 | 3,213 | 3,629 | 4,045 | 4,878 | 5,711 | 6,544 | 7,377 | 8,210 | 9,043 | 9,876 | 10,293 | 10,710 | 11,127 | 11,544 | 2.8 | 13.8 |
| | Min | | 1,142 | 1,272 | 1,489 | 1,706 | 1,923 | 2,140 | 2,574 | 3,008 | 3,442 | 3,876 | 4,310 | 4,744 | 5,179 | 5,396 | 5,613 | 5,830 | 6,047 | | |
| | End | | 2,124 | 2,373 | 2,787 | 3,202 | 3,617 | 4,032 | 4,861 | 5,691 | 6,521 | 7,351 | 8,182 | 9,012 | 9,843 | 10,258 | 10,673 | 11,089 | 11,504 | | |
| G3x12 | Start | Outboard | 3,128 | 3,491 | 4,095 | 4,699 | 5,304 | 5,908 | 7,117 | 8,326 | 9,536 | 10,745 | 11,955 | | | | | | | 2.8 | 9.8 |
| | Min | | 1,668 | 1,857 | 2,172 | 2,488 | 2,803 | 3,119 | 3,749 | 4,380 | 5,011 | 5,642 | 6,273 | | | | | | | | |
| | End | | 3,116 | 3,477 | 4,079 | 4,681 | 5,283 | 5,885 | 7,090 | 8,294 | 9,499 | 10,704 | 11,909 | | | | | | | | |
| G3x12 | Start | Inboard | 3,099 | 3,458 | 4,057 | 4,656 | 5,255 | 5,854 | 7,052 | 8,251 | 9,449 | 10,648 | 11,847 | | | | | | | 2.8 | 9.8 |
| | Min | | 1,650 | 1,837 | 2,149 | 2,461 | 2,774 | 3,086 | 3,710 | 4,334 | 4,959 | 5,583 | 6,207 | | | | | | | | |
| | End | | 3,088 | 3,446 | 4,043 | 4,640 | 5,237 | 5,834 | 7,028 | 8,223 | 9,417 | 10,612 | 11,807 | | | | | | | | |
| G3x14 | Start | Outboard | 3,816 | 4,257 | 4,992 | 5,726 | 6,461 | 7,196 | 8,665 | 10,135 | 11,605 | | | | | | | | | 2.8 | 8.1 |
| | Min | | 2,031 | 2,261 | 2,644 | 3,027 | 3,411 | 3,794 | 4,561 | 5,327 | 6,094 | | | | | | | | | | |
| | End | | 3,802 | 4,241 | 4,973 | 5,704 | 6,436 | 7,168 | 8,632 | 10,097 | 11,561 | | | | | | | | | | |
| G3x14 | Start | Inboard | 3,788 | 4,226 | 4,955 | 5,685 | 6,414 | 7,144 | 8,603 | 10,063 | 11,522 | | | | | | | | | 2.8 | 8.1 |
| | Min | | 2,013 | 2,241 | 2,621 | 3,001 | 3,381 | 3,761 | 4,521 | 5,281 | 6,042 | | | | | | | | | | |
| | End | | 3,775 | 4,211 | 4,938 | 5,665 | 6,392 | 7,119 | 8,574 | 10,028 | 11,483 | | | | | | | | | | |
| G3x16 | Start | Outboard | 5,065 | 5,647 | 6,617 | 7,586 | 8,556 | 9,526 | 11,466 | | | | | | | | | | | 2.8 | 6.2 |
| | Min | | 2,687 | 2,990 | 3,496 | 4,001 | 4,507 | 5,013 | 6,025 | | | | | | | | | | | | |
| | End | | 5,046 | 5,626 | 6,591 | 7,557 | 8,524 | 9,490 | 11,422 | | | | | | | | | | | | |
| G3x16 | Start | Inboard | 5,039 | 5,618 | 6,583 | 7,548 | 8,513 | 9,478 | 11,408 | | | | | | | | | | | 2.8 | 6.2 |
| | Min | | 2,669 | 2,970 | 3,473 | 3,975 | 4,478 | 4,980 | 5,985 | | | | | | | | | | | | |
| | End | | 5,022 | 5,599 | 6,560 | 7,522 | 8,484 | 9,445 | 11,369 | | | | | | | | | | | | |
| G3x20 | Start | Outboard | 8,087 | 9,009 | 10,546 | 12,083 | | | | | | | | | | | | | | 2.8 | 3.9 |
| | Min | | 4,271 | 4,751 | 5,552 | 6,354 | | | | | | | | | | | | | | | |
| | End | | 8,056 | 8,975 | 10,506 | 12,037 | | | | | | | | | | | | | | | |
| G3x20 | Start | Inboard | 8,066 | 8,985 | 10,518 | 12,051 | | | | | | | | | | | | | | 2.8 | 3.9 |
| | Min | | 4,253 | 4,732 | 5,530 | 6,327 | | | | | | | | | | | | | | | |
| | End | | 8,038 | 8,955 | 10,482 | 12,010 | | | | | | | | | | | | | | | |

Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G4x12 | Start | Outboard | 3,786 | 4,225 | 4,957 | 5,689 | 6,421 | 7,154 | 8,618 | 10,083 | 11,548 | 13,013 | 14,478 | 15,944 | 17,410 | 18,143 | 18,876 | 19,609 | 20,342 | 2.8 | 13.8 |
| | Min | | 2,020 | 2,250 | 2,632 | 3,014 | 3,396 | 3,779 | 4,543 | 5,308 | 6,073 | 6,837 | 7,602 | 8,367 | 9,132 | 9,514 | 9,897 | 10,279 | 10,662 | | |
| | End | | 3,770 | 4,208 | 4,937 | 5,666 | 6,395 | 7,124 | 8,582 | 10,041 | 11,500 | 12,959 | 14,418 | 15,878 | 17,338 | 18,067 | 18,797 | 19,528 | 20,258 | | |
| G4x12 | Start | Inboard | 3,732 | 4,166 | 4,888 | 5,610 | 6,332 | 7,055 | 8,499 | 9,944 | 11,389 | 12,835 | 14,280 | 15,726 | 17,172 | 17,895 | 18,619 | 19,342 | 20,065 | 2.8 | 13.8 |
| | Min | | 1,989 | 2,215 | 2,592 | 2,968 | 3,345 | 3,721 | 4,474 | 5,227 | 5,981 | 6,734 | 7,487 | 8,240 | 8,994 | 9,370 | 9,747 | 10,124 | 10,501 | | |
| | End | | 3,718 | 4,150 | 4,869 | 5,589 | 6,308 | 7,028 | 8,467 | 9,906 | 11,346 | 12,786 | 14,226 | 15,666 | 17,107 | 17,827 | 18,547 | 19,268 | 19,988 | | |
| G4x14 | Start | Outboard | 4,622 | 5,157 | 6,047 | 6,938 | 7,828 | 8,719 | 10,500 | 12,282 | 14,063 | 15,845 | 17,628 | 19,410 | 21,193 | 22,085 | 22,976 | 23,868 | 24,760 | 2.8 | 13.4 |
| | Min | | 2,462 | 2,741 | 3,205 | 3,670 | 4,135 | 4,600 | 5,530 | 6,459 | 7,389 | 8,319 | 9,249 | 10,179 | 11,110 | 11,575 | 12,040 | 12,505 | 12,970 | | |
| | End | | 4,603 | 5,135 | 6,022 | 6,909 | 7,796 | 8,682 | 10,456 | 12,231 | 14,005 | 15,780 | 17,555 | 19,330 | 21,105 | 21,993 | 22,881 | 23,769 | 24,657 | | |
| G4x14 | Start | Inboard | 4,570 | 5,099 | 5,979 | 6,860 | 7,741 | 8,622 | 10,384 | 12,146 | 13,909 | 15,672 | 17,435 | 19,198 | 20,962 | 21,844 | 22,725 | 23,607 | 24,490 | 2.8 | 13.4 |
| | Min | | 2,431 | 2,706 | 3,165 | 3,624 | 4,083 | 4,542 | 5,461 | 6,379 | 7,297 | 8,216 | 9,134 | 10,053 | 10,971 | 11,431 | 11,890 | 12,350 | 12,809 | | |
| | End | | 4,553 | 5,079 | 5,956 | 6,834 | 7,711 | 8,589 | 10,344 | 12,100 | 13,856 | 15,612 | 17,368 | 19,125 | 20,881 | 21,760 | 22,639 | 23,517 | 24,396 | | |
| G4x16 | Start | Outboard | 6,141 | 6,846 | 8,022 | 9,198 | 10,374 | 11,551 | 13,903 | 16,256 | 18,610 | 20,963 | 23,317 | | | | | | | 2.8 | 10.1 |
| | Min | | 3,259 | 3,627 | 4,241 | 4,855 | 5,468 | 6,082 | 7,310 | 8,537 | 9,765 | 10,992 | 12,220 | | | | | | | | |
| | End | | 6,115 | 6,818 | 7,989 | 9,160 | 10,331 | 11,503 | 13,846 | 16,189 | 18,532 | 20,876 | 23,220 | | | | | | | | |
| G4x16 | Start | Inboard | 6,091 | 6,791 | 7,958 | 9,125 | 10,292 | 11,459 | 13,793 | 16,128 | 18,463 | 20,798 | 23,133 | | | | | | | 2.8 | 10.1 |
| | Min | | 3,228 | 3,593 | 4,201 | 4,809 | 5,417 | 6,025 | 7,241 | 8,457 | 9,673 | 10,889 | 12,105 | | | | | | | | |
| | End | | 6,068 | 6,765 | 7,927 | 9,090 | 10,252 | 11,415 | 13,740 | 16,066 | 18,392 | 20,718 | 23,045 | | | | | | | | |
| G4x20 | Start | Outboard | 9,813 | 10,932 | 12,797 | 14,662 | 16,527 | 18,393 | 22,124 | | | | | | | | | | | 2.8 | 6.3 |
| | Min | | 5,185 | 5,769 | 6,742 | 7,714 | 8,687 | 9,660 | 11,605 | | | | | | | | | | | | |
| | End | | 9,772 | 10,887 | 12,744 | 14,601 | 16,459 | 18,316 | 22,032 | | | | | | | | | | | | |
| G4x20 | Start | Inboard | 9,769 | 10,883 | 12,740 | 14,597 | 16,454 | 18,312 | 22,027 | | | | | | | | | | | 2.8 | 6.3 |
| | Min | | 5,154 | 5,734 | 6,701 | 7,668 | 8,635 | 9,602 | 11,536 | | | | | | | | | | | | |
| | End | | 9,732 | 10,841 | 12,691 | 14,541 | 16,391 | 18,242 | 21,942 | | | | | | | | | | | | |
| G4x24 | Start | Outboard | 14,351 | 15,978 | 18,690 | 21,402 | 24,114 | | | | | | | | | | | | | 2.8 | 4.3 |
| | Min | | 7,558 | 8,406 | 9,819 | 11,233 | 12,647 | | | | | | | | | | | | | | |
| | End | | 14,292 | 15,912 | 18,613 | 21,313 | 24,014 | | | | | | | | | | | | | | |
| G4x24 | Start | Inboard | 14,314 | 15,938 | 18,643 | 21,348 | 24,054 | | | | | | | | | | | | | 2.8 | 4.3 |
| | Min | | 7,526 | 8,371 | 9,779 | 11,187 | 12,595 | | | | | | | | | | | | | | |
| | End | | 14,260 | 15,877 | 18,572 | 21,267 | 23,962 | | | | | | | | | | | | | | |
| G4x28 | Start | Outboard | 20,208 | 22,503 | | | | | | | | | | | | | | | | 2.8 | 3.1 |
| | Min | | 10,655 | 11,852 | | | | | | | | | | | | | | | | | |
| | End | | 20,124 | 22,409 | | | | | | | | | | | | | | | | | |
| G4x28 | Start | Inboard | 20,181 | 22,473 | | | | | | | | | | | | | | | | 2.8 | 3.1 |
| | Min | | 10,624 | 11,817 | | | | | | | | | | | | | | | | | |
| | End | | 20,104 | 22,387 | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G5x16 | Start | Outboard | 7,923 | 8,832 | 10,347 | 11,863 | 13,378 | 14,894 | 17,925 | 20,956 | 23,988 | 27,020 | 30,052 | 33,085 | 36,118 | 37,635 | 39,151 | 40,668 | 42,185 | 2.8 | 13.8 |
| | Min | | 4,199 | 4,673 | 5,463 | 6,254 | 7,044 | 7,834 | 9,414 | 10,995 | 12,575 | 14,156 | 15,737 | 17,317 | 18,898 | 19,689 | 20,479 | 21,270 | 22,060 | | |
| | End | | 7,893 | 8,799 | 10,308 | 11,818 | 13,327 | 14,837 | 17,857 | 20,877 | 23,897 | 26,918 | 29,938 | 32,960 | 35,981 | 37,492 | 39,003 | 40,514 | 42,025 | | |
| G5x16 | Start | Inboard | 7,799 | 8,694 | 10,187 | 11,679 | 13,171 | 14,664 | 17,649 | 20,635 | 23,621 | 26,607 | 29,593 | 32,580 | 35,567 | 37,061 | 38,555 | 40,049 | 41,542 | 2.8 | 13.8 |
| | Min | | 4,128 | 4,594 | 5,371 | 6,148 | 6,925 | 7,702 | 9,256 | 10,810 | 12,364 | 13,918 | 15,472 | 17,027 | 18,581 | 19,358 | 20,136 | 20,913 | 21,690 | | |
| | End | | 7,773 | 8,665 | 10,152 | 11,640 | 13,127 | 14,615 | 17,590 | 20,566 | 23,542 | 26,518 | 29,494 | 32,471 | 35,448 | 36,937 | 38,426 | 39,915 | 41,404 | | |
| G5x20 | Start | Outboard | 12,673 | 14,117 | 16,524 | 18,930 | 21,337 | 23,744 | 28,558 | 33,373 | 38,187 | 43,003 | 47,818 | 52,634 | | | | | | 2.8 | 11.3 |
| | Min | | 6,690 | 7,443 | 8,697 | 9,951 | 11,206 | 12,460 | 14,969 | 17,478 | 19,987 | 22,497 | 25,006 | 27,516 | | | | | | | |
| | End | | 12,625 | 14,064 | 16,461 | 18,859 | 21,256 | 23,654 | 28,450 | 33,246 | 38,042 | 42,839 | 47,637 | 52,434 | | | | | | | |
| G5x20 | Start | Inboard | 12,557 | 13,988 | 16,373 | 18,758 | 21,144 | 23,529 | 28,300 | 33,072 | 37,844 | 42,616 | 47,389 | 52,162 | | | | | | 2.8 | 11.3 |
| | Min | | 6,618 | 7,363 | 8,604 | 9,846 | 11,087 | 12,328 | 14,811 | 17,293 | 19,776 | 22,259 | 24,742 | 27,225 | | | | | | | |
| | End | | 12,515 | 13,941 | 16,318 | 18,696 | 21,073 | 23,450 | 28,206 | 32,961 | 37,717 | 42,473 | 47,230 | 51,987 | | | | | | | |
| G5x24 | Start | Outboard | 18,544 | 20,645 | 24,147 | 27,649 | 31,151 | 34,654 | 41,659 | 48,664 | 55,670 | | | | | | | | | 2.8 | 7.7 |
| | Min | | 9,757 | 10,852 | 12,677 | 14,502 | 16,326 | 18,151 | 21,801 | 25,450 | 29,100 | | | | | | | | | | |
| | End | | 18,473 | 20,567 | 24,055 | 27,544 | 31,033 | 34,522 | 41,501 | 48,480 | 55,459 | | | | | | | | | | |
| G5x24 | Start | Inboard | 18,437 | 20,527 | 24,009 | 27,491 | 30,974 | 34,457 | 41,423 | 48,389 | 55,356 | | | | | | | | | 2.8 | 7.7 |
| | Min | | 9,686 | 10,773 | 12,584 | 14,396 | 16,207 | 18,019 | 21,642 | 25,265 | 28,888 | | | | | | | | | | |
| | End | | 18,375 | 20,458 | 23,929 | 27,400 | 30,871 | 34,342 | 41,284 | 48,227 | 55,171 | | | | | | | | | | |
| G5x28 | Start | Outboard | 26,120 | 29,085 | 34,026 | 38,967 | 43,909 | 48,851 | | | | | | | | | | | | 2.8 | 5.5 |
| | Min | | 13,763 | 15,308 | 17,884 | 20,460 | 23,036 | 25,612 | | | | | | | | | | | | | |
| | End | | 26,021 | 28,974 | 33,897 | 38,820 | 43,743 | 48,666 | | | | | | | | | | | | | |
| G5x28 | Start | Inboard | 26,026 | 28,980 | 33,904 | 38,829 | 43,753 | 48,678 | | | | | | | | | | | | 2.8 | 5.5 |
| | Min | | 13,691 | 15,229 | 17,791 | 20,354 | 22,917 | 25,479 | | | | | | | | | | | | | |
| | End | | 25,939 | 28,883 | 33,791 | 38,699 | 43,607 | 48,515 | | | | | | | | | | | | | |
| G5x32 | Start | Outboard | 34,258 | 38,135 | 44,598 | 51,061 | | | | | | | | | | | | | | 2.8 | 4.2 |
| | Min | | 18,021 | 20,042 | 23,410 | 26,778 | | | | | | | | | | | | | | | |
| | End | | 34,128 | 37,990 | 44,429 | 50,867 | | | | | | | | | | | | | | | |
| G5x32 | Start | Inboard | 34,177 | 38,046 | 44,494 | 50,942 | | | | | | | | | | | | | | 2.8 | 4.2 |
| | Min | | 17,950 | 19,963 | 23,318 | 26,673 | | | | | | | | | | | | | | | |
| | End | | 34,063 | 37,919 | 44,345 | 50,772 | | | | | | | | | | | | | | | |
| G5x36 | Start | Outboard | 43,493 | 48,405 | | | | | | | | | | | | | | | | 2.8 | 3.3 |
| | Min | | 22,851 | 25,410 | | | | | | | | | | | | | | | | | |
| | End | | 43,328 | 48,221 | | | | | | | | | | | | | | | | | |
| G5x36 | Start | Inboard | 43,427 | 48,333 | | | | | | | | | | | | | | | | 2.8 | 3.3 |
| | Min | | 22,779 | 25,331 | | | | | | | | | | | | | | | | | |
| | End | | 43,282 | 48,171 | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|--------|--------|--------|---------|--------|--------|--------|--------|---------|--------|--------|---------|---------|--------|--------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G7x20 | Start | Outboard | 15,458 | 17,224 | 20,167 | 23,111 | 26,055 | 28,999 | 34,887 | 40,776 | 46,666 | 52,556 | 58,447 | 64,339 | 70,231 | 73,177 | 76,123 | 79,070 | 82,016 | 2.8 | 13.8 |
| | Min | | 8,178 | 9,099 | 10,635 | 12,170 | 13,706 | 15,242 | 18,313 | 21,385 | 24,456 | 27,528 | 30,600 | 33,672 | 36,745 | 38,281 | 39,817 | 41,353 | 42,890 | | |
| | End | | 15,396 | 17,156 | 20,087 | 23,020 | 25,952 | 28,884 | 34,749 | 40,615 | 46,481 | 52,348 | 58,216 | 64,084 | 69,953 | 72,887 | 75,822 | 78,757 | 81,692 | | |
| G7x20 | Start | Inboard | 15,272 | 17,017 | 19,926 | 22,836 | 25,745 | 28,655 | 34,475 | 40,295 | 46,116 | 51,938 | 57,760 | 63,583 | 69,406 | 72,318 | 75,230 | 78,143 | 81,055 | 2.8 | 13.8 |
| | Min | | 8,067 | 8,976 | 10,491 | 12,006 | 13,521 | 15,036 | 18,066 | 21,097 | 24,127 | 27,158 | 30,189 | 33,220 | 36,251 | 37,767 | 39,282 | 40,798 | 42,314 | | |
| | End | | 15,218 | 16,957 | 19,857 | 22,756 | 25,655 | 28,555 | 34,354 | 40,154 | 45,955 | 51,756 | 57,558 | 63,360 | 69,163 | 72,065 | 74,967 | 77,869 | 80,771 | | |
| G7x24 | Start | Outboard | 22,665 | 25,239 | 29,528 | 33,818 | 38,107 | 42,397 | 50,977 | 59,558 | 68,139 | 76,721 | 85,303 | 93,887 | 102,470 | 106,763 | | | | 2.8 | 12.3 |
| | Min | | 11,947 | 13,289 | 15,525 | 17,762 | 19,998 | 22,235 | 26,708 | 31,181 | 35,654 | 40,128 | 44,602 | 49,076 | 53,550 | 55,787 | | | | | |
| | End | | 22,576 | 25,139 | 29,411 | 33,684 | 37,956 | 42,229 | 50,775 | 59,322 | 67,869 | 76,417 | 84,966 | 93,515 | 102,065 | 106,340 | | | | | |
| G7x24 | Start | Inboard | 22,492 | 25,047 | 29,304 | 33,561 | 37,819 | 42,077 | 50,593 | 59,110 | 67,628 | 76,146 | 84,664 | 93,184 | 101,704 | 105,964 | | | | 2.8 | 12.3 |
| | Min | | 11,836 | 13,166 | 15,381 | 17,597 | 19,813 | 22,029 | 26,461 | 30,893 | 35,325 | 39,758 | 44,191 | 48,623 | 53,056 | 55,273 | | | | | |
| | End | | 22,414 | 24,959 | 29,201 | 33,444 | 37,687 | 41,930 | 50,416 | 58,903 | 67,391 | 75,879 | 84,368 | 92,858 | 101,348 | 105,593 | | | | | |
| G7x28 | Start | Outboard | 31,977 | 35,612 | 41,669 | 47,727 | 53,785 | 59,843 | 71,961 | 84,080 | 96,200 | 108,321 | | | | | | | | 2.8 | 8.7 |
| | Min | | 16,871 | 18,766 | 21,926 | 25,086 | 28,245 | 31,405 | 37,725 | 44,045 | 50,365 | 56,686 | | | | | | | | | |
| | End | | 31,851 | 35,471 | 41,504 | 47,538 | 53,572 | 59,606 | 71,676 | 83,747 | 95,819 | 107,892 | | | | | | | | | |
| G7x28 | Start | Inboard | 31,821 | 35,438 | 41,467 | 47,496 | 53,525 | 59,555 | 71,615 | 83,676 | 95,738 | 107,802 | | | | | | | | 2.8 | 8.7 |
| | Min | | 16,760 | 18,643 | 21,782 | 24,921 | 28,060 | 31,200 | 37,478 | 43,757 | 50,036 | 56,316 | | | | | | | | | |
| | End | | 31,709 | 35,314 | 41,321 | 47,329 | 53,338 | 59,346 | 71,364 | 83,383 | 95,403 | 107,424 | | | | | | | | | |
| G7x32 | Start | Outboard | 41,974 | 46,730 | 54,657 | 62,584 | 70,511 | 78,439 | 94,296 | | | | | | | | | | | 2.8 | 6.6 |
| | Min | | 22,105 | 24,585 | 28,718 | 32,852 | 36,985 | 41,119 | 49,386 | | | | | | | | | | | | |
| | End | | 41,808 | 46,545 | 54,441 | 62,336 | 70,232 | 78,129 | 93,922 | | | | | | | | | | | | |
| G7x32 | Start | Inboard | 41,836 | 46,576 | 54,478 | 62,379 | 70,281 | 78,184 | 93,989 | | | | | | | | | | | 2.8 | 6.6 |
| | Min | | 21,994 | 24,461 | 28,574 | 32,687 | 36,800 | 40,913 | 49,140 | | | | | | | | | | | | |
| | End | | 41,689 | 46,413 | 54,287 | 62,161 | 70,035 | 77,910 | 93,660 | | | | | | | | | | | | |
| G7x36 | Start | Outboard | 53,320 | 59,347 | 69,393 | 79,439 | 89,485 | 99,532 | | | | | | | | | | | | 2.8 | 5.2 |
| | Min | | 28,040 | 31,183 | 36,420 | 41,657 | 46,895 | 52,132 | | | | | | | | | | | | | |
| | End | | 53,109 | 59,112 | 69,118 | 79,124 | 89,131 | 99,138 | | | | | | | | | | | | | |
| G7x36 | Start | Inboard | 53,201 | 59,216 | 69,240 | 79,264 | 89,289 | 99,314 | | | | | | | | | | | | 2.8 | 5.2 |
| | Min | | 27,929 | 31,059 | 36,276 | 41,493 | 46,710 | 51,927 | | | | | | | | | | | | | |
| | End | | 53,015 | 59,008 | 68,997 | 78,987 | 88,976 | 98,966 | | | | | | | | | | | | | |
| G7x228 | Start | Outboard | 63,741 | 70,986 | 83,062 | 95,138 | 107,214 | | | | | | | | | | | | | 2.8 | 4.3 |
| | Min | | 33,630 | 37,410 | 43,708 | 50,007 | 56,306 | | | | | | | | | | | | | | |
| | End | | 63,489 | 70,705 | 82,733 | 94,761 | 106,790 | | | | | | | | | | | | | | |
| G7x228 | Start | Inboard | 63,855 | 71,113 | 83,210 | 95,308 | 107,406 | | | | | | | | | | | | | 2.8 | 4.3 |
| | Min | | 33,630 | 37,410 | 43,708 | 50,007 | 56,306 | | | | | | | | | | | | | | |
| | End | | 63,631 | 70,864 | 82,919 | 94,974 | 107,030 | | | | | | | | | | | | | | |

Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G8x24 | Start | Outboard | 26,760 | 29,800 | 34,866 | 39,932 | 44,999 | 50,065 | 60,199 | 70,334 | 80,469 | 90,605 | 100,742 | 110,879 | 121,018 | 126,087 | 131,157 | 136,227 | 141,297 | 2.8 | 13.8 |
| | Min | | 14,106 | 15,691 | 18,332 | 20,973 | 23,614 | 26,255 | 31,538 | 36,820 | 42,103 | 47,386 | 52,669 | 57,953 | 63,237 | 65,878 | 68,520 | 71,162 | 73,804 | | |
| | End | | 26,661 | 29,689 | 34,736 | 39,783 | 44,831 | 49,879 | 59,975 | 70,071 | 80,169 | 90,267 | 100,366 | 110,466 | 120,567 | 125,617 | 130,668 | 135,719 | 140,770 | | |
| G8x24 | Start | Inboard | 26,429 | 29,431 | 34,436 | 39,441 | 44,446 | 49,451 | 59,463 | 69,475 | 79,488 | 89,501 | 99,515 | 109,531 | 119,546 | 124,555 | 129,563 | 134,572 | 139,581 | 2.8 | 13.8 |
| | Min | | 13,910 | 15,473 | 18,077 | 20,682 | 23,287 | 25,891 | 31,101 | 36,311 | 41,521 | 46,731 | 51,942 | 57,152 | 62,363 | 64,969 | 67,574 | 70,180 | 72,786 | | |
| | End | | 26,342 | 29,335 | 34,324 | 39,312 | 44,301 | 49,290 | 59,269 | 69,248 | 79,228 | 89,209 | 99,191 | 109,173 | 119,157 | 124,149 | 129,141 | 134,133 | 139,126 | | |
| G8x28 | Start | Outboard | 37,786 | 42,083 | 49,243 | 56,404 | 63,565 | 70,727 | 85,051 | 99,376 | 113,703 | 128,031 | 142,361 | 156,692 | 171,024 | | | | | 2.8 | 11.9 |
| | Min | | 19,937 | 22,177 | 25,912 | 29,646 | 33,381 | 37,116 | 44,585 | 52,055 | 59,526 | 66,996 | 74,467 | 81,939 | 89,411 | | | | | | |
| | End | | 37,646 | 41,926 | 49,060 | 56,194 | 63,328 | 70,463 | 84,734 | 99,006 | 113,279 | 127,554 | 141,830 | 156,108 | 170,387 | | | | | | |
| G8x28 | Start | Inboard | 37,474 | 41,735 | 48,838 | 55,941 | 63,045 | 70,149 | 84,358 | 98,568 | 112,779 | 126,992 | 141,206 | 155,422 | 169,639 | | | | | 2.8 | 11.9 |
| | Min | | 19,740 | 21,959 | 25,657 | 29,355 | 33,053 | 36,752 | 44,149 | 51,546 | 58,944 | 66,341 | 73,740 | 81,138 | 88,537 | | | | | | |
| | End | | 37,352 | 41,599 | 48,679 | 55,759 | 62,839 | 69,920 | 84,082 | 98,246 | 112,412 | 126,578 | 140,746 | 154,915 | 169,086 | | | | | | |
| G8x32 | Start | Outboard | 49,629 | 55,254 | 64,629 | 74,004 | 83,379 | 92,755 | 111,509 | 130,263 | 149,020 | 167,777 | | | | | | | | 2.8 | 9.0 |
| | Min | | 26,136 | 29,069 | 33,957 | 38,845 | 43,733 | 48,621 | 58,398 | 68,175 | 77,952 | 87,730 | | | | | | | | | |
| | End | | 49,444 | 55,048 | 64,388 | 73,728 | 83,069 | 92,410 | 111,093 | 129,778 | 148,464 | 167,152 | | | | | | | | | |
| G8x32 | Start | Inboard | 49,337 | 54,929 | 64,250 | 73,572 | 82,893 | 92,216 | 110,861 | 129,508 | 148,157 | 166,807 | | | | | | | | 2.8 | 9.0 |
| | Min | | 25,939 | 28,850 | 33,702 | 38,554 | 43,405 | 48,257 | 57,961 | 67,666 | 77,370 | 87,076 | | | | | | | | | |
| | End | | 49,176 | 54,750 | 64,041 | 73,332 | 82,623 | 91,915 | 110,500 | 129,086 | 147,674 | 166,263 | | | | | | | | | |
| G8x36 | Start | Outboard | 63,069 | 70,200 | 82,085 | 93,970 | 105,856 | 117,742 | 141,516 | 165,291 | | | | | | | | | | 2.8 | 7.1 |
| | Min | | 33,166 | 36,883 | 43,079 | 49,274 | 55,470 | 61,666 | 74,057 | 86,450 | | | | | | | | | | | |
| | End | | 62,834 | 69,938 | 81,779 | 93,620 | 105,461 | 117,303 | 140,988 | 164,675 | | | | | | | | | | | |
| G8x36 | Start | Inboard | 62,800 | 69,901 | 81,736 | 93,572 | 105,409 | 117,245 | 140,920 | 164,597 | | | | | | | | | | 2.8 | 7.1 |
| | Min | | 32,970 | 36,665 | 42,824 | 48,983 | 55,142 | 61,302 | 73,621 | 85,940 | | | | | | | | | | | |
| | End | | 62,595 | 69,673 | 81,470 | 93,267 | 105,065 | 116,863 | 140,461 | 164,060 | | | | | | | | | | | |
| G8x40 | Start | Outboard | 78,106 | 86,920 | 101,611 | 116,302 | 130,994 | 145,686 | 175,072 | | | | | | | | | | | 2.8 | 5.8 |
| | Min | | 41,028 | 45,622 | 53,279 | 60,936 | 68,593 | 76,250 | 91,564 | | | | | | | | | | | | |
| | End | | 77,815 | 86,596 | 101,232 | 115,869 | 130,506 | 145,143 | 174,420 | | | | | | | | | | | | |
| G8x40 | Start | Inboard | 77,863 | 86,650 | 101,296 | 115,943 | 130,590 | 145,238 | 174,534 | | | | | | | | | | | 2.8 | 5.8 |
| | Min | | 40,831 | 45,404 | 53,024 | 60,645 | 68,265 | 75,886 | 91,128 | | | | | | | | | | | | |
| | End | | 77,609 | 86,368 | 100,966 | 115,565 | 130,164 | 144,764 | 173,965 | | | | | | | | | | | | |
| G8x232 | Start | Outboard | 98,881 | 110,088 | 128,768 | 147,449 | 166,130 | | | | | | | | | | | | | 2.8 | 4.5 |
| | Min | | 52,075 | 57,919 | 67,658 | 77,398 | 87,138 | | | | | | | | | | | | | | |
| | End | | 98,512 | 109,678 | 128,288 | 146,899 | 165,511 | | | | | | | | | | | | | | |
| G8x232 | Start | Inboard | 99,052 | 110,279 | 128,991 | 147,703 | 166,417 | | | | | | | | | | | | | 2.8 | 4.5 |
| | Min | | 52,075 | 57,919 | 67,658 | 77,398 | 87,138 | | | | | | | | | | | | | | |
| | End | | 98,729 | 109,919 | 128,570 | 147,222 | 165,874 | | | | | | | | | | | | | | |
| G8x236 | Start | Outboard | 125,761 | 139,980 | 163,680 | | | | | | | | | | | | | | | 2.8 | 3.6 |
| | Min | | 66,136 | 73,549 | 85,903 | | | | | | | | | | | | | | | | |
| | End | | 125,292 | 139,458 | 163,070 | | | | | | | | | | | | | | | | |
| G8x236 | Start | Inboard | 125,978 | 140,222 | 163,963 | | | | | | | | | | | | | | | 2.8 | 3.6 |
| | Min | | 66,136 | 73,549 | 85,903 | | | | | | | | | | | | | | | | |
| | End | | 125,567 | 139,765 | 163,428 | | | | | | | | | | | | | | | | |

Torque - Pneumatic

Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G10x28 | Start | Outboard | 49,332 | 54,945 | 64,300 | 73,655 | 83,011 | 92,368 | 111,082 | 129,798 | 148,516 | 167,235 | 185,957 | 204,680 | 223,405 | 232,768 | 242,132 | 251,496 | 260,861 | 2.8 | 13.8 |
| | Min | | 26,049 | 28,978 | 33,859 | 38,740 | 43,622 | 48,503 | 58,266 | 68,030 | 77,794 | 87,559 | 97,324 | 107,090 | 116,856 | 121,739 | 126,622 | 131,506 | 136,389 | | |
| | End | | 49,150 | 54,743 | 64,063 | 73,384 | 82,706 | 92,028 | 110,673 | 129,320 | 147,969 | 166,620 | 185,273 | 203,927 | 222,583 | 231,912 | 241,242 | 250,571 | 259,901 | | |
| G10x28 | Start | Inboard | 48,721 | 54,266 | 63,508 | 72,750 | 81,993 | 91,237 | 109,725 | 128,216 | 146,708 | 165,202 | 183,698 | 202,195 | 220,695 | 229,945 | 239,196 | 248,447 | 257,699 | 2.8 | 13.8 |
| | Min | | 25,689 | 28,577 | 33,392 | 38,206 | 43,021 | 47,835 | 57,465 | 67,095 | 76,726 | 86,357 | 95,989 | 105,621 | 115,253 | 120,070 | 124,886 | 129,703 | 134,520 | | |
| | End | | 48,562 | 54,089 | 63,301 | 72,513 | 81,726 | 90,940 | 109,368 | 127,798 | 146,230 | 164,664 | 183,099 | 201,537 | 219,976 | 229,196 | 238,417 | 247,638 | 256,860 | | |
| G10x32 | Start | Outboard | 64,885 | 72,243 | 84,506 | 96,770 | 109,034 | 121,299 | 145,830 | 170,363 | 194,898 | 219,436 | 243,975 | 268,517 | 293,060 | 305,333 | 317,606 | 329,879 | 342,153 | 2.8 | 13.8 |
| | Min | | 34,194 | 38,032 | 44,429 | 50,826 | 57,222 | 63,619 | 76,414 | 89,209 | 102,005 | 114,801 | 127,597 | 140,395 | 153,192 | 159,591 | 165,991 | 172,390 | 178,790 | | |
| | End | | 64,647 | 71,977 | 84,196 | 96,414 | 108,633 | 120,853 | 145,294 | 169,737 | 194,182 | 218,629 | 243,078 | 267,529 | 291,982 | 304,209 | 316,437 | 328,666 | 340,895 | | |
| G10x32 | Start | Inboard | 64,300 | 71,593 | 83,748 | 95,904 | 108,060 | 120,217 | 144,532 | 168,849 | 193,168 | 217,489 | 241,813 | 266,138 | 290,466 | 302,630 | 314,795 | 326,961 | 339,127 | 2.8 | 13.8 |
| | Min | | 33,834 | 37,632 | 43,961 | 50,291 | 56,622 | 62,952 | 75,613 | 88,274 | 100,936 | 113,599 | 126,262 | 138,926 | 151,590 | 157,922 | 164,255 | 170,587 | 176,920 | | |
| | End | | 64,091 | 71,360 | 83,475 | 95,591 | 107,708 | 119,825 | 144,061 | 168,299 | 192,539 | 216,781 | 241,025 | 265,271 | 289,519 | 301,644 | 313,770 | 325,896 | 338,022 | | |
| G10x36 | Start | Outboard | 82,537 | 91,872 | 107,432 | 122,992 | 138,553 | 154,115 | 185,240 | 216,367 | 247,496 | 278,628 | 309,762 | 340,899 | | | | | | 2.8 | 10.9 |
| | Min | | 43,431 | 48,300 | 56,414 | 64,529 | 72,644 | 80,758 | 96,989 | 113,220 | 129,451 | 145,683 | 161,916 | 178,149 | | | | | | | |
| | End | | 82,233 | 91,534 | 107,037 | 122,540 | 138,044 | 153,548 | 184,558 | 215,571 | 246,586 | 277,603 | 308,623 | 339,645 | | | | | | | |
| G10x36 | Start | Inboard | 81,980 | 91,255 | 106,712 | 122,170 | 137,628 | 153,087 | 184,007 | 214,929 | 245,853 | 276,780 | 307,709 | 338,641 | | | | | | 2.8 | 10.9 |
| | Min | | 43,071 | 47,899 | 55,947 | 63,995 | 72,043 | 80,091 | 96,188 | 112,285 | 128,383 | 144,482 | 160,581 | 176,680 | | | | | | | |
| | End | | 81,713 | 90,957 | 106,364 | 121,772 | 137,180 | 152,588 | 183,408 | 214,229 | 245,053 | 275,879 | 306,707 | 337,538 | | | | | | | |
| G10x40 | Start | Outboard | 102,285 | 113,832 | 133,077 | 152,322 | 171,568 | 190,815 | 229,311 | 267,809 | 306,309 | 344,813 | | | | | | | | 2.8 | 8.8 |
| | Min | | 53,760 | 59,781 | 69,815 | 79,850 | 89,885 | 99,920 | 119,991 | 140,062 | 160,134 | 180,206 | | | | | | | | | |
| | End | | 101,909 | 113,413 | 132,587 | 151,762 | 170,937 | 190,113 | 228,467 | 266,824 | 305,183 | 343,544 | | | | | | | | | |
| G10x40 | Start | Inboard | 101,762 | 113,251 | 132,399 | 151,548 | 170,698 | 189,849 | 228,151 | 266,457 | 304,764 | 343,075 | | | | | | | | 2.8 | 8.8 |
| | Min | | 53,400 | 59,380 | 69,348 | 79,316 | 89,284 | 99,252 | 119,189 | 139,127 | 159,066 | 179,005 | | | | | | | | | |
| | End | | 101,431 | 112,882 | 131,968 | 151,055 | 170,142 | 189,230 | 227,408 | 265,589 | 303,772 | 341,957 | | | | | | | | | |
| G10x232 | Start | Outboard | 129,079 | 143,717 | 168,115 | 192,514 | 216,915 | 241,316 | 290,122 | 338,931 | | | | | | | | | | 2.8 | 6.9 |
| | Min | | 68,028 | 75,664 | 88,390 | 101,117 | 113,844 | 126,571 | 152,027 | 177,483 | | | | | | | | | | | |
| | End | | 128,604 | 143,188 | 167,497 | 191,806 | 216,117 | 240,428 | 289,054 | 337,685 | | | | | | | | | | | |
| G10x232 | Start | Inboard | 129,294 | 143,956 | 168,395 | 192,835 | 217,276 | 241,718 | 290,605 | 339,496 | | | | | | | | | | 2.8 | 6.9 |
| | Min | | 68,028 | 75,664 | 88,390 | 101,117 | 113,844 | 126,571 | 152,027 | 177,483 | | | | | | | | | | | |
| | End | | 128,872 | 143,487 | 167,847 | 192,207 | 216,568 | 240,930 | 289,658 | 338,390 | | | | | | | | | | | |
| G10x236 | Start | Outboard | 164,381 | 182,975 | 213,966 | 244,959 | 275,953 | 306,948 | | | | | | | | | | | | 2.8 | 5.5 |
| | Min | | 86,502 | 96,199 | 112,361 | 128,524 | 144,686 | 160,849 | | | | | | | | | | | | | |
| | End | | 163,776 | 182,302 | 213,179 | 244,058 | 274,938 | 305,819 | | | | | | | | | | | | | |
| G10x236 | Start | Inboard | 164,655 | 183,280 | 214,323 | 245,367 | 276,412 | 307,459 | | | | | | | | | | | | 2.8 | 5.5 |
| | Min | | 86,502 | 96,199 | 112,361 | 128,524 | 144,686 | 160,849 | | | | | | | | | | | | | |
| | End | | 164,118 | 182,683 | 213,625 | 244,568 | 275,512 | 306,457 | | | | | | | | | | | | | |
| G10x240 | Start | Outboard | 203,878 | 226,895 | 265,256 | 303,619 | 341,983 | | | | | | | | | | | | | 2.8 | 4.4 |
| | Min | | 107,160 | 119,161 | 139,164 | 159,166 | 179,169 | | | | | | | | | | | | | | |
| | End | | 203,128 | 226,060 | 264,280 | 302,502 | 340,725 | | | | | | | | | | | | | | |
| G10x240 | Start | Inboard | 204,218 | 227,272 | 265,698 | 304,124 | 342,552 | | | | | | | | | | | | | 2.8 | 4.4 |
| | Min | | 107,160 | 119,161 | 139,164 | 159,166 | 179,169 | | | | | | | | | | | | | | |
| | End | | 203,553 | 226,532 | 264,832 | 303,134 | 341,437 | | | | | | | | | | | | | | |

Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|----------|------|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G13x40 | Start | Outboard | 131,089 | 145,892 | 170,565 | 195,239 | 219,914 | 244,590 | 293,943 | 343,300 | 392,661 | 442,024 | 491,392 | 540,762 | 590,136 | 614,824 | 639,513 | 664,203 | 688,893 | 2.8 | 13.8 |
| | Min | | 68,927 | 76,647 | 89,515 | 102,383 | 115,251 | 128,119 | 153,857 | 179,595 | 205,334 | 231,074 | 256,815 | 282,557 | 308,299 | 321,171 | 334,043 | 346,915 | 359,787 | | |
| | End | | 130,601 | 145,349 | 169,930 | 194,512 | 219,095 | 243,679 | 292,849 | 342,022 | 391,199 | 440,379 | 489,562 | 538,748 | 587,938 | 612,534 | 637,131 | 661,729 | 686,328 | | |
| G13x40 | Start | Inboard | 129,920 | 144,594 | 169,051 | 193,509 | 217,968 | 242,428 | 291,350 | 340,276 | 389,204 | 438,136 | 487,072 | 536,011 | 584,953 | 609,425 | 633,898 | 658,372 | 682,847 | 2.8 | 13.8 |
| | Min | | 68,224 | 75,867 | 88,604 | 101,342 | 114,080 | 126,819 | 152,296 | 177,774 | 203,253 | 228,732 | 254,213 | 279,695 | 305,177 | 317,919 | 330,660 | 343,402 | 356,144 | | |
| | End | | 129,480 | 144,104 | 168,478 | 192,853 | 217,229 | 241,606 | 290,363 | 339,122 | 387,885 | 436,651 | 485,421 | 534,193 | 582,970 | 607,359 | 631,749 | 656,140 | 680,532 | | |
| G13x44 | Start | Outboard | 159,172 | 177,119 | 207,030 | 236,943 | 266,857 | 296,771 | 356,603 | 416,438 | 476,277 | 536,120 | 595,967 | 655,817 | | | | | | 2.8 | 11.4 |
| | Min | | 83,616 | 92,974 | 108,572 | 124,170 | 139,768 | 155,367 | 186,564 | 217,763 | 248,962 | 280,163 | 311,364 | 342,567 | | | | | | | |
| | End | | 158,579 | 176,459 | 206,260 | 236,061 | 265,863 | 295,666 | 355,275 | 414,888 | 474,504 | 534,124 | 593,747 | 653,375 | | | | | | | |
| G13x44 | Start | Inboard | 158,043 | 175,864 | 205,567 | 235,271 | 264,976 | 294,682 | 354,097 | 413,515 | 472,937 | 532,363 | 591,792 | 651,225 | | | | | | 2.8 | 11.4 |
| | Min | | 82,913 | 92,194 | 107,661 | 123,129 | 138,597 | 154,066 | 185,003 | 215,941 | 246,881 | 277,821 | 308,762 | 339,705 | | | | | | | |
| | End | | 157,507 | 175,268 | 204,870 | 234,474 | 264,078 | 293,683 | 352,896 | 412,113 | 471,334 | 530,558 | 589,786 | 649,017 | | | | | | | |
| G13x48 | Start | Outboard | 189,967 | 211,357 | 247,007 | 282,658 | 318,311 | 353,964 | 425,274 | 496,588 | 567,906 | 639,228 | 710,554 | | | | | | | 2.8 | 9.7 |
| | Min | | 99,713 | 110,866 | 129,454 | 148,042 | 166,631 | 185,220 | 222,398 | 259,578 | 296,758 | 333,940 | 371,123 | | | | | | | | |
| | End | | 189,259 | 210,570 | 246,087 | 281,606 | 317,126 | 352,646 | 423,691 | 494,739 | 565,792 | 636,848 | 707,908 | | | | | | | | |
| G13x48 | Start | Inboard | 188,880 | 210,150 | 245,599 | 281,050 | 316,502 | 351,955 | 422,864 | 493,777 | 564,694 | 635,614 | 706,539 | | | | | | | 2.8 | 9.7 |
| | Min | | 99,010 | 110,085 | 128,543 | 147,001 | 165,460 | 183,919 | 220,837 | 257,756 | 294,677 | 331,598 | 368,521 | | | | | | | | |
| | End | | 188,240 | 209,437 | 244,767 | 280,098 | 315,429 | 350,762 | 421,430 | 492,103 | 562,779 | 633,460 | 704,144 | | | | | | | | |
| G13x52 | Start | Outboard | 223,459 | 248,592 | 290,481 | 332,371 | 374,262 | 416,154 | 499,941 | 583,733 | 667,529 | | | | | | | | | 2.8 | 8.3 |
| | Min | | 117,215 | 130,318 | 152,157 | 173,996 | 195,835 | 217,674 | 261,354 | 305,035 | 348,717 | | | | | | | | | | |
| | End | | 222,627 | 247,666 | 289,399 | 331,133 | 372,868 | 414,604 | 498,080 | 581,559 | 665,043 | | | | | | | | | | |
| G13x52 | Start | Inboard | 222,419 | 247,437 | 289,134 | 330,832 | 372,531 | 414,231 | 497,635 | 581,043 | 664,455 | | | | | | | | | 2.8 | 8.3 |
| | Min | | 116,513 | 129,538 | 151,246 | 172,955 | 194,664 | 216,374 | 259,793 | 303,214 | 346,636 | | | | | | | | | | |
| | End | | 221,665 | 246,598 | 288,154 | 329,710 | 371,268 | 412,827 | 495,948 | 579,073 | 662,202 | | | | | | | | | | |

Torque - Pneumatic Double-Acting Actuator

| Actuator Model | Metric Unit | Stroke Direction | Operating Pressure, barg | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---|---|----|----|----|------|----|------|------------|----------|-----|
| | | | 2.7 | 3 | 3.5 | 4 | 4.5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | |
| G13x240 | Start | Outboard | 260,828 | 290,285 | 339,382 | 388,480 | 437,580 | 486,681 | 584,889 | 683,103 | | | | | | | | | | 2.8 | 6.9 |
| | Min | | 137,151 | 152,514 | 178,119 | 203,725 | 229,331 | 254,938 | 306,152 | 357,369 | | | | | | | | | | | |
| | End | | 259,857 | 289,204 | 338,118 | 387,033 | 435,950 | 484,869 | 582,711 | 680,560 | | | | | | | | | | | |
| G13x240 | Start | Inboard | 261,191 | 290,689 | 339,854 | 389,020 | 438,188 | 487,358 | 585,702 | 684,053 | | | | | | | | | | 2.8 | 6.9 |
| | Min | | 137,151 | 152,514 | 178,119 | 203,725 | 229,331 | 254,938 | 306,152 | 357,369 | | | | | | | | | | | |
| | End | | 260,306 | 289,704 | 338,702 | 387,701 | 436,703 | 485,706 | 583,717 | 681,734 | | | | | | | | | | | |
| G13x244 | Start | Outboard | 316,995 | 352,739 | 412,312 | 471,888 | 531,465 | 591,044 | 710,208 | | | | | | | | | | | 2.8 | 5.7 |
| | Min | | 166,529 | 185,168 | 216,233 | 247,299 | 278,365 | 309,432 | 371,567 | | | | | | | | | | | | |
| | End | | 315,815 | 351,425 | 410,777 | 470,131 | 529,486 | 588,843 | 707,563 | | | | | | | | | | | | |
| G13x244 | Start | Inboard | 317,436 | 353,229 | 412,886 | 472,544 | 532,204 | 591,866 | 711,195 | | | | | | | | | | | 2.8 | 5.7 |
| | Min | | 166,529 | 185,168 | 216,233 | 247,299 | 278,365 | 309,432 | 371,567 | | | | | | | | | | | | |
| | End | | 316,360 | 352,032 | 411,486 | 470,942 | 530,400 | 589,859 | 708,784 | | | | | | | | | | | | |
| G13x248 | Start | Outboard | 378,585 | 421,214 | 492,265 | 563,319 | 634,374 | 705,431 | | | | | | | | | | | | 2.8 | 4.8 |
| | Min | | 198,723 | 220,951 | 257,997 | 295,043 | 332,091 | 369,138 | | | | | | | | | | | | | |
| | End | | 377,175 | 419,646 | 490,432 | 561,221 | 632,012 | 702,804 | | | | | | | | | | | | | |
| G13x248 | Start | Inboard | 379,111 | 421,800 | 492,950 | 564,102 | 635,256 | 706,412 | | | | | | | | | | | | 2.8 | 4.8 |
| | Min | | 198,723 | 220,951 | 257,997 | 295,043 | 332,091 | 369,138 | | | | | | | | | | | | | |
| | End | | 377,826 | 420,370 | 491,279 | 562,189 | 633,102 | 704,017 | | | | | | | | | | | | | |
| G13x252 | Start | Outboard | 445,570 | 495,685 | 579,213 | 662,743 | | | | | | | | | | | | | | 2.8 | 4.1 |
| | Min | | 233,728 | 259,856 | 303,403 | 346,951 | | | | | | | | | | | | | | | |
| | End | | 443,910 | 493,839 | 577,056 | 660,275 | | | | | | | | | | | | | | | |
| G13x252 | Start | Inboard | 446,189 | 496,374 | 580,018 | 663,665 | | | | | | | | | | | | | | 2.8 | 4.1 |
| | Min | | 233,728 | 259,856 | 303,403 | 346,951 | | | | | | | | | | | | | | | |
| | End | | 444,676 | 494,692 | 578,052 | 661,415 | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | |
|----------------|-------------|------------------|--------------------------|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | 13.5 | | | 14 | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | |
| G01x08-SR0 | Start | 2,748 | | | | | | | | | | | | | 1,491 | 1,654 | 1,818 | 1,981 | 2,145 | 2,309 | 2,472 | 11.7 | 13.2 | |
| | Min | 1,233 | | | | | | | | | | | | | 579 | 667 | 754 | 841 | 928 | 1,014 | 1,100 | | | |
| | End | 1,971 | | | | | | | | | | | | | 723 | 885 | 1,048 | 1,210 | 1,373 | 1,536 | 1,698 | | | |
| G01x09-SR0 | Start | 2,741 | | | | | | | | | | | | 1,642 | 2,059 | 2,476 | 2,685 | 2,893 | 3,102 | 3,311 | 3,519 | 3,728 | 9.1 | 13.8 |
| | Min | 1,232 | | | | | | | | | | | | 661 | 883 | 1,103 | 1,213 | 1,323 | 1,432 | 1,541 | 1,651 | 1,760 | | |
| | End | 1,964 | | | | | | | | | | | | 873 | 1,287 | 1,702 | 1,910 | 2,117 | 2,325 | 2,532 | 2,740 | 2,947 | | |
| G01x10-SR0 | Start | 2,733 | | | | | | | | | 1,755 | 2,309 | 2,862 | 3,416 | 3,970 | 4,247 | 4,524 | | | | | | 6.9 | 11.4 |
| | Min | 1,230 | | | | | | | | | 723 | 1,016 | 1,307 | 1,597 | 1,887 | 2,032 | 2,176 | | | | | | | |
| | End | 1,956 | | | | | | | | | 985 | 1,536 | 2,086 | 2,637 | 3,187 | 3,463 | 3,738 | | | | | | | |
| G01x12-SR0 | Start | 2,720 | | | | | | | 1,839 | 2,633 | 3,428 | 4,222 | | | | | | | | | | | 4.8 | 8.0 |
| | Min | 1,226 | | | | | | | 770 | 1,189 | 1,605 | 2,020 | | | | | | | | | | | | |
| | End | 1,944 | | | | | | | 1,069 | 1,859 | 2,648 | 3,438 | | | | | | | | | | | | |
| G01x14-SR0 | Start | 2,710 | | | | | | | 1,723 | 2,688 | 3,654 | 4,620 | | | | | | | | | | | 3.9 | 6.3 |
| | Min | 1,224 | | | | | | | 710 | 1,220 | 1,726 | 2,231 | | | | | | | | | | | | |
| | End | 1,933 | | | | | | | 953 | 1,913 | 2,873 | 3,834 | | | | | | | | | | | | |
| G01x08-SR1 | Start | 2,068 | | | | | | | | | | | | 1,178 | 1,504 | 1,831 | 1,995 | 2,158 | 2,322 | 2,486 | 2,649 | 2,813 | 8.8 | 13.2 |
| | Min | 975 | | | | | | | | | | | | 516 | 689 | 860 | 946 | 1,032 | 1,117 | 1,203 | 1,288 | 1,374 | | |
| | End | 1,633 | | | | | | | | | | | | 748 | 1,073 | 1,398 | 1,560 | 1,723 | 1,886 | 2,048 | 2,211 | 2,373 | | |
| G01x09-SR1 | Start | 2,062 | | | | | | | | | 1,148 | 1,565 | 1,982 | 2,399 | 2,817 | 3,025 | 3,234 | 3,443 | 3,651 | 3,860 | 4,069 | | 6.9 | 13.8 |
| | Min | 973 | | | | | | | | | 502 | 722 | 940 | 1,159 | 1,377 | 1,485 | 1,594 | 1,703 | 1,812 | 1,921 | 2,030 | | | |
| | End | 1,626 | | | | | | | | | 719 | 1,133 | 1,548 | 1,963 | 2,377 | 2,585 | 2,792 | 3,000 | 3,207 | 3,415 | 3,622 | | | |
| G01x10-SR1 | Start | 2,053 | | | | | | | 989 | 1,542 | 2,096 | 2,649 | 3,203 | 3,756 | 4,310 | 4,587 | 4,864 | | | | | | 5.2 | 11.4 |
| | Min | 971 | | | | | | | 419 | 711 | 1,001 | 1,290 | 1,579 | 1,868 | 2,157 | 2,301 | 2,446 | | | | | | | |
| | End | 1,618 | | | | | | | 560 | 1,110 | 1,661 | 2,211 | 2,761 | 3,312 | 3,862 | 4,138 | 4,413 | | | | | | | |
| G01x12-SR1 | Start | 2,041 | | | | | | 989 | 1,386 | 2,180 | 2,974 | 3,768 | 4,562 | | | | | | | | | | 3.7 | 8.0 |
| | Min | 968 | | | | | | 421 | 631 | 1,047 | 1,462 | 1,876 | 2,290 | | | | | | | | | | | |
| | End | 1,605 | | | | | | 560 | 955 | 1,744 | 2,534 | 3,323 | 4,113 | | | | | | | | | | | |
| G01x14-SR1 | Start | 2,031 | | | | 1,097 | 1,580 | 2,063 | 3,029 | 3,995 | 4,961 | | | | | | | | | | | | 3.0 | 6.3 |
| | Min | 965 | | | | 481 | 735 | 988 | 1,493 | 1,996 | 2,500 | | | | | | | | | | | | | |
| | End | 1,595 | | | | 668 | 1,148 | 1,628 | 2,588 | 3,549 | 4,509 | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | |
|----------------|-------------|------------------|--------------------------|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|------|-------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | 13.5 | | | 14 | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | |
| G01x08-SR2 | Start | 1,729 | | | | | | | | | | 724 | 1,051 | 1,378 | 1,705 | 2,032 | 2,195 | 2,359 | 2,522 | 2,686 | 2,849 | 3,013 | 7.4 | 13.2 |
| | Min | 837 | | | | | | | | | | 318 | 490 | 661 | 832 | 1,003 | 1,089 | 1,174 | 1,259 | 1,345 | 1,430 | 1,515 | | |
| | End | 1,434 | | | | | | | | | | | 435 | 760 | 1,085 | 1,410 | 1,735 | 1,897 | 2,060 | 2,223 | 2,385 | 2,548 | | |
| G01x09-SR2 | Start | 1,723 | | | | | | | | 932 | 1,349 | 1,766 | 2,183 | 2,600 | 3,017 | 3,225 | 3,434 | 3,643 | 3,851 | 4,060 | 4,269 | 5.8 | 13.8 | |
| | Min | 835 | | | | | | | | 428 | 647 | 865 | 1,083 | 1,301 | 1,518 | 1,627 | 1,736 | 1,845 | 1,954 | 2,063 | 2,171 | | | |
| | End | 1,427 | | | | | | | | | 641 | 1,056 | 1,470 | 1,885 | 2,300 | 2,715 | 2,922 | 3,129 | 3,337 | 3,544 | 3,752 | | | 3,959 |
| G01x10-SR2 | Start | 1,714 | | | | | | | 1,189 | 1,743 | 2,296 | 2,849 | 3,403 | 3,957 | 4,510 | 4,787 | 5,064 | 4.4 | 11.4 | | | | | |
| | Min | 833 | | | | | | | 565 | 854 | 1,143 | 1,432 | 1,721 | 2,009 | 2,298 | 2,442 | 2,587 | | | | | | | |
| | End | 1,419 | | | | | | | | 897 | 1,448 | 1,998 | 2,548 | 3,098 | 3,649 | 4,200 | 4,475 | | | 4,750 | | | | |
| G01x12-SR2 | Start | 1,702 | | | | 792 | 1,189 | 1,586 | 2,380 | 3,174 | 3,968 | 4,762 | 3.0 | 8.0 | | | | | | | | | | |
| | Min | 829 | | | | 359 | 567 | 775 | 1,189 | 1,603 | 2,017 | 2,431 | | | | | | | | | | | | |
| | End | 1,406 | | | | 503 | 897 | 1,292 | 2,081 | 2,871 | 3,660 | 4,450 | | | | | | | | | | | | |
| G01x14-SR2 | Start | 1,691 | | | 815 | 1,298 | 1,780 | 2,263 | 3,229 | 4,195 | 5,161 | 2.5 | 6.3 | | | | | | | | | | | |
| | Min | 827 | | | 373 | 626 | 879 | 1,131 | 1,634 | 2,138 | 2,641 | | | | | | | | | | | | | |
| | End | 1,396 | | | 525 | 1,005 | 1,485 | 1,965 | 2,925 | 3,886 | 4,846 | | | | | | | | | | | | | |
| G01x08-SR3 | Start | 1,507 | | | | | | | | | 908 | 1,234 | 1,561 | 1,888 | 2,215 | 2,378 | 2,542 | 2,705 | 2,869 | 3,033 | 3,196 | 6.5 | 13.2 | |
| | Min | 732 | | | | | | | | | 425 | 596 | 767 | 938 | 1,109 | 1,194 | 1,280 | 1,365 | 1,450 | 1,536 | 1,621 | | | |
| | End | 1,251 | | | | | | | | | | 656 | 981 | 1,306 | 1,631 | 1,956 | 2,118 | 2,281 | 2,444 | 2,606 | 2,769 | | | 2,931 |
| G01x09-SR3 | Start | 1,500 | | | | | | | 698 | 1,115 | 1,532 | 1,949 | 2,366 | 2,783 | 3,200 | 3,409 | 3,617 | 3,826 | 4,035 | 4,243 | 4,452 | 5.1 | 13.8 | |
| | Min | 730 | | | | | | | 316 | 535 | 753 | 971 | 1,189 | 1,406 | 1,624 | 1,733 | 1,842 | 1,950 | 2,059 | 2,168 | 2,277 | | | |
| | End | 1,245 | | | | | | | | 448 | 862 | 1,277 | 1,691 | 2,106 | 2,521 | 2,935 | 3,143 | 3,350 | 3,558 | 3,765 | 3,973 | | | 4,180 |
| G01x10-SR3 | Start | 1,492 | | | | | | 819 | 1,373 | 1,926 | 2,479 | 3,033 | 3,586 | 4,140 | 4,694 | 4,971 | 5,248 | 3.9 | 11.4 | | | | | |
| | Min | 728 | | | | | | 382 | 671 | 960 | 1,249 | 1,538 | 1,826 | 2,115 | 2,404 | 2,548 | 2,692 | | | | | | | |
| | End | 1,236 | | | | | | | 568 | 1,118 | 1,668 | 2,219 | 2,769 | 3,319 | 3,870 | 4,420 | 4,696 | | | 4,971 | | | | |
| G01x12-SR3 | Start | 1,479 | | | | 976 | 1,373 | 1,769 | 2,563 | 3,357 | 4,152 | 4,946 | 2.7 | 8.0 | | | | | | | | | | |
| | Min | 724 | | | | 466 | 674 | 881 | 1,295 | 1,709 | 2,123 | 2,537 | | | | | | | | | | | | |
| | End | 1,224 | | | | 724 | 1,118 | 1,513 | 2,302 | 3,092 | 3,881 | 4,671 | | | | | | | | | | | | |
| G01x14-SR3 | Start | 1,469 | | | 998 | 1,481 | 1,964 | 2,447 | 3,412 | 4,378 | 5,344 | 2.2 | 6.3 | | | | | | | | | | | |
| | Min | 722 | | | 480 | 733 | 985 | 1,236 | 1,740 | 2,243 | 2,746 | | | | | | | | | | | | | |
| | End | 1,214 | | | 746 | 1,226 | 1,706 | 2,186 | 3,146 | 4,107 | 5,067 | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | |
|----------------|-------------|------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | |
| G01x08-SR4 | Start | 1,279 | | | | | | | | 746 | 1,072 | 1,399 | 1,726 | 2,053 | 2,380 | 2,543 | 2,707 | 2,870 | 3,034 | 3,197 | 3,361 | 5.5 | 13.2 |
| | Min | 630 | | | | | | | | 358 | 529 | 700 | 870 | 1,041 | 1,212 | 1,297 | 1,382 | 1,468 | 1,553 | 1,638 | 1,724 | | |
| | End | 1,088 | | | | | | | | | 558 | 883 | 1,208 | 1,533 | 1,858 | 2,183 | 2,345 | 2,508 | 2,670 | 2,833 | 2,996 | | |
| G01x09-SR4 | Start | 1,272 | | | | | 446 | 863 | 1,280 | 1,697 | 2,114 | 2,531 | 2,948 | 3,365 | 3,573 | 3,782 | 3,991 | 4,199 | 4,408 | 4,617 | 4.1 | 13.8 | |
| | Min | 629 | | | | | 201 | 421 | 639 | 856 | 1,074 | 1,291 | 1,509 | 1,726 | 1,835 | 1,944 | 2,053 | 2,162 | 2,270 | 2,379 | | | |
| | End | 1,081 | | | | | 261 | 675 | 1,089 | 1,504 | 1,918 | 2,333 | 2,748 | 3,162 | 3,370 | 3,577 | 3,785 | 3,992 | 4,200 | 4,407 | | | |
| G01x10-SR4 | Start | 1,264 | | | | 708 | 984 | 1,537 | 2,091 | 2,644 | 3,197 | 3,751 | 4,305 | 4,858 | 5,135 | 5,412 | 3.3 | 11.4 | | | | | |
| | Min | 626 | | | | 341 | 485 | 774 | 1,063 | 1,352 | 1,640 | 1,929 | 2,217 | 2,506 | 2,650 | 2,794 | | | | | | | |
| | End | 1,073 | | | | 520 | 795 | 1,345 | 1,895 | 2,446 | 2,996 | 3,546 | 4,097 | 4,647 | 4,923 | 5,198 | | | | | | | |
| G01x12-SR4 | Start | 1,251 | | 743 | 1,140 | 1,537 | 1,934 | 2,728 | 3,522 | 4,316 | 5,110 | 2.3 | 8.0 | | | | | | | | | | |
| | Min | 623 | | 362 | 570 | 777 | 984 | 1,398 | 1,811 | 2,225 | 2,639 | | | | | | | | | | | | |
| | End | 1,060 | | 556 | 951 | 1,345 | 1,740 | 2,529 | 3,319 | 4,108 | 4,898 | | | | | | | | | | | | |
| G01x14-SR4 | Start | 1,241 | 680 | 1,163 | 1,646 | 2,128 | 2,611 | 3,577 | 4,543 | 5,509 | 1.9 | 6.3 | | | | | | | | | | | |
| | Min | 620 | 331 | 584 | 836 | 1,087 | 1,339 | 1,842 | 2,345 | 2,849 | | | | | | | | | | | | | |
| | End | 1,050 | 493 | 973 | 1,453 | 1,933 | 2,413 | 3,373 | 4,334 | 5,294 | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | |
|----------------|-------------|------------------|--------------------------|---|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|------|-----|------|-----|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | |
| G2x09-SR1 | Start | 3,554 | | | | | | | | | | | | | 2,161 | 2,666 | 2,918 | 3,171 | 3,423 | 3,676 | 3,929 | | 9.7 | 12.9 | |
| | Min | 1,642 | | | | | | | | | | | | | 923 | 1,189 | 1,322 | 1,455 | 1,587 | 1,720 | 1,852 | | | | |
| | End | 2,706 | | | | | | | | | | | | | 1,322 | 1,824 | 2,075 | 2,327 | 2,578 | 2,829 | 3,080 | | | | |
| G2x10-SR1 | Start | 3,544 | | | | | | | | | | 1,794 | 2,463 | 3,133 | 3,803 | | | | | | | | | 7.4 | 9.7 |
| | Min | 1,639 | | | | | | | | | | 728 | 1,084 | 1,436 | 1,787 | | | | | | | | | | |
| | End | 2,696 | | | | | | | | | | 957 | 1,623 | 2,289 | 2,955 | | | | | | | | | | |
| G2x12-SR1 | Start | 3,529 | | | | | | | 1,895 | 2,856 | 3,817 | | | | | | | | | | | | | 5.1 | 6.9 |
| | Min | 1,635 | | | | | | | 785 | 1,293 | 1,797 | | | | | | | | | | | | | | |
| | End | 2,681 | | | | | | | 1,058 | 2,013 | 2,969 | | | | | | | | | | | | | | |
| G2x14-SR1 | Start | 3,516 | | | | | | 1,754 | 2,923 | 4,092 | | | | | | | | | | | | | | 4.1 | 5.6 |
| | Min | 1,632 | | | | | | 713 | 1,331 | 1,943 | | | | | | | | | | | | | | | |
| | End | 2,669 | | | | | | 918 | 2,080 | 3,242 | | | | | | | | | | | | | | | |
| G2x16-SR1 | Start | 3,501 | | | | 1,695 | 2,466 | 3,238 | 4,782 | | | | | | | | | | | | | | | 3.2 | 4.2 |
| | Min | 1,628 | | | | 684 | 1,094 | 1,499 | 2,307 | | | | | | | | | | | | | | | | |
| | End | 2,653 | | | | 858 | 1,626 | 2,393 | 3,929 | | | | | | | | | | | | | | | | |
| G2x09-SR2 | Start | 3,070 | | | | | | | | | | 1,463 | 1,968 | 2,472 | 2,977 | 3,230 | 3,482 | 3,735 | 3,987 | 4,240 | | | 8.5 | 12.9 | |
| | Min | 1,437 | | | | | | | | | | 604 | 871 | 1,137 | 1,402 | 1,534 | 1,666 | 1,798 | 1,930 | 2,062 | | | | | |
| | End | 2,397 | | | | | | | | | | 800 | 1,302 | 1,804 | 2,306 | 2,557 | 2,808 | 3,059 | 3,311 | 3,562 | | | | | |
| G2x10-SR2 | Start | 3,060 | | | | | | | | 1,435 | 2,105 | 2,775 | 3,445 | 4,115 | | | | | | | | | | 6.3 | 9.7 |
| | Min | 1,435 | | | | | | | | 590 | 945 | 1,297 | 1,647 | 1,998 | | | | | | | | | | | |
| | End | 2,387 | | | | | | | | 773 | 1,439 | 2,105 | 2,771 | 3,437 | | | | | | | | | | | |
| G2x12-SR2 | Start | 3,044 | | | | | | | 2,207 | 3,167 | 4,128 | | | | | | | | | | | | | 4.5 | 6.9 |
| | Min | 1,431 | | | | | | | 1,001 | 1,505 | 2,007 | | | | | | | | | | | | | | |
| | End | 2,372 | | | | | | | 1,540 | 2,495 | 3,451 | | | | | | | | | | | | | | |
| G2x14-SR2 | Start | 3,032 | | | | | 1,481 | 2,065 | 3,234 | 4,403 | | | | | | | | | | | | | | 3.7 | 5.6 |
| | Min | 1,428 | | | | | 621 | 930 | 1,542 | 2,153 | | | | | | | | | | | | | | | |
| | End | 2,359 | | | | | 818 | 1,399 | 2,562 | 3,724 | | | | | | | | | | | | | | | |
| G2x16-SR2 | Start | 3,016 | | | | 2,006 | 2,778 | 3,550 | 5,093 | | | | | | | | | | | | | | | 2.8 | 4.2 |
| | Min | 1,423 | | | | 902 | 1,307 | 1,710 | 2,516 | | | | | | | | | | | | | | | | |
| | End | 2,344 | | | | 1,340 | 2,108 | 2,875 | 4,411 | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | |
|----------------|-------------|------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|-------|-----|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | |
| G2x09-SR3 | Start | 2,750 | | | | | | | | | | | | 1,721 | 2,226 | 2,731 | 3,235 | 3,488 | 3,740 | 3,993 | 4,245 | 4,498 | 7.6 | 12.9 |
| | Min | 1,288 | | | | | | | | | | | | 759 | 1,025 | 1,289 | 1,553 | 1,685 | 1,817 | 1,949 | 2,081 | 2,213 | | |
| | End | 2,140 | | | | | | | | | | | | 1,118 | 1,620 | 2,122 | 2,624 | 2,875 | 3,126 | 3,377 | 3,628 | 3,879 | | |
| G2x10-SR3 | Start | 2,740 | | | | | | | | 1,693 | 2,363 | 3,033 | 3,703 | 4,373 | 5.7 | 9.7 | | | | | | | | |
| | Min | 1,285 | | | | | | | 746 | 1,098 | 1,449 | 1,799 | 2,149 | | | | | | | | | | | |
| | End | 2,130 | | | | | | | 1,090 | 1,756 | 2,422 | 3,088 | 3,755 | | | | | | | | | | | |
| G2x12-SR3 | Start | 2,725 | | | | | 1,504 | 2,465 | 3,426 | 4,387 | 4.0 | 6.9 | | | | | | | | | | | | |
| | Min | 1,281 | | | | | 648 | 1,154 | 1,656 | 2,158 | | | | | | | | | | | | | | |
| | End | 2,115 | | | | | 902 | 1,857 | 2,813 | 3,768 | | | | | | | | | | | | | | |
| G2x14-SR3 | Start | 2,713 | | | | 1,739 | 2,323 | 3,492 | 4,661 | 3.3 | 5.6 | | | | | | | | | | | | | |
| | Min | 1,278 | | | | 776 | 1,083 | 1,694 | 2,304 | | | | | | | | | | | | | | | |
| | End | 2,103 | | | | 1,136 | 1,717 | 2,879 | 4,041 | | | | | | | | | | | | | | | |
| G2x16-SR3 | Start | 2,697 | | 1,492 | 2,264 | 3,036 | 3,808 | 5,351 | 2.5 | 4.2 | | | | | | | | | | | | | | |
| | Min | 1,274 | | 648 | 1,055 | 1,459 | 1,862 | 2,667 | | | | | | | | | | | | | | | | |
| | End | 2,087 | | 890 | 1,658 | 2,425 | 3,193 | 4,728 | | | | | | | | | | | | | | | | |
| G2x09-SR4 | Start | 2,454 | | | | | | | | 1,501 | 2,006 | 2,510 | 3,015 | 3,520 | 3,773 | 4,025 | 4,278 | 4,530 | 4,783 | 6.8 | 12.9 | | | |
| | Min | 1,136 | | | | | | | | 645 | 912 | 1,177 | 1,441 | 1,705 | 1,837 | 1,969 | 2,101 | 2,233 | 2,364 | | | | | |
| | End | 1,857 | | | | | | | | 911 | 1,413 | 1,915 | 2,417 | 2,919 | 3,170 | 3,421 | 3,672 | 3,923 | 4,174 | | | | | |
| G2x10-SR4 | Start | 2,444 | | | | | 1,309 | 1,978 | 2,648 | 3,318 | 3,987 | 4,657 | 5.1 | 9.7 | | | | | | | | | | |
| | Min | 1,134 | | | | | 544 | 899 | 1,250 | 1,600 | 1,950 | 2,300 | | | | | | | | | | | | |
| | End | 1,847 | | | | | 719 | 1,385 | 2,051 | 2,717 | 3,383 | 4,050 | | | | | | | | | | | | |
| G2x12-SR4 | Start | 2,428 | | | | 1,308 | 1,789 | 2,749 | 3,710 | 4,671 | 3.6 | 6.9 | | | | | | | | | | | | |
| | Min | 1,130 | | | | 547 | 802 | 1,306 | 1,808 | 2,310 | | | | | | | | | | | | | | |
| | End | 1,832 | | | | 719 | 1,197 | 2,152 | 3,108 | 4,063 | | | | | | | | | | | | | | |
| G2x14-SR4 | Start | 2,416 | | | 1,440 | 2,024 | 2,608 | 3,777 | 4,946 | 3.0 | 5.6 | | | | | | | | | | | | | |
| | Min | 1,127 | | | 620 | 928 | 1,235 | 1,845 | 2,455 | | | | | | | | | | | | | | | |
| | End | 1,820 | | | 850 | 1,431 | 2,012 | 3,174 | 4,336 | | | | | | | | | | | | | | | |
| G2x16-SR4 | Start | 2,400 | | 1,777 | 2,549 | 3,320 | 4,092 | 5,636 | 2.2 | 4.2 | | | | | | | | | | | | | | |
| | Min | 1,122 | | 802 | 1,207 | 1,610 | 2,013 | 2,818 | | | | | | | | | | | | | | | | |
| | End | 1,804 | | 1,185 | 1,953 | 2,720 | 3,488 | 5,023 | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | |
|----------------|-------------|------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|-------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | |
| G3x10-SR1 | Start | 6,240 | | | | | | | | | | | | | | 3,896 | 4,299 | 4,703 | 5,107 | 5,511 | 5,915 | 6,319 | 10.7 | 13.8 |
| | Min | 2,867 | | | | | | | | | | | | | | 1,656 | 1,870 | 2,083 | 2,295 | 2,507 | 2,719 | 2,930 | | |
| | End | 4,731 | | | | | | | | | | | | | | 2,401 | 2,803 | 3,205 | 3,606 | 4,008 | 4,410 | 4,812 | | |
| G3x12-SR1 | Start | 6,221 | | | | | | | | | | 3,128 | 4,289 | 5,451 | 6,613 | | | | | | | | 7.4 | 9.8 |
| | Min | 2,863 | | | | | | | | | | 1,250 | 1,867 | 2,478 | 3,087 | | | | | | | | | |
| | End | 4,712 | | | | | | | | | | 1,638 | 2,793 | 3,949 | 5,104 | | | | | | | | | |
| G3x14-SR1 | Start | 6,206 | | | | | | | | 3,470 | 4,884 | 6,298 | 7,713 | | | | | | | | | | 6.1 | 8.1 |
| | Min | 2,859 | | | | | | | | 1,436 | 2,183 | 2,925 | 3,665 | | | | | | | | | | | |
| | End | 4,697 | | | | | | | | 1,977 | 3,384 | 4,791 | 6,199 | | | | | | | | | | | |
| G3x16-SR1 | Start | 6,187 | | | | | | | 4,317 | 6,188 | 8,058 | | | | | | | | | | | | 4.6 | 6.2 |
| | Min | 2,854 | | | | | | | 1,888 | 2,870 | 3,848 | | | | | | | | | | | | | |
| | End | 4,678 | | | | | | | 2,820 | 4,681 | 6,542 | | | | | | | | | | | | | |
| G3x20-SR1 | Start | 6,148 | | | 3,840 | 5,325 | 6,811 | | | | | | | | | | | | | | | | 2.9 | 3.9 |
| | Min | 2,844 | | | 1,644 | 2,426 | 3,203 | | | | | | | | | | | | | | | | | |
| | End | 4,639 | | | 2,346 | 3,823 | 5,301 | | | | | | | | | | | | | | | | | |
| G3x10-SR2 | Start | 5,438 | | | | | | | | | | | 2,895 | 3,702 | 4,510 | 4,914 | 5,317 | 5,721 | 6,125 | 6,529 | 6,933 | 9.3 | 13.8 | |
| | Min | 2,502 | | | | | | | | | | | 1,181 | 1,609 | 2,034 | 2,246 | 2,458 | 2,669 | 2,881 | 3,092 | 3,303 | | | |
| | End | 4,120 | | | | | | | | | | | 1,592 | 2,395 | 3,198 | 3,600 | 4,002 | 4,404 | 4,805 | 5,207 | 5,609 | | | |
| G3x12-SR2 | Start | 5,419 | | | | | | | | | | 3,742 | 4,904 | 6,065 | 7,227 | | | | | | | | 6.5 | 9.8 |
| | Min | 2,497 | | | | | | | | | | 1,633 | 2,243 | 2,852 | 3,459 | | | | | | | | | |
| | End | 4,101 | | | | | | | | | | 2,435 | 3,590 | 4,746 | 5,901 | | | | | | | | | |
| G3x14-SR2 | Start | 5,404 | | | | | | 2,669 | 4,084 | 5,498 | 6,913 | 8,327 | | | | | | | | | | | 5.3 | 8.1 |
| | Min | 2,493 | | | | | | 1,066 | 1,816 | 2,558 | 3,298 | 4,036 | | | | | | | | | | | | |
| | End | 4,086 | | | | | | 1,368 | 2,775 | 4,181 | 5,589 | 6,996 | | | | | | | | | | | | |
| G3x16-SR2 | Start | 5,385 | | | | | 3,061 | 4,931 | 6,802 | 8,672 | | | | | | | | | | | | | 4.0 | 6.2 |
| | Min | 2,488 | | | | | 1,279 | 2,264 | 3,243 | 4,219 | | | | | | | | | | | | | | |
| | End | 4,067 | | | | | 1,757 | 3,618 | 5,478 | 7,339 | | | | | | | | | | | | | | |
| G3x20-SR2 | Start | 5,346 | | 2,969 | 4,454 | 5,940 | 7,425 | | | | | | | | | | | | | | | | 2.6 | 3.9 |
| | Min | 2,478 | | 1,238 | 2,022 | 2,800 | 3,575 | | | | | | | | | | | | | | | | | |
| | End | 4,029 | | 1,666 | 3,143 | 4,621 | 6,098 | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | | |
|----------------|-------------|------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|----------|-------|-------|-------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | 13.5 | | | 14 | | | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | | | |
| G3x10-SR3 | Start | 4,749 | | | | | | | | | | | | | 2,616 | 3,424 | 4,231 | 5,039 | 5,442 | 5,846 | 6,250 | 6,654 | 7,058 | 7,462 | 8.1 | 13.8 | |
| | Min | 2,187 | | | | | | | | | | | | | 1,081 | 1,509 | 1,933 | 2,356 | 2,568 | 2,779 | 2,990 | 3,201 | 3,412 | 3,623 | | | |
| | End | 3,594 | | | | | | | | | | | | | 1,475 | 2,278 | 3,081 | 3,884 | 4,286 | 4,687 | 5,089 | 5,491 | 5,893 | 6,295 | | | |
| G3x12-SR3 | Start | 4,730 | | | | | | | | 3,109 | 4,271 | 5,432 | 6,594 | 7,756 | | | | | | | | | | | | 5.7 | 9.8 |
| | Min | 2,182 | | | | | | | | 1,346 | 1,957 | 2,565 | 3,172 | 3,778 | | | | | | | | | | | | | |
| | End | 3,575 | | | | | | | | 1,965 | 3,120 | 4,276 | 5,431 | 6,587 | | | | | | | | | | | | | |
| G3x14-SR3 | Start | 4,715 | | | | | | | | 3,198 | 4,612 | 6,027 | 7,441 | 8,856 | | | | | | | | | | | | 4.7 | 8.1 |
| | Min | 2,179 | | | | | | | | 1,396 | 2,139 | 2,879 | 3,617 | 4,355 | | | | | | | | | | | | | |
| | End | 3,560 | | | | | | | | 2,053 | 3,460 | 4,867 | 6,274 | 7,681 | | | | | | | | | | | | | |
| G3x16-SR3 | Start | 4,696 | | | | | | 2,655 | 3,590 | 5,460 | 7,330 | 9,201 | | | | | | | | | | | | | | 3.5 | 6.2 |
| | Min | 2,174 | | | | | | 1,112 | 1,606 | 2,586 | 3,562 | 4,538 | | | | | | | | | | | | | | | |
| | End | 3,541 | | | | | | 1,513 | 2,443 | 4,303 | 6,164 | 8,025 | | | | | | | | | | | | | | | |
| G3x20-SR3 | Start | 4,657 | | | 3,498 | 4,983 | 6,468 | 7,954 | | | | | | | | | | | | | | | | | | 2.2 | 3.9 |
| | Min | 2,163 | | | 1,565 | 2,344 | 3,120 | 3,894 | | | | | | | | | | | | | | | | | | | |
| | End | 3,503 | | | 2,351 | 3,829 | 5,306 | 6,784 | | | | | | | | | | | | | | | | | | | |
| G3x10-SR4 | Start | 4,156 | | | | | | | | | | | | | 2,264 | 3,071 | 3,878 | 4,685 | 5,493 | 5,897 | 6,301 | 6,704 | 7,108 | 7,512 | 7,916 | 7.2 | 13.8 |
| | Min | 1,917 | | | | | | | | | | | | | 935 | 1,363 | 1,787 | 2,210 | 2,632 | 2,843 | 3,054 | 3,264 | 3,475 | 3,686 | 3,897 | | |
| | End | 3,142 | | | | | | | | | | | | | 1,262 | 2,064 | 2,867 | 3,670 | 4,474 | 4,875 | 5,277 | 5,679 | 6,081 | 6,482 | 6,884 | | |
| G3x12-SR4 | Start | 4,137 | | | | | | | | 2,403 | 3,564 | 4,725 | 5,887 | 7,048 | 8,210 | | | | | | | | | | | 5.0 | 9.8 |
| | Min | 1,912 | | | | | | | | 1,012 | 1,625 | 2,233 | 2,840 | 3,446 | 4,052 | | | | | | | | | | | | |
| | End | 3,123 | | | | | | | | 1,400 | 2,555 | 3,710 | 4,865 | 6,021 | 7,177 | | | | | | | | | | | | |
| G3x14-SR4 | Start | 4,122 | | | | | | | 2,239 | 3,653 | 5,067 | 6,481 | 7,896 | 9,311 | | | | | | | | | | | | 4.1 | 8.1 |
| | Min | 1,908 | | | | | | | 928 | 1,675 | 2,415 | 3,153 | 3,891 | 4,629 | | | | | | | | | | | | | |
| | End | 3,108 | | | | | | | 1,236 | 2,643 | 4,050 | 5,457 | 6,864 | 8,271 | | | | | | | | | | | | | |
| G3x16-SR4 | Start | 4,103 | | | | 2,174 | 3,109 | 4,044 | 5,914 | 7,785 | 9,655 | | | | | | | | | | | | | | | 3.1 | 6.2 |
| | Min | 1,903 | | | | 898 | 1,393 | 1,883 | 2,861 | 3,837 | 4,811 | | | | | | | | | | | | | | | | |
| | End | 3,089 | | | | 1,172 | 2,102 | 3,032 | 4,893 | 6,753 | 8,614 | | | | | | | | | | | | | | | | |
| G3x20-SR4 | Start | 4,064 | | 2,467 | 3,952 | 5,437 | 6,923 | 8,408 | | | | | | | | | | | | | | | | | | 1.9 | 3.9 |
| | Min | 1,893 | | 1,062 | 1,843 | 2,620 | 3,394 | 4,168 | | | | | | | | | | | | | | | | | | | |
| | End | 3,051 | | 1,464 | 2,941 | 4,418 | 5,896 | 7,373 | | | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | | |
|----------------|-------------|------------------|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|---|---|----|-------|--------|--------|--------|--------|------------|----------|--------|--------|------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | | |
| G4x14-SR1 | Start | 12,762 | | | | | | | | | | | | | 7,448 | 9,157 | 10,012 | 10,866 | 11,721 | 12,575 | 13,430 | 14,285 | 10.3 | 13.4 | | |
| | Min | 5,723 | | | | | | | | | | | | | 2,948 | 3,858 | 4,310 | 4,760 | 5,210 | 5,659 | 6,107 | 6,555 | | | | |
| | End | 9,215 | | | | | | | | | | | | | 3,935 | 5,634 | 6,484 | 7,333 | 8,183 | 9,033 | 9,883 | 10,733 | | | | |
| G4x16-SR1 | Start | 12,739 | | | | | | | | | | | | | 8,444 | 10,707 | 12,970 | 15,234 | | | | | | 7.8 | 10.1 | |
| | Min | 5,717 | | | | | | | | | | | | | 3,483 | 4,680 | 5,869 | 7,055 | | | | | | | | |
| | End | 9,192 | | | | | | | | | | | | | 4,925 | 7,175 | 9,426 | 11,676 | | | | | | | | |
| G4x20-SR1 | Start | 12,692 | | | | | | | 8,298 | 11,898 | 15,498 | | | | | | | | | | | | | 4.9 | 6.3 | |
| | Min | 5,705 | | | | | | | 3,413 | 5,313 | 7,200 | | | | | | | | | | | | | | | |
| | End | 9,145 | | | | | | | 4,780 | 8,359 | 11,939 | | | | | | | | | | | | | | | |
| G4x24-SR1 | Start | 12,658 | | | | | 8,619 | 11,241 | 16,484 | | | | | | | | | | | | | | | 3.4 | 4.3 | |
| | Min | 5,696 | | | | | 3,588 | 4,972 | 7,718 | | | | | | | | | | | | | | | | | |
| | End | 9,111 | | | | | 5,099 | 7,706 | 12,920 | | | | | | | | | | | | | | | | | |
| G4x28-SR1 | Start | 12,513 | | | 8,629 | 12,330 | 16,032 | 19,734 | | | | | | | | | | | | | | | | 2.3 | 3.1 | |
| | Min | 5,658 | | | 3,637 | 5,587 | 7,526 | 9,460 | | | | | | | | | | | | | | | | | | |
| | End | 8,967 | | | 5,109 | 8,789 | 12,470 | 16,150 | | | | | | | | | | | | | | | | | | |
| G4x12-SR2 | Start | 11,169 | | | | | | | | | | | | | 7,248 | 7,948 | 8,649 | 9,350 | 10,050 | 10,751 | 11,452 | 11.0 | 13.8 | | | |
| | Min | 4,929 | | | | | | | | | | | | | 2,884 | 3,258 | 3,631 | 4,001 | 4,371 | 4,740 | 5,109 | | | | | |
| | End | 7,786 | | | | | | | | | | | | | 3,891 | 4,588 | 5,284 | 5,981 | 6,678 | 7,375 | 8,072 | | | | | |
| G4x14-SR2 | Start | 11,151 | | | | | | | | | | | | | 7,195 | 8,903 | 10,612 | 11,467 | 12,321 | 13,176 | 14,030 | 14,885 | 15,740 | 9.0 | 13.4 | |
| | Min | 4,924 | | | | | | | | | | | | | 2,860 | 3,769 | 4,671 | 5,120 | 5,569 | 6,017 | 6,464 | 6,912 | 7,359 | | | |
| | End | 7,768 | | | | | | | | | | | | | 3,839 | 5,537 | 7,236 | 8,086 | 8,936 | 9,785 | 10,635 | 11,485 | 12,335 | | | |
| G4x16-SR2 | Start | 11,127 | | | | | | | | | | | | | 7,637 | 9,899 | 12,162 | 14,425 | 16,689 | | | | | | 6.8 | 10.1 |
| | Min | 4,918 | | | | | | | | | | | | | 3,099 | 4,298 | 5,488 | 6,674 | 7,858 | | | | | | | |
| | End | 7,745 | | | | | | | | | | | | | 4,278 | 6,528 | 8,778 | 11,028 | 13,279 | | | | | | | |
| G4x20-SR2 | Start | 11,080 | | | | | | 6,153 | 9,753 | 13,353 | 16,953 | | | | | | | | | | | | | 4.1 | 6.3 | |
| | Min | 4,906 | | | | | | 2,309 | 4,229 | 6,120 | 8,002 | | | | | | | | | | | | | | | |
| | End | 7,699 | | | | | | 2,803 | 6,382 | 9,962 | 13,541 | | | | | | | | | | | | | | | |
| G4x24-SR2 | Start | 11,046 | | | | 7,452 | 10,074 | 12,696 | 17,939 | | | | | | | | | | | | | | | 3.0 | 4.3 | |
| | Min | 4,897 | | | | 3,014 | 4,403 | 5,779 | 8,520 | | | | | | | | | | | | | | | | | |
| | End | 7,665 | | | | 4,095 | 6,701 | 9,308 | 14,522 | | | | | | | | | | | | | | | | | |
| G4x28-SR2 | Start | 10,901 | | 6,383 | 10,084 | 13,785 | 17,487 | 21,189 | | | | | | | | | | | | | | | | 2.1 | 3.1 | |
| | Min | 4,859 | | 2,483 | 4,451 | 6,393 | 8,328 | 10,261 | | | | | | | | | | | | | | | | | | |
| | End | 7,521 | | 3,031 | 6,711 | 10,392 | 14,072 | 17,753 | | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | | |
|----------------|-------------|------------------|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|----------|--------|-----|------|------|-----|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | | |
| G4x12-SR3 | Start | 9,403 | | | | | | | | | | | | 5,673 | 7,074 | 8,475 | 9,176 | 9,876 | 10,577 | 11,278 | 11,979 | 12,680 | 9.2 | 13.8 | | |
| | Min | 4,159 | | | | | | | | | | | | 2,208 | 2,957 | 3,698 | 4,067 | 4,435 | 4,803 | 5,170 | 5,537 | 5,904 | | | | |
| | End | 6,566 | | | | | | | | | | | | 2,860 | 4,253 | 5,646 | 6,343 | 7,040 | 7,737 | 8,433 | 9,130 | 9,827 | | | | |
| G4x14-SR3 | Start | 9,385 | | | | | | | | | | | 6,714 | 8,422 | 10,131 | 11,840 | 12,694 | 13,549 | 14,403 | 15,258 | 16,113 | 16,967 | 7.6 | 13.4 | | |
| | Min | 4,154 | | | | | | | | | | | 2,770 | 3,674 | 4,572 | 5,468 | 5,915 | 6,362 | 6,809 | 7,256 | 7,702 | 8,148 | | | | |
| | End | 6,548 | | | | | | | | | | | 3,895 | 5,594 | 7,293 | 8,992 | 9,841 | 10,691 | 11,541 | 12,391 | 13,240 | 14,090 | | | | |
| G4x16-SR3 | Start | 9,361 | | | | | | | | | 6,602 | 8,864 | 11,127 | 13,390 | 15,653 | 17,916 | | | | | | | 5.7 | 10.1 | | |
| | Min | 4,148 | | | | | | | | | 2,714 | 3,910 | 5,098 | 6,282 | 7,465 | 8,646 | | | | | | | | | | |
| | End | 6,525 | | | | | | | | | 3,784 | 6,033 | 8,283 | 10,533 | 12,783 | 15,034 | | | | | | | | | | |
| G4x20-SR3 | Start | 9,314 | | | | | 5,581 | 7,381 | 10,981 | 14,580 | 18,181 | | | | | | | | | | | | | 3.6 | 6.3 | |
| | Min | 4,136 | | | | | 2,176 | 3,136 | 5,029 | 6,911 | 8,791 | | | | | | | | | | | | | | | |
| | End | 6,478 | | | | | 2,769 | 4,559 | 8,138 | 11,717 | 15,297 | | | | | | | | | | | | | | | |
| G4x24-SR3 | Start | 9,280 | | | 6,058 | 8,680 | 11,301 | 13,923 | 19,167 | | | | | | | | | | | | | | | | 2.5 | 4.3 |
| | Min | 4,127 | | | 2,438 | 3,826 | 5,201 | 6,572 | 9,308 | | | | | | | | | | | | | | | | | |
| | End | 6,444 | | | 3,243 | 5,850 | 8,457 | 11,064 | 16,277 | | | | | | | | | | | | | | | | | |
| G4x28-SR3 | Start | 9,135 | | 7,610 | 11,311 | 15,013 | 18,714 | 22,416 | | | | | | | | | | | | | | | | | 1.7 | 3.1 |
| | Min | 4,089 | | 3,304 | 5,249 | 7,185 | 9,116 | 11,047 | | | | | | | | | | | | | | | | | | |
| | End | 6,300 | | 4,787 | 8,467 | 12,147 | 15,827 | 19,508 | | | | | | | | | | | | | | | | | | |
| G4x12-SR4 | Start | 7,760 | | | | | | | | | | | 5,334 | 6,735 | 8,136 | 9,537 | 10,237 | 10,938 | 11,639 | 12,340 | 13,041 | 13,741 | 7.7 | 13.8 | | |
| | Min | 3,467 | | | | | | | | | | | 2,209 | 2,950 | 3,687 | 4,421 | 4,788 | 5,154 | 5,521 | 5,887 | 6,253 | 6,619 | | | | |
| | End | 5,510 | | | | | | | | | | | 3,101 | 4,493 | 5,886 | 7,280 | 7,976 | 8,673 | 9,370 | 10,066 | 10,763 | 11,460 | | | | |
| G4x14-SR4 | Start | 7,742 | | | | | | | | | 4,360 | 6,068 | 7,776 | 9,484 | 11,193 | 12,901 | 13,756 | 14,610 | 15,465 | 16,320 | 17,174 | 18,029 | 6.3 | 13.4 | | |
| | Min | 3,462 | | | | | | | | | 1,691 | 2,602 | 3,502 | 4,397 | 5,291 | 6,184 | 6,630 | 7,076 | 7,522 | 7,968 | 8,414 | 8,860 | | | | |
| | End | 5,492 | | | | | | | | | 2,132 | 3,830 | 5,528 | 7,227 | 8,926 | 10,625 | 11,474 | 12,324 | 13,174 | 14,024 | 14,874 | 15,723 | | | | |
| G4x16-SR4 | Start | 7,718 | | | | | | | 5,401 | 7,663 | 9,926 | 12,188 | 14,451 | 16,715 | 18,978 | | | | | | | | | 4.8 | 10.1 | |
| | Min | 3,456 | | | | | | | 2,253 | 3,446 | 4,632 | 5,815 | 6,996 | 8,177 | 9,357 | | | | | | | | | | | |
| | End | 5,469 | | | | | | | 3,168 | 5,417 | 7,666 | 9,916 | 12,166 | 14,416 | 16,667 | | | | | | | | | | | |
| G4x20-SR4 | Start | 7,671 | | | 4,843 | 6,643 | 8,443 | 12,042 | 15,642 | 19,243 | | | | | | | | | | | | | | 3.0 | 6.3 | |
| | Min | 3,443 | | | 1,965 | 2,918 | 3,864 | 5,746 | 7,625 | 9,502 | | | | | | | | | | | | | | | | |
| | End | 5,422 | | | 2,613 | 4,402 | 6,192 | 9,771 | 13,350 | 16,930 | | | | | | | | | | | | | | | | |
| G4x24-SR4 | Start | 7,638 | | 4,499 | 7,120 | 9,742 | 12,363 | 14,985 | 20,229 | | | | | | | | | | | | | | | 2.1 | 4.3 | |
| | Min | 3,434 | | 1,786 | 3,175 | 4,549 | 5,918 | 7,285 | 10,018 | | | | | | | | | | | | | | | | | |
| | End | 5,389 | | 2,270 | 4,877 | 7,483 | 10,090 | 12,697 | 17,910 | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | |
|----------------|-------------|------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|----|--------|--------|--------|--------|--------|------------|----------|------|----|--|--|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | |
| G5x20-SR1 | Start | 28,966 | | | | | | | | | | | | | 22,835 | 27,460 | 32,085 | 34,398 | 36,711 | | | | | | |
| | Min | 12,112 | | | | | | | | | | | | | 8,897 | 11,363 | 13,806 | 15,023 | 16,237 | | | | | | |
| | End | 18,054 | | | | | | | | | | | | | 11,967 | 16,568 | 21,168 | 23,469 | 25,769 | | | | | | |
| G5x24-SR1 | Start | 28,922 | | | | | | | | 21,678 | 28,429 | 35,181 | | | | | | | | | | | | | |
| | Min | 12,100 | | | | | | | | 8,279 | 11,879 | 15,436 | | | | | | | | | | | | | |
| | End | 18,010 | | | | | | | | 10,817 | 17,532 | 24,247 | | | | | | | | | | | | | |
| G5x28-SR1 | Start | 28,734 | | | | | | 19,164 | 28,709 | 38,254 | | | | | | | | | | | | | | | |
| | Min | 12,051 | | | | | | 6,973 | 12,090 | 17,114 | | | | | | | | | | | | | | | |
| | End | 17,824 | | | | | | 8,317 | 17,810 | 27,304 | | | | | | | | | | | | | | | |
| G5x32-SR1 | Start | 28,659 | | | 18,406 | 24,655 | 30,903 | 43,402 | | | | | | | | | | | | | | | | | |
| | Min | 12,031 | | | 6,571 | 9,952 | 13,264 | 19,824 | | | | | | | | | | | | | | | | | |
| | End | 17,748 | | | 7,562 | 13,777 | 19,993 | 32,425 | | | | | | | | | | | | | | | | | |
| G5x36-SR1 | Start | 28,583 | | 20,452 | 28,375 | 36,298 | 44,221 | | | | | | | | | | | | | | | | | | |
| | Min | 12,011 | | 7,710 | 11,944 | 16,116 | 20,267 | | | | | | | | | | | | | | | | | | |
| | End | 17,673 | | 9,597 | 17,478 | 25,358 | 33,239 | | | | | | | | | | | | | | | | | | |
| G5x16-SR2 | Start | 26,024 | | | | | | | | | | | | | | | 18,825 | 20,272 | 21,720 | 23,167 | 24,615 | | | | |
| | Min | 10,595 | | | | | | | | | | | | | | | 6,768 | 7,560 | 8,343 | 9,121 | 9,894 | | | | |
| | End | 15,309 | | | | | | | | | | | | | | | 8,158 | 9,598 | 11,038 | 12,478 | 13,918 | | | | |
| G5x20-SR2 | Start | 25,963 | | | | | | | | | | | | | 21,031 | 25,655 | 30,280 | 34,906 | 37,219 | 39,532 | | | | | |
| | Min | 10,579 | | | | | | | | | | | | | 7,982 | 10,458 | 12,907 | 15,340 | 16,554 | 17,767 | | | | | |
| | End | 15,248 | | | | | | | | | | | | | 10,353 | 14,953 | 19,553 | 24,154 | 26,454 | 28,755 | | | | | |
| G5x24-SR2 | Start | 25,920 | | | | | | | 17,749 | 24,499 | 31,250 | 38,001 | | | | | | | | | | | | | |
| | Min | 10,567 | | | | | | | 6,188 | 9,846 | 13,420 | 16,967 | | | | | | | | | | | | | |
| | End | 15,205 | | | | | | | 7,088 | 13,802 | 20,517 | 27,232 | | | | | | | | | | | | | |
| G5x28-SR2 | Start | 25,732 | | | | | 17,213 | 21,985 | 31,530 | 41,075 | | | | | | | | | | | | | | | |
| | Min | 10,517 | | | | | 5,949 | 8,563 | 13,630 | 18,642 | | | | | | | | | | | | | | | |
| | End | 15,018 | | | | | 6,556 | 11,302 | 20,795 | 30,290 | | | | | | | | | | | | | | | |
| G5x32-SR2 | Start | 25,656 | | | 21,227 | 27,475 | 33,724 | 46,223 | | | | | | | | | | | | | | | | | |
| | Min | 10,497 | | | 8,170 | 11,505 | 14,800 | 21,350 | | | | | | | | | | | | | | | | | |
| | End | 14,943 | | | 10,547 | 16,763 | 22,978 | 35,410 | | | | | | | | | | | | | | | | | |
| G5x36-SR2 | Start | 25,580 | | 23,273 | 31,195 | 39,118 | 47,041 | | | | | | | | | | | | | | | | | | |
| | Min | 10,477 | | 9,286 | 13,485 | 17,647 | 21,793 | | | | | | | | | | | | | | | | | | |
| | End | 14,867 | | 12,583 | 20,463 | 28,343 | 36,224 | | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | | |
|----------------|-------------|------------------|--------------------------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|----------|--------|--------|--------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | | |
| G5x16-SR3 | Start | 20,927 | | | | | | | | | | | | | 15,470 | 18,364 | 19,812 | 21,259 | 22,706 | 24,154 | 25,602 | 27,049 | 9.9 | 13.8 | | |
| | Min | 8,710 | | | | | | | | | | | | | 5,836 | 7,390 | 8,160 | 8,927 | 9,692 | 10,454 | 11,217 | 11,976 | | | | |
| | End | 12,888 | | | | | | | | | | | | | 7,469 | 10,348 | 11,787 | 13,227 | 14,667 | 16,107 | 17,546 | 18,986 | | | | |
| G5x20-SR3 | Start | 20,866 | | | | | | | | 14,217 | 18,841 | 23,465 | 28,090 | 32,715 | 37,340 | 39,653 | 41,966 | | | | | | 6.2 | 11.3 | | |
| | Min | 8,694 | | | | | | | | 5,164 | 7,655 | 10,102 | 12,532 | 14,955 | 17,373 | 18,580 | 19,788 | | | | | | | | | |
| | End | 12,827 | | | | | | | | 6,222 | 10,822 | 15,421 | 20,021 | 24,622 | 29,222 | 31,523 | 33,823 | | | | | | | | | |
| G5x24-SR3 | Start | 20,822 | | | | | | 13,433 | 20,183 | 26,933 | 33,684 | 40,435 | | | | | | | | | | | 4.1 | 7.7 | | |
| | Min | 8,682 | | | | | | 4,737 | 8,373 | 11,929 | 15,465 | 18,991 | | | | | | | | | | | | | | |
| | End | 12,784 | | | | | | 5,443 | 12,157 | 18,871 | 25,586 | 32,301 | | | | | | | | | | | | | | |
| G5x28-SR3 | Start | 20,634 | | | | 14,876 | 19,648 | 24,419 | 33,964 | 43,509 | | | | | | | | | | | | 3.0 | 5.5 | | | |
| | Min | 8,633 | | | | 5,590 | 8,148 | 10,669 | 15,674 | 20,660 | | | | | | | | | | | | | | | | |
| | End | 12,597 | | | | 6,878 | 11,624 | 16,371 | 25,864 | 35,358 | | | | | | | | | | | | | | | | |
| G5x32-SR3 | Start | 20,558 | | | | 17,412 | 23,661 | 29,910 | 36,158 | 48,657 | | | | | | | | | | | | 2.3 | 4.2 | | | |
| | Min | 8,613 | | | | 6,974 | 10,285 | 13,566 | 16,836 | 23,359 | | | | | | | | | | | | | | | | |
| | End | 12,522 | | | | 9,401 | 15,616 | 21,831 | 28,047 | 40,479 | | | | | | | | | | | | | | | | |
| G5x36-SR3 | Start | 20,483 | | | | 17,785 | 25,707 | 33,630 | 41,552 | 49,476 | | | | | | | | | | | | 1.8 | 3.3 | | | |
| | Min | 8,593 | | | | 7,190 | 11,378 | 15,529 | 19,667 | 23,800 | | | | | | | | | | | | | | | | |
| | End | 12,446 | | | | 9,771 | 17,651 | 25,532 | 33,412 | 41,293 | | | | | | | | | | | | | | | | |
| G5x16-SR4 | Start | 17,450 | | | | | | | | | | | | | 11,684 | 14,578 | 17,472 | 20,367 | 21,814 | 23,261 | 24,709 | 26,156 | 27,604 | 29,052 | 8.3 | 13.8 |
| | Min | 7,319 | | | | | | | | | | | | | 4,267 | 5,829 | 7,366 | 8,893 | 9,653 | 10,413 | 11,172 | 11,929 | 12,687 | 13,444 | | |
| | End | 10,896 | | | | | | | | | | | | | 5,169 | 8,047 | 10,926 | 13,805 | 15,244 | 16,684 | 18,124 | 19,564 | 21,003 | 22,443 | | |
| G5x20-SR4 | Start | 17,389 | | | | | | | | 11,595 | 16,219 | 20,843 | 25,467 | 30,092 | 34,717 | 39,343 | 41,655 | 43,968 | | | | | | 5.2 | 11.3 | |
| | Min | 7,303 | | | | | | | | 4,230 | 6,714 | 9,154 | 11,579 | 13,997 | 16,412 | 18,825 | 20,031 | 21,236 | | | | | | | | |
| | End | 10,836 | | | | | | | | | 5,080 | 9,679 | 14,278 | 18,878 | 23,478 | 28,078 | 32,679 | 34,980 | 37,280 | | | | | | | |
| G5x24-SR4 | Start | 17,345 | | | | | | | | | | | | | | | | | | | | | | | 3.6 | 7.7 |
| | Min | 7,292 | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 10,792 | | | | | | | | | | | | | | | | | | | | | | | | |
| G5x28-SR4 | Start | 17,158 | | | | | | | | | | | | | | | | | | | | | | | 2.6 | 5.5 |
| | Min | 7,242 | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 10,606 | | | | | | | | | | | | | | | | | | | | | | | | |
| G5x32-SR4 | Start | 17,082 | | | | | | | | | | | | | | | | | | | | | | | 1.9 | 4.2 |
| | Min | 7,222 | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 10,530 | | | | | | | | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | |
|----------------|-------------|------------------|--------------------------|---|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|----------|------|-----|------|-----|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | |
| G7x24-SR1 | Start | 57,293 | | | | | | | | | | | | 39,138 | 47,393 | 55,649 | 59,777 | 63,905 | 68,034 | 72,163 | | | 9.5 | 12.3 | |
| | Min | 23,399 | | | | | | | | | | | | 13,688 | 18,197 | 22,613 | 24,805 | 26,987 | 29,165 | 31,338 | | | | | |
| | End | 33,978 | | | | | | | | | | | | 15,949 | 24,158 | 32,368 | 36,473 | 40,578 | 44,683 | 48,788 | | | | | |
| G7x28-SR1 | Start | 57,065 | | | | | | | | | | 46,435 | 58,124 | 69,815 | | | | | | | | | | 6.7 | 8.7 |
| | Min | 23,339 | | | | | | | | | | 17,761 | 24,010 | 30,187 | | | | | | | | | | | |
| | End | 33,752 | | | | | | | | | | 23,206 | 34,829 | 46,454 | | | | | | | | | | | |
| G7x32-SR1 | Start | 56,972 | | | | | | | 41,112 | 56,429 | 71,747 | | | | | | | | | | | | | 5.1 | 6.6 |
| | Min | 23,314 | | | | | | | 14,879 | 23,124 | 31,218 | | | | | | | | | | | | | | |
| | End | 33,660 | | | | | | | 17,913 | 33,144 | 48,375 | | | | | | | | | | | | | | |
| G7x36-SR1 | Start | 56,879 | | | | | | 42,160 | 61,589 | 81,021 | | | | | | | | | | | | | | 4.1 | 5.2 |
| | Min | 23,289 | | | | | | 15,470 | 25,874 | 36,104 | | | | | | | | | | | | | | | |
| | End | 33,567 | | | | | | 18,954 | 38,275 | 57,596 | | | | | | | | | | | | | | | |
| G7xT28-SR1 | Start | 56,359 | | | | | 45,715 | 57,400 | 80,772 | | | | | | | | | | | | | | | 3.4 | 4.3 |
| | Min | 23,152 | | | | | 17,567 | 23,818 | 36,141 | | | | | | | | | | | | | | | | |
| | End | 33,050 | | | | | 22,490 | 34,109 | 57,349 | | | | | | | | | | | | | | | | |
| G7x24-SR2 | Start | 50,582 | | | | | | | | | | 34,734 | 42,989 | 51,244 | 59,500 | 63,628 | 67,757 | 71,885 | 76,014 | | | | 8.4 | 12.3 | |
| | Min | 20,720 | | | | | | | | | | 12,256 | 16,747 | 21,149 | 25,512 | 27,686 | 29,855 | 32,021 | 34,187 | | | | | | |
| | End | 30,149 | | | | | | | | | | 14,411 | 22,620 | 30,828 | 39,038 | 43,143 | 47,248 | 51,353 | 55,458 | | | | | | |
| G7x28-SR2 | Start | 50,355 | | | | | | | | 38,598 | 50,286 | 61,976 | 73,666 | | | | | | | | | | | 5.9 | 8.7 |
| | Min | 20,659 | | | | | | | | 14,455 | 20,720 | 26,898 | 33,041 | | | | | | | | | | | | |
| | End | 29,923 | | | | | | | | 18,254 | 29,876 | 41,499 | 53,124 | | | | | | | | | | | | |
| G7x32-SR2 | Start | 50,262 | | | | | | | 44,964 | 60,281 | 75,599 | | | | | | | | | | | | | 4.6 | 6.6 |
| | Min | 20,635 | | | | | | | 17,901 | 26,018 | 34,067 | | | | | | | | | | | | | | |
| | End | 29,830 | | | | | | | 24,583 | 39,814 | 55,046 | | | | | | | | | | | | | | |
| G7x36-SR2 | Start | 50,168 | | | | | 36,297 | 46,011 | 65,441 | 84,872 | | | | | | | | | | | | | | 3.6 | 5.2 |
| | Min | 20,610 | | | | | 13,233 | 18,476 | 28,751 | 38,935 | | | | | | | | | | | | | | | |
| | End | 29,738 | | | | | 15,965 | 25,625 | 44,945 | 64,267 | | | | | | | | | | | | | | | |
| G7xT28-SR2 | Start | 49,648 | | | | 37,882 | 49,566 | 61,252 | 84,624 | | | | | | | | | | | | | | | 3.0 | 4.3 |
| | Min | 20,472 | | | | 14,261 | 20,530 | 26,707 | 38,972 | | | | | | | | | | | | | | | | |
| | End | 29,221 | | | | 17,541 | 29,160 | 40,779 | 64,020 | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | |
|-----------------------|-------------|------------------|--------------------------|---|-----|---|-----|---|---|---|---|---|---|----|----|------|----|------|----|------------|----------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 |
| Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | | |
| G7x20-SR3 | Start | 41,718 | | | | | | | | | | | | | | | | | | | | 10.1 | 13.8 |
| | Min | 17,171 | | | | | | | | | | | | | | | | | | | | | |
| | End | 25,110 | | | | | | | | | | | | | | | | | | | | | |
| G7x24-SR3 | Start | 41,661 | | | | | | | | | | | | | | | | | | | | 7.0 | 12.3 |
| | Min | 17,156 | | | | | | | | | | | | | | | | | | | | | |
| | End | 25,053 | | | | | | | | | | | | | | | | | | | | | |
| G7x28-SR3 | Start | 41,433 | | | | | | | | | | | | | | | | | | | | 4.9 | 8.7 |
| | Min | 17,096 | | | | | | | | | | | | | | | | | | | | | |
| | End | 24,827 | | | | | | | | | | | | | | | | | | | | | |
| G7x32-SR3 | Start | 41,340 | | | | | | | | | | | | | | | | | | | | 3.7 | 6.6 |
| | Min | 17,071 | | | | | | | | | | | | | | | | | | | | | |
| | End | 24,734 | | | | | | | | | | | | | | | | | | | | | |
| G7x36-SR3 | Start | 41,247 | | | | | | | | | | | | | | | | | | | | 3.0 | 5.2 |
| | Min | 17,046 | | | | | | | | | | | | | | | | | | | | | |
| | End | 24,642 | | | | | | | | | | | | | | | | | | | | | |
| G7xT28-SR3 | Start | 40,727 | | | | | | | | | | | | | | | | | | | | 2.5 | 4.3 |
| | Min | 16,909 | | | | | | | | | | | | | | | | | | | | | |
| | End | 24,125 | | | | | | | | | | | | | | | | | | | | | |
| G7x20-SR4 | Start | 35,007 | | | | | | | | | | | | | | | | | | | | 8.5 | 13.8 |
| | Min | 14,492 | | | | | | | | | | | | | | | | | | | | | |
| | End | 21,280 | | | | | | | | | | | | | | | | | | | | | |
| G7x24-SR4 | Start | 34,950 | | | | | | | | | | | | | | | | | | | | 5.9 | 12.3 |
| | Min | 14,477 | | | | | | | | | | | | | | | | | | | | | |
| | End | 21,224 | | | | | | | | | | | | | | | | | | | | | |
| G7x28-SR4 | Start | 34,723 | | | | | | | | | | | | | | | | | | | | 4.1 | 8.7 |
| | Min | 14,416 | | | | | | | | | | | | | | | | | | | | | |
| | End | 20,998 | | | | | | | | | | | | | | | | | | | | | |
| G7x32-SR4 | Start | 34,630 | | | | | | | | | | | | | | | | | | | | 3.2 | 6.6 |
| | Min | 14,392 | | | | | | | | | | | | | | | | | | | | | |
| | End | 20,905 | | | | | | | | | | | | | | | | | | | | | |
| G7x36-SR4 | Start | 34,536 | | | | | | | | | | | | | | | | | | | | 2.5 | 5.2 |
| | Min | 14,367 | | | | | | | | | | | | | | | | | | | | | |
| | End | 20,812 | | | | | | | | | | | | | | | | | | | | | |
| G7XT28-SR4 | Start | 34,016 | | | | | | | | | | | | | | | | | | | | 2.1 | 4.3 |
| | Min | 14,229 | | | | | | | | | | | | | | | | | | | | | |
| | End | 20,295 | | | | | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | |
|----------------|-------------|------------------|--------------------------|---|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|------------|----------|--------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | |
| G8x24-SR1 | Start | 84,709 | | | | | | | | | | | | | | | 53,300 | 58,153 | 63,007 | 67,860 | 72,714 | 77,568 | 11.9 | 13.8 |
| | Min | 36,543 | | | | | | | | | | | | | | | 19,972 | 22,591 | 25,188 | 27,771 | 30,344 | 32,909 | | |
| | End | 56,810 | | | | | | | | | | | | | | | 25,606 | 30,433 | 35,260 | 40,088 | 44,916 | 49,744 | | |
| G8x28-SR1 | Start | 84,436 | | | | | | | | | | | 51,595 | 65,369 | 79,143 | 92,919 | 99,808 | 106,697 | 113,586 | | | | 8.4 | 11.9 |
| | Min | 36,471 | | | | | | | | | | | 19,147 | 26,552 | 33,847 | 41,095 | 44,711 | 48,321 | 51,927 | | | | | |
| | End | 56,539 | | | | | | | | | | | 23,910 | 37,610 | 51,311 | 65,013 | 71,865 | 78,717 | 85,569 | | | | | |
| G8x32-SR1 | Start | 84,325 | | | | | | | | | | | 67,807 | 85,879 | 103,952 | 122,027 | | | | | | | 6.4 | 9.0 |
| | Min | 36,442 | | | | | | | | | | | 27,861 | 37,408 | 46,896 | 56,357 | | | | | | | | |
| | End | 56,429 | | | | | | | | | | | 40,035 | 58,010 | 75,987 | 93,965 | | | | | | | | |
| G8x36-SR1 | Start | 84,215 | | | | | | | | 55,923 | 78,866 | 101,810 | 124,756 | | | | | | | | | | 5.0 | 7.1 |
| | Min | 36,413 | | | | | | | | 21,527 | 33,730 | 45,789 | 57,796 | | | | | | | | | | | |
| | End | 56,319 | | | | | | | | 28,215 | 51,035 | 73,856 | 96,680 | | | | | | | | | | | |
| G8x40-SR1 | Start | 84,105 | | | | | | | | 54,661 | 83,050 | 111,440 | | | | | | | | | | | 4.1 | 5.8 |
| | Min | 36,384 | | | | | | | | 20,866 | 35,952 | 50,846 | | | | | | | | | | | | |
| | End | 56,209 | | | | | | | | 26,960 | 55,197 | 83,435 | | | | | | | | | | | | |
| G8xT32-SR1 | Start | 83,324 | | | | | | 66,781 | 84,846 | 120,979 | | | | | | | | | | | | | 3.2 | 4.5 |
| | Min | 36,179 | | | | | | 27,589 | 37,136 | 56,083 | | | | | | | | | | | | | | |
| | End | 55,433 | | | | | | 39,014 | 56,983 | 92,923 | | | | | | | | | | | | | | |
| G8xT36-SR1 | Start | 83,103 | | | 54,797 | 77,734 | 100,671 | 123,610 | | | | | | | | | | | | | | | 2.6 | 3.6 |
| | Min | 36,121 | | | 21,223 | 33,433 | 45,491 | 57,497 | | | | | | | | | | | | | | | | |
| | End | 55,214 | | | 27,094 | 49,909 | 72,724 | 95,540 | | | | | | | | | | | | | | | | |
| G8x24-SR2 | Start | 68,164 | | | | | | | | | | | | | 47,445 | 57,151 | 62,004 | 66,857 | 71,710 | 76,564 | 81,417 | 86,271 | 9.7 | 13.8 |
| | Min | 30,151 | | | | | | | | | | | | | 19,333 | 24,469 | 27,024 | 29,573 | 32,120 | 34,662 | 37,202 | 39,742 | | |
| | End | 48,154 | | | | | | | | | | | | | 27,576 | 37,229 | 42,057 | 46,884 | 51,711 | 56,539 | 61,367 | 66,195 | | |
| G8x28-SR2 | Start | 67,891 | | | | | | | | | | | | 46,527 | 60,299 | 74,072 | 87,847 | 101,623 | 108,511 | 115,400 | 122,289 | | 6.8 | 11.9 |
| | Min | 30,079 | | | | | | | | | | | | 18,942 | 26,225 | 33,460 | 40,671 | 47,867 | 51,465 | 55,060 | 58,652 | | | |
| | End | 47,882 | | | | | | | | | | | | 26,662 | 40,361 | 54,061 | 67,762 | 81,464 | 88,316 | 95,168 | 102,020 | | | |
| G8x32-SR2 | Start | 67,780 | | | | | | | | 40,371 | 58,440 | 76,510 | 94,582 | 112,656 | 130,731 | | | | | | | | 5.2 | 9.0 |
| | Min | 30,050 | | | | | | | | 15,664 | 25,262 | 34,751 | 44,202 | 53,640 | 63,064 | | | | | | | | | |
| | End | 47,773 | | | | | | | | 20,540 | 38,512 | 56,486 | 74,461 | 92,438 | 110,416 | | | | | | | | | |
| G8x36-SR2 | Start | 67,670 | | | | | | | | 41,686 | 64,627 | 87,569 | 110,514 | 133,460 | | | | | | | | | 4.1 | 7.1 |
| | Min | 30,021 | | | | | | | | 16,390 | 28,535 | 40,555 | 52,538 | 64,500 | | | | | | | | | | |
| | End | 47,663 | | | | | | | | 21,847 | 44,666 | 67,486 | 90,307 | 113,131 | | | | | | | | | | |
| G8x40-SR2 | Start | 67,559 | | | | | | 49,171 | 63,365 | 91,754 | 120,144 | | | | | | | | | | | | 3.3 | 5.8 |
| | Min | 29,992 | | | | | | 20,403 | 27,893 | 42,759 | 57,575 | | | | | | | | | | | | | |
| | End | 47,553 | | | | | | 29,293 | 43,410 | 71,647 | 99,886 | | | | | | | | | | | | | |
| G8xT32-SR2 | Start | 66,779 | | | 39,356 | 57,420 | 75,484 | 93,550 | 129,683 | | | | | | | | | | | | | | 2.6 | 4.5 |
| | Min | 29,788 | | | 15,390 | 24,994 | 34,482 | 43,933 | 62,791 | | | | | | | | | | | | | | | |
| | End | 46,777 | | | 19,530 | 37,497 | 55,465 | 73,434 | 109,374 | | | | | | | | | | | | | | | |
| G8xT36-SR2 | Start | 66,558 | | | 40,564 | 63,500 | 86,437 | 109,375 | 132,314 | | | | | | | | | | | | | | 2.1 | 3.6 |
| | Min | 29,730 | | | 16,090 | 28,240 | 40,260 | 52,241 | 64,202 | | | | | | | | | | | | | | | |
| | End | 46,558 | | | 20,731 | 43,545 | 66,360 | 89,175 | 111,991 | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | |
|----------------|-------------|------------------|--------------------------|--------|--------|--------|---------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|------------|----------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | |
| G8x24-SR3 | Start | 57,796 | | | | | | | | | | | | | | | | | | | | 8.2 | 13.8 |
| | Min | 25,602 | | | | | | | | | | | | | | | | | | | | | |
| | End | 40,879 | | | | | | | | | | | | | | | | | | | | | |
| G8x28-SR3 | Start | 57,523 | | | | | | | | 40,070 | 53,841 | 67,613 | 81,386 | 95,161 | 108,937 | 115,826 | 122,715 | 129,604 | | | | 5.8 | 11.9 |
| | Min | 25,531 | | | | | | | | 16,441 | 23,715 | 30,938 | 38,140 | 45,335 | 52,519 | 56,111 | 59,703 | 63,295 | | | | | |
| | End | 40,608 | | | | | | | | | 23,274 | 36,971 | 50,669 | 64,369 | 78,070 | 91,773 | 98,625 | 105,477 | 112,329 | | | | |
| G8x32-SR3 | Start | 57,412 | | | | | | | | 47,685 | 65,754 | 83,825 | 101,896 | 119,970 | 138,045 | | | | | | | 4.4 | 9.0 |
| | Min | 25,502 | | | | | | | | 20,491 | 29,980 | 39,428 | 48,860 | 58,284 | 67,704 | | | | | | | | |
| | End | 40,498 | | | | | | | | | 30,848 | 48,821 | 66,794 | 84,770 | 102,747 | 120,725 | | | | | | | |
| G8x36-SR3 | Start | 57,302 | | | | | | 37,530 | 49,000 | 71,941 | 94,884 | 117,828 | 140,774 | | | | | | | | | 3.4 | 7.1 |
| | Min | 25,473 | | | | | | 15,127 | 21,203 | 33,237 | 45,219 | 57,181 | 69,138 | | | | | | | | | | |
| | End | 40,389 | | | | | | | 20,747 | 32,156 | 54,974 | 77,794 | 100,616 | 123,439 | | | | | | | | | |
| G8x40-SR3 | Start | 57,192 | | | | | | | | 42,292 | 56,485 | 70,679 | 99,068 | 127,458 | | | | | | | | 2.8 | 5.8 |
| | Min | 25,444 | | | | | | | | 17,682 | 25,160 | 32,596 | 47,419 | 62,218 | | | | | | | | | |
| | End | 40,279 | | | | | | | | | 25,484 | 39,601 | 53,719 | 81,956 | 110,195 | | | | | | | | |
| G8xT32-SR3 | Start | 56,411 | | | 46,670 | 64,734 | 82,799 | 100,864 | 136,997 | | | | | | | | | | | | | 2.2 | 4.5 |
| | Min | 25,239 | | | 20,224 | 29,713 | 39,161 | 48,591 | 67,431 | | | | | | | | | | | | | | |
| | End | 39,503 | | | 29,839 | 47,806 | 65,774 | 83,743 | 119,683 | | | | | | | | | | | | | | |
| G8xT36-SR3 | Start | 56,190 | | 47,878 | 70,814 | 93,751 | 116,689 | 139,628 | | | | | | | | | | | | | | 1.7 | 3.6 |
| | Min | 25,182 | | 20,908 | 32,942 | 44,925 | 56,885 | 68,840 | | | | | | | | | | | | | | | |
| | End | 39,283 | | 31,040 | 53,854 | 76,668 | 99,483 | 122,300 | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | |
|----------------|-------------|------------------|--------------------------|---|-----|---|-----|---|---|---|---|---|---|----|---------|---------|---------|---------|----|------------|----------|------|------|--|--|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | |
| G10x32-SR1 | Start | 195,285 | | | | | | | | | | | | | | | | | | | | 11.4 | 13.8 | | |
| | Min | 78,991 | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 113,556 | | | | | | | | | | | | | | | | | | | | | | | |
| G10x36-SR1 | Start | 195,140 | | | | | | | | | | | | | 152,769 | 182,741 | 212,716 | 227,704 | | | | 8.9 | 10.9 | | |
| | Min | 78,952 | | | | | | | | | | | | | 56,474 | 72,627 | 88,567 | 96,492 | | | | | | | |
| | End | 113,412 | | | | | | | | | | | | | 71,337 | 101,153 | 130,970 | 145,880 | | | | | | | |
| G10x40-SR1 | Start | 194,995 | | | | | | | | | | | | | 142,764 | 179,887 | 217,013 | | | | | 7.2 | 8.8 | | |
| | Min | 78,914 | | | | | | | | | | | | | 51,007 | 71,121 | 90,855 | | | | | | | | |
| | End | 113,268 | | | | | | | | | | | | | 61,385 | 98,314 | 135,245 | | | | | | | | |
| G10xT32-SR1 | Start | 193,998 | | | | | | | | | | | | | 164,672 | 211,802 | | | | | | 5.7 | 6.9 | | |
| | Min | 78,649 | | | | | | | | | | | | | 63,279 | 88,437 | | | | | | | | | |
| | End | 112,277 | | | | | | | | | | | | | 83,178 | 130,061 | | | | | | | | | |
| G10xT36-SR1 | Start | 193,708 | | | | | | | | | | | | | 181,254 | 241,181 | | | | | | 4.5 | 5.5 | | |
| | Min | 78,572 | | | | | | | | | | | | | 72,231 | 103,997 | | | | | | | | | |
| | End | 111,988 | | | | | | | | | | | | | 99,673 | 159,286 | | | | | | | | | |
| G10xT40-SR1 | Start | 193,418 | | | | | | | | | | | | | 141,158 | 178,271 | 252,503 | | | | | 3.6 | 4.4 | | |
| | Min | 78,496 | | | | | | | | | | | | | 50,564 | 70,690 | 110,009 | | | | | | | | |
| | End | 111,700 | | | | | | | | | | | | | 59,787 | 96,706 | 170,549 | | | | | | | | |
| G10x28-SR2 | Start | 157,461 | | | | | | | | | | | | | | | | | | | | 12.1 | 13.8 | | |
| | Min | 64,906 | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 95,405 | | | | | | | | | | | | | | | | | | | | | | | |
| G10x32-SR2 | Start | 157,316 | | | | | | | | | | | | | | | | | | | | 9.2 | 13.8 | | |
| | Min | 64,867 | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 95,260 | | | | | | | | | | | | | | | | | | | | | | | |
| G10x36-SR2 | Start | 157,171 | | | | | | | | | | | | | | | | | | | | 7.2 | 10.9 | | |
| | Min | 64,829 | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 95,116 | | | | | | | | | | | | | | | | | | | | | | | |
| G10x40-SR2 | Start | 157,026 | | | | | | | | | | | | | | | | | | | | 5.8 | 8.8 | | |
| | Min | 64,790 | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 94,972 | | | | | | | | | | | | | | | | | | | | | | | |
| G10xT32-SR2 | Start | 156,029 | | | | | | | | | | | | | | | | | | | | 4.6 | 6.9 | | |
| | Min | 64,526 | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 93,981 | | | | | | | | | | | | | | | | | | | | | | | |
| G10xT36-SR2 | Start | 155,739 | | | | | | | | | | | | | | | | | | | | 3.6 | 5.5 | | |
| | Min | 64,449 | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 93,693 | | | | | | | | | | | | | | | | | | | | | | | |
| G10xT40-SR2 | Start | 155,449 | | | | | | | | | | | | | | | | | | | | 2.9 | 4.4 | | |
| | Min | 64,372 | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 93,404 | | | | | | | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | | | | | |
|----------------|-------------|------------------|--------------------------|---|-----|---|-----|---|---|---|---|---|---|----|---------|---------|---------|---------|---------|------------|----------|---------|---------|---------|---------|---------|---------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | | | | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G10x28-SR3 | Start | 143,587 | | | | | | | | | | | | | | | | | | | 114,400 | 123,364 | 132,327 | 141,292 | 150,257 | 159,222 | 168,187 | 11.0 | 13.8 |
| | Min | 57,025 | | | | | | | | | | | | | | | | | | | 41,522 | 46,413 | 51,253 | 56,061 | 60,847 | 65,610 | 70,362 | | |
| | End | 79,971 | | | | | | | | | | | | | | | | | | | | 50,992 | 59,908 | 68,825 | 77,742 | 86,660 | 95,578 | | |
| G10x32-SR3 | Start | 143,442 | | | | | | | | | | | | | 105,652 | 129,221 | 152,792 | 176,365 | 188,153 | 199,940 | 211,729 | 223,518 | 235,307 | 247,097 | 8.3 | 13.8 | | | |
| | Min | 56,986 | | | | | | | | | | | | | 36,695 | 49,594 | 62,207 | 74,699 | 80,917 | 87,127 | 93,322 | 99,512 | 105,701 | 111,874 | | | | | |
| | End | 79,827 | | | | | | | | | | | | | 42,290 | 65,735 | 89,183 | 112,632 | 124,358 | 136,084 | 147,810 | 159,537 | 171,265 | 182,993 | | | | | |
| G10x36-SR3 | Start | 143,297 | | | | | | | | | | | | | | 126,740 | 156,708 | 186,678 | 216,651 | 246,626 | 261,614 | | | | | | 6.6 | 10.9 | |
| | Min | 56,948 | | | | | | | | | | | | | 48,273 | 64,305 | 80,156 | 95,920 | 111,640 | 119,487 | | | | | | | | | |
| | End | 79,683 | | | | | | | | | | | | | 63,267 | 93,078 | 122,891 | 152,706 | 182,524 | 197,434 | | | | | | | | | |
| G10x40-SR3 | Start | 143,152 | | | | | | | | | | | | | | 102,435 | 139,553 | 176,674 | 213,797 | 250,923 | | | | | | | 5.3 | 8.8 | |
| | Min | 56,909 | | | | | | | | | | | | | 34,930 | 55,186 | 74,898 | 94,439 | 113,906 | | | | | | | | | | |
| | End | 79,539 | | | | | | | | | | | | | 39,090 | 76,013 | 112,939 | 149,868 | 186,799 | | | | | | | | | | |
| G10xT32-SR3 | Start | 142,156 | | | | | | | | | | | | | | 104,334 | 151,456 | 198,582 | 245,712 | | | | | | | | 4.1 | 6.9 | |
| | Min | 56,643 | | | | | | | | | | | | | 36,323 | 61,853 | 86,770 | 111,512 | | | | | | | | | | | |
| | End | 78,548 | | | | | | | | | | | | | 40,978 | 87,853 | 134,732 | 181,615 | | | | | | | | | | | |
| G10xT36-SR3 | Start | 141,866 | | | | | | | | | | | | | | 125,281 | 155,241 | 215,163 | 275,090 | | | | | | | | 3.3 | 5.5 | |
| | Min | 56,566 | | | | | | | | | | | | | 47,880 | 63,915 | 95,531 | 126,939 | | | | | | | | | | | |
| | End | 78,260 | | | | | | | | | | | | | 61,816 | 91,618 | 151,227 | 210,840 | | | | | | | | | | | |
| G10xT40-SR3 | Start | 141,576 | | | | | | | | | | | | | | | 100,844 | 137,955 | 175,067 | 212,181 | 286,412 | | | | | | | 2.6 | 4.4 |
| | Min | 56,489 | | | | | | | | | | | | | | 34,475 | 54,758 | 74,473 | 94,016 | 132,907 | | | | | | | | | |
| | End | 77,971 | | | | | | | | | | | | | | 37,506 | 74,423 | 111,341 | 148,260 | 222,102 | | | | | | | | | |
| G10x28-SR4 | Start | 115,062 | | | | | | | | | | | | | | | | | | | | | | | | 8.8 | 13.8 | | |
| | Min | 46,723 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 67,166 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G10x32-SR4 | Start | 114,917 | | | | | | | | | | | | | | | | | | | | | | | 6.7 | 13.8 | | | |
| | Min | 46,684 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 67,022 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G10x36-SR4 | Start | 114,772 | | | | | | | | | | | | | | | | | | | | | | | 5.3 | 10.9 | | | |
| | Min | 46,646 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 66,878 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G10x40-SR4 | Start | 114,627 | | | | | | | | | | | | | | | | | | | | | | | 4.1 | 8.8 | | | |
| | Min | 46,607 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 66,733 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G10xT32-SR4 | Start | 113,630 | | | | | | | | | | | | | | | | | | | | | | | 3.4 | 6.9 | | | |
| | Min | 46,343 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 65,742 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G10xT36-SR4 | Start | 113,340 | | | | | | | | | | | | | | | | | | | | | | | 2.6 | 5.5 | | | |
| | Min | 46,266 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 65,454 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G10xT40-SR4 | Start | 113,050 | | | | | | | | | | | | | | | | | | | | | | | 2.1 | 4.4 | | | |
| | Min | 46,189 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | End | 65,166 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | |
|----------------|-------------|------------------|--------------------------|---|-----|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|----------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | 13.5 | | | 14 |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | |
| G13x40-SR1 | Start | 434,082 | | | | | | | | | | | | | | | 333,233 | 356,949 | 380,665 | 404,382 | 428,100 | 12.5 | 13.8 |
| | Min | 168,452 | | | | | | | | | | | | | | | 113,871 | 127,087 | 140,110 | 152,987 | 165,776 | | |
| | End | 230,379 | | | | | | | | | | | | | | | 130,166 | 153,763 | 177,360 | 200,957 | 224,556 | | |
| G13x44-SR1 | Start | 433,885 | | | | | | | | | | | 339,861 | 397,456 | 426,255 | 455,054 | | | | | | 10.3 | 11.4 |
| | Min | 168,399 | | | | | | | | | | | 117,620 | 149,264 | 164,809 | 180,250 | | | | | | | |
| | End | 230,183 | | | | | | | | | | | 136,761 | 194,066 | 222,720 | 251,375 | | | | | | | |
| G13x48-SR1 | Start | 433,697 | | | | | | | | | | | 382,328 | 451,059 | | | | | | | | 8.6 | 9.7 |
| | Min | 168,349 | | | | | | | | | | | 141,059 | 178,137 | | | | | | | | | |
| | End | 229,997 | | | | | | | | | | | 179,014 | 247,400 | | | | | | | | | |
| G13x52-SR1 | Start | 433,510 | | | | | | | | | | 329,444 | 410,277 | 491,113 | | | | | | | | 7.4 | 8.3 |
| | Min | 168,299 | | | | | | | | | | 111,809 | 156,238 | 199,517 | | | | | | | | | |
| | End | 229,810 | | | | | | | | | | 126,396 | 206,822 | 287,252 | | | | | | | | | |
| G13xT40-SR1 | Start | 432,016 | | | | | | | | | 331,051 | 425,875 | | | | | | | | | | 6.3 | 6.9 |
| | Min | 167,898 | | | | | | | | | 113,256 | 165,180 | | | | | | | | | | | |
| | End | 228,324 | | | | | | | | | 127,995 | 222,342 | | | | | | | | | | | |
| G13xT44-SR1 | Start | 431,621 | | | | | | | 337,509 | 452,663 | | | | | | | | | | | | 5.2 | 5.7 |
| | Min | 167,792 | | | | | | | 116,957 | 179,613 | | | | | | | | | | | | | |
| | End | 227,931 | | | | | | | 134,420 | 248,995 | | | | | | | | | | | | | |
| G13xT48-SR1 | Start | 431,246 | | | | | 311,088 | 448,512 | | | | | | | | | | | | | | 4.1 | 4.8 |
| | Min | 167,692 | | | | | 101,974 | 177,457 | | | | | | | | | | | | | | | |
| | End | 227,559 | | | | | 108,132 | 244,865 | | | | | | | | | | | | | | | |
| G13xT52-SR1 | Start | 430,871 | | | | | 326,755 | 407,572 | 569,211 | | | | | | | | | | | | | 3.7 | 4.1 |
| | Min | 167,591 | | | | | 111,039 | 155,508 | 241,622 | | | | | | | | | | | | | | |
| | End | 227,186 | | | | | 123,720 | 204,131 | 364,958 | | | | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | | | | | |
|----------------|-------------|------------------|--------------------------|---|-----|---|-----|---|---|---|---|---|---|----|---------|---------|---------|---------|---------|------------|----------|---------|---------|---------|---------|---------|---------|------|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | | | | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | | | | | |
| G13x40-SR2 | Start | 374,651 | | | | | | | | | | | | | | | | | | | 315,513 | 339,227 | 362,941 | 386,657 | 410,373 | 434,090 | 457,808 | 10.8 | 13.8 |
| | Min | 146,104 | | | | | | | | | | | | | | | | | | | 114,558 | 127,489 | 140,291 | 153,012 | 165,674 | 178,277 | 190,853 | | |
| | End | 200,823 | | | | | | | | | | | | | | | | | | | | 142,094 | 165,688 | 189,283 | 212,880 | 236,477 | 260,074 | | |
| G13x44-SR2 | Start | 374,454 | | | | | | | | | | | | | 311,978 | 369,569 | 427,164 | 455,963 | 484,762 | | | | | | | | | 8.9 | 11.4 |
| | Min | 146,051 | | | | | | | | | | | | | 112,648 | 143,874 | 174,620 | 189,900 | 205,132 | | | | | | | | | | |
| | End | 200,627 | | | | | | | | | | | | | 138,576 | 195,878 | 253,183 | 281,837 | 310,492 | | | | | | | | | | |
| G13x48-SR2 | Start | 374,266 | | | | | | | | | | | | | 274,585 | 343,309 | 412,036 | 480,767 | | | | | | | | | | 7.4 | 9.7 |
| | Min | 146,001 | | | | | | | | | | | | | 91,787 | 129,746 | 166,605 | 203,038 | | | | | | | | | | | |
| | End | 200,441 | | | | | | | | | | | | | 101,372 | 169,750 | 238,131 | 306,517 | | | | | | | | | | | |
| G13x52-SR2 | Start | 374,079 | | | | | | | | | | | | | 278,324 | 359,152 | 439,984 | 520,821 | | | | | | | | | | 6.3 | 8.3 |
| | Min | 145,950 | | | | | | | | | | | | | 93,943 | 138,329 | 181,474 | 224,187 | | | | | | | | | | | |
| | End | 200,254 | | | | | | | | | | | | | 105,091 | 185,513 | 265,939 | 346,369 | | | | | | | | | | | |
| G13xT40-SR2 | Start | 372,585 | | | | | | | | | | | | | 360,759 | 455,583 | | | | | | | | | | | | 5.4 | 6.9 |
| | Min | 145,550 | | | | | | | | | | | | | 139,706 | 190,265 | | | | | | | | | | | | | |
| | End | 198,768 | | | | | | | | | | | | | 187,112 | 281,459 | | | | | | | | | | | | | |
| G13xT44-SR2 | Start | 372,190 | | | | | | | | | | | | | 367,216 | 482,371 | | | | | | | | | | | | 4.5 | 5.7 |
| | Min | 145,444 | | | | | | | | | | | | | 143,243 | 204,500 | | | | | | | | | | | | | |
| | End | 198,375 | | | | | | | | | | | | | 193,537 | 308,112 | | | | | | | | | | | | | |
| G13xT48-SR2 | Start | 371,815 | | | | | | | | | | | | | 272,087 | 340,796 | 478,220 | | | | | | | | | | | 3.7 | 4.8 |
| | Min | 145,344 | | | | | | | | | | | | | 91,059 | 129,068 | 202,365 | | | | | | | | | | | | |
| | End | 198,002 | | | | | | | | | | | | | 98,886 | 167,250 | 303,982 | | | | | | | | | | | | |
| G13xT52-SR2 | Start | 371,440 | | | | | | | | | | | | | 275,648 | 356,463 | 437,280 | 598,919 | | | | | | | | | | 3.2 | 4.1 |
| | Min | 145,243 | | | | | | | | | | | | | 93,177 | 137,604 | 180,757 | 265,976 | | | | | | | | | | | |
| | End | 197,630 | | | | | | | | | | | | | 102,429 | 182,838 | 263,248 | 424,075 | | | | | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | | |
|----------------|-------------|------------------|--------------------------|---|-----|---|-----|---|---|---|---|---|---------|---------|---------|---------|---------|---------|---------|------------|----------|---------|---------|-----|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | | |
| G13x40-SR3 | Start | 312,240 | | | | | | | | | | | | | 256,186 | 303,608 | 351,033 | 374,747 | 398,462 | 422,177 | 445,893 | 469,610 | 493,328 | 9.0 | 13.8 |
| | Min | 121,251 | | | | | | | | | | | | | 91,194 | 117,020 | 142,390 | 154,988 | 167,539 | 180,073 | 192,569 | 205,065 | 217,520 | | |
| | End | 165,484 | | | | | | | | | | | | | 109,805 | 156,988 | 204,175 | 227,770 | 251,365 | 274,961 | 298,558 | 322,156 | 345,754 | | |
| G13x44-SR3 | Start | 312,043 | | | | | | | | | | | | 232,326 | 289,910 | 347,498 | 405,089 | 462,684 | 491,483 | 520,283 | 7.4 | 11.4 | | | |
| | Min | 121,198 | | | | | | | | | | | | 77,852 | 109,649 | 140,537 | 171,069 | 201,439 | 216,574 | 231,697 | | | | | |
| | End | 165,288 | | | | | | | | | | | | 86,065 | 143,359 | 200,657 | 257,959 | 315,264 | 343,918 | 372,573 | | | | | |
| G13x48-SR3 | Start | 311,855 | | | | | | | | | | | 241,386 | 310,105 | 378,829 | 447,556 | 516,288 | 6.2 | 9.7 | | | | | | |
| | Min | 121,148 | | | | | | | | | | | 83,007 | 120,560 | 157,202 | 193,489 | 229,618 | | | | | | | | |
| | End | 165,102 | | | | | | | | | | | 95,079 | 163,453 | 231,831 | 300,213 | 368,598 | | | | | | | | |
| G13x52-SR3 | Start | 311,668 | | | | | | | | | | | | 233,020 | 313,844 | 394,672 | 475,505 | 556,341 | 5.3 | 8.3 | | | | | |
| | Min | 121,097 | | | | | | | | | | | | 78,310 | 122,596 | 165,607 | 208,226 | 250,651 | | | | | | | |
| | End | 164,915 | | | | | | | | | | | | 86,755 | 167,173 | 247,595 | 328,021 | 408,451 | | | | | | | |
| G13xT40-SR3 | Start | 310,173 | | | | | | | | | | | | 301,461 | 396,279 | 491,103 | 4.5 | 6.9 | | | | | | | |
| | Min | 120,697 | | | | | | | | | | | | 116,441 | 166,963 | 216,937 | | | | | | | | | |
| | End | 163,429 | | | | | | | | | | | | 154,852 | 249,193 | 343,541 | | | | | | | | | |
| G13xT44-SR3 | Start | 309,779 | | | | | | | | | | | | 230,019 | 287,590 | 402,737 | 517,891 | 3.7 | 5.7 | | | | | | |
| | Min | 120,591 | | | | | | | | | | | | 77,180 | 109,023 | 170,448 | 231,070 | | | | | | | | |
| | End | 163,036 | | | | | | | | | | | | 83,769 | 141,051 | 255,619 | 370,194 | | | | | | | | |
| G13xT48-SR3 | Start | 309,404 | | | | | | | | | | | | 238,900 | 307,607 | 376,316 | 513,740 | 3.1 | 4.8 | | | | | | |
| | Min | 120,491 | | | | | | | | | | | | 82,307 | 119,891 | 156,538 | 228,950 | | | | | | | | |
| | End | 162,664 | | | | | | | | | | | | 92,606 | 160,968 | 229,331 | 366,064 | | | | | | | | |
| G13xT52-SR3 | Start | 309,029 | | | | | | | | | | | | 230,356 | 311,168 | 391,983 | 472,800 | 634,440 | 2.6 | 4.1 | | | | | |
| | Min | 120,390 | | | | | | | | | | | | 77,536 | 121,878 | 164,896 | 207,516 | 292,263 | | | | | | | |
| | End | 162,291 | | | | | | | | | | | | 84,104 | 164,511 | 244,919 | 325,329 | 486,156 | | | | | | | |

Torque - Pneumatic Spring Return Actuator

| Actuator Model | Metric Unit | Spring Torque Nm | Operating Pressure, barg | | | | | | | | | | | | | | | | | MinOP barg | MOP barg | | | |
|----------------|-------------|------------------|--------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|----------|---------|-----|------|
| | | | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11.5 | 12 | 12.5 | 13 | | | 13.5 | 14 | |
| | | | Air Torque Output, Nm | | | | | | | | | | | | | | | | | | | | | |
| G13x40-SR4 | Start | 252,809 | | | | | | | | | | 191,060 | 238,475 | 285,894 | 333,316 | 380,741 | 404,455 | 428,170 | 451,885 | 475,601 | 499,318 | 523,036 | 7.3 | 13.8 |
| | Min | 98,903 | | | | | | | | | | 65,530 | 91,532 | 116,892 | 142,009 | 166,987 | 179,441 | 191,895 | 204,321 | 216,741 | 229,162 | 241,577 | | |
| | End | 135,928 | | | | | | | | | | 74,564 | 121,742 | 168,922 | 216,105 | 263,292 | 286,887 | 310,482 | 334,078 | 357,675 | 381,273 | 404,872 | | |
| G13x44-SR4 | Start | 252,612 | | | | | | | | 204,453 | 262,034 | 319,618 | 377,206 | 434,797 | 492,392 | 521,191 | 549,990 | 6.0 | 11.4 | | | | | |
| | Min | 98,850 | | | | | | | | 73,027 | 104,206 | 134,793 | 165,155 | 195,395 | 225,557 | 240,635 | 255,683 | | | | | | | |
| | End | 135,732 | | | | | | | | 87,891 | 145,182 | 202,476 | 259,775 | 317,076 | 374,382 | 403,035 | 431,690 | | | | | | | |
| G13x48-SR4 | Start | 252,424 | | | | | | | 202,378 | 271,094 | 339,813 | 408,537 | 477,264 | 545,995 | 5.0 | 9.7 | | | | | | | | |
| | Min | 98,800 | | | | | | | 71,913 | 109,071 | 145,484 | 181,632 | 217,656 | 253,614 | | | | | | | | | | |
| | End | 135,546 | | | | | | | 85,826 | 154,196 | 222,570 | 290,948 | 359,330 | 427,715 | | | | | | | | | | |
| G13x52-SR4 | Start | 252,237 | | | | | | 181,908 | 262,728 | 343,552 | 424,380 | 505,213 | 586,049 | 4.1 | 8.3 | | | | | | | | | |
| | Min | 98,749 | | | | | | 60,428 | 104,635 | 147,481 | 189,976 | 232,314 | 274,562 | | | | | | | | | | | |
| | End | 135,359 | | | | | | 65,459 | 145,872 | 226,290 | 306,712 | 387,138 | 467,568 | | | | | | | | | | | |
| G13xT40-SR4 | Start | 250,742 | | | | | 188,954 | 236,357 | 331,169 | 425,987 | 520,811 | 3.7 | 6.9 | | | | | | | | | | | |
| | Min | 98,349 | | | | | 64,934 | 90,961 | 141,444 | 191,323 | 240,996 | | | | | | | | | | | | | |
| | End | 133,873 | | | | | 72,469 | 119,634 | 213,969 | 308,310 | 402,658 | | | | | | | | | | | | | |
| G13xT44-SR4 | Start | 250,348 | | | 202,158 | 259,727 | 317,298 | 432,445 | 547,599 | 3.0 | 5.7 | | | | | | | | | | | | | |
| | Min | 98,243 | | | 72,394 | 103,591 | 134,180 | 194,780 | 255,058 | | | | | | | | | | | | | | | |
| | End | 133,480 | | | 85,607 | 142,886 | 200,168 | 314,736 | 429,311 | | | | | | | | | | | | | | | |
| G13xT48-SR4 | Start | 249,973 | | 199,903 | 268,608 | 337,315 | 406,024 | 543,448 | 2.6 | 4.8 | | | | | | | | | | | | | | |
| | Min | 98,142 | | 71,229 | 108,408 | 144,826 | 180,973 | 252,949 | | | | | | | | | | | | | | | | |
| | End | 133,107 | | 83,363 | 151,723 | 220,085 | 288,448 | 425,181 | | | | | | | | | | | | | | | | |
| G13xT52-SR4 | Start | 249,598 | | 260,064 | 340,876 | 421,691 | 502,508 | 664,148 | 2.1 | 4.1 | | | | | | | | | | | | | | |
| | Min | 98,042 | | 103,925 | 146,777 | 189,271 | 231,606 | 316,074 | | | | | | | | | | | | | | | | |
| | End | 132,735 | | 143,221 | 223,628 | 304,036 | 384,446 | 545,273 | | | | | | | | | | | | | | | | |