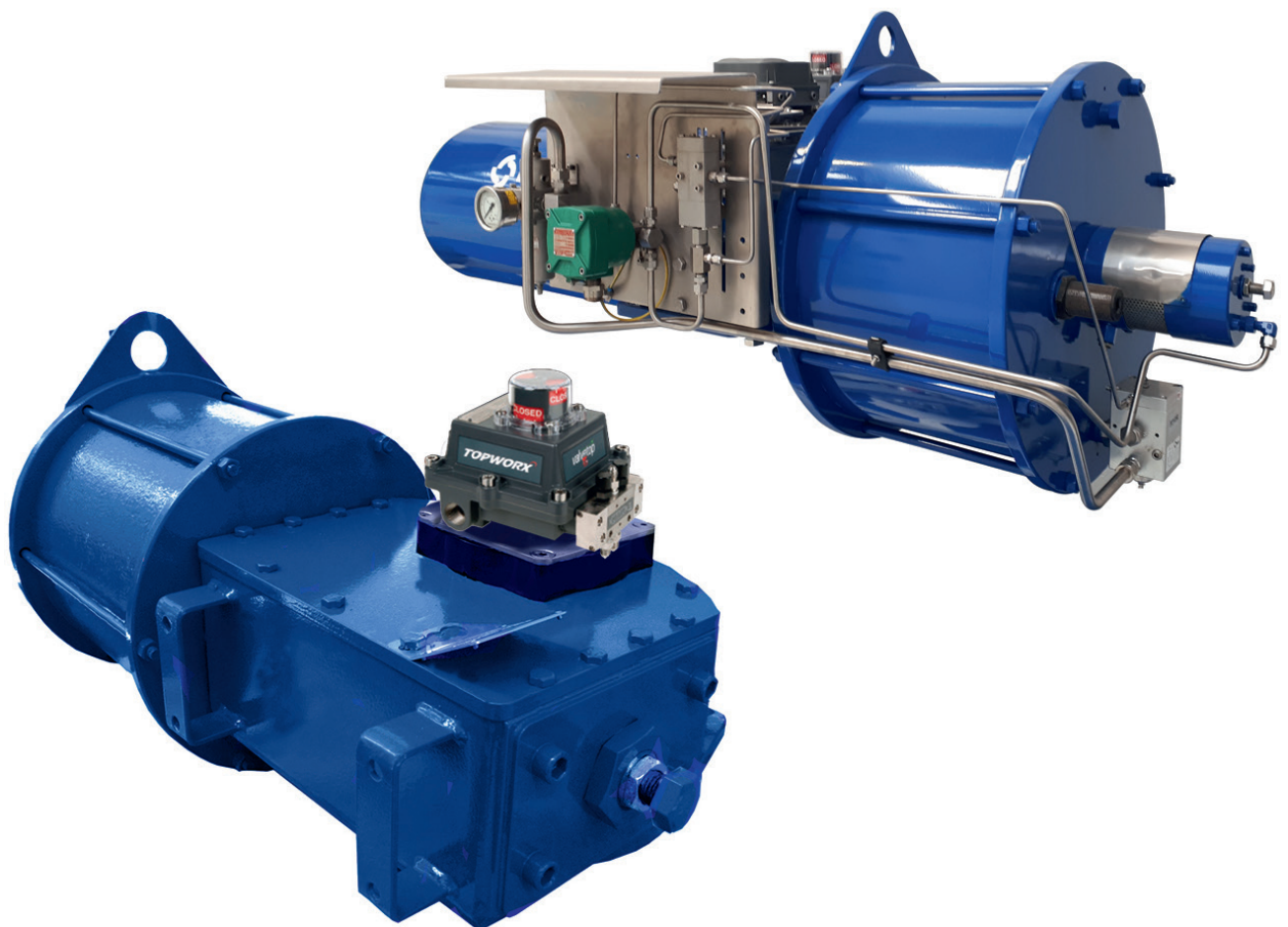


Biffi ALGA/ALGAS/ALGAS-QA Pneumatic Actuators

Scotch Yoke Design

Double-acting and spring-return pneumatic quarter-turn actuators for on-off and modulating control of valves in heavy-duty service. Available for output torques to 1,000,000 Nm.



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General Application

ALGA, ALGAS and ALGAS-QA pneumatic actuators are designed for on-off or modulating control of quarter-turn ball, butterfly, plug or damper style valves.

Technical Data

Design pressure (MAWP): up to 12 barg

Supply medium: Air, nitrogen or sweet gas

Sour gas version available

Output torque

ALGA: Double-acting torque up to 1000000 Nm

ALGAS/ALGAS-QA: Spring starting torque up to 335000 Nm

Spring end torque up to 235000 Nm

Ambient temperature

Standard range: -20 to +100 °C / -4 to +210 °F

Extended temperature: -60 to +135 °C / -70 to +275 °F

MAWP: Maximum Allowable Working Pressure is the pressure defined for the design of the actuator pressure containing parts.

MOP: Maximum Operating Pressure is the pressure that generates the torque used to engineer the mechanical loaded parts of the actuator and it is the one required to produce the design torque of the actuator.

Features

- Totally enclosed, weatherproof housing in fabricated carbon steel for maximum strength.
- Guide bar resists transverse loads and supports the piston rod.
- Hard chromium plated alloy steel material guarantees corrosion protection and minimal friction.
- Polytetrafluoroethylene (PTFE)-impregnated bronze or sintered bronze bushings provide minimal friction and extended service life.
- Scotch yoke design with canted or symmetric torque arm allows close working to distinctive valve torque profiles.
- External travel stops for precise angular stroke adjustment 90° ±4° at each end of travel.
- Electroless nickel plated and polished cylinder provides maximum corrosion resistance and reduces friction.
- Floating type piston seals provide low hysteresis and high sensitivity, preventing sticking problems.
- ALGAS spring-return pack incorporates up to four springs, fully encapsulated in a factory welded cartridge ensuring personnel safety and simplifying assembly.
- ALGAS spring action can be changed easily in the field from to close to open or vice versa.
- Special coatings for offshore or corrosive environments.

Approvals

| | |
|--|-------------------------------------|
| Safety Integrity Level: (IEC 61508-1÷7:2010) | SIL 3 |
| Area Classification: (ATEX) | II 2GD |
| Enclosure standards: (IEC 60529) (ANSI/NEMA 250) | IP66, IP66M, IP67M NEMA 4, 4X, 6 |
| Pressure Equipment Directive: | 2014/68/EU |
| Machinery Directive: | 2006/42/EC |

Figure 1. ALGA Double-Acting

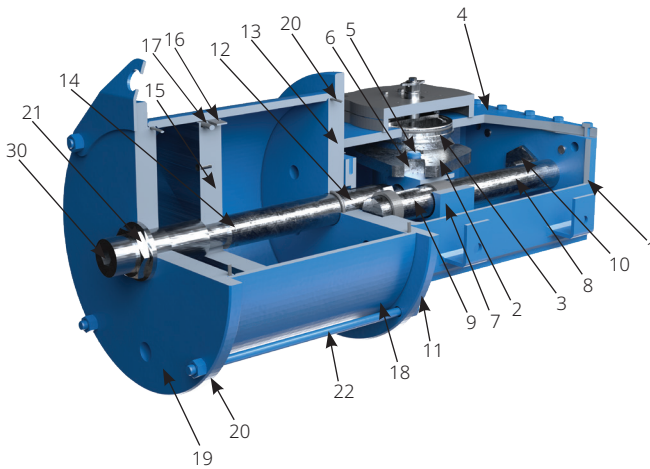


Figure 2. ALGAS Spring-Return

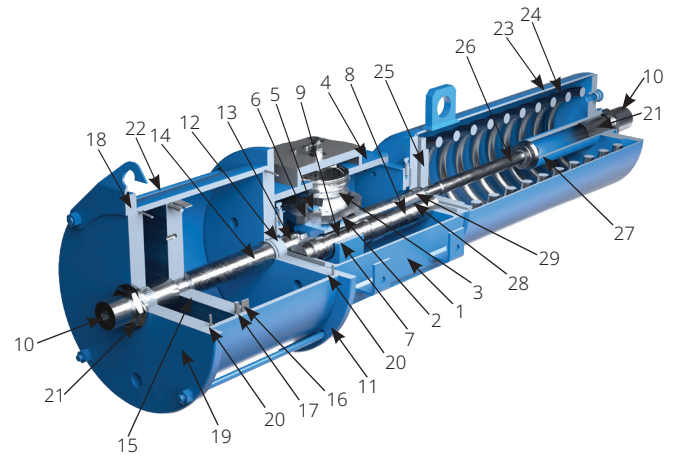


Table 1. Materials

| Part | Material |
|-------------------------|----------------------------------|
| 1 Housing | Carbon steel |
| 2 Yoke | Carbon steel |
| 3 Yoke bushing | Bronze |
| 4 Cover | Carbon steel |
| 5 Guide block pin | Alloy steel |
| 6 Sliding block | Bronze |
| 7 Guide block | Carbon steel |
| 8 Guide bar | Alloy steel (hard chrome plated) |
| 9 Guide block bushing | Steel + Bronze + PTFE |
| 10 Travel stop screw | Carbon steel |
| 11 Cylinder head flange | Carbon steel |
| 12 Piston rod bushing | Steel + Bronze + PTFE |
| 13 Piston rod seal | Nitrile Butadiene Rubber (NBR) |
| 14 Piston rod | Alloy steel (hard chrome plated) |
| 15 Piston | Carbon steel |

| Part | Material |
|------------------------------|----------------------------------|
| 16 Piston guide sliding ring | PTFE + Graphite |
| 17 Piston seal O-ring | NBR |
| 18 Cylinder tube | Carbon steel (ENP) |
| 19 Cylinder end flange | Carbon steel |
| 20 Cylinder seal O-ring | NBR |
| 21 Sealing washer | PVC |
| 22 Tie rod | Alloy steel |
| 23 Spring container | Carbon steel |
| 24 Spring | Carbon steel |
| 25 Spring thrust flange | Carbon steel |
| 26 Guide rod | Alloy steel (hard chrome plated) |
| 27 Guide rod bushing | Steel + Bronze + PTFE |
| 28 Container rod | Alloy steel (hard chrome plated) |
| 29 Container rod bushing | Steel + Bronze + PTFE |
| 30 Travel stop screw | Carbon steel |

NOTES:

Mounting brackets and tie rods available in stainless steel as an option.
 Fluoroelastomer and fluorosilicone seals available as an option.
 BOM is for information only, please refer to factory for more details.

ALGA Double-Acting Pneumatic Actuator Output Torques (Nm)

Canted Yoke Design

Table 2. Models 0.3C-100 to 3C-335

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | MOP* (barg) | | | | | | |
|----------|----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|------|------|------|------|------|
| | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | | 10 | | 11 | | 12 | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | |
| 0.3C-100 | 0° | 384 | 398 | 443 | 459 | 501 | 520 | 560 | 581 | 619 | 642 | 677 | 703 | 794 | 825 | 912 | 947 | 1029 | 1069 | 1146 | 1191 | 1263 | 1313 | 1381 | 1435 | 12.0 |
| | 45° | 150 | 140 | 173 | 161 | 196 | 183 | 219 | 204 | 241 | 226 | 264 | 247 | 310 | 290 | 356 | 333 | 402 | 376 | 448 | 419 | 494 | 462 | 539 | 505 | |
| | 90° | 216 | 194 | 249 | 224 | 282 | 254 | 315 | 283 | 348 | 313 | 381 | 343 | 448 | 402 | 514 | 462 | 580 | 522 | 646 | 581 | 712 | 641 | 778 | 700 | |
| 0.3C-135 | 0° | 709 | 758 | 816 | 873 | 923 | 987 | 1030 | 1102 | 1136 | 1216 | 1243 | 1331 | 1457 | 1560 | 1671 | 1789 | 1884 | 2018 | 2098 | 2247 | 2312 | 2476 | 2525 | 2705 | 12.0 |
| | 45° | 277 | 267 | 319 | 307 | 360 | 348 | 402 | 388 | 444 | 428 | 486 | 469 | 569 | 550 | 653 | 630 | 736 | 711 | 820 | 792 | 903 | 872 | 987 | 953 | |
| | 90° | 399 | 370 | 460 | 426 | 520 | 482 | 580 | 538 | 640 | 594 | 700 | 650 | 821 | 761 | 941 | 873 | 1062 | 985 | 1182 | 1097 | 1303 | 1209 | 1423 | 1320 | |
| 0.3C-175 | 0° | 1202 | 1306 | 1382 | 1501 | 1562 | 1696 | 1741 | 1892 | 1921 | 2087 | 2100 | 2282 | 2459 | 2672 | - | - | - | - | - | - | - | - | - | - | 7.8 |
| | 45° | 470 | 460 | 540 | 529 | 610 | 598 | 680 | 666 | 750 | 735 | 821 | 804 | 961 | 942 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 678 | 637 | 779 | 733 | 880 | 828 | 981 | 923 | 1082 | 1019 | 1184 | 1114 | 1386 | 1305 | - | - | - | - | - | - | - | - | - | - | |
| 0.3C-235 | 0° | 2188 | 2400 | 2512 | 2755 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.3 |
| | 45° | 855 | 846 | 982 | 971 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 1233 | 1172 | 1416 | 1345 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0.9C-235 | 0° | 2530 | 2775 | 2905 | 3186 | 3279 | 3597 | 3653 | 4008 | 4028 | 4418 | 4402 | 4829 | 5151 | 5651 | 5900 | 6472 | 6648 | 7294 | 7397 | 8115 | 8146 | 8937 | - | - | 11.0 |
| | 45° | 989 | 978 | 1135 | 1123 | 1281 | 1267 | 1428 | 1412 | 1574 | 1557 | 1720 | 1702 | 2013 | 1991 | 2306 | 2281 | 2598 | 2570 | 2891 | 2860 | 3184 | 3150 | - | - | |
| | 90° | 1426 | 1355 | 1637 | 1555 | 1848 | 1756 | 2059 | 1956 | 2270 | 2157 | 2481 | 2357 | 2903 | 2759 | 3325 | 3160 | 3747 | 3561 | 4169 | 3962 | 4591 | 4363 | - | - | |
| 0.9C-280 | 0° | 3603 | 3914 | 4134 | 4492 | 4666 | 5070 | 5197 | 5648 | 5729 | 6225 | 6260 | 6803 | 7323 | 7959 | - | - | - | - | - | - | - | - | - | - | 7.9 |
| | 45° | 1408 | 1379 | 1616 | 1583 | 1824 | 1787 | 2031 | 1990 | 2239 | 2194 | 2447 | 2398 | 2862 | 2805 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 2031 | 1911 | 2330 | 2193 | 2630 | 2475 | 2929 | 2757 | 3229 | 3039 | 3528 | 3321 | 4127 | 3886 | - | - | - | - | - | - | - | - | - | - | |
| 1.5C-280 | 0° | 4556 | 4950 | 5228 | 5680 | 5900 | 6411 | 6572 | 7142 | 7244 | 7872 | 7916 | 8603 | 9261 | 10064 | 10605 | 11526 | 11949 | 12987 | 13293 | 14448 | - | - | - | - | 10.3 |
| | 45° | 1781 | 1744 | 2043 | 2002 | 2306 | 2259 | 2569 | 2517 | 2831 | 2774 | 3094 | 3032 | 3620 | 3547 | 4145 | 4062 | 4670 | 4577 | 5196 | 5092 | - | - | - | - | |
| | 90° | 2568 | 2416 | 2947 | 2773 | 3325 | 3130 | 3704 | 3487 | 4083 | 3843 | 4462 | 4200 | 5219 | 4914 | 5977 | 5627 | 6735 | 6340 | 7492 | 7054 | - | - | - | - | |
| 1.5C-335 | 0° | 6541 | 7153 | 7503 | 8205 | 8465 | 9258 | 9427 | 10310 | 10389 | 11363 | 11351 | 12415 | 13275 | 14520 | - | - | - | - | - | - | - | - | - | - | 7.2 |
| | 45° | 2557 | 2521 | 2933 | 2892 | 3309 | 3263 | 3685 | 3634 | 4061 | 4005 | 4437 | 4376 | 5189 | 5117 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 3687 | 3492 | 4229 | 4006 | 4771 | 4520 | 5313 | 5034 | 5856 | 5547 | 6398 | 6061 | 7482 | 7089 | - | - | - | - | - | - | - | - | - | - | |
| 1.5C-385 | 0° | 8691 | 9538 | 9961 | 10933 | 11232 | 12328 | 12502 | 13723 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.4 |
| | 45° | 3397 | 3362 | 3893 | 3853 | 4390 | 4345 | 4887 | 4837 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 4898 | 4657 | 5614 | 5338 | 6330 | 6019 | 7047 | 6700 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3C-335 | 0° | 10827 | 11840 | 12420 | 13582 | 14012 | 15324 | 15604 | 17066 | 17197 | 18807 | 18789 | 20549 | 21973 | 24033 | 25158 | 27517 | - | - | - | - | - | - | - | - | 8.7 |
| | 45° | 4232 | 4173 | 4854 | 4787 | 5477 | 5401 | 6099 | 6015 | 6722 | 6629 | 7344 | 7243 | 8589 | 8471 | 9834 | 9699 | - | - | - | - | - | - | - | - | |
| | 90° | 6102 | 5780 | 7000 | 6631 | 7897 | 7481 | 8795 | 8332 | 9692 | 9182 | 10590 | 10033 | 12385 | 11734 | 14180 | 13435 | - | - | - | - | - | - | - | - | |

NOTE:
* MOP = Maximum Operating Pressure (barg)

Table 3. Models 3C-385 to 6C-585

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | | MOP* (barg) | |
|--------|----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|----|----|----|----|----|----|----|----|-------------|-----|
| | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | | |
| 3C-385 | 0° | 14385 | 15788 | 16488 | 18097 | 18591 | 20405 | 20694 | 22714 | 22797 | 25023 | 24900 | 27332 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.5 |
| | 45° | 5623 | 5564 | 6445 | 6378 | 7267 | 7192 | 8089 | 8006 | 8911 | 8820 | 9733 | 9633 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 8108 | 7708 | 9293 | 8835 | 10478 | 9963 | 11664 | 11090 | 12849 | 12217 | 14035 | 13344 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3C-435 | 0° | 18418 | 20263 | 21102 | 23218 | 23787 | 26172 | 26472 | 29127 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.1 | |
| | 45° | 7199 | 7142 | 8248 | 8183 | 9298 | 9225 | 10347 | 10266 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - |
| | 90° | 10381 | 9893 | 11894 | 11336 | 13407 | 12778 | 14920 | 14221 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - |
| 3C-485 | 0° | 22962 | 25306 | 26299 | 28985 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.1 | |
| | 45° | 8975 | 8919 | 10280 | 10216 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - |
| | 90° | 12942 | 12355 | 14823 | 14151 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - |
| 6C-485 | 0° | 26844 | 29586 | 30746 | 33886 | 34648 | 38187 | 38550 | 42488 | 42452 | 46789 | 46354 | 51090 | 54158 | 59691 | - | - | - | - | - | - | - | - | - | - | 7.0 | |
| | 45° | 10493 | 10428 | 12018 | 11944 | 13543 | 13459 | 15069 | 14975 | 16594 | 16491 | 18119 | 18007 | 21169 | 21039 | - | - | - | - | - | - | - | - | - | - | | - |
| | 90° | 15130 | 14445 | 17330 | 16545 | 19529 | 18644 | 21728 | 20744 | 23927 | 22844 | 26127 | 24944 | 30525 | 29144 | - | - | - | - | - | - | - | - | - | - | | - |
| 6C-535 | 0° | 32760 | 36150 | 37508 | 41390 | 42255 | 46630 | 47003 | 51869 | 51751 | 57109 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.7 | |
| | 45° | 12805 | 12742 | 14661 | 14588 | 16517 | 16435 | 18373 | 18282 | 20229 | 20129 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - |
| | 90° | 18464 | 17650 | 21140 | 20208 | 23817 | 22766 | 26493 | 25325 | 29169 | 27883 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - |
| 6C-585 | 0° | 39169 | 43264 | 44846 | 49534 | 50523 | 55805 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.8 | |
| | 45° | 15311 | 15249 | 17530 | 17459 | 19749 | 19669 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - |
| | 90° | 22077 | 21123 | 25277 | 24184 | 28476 | 27246 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | - |

NOTE:

* MOP = Maximum Operating Pressure (barg)

Table 4. Models 14C-635 to 32C-835

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | | MOP* (barg) | | |
|----------|----------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|-----|------|
| | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | | | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | | | |
| 14C-635 | 0° | 50441 | 55473 | 57752 | 63513 | 65062 | 71554 | 72373 | 79594 | 79683 | 87635 | 86994 | 95676 | 101614 | 111757 | - | - | - | - | - | - | - | - | - | - | - | 7.5 | |
| | 45° | 19717 | 19552 | 22574 | 22386 | 25432 | 25220 | 28290 | 28054 | 31147 | 30888 | 34005 | 33722 | 39720 | 39390 | - | - | - | - | - | - | - | - | - | - | - | 7.5 | |
| | 90° | 28430 | 27084 | 32551 | 31010 | 36671 | 34935 | 40792 | 38861 | 44912 | 42787 | 49033 | 46713 | 57273 | 54564 | - | - | - | - | - | - | - | - | - | - | - | 7.5 | |
| 14C-735 | 0° | 67580 | 74492 | 77374 | 85290 | 87168 | 96087 | 96962 | 106884 | 106757 | 117681 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.6 | |
| | 45° | 26416 | 26256 | 30244 | 30062 | 34073 | 33867 | 37901 | 37673 | 41730 | 41478 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.6 | |
| | 90° | 38090 | 36370 | 43611 | 41642 | 49131 | 46913 | 54651 | 52185 | 60172 | 57456 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.6 | |
| 18C-635 | 0° | 58008 | 63794 | 66415 | 73040 | 74822 | 82287 | 83229 | 91534 | 91636 | 100780 | 100043 | 110027 | 116857 | 128521 | 133671 | 147014 | 150485 | 165507 | - | - | - | - | - | - | - | - | 9.7 |
| | 45° | 22674 | 22485 | 25961 | 25744 | 29247 | 29003 | 32533 | 32262 | 35819 | 35522 | 39105 | 38781 | 45678 | 45299 | 52250 | 51817 | 58823 | 58336 | - | - | - | - | - | - | - | - | 9.7 |
| | 90° | 32695 | 31146 | 37434 | 35661 | 42172 | 40176 | 46911 | 44690 | 51649 | 49205 | 56388 | 53720 | 65865 | 62749 | 75342 | 71778 | 84819 | 80807 | - | - | - | - | - | - | - | - | 9.7 |
| 18C-685 | 0° | 67503 | 74331 | 77286 | 85105 | 87069 | 95879 | 96852 | 106652 | 106635 | 117426 | 116418 | 128200 | 135984 | 149748 | 155550 | 171296 | - | - | - | - | - | - | - | - | - | - | 8.4 |
| | 45° | 26386 | 26199 | 30210 | 29996 | 34034 | 33794 | 37858 | 37591 | 41682 | 41389 | 45506 | 45186 | 53155 | 52781 | 60803 | 60376 | - | - | - | - | - | - | - | - | - | - | 8.4 |
| | 90° | 38047 | 36291 | 43561 | 41551 | 49075 | 46812 | 54589 | 52072 | 60103 | 57332 | 65617 | 62592 | 76645 | 73113 | 87674 | 83633 | - | - | - | - | - | - | - | - | - | - | 8.4 |
| 18C-735 | 0° | 77717 | 85666 | 88980 | 98083 | 100243 | 110500 | 111507 | 122916 | 122770 | 135333 | 134033 | 147750 | 156560 | 172583 | - | - | - | - | - | - | - | - | - | - | - | - | 7.2 |
| | 45° | 30378 | 30194 | 34781 | 34571 | 39184 | 38947 | 43587 | 43324 | 47989 | 47700 | 52392 | 52077 | 61198 | 60830 | - | - | - | - | - | - | - | - | - | - | - | - | 7.2 |
| | 90° | 43804 | 41826 | 50152 | 47888 | 56501 | 53950 | 62849 | 60013 | 69198 | 66075 | 75546 | 72137 | 88243 | 84262 | - | - | - | - | - | - | - | - | - | - | - | - | 7.2 |
| 18C2-635 | 0° | 115491 | 128171 | 132230 | 146747 | 148968 | 165324 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.8 |
| | 45° | 45144 | 45176 | 51687 | 51723 | 58230 | 58271 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.8 |
| | 90° | 65095 | 62578 | 74529 | 71648 | 83964 | 80718 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.8 |
| 18C2-685 | 0° | 134480 | 149245 | 153971 | 170876 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.2 |
| | 45° | 52567 | 52604 | 60186 | 60228 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.2 |
| | 90° | 75798 | 72867 | 86784 | 83429 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.2 |
| 32C-685 | 0° | 79242 | 87258 | 90727 | 99906 | 102211 | 112553 | 113696 | 125201 | 125180 | 137848 | 136665 | 150496 | 159633 | 175791 | 182602 | 201086 | 205571 | 226381 | 228540 | 251676 | 251509 | 276972 | 274478 | 302267 | - | - | 12.0 |
| | 45° | 30975 | 30755 | 35464 | 35213 | 39953 | 39671 | 44442 | 44129 | 48931 | 48587 | 53421 | 53045 | 62399 | 61960 | 71377 | 70876 | 80356 | 79792 | 89334 | 88708 | 98312 | 97623 | 107291 | 106539 | - | - | 12.0 |
| | 90° | 44664 | 42603 | 51137 | 48778 | 57610 | 54953 | 64083 | 61128 | 70556 | 67303 | 77029 | 73478 | 89975 | 85828 | 102921 | 98178 | 115867 | 110528 | 128813 | 122879 | 141760 | 135229 | 154706 | 147579 | - | - | 12.0 |
| 32C-735 | 0° | 91233 | 100565 | 104455 | 115141 | 117677 | 129717 | 130899 | 144293 | 144122 | 158869 | 157344 | 173446 | 183788 | 202598 | 210233 | 231750 | 236677 | 260902 | 263121 | 290054 | 289566 | 319207 | - | - | - | - | 11.0 |
| | 45° | 35662 | 35446 | 40830 | 40583 | 45999 | 45721 | 51167 | 50858 | 56335 | 55996 | 61504 | 61134 | 71841 | 71409 | 82178 | 81684 | 92514 | 91959 | 102851 | 102235 | 113188 | 112510 | - | - | - | - | 11.0 |
| | 90° | 51422 | 49100 | 58874 | 56216 | 66327 | 63333 | 73779 | 70450 | 81232 | 77566 | 88685 | 84683 | 103590 | 98916 | 118495 | 113150 | 133400 | 127383 | 148305 | 141616 | 163210 | 155850 | - | - | - | - | 11.0 |
| 32C-835 | 0° | 117747 | 129990 | 134812 | 148831 | 151877 | 167671 | 168941 | 186512 | 186006 | 205353 | 203071 | 224193 | 237201 | 261875 | 271330 | 299556 | - | - | - | - | - | - | - | - | - | - | 8.5 |
| | 45° | 46026 | 45817 | 52696 | 52458 | 59367 | 59099 | 66037 | 65739 | 72708 | 72380 | 79378 | 79021 | 92719 | 92302 | 106060 | 105584 | - | - | - | - | - | - | - | - | - | - | 8.5 |
| | 90° | 66366 | 63466 | 75985 | 72665 | 85603 | 81864 | 95221 | 91063 | 104840 | 100261 | 114458 | 109460 | 133695 | 127858 | 152932 | 146255 | - | - | - | - | - | - | - | - | - | - | 8.5 |

NOTE:
* MOP = Maximum Operating Pressure (barg)

Table 5. Models 32C2-685 to 50C2-1000

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | | MOP* (barg) |
|-----------|----------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|----|----|----|----|----|----|-----|-------------|
| | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | |
| 32C2-685 | 0° | 157868 | 175201 | 180749 | 200594 | 203630 | 225987 | 226511 | 251380 | 249391 | 276773 | 272272 | 302166 | - | - | - | - | - | - | - | - | - | - | - | - | 6.3 |
| | 45° | 61709 | 61752 | 70653 | 70703 | 79597 | 79653 | 88541 | 88603 | 97484 | 97553 | 106428 | 106503 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 88980 | 85540 | 101877 | 97938 | 114773 | 110336 | 127670 | 122734 | 140566 | 135132 | 153462 | 147530 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 50C-935 | 0° | 164043 | 181019 | 187817 | 207255 | 211592 | 233492 | 235366 | 259729 | 259141 | 285966 | 282915 | 312202 | 330464 | 364676 | 378013 | 417150 | - | - | - | - | - | - | - | - | 8.6 |
| | 45° | 64123 | 63803 | 73416 | 73051 | 82709 | 82298 | 92002 | 91546 | 101295 | 100793 | 110589 | 110041 | 129175 | 128536 | 147761 | 147032 | - | - | - | - | - | - | - | - | |
| | 90° | 92460 | 88380 | 105861 | 101190 | 119261 | 114000 | 132661 | 126810 | 146061 | 139620 | 159461 | 152430 | 186261 | 178050 | 213062 | 203669 | - | - | - | - | - | - | - | - | |
| 50C-1000 | 0° | 187644 | 207211 | 214839 | 237243 | 242034 | 267276 | 269229 | 297309 | 296423 | 327342 | 323618 | 357374 | 378008 | 417440 | - | - | - | - | - | - | - | - | - | - | 7.5 |
| | 45° | 73348 | 73035 | 83978 | 83620 | 94608 | 94206 | 105239 | 104792 | 115869 | 115377 | 126499 | 125963 | 147759 | 147134 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 105763 | 101169 | 121091 | 115832 | 136419 | 130495 | 151747 | 145158 | 167075 | 159822 | 182403 | 174485 | 213059 | 203811 | - | - | - | - | - | - | - | - | - | - | |
| 50C-1100 | 0° | 227049 | 250626 | 259955 | 286951 | 292861 | 323276 | 325767 | 359602 | 358672 | 395927 | 391578 | 432253 | - | - | - | - | - | - | - | - | - | - | - | - | 6.2 |
| | 45° | 88751 | 88337 | 101614 | 101141 | 114476 | 113944 | 127339 | 126748 | 140201 | 139551 | 153064 | 152355 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 127973 | 122366 | 146520 | 140101 | 165067 | 157837 | 183614 | 175572 | 202161 | 193308 | 220708 | 211043 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 50C2-935 | 0° | 327154 | 363073 | 374569 | 415694 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.3 | |
| | 45° | 127881 | 127971 | 146415 | 146519 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | 90° | 184396 | 177267 | 211121 | 202959 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 50C2-1000 | 0° | 374356 | 415457 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.3 | |
| | 45° | 146332 | 146435 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | 90° | 211001 | 202843 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |

NOTE:

* MOP = Maximum Operating Pressure (barg)

Table 6. Models 80C-935 to 80C2-1200

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | | MOP* (barg) |
|-----------|----------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | |
| 80C-935 | 0° | 191384 | 211188 | 219120 | 241798 | 246857 | 272408 | 274594 | 303017 | 302331 | 333627 | 330068 | 364236 | 385541 | 425455 | 441015 | 486675 | 496489 | 547894 | 551962 | 609113 | 607436 | 670332 | 662910 | 731551 | 12.0 |
| | 45° | 74810 | 74437 | 85652 | 85226 | 96494 | 96015 | 107336 | 106804 | 118178 | 117592 | 129020 | 128381 | 150704 | 149959 | 172388 | 171537 | 194072 | 193115 | 215757 | 214693 | 237441 | 236270 | 259125 | 257848 | |
| | 90° | 107871 | 103111 | 123504 | 118056 | 139138 | 133000 | 154771 | 147945 | 170405 | 162890 | 186038 | 177835 | 217305 | 207725 | 248572 | 237614 | 279839 | 267504 | 311106 | 297394 | 342373 | 327284 | 373640 | 357173 | |
| 80C-1000 | 0° | 218918 | 241746 | 250645 | 276784 | 282373 | 311822 | 314100 | 346861 | 345827 | 381899 | 377555 | 416937 | 441009 | 487013 | 504464 | 557090 | 567919 | 627166 | 631373 | 697243 | - | - | - | - | 10.7 |
| | 45° | 85573 | 85207 | 97975 | 97557 | 110377 | 109907 | 122778 | 122257 | 135180 | 134607 | 147582 | 146957 | 172386 | 171656 | 197190 | 196356 | 221994 | 221056 | 246798 | 245756 | - | - | - | - | |
| | 90° | 123390 | 118030 | 141273 | 135137 | 159156 | 152244 | 177038 | 169351 | 194921 | 186459 | 212804 | 203566 | 248569 | 237780 | 284334 | 271994 | 320100 | 306208 | 355865 | 340422 | - | - | - | - | |
| 80C-1100 | 0° | 264891 | 292397 | 303281 | 334776 | 341671 | 377156 | 380061 | 419536 | 418451 | 461915 | 456841 | 504295 | 533621 | 589054 | 610402 | 673813 | - | - | - | - | - | - | - | - | 8.8 |
| | 45° | 103543 | 103060 | 118549 | 117998 | 133556 | 132935 | 148562 | 147873 | 163568 | 162810 | 178575 | 177748 | 208587 | 207623 | 238600 | 237498 | - | - | - | - | - | - | - | - | |
| | 90° | 149302 | 142760 | 170940 | 163451 | 192578 | 184143 | 214216 | 204834 | 235854 | 225526 | 257492 | 246217 | 300769 | 287600 | 344045 | 328983 | - | - | - | - | - | - | - | - | |
| 80C-1200 | 0° | 315242 | 348276 | 360930 | 398754 | 406617 | 449232 | 452304 | 499710 | 497992 | 550189 | 543679 | 600667 | 635054 | 701623 | - | - | - | - | - | - | - | - | - | - | 7.4 |
| | 45° | 123225 | 122756 | 141084 | 140548 | 158942 | 158340 | 176801 | 176132 | 194660 | 193924 | 212519 | 211716 | 248236 | 247299 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 177682 | 170043 | 203433 | 194688 | 229184 | 219334 | 254935 | 243979 | 280686 | 268625 | 306437 | 293270 | 357940 | 342561 | - | - | - | - | - | - | - | - | - | - | |
| 80C2-935 | 0° | 381679 | 423585 | 436998 | 484977 | 492316 | 546368 | 547634 | 607760 | 602952 | 669152 | 658270 | 730543 | - | - | - | - | - | - | - | - | - | - | - | - | 6.1 |
| | 45° | 149195 | 149300 | 170818 | 170939 | 192441 | 192577 | 214065 | 214216 | 235688 | 235854 | 257311 | 257493 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 215128 | 206811 | 246308 | 236785 | 277487 | 266759 | 308667 | 296733 | 339846 | 326707 | 371025 | 356681 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 80C2-1000 | 0° | 436748 | 484700 | 500048 | 554949 | 563347 | 625198 | 626646 | 695447 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.3 |
| | 45° | 170720 | 170841 | 195464 | 195602 | 220207 | 220362 | 244950 | 245123 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 246167 | 236650 | 281845 | 270949 | 317523 | 305247 | 353201 | 339546 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 80C2-1100 | 0° | 528361 | 586371 | 604938 | 671356 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.4 |
| | 45° | 206531 | 206677 | 236464 | 236631 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 297804 | 286290 | 340965 | 327783 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 80C2-1200 | 0° | 629064 | 698130 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3.7 | |
| | 45° | 245895 | 246068 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | 90° | 354563 | 340856 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |

NOTE:

* MOP = Maximum Operating Pressure (barg)

Symmetric Yoke Design

Table 7. Models 0.3S-100 to 3S-335

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | MOP* (barg) | | | | | | |
|----------|----------|----------------------------------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|------|
| | | 3 | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | | 10 | | 11 | | 12 | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | | OP | CL | OP | CL | OP | CL |
| 0.3S-100 | 0° | 204 | 213 | 241 | 252 | 278 | 291 | 314 | 329 | 351 | 368 | 388 | 407 | 425 | 445 | 498 | 523 | 572 | 600 | 646 | 677 | 719 | 755 | 793 | 832 | 866 | 909 | 12.0 |
| | 45° | 129 | 121 | 153 | 143 | 176 | 164 | 199 | 186 | 223 | 208 | 246 | 230 | 269 | 252 | 316 | 296 | 363 | 340 | 409 | 384 | 456 | 427 | 503 | 471 | 549 | 515 | |
| | 90° | 233 | 198 | 276 | 234 | 318 | 270 | 360 | 306 | 402 | 341 | 444 | 377 | 486 | 413 | 570 | 485 | 654 | 557 | 739 | 629 | 823 | 700 | 907 | 772 | 991 | 844 | |
| 0.3S-135 | 0° | 378 | 408 | 445 | 481 | 512 | 553 | 579 | 626 | 646 | 698 | 713 | 771 | 780 | 843 | 914 | 989 | 1048 | 1134 | 1182 | 1279 | 1317 | 1424 | 1451 | 1569 | 1585 | 1715 | 12.0 |
| | 45° | 239 | 231 | 282 | 272 | 324 | 313 | 367 | 354 | 409 | 395 | 452 | 437 | 494 | 478 | 580 | 560 | 665 | 642 | 750 | 724 | 835 | 807 | 920 | 889 | 1005 | 971 | |
| | 90° | 432 | 379 | 509 | 446 | 585 | 513 | 662 | 581 | 739 | 648 | 816 | 715 | 892 | 783 | 1046 | 917 | 1199 | 1052 | 1352 | 1187 | 1506 | 1322 | 1659 | 1456 | 1813 | 1591 | |
| 0.3S-175 | 0° | 642 | 704 | 755 | 828 | 867 | 951 | 980 | 1075 | 1093 | 1199 | 1205 | 1323 | 1318 | 1446 | 1543 | 1694 | 1769 | 1941 | 1994 | 2189 | 2220 | 2436 | 2445 | 2684 | - | - | 11.7 |
| | 45° | 407 | 399 | 478 | 469 | 550 | 539 | 621 | 609 | 693 | 679 | 764 | 749 | 836 | 819 | 978 | 959 | 1121 | 1100 | 1264 | 1240 | 1407 | 1380 | 1550 | 1520 | - | - | |
| | 90° | 734 | 653 | 863 | 768 | 992 | 883 | 1121 | 998 | 1250 | 1113 | 1379 | 1227 | 1507 | 1342 | 1765 | 1572 | 2023 | 1801 | 2281 | 2031 | 2539 | 2261 | 2796 | 2490 | - | - | |
| 0.3S-235 | 0° | 1170 | 1296 | 1373 | 1521 | 1576 | 1746 | 1780 | 1971 | 1983 | 2197 | 2186 | 2422 | 2389 | 2647 | - | - | - | - | - | - | - | - | - | - | - | - | 6.5 |
| | 45° | 742 | 734 | 871 | 862 | 999 | 989 | 1128 | 1117 | 1257 | 1244 | 1386 | 1372 | 1515 | 1499 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 1338 | 1203 | 1571 | 1412 | 1803 | 1621 | 2035 | 1830 | 2268 | 2038 | 2500 | 2247 | 2733 | 2456 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0.9S-235 | 0° | 1353 | 1499 | 1588 | 1759 | 1823 | 2019 | 2058 | 2280 | 2293 | 2540 | 2528 | 2800 | 2763 | 3061 | 3233 | 3582 | 3703 | 4102 | 4173 | 4623 | 4643 | 5144 | 5113 | 5665 | 5582 | 6185 | 12.0 |
| | 45° | 858 | 849 | 1007 | 996 | 1156 | 1144 | 1305 | 1291 | 1454 | 1439 | 1603 | 1586 | 1752 | 1734 | 2050 | 2029 | 2348 | 2324 | 2646 | 2619 | 2944 | 2914 | 3242 | 3209 | 3540 | 3504 | |
| | 90° | 1547 | 1391 | 1816 | 1632 | 2085 | 1874 | 2354 | 2116 | 2622 | 2357 | 2891 | 2599 | 3160 | 2840 | 3697 | 3324 | 4235 | 3807 | 4772 | 4290 | 5310 | 4774 | 5847 | 5257 | 6385 | 5740 | |
| 0.9S-280 | 0° | 1928 | 2115 | 2261 | 2481 | 2595 | 2847 | 2928 | 3213 | 3262 | 3580 | 3595 | 3946 | 3929 | 4312 | 4596 | 5045 | 5263 | 5777 | 5931 | 6510 | 6598 | 7242 | 7265 | 7975 | - | - | 11.9 |
| | 45° | 1222 | 1198 | 1434 | 1405 | 1645 | 1613 | 1857 | 1820 | 2068 | 2028 | 2280 | 2235 | 2491 | 2443 | 2914 | 2858 | 3337 | 3273 | 3760 | 3688 | 4184 | 4103 | 4607 | 4518 | - | - | |
| | 90° | 2205 | 1962 | 2586 | 2302 | 2968 | 2642 | 3349 | 2982 | 3731 | 3322 | 4112 | 3662 | 4494 | 4002 | 5257 | 4682 | 6020 | 5361 | 6783 | 6041 | 7546 | 6721 | 8309 | 7401 | - | - | |
| 1.5S-280 | 0° | 2645 | 2901 | 3102 | 3404 | 3560 | 3906 | 4017 | 4409 | 4475 | 4911 | 4933 | 5413 | 5390 | 5916 | 6305 | 6921 | 7221 | 7926 | 8136 | 8930 | 9051 | 9935 | 9966 | 10940 | 10882 | 11945 | 12.0 |
| | 45° | 1547 | 1510 | 1815 | 1772 | 2082 | 2034 | 2350 | 2295 | 2618 | 2557 | 2885 | 2818 | 3153 | 3080 | 3689 | 3603 | 4224 | 4126 | 4759 | 4649 | 5295 | 5173 | 5830 | 5696 | 6366 | 6219 | |
| | 90° | 2551 | 2271 | 2993 | 2664 | 3434 | 3058 | 3876 | 3451 | 4317 | 3844 | 4759 | 4238 | 5200 | 4631 | 6083 | 5418 | 6966 | 6204 | 7850 | 6991 | 8733 | 7778 | 9616 | 8564 | 10499 | 9351 | |
| 1.5S-335 | 0° | 3799 | 4195 | 4454 | 4919 | 5109 | 5642 | 5764 | 6366 | 6419 | 7090 | 7074 | 7814 | 7729 | 8537 | 9039 | 9985 | 10349 | 11432 | 11659 | 12880 | 12970 | 14327 | - | - | - | - | 10.4 |
| | 45° | 2222 | 2184 | 2605 | 2561 | 2989 | 2938 | 3372 | 3314 | 3755 | 3691 | 4138 | 4068 | 4521 | 4445 | 5288 | 5198 | 6054 | 5952 | 6821 | 6706 | 7587 | 7459 | - | - | - | - | |
| | 90° | 3665 | 3284 | 4297 | 3850 | 4929 | 4417 | 5561 | 4984 | 6193 | 5550 | 6825 | 6117 | 7457 | 6683 | 8721 | 7816 | 9985 | 8949 | 11249 | 10083 | 12513 | 11216 | - | - | - | - | |
| 1.5S-385 | 0° | 5052 | 5600 | 5917 | 6559 | 6783 | 7518 | 7648 | 8477 | 8513 | 9437 | 9378 | 10396 | 10243 | 11355 | 11974 | 13274 | - | - | - | - | - | - | - | - | - | - | 7.9 |
| | 45° | 2955 | 2915 | 3461 | 3415 | 3968 | 3914 | 4474 | 4414 | 4980 | 4913 | 5486 | 5412 | 5992 | 5912 | 7004 | 6911 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 4874 | 4384 | 5709 | 5135 | 6544 | 5885 | 7378 | 6636 | 8213 | 7387 | 9048 | 8138 | 9883 | 8889 | 11552 | 10391 | - | - | - | - | - | - | - | - | - | - | |
| 3S-335 | 0° | 6206 | 6853 | 7276 | 8035 | 8346 | 9218 | 9416 | 10400 | 10486 | 11582 | 11556 | 12764 | 12627 | 13947 | 14767 | 16311 | 16907 | 18676 | 19047 | 21040 | 21187 | 23405 | 23327 | 25769 | 25468 | 28134 | 12.0 |
| | 45° | 3680 | 3619 | 4314 | 4244 | 4949 | 4868 | 5584 | 5492 | 6218 | 6117 | 6853 | 6741 | 7487 | 7366 | 8756 | 8614 | 10025 | 9863 | 11295 | 11112 | 12564 | 12361 | 13833 | 13610 | 15102 | 14859 | |
| | 90° | 6160 | 5520 | 7223 | 6472 | 8285 | 7424 | 9347 | 8376 | 10409 | 9329 | 11471 | 10281 | 12534 | 11233 | 14658 | 13138 | 16783 | 15042 | 18907 | 16947 | 21031 | 18851 | 23156 | 20755 | 25280 | 22660 | |

NOTE:

* MOP = Maximum Operating Pressure (barg)

Table 8. Models 3S-385 to 6S-585

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | | MOP* (barg) | | |
|--------|----------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|----|-------------|----|------|
| | | 3 | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | | 12 | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | | OP | CL |
| 3S-385 | 0° | 8253 | 9148 | 9667 | 10715 | 11080 | 12282 | 12494 | 13849 | 13907 | 15416 | 15320 | 16983 | 16734 | 18550 | 19560 | 21684 | 22387 | 24818 | 25214 | 27952 | - | - | - | - | - | - | 9.6 |
| | 45° | 4894 | 4831 | 5732 | 5659 | 6570 | 6486 | 7408 | 7314 | 8247 | 8142 | 9085 | 8969 | 9923 | 9797 | 11599 | 11452 | 13275 | 13107 | 14951 | 14762 | - | - | - | - | - | - | |
| | 90° | 8193 | 7368 | 9596 | 8630 | 10999 | 9892 | 12402 | 11154 | 13805 | 12417 | 15208 | 13679 | 16611 | 14941 | 19417 | 17465 | 22222 | 19989 | 25028 | 22513 | - | - | - | - | - | - | |
| 3S-435 | 0° | 10573 | 11747 | 12377 | 13753 | 14181 | 15758 | 15986 | 17763 | 17790 | 19768 | 19594 | 21773 | 21398 | 23778 | 25007 | 27789 | - | - | - | - | - | - | - | - | - | - | 7.5 |
| | 45° | 6269 | 6204 | 7339 | 7263 | 8409 | 8322 | 9479 | 9381 | 10549 | 10440 | 11619 | 11499 | 12689 | 12558 | 14829 | 14676 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 10495 | 9462 | 12286 | 11077 | 14077 | 12692 | 15868 | 14307 | 17659 | 15922 | 19450 | 17537 | 21241 | 19152 | 24823 | 22382 | - | - | - | - | - | - | - | - | - | - | |
| 3S-485 | 0° | 13188 | 14678 | 15431 | 17175 | 17674 | 19672 | 19917 | 22169 | 22160 | 24666 | 24402 | 27162 | 26645 | 29659 | - | - | - | - | - | - | - | - | - | - | - | - | 6.0 |
| | 45° | 7820 | 7752 | 9150 | 9071 | 10480 | 10389 | 11810 | 11708 | 13140 | 13027 | 14470 | 14345 | 15800 | 15664 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 13091 | 11822 | 15317 | 13833 | 17544 | 15844 | 19770 | 17855 | 21997 | 19866 | 24223 | 21877 | 26449 | 23888 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6S-485 | 0° | 15390 | 17130 | 18008 | 20044 | 20625 | 22958 | 23243 | 25871 | 25860 | 28785 | 28478 | 31699 | 31095 | 34613 | 36331 | 40440 | 41566 | 46268 | 46801 | 52095 | 52036 | 57923 | - | - | - | - | 10.3 |
| | 45° | 9143 | 9064 | 10698 | 10606 | 12253 | 12148 | 13808 | 13690 | 15363 | 15232 | 16918 | 16774 | 18473 | 18316 | 21583 | 21399 | 24693 | 24483 | 27803 | 27567 | 30913 | 30650 | - | - | - | - | |
| | 90° | 15336 | 13850 | 17944 | 16206 | 20553 | 18562 | 23161 | 20918 | 25769 | 23274 | 28377 | 25630 | 30986 | 27985 | 36202 | 32697 | 41419 | 37409 | 46635 | 42121 | 51852 | 46832 | - | - | - | - | |
| 6S-535 | 0° | 18791 | 20941 | 21976 | 24491 | 25161 | 28041 | 28346 | 31591 | 31531 | 35141 | 34716 | 38691 | 37901 | 42240 | 44271 | 49340 | 50641 | 56440 | - | - | - | - | - | - | - | - | 8.5 |
| | 45° | 11163 | 11081 | 13055 | 12960 | 14948 | 14838 | 16840 | 16717 | 18732 | 18595 | 20624 | 20474 | 22516 | 22352 | 26301 | 26109 | 30085 | 29866 | - | - | - | - | - | - | - | - | |
| | 90° | 18725 | 16932 | 21899 | 19802 | 25072 | 22672 | 28246 | 25542 | 31420 | 28413 | 34594 | 31283 | 37767 | 34153 | 44115 | 39893 | 50462 | 45633 | - | - | - | - | - | - | - | - | |
| 6S-585 | 0° | 22468 | 25062 | 26276 | 29310 | 30084 | 33559 | 33892 | 37807 | 37700 | 42055 | 41509 | 46303 | 45317 | 50552 | 52933 | 59048 | - | - | - | - | - | - | - | - | - | - | 7.1 |
| | 45° | 13347 | 13262 | 15610 | 15510 | 17872 | 17758 | 20135 | 20006 | 22397 | 22254 | 24659 | 24502 | 26922 | 26750 | 31446 | 31246 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 22388 | 20264 | 26183 | 23698 | 29978 | 27133 | 33773 | 30568 | 37567 | 34003 | 41362 | 37438 | 45157 | 40873 | 52746 | 47743 | - | - | - | - | - | - | - | - | - | - | |

NOTE:

* MOP = Maximum Operating Pressure (barg)

Table 9. Models 14S-635 to 32S-835

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | | MOP* (barg) | | |
|----------|----------|----------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|------|
| | | 3 | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | | 12 | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | | OP | CL |
| 14S-635 | 0° | 29368 | 32617 | 34346 | 38146 | 39324 | 43676 | 44301 | 49205 | 49279 | 54734 | 54257 | 60263 | 59234 | 65793 | 69190 | 76851 | 79145 | 87910 | 89101 | 98968 | 99056 | 110027 | - | - | - | - | 10.9 |
| | 45° | 17180 | 16982 | 20092 | 19861 | 23004 | 22740 | 25916 | 25619 | 28828 | 28497 | 31740 | 31376 | 34652 | 34255 | 40476 | 40013 | 46300 | 45770 | 52124 | 51528 | 57948 | 57286 | - | - | - | - | |
| | 90° | 28334 | 25534 | 33137 | 29862 | 37939 | 34191 | 42742 | 38519 | 47544 | 42848 | 52347 | 47176 | 57149 | 51505 | 66754 | 60162 | 76359 | 68819 | 85964 | 77476 | 95569 | 86133 | - | - | - | - | |
| 14S-735 | 0° | 39346 | 43801 | 46015 | 51226 | 52684 | 58650 | 59353 | 66075 | 66022 | 73500 | 72691 | 80925 | 79360 | 88350 | 92698 | 103199 | 106036 | 118049 | - | - | - | - | - | - | - | - | 8.1 |
| | 45° | 23018 | 22805 | 26919 | 26671 | 30820 | 30536 | 34722 | 34402 | 38623 | 38268 | 42524 | 42134 | 46426 | 46000 | 54229 | 53731 | 62031 | 61463 | - | - | - | - | - | - | - | - | |
| | 90° | 37961 | 34289 | 44396 | 40101 | 50830 | 45914 | 57264 | 51726 | 63698 | 57539 | 70132 | 63351 | 76567 | 69163 | 89435 | 80788 | 102303 | 92413 | - | - | - | - | - | - | - | - | |
| 18S-635 | 0° | 33764 | 37499 | 39487 | 43856 | 45209 | 50213 | 50932 | 56570 | 56655 | 62926 | 62378 | 69283 | 68100 | 75640 | 79546 | 88354 | 90991 | 101067 | 102437 | 113781 | 113883 | 126495 | 125328 | 139208 | 136774 | 151922 | 12.0 |
| | 45° | 19758 | 19530 | 23107 | 22841 | 26455 | 26152 | 29804 | 29462 | 33153 | 32773 | 36502 | 36084 | 39851 | 39395 | 46548 | 46016 | 53246 | 52638 | 59944 | 59259 | 66641 | 65881 | 73339 | 72502 | 80037 | 79124 | |
| | 90° | 32595 | 29374 | 38120 | 34353 | 43645 | 39333 | 49170 | 44312 | 54694 | 49292 | 60219 | 54271 | 65744 | 59251 | 76793 | 69210 | 87843 | 79168 | 98892 | 89127 | 109942 | 99086 | 120991 | 109045 | 132041 | 119004 | |
| 18S-685 | 0° | 39290 | 43693 | 45950 | 51100 | 52609 | 58507 | 59269 | 65913 | 65928 | 73320 | 72588 | 80727 | 79247 | 88133 | 92566 | 102947 | 105885 | 117760 | 119204 | 132574 | 132523 | 147387 | 145842 | 162200 | 159161 | 177014 | 12.0 |
| | 45° | 22992 | 22756 | 26889 | 26614 | 30786 | 30471 | 34683 | 34329 | 38580 | 38186 | 42477 | 42044 | 46374 | 45901 | 54168 | 53617 | 61962 | 61332 | 69755 | 69047 | 77549 | 76762 | 85343 | 84477 | 93137 | 92192 | |
| | 90° | 37931 | 34226 | 44360 | 40028 | 50789 | 45830 | 57218 | 51631 | 63647 | 57433 | 70076 | 63235 | 76505 | 69037 | 89363 | 80641 | 102221 | 92244 | 115079 | 103848 | 127937 | 115452 | 140795 | 127055 | 153653 | 138659 | |
| 18S-735 | 0° | 45236 | 50357 | 52903 | 58893 | 60570 | 67429 | 68237 | 75965 | 75904 | 84501 | 83571 | 93037 | 91238 | 101573 | 106573 | 118645 | 121907 | 135718 | 137241 | 152790 | 152576 | 169862 | - | - | - | - | 10.5 |
| | 45° | 26471 | 26227 | 30957 | 30672 | 35444 | 35118 | 39931 | 39564 | 44417 | 44010 | 48904 | 48455 | 53391 | 52901 | 62364 | 61793 | 71337 | 70684 | 80310 | 79576 | 89284 | 88467 | - | - | - | - | |
| | 90° | 43670 | 39446 | 51072 | 46132 | 58474 | 52819 | 65876 | 59505 | 73278 | 66192 | 80679 | 72878 | 88081 | 79565 | 102885 | 92938 | 117689 | 106311 | 132492 | 119684 | 147296 | 133057 | - | - | - | - | |
| 18S2-635 | 0° | 67222 | 75342 | 78616 | 88113 | 90010 | 100884 | 101405 | 113655 | 112799 | 126426 | 124194 | 139197 | 135588 | 151968 | 158377 | 177510 | - | - | - | - | - | - | - | - | - | - | 7.0 |
| | 45° | 39336 | 39240 | 46004 | 45891 | 52672 | 52542 | 59340 | 59194 | 66008 | 65845 | 72675 | 72496 | 79343 | 79148 | 92679 | 92450 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 64895 | 59017 | 75896 | 69021 | 86896 | 79025 | 97896 | 89029 | 108896 | 99032 | 119896 | 109036 | 130896 | 119040 | 152897 | 139048 | - | - | - | - | - | - | - | - | - | - | |
| 18S2-685 | 0° | 78275 | 87731 | 91543 | 102601 | 104810 | 117472 | 118078 | 132343 | 131346 | 147213 | 144614 | 162084 | 157882 | 176954 | - | - | - | - | - | - | - | - | - | - | - | - | 6.1 |
| | 45° | 45804 | 45692 | 53569 | 53437 | 61333 | 61182 | 69097 | 68926 | 76861 | 76671 | 84625 | 84416 | 92389 | 92161 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 75566 | 68721 | 88375 | 80370 | 101184 | 92019 | 113992 | 103667 | 126801 | 115316 | 139610 | 126964 | 152419 | 138613 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 32S-685 | 0° | 45535 | 50638 | 53253 | 59222 | 60971 | 67806 | 68689 | 76390 | 76407 | 84973 | 84125 | 93557 | 91843 | 102141 | 107279 | 119309 | 122714 | 136477 | 138150 | 153645 | 153586 | 170812 | 169022 | 187980 | 184458 | 205148 | 12.0 |
| | 45° | 27002 | 26744 | 31579 | 31278 | 36155 | 35811 | 40732 | 40345 | 45309 | 44878 | 49885 | 49412 | 54462 | 53945 | 63615 | 63012 | 72769 | 72080 | 81922 | 81147 | 91076 | 90214 | 100229 | 99281 | 109382 | 108348 | |
| | 90° | 45200 | 40786 | 52862 | 47699 | 60523 | 54613 | 68184 | 61527 | 75845 | 68441 | 83506 | 75354 | 91168 | 82268 | 106490 | 96096 | 121812 | 109923 | 137135 | 123751 | 152457 | 137579 | 167779 | 151406 | 183102 | 165234 | |
| 32S-735 | 0° | 52425 | 58360 | 61311 | 68253 | 70197 | 78146 | 79083 | 88039 | 87968 | 97932 | 96854 | 107824 | 105740 | 117717 | 123511 | 137503 | 141283 | 157288 | 159054 | 177074 | 176826 | 196860 | 194597 | 216645 | 212369 | 236431 | 12.0 |
| | 45° | 31088 | 30823 | 36357 | 36047 | 41626 | 41272 | 46895 | 46497 | 52165 | 51722 | 57434 | 56947 | 62703 | 62172 | 73241 | 72621 | 83780 | 83071 | 94318 | 93521 | 104857 | 103970 | 115395 | 114420 | 125933 | 124870 | |
| | 90° | 52040 | 47006 | 60860 | 54974 | 69681 | 62942 | 78501 | 70910 | 87322 | 78878 | 96142 | 86846 | 104962 | 94814 | 122603 | 110750 | 140244 | 126686 | 157885 | 142622 | 175526 | 158558 | 193167 | 174494 | 210808 | 190430 | |
| 32S-835 | 0° | 67661 | 75437 | 79129 | 88224 | 90598 | 101011 | 102066 | 113798 | 113534 | 126585 | 125002 | 139373 | 136470 | 152160 | 159406 | 177734 | 182342 | 203308 | 205279 | 228882 | 228215 | 254457 | 251151 | 280031 | 274087 | 305605 | 12.0 |
| | 45° | 40123 | 39842 | 46923 | 46595 | 53724 | 53348 | 60524 | 60102 | 67325 | 66855 | 74125 | 73609 | 80926 | 80362 | 94527 | 93869 | 108128 | 107376 | 121729 | 120883 | 135330 | 134390 | 148931 | 147897 | 162532 | 161404 | |
| | 90° | 67164 | 60760 | 78548 | 71059 | 89932 | 81358 | 101315 | 91657 | 112699 | 101956 | 124083 | 112256 | 135467 | 122555 | 158234 | 143153 | 181002 | 163752 | 203770 | 184350 | 226537 | 204949 | 249305 | 225547 | 272072 | 246146 | |

NOTE:

* MOP = Maximum Operating Pressure (barg)

Table 10. Models 32S2-685 to 50S2-1000

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | | MOP* (barg) | | | |
|-----------|----------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|----|---|
| | | 3 | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | | 12 | | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | | OP | CL | |
| 32S2-685 | 0° | 90716 | 101674 | 106092 | 118909 | 121469 | 136143 | 136845 | 153377 | 152222 | 170611 | 167599 | 187845 | 182975 | 205079 | 213729 | 239548 | 244482 | 274016 | 275235 | 308484 | - | - | - | - | - | - | - | - |
| | 45° | 53794 | 53699 | 62912 | 62801 | 72030 | 71903 | 81149 | 81005 | 90267 | 90107 | 99385 | 99210 | 108503 | 108312 | 126740 | 126516 | 144976 | 144720 | 163213 | 162925 | - | - | - | - | - | - | - | - |
| | 90° | 90049 | 81892 | 105312 | 95773 | 120576 | 109654 | 135840 | 123535 | 151103 | 137416 | 166367 | 151297 | 181630 | 165178 | 212157 | 192940 | 242685 | 220703 | 273212 | 248465 | - | - | - | - | - | - | - | - |
| 50S-935 | 0° | 94265 | 105050 | 110242 | 122857 | 126219 | 140664 | 142196 | 158471 | 158173 | 176278 | 174151 | 194085 | 190128 | 211891 | 222082 | 247505 | 254036 | 283119 | 285991 | 318733 | 317945 | 354346 | 349899 | 389960 | 381854 | 425574 | - | - |
| | 45° | 55898 | 55482 | 65373 | 64886 | 74847 | 74291 | 84321 | 83696 | 93796 | 93100 | 103270 | 102505 | 112745 | 111909 | 131693 | 130719 | 150642 | 149528 | 169591 | 168337 | 188540 | 187147 | 207488 | 205956 | 226437 | 224765 | - | - |
| | 90° | 93572 | 84611 | 109432 | 98953 | 125291 | 113296 | 141151 | 127638 | 157011 | 141980 | 172870 | 156323 | 188730 | 170665 | 220449 | 199350 | 252169 | 228034 | 283888 | 256719 | 315608 | 285404 | 347327 | 314088 | 379047 | 342773 | - | - |
| 50S-1000 | 0° | 107827 | 120250 | 126103 | 140634 | 144378 | 161017 | 162654 | 181400 | 180930 | 201783 | 199206 | 222166 | 217482 | 242550 | 254033 | 283316 | 290585 | 324082 | 327136 | 364849 | 363688 | 405615 | 400240 | 446382 | - | - | - | - |
| | 45° | 63941 | 63510 | 74778 | 74275 | 85615 | 85040 | 96453 | 95806 | 107290 | 106571 | 118128 | 117336 | 128965 | 128101 | 150640 | 149632 | 172315 | 171163 | 193990 | 192693 | 215665 | 214224 | 237340 | 235755 | - | - | - | - |
| | 90° | 107034 | 96854 | 125176 | 113271 | 143317 | 129689 | 161458 | 146106 | 179600 | 162524 | 197741 | 178941 | 215883 | 195358 | 252166 | 228193 | 288449 | 261028 | 324731 | 293863 | 361014 | 326697 | 397297 | 359532 | - | - | - | - |
| 50S-1100 | 0° | 130470 | 145445 | 152584 | 170099 | 174698 | 194753 | 196812 | 219407 | 218925 | 244061 | 241039 | 268715 | 263153 | 293369 | 307380 | 342677 | 351608 | 391986 | 395835 | 441294 | - | - | - | - | - | - | - | - |
| | 45° | 77368 | 76816 | 90481 | 89837 | 103595 | 102858 | 116708 | 115879 | 129821 | 128900 | 142935 | 141921 | 156048 | 154942 | 182275 | 180984 | 208501 | 207025 | 234728 | 233067 | - | - | - | - | - | - | - | - |
| | 90° | 129511 | 117147 | 151462 | 137004 | 173414 | 156861 | 195365 | 176719 | 217316 | 196576 | 239267 | 216433 | 261218 | 236290 | 305121 | 276005 | 349023 | 315719 | 392925 | 355434 | - | - | - | - | - | - | - | - |
| 50S2-935 | 0° | 187993 | 210703 | 219857 | 246417 | 251722 | 282131 | 283587 | 317845 | 315452 | 353559 | 347317 | 389274 | 379181 | 424988 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 45° | 111479 | 111282 | 130374 | 130144 | 149270 | 149006 | 168166 | 167869 | 187061 | 186731 | 205957 | 205593 | 224852 | 224455 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 90° | 186611 | 169708 | 218241 | 198473 | 249872 | 227239 | 281502 | 256004 | 313133 | 284770 | 344763 | 313535 | 376394 | 342301 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50S2-1000 | 0° | 215117 | 241103 | 251579 | 281970 | 288041 | 322837 | 324503 | 363704 | 360965 | 404571 | 397427 | 445437 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 45° | 127563 | 127338 | 149185 | 148921 | 170807 | 170505 | 192428 | 192089 | 214050 | 213672 | 235672 | 235256 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | 90° | 213535 | 194194 | 249729 | 227109 | 285923 | 260025 | 322117 | 292940 | 358311 | 325856 | 394505 | 358772 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOTE:

* MOP = Maximum Operating Pressure (barg)

Table 11. Models 80S-935 to 80S2-1200

| Model | Position | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | | MOP* (barg) | | |
|-----------|----------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|------|
| | | 3 | | 3.5 | | 4 | | 4.5 | | 5 | | 5.5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | | 12 | |
| | | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | OP | CL | | OP | CL |
| 80S-935 | 0° | 109976 | 122559 | 128616 | 143333 | 147256 | 164108 | 165896 | 184883 | 184536 | 205657 | 203176 | 226432 | 221816 | 247207 | 259096 | 288756 | 296376 | 330306 | 333656 | 371855 | 370936 | 413404 | 408216 | 454954 | 445496 | 496503 | 12.0 |
| | 45° | 65215 | 64729 | 76268 | 75701 | 87322 | 86673 | 98375 | 97645 | 109429 | 108617 | 120482 | 119589 | 131535 | 130561 | 153642 | 152505 | 175749 | 174449 | 197856 | 196394 | 219963 | 218338 | 242070 | 240282 | 264177 | 262226 | |
| | 90° | 109167 | 98713 | 127670 | 115446 | 146173 | 132178 | 164676 | 148911 | 183179 | 165644 | 201682 | 182377 | 220185 | 199109 | 257191 | 232575 | 294197 | 266040 | 331203 | 299506 | 368209 | 332971 | 405215 | 366436 | 442221 | 399902 | |
| 80S-1000 | 0° | 125798 | 140292 | 147120 | 164073 | 168441 | 187853 | 189763 | 211633 | 211085 | 235414 | 232407 | 259194 | 253729 | 282975 | 296372 | 330535 | 339016 | 378096 | 381659 | 425657 | 424303 | 473218 | 466946 | 520779 | 509590 | 568340 | 12.0 |
| | 45° | 74597 | 74095 | 87241 | 86654 | 99885 | 99214 | 112528 | 111773 | 125172 | 124333 | 137816 | 136892 | 150460 | 149452 | 175747 | 174571 | 201034 | 199690 | 226322 | 224809 | 251609 | 249928 | 276897 | 275047 | 302184 | 300166 | |
| | 90° | 124873 | 112996 | 146038 | 132150 | 167203 | 151304 | 188368 | 170457 | 209533 | 189611 | 230698 | 208765 | 251863 | 227918 | 294193 | 266225 | 336523 | 304533 | 378853 | 342840 | 421184 | 381147 | 463514 | 419454 | 505844 | 457762 | |
| 80S-1100 | 0° | 152216 | 169686 | 178015 | 198449 | 203814 | 227212 | 229614 | 255975 | 255413 | 284738 | 281212 | 313501 | 307012 | 342264 | 358610 | 399790 | 410209 | 457317 | 461808 | 514843 | 513406 | 572369 | 565005 | 629895 | 616604 | 687421 | 12.0 |
| | 45° | 90263 | 89619 | 105562 | 104810 | 120861 | 120001 | 136160 | 135192 | 151458 | 150383 | 166757 | 165574 | 182056 | 180765 | 212654 | 211148 | 243252 | 241530 | 273850 | 271912 | 304447 | 302294 | 335045 | 332676 | 365643 | 363059 | |
| | 90° | 151097 | 136671 | 176706 | 159838 | 202316 | 183005 | 227926 | 206172 | 253535 | 229339 | 279145 | 252505 | 304755 | 275672 | 355974 | 322006 | 407193 | 368339 | 458413 | 414673 | 509632 | 461007 | 560852 | 507340 | 612071 | 553674 | |
| 80S-1200 | 0° | 181149 | 202115 | 211853 | 236375 | 242556 | 270634 | 273259 | 304893 | 303963 | 339153 | 334666 | 373412 | 365369 | 407672 | 426776 | 476191 | 488183 | 544710 | 549589 | 613229 | 610996 | 681748 | - | - | - | - | 10.9 |
| | 45° | 107420 | 106746 | 125627 | 124840 | 143834 | 142934 | 162041 | 161028 | 180248 | 179122 | 198455 | 197216 | 216662 | 215310 | 253076 | 251498 | 289490 | 287686 | 325904 | 323874 | 362318 | 360062 | - | - | - | - | |
| | 90° | 179818 | 162791 | 210295 | 190385 | 240773 | 217978 | 271250 | 245572 | 301728 | 273166 | 332206 | 300760 | 362683 | 328354 | 423639 | 383542 | 484594 | 438729 | 545549 | 493917 | 606505 | 549105 | - | - | - | - | |
| 80S2-935 | 0° | 219325 | 245820 | 256500 | 287487 | 293676 | 329153 | 330852 | 370820 | 368027 | 412486 | 405203 | 454153 | 442378 | 495819 | 516729 | 579152 | 591081 | 662485 | 665432 | 745818 | - | - | - | - | - | - | 9.0 |
| | 45° | 130058 | 129829 | 152103 | 151835 | 174148 | 173841 | 196193 | 195847 | 218238 | 217853 | 240283 | 239859 | 262328 | 261865 | 306418 | 305877 | 350508 | 349889 | 394598 | 393901 | - | - | - | - | - | - | |
| | 90° | 217713 | 197992 | 254615 | 231552 | 291517 | 265112 | 328419 | 298672 | 365322 | 332231 | 402224 | 365791 | 439126 | 399351 | 512931 | 466470 | 586735 | 533590 | 660540 | 600709 | - | - | - | - | - | - | |
| 80S2-1000 | 0° | 250969 | 281287 | 293509 | 328965 | 336048 | 376643 | 378587 | 424321 | 421126 | 471999 | 463665 | 519677 | 506204 | 567355 | 591282 | 662711 | - | - | - | - | - | - | - | - | - | - | 7.9 |
| | 45° | 148823 | 148561 | 174049 | 173742 | 199274 | 198923 | 224500 | 224103 | 249725 | 249284 | 274951 | 274465 | 300176 | 299646 | 350627 | 350008 | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 249125 | 226559 | 291351 | 264961 | 333577 | 303362 | 375804 | 341764 | 418030 | 380165 | 460256 | 418567 | 502483 | 456969 | 586935 | 533772 | - | - | - | - | - | - | - | - | - | - | |
| 80S2-1100 | 0° | 303613 | 340290 | 355075 | 397969 | 406537 | 455648 | 458000 | 513327 | 509462 | 571007 | 560924 | 628686 | 612386 | 686365 | - | - | - | - | - | - | - | - | - | - | - | - | 6.5 |
| | 45° | 180041 | 179723 | 210558 | 210186 | 241074 | 240649 | 271591 | 271112 | 302108 | 301575 | 332625 | 332038 | 363142 | 362501 | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 301381 | 274082 | 352465 | 320539 | 403549 | 366996 | 454633 | 413453 | 505717 | 459910 | 556801 | 506366 | 607884 | 552823 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 80S2-1200 | 0° | 361480 | 405148 | 422750 | 473820 | 484021 | 542492 | 545291 | 611164 | 606561 | 679836 | 667831 | 748508 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5.5 |
| | 45° | 214356 | 213977 | 250689 | 250246 | 287022 | 286515 | 323355 | 322784 | 359688 | 359053 | 396021 | 395321 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 90° | 358823 | 326321 | 419643 | 381632 | 480463 | 436943 | 541282 | 492254 | 602102 | 547565 | 662922 | 602876 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

NOTE:

* MOP = Maximum Operating Pressure (barg)

ALGAS Spring-Return Pneumatic Actuator Output Torques (Nm) Canted Yoke Design, Spring to Close

Table 12. Models 0.3C-008A-100-CL to 0.9C-0350-335-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 0.3C-008A-100-CL | 4.3 | 12.0 | 198 | 111 | 183 | - | - | - | - | - | - | - | - | - | 290 | 50 | 50 | 348 | 80 | 83 | 407 | 105 | 116 |
| 0.3C-008A-135-CL | 2.6 | 12.0 | 191 | 106 | 169 | 391 | 98 | 107 | 497 | 141 | 167 | 604 | 184 | 227 | 711 | 226 | 287 | 818 | 268 | 348 | 925 | 310 | 408 |
| 0.3C-008B-100-CL | 5.9 | 12.0 | 304 | 153 | 182 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3C-008B-135-CL | 3.5 | 12.0 | 297 | 148 | 168 | - | - | - | - | - | - | 606 | 117 | 117 | 713 | 169 | 177 | 820 | 213 | 238 | 926 | 257 | 298 |
| 0.3C-008C-100-CL | 7.0 | 12.0 | 367 | 188 | 235 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3C-008C-135-CL | 4.1 | 12.0 | 360 | 182 | 221 | - | - | - | - | - | - | - | - | - | 659 | 109 | 109 | 766 | 168 | 169 | 873 | 214 | 230 |
| 0.3C-008C-175-CL | 2.7 | 10.0 | 352 | 176 | 204 | 760 | 165 | 166 | 939 | 242 | 267 | 1119 | 314 | 368 | 1298 | 386 | 469 | 1478 | 457 | 570 | 1657 | 528 | 672 |
| 0.3C-0100-135-CL | 6.2 | 12.0 | 586 | 319 | 478 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3C-0100-175-CL | 3.9 | 9.9 | 577 | 312 | 461 | - | - | - | - | - | - | 863 | 119 | 119 | 1043 | 221 | 221 | 1222 | 300 | 322 | 1402 | 374 | 423 |
| 0.3C-0100-235-CL | 2.4 | 5.5 | 564 | 302 | 434 | 1346 | 351 | 391 | 1669 | 481 | 574 | 1993 | 610 | 756 | 2317 | 738 | 939 | 2641 | 865 | 1121 | 2964 | 993 | 1304 |
| 0.3C-0150-175-CL | 4.8 | 10.6 | 732 | 428 | 777 | - | - | - | - | - | - | - | - | - | - | - | - | 907 | 144 | 144 | 1087 | 242 | 245 |
| 0.3C-0150-235-CL | 2.9 | 6.0 | 719 | 419 | 750 | 1031 | 214 | 214 | 1354 | 355 | 396 | 1678 | 485 | 579 | 2002 | 613 | 761 | 2326 | 741 | 944 | 2649 | 869 | 1126 |
| 0.9C-0200-235-CL | 3.3 | 12.0 | 964 | 559 | 992 | - | - | - | 1443 | 313 | 313 | 1817 | 472 | 524 | 2192 | 623 | 735 | 2566 | 772 | 946 | 2940 | 920 | 1157 |
| 0.9C-0200-280-CL | 2.5 | 9.6 | 949 | 548 | 962 | 1984 | 540 | 618 | 2516 | 752 | 918 | 3047 | 962 | 1218 | 3578 | 1172 | 1517 | 4110 | 1380 | 1817 | 4641 | 1589 | 2116 |
| 0.9C-0200-335-CL | 1.9 | 6.7 | 939 | 540 | 939 | 3340 | 1078 | 1383 | 4101 | 1377 | 1811 | 4861 | 1675 | 2240 | 5622 | 1973 | 2669 | 6383 | 2271 | 3098 | 7144 | 2569 | 3527 |
| 0.9C-0250-235-CL | 3.8 | 12.0 | 1158 | 703 | 1388 | - | - | - | - | - | - | 1422 | 302 | 302 | 1796 | 463 | 513 | 2171 | 615 | 724 | 2545 | 764 | 935 |
| 0.9C-0250-280-CL | 2.9 | 9.9 | 1143 | 692 | 1358 | 1589 | 377 | 396 | 2120 | 595 | 695 | 2652 | 806 | 995 | 3183 | 1016 | 1294 | 3715 | 1225 | 1594 | 4246 | 1434 | 1894 |
| 0.9C-0250-335-CL | 2.2 | 6.9 | 1132 | 684 | 1336 | 2945 | 922 | 1160 | 3705 | 1222 | 1589 | 4466 | 1520 | 2018 | 5227 | 1819 | 2446 | 5988 | 2117 | 2875 | 6749 | 2414 | 3304 |
| 0.9C-0350-280-CL | 4.1 | 10.5 | 1837 | 1075 | 1946 | - | - | - | - | - | - | - | - | - | 2598 | 541 | 541 | 3129 | 779 | 841 | 3661 | 996 | 1141 |
| 0.9C-0350-335-CL | 3.0 | 7.3 | 1826 | 1067 | 1924 | - | - | - | 3120 | 775 | 836 | 3881 | 1084 | 1265 | 4642 | 1388 | 1693 | 5402 | 1689 | 2122 | 6163 | 1989 | 2551 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 13. Models 0.3C-008A-100-CL to 0.9C-0350-335-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 0.3C-008A-100-CL | 4.3 | 12.0 | 198 | 111 | 183 | 466 | 128 | 149 | 583 | 175 | 215 | 817 | 268 | 347 | 935 | 314 | 413 | 1169 | 406 | 545 |
| 0.3C-008A-135-CL | 2.6 | 12.0 | 191 | 106 | 169 | 1032 | 352 | 468 | 1245 | 436 | 588 | 1673 | 603 | 829 | 1886 | 687 | 950 | 2314 | 854 | 1191 |
| 0.3C-008B-100-CL | 5.9 | 12.0 | 304 | 153 | 182 | 467 | 39 | 39 | 585 | 105 | 105 | 819 | 213 | 237 | 936 | 261 | 303 | 1171 | 354 | 436 |
| 0.3C-008B-135-CL | 3.5 | 12.0 | 297 | 148 | 168 | 1033 | 299 | 358 | 1247 | 384 | 478 | 1674 | 553 | 719 | 1888 | 637 | 840 | 2315 | 804 | 1081 |
| 0.3C-008C-100-CL | 7.0 | 12.0 | 367 | 188 | 235 | - | - | - | - | - | - | 766 | 168 | 169 | 883 | 218 | 235 | 1117 | 314 | 367 |
| 0.3C-008C-135-CL | 4.1 | 12.0 | 360 | 182 | 221 | 980 | 258 | 290 | 1194 | 344 | 410 | 1621 | 514 | 651 | 1835 | 598 | 772 | 2262 | 766 | 1012 |
| 0.3C-008C-175-CL | 2.7 | 10.0 | 352 | 176 | 204 | 1837 | 599 | 773 | 2196 | 740 | 975 | 2914 | 1021 | 1380 | - | - | - | - | - | - |
| 0.3C-0100-135-CL | 6.2 | 12.0 | 586 | 319 | 478 | - | - | - | 938 | 162 | 162 | 1366 | 359 | 402 | 1579 | 445 | 523 | 2007 | 615 | 764 |
| 0.3C-0100-175-CL | 3.9 | 9.9 | 577 | 312 | 461 | 1581 | 446 | 524 | 1941 | 589 | 727 | 2659 | 872 | 1131 | - | - | - | - | - | - |
| 0.3C-0100-235-CL | 2.4 | 5.5 | 564 | 302 | 434 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3C-0150-175-CL | 4.8 | 10.6 | 732 | 428 | 777 | 1266 | 318 | 347 | 1625 | 464 | 549 | 2344 | 748 | 954 | 2703 | 890 | 1156 | - | - | - |
| 0.3C-0150-235-CL | 2.9 | 6.0 | 719 | 419 | 750 | 2973 | 996 | 1309 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0200-235-CL | 3.3 | 12.0 | 964 | 559 | 992 | 3315 | 1068 | 1369 | 4063 | 1362 | 1791 | 5561 | 1949 | 2635 | 6310 | 2243 | 3057 | 7807 | 2829 | 3901 |
| 0.9C-0200-280-CL | 2.5 | 9.6 | 949 | 548 | 962 | 5173 | 1797 | 2416 | 6236 | 2214 | 3015 | 8362 | 3046 | 4213 | - | - | - | - | - | - |
| 0.9C-0200-335-CL | 1.9 | 6.7 | 939 | 540 | 939 | 7904 | 2867 | 3955 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0250-235-CL | 3.8 | 12.0 | 1158 | 703 | 1388 | 2920 | 912 | 1146 | 3668 | 1207 | 1568 | 5166 | 1795 | 2412 | 5915 | 2088 | 2834 | 7412 | 2674 | 3678 |
| 0.9C-0250-280-CL | 2.9 | 9.9 | 1143 | 692 | 1358 | 4778 | 1642 | 2193 | 5841 | 2059 | 2792 | 7967 | 2891 | 3990 | - | - | - | - | - | - |
| 0.9C-0250-335-CL | 2.2 | 6.9 | 1132 | 684 | 1336 | 7509 | 2712 | 3733 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0350-280-CL | 4.1 | 10.5 | 1837 | 1075 | 1946 | 4192 | 1209 | 1440 | 5255 | 1631 | 2039 | 7381 | 2468 | 3237 | 8444 | 2885 | 3837 | - | - | - |
| 0.9C-0350-335-CL | 3.0 | 7.3 | 1826 | 1067 | 1924 | 6924 | 2288 | 2980 | 8446 | 2885 | 3837 | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 14. Models 0.9C-0350-385-CL to 1.5C-0800-485-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|----------------------------------|------|------|------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | | | BTC | RTC | ETC | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 0.9C-0350-385-CL | 2.4 | 5.5 | 1813 | 1057 | 1897 | 3800 | 1052 | 1219 | 4805 | 1452 | 1785 | 5809 | 1849 | 2352 | 6814 | 2245 | 2918 | 7819 | 2640 | 3484 | 8824 | 3034 | 4051 |
| 0.9C-0350-435-CL | 2.0 | 4.3 | 1803 | 1050 | 1876 | 5449 | 1707 | 2148 | 6731 | 2212 | 2871 | 8014 | 2716 | 3594 | - | - | - | - | - | - | - | - | - |
| 0.9C-0350-485-CL | 1.7 | 3.0 | 1797 | 1045 | 1863 | 7308 | 2439 | 3196 | 8902 | 3064 | 4095 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-280-CL | 4.8 | 11.1 | 2173 | 1324 | 2634 | - | - | - | - | - | - | - | - | - | - | - | - | 2444 | 455 | 455 | 2976 | 714 | 754 |
| 0.9C-0400-335-CL | 3.5 | 7.8 | 2162 | 1316 | 2612 | - | - | - | - | - | - | 3196 | 806 | 878 | 3957 | 1115 | 1307 | 4717 | 1418 | 1736 | 5478 | 1719 | 2165 |
| 0.9C-0400-385-CL | 2.8 | 5.9 | 2149 | 1306 | 2585 | 3115 | 772 | 833 | 4119 | 1180 | 1399 | 5124 | 1579 | 1965 | 6129 | 1975 | 2532 | 7134 | 2370 | 3098 | 8139 | 2765 | 3664 |
| 0.9C-0400-435-CL | 2.3 | 4.6 | 2139 | 1299 | 2564 | 4763 | 1436 | 1762 | 6046 | 1943 | 2485 | 7329 | 2447 | 3208 | 8612 | 2950 | 3931 | - | - | - | - | - | - |
| 0.9C-0400-485-CL | 1.9 | 3.7 | 2132 | 1294 | 2551 | 6623 | 2170 | 2810 | 8217 | 2796 | 3709 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-335-CL | 3.8 | 8.1 | 2357 | 1464 | 3047 | - | - | - | - | - | - | 2763 | 634 | 652 | 3523 | 949 | 1081 | 4284 | 1254 | 1510 | 5045 | 1556 | 1938 |
| 0.9C-0420-385-CL | 3.0 | 6.1 | 2344 | 1455 | 3020 | - | - | - | 3686 | 1015 | 1173 | 4691 | 1416 | 1739 | 5696 | 1813 | 2305 | 6701 | 2209 | 2872 | 7706 | 2603 | 3438 |
| 0.9C-0420-435-CL | 2.4 | 4.8 | 2334 | 1448 | 2999 | 4330 | 1273 | 1536 | 5613 | 1781 | 2259 | 6896 | 2285 | 2982 | 8179 | 2789 | 3705 | - | - | - | - | - | - |
| 0.9C-0420-485-CL | 2.1 | 3.9 | 2328 | 1443 | 2986 | 6190 | 2008 | 2584 | 7784 | 2634 | 3482 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-335-CL | 4.7 | 8.3 | 3076 | 1839 | 3500 | - | - | - | - | - | - | - | - | - | - | - | - | 3833 | 738 | 738 | 4594 | 1104 | 1167 |
| 0.9C-0700-385-CL | 3.7 | 6.3 | 3063 | 1829 | 3473 | - | - | - | - | - | - | 4240 | 951 | 967 | 5245 | 1373 | 1534 | 6250 | 1779 | 2100 | 7254 | 2179 | 2666 |
| 0.9C-0700-435-CL | 3.0 | 4.9 | 3053 | 1821 | 3452 | - | - | - | 5162 | 1339 | 1487 | 6445 | 1857 | 2210 | 7727 | 2366 | 2933 | 9010 | 2873 | 3656 | - | - | - |
| 0.9C-0700-485-CL | 2.5 | 4.0 | 3046 | 1817 | 3439 | 5738 | 1573 | 1812 | 7333 | 2210 | 2711 | 8928 | 2840 | 3609 | - | - | - | - | - | - | - | - | - |
| 0.9C-0720-385-CL | 4.2 | 6.9 | 3607 | 2230 | 4587 | - | - | - | - | - | - | - | - | - | 4135 | 904 | 908 | 5140 | 1331 | 1475 | 6145 | 1737 | 2041 |
| 0.9C-0720-435-CL | 3.4 | 5.4 | 3596 | 2222 | 4566 | - | - | - | 4053 | 862 | 862 | 5335 | 1410 | 1585 | 6618 | 1926 | 2308 | 7901 | 2435 | 3031 | - | - | - |
| 0.9C-0720-485-CL | 2.9 | 4.4 | 3590 | 2218 | 4553 | 4629 | 1119 | 1187 | 6224 | 1768 | 2085 | 7818 | 2402 | 2984 | - | - | - | - | - | - | - | - | - |
| 1.5C-0800-385-CL | 3.7 | 7.5 | 3922 | 2205 | 3607 | - | - | - | - | - | - | 6143 | 1214 | 1214 | 7414 | 1809 | 1930 | 8685 | 2331 | 2647 | 9955 | 2842 | 3363 |
| 1.5C-0800-435-CL | 3.0 | 5.9 | 3909 | 2195 | 3581 | - | - | - | 7309 | 1765 | 1871 | 8931 | 2431 | 2786 | 10553 | 3081 | 3700 | 12176 | 3725 | 4614 | 13798 | 4366 | 5528 |
| 1.5C-0800-485-CL | 2.5 | 4.7 | 3901 | 2189 | 3564 | 8038 | 2068 | 2282 | 10055 | 2882 | 3419 | 12071 | 3683 | 4555 | 14087 | 4480 | 5692 | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 15. Models 0.9C-0350-385-CL to 1.5C-0800-485-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|-------|------|------|------|------|------|------|------|------|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 0.9C-0350-385-CL | 2.4 | 5.5 | 1813 | 1057 | 1897 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0350-435-CL | 2.0 | 4.3 | 1803 | 1050 | 1876 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0350-485-CL | 1.7 | 3.0 | 1797 | 1045 | 1863 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-280-CL | 4.8 | 11.1 | 2173 | 1324 | 2634 | 3507 | 933 | 1054 | 4570 | 1359 | 1653 | 6696 | 2198 | 2851 | 7759 | 2616 | 3450 | - | - | - |
| 0.9C-0400-335-CL | 3.5 | 7.8 | 2162 | 1316 | 2612 | 6239 | 2019 | 2594 | 7760 | 2617 | 3451 | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-385-CL | 2.8 | 5.9 | 2149 | 1306 | 2585 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-435-CL | 2.3 | 4.6 | 2139 | 1299 | 2564 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-485-CL | 1.9 | 3.7 | 2132 | 1294 | 2551 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-335-CL | 3.8 | 8.1 | 2357 | 1464 | 3047 | 5806 | 1856 | 2367 | 7327 | 2455 | 3225 | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-385-CL | 3.0 | 6.1 | 2344 | 1455 | 3020 | 8710 | 2997 | 4004 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-435-CL | 2.4 | 4.8 | 2334 | 1448 | 2999 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-485-CL | 2.1 | 3.9 | 2328 | 1443 | 2986 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-335-CL | 4.7 | 8.3 | 3076 | 1839 | 3500 | 5355 | 1418 | 1596 | 6876 | 2028 | 2453 | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-385-CL | 3.7 | 6.3 | 3063 | 1829 | 3473 | 8259 | 2576 | 3233 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-435-CL | 3.0 | 4.9 | 3053 | 1821 | 3452 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-485-CL | 2.5 | 4.0 | 3046 | 1817 | 3439 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0720-385-CL | 4.2 | 6.9 | 3607 | 2230 | 4587 | 7150 | 2137 | 2607 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0720-435-CL | 3.4 | 5.4 | 3596 | 2222 | 4566 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0720-485-CL | 2.9 | 4.4 | 3590 | 2218 | 4553 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-0800-385-CL | 3.7 | 7.5 | 3922 | 2205 | 3607 | 11226 | 3348 | 4079 | 13767 | 4354 | 5511 | - | - | - | - | - | - | - | - | - |
| 1.5C-0800-435-CL | 3.0 | 5.9 | 3909 | 2195 | 3581 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-0800-485-CL | 2.5 | 4.7 | 3901 | 2189 | 3564 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 16. Models 1.5C-0800-535-CL to 1.5C-1300-585-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 1.5C-0800-535-CL | 2.2 | 3.9 | 3899 | 2188 | 3561 | 10658 | 3122 | 3759 | 13112 | 4095 | 5142 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-385-CL | 5.0 | 8.0 | 5705 | 3194 | 5167 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8402 | 1425 | 1425 |
| 1.5C-1100-435-CL | 4.0 | 6.3 | 5692 | 3184 | 5141 | - | - | - | - | - | - | - | - | - | 9000 | 1762 | 1762 | 10622 | 2540 | 2676 | 12244 | 3212 | 3590 |
| 1.5C-1100-485-CL | 3.4 | 5.1 | 5684 | 3178 | 5124 | - | - | - | 8501 | 1481 | 1481 | 10517 | 2496 | 2617 | 12534 | 3329 | 3754 | 14550 | 4142 | 4890 | - | - | - |
| 1.5C-1100-535-CL | 2.9 | 4.2 | 5682 | 3177 | 5121 | 9104 | 1821 | 1821 | 11558 | 2930 | 3204 | 14012 | 3926 | 4587 | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-585-CL | 2.5 | 3.0 | 5656 | 3157 | 5067 | 11937 | 3086 | 3417 | 14870 | 4270 | 5071 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-385-CL | 5.8 | 8.8 | 6617 | 3887 | 7096 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-435-CL | 4.6 | 6.9 | 6604 | 3877 | 7069 | - | - | - | - | - | - | - | - | - | - | - | - | 8701 | 1624 | 1624 | 10323 | 2432 | 2539 |
| 1.5C-1200-485-CL | 3.8 | 5.5 | 6596 | 3871 | 7053 | - | - | - | - | - | - | 8597 | 1566 | 1566 | 10613 | 2554 | 2702 | 12630 | 3385 | 3839 | 14646 | 4195 | 4975 |
| 1.5C-1200-535-CL | 3.2 | 4.5 | 6594 | 3870 | 7049 | - | - | - | 9637 | 2131 | 2152 | 12091 | 3166 | 3535 | 14544 | 4155 | 4918 | - | - | - | - | - | - |
| 1.5C-1200-585-CL | 2.8 | 3.0 | 6568 | 3850 | 6996 | 10016 | 2299 | 2365 | 12950 | 3514 | 4019 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-385-CL | 6.7 | 9.3 | 7844 | 4637 | 8596 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-435-CL | 5.4 | 7.3 | 7831 | 4628 | 8570 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8829 | 1182 | 1182 |
| 1.5C-1300-485-CL | 4.5 | 5.8 | 7823 | 4621 | 8553 | - | - | - | - | - | - | - | - | - | 9119 | 1345 | 1345 | 11135 | 2460 | 2482 | 13152 | 3320 | 3618 |
| 1.5C-1300-535-CL | 3.8 | 4.8 | 7821 | 4 20 | 8549 | - | - | - | - | - | - | 10597 | 2178 | 2178 | 13050 | 3277 | 3561 | - | - | - | - | - | - |
| 1.5C-1300-585-CL | 3.2 | 4.0 | 7795 | 4601 | 8496 | - | - | - | 11455 | 2602 | 2662 | 14389 | 3826 | 4316 | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 17. Models 1.5C-0800-535-CL to 1.5C-1300-585-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|-------|------|------|-------|------|------|-----|-----|-----|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 1.5C-0800-535-CL | 2.2 | 3.9 | 3899 | 2188 | 3561 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-385-CL | 5.0 | 8.0 | 5705 | 3194 | 5167 | 9672 | 2126 | 2141 | 12214 | 3199 | 3573 | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-435-CL | 4.0 | 6.3 | 5692 | 3184 | 5141 | 13866 | 3867 | 4505 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-485-CL | 3.4 | 5.1 | 5684 | 3178 | 5124 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-535-CL | 2.9 | 4.2 | 5682 | 3177 | 5121 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-585-CL | 2.5 | 3.0 | 5656 | 3157 | 5067 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-385-CL | 5.8 | 8.8 | 6617 | 3887 | 7096 | 7752 | 1089 | 1089 | 10293 | 2418 | 2522 | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-435-CL | 4.6 | 6.9 | 6604 | 3877 | 7069 | 11945 | 3106 | 3453 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-485-CL | 3.8 | 5.5 | 6596 | 3871 | 7053 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-535-CL | 3.2 | 4.5 | 6594 | 3870 | 7049 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-585-CL | 2.8 | 3.0 | 6568 | 3850 | 6996 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-385-CL | 6.7 | 9.3 | 7844 | 4637 | 8596 | - | - | - | 8799 | 1165 | 1165 | 13881 | 3619 | 4030 | - | - | - | - | - | - |
| 1.5C-1300-435-CL | 5.4 | 7.3 | 7831 | 4628 | 8570 | 10451 | 2096 | 2096 | 13695 | 3543 | 3925 | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-485-CL | 4.5 | 5.8 | 7823 | 4621 | 8553 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-535-CL | 3.8 | 4.8 | 7821 | 4 20 | 8549 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-585-CL | 3.2 | 4.0 | 7795 | 4601 | 8496 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 18. Models 3C-2000-385-CL to 14C-5100-785-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | BTC | RTC | ETC | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 3C-2000-385-CL | 5.2 | 9.9 | 9735 | 5856 | 11307 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11163 | 1908 | 1908 |
| 3C-2000-435-CL | 4.2 | 7.8 | 9713 | 5840 | 11264 | - | - | - | - | - | - | - | - | - | 12153 | 2466 | 2466 | 14838 | 3687 | 3980 | 17523 | 4784 | 5493 |
| 3C-2000-485-CL | 3.5 | 6.2 | 9700 | 5830 | 11236 | - | - | - | - | - | - | 14665 | 3615 | 3882 | 18003 | 4977 | 5763 | 21340 | 6311 | 7644 | 24678 | 7634 | 9526 |
| 3C-2000-535-CL | 3 | 5.1 | 9697 | 5828 | 11230 | - | - | - | 16387 | 4324 | 4853 | 20449 | 5956 | 7142 | 24510 | 7568 | 9431 | 28571 | 9170 | 11720 | - | - | - |
| 3C-2000-585-CL | 2.6 | 4.3 | 9654 | 5796 | 11142 | 17014 | 4578 | 5206 | 21870 | 6522 | 7943 | 26726 | 8443 | 10680 | - | - | - | - | - | - | - | - | - |
| 3C-2050-385-CL | 6.8 | 10.3 | 13241 | 7566 | 12902 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2050-435-CL | 5.5 | 8 | 13220 | 7550 | 12859 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15934 | 1760 | 1760 |
| 3C-2050-485-CL | 4.5 | 6.5 | 13206 | 7540 | 12831 | - | - | - | - | - | - | - | - | - | 16414 | 2031 | 2031 | 19752 | 3912 | 3912 | 23089 | 5507 | 5793 |
| 3C-2050-535-CL | 3.7 | 5.3 | 13203 | 7537 | 12825 | - | - | - | - | - | - | 18860 | 3409 | 3409 | 22921 | 5436 | 5698 | 26982 | 7118 | 7987 | 31043 | 8757 | 10276 |
| 3C-2050-585-CL | 3.1 | 4.5 | 13160 | 7505 | 12737 | - | - | - | 20281 | 4210 | 4210 | 25137 | 6362 | 6947 | 29993 | 8335 | 9684 | - | - | - | - | - | - |
| 6C-2500-485-CL | 4.1 | 9.9 | 13894 | 8477 | 16899 | - | - | - | - | - | - | - | - | - | 17299 | 3838 | 3880 | 21201 | 5487 | 6079 | 25103 | 7065 | 8279 |
| 6C-2500-535-CL | 3.5 | 8.1 | 13891 | 8474 | 16892 | - | - | - | - | - | - | 20159 | 5058 | 5492 | 24907 | 6986 | 8168 | 29655 | 8879 | 10844 | 34403 | 10758 | 13520 |
| 6C-2500-585-CL | 3 | 6.8 | 13840 | 8437 | 16789 | - | - | - | 21821 | 5740 | 6428 | 27497 | 8022 | 9628 | 33174 | 10273 | 12828 | 38851 | 12512 | 16027 | 44528 | 14745 | 19227 |
| 6C-2500-635-CL | 2.6 | 5.8 | 13785 | 8396 | 16677 | 22114 | 5859 | 6594 | 28802 | 8541 | 10364 | 35491 | 11188 | 14134 | 42180 | 13823 | 17904 | 48868 | 16450 | 21674 | 55557 | 19074 | 25444 |
| 6C-2500-685-CL | 2.3 | 8.8 | 13726 | 8352 | 16555 | 28573 | 8450 | 10234 | 36357 | 11530 | 14621 | 44140 | 14593 | 19008 | 51923 | 17649 | 23395 | 59707 | 20701 | 27783 | - | - | - |
| 6C-2500-735-CL | 2.1 | 4.3 | 13662 | 8305 | 16425 | 35522 | 11200 | 14151 | 44483 | 14727 | 19202 | 53444 | 18245 | 24253 | - | - | - | - | - | - | - | - | - |
| 6C-3800-535-CL | 4.5 | 9 | 18816 | 11838 | 25340 | - | - | - | - | - | - | - | - | - | - | - | - | 21241 | 5030 | 5269 | 25989 | 6989 | 7945 |
| 6C-3800-585-CL | 3.9 | 7.6 | 18766 | 11801 | 25237 | - | - | - | - | - | - | 19084 | 4053 | 4053 | 24761 | 6490 | 7252 | 30438 | 8776 | 10452 | 36114 | 11032 | 13652 |
| 6C-3800-635-CL | 3.4 | 6.4 | 18711 | 11761 | 25125 | - | - | - | 20389 | 4663 | 4788 | 27078 | 7429 | 8558 | 33766 | 10101 | 12328 | 40455 | 12747 | 16098 | 47144 | 15382 | 19868 |
| 6C-3800-685-CL | 3 | 9.4 | 18652 | 11717 | 25003 | - | - | - | 27943 | 7777 | 9046 | 35727 | 10878 | 13433 | 43510 | 13951 | 17820 | 51293 | 17013 | 22207 | 59077 | 20069 | 26594 |
| 6C-3800-735-CL | 2.6 | 4.8 | 18588 | 11671 | 24872 | 27108 | 7442 | 8575 | 36070 | 11014 | 13626 | 45031 | 14550 | 18677 | 53992 | 18073 | 23728 | - | - | - | - | - | - |
| 6C-3900-535-CL | 4.8 | 9.3 | 20080 | 12793 | 28172 | - | - | - | - | - | - | - | - | - | - | - | - | 18420 | 3803 | 3803 | 23168 | 5906 | 6479 |
| 6C-3900-585-CL | 4.1 | 7.8 | 20029 | 12756 | 28069 | - | - | - | - | - | - | - | - | - | 21940 | 5397 | 5787 | 27617 | 7710 | 8986 | 33293 | 9975 | 12186 |
| 6C-3900-635-CL | 3.6 | 6.5 | 19974 | 12716 | 27957 | - | - | - | - | - | - | 24257 | 6352 | 7093 | 30945 | 9041 | 10862 | 37634 | 11693 | 14632 | 44323 | 14330 | 18402 |
| 6C-3900-685-CL | 3.2 | 5.5 | 19915 | 12673 | 27836 | - | - | - | 25122 | 6704 | 7580 | 32906 | 9821 | 11967 | 40689 | 12899 | 16354 | 48473 | 15963 | 20741 | 56256 | 19020 | 25128 |
| 6C-3900-735-CL | 2.8 | 4.8 | 19851 | 12627 | 27705 | 24287 | 6364 | 7110 | 33249 | 9957 | 12161 | 42210 | 13498 | 17212 | 51171 | 17023 | 22262 | - | - | - | - | - | - |
| 14C-5100-635-CL | 3.6 | 10.3 | 22483 | 14170 | 30454 | - | - | - | - | - | - | 26614 | 6581 | 7079 | 33924 | 9554 | 11200 | 41235 | 12465 | 15320 | 48545 | 15356 | 19441 |
| 14C-5100-685-CL | 3.2 | 8.9 | 22418 | 14122 | 30321 | - | - | - | 27560 | 6973 | 7613 | 36067 | 10411 | 12407 | 44574 | 13787 | 17202 | 53081 | 17142 | 21997 | 61588 | 20487 | 26792 |
| 14C-5100-735-CL | 2.9 | 7.7 | 22348 | 14071 | 30178 | 26647 | 6595 | 7098 | 36442 | 10561 | 12619 | 46236 | 14444 | 18139 | 56030 | 18304 | 23660 | 65824 | 22152 | 29180 | 75619 | 25993 | 34700 |
| 14C-5100-785-CL | 2.6 | 6.8 | 22274 | 14017 | 30025 | 34777 | 9895 | 11680 | 45949 | 14330 | 17977 | 57121 | 18733 | 24274 | 68293 | 23121 | 30571 | 79465 | 27501 | 36868 | 90637 | 31879 | 43165 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 19. Models 3C-2000-385-CL to 14C-5100-785-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 3C-2000-385-CL | 5.2 | 9.9 | 9735 | 5856 | 11307 | 13266 | 3020 | 3094 | 17473 | 4763 | 5464 | 25885 | 8111 | 10206 | - | - | - | - | - | - |
| 3C-2000-435-CL | 4.2 | 7.8 | 9713 | 5840 | 11264 | 20208 | 5860 | 7006 | 25577 | 7989 | 10033 | - | - | - | - | - | - | - | - | - |
| 3C-2000-485-CL | 3.5 | 6.2 | 9700 | 5830 | 11236 | 28015 | 8951 | 11407 | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2000-535-CL | 3 | 5.1 | 9697 | 5828 | 11230 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2000-585-CL | 2.6 | 4.3 | 9654 | 5796 | 11142 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2050-385-CL | 6.8 | 10.3 | 13241 | 7566 | 12902 | - | - | - | 15884 | 1732 | 1732 | 24296 | 6014 | 6473 | 28503 | 7734 | 8844 | - | - | - |
| 3C-2050-435-CL | 5.5 | 8 | 13220 | 7550 | 12859 | 18619 | 3274 | 3274 | 23989 | 5885 | 6300 | - | - | - | - | - | - | - | - | - |
| 3C-2050-485-CL | 4.5 | 6.5 | 13206 | 7540 | 12831 | 26427 | 6891 | 7674 | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2050-535-CL | 3.7 | 5.3 | 13203 | 7537 | 12825 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2050-585-CL | 3.1 | 4.5 | 13160 | 7505 | 12737 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-2500-485-CL | 4.1 | 9.9 | 13894 | 8477 | 16899 | 29005 | 8622 | 10478 | 36809 | 11708 | 14876 | 52416 | 17842 | 23673 | - | - | - | - | - | - |
| 6C-2500-535-CL | 3.5 | 8.1 | 13891 | 8474 | 16892 | 39150 | 12630 | 16196 | 48646 | 16363 | 21548 | - | - | - | - | - | - | - | - | - |
| 6C-2500-585-CL | 3 | 6.8 | 13840 | 8437 | 16789 | 50205 | 16975 | 22427 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-2500-635-CL | 2.6 | 5.8 | 13785 | 8396 | 16677 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-2500-685-CL | 2.3 | 8.8 | 13726 | 8352 | 16555 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-2500-735-CL | 2.1 | 4.3 | 13662 | 8305 | 16425 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3800-535-CL | 4.5 | 9 | 18816 | 11838 | 25340 | 30737 | 8896 | 10621 | 40233 | 12659 | 15973 | 59224 | 20127 | 26677 | - | - | - | - | - | - |
| 6C-3800-585-CL | 3.9 | 7.6 | 18766 | 11801 | 25237 | 41791 | 13274 | 16851 | 53145 | 17740 | 23250 | - | - | - | - | - | - | - | - | - |
| 6C-3800-635-CL | 3.4 | 6.4 | 18711 | 11761 | 25125 | 53832 | 18010 | 23638 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3800-685-CL | 3 | 9.4 | 18652 | 11717 | 25003 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3800-735-CL | 2.6 | 4.8 | 18588 | 11671 | 24872 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3900-535-CL | 4.8 | 9.3 | 20080 | 12793 | 28172 | 27916 | 7830 | 9155 | 37412 | 11605 | 14507 | 56403 | 19078 | 25211 | - | - | - | - | - | - |
| 6C-3900-585-CL | 4.1 | 7.8 | 20029 | 12756 | 28069 | 38970 | 12221 | 15386 | 50324 | 16690 | 21785 | - | - | - | - | - | - | - | - | - |
| 6C-3900-635-CL | 3.6 | 6.5 | 19974 | 12716 | 27957 | 51011 | 16960 | 22172 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3900-685-CL | 3.2 | 5.5 | 19915 | 12673 | 27836 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3900-735-CL | 2.8 | 4.8 | 19851 | 12627 | 27705 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5100-635-CL | 3.6 | 10.3 | 22483 | 14170 | 30454 | 55856 | 18235 | 23561 | 70476 | 23977 | 31802 | 99718 | 35434 | 48284 | 114339 | 41157 | 56525 | - | - | - |
| 14C-5100-685-CL | 3.2 | 8.9 | 22418 | 14122 | 30321 | 70095 | 23827 | 31587 | 87109 | 30497 | 41177 | - | - | - | - | - | - | - | - | - |
| 14C-5100-735-CL | 2.9 | 7.7 | 22348 | 14071 | 30178 | 85413 | 29833 | 40221 | 105001 | 37502 | 51261 | - | - | - | - | - | - | - | - | - |
| 14C-5100-785-CL | 2.6 | 6.8 | 22274 | 14017 | 30025 | 101809 | 36252 | 49462 | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 20. Models 14C-5100-835-CL to 14C-8300-935-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|
| | | | BTC | RTC | ETC | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 14C-5100-835-CL | 2.3 | 6.0 | 22194 | 13959 | 29862 | 43441 | 13340 | 16564 | 56082 | 18324 | 23689 | 68722 | 23289 | 30813 | 81363 | 28245 | 37938 | 94004 | 33197 | 45063 | 106644 | 38145 | 52188 |
| 14C-5100-885-CL | 2.1 | 5.3 | 22110 | 13897 | 29689 | 52640 | 16969 | 21749 | 66840 | 22551 | 29752 | 81040 | 28118 | 37756 | 95240 | 33680 | 45759 | 109439 | 39239 | 53763 | - | - | - |
| 14C-5100-935-CL | 2.0 | 4.8 | 22020 | 13832 | 29506 | 62374 | 20796 | 27235 | 78224 | 27014 | 36169 | 94073 | 33224 | 45102 | 109923 | 39429 | 54036 | - | - | - | - | - | - |
| 14C-5400-635-CL | 4.5 | 10.8 | 29197 | 17959 | 36493 | - | - | - | - | - | - | - | - | - | - | - | - | 35220 | 7889 | 8013 | 42531 | 10973 | 12134 |
| 14C-5400-685-CL | 4.0 | 9.2 | 29132 | 17912 | 36360 | - | - | - | - | - | - | - | - | - | 38559 | 9327 | 9895 | 47066 | 12816 | 14690 | 55573 | 16225 | 19485 |
| 14C-5400-735-CL | 3.5 | 8.6 | 29062 | 17861 | 36217 | - | - | - | - | - | - | 40221 | 10021 | 10832 | 50016 | 14004 | 16353 | 59810 | 17910 | 21873 | 69604 | 21786 | 27393 |
| 14C-5400-785-CL | 3.2 | 7.0 | 28988 | 17806 | 36064 | - | - | - | 39934 | 9902 | 10671 | 51107 | 14442 | 16968 | 62279 | 18889 | 23265 | 73451 | 23304 | 29562 | 84623 | 27703 | 35859 |
| 14C-5400-835-CL | 2.9 | 6.2 | 28908 | 17748 | 35901 | 37427 | 8847 | 9257 | 50067 | 14024 | 16382 | 62708 | 19059 | 23507 | 75348 | 24052 | 30631 | 87989 | 29026 | 37756 | 100630 | 33992 | 44881 |
| 14C-5400-885-CL | 2.6 | 5.5 | 28824 | 17686 | 35728 | 46626 | 12639 | 14442 | 60826 | 18313 | 22446 | 75025 | 23924 | 30449 | 89225 | 29512 | 38453 | 103425 | 35088 | 46456 | 117625 | 40655 | 54460 |
| 14C-5400-935-CL | 2.4 | 5.0 | 28734 | 17620 | 35545 | 56360 | 16538 | 19928 | 72209 | 22815 | 28862 | 88059 | 29053 | 37795 | 103909 | 35277 | 46729 | 119758 | 41492 | 55662 | - | - | - |
| 14C-8300-735-CL | 4.4 | 8.4 | 37471 | 23145 | 47494 | - | - | - | - | - | - | - | - | - | 38785 | 7003 | 7003 | 48579 | 11784 | 12524 | 58373 | 15804 | 18044 |
| 14C-8300-785-CL | 3.9 | 7.5 | 37396 | 23091 | 47341 | - | - | - | - | - | - | 39876 | 7618 | 7618 | 51048 | 12812 | 13915 | 62220 | 17353 | 20212 | 73392 | 21814 | 26509 |
| 14C-8300-835-CL | 3.5 | 6.7 | 37317 | 23032 | 47178 | - | - | - | - | - | - | 51477 | 12990 | 14157 | 64118 | 18116 | 21282 | 76758 | 23149 | 28407 | 89399 | 28149 | 35531 |
| 14C-8300-885-CL | 3.2 | 5.9 | 37232 | 22971 | 47005 | - | - | - | 49595 | 12209 | 13096 | 63795 | 17986 | 21100 | 77994 | 23639 | 29103 | 92194 | 29252 | 37107 | 106394 | 34843 | 45110 |
| 14C-8300-935-CL | 2.9 | 5.3 | 37143 | 22905 | 46822 | 45129 | 10310 | 10579 | 60979 | 16855 | 19512 | 76828 | 23177 | 28446 | 92678 | 29442 | 37379 | 108527 | 35681 | 46313 | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 21. Models 14C-5100-835-CL to 14C-8300-935-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 14C-5100-835-CL | 2.3 | 6.0 | 22194 | 13959 | 29862 | 119285 | 43094 | 59312 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5100-885-CL | 2.1 | 5.3 | 22110 | 13897 | 29689 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5100-935-CL | 2.0 | 4.8 | 22020 | 13832 | 29506 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5400-635-CL | 4.5 | 10.8 | 29197 | 17959 | 36493 | 49841 | 13933 | 16254 | 64462 | 19754 | 24495 | 93704 | 31271 | 40977 | 108325 | 37009 | 49218 | - | - | - |
| 14C-5400-685-CL | 4.0 | 9.2 | 29132 | 17912 | 36360 | 64080 | 19603 | 24280 | 81094 | 26315 | 33870 | 115122 | 39674 | 53049 | - | - | - | - | - | - |
| 14C-5400-735-CL | 3.5 | 8.6 | 29062 | 17861 | 36217 | 79398 | 25647 | 32914 | 98987 | 33346 | 43955 | - | - | - | - | - | - | - | - | - |
| 14C-5400-785-CL | 3.2 | 7.0 | 28988 | 17806 | 36064 | 95795 | 32093 | 42156 | 118139 | 40857 | 54750 | - | - | - | - | - | - | - | - | - |
| 14C-5400-835-CL | 2.9 | 6.2 | 28908 | 17748 | 35901 | 113270 | 38948 | 52005 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5400-885-CL | 2.6 | 5.5 | 28824 | 17686 | 35728 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5400-935-CL | 2.4 | 5.0 | 28734 | 17620 | 35545 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-8300-735-CL | 4.4 | 8.4 | 37471 | 23145 | 47494 | 68167 | 19734 | 23564 | 87756 | 27500 | 34605 | - | - | - | - | - | - | - | - | - |
| 14C-8300-785-CL | 3.9 | 7.5 | 37396 | 23091 | 47341 | 84564 | 26239 | 32806 | 106908 | 35045 | 45400 | - | - | - | - | - | - | - | - | - |
| 14C-8300-835-CL | 3.5 | 6.7 | 37317 | 23032 | 47178 | 102040 | 33129 | 42656 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-8300-885-CL | 3.2 | 5.9 | 37232 | 22971 | 47005 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-8300-935-CL | 2.9 | 5.3 | 37143 | 22905 | 46822 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 22. Models 18C-9600-835-CL to 18C-11000-1100-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|-------|--------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|
| | | | BTC | RTC | ETC | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 18C-9600-835-CL | 4.7 | 8.0 | 60605 | 35385 | 63670 | - | - | - | - | - | - | - | - | - | - | - | - | 78895 | 13761 | 13761 | 93431 | 21378 | 21955 |
| 18C-9600-935-CL | 3.8 | 6.7 | 60405 | 35236 | 63260 | - | - | - | - | - | - | 78975 | 13806 | 13806 | 97202 | 23001 | 24080 | 115429 | 30548 | 34353 | 133656 | 37896 | 44627 |
| 18C-9600-1000-CL | 3.4 | 5.9 | 60263 | 35130 | 62969 | - | - | - | 78842 | 13732 | 13732 | 99691 | 24055 | 25483 | 120541 | 32621 | 37234 | 141390 | 40988 | 48986 | 162240 | 49271 | 60737 |
| 18C-9600-1100-CL | 2.9 | 4.9 | 60026 | 34953 | 62483 | 83825 | 16540 | 16540 | 109053 | 27943 | 30759 | 134281 | 38146 | 44979 | 159508 | 48188 | 59198 | - | - | - | - | - | - |
| 18C-9600-1200-CL | 2.6 | 4.1 | 59766 | 34760 | 61951 | 112118 | 29198 | 32487 | 142141 | 41287 | 49409 | 172164 | 53199 | 66331 | - | - | - | - | - | - | - | - | - |
| 18C-9600-1300-CL | 2.3 | 3.5 | 59484 | 34549 | 61373 | 142870 | 41577 | 49820 | 178106 | 55546 | 69680 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-835-CL | 5.8 | 9.0 | 76919 | 44620 | 79020 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-935-CL | 4.7 | 7.1 | 76719 | 44471 | 78611 | - | - | - | - | - | - | - | - | - | - | - | - | 100141 | 16563 | 16563 | 118368 | 26452 | 26837 |
| 18C-9800-1000-CL | 4.2 | 6.2 | 76577 | 44366 | 78320 | - | - | - | - | - | - | - | - | - | 105253 | 19444 | 19444 | 126102 | 29813 | 31196 | 146951 | 38469 | 42947 |
| 18C-9800-1100-CL | 3.6 | 5.2 | 76339 | 44189 | 77834 | - | - | - | - | - | - | 118992 | 26730 | 27189 | 144220 | 37352 | 41408 | 169448 | 47559 | 55627 | - | - | - |
| 18C-9800-1200-CL | 3.1 | 4.3 | 76079 | 43995 | 77302 | - | - | - | 126853 | 30133 | 31619 | 156876 | 42497 | 48541 | - | - | - | - | - | - | - | - | - |
| 18C-9800-1300-CL | 2.7 | 3.0 | 75797 | 43784 | 76723 | 127582 | 30443 | 32030 | 162818 | 44896 | 51890 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-10500-935-CL | 5.2 | 7.3 | 86028 | 49417 | 85409 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 111597 | 16790 | 16790 |
| 18C-10500-1000-CL | 4.6 | 6.4 | 85886 | 49311 | 85118 | - | - | - | - | - | - | - | - | - | - | - | - | 119331 | 21149 | 21149 | 140180 | 32049 | 32900 |
| 18C-10500-1100-CL | 3.9 | 5.3 | 85648 | 49133 | 84632 | - | - | - | - | - | - | 112221 | 17142 | 17142 | 137449 | 30847 | 31361 | 162677 | 41515 | 45580 | - | - | - |
| 18C-10500-1200-CL | 3.4 | 4.4 | 85388 | 48939 | 84100 | - | - | - | 120081 | 21572 | 21572 | 150105 | 36292 | 38494 | - | - | - | - | - | - | - | - | - |
| 18C-10500-1300-CL | 3.0 | 3.0 | 85106 | 48727 | 83522 | - | - | - | 156047 | 38776 | 41843 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-11000-935-CL | 6.8 | 7.9 | 96334 | 57101 | 106518 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-11000-1000-CL | 5.3 | 6.9 | 96192 | 56996 | 106227 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 119158 | 21051 | 21051 |
| 18C-11000-1100-CL | 4.3 | 5.7 | 95954 | 56820 | 105741 | - | - | - | - | - | - | - | - | - | 116427 | 19512 | 19512 | 141654 | 32690 | 33731 | 166882 | 43241 | 47951 |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 23. Models 18C-9600-835-CL to 18C-11000-1100-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|-------|-------|--------|----------------------------------|-------|-------|--------|-------|-------|--------|-------|-------|-----|-----|-----|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 18C-9600-835-CL | 4.7 | 8.0 | 60605 | 35385 | 63670 | 107968 | 27497 | 30148 | 137042 | 39250 | 46535 | - | - | - | - | - | - | - | - | - |
| 18C-9600-935-CL | 3.8 | 6.7 | 60405 | 35236 | 63260 | 151883 | 45164 | 54900 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9600-1000-CL | 3.4 | 5.9 | 60263 | 35130 | 62969 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9600-1100-CL | 2.9 | 4.9 | 60026 | 34953 | 62483 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9600-1200-CL | 2.6 | 4.1 | 59766 | 34760 | 61951 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9600-1300-CL | 2.3 | 3.5 | 59484 | 34549 | 61373 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-835-CL | 5.8 | 9.0 | 76919 | 44620 | 79020 | 92680 | 12358 | 12358 | 121753 | 27943 | 28745 | 179900 | 51742 | 61519 | - | - | - | - | - | - |
| 18C-9800-935-CL | 4.7 | 7.1 | 76719 | 44471 | 78611 | 136595 | 34214 | 37110 | 173049 | 49004 | 57657 | - | - | - | - | - | - | - | - | - |
| 18C-9800-1000-CL | 4.2 | 6.2 | 76577 | 44366 | 78320 | 167801 | 46898 | 54699 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-1100-CL | 3.6 | 5.2 | 76339 | 44189 | 77834 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-1200-CL | 3.1 | 4.3 | 76079 | 43995 | 77302 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-1300-CL | 2.7 | 3.0 | 75797 | 43784 | 76723 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-10500-935-CL | 5.2 | 7.3 | 86028 | 49417 | 85409 | 129824 | 27063 | 27063 | 166278 | 42994 | 47610 | - | - | - | - | - | - | - | - | - |
| 18C-10500-1000-CL | 4.6 | 6.4 | 85886 | 49311 | 85118 | 161030 | 40837 | 44652 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-10500-1100-CL | 3.9 | 5.3 | 85648 | 49133 | 84632 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-10500-1200-CL | 3.4 | 4.4 | 85388 | 48939 | 84100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-10500-1300-CL | 3.0 | 3.0 | 85106 | 48727 | 83522 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-11000-935-CL | 6.8 | 7.9 | 96334 | 57101 | 106518 | - | - | - | 145256 | 34239 | 35761 | - | - | - | - | - | - | - | - | - |
| 18C-11000-1000-CL | 5.3 | 6.9 | 96192 | 56996 | 106227 | 140007 | 31973 | 32803 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-11000-1100-CL | 4.3 | 5.7 | 95954 | 56820 | 105741 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 24. Models 18C-11000-1200-CL to 50C-18600-1200-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|--------|--------|--------|-------|-------|--------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | | | | |
| | | | BTC | RTC | ETC | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 18C-11000-1200-CL | 3.1 | 4.8 | 95694 | 56627 | 105209 | - | - | - | 99059 | 9723 | 9723 | 129082 | 26645 | 26645 | 159105 | 40044 | 43567 | - | - | - | - | - | - |
| 18C-11000-1300-CL | 2.7 | 4.1 | 95412 | 56417 | 104630 | 99789 | 10134 | 10134 | 135024 | 29758 | 29994 | 170260 | 44622 | 49854 | - | - | - | - | - | - | - | - | - |
| 32C-9900-1100-CL | 3.6 | 6.8 | 90694 | 49995 | 77548 | - | - | - | - | - | - | 153452 | 31534 | 31534 | 183067 | 44999 | 48226 | 212682 | 57149 | 64918 | 242298 | 69059 | 81611 |
| 32C-9900-1200-CL | 3.1 | 5.7 | 90389 | 49763 | 76923 | - | - | - | 162679 | 36256 | 36735 | 197924 | 51138 | 56600 | 233168 | 65403 | 76465 | 268413 | 79471 | 96330 | 303657 | 93447 | 116195 |
| 32C-9900-1300-CL | 2.7 | 4.8 | 90058 | 49512 | 76244 | 163536 | 36639 | 37218 | 204899 | 53987 | 60532 | 246263 | 70644 | 83846 | 287626 | 87096 | 107159 | - | - | - | - | - | - |
| 32C-12000-1100-CL | 4.2 | 7.2 | 110652 | 62550 | 103744 | - | - | - | - | - | - | - | - | - | 156978 | 26066 | 26066 | 186593 | 41996 | 42758 | 216208 | 54554 | 59450 |
| 32C-12000-1200-CL | 3.6 | 6.1 | 110347 | 62321 | 103119 | - | - | - | - | - | - | 171835 | 34439 | 34439 | 207079 | 50760 | 54304 | 242324 | 65221 | 74170 | 277568 | 79387 | 94035 |
| 32C-12000-1300-CL | 3.2 | 5.2 | 110015 | 62071 | 102440 | - | - | - | 178810 | 38371 | 38371 | 220173 | 56186 | 61685 | 261537 | 72964 | 84999 | 302900 | 89486 | 108313 | - | - | - |
| 32C-15000-1100-CL | 4.8 | 7.7 | 128688 | 74397 | 130631 | - | - | - | - | - | - | - | - | - | - | - | - | 159816 | 22559 | 22559 | 189431 | 39251 | 39251 |
| 32C-15000-1200-CL | 4.2 | 6.4 | 128383 | 74170 | 130006 | - | - | - | - | - | - | - | - | - | 180302 | 34106 | 34106 | 215546 | 51347 | 53971 | 250791 | 65944 | 73836 |
| 32C-15000-1300-CL | 3.6 | 5.5 | 128051 | 73921 | 129327 | - | - | - | - | - | - | 193396 | 41486 | 41486 | 234760 | 59372 | 64800 | 276123 | 76198 | 88114 | 317486 | 92750 | 111428 |
| 50C-15400-1100-CL | 4.7 | 8.7 | 139773 | 77502 | 122151 | - | - | - | - | - | - | - | - | - | - | - | - | 200474 | 29638 | 29638 | 233380 | 48185 | 48185 |
| 50C-15400-1200-CL | 4.0 | 7.3 | 139434 | 77246 | 121457 | - | - | - | - | - | - | - | - | - | 223236 | 42467 | 42467 | 262397 | 61814 | 64540 | 301557 | 78118 | 86612 |
| 50C-15400-1300-CL | 3.5 | 6.3 | 139066 | 76969 | 120702 | - | - | - | - | - | - | 237785 | 50668 | 50668 | 283744 | 70781 | 76572 | 329704 | 89556 | 102476 | 375663 | 108006 | 128381 |
| 50C-15400-1450-CL | 2.9 | 5.2 | 138458 | 76510 | 119457 | 212052 | 36164 | 36164 | 269229 | 64712 | 68391 | 326406 | 88224 | 100618 | 383584 | 111172 | 132845 | 440761 | 133887 | 165072 | - | - | - |
| 50C-15600-1100-CL | 4.9 | 8.9 | 146068 | 82248 | 135045 | - | - | - | - | - | - | - | - | - | - | - | - | 187633 | 22400 | 22400 | 220538 | 40947 | 40947 |
| 50C-15600-1200-CL | 4.2 | 7.5 | 145729 | 81993 | 134350 | - | - | - | - | - | - | - | - | - | 210395 | 35229 | 35229 | 249555 | 56242 | 57302 | 288716 | 72842 | 79374 |
| 50C-15600-1300-CL | 3.7 | 6.4 | 145361 | 81715 | 133596 | - | - | - | - | - | - | 224944 | 43430 | 43430 | 270903 | 65417 | 69334 | 316863 | 84356 | 95239 | 362822 | 102873 | 121143 |
| 50C-15600-1450-CL | 3.1 | 5.0 | 144753 | 81257 | 132351 | - | - | - | 256388 | 59230 | 61153 | 313565 | 83016 | 93380 | 370742 | 106039 | 125607 | 427920 | 128797 | 157834 | - | - | - |
| 50C-17300-1100-CL | 5.5 | 12.0 | 166473 | 95867 | 166715 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-17300-1200-CL | 4.7 | 11.7 | 166134 | 95613 | 166021 | - | - | - | - | - | - | - | - | - | - | - | - | 218014 | 34383 | 34383 | 257175 | 56208 | 56455 |
| 50C-17300-1300-CL | 4.1 | 10.0 | 165766 | 95337 | 165266 | - | - | - | - | - | - | - | - | - | 239362 | 46415 | 46415 | 285321 | 68487 | 72320 | 331280 | 87477 | 98224 |
| 50C-17300-1450-CL | 3.4 | 8.0 | 165158 | 94881 | 164021 | - | - | - | 224847 | 38234 | 38234 | 282024 | 67090 | 70461 | 339201 | 90694 | 102688 | 396378 | 113687 | 134916 | - | - | - |
| 50C-18600-1100-CL | 6.9 | 10.0 | 213075 | 119749 | 195644 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-18600-1200-CL | 5.9 | 12.0 | 212736 | 119494 | 194950 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 25. Models 18C-11000-1200-CL to 50C-18600-1200-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 18C-11000-1200-CL | 3.1 | 4.8 | 95694 | 56627 | 105209 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-11000-1300-CL | 2.7 | 4.1 | 95412 | 56417 | 104630 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-9900-1100-CL | 3.6 | 6.8 | 90694 | 49995 | 77548 | 271913 | 80864 | 98303 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-9900-1200-CL | 3.1 | 5.7 | 90389 | 49763 | 76923 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-9900-1300-CL | 2.7 | 4.8 | 90058 | 49512 | 76244 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-12000-1100-CL | 4.2 | 7.2 | 110652 | 62550 | 103744 | 245824 | 66634 | 76142 | 305054 | 90343 | 109527 | - | - | - | - | - | - | - | - | - |
| 32C-12000-1200-CL | 3.6 | 6.1 | 110347 | 62321 | 103119 | 312813 | 93428 | 113900 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-12000-1300-CL | 3.2 | 5.2 | 110015 | 62071 | 102440 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-15000-1100-CL | 4.8 | 7.7 | 128688 | 74397 | 130631 | 219046 | 52825 | 55944 | 278277 | 77063 | 89328 | - | - | - | - | - | - | - | - | - |
| 32C-15000-1200-CL | 4.2 | 6.4 | 128383 | 74170 | 130006 | 286035 | 80179 | 93701 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-15000-1300-CL | 3.6 | 5.5 | 128051 | 73921 | 129327 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-15400-1100-CL | 4.7 | 8.7 | 139773 | 77502 | 122151 | 266285 | 63467 | 66731 | 332097 | 90523 | 103825 | - | - | - | - | - | - | - | - | - |
| 50C-15400-1200-CL | 4.0 | 7.3 | 139434 | 77246 | 121457 | 340718 | 94001 | 108684 | 419039 | 125277 | 152829 | - | - | - | - | - | - | - | - | - |
| 50C-15400-1300-CL | 3.5 | 6.3 | 139066 | 76969 | 120702 | 421622 | 126301 | 154285 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-15400-1450-CL | 2.9 | 5.2 | 138458 | 76510 | 119457 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-15600-1100-CL | 4.9 | 8.9 | 146068 | 82248 | 135045 | 253444 | 57951 | 59494 | 319256 | 85328 | 96587 | - | - | - | - | - | - | - | - | - |
| 50C-15600-1200-CL | 4.2 | 7.5 | 145729 | 81993 | 134350 | 327876 | 88818 | 101446 | 406198 | 120172 | 145591 | - | - | - | - | - | - | - | - | - |
| 50C-15600-1300-CL | 3.7 | 6.4 | 145361 | 81715 | 133596 | 408781 | 121200 | 147047 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-15600-1450-CL | 3.1 | 5.0 | 144753 | 81257 | 132351 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-17300-1100-CL | 5.5 | 12.0 | 166473 | 95867 | 166715 | 221903 | 36575 | 36575 | 287714 | 69495 | 73669 | 419337 | 122843 | 147856 | - | - | - | - | - | - |
| 50C-17300-1200-CL | 4.7 | 11.7 | 166134 | 95613 | 166021 | 296335 | 73107 | 78528 | 374656 | 104990 | 122672 | - | - | - | - | - | - | - | - | - |
| 50C-17300-1300-CL | 4.1 | 10.0 | 165766 | 95337 | 165266 | 377240 | 106028 | 124129 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-17300-1450-CL | 3.4 | 8.0 | 165158 | 94881 | 164021 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-18600-1100-CL | 6.9 | 10.0 | 213075 | 119749 | 195644 | - | - | - | 258902 | 23646 | 23646 | 390526 | 93059 | 97834 | - | - | - | - | - | - |
| 50C-18600-1200-CL | 5.9 | 12.0 | 212736 | 119494 | 194950 | 267523 | 28505 | 28505 | 345844 | 72650 | 72650 | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 26. Models 50C-18600-1300-CL to 80C-19700-1800-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|--------|--------|----------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 50C-18600-1300-CL | 5.1 | 10.3 | 212367 | 119216 | 194195 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 302469 | 48201 | 48201 |
| 50C-18600-1450-CL | 4.2 | 8.3 | 211759 | 118758 | 192950 | - | - | - | - | - | - | - | - | - | 310389 | 52666 | 52666 | 367566 | 83159 | 84893 | 424743 | 107354 | 117120 |
| 65C-18400-1600-CL | 3.5 | 7.0 | 199517 | 113495 | 191350 | - | - | - | - | - | - | 324605 | 71874 | 72601 | 390743 | 99938 | 109879 | 456881 | 126779 | 147156 | 523019 | 153227 | 184434 |
| 65C-18400-1700-CL | 3.2 | 6.0 | 199055 | 113148 | 190404 | - | - | - | 317294 | 68480 | 68480 | 391957 | 100437 | 110563 | 466621 | 130691 | 152646 | 541284 | 160495 | 194729 | 615948 | 190089 | 236812 |
| 65C-18400-1800-CL | 2.9 | 5.0 | 198565 | 112781 | 189400 | 295980 | 56467 | 56467 | 379686 | 95379 | 103646 | 463391 | 129394 | 150826 | 547097 | 162809 | 198006 | 630803 | 195957 | 245185 | - | - | - |
| 65C-19400-1600-CL | 4.2 | 7.0 | 245784 | 142000 | 248919 | - | - | - | - | - | - | - | - | - | 333408 | 58672 | 58672 | 399546 | 92707 | 95950 | 465684 | 120351 | 133228 |
| 65C-19400-1700-CL | 3.8 | 6.0 | 245322 | 141654 | 247973 | - | - | - | - | - | - | 334622 | 59357 | 59357 | 409286 | 96877 | 101440 | 483949 | 127807 | 143523 | 558613 | 157927 | 185606 |
| 65C-19400-1800-CL | 3.5 | 6.0 | 244832 | 141287 | 246970 | - | - | - | - | - | - | 406056 | 95502 | 99620 | 489762 | 130168 | 146799 | 573468 | 163865 | 193979 | - | - | - |
| 80C-18700-1800-CL | 2.9 | 5.0 | 245102 | 128843 | 174296 | 421546 | 71161 | 71161 | 524343 | 123601 | 129101 | 627139 | 166183 | 187041 | 729936 | 207602 | 244981 | - | - | - | - | - | - |
| 80C-19700-1800-CL | 3.4 | 5.0 | 298876 | 159970 | 228340 | - | - | - | 470518 | 70274 | 70274 | 573314 | 126934 | 128214 | 676111 | 170732 | 186154 | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 27. Models 50C-18600-1300-CL to 80C-19700-1800-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 50C-18600-1300-CL | 5.1 | 10.3 | 212367 | 119216 | 194195 | 348428 | 74106 | 74106 | 440347 | 113767 | 125915 | - | - | - | - | - | - | - | - | - |
| 50C-18600-1450-CL | 4.2 | 8.3 | 211759 | 118758 | 192950 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 65C-18400-1600-CL | 3.5 | 7.0 | 199517 | 113495 | 191350 | 589157 | 179485 | 221712 | - | - | - | - | - | - | - | - | - | - | - | - |
| 65C-18400-1700-CL | 3.2 | 6.0 | 199055 | 113148 | 190404 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 65C-18400-1800-CL | 2.9 | 5.0 | 198565 | 112781 | 189400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 65C-19400-1600-CL | 4.2 | 7.0 | 245784 | 142000 | 248919 | 531822 | 147168 | 170506 | - | - | - | - | - | - | - | - | - | - | - | - |
| 65C-19400-1700-CL | 3.8 | 6.0 | 245322 | 141654 | 247973 | 633276 | 187705 | 227689 | - | - | - | - | - | - | - | - | - | - | - | - |
| 65C-19400-1800-CL | 3.5 | 6.0 | 244832 | 141287 | 246970 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80C-18700-1800-CL | 2.9 | 5.0 | 245102 | 128843 | 174296 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80C-19700-1800-CL | 3.4 | 5.0 | 298876 | 159970 | 228340 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Canted Yoke Design, Spring to Open

Table 28. Models 0.3C-008A-100-OP to 0.9C-0350-435-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|-----|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.3C-008A-100-OP | 4.5 | 12.0 | 368 | 89 | 94 | - | - | - | - | - | - | - | - | - | - | - | - | 176 | 95 | 138 | 208 | 119 | 203 |
| 0.3C-008A-135-OP | 2.7 | 12.0 | 355 | 83 | 87 | 199 | 112 | 185 | 257 | 155 | 303 | 315 | 197 | 422 | 372 | 240 | 540 | 430 | 282 | 659 | 488 | 324 | 777 |
| 0.3C-008B-100-OP | 6.3 | 12.0 | 565 | 94 | 94 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3C-008B-135-OP | 3.8 | 12.0 | 553 | 87 | 87 | - | - | - | - | - | - | 303 | 152 | 180 | 361 | 197 | 298 | 419 | 241 | 417 | 477 | 284 | 536 |
| 0.3C-008C-100-OP | 6.3 | 12.0 | 682 | 122 | 122 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3C-008C-135-OP | 4.4 | 12.0 | 669 | 114 | 114 | - | - | - | - | - | - | - | - | - | 328 | 156 | 156 | 386 | 203 | 274 | 444 | 247 | 393 |
| 0.3C-008C-175-OP | 2.8 | 10.0 | 653 | 106 | 106 | 382 | 200 | 267 | 480 | 274 | 466 | 577 | 346 | 666 | 674 | 418 | 865 | 771 | 489 | 1064 | 869 | 560 | 1263 |
| 0.3C-0100-135-OP | 6.5 | 12.0 | 1089 | 243 | 246 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3C-0100-175-OP | 4.1 | 11.1 | 1073 | 236 | 238 | - | - | - | - | - | - | - | - | - | 523 | 271 | 350 | 621 | 345 | 549 | 718 | 418 | 748 |
| 0.3C-0100-235-OP | 2.6 | 6.2 | 1049 | 224 | 224 | 687 | 395 | 686 | 863 | 526 | 1045 | 1038 | 654 | 1405 | 1214 | 782 | 1764 | 1389 | 909 | 2123 | 1565 | 1036 | 2483 |
| 0.3C-0150-175-OP | 5.0 | 12.0 | 1358 | 356 | 398 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 547 | 289 | 399 |
| 0.3C-0150-235-OP | 3.0 | 6.7 | 1335 | 346 | 385 | - | - | - | 692 | 399 | 696 | 868 | 529 | 1055 | 1043 | 657 | 1414 | 1218 | 785 | 1774 | 1394 | 912 | 2133 |
| 0.9C-0200-235-OP | 3.3 | 12.0 | 1722 | 433 | 471 | - | - | - | 766 | 410 | 585 | 969 | 563 | 1001 | 1171 | 713 | 1416 | 1374 | 862 | 1832 | 1577 | 1009 | 2247 |
| 0.9C-0200-280-OP | 2.5 | 9.6 | 1695 | 422 | 456 | 1059 | 630 | 1186 | 1347 | 842 | 1776 | 1635 | 1051 | 2365 | 1923 | 1261 | 2955 | 2211 | 1469 | 3545 | 2499 | 1678 | 4135 |
| 0.9C-0200-335-OP | 1.9 | 6.7 | 1675 | 413 | 444 | 1794 | 1167 | 2690 | 2206 | 1466 | 3535 | 2618 | 1764 | 4379 | 3030 | 2062 | 5223 | 3442 | 2360 | 6068 | 3855 | 2658 | 6912 |
| 0.9C-0250-235-OP | 3.8 | 12.0 | 2079 | 578 | 672 | - | - | - | - | - | - | 754 | 401 | 562 | 957 | 554 | 978 | 1160 | 705 | 1393 | 1363 | 853 | 1808 |
| 0.9C-0250-280-OP | 2.9 | 9.9 | 2052 | 567 | 657 | 845 | 470 | 747 | 1133 | 685 | 1337 | 1421 | 896 | 1927 | 1709 | 1105 | 2517 | 1997 | 1314 | 3106 | 2285 | 1523 | 3696 |
| 0.9C-0250-335-OP | 2.2 | 6.9 | 2032 | 559 | 646 | 1579 | 1011 | 2252 | 1992 | 1310 | 3096 | 2404 | 1609 | 3940 | 2816 | 1908 | 4785 | 3228 | 2206 | 5629 | 3641 | 2504 | 6473 |
| 0.9C-0350-280-OP | 4.2 | 11.2 | 3284 | 842 | 928 | - | - | - | - | - | - | - | - | - | 1378 | 729 | 1006 | 1666 | 947 | 1596 | 1954 | 1162 | 2185 |
| 0.9C-0350-335-OP | 3.1 | 7.8 | 3264 | 834 | 917 | - | - | - | 1661 | 943 | 1585 | 2073 | 1250 | 2430 | 2485 | 1553 | 3274 | 2897 | 1853 | 4118 | 3310 | 2153 | 4962 |
| 0.9C-0350-385-OP | 2.5 | 5.9 | 3240 | 824 | 903 | 2029 | 1218 | 2340 | 2573 | 1617 | 3455 | 3118 | 2014 | 4570 | 3662 | 2409 | 5685 | 4207 | 2803 | 6800 | 4751 | 3198 | 7915 |
| 0.9C-0350-435-OP | 2.0 | 4.6 | 3221 | 817 | 893 | 2922 | 1871 | 4169 | 3617 | 2376 | 5593 | 4313 | 2880 | 7017 | 5008 | 3383 | 8440 | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 29. Models 0.3C-008A-100-OP to 0.9C-0350-435-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|-----|-----|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.3C-008A-100-OP | 4.5 | 12.0 | 368 | 89 | 94 | 239 | 142 | 268 | 303 | 189 | 398 | 430 | 281 | 658 | 494 | 328 | 788 | 621 | 420 | 1049 |
| 0.3C-008A-135-OP | 2.7 | 12.0 | 355 | 83 | 87 | 546 | 366 | 896 | 662 | 449 | 1133 | 894 | 617 | 1608 | 1009 | 700 | 1845 | 1241 | 868 | 2319 |
| 0.3C-008B-100-OP | 6.3 | 12.0 | 565 | 94 | 94 | - | - | - | 291 | 143 | 156 | 419 | 240 | 416 | 482 | 288 | 547 | 609 | 381 | 807 |
| 0.3C-008B-135-OP | 3.8 | 12.0 | 553 | 87 | 87 | 535 | 327 | 654 | 650 | 411 | 891 | 882 | 579 | 1366 | 998 | 663 | 1603 | 1229 | 831 | 2077 |
| 0.3C-008C-100-OP | 6.3 | 12.0 | 682 | 122 | 122 | - | - | - | 259 | 14 | 14 | 386 | 202 | 274 | 449 | 251 | 404 | 576 | 346 | 664 |
| 0.3C-008C-135-OP | 4.4 | 12.0 | 669 | 114 | 114 | 502 | 290 | 512 | 617 | 376 | 749 | 849 | 545 | 1223 | 965 | 629 | 1460 | 1196 | 797 | 1934 |
| 0.3C-008C-175-OP | 2.8 | 10.0 | 653 | 106 | 106 | 966 | 630 | 1463 | 1161 | 771 | 1861 | 1550 | 1053 | 2658 | - | - | - | - | - | - |
| 0.3C-0100-135-OP | 6.5 | 12.0 | 1089 | 243 | 246 | - | - | - | 467 | 226 | 234 | 698 | 403 | 708 | 814 | 489 | 945 | 1046 | 659 | 1420 |
| 0.3C-0100-175-OP | 4.1 | 11.1 | 1073 | 236 | 238 | 815 | 490 | 948 | 1010 | 633 | 1346 | 1399 | 916 | 2143 | 1593 | 1057 | 2542 | - | - | - |
| 0.3C-0100-235-OP | 2.6 | 6.2 | 1049 | 224 | 224 | 1740 | 1163 | 2842 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3C-0150-175-OP | 5.0 | 12.0 | 1358 | 356 | 398 | 644 | 363 | 598 | 839 | 508 | 996 | 1228 | 792 | 1793 | 1423 | 933 | 2192 | 1812 | 1215 | 2989 |
| 0.3C-0150-235-OP | 3.0 | 6.7 | 1335 | 346 | 385 | 1569 | 1040 | 2492 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0200-235-OP | 3.3 | 12.0 | 1722 | 433 | 471 | 1780 | 1157 | 2662 | 2186 | 1451 | 3493 | 2997 | 2038 | 5155 | 3403 | 2332 | 5986 | 4214 | 2918 | 7648 |
| 0.9C-0200-280-OP | 2.5 | 9.6 | 1695 | 422 | 456 | 2787 | 1886 | 4725 | 3363 | 2303 | 5904 | 4515 | 3135 | 8264 | - | - | - | - | - | - |
| 0.9C-0200-335-OP | 1.9 | 6.7 | 1675 | 413 | 444 | 4267 | 2956 | 7756 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0250-235-OP | 3.8 | 12.0 | 2079 | 578 | 672 | 1566 | 1001 | 2224 | 1972 | 1296 | 3055 | 2783 | 1884 | 4717 | 3189 | 2177 | 5548 | 4000 | 2764 | 7210 |
| 0.9C-0250-280-OP | 2.9 | 9.9 | 2052 | 567 | 657 | 2573 | 1731 | 4286 | 3149 | 2148 | 5466 | 4301 | 2981 | 7825 | 4877 | 3397 | 9005 | - | - | - |
| 0.9C-0250-335-OP | 2.2 | 6.9 | 2032 | 559 | 646 | 4053 | 2802 | 7318 | 4877 | 3397 | 9006 | - | - | - | - | - | - | - | - | - |
| 0.9C-0350-280-OP | 4.2 | 11.2 | 3284 | 842 | 928 | 2242 | 1375 | 2775 | 2818 | 1795 | 3955 | 3970 | 2632 | 6314 | 4546 | 3049 | 7494 | - | - | - |
| 0.9C-0350-335-OP | 3.1 | 7.8 | 3264 | 834 | 917 | 3722 | 2452 | 5807 | 4546 | 3049 | 7495 | - | - | - | - | - | - | - | - | - |
| 0.9C-0350-385-OP | 2.5 | 5.9 | 3240 | 824 | 903 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0350-435-OP | 2.0 | 4.6 | 3221 | 817 | 893 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 30. Models 0.9C-0350-485-OP to 1.5C-1300-585-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|-------|------|------|----------------------------------|------|------|------|------|-------|------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.9C-0350-485-OP | 1.7 | 3.5 | 3210 | 812 | 886 | 3930 | 2603 | 6233 | 4794 | 3229 | 8002 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-280-OP | 4.8 | 11.9 | 3904 | 1093 | 1278 | - | - | - | - | - | - | - | - | - | - | - | - | 1295 | 664 | 835 | 1583 | 884 | 1425 |
| 0.9C-0400-335-OP | 3.5 | 8.3 | 3884 | 1085 | 1266 | - | - | - | - | - | - | 1702 | 974 | 1669 | 2114 | 1281 | 2513 | 2526 | 1583 | 3358 | 2938 | 1883 | 4202 |
| 0.9C-0400-385-OP | 2.8 | 6.3 | 3860 | 1076 | 1253 | 1658 | 941 | 1579 | 2202 | 1346 | 2694 | 2747 | 1744 | 3809 | 3291 | 2139 | 4925 | 3836 | 2535 | 6040 | 4380 | 2929 | 7155 |
| 0.9C-0400-435-OP | 2.3 | 4.9 | 3841 | 1068 | 1242 | 2551 | 1601 | 3409 | 3246 | 2107 | 4833 | 3941 | 2611 | 6256 | 4636 | 3114 | 7680 | - | - | - | - | - | - |
| 0.9C-0400-485-OP | 2.0 | 3.5 | 3830 | 1064 | 1236 | 3559 | 2334 | 5472 | 4423 | 2960 | 7242 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-335-OP | 3.8 | 8.6 | 4276 | 1251 | 1505 | - | - | - | - | - | - | 1450 | 790 | 1188 | 1862 | 1099 | 2033 | 2274 | 1404 | 2877 | 2686 | 1705 | 3721 |
| 0.9C-0420-385-OP | 3.0 | 6.5 | 4252 | 1242 | 1492 | - | - | - | 1950 | 1165 | 2214 | 2495 | 1565 | 3329 | 3039 | 1961 | 4444 | 3584 | 2357 | 5559 | 4128 | 2751 | 6674 |
| 0.9C-0420-435-OP | 2.5 | 5.1 | 4233 | 1234 | 1481 | 2299 | 1422 | 2928 | 2994 | 1929 | 4352 | 3689 | 2433 | 5775 | 4384 | 2937 | 7199 | 5079 | 3440 | 8623 | - | - | - |
| 0.9C-0420-485-OP | 2.1 | 3.7 | 4222 | 1229 | 1474 | 3307 | 2156 | 4992 | 4171 | 2782 | 6761 | 5035 | 3408 | 8531 | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-335-OP | 4.7 | 9.5 | 5513 | 1482 | 1685 | - | - | - | - | - | - | - | - | - | - | - | - | 2031 | 1052 | 1360 | 2443 | 1366 | 2204 |
| 0.9C-0700-385-OP | 3.7 | 7.2 | 5489 | 1472 | 1671 | - | - | - | - | - | - | 2252 | 1221 | 1812 | 2796 | 1631 | 2927 | 3341 | 2035 | 4042 | 3885 | 2433 | 5157 |
| 0.9C-0700-435-OP | 3.0 | 5.6 | 5470 | 1465 | 1661 | - | - | - | 2751 | 1597 | 2835 | 3446 | 2112 | 4259 | 4141 | 2620 | 5682 | 4836 | 3126 | 7106 | 5531 | 3630 | 8529 |
| 0.9C-0700-485-OP | 2.5 | 4.0 | 5458 | 1460 | 1654 | 3064 | 1829 | 3475 | 3928 | 2464 | 5244 | 4792 | 3093 | 7014 | 5656 | 3721 | 8784 | - | - | - | - | - | - |
| 0.9C-0720-385-OP | 4.2 | 7.8 | 6492 | 1876 | 2237 | - | - | - | - | - | - | - | - | - | 2195 | 1178 | 1696 | 2739 | 1588 | 2811 | 3284 | 1993 | 3926 |
| 0.9C-0720-435-OP | 3.4 | 6.1 | 6474 | 1868 | 2226 | - | - | - | 2150 | 1144 | 1604 | 2845 | 1667 | 3027 | 3540 | 2181 | 4451 | 4235 | 2689 | 5875 | 4930 | 3194 | 7298 |
| 0.9C-0720-485-OP | 2.9 | 4.9 | 6462 | 1863 | 2220 | 2462 | 1381 | 2244 | 3326 | 2024 | 4013 | 4190 | 2656 | 5783 | 5055 | 3284 | 7553 | - | - | - | - | - | - |
| 1.5C-0800-385-OP | 3.7 | 8.5 | 6858 | 1573 | 1617 | - | - | - | - | - | - | 3329 | 1755 | 2393 | 4018 | 2277 | 3803 | 4706 | 2791 | 5213 | 5395 | 3301 | 6623 |
| 1.5C-0800-435-OP | 3.0 | 6.7 | 6834 | 1562 | 1604 | - | - | - | 3961 | 2234 | 3687 | 4840 | 2890 | 5487 | 5719 | 3538 | 7287 | 6598 | 4179 | 9087 | 7477 | 4819 | 10887 |
| 1.5C-0800-485-OP | 2.5 | 5.4 | 6820 | 1556 | 1595 | 4356 | 2530 | 4496 | 5448 | 3340 | 6733 | 6541 | 4138 | 8971 | 7634 | 4933 | 11209 | 8726 | 5726 | 13447 | - | - | - |
| 1.5C-0800-535-OP | 2.2 | 4.4 | 6816 | 1554 | 1593 | 5775 | 3579 | 7403 | 7105 | 4549 | 10126 | 8434 | 5514 | 12849 | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-385-OP | 5.1 | 9.8 | 10071 | 2304 | 2366 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4492 | 2265 | 2683 |
| 1.5C-1100-435-OP | 4.1 | 7.7 | 10047 | 2293 | 2352 | - | - | - | - | - | - | - | - | - | 4816 | 2517 | 3346 | 5695 | 3186 | 5146 | 6574 | 3845 | 6947 |
| 1.5C-1100-485-OP | 3.4 | 6.2 | 10032 | 2287 | 2344 | - | - | - | 4546 | 2307 | 2793 | 5638 | 3144 | 5031 | 6731 | 3962 | 7268 | 7824 | 4771 | 9506 | 8916 | 5571 | 11744 |
| 1.5C-1100-535-OP | 2.9 | 5.1 | 10029 | 2285 | 2342 | 4873 | 2561 | 3462 | 6202 | 3567 | 6185 | 7532 | 4556 | 8908 | 8861 | 5531 | 11631 | 10191 | 6500 | 14354 | - | - | - |
| 1.5C-1100-585-OP | 2.5 | 4.2 | 9981 | 2264 | 2315 | 6407 | 3720 | 6606 | 7997 | 4899 | 9861 | 9587 | 6061 | 13117 | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-385-OP | 5.8 | 10.6 | 11759 | 3030 | 3348 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-435-OP | 4.7 | 8.3 | 11735 | 3020 | 3334 | - | - | - | - | - | - | - | - | - | - | - | - | 4654 | 2403 | 3076 | 5533 | 3075 | 4876 |
| 1.5C-1200-485-OP | 3.8 | 6.6 | 11720 | 3014 | 3326 | - | - | - | - | - | - | 4598 | 2359 | 2960 | 5690 | 3193 | 5198 | 6783 | 4010 | 7436 | 7876 | 4819 | 9673 |
| 1.5C-1200-535-OP | 3.3 | 5.4 | 11717 | 3013 | 3324 | - | - | - | 5162 | 2793 | 4115 | 6491 | 3793 | 6838 | 7820 | 4779 | 9561 | 9150 | 5751 | 12284 | 10479 | 6719 | 15007 |
| 1.5C-1200-585-OP | 2.8 | 4.6 | 11669 | 2993 | 3297 | 5367 | 2949 | 4535 | 6956 | 4139 | 7791 | 8546 | 5310 | 11046 | 10135 | 6469 | 14302 | - | - | - | - | - | - |
| 1.5C-1300-385-OP | 6.8 | 11.5 | 13957 | 3650 | 4073 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-435-OP | 5.4 | 9.0 | 13933 | 3640 | 4059 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4711 | 2180 | 2180 |
| 1.5C-1300-485-OP | 4.5 | 7.3 | 13919 | 3634 | 4051 | - | - | - | - | - | - | - | - | - | 4868 | 2373 | 2501 | 5961 | 3223 | 4739 | 7054 | 4047 | 6977 |
| 1.5C-1300-535-OP | 3.8 | 6.0 | 13915 | 3633 | 4049 | - | - | - | - | - | - | 5669 | 3000 | 4141 | 6998 | 4006 | 6864 | 8328 | 4996 | 9587 | 9657 | 5975 | 12310 |
| 1.5C-1300-585-OP | 3.3 | 5.0 | 13867 | 3613 | 4022 | - | - | - | 6134 | 3355 | 5094 | 7724 | 4548 | 8350 | 9313 | 5723 | 11606 | 10903 | 6885 | 14861 | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 31. Models 0.9C-0350-485-OP to 1.5C-1300-585-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|-------|------|------|----------------------------------|------|-------|-------|------|-------|-------|------|-------|------|------|-------|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.9C-0350-485-OP | 1.7 | 3.5 | 3210 | 812 | 886 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-280-OP | 4.8 | 11.9 | 3904 | 1093 | 1278 | 1871 | 1100 | 2015 | 2446 | 1525 | 3195 | 3598 | 2362 | 5554 | 4174 | 2780 | 6734 | - | - | - |
| 0.9C-0400-335-OP | 3.5 | 8.3 | 3884 | 1085 | 1266 | 3351 | 2183 | 5046 | 4175 | 2780 | 6735 | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-385-OP | 2.8 | 6.3 | 3860 | 1076 | 1253 | 4925 | 3323 | 8270 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-435-OP | 2.3 | 4.9 | 3841 | 1068 | 1242 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0400-485-OP | 2.0 | 3.5 | 3830 | 1064 | 1236 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-335-OP | 3.8 | 8.6 | 4276 | 1251 | 1505 | 3099 | 2005 | 4566 | 3923 | 2603 | 6254 | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-385-OP | 3.0 | 6.5 | 4252 | 1242 | 1492 | 4673 | 3145 | 7789 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-435-OP | 2.5 | 5.1 | 4233 | 1234 | 1481 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0420-485-OP | 2.1 | 3.7 | 4222 | 1229 | 1474 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-335-OP | 4.7 | 9.5 | 5513 | 1482 | 1685 | 2856 | 1675 | 3049 | 3680 | 2284 | 4737 | 5329 | 3483 | 8115 | - | - | - | - | - | - |
| 0.9C-0700-385-OP | 3.7 | 7.2 | 5489 | 1472 | 1671 | 4429 | 2830 | 6272 | 5518 | 3621 | 8503 | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-435-OP | 3.0 | 5.6 | 5470 | 1465 | 1661 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0700-485-OP | 2.5 | 4.0 | 5458 | 1460 | 1654 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0720-385-OP | 4.2 | 7.8 | 6492 | 1876 | 2237 | 3828 | 2392 | 5041 | 4917 | 3185 | 7272 | - | - | - | - | - | - | - | - | - |
| 0.9C-0720-435-OP | 3.4 | 6.1 | 6474 | 1868 | 2226 | 5625 | 3699 | 8722 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9C-0720-485-OP | 2.9 | 4.9 | 6462 | 1863 | 2220 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-0800-385-OP | 3.7 | 8.5 | 6858 | 1573 | 1617 | 6083 | 3804 | 8033 | 7460 | 4807 | 10854 | - | - | - | - | - | - | - | - | - |
| 1.5C-0800-435-OP | 3.0 | 6.7 | 6834 | 1562 | 1604 | 8356 | 5457 | 12687 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-0800-485-OP | 2.5 | 5.4 | 6820 | 1556 | 1595 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-0800-535-OP | 2.2 | 4.4 | 6816 | 1554 | 1593 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-385-OP | 5.1 | 9.8 | 10071 | 2304 | 2366 | 5180 | 2797 | 4093 | 6557 | 3832 | 6913 | 9311 | 5860 | 12553 | - | - | - | - | - | - |
| 1.5C-1100-435-OP | 4.1 | 7.7 | 10047 | 2293 | 2352 | 7453 | 4497 | 8747 | 9211 | 5786 | 12347 | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-485-OP | 3.4 | 6.2 | 10032 | 2287 | 2344 | 10009 | 6368 | 13982 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-535-OP | 2.9 | 5.1 | 10029 | 2285 | 2342 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1100-585-OP | 2.5 | 4.2 | 9981 | 2264 | 2315 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-385-OP | 5.8 | 10.6 | 11759 | 3030 | 3348 | 4140 | 1996 | 2022 | 5517 | 3062 | 4842 | 8271 | 5109 | 10483 | 9648 | 6114 | 13303 | - | - | - |
| 1.5C-1200-435-OP | 4.7 | 8.3 | 11735 | 3020 | 3334 | 6412 | 3734 | 6676 | 8170 | 5035 | 10277 | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-485-OP | 3.8 | 6.6 | 11720 | 3014 | 3326 | 8968 | 5618 | 11911 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-535-OP | 3.3 | 5.4 | 11717 | 3013 | 3324 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1200-585-OP | 2.8 | 4.6 | 11669 | 2993 | 3297 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-385-OP | 6.8 | 11.5 | 13957 | 3650 | 4073 | - | - | - | 4695 | 2146 | 2146 | 7449 | 4342 | 7786 | 8826 | 5365 | 10607 | - | - | - |
| 1.5C-1300-435-OP | 5.4 | 9.0 | 13933 | 3640 | 4059 | 5590 | 2939 | 3980 | 7348 | 4267 | 7580 | 10864 | 6856 | 14781 | - | - | - | - | - | - |
| 1.5C-1300-485-OP | 4.5 | 7.3 | 13919 | 3634 | 4051 | 8146 | 4861 | 9215 | 10331 | 6467 | 13690 | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-535-OP | 3.8 | 6.0 | 13915 | 3633 | 4049 | 10987 | 6946 | 15033 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5C-1300-585-OP | 3.3 | 5.0 | 13867 | 3613 | 4022 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 32. Models 3C-2000-385-OP to 14C-5100-885-OP

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|
| | | | BTO | RTO | ETO | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 3C-2000-385-OP | 5.2 | 11.1 | 17300 | 4694 | 5367 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6004 | 3043 | 3666 |
| 3C-2000-435-OP | 4.2 | 8.7 | 17261 | 4678 | 5345 | - | - | - | - | - | - | - | - | - | 6540 | 3459 | 4765 | 7995 | 4560 | 7744 | 9450 | 5645 | 10724 |
| 3C-2000-485-OP | 3.5 | 7.2 | 17236 | 4668 | 5331 | - | - | - | - | - | - | 7901 | 4490 | 7553 | 9710 | 5837 | 11256 | 11518 | 7167 | 14960 | 13327 | 8486 | 18664 |
| 3C-2000-535-OP | 3.0 | 5.7 | 17231 | 4666 | 5328 | - | - | - | 8834 | 5187 | 9464 | 11035 | 6814 | 13971 | 13235 | 8420 | 18478 | 15436 | 10020 | 22985 | 17636 | 11616 | 27492 |
| 3C-2000-585-OP | 2.6 | 4.8 | 17151 | 4634 | 5283 | 9174 | 5440 | 10159 | 11805 | 7376 | 15548 | 14436 | 9293 | 20937 | 17067 | 11203 | 26326 | - | - | - | - | - | - |
| 3C-2050-385-OP | 6.8 | 12.0 | 23312 | 5601 | 5918 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2050-435-OP | 5.5 | 9.8 | 23272 | 5584 | 5896 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8577 | 3351 | 3351 |
| 3C-2050-485-OP | 4.5 | 8.0 | 23248 | 5574 | 5882 | - | - | - | - | - | - | - | - | - | 8837 | 3883 | 3883 | 10646 | 5599 | 7587 | 12454 | 6975 | 11291 |
| 3C-2050-535-OP | 3.8 | 6.5 | 23242 | 5572 | 5879 | - | - | - | - | - | - | 10162 | 5225 | 6598 | 12363 | 6906 | 11105 | 14564 | 8553 | 15612 | 16764 | 10186 | 20119 |
| 3C-2050-585-OP | 3.3 | 5.5 | 23163 | 5538 | 5834 | - | - | - | 10933 | 5820 | 8175 | 13564 | 7807 | 13564 | 16195 | 9764 | 18953 | 18826 | 11698 | 24341 | 21457 | 13618 | 29730 |
| 6C-2500-485-OP | 4.1 | 10.5 | 24670 | 6891 | 8034 | - | - | - | - | - | - | - | - | - | 9362 | 5093 | 7617 | 11476 | 6683 | 11948 | 13591 | 8252 | 16278 |
| 6C-2500-535-OP | 3.5 | 8.6 | 24663 | 6888 | 8031 | - | - | - | - | - | - | 10911 | 6261 | 10791 | 13484 | 8174 | 16060 | 16057 | 10059 | 21329 | 18629 | 11933 | 26598 |
| 6C-2500-585-OP | 3.0 | 7.8 | 24570 | 6851 | 7978 | - | - | - | 11812 | 6933 | 12635 | 14888 | 9205 | 18935 | 17964 | 11449 | 25235 | 21040 | 13686 | 31535 | 24116 | 15917 | 37835 |
| 6C-2500-635-OP | 2.6 | 6.1 | 24469 | 6810 | 7921 | 11971 | 7051 | 12960 | 15595 | 9722 | 20383 | 19219 | 12362 | 27806 | 22843 | 14994 | 35229 | 26468 | 17622 | 42652 | 30092 | 20246 | 50075 |
| 6C-2500-685-OP | 2.3 | 8.7 | 24360 | 6766 | 7860 | 15471 | 9632 | 20129 | 19688 | 12704 | 28767 | 23906 | 15765 | 37405 | 28123 | 18820 | 46043 | 32340 | 21874 | 54681 | - | - | - |
| 6C-2500-735-OP | 2.1 | 4.6 | 24242 | 6719 | 7793 | 19236 | 12375 | 27840 | 24091 | 15900 | 37785 | 28947 | 19417 | 47730 | 33803 | 22931 | 57675 | - | - | - | - | - | - |
| 6C-3800-535-OP | 4.5 | 9.7 | 33620 | 10043 | 12246 | - | - | - | - | - | - | - | - | - | - | - | - | 11494 | 6423 | 10342 | 14066 | 8347 | 15611 |
| 6C-3800-585-OP | 3.9 | 8.1 | 33527 | 10006 | 12193 | - | - | - | - | - | - | 10325 | 5537 | 7948 | 13401 | 7851 | 14248 | 16477 | 10128 | 20548 | 19553 | 12375 | 26848 |
| 6C-3800-635-OP | 3.4 | 6.9 | 33426 | 9966 | 12136 | - | - | - | 11032 | 6075 | 9396 | 14656 | 8784 | 16819 | 18280 | 11446 | 24242 | 21905 | 14086 | 31665 | 25529 | 16718 | 39088 |
| 6C-3800-685-OP | 3.0 | 9.4 | 33317 | 9923 | 12075 | - | - | - | 15125 | 9132 | 17780 | 19343 | 12222 | 26418 | 23560 | 15290 | 35056 | 27777 | 18350 | 43694 | 31995 | 21405 | 52332 |
| 6C-3800-735-OP | 2.7 | 5.1 | 33199 | 9876 | 12008 | 14673 | 8796 | 16853 | 19528 | 12357 | 26799 | 24384 | 15888 | 36744 | 29240 | 19410 | 46689 | 34095 | 22926 | 56634 | - | - | - |
| 6C-3900-535-OP | 4.8 | 10.0 | 36172 | 11116 | 13809 | - | - | - | - | - | - | - | - | - | - | - | - | 9846 | 5214 | 7212 | 12418 | 7159 | 12481 |
| 6C-3900-585-OP | 4.2 | 8.3 | 36080 | 11079 | 13756 | - | - | - | - | - | - | - | - | - | 11753 | 6660 | 11118 | 14829 | 8951 | 17418 | 17905 | 11207 | 23718 |
| 6C-3900-635-OP | 3.6 | 7.0 | 35978 | 11039 | 13699 | - | - | - | 9384 | 4857 | 6266 | 13008 | 7598 | 13689 | 16632 | 10278 | 21112 | 20257 | 12922 | 28535 | 23881 | 15556 | 35958 |
| 6C-3900-685-OP | 3.2 | 6.0 | 35869 | 10995 | 13638 | - | - | - | 13477 | 7948 | 14649 | 17695 | 11054 | 23287 | 21912 | 14126 | 31925 | 26129 | 17188 | 40563 | 30347 | 20244 | 49201 |
| 6C-3900-735-OP | 2.9 | 5.3 | 35751 | 10949 | 13571 | 13025 | 7611 | 13723 | 17880 | 11190 | 23668 | 22736 | 14725 | 33613 | 27592 | 18249 | 43558 | 32447 | 21765 | 53503 | - | - | - |
| 14C-5100-635-OP | 3.7 | 10.5 | 40170 | 12043 | 14720 | - | - | - | - | - | - | 14412 | 8215 | 13923 | 18373 | 11161 | 22036 | 22334 | 14061 | 30149 | 26296 | 16945 | 38262 |
| 14C-5100-685-OP | 3.2 | 9.0 | 40050 | 11996 | 14653 | - | - | - | 14925 | 8599 | 14973 | 19534 | 12015 | 24414 | 24144 | 15379 | 33855 | 28753 | 18730 | 43296 | 33363 | 22075 | 52737 |
| 14C-5100-735-OP | 2.9 | 7.4 | 39921 | 11945 | 14580 | 14430 | 8228 | 13960 | 19737 | 12164 | 24830 | 25044 | 16035 | 35699 | 30351 | 19890 | 46569 | 35658 | 23737 | 57438 | 40965 | 27580 | 68308 |
| 14C-5100-785-OP | 2.6 | 6.9 | 39784 | 11890 | 14502 | 18835 | 11502 | 22982 | 24889 | 15922 | 35381 | 30942 | 20319 | 47780 | 36996 | 24706 | 60178 | 43049 | 29089 | 72577 | 49103 | 33467 | 84976 |
| 14C-5100-835-OP | 2.3 | 6.1 | 39637 | 11832 | 14420 | 23530 | 14933 | 32598 | 30379 | 19910 | 46626 | 37228 | 24874 | 60655 | 44078 | 29834 | 74683 | 50927 | 34786 | 88712 | 57776 | 39738 | 102740 |
| 14C-5100-885-OP | 2.2 | 5.4 | 39481 | 11770 | 14332 | 28514 | 18557 | 42807 | 36209 | 24136 | 58566 | 43903 | 29707 | 74324 | 51597 | 35270 | 90083 | 59291 | 40833 | 105842 | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 33. Models 3C-2000-385-OP to 14C-5100-885-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 3C-2000-385-OP | 5.2 | 11.1 | 17300 | 4694 | 5367 | 7143 | 3919 | 6000 | 9422 | 5624 | 10668 | 13981 | 8962 | 20004 | 16260 | 10618 | 24672 | - | - | - |
| 3C-2000-435-OP | 4.2 | 8.7 | 17261 | 4678 | 5345 | 10904 | 6718 | 13704 | 13814 | 8840 | 19663 | - | - | - | - | - | - | - | - | - |
| 3C-2000-485-OP | 3.5 | 7.2 | 17236 | 4668 | 5331 | 15135 | 9801 | 22368 | 18752 | 12425 | 29776 | - | - | - | - | - | - | - | - | - |
| 3C-2000-535-OP | 3 | 5.7 | 17231 | 4666 | 5328 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2000-585-OP | 2.6 | 4.8 | 17151 | 4634 | 5283 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2050-385-OP | 7 | 12 | 23312 | 5601 | 5918 | - | - | - | 8550 | 3295 | 3295 | 13108 | 7466 | 12631 | 15387 | 9166 | 17299 | 19946 | 12516 | 26635 |
| 3C-2050-435-OP | 6 | 10 | 23272 | 5584 | 5896 | 10032 | 5123 | 6330 | 12942 | 7341 | 12290 | 18761 | 11651 | 24208 | - | - | - | - | - | - |
| 3C-2050-485-OP | 5 | 8 | 23248 | 5574 | 5882 | 14262 | 8329 | 14995 | 17879 | 11006 | 22403 | - | - | - | - | - | - | - | - | - |
| 3C-2050-535-OP | 4 | 7 | 23242 | 5572 | 5879 | 18965 | 11800 | 24626 | - | - | - | - | - | - | - | - | - | - | - | - |
| 3C-2050-585-OP | 3 | 6 | 23163 | 5538 | 5834 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-2500-485-OP | 4.1 | 10.5 | 24670 | 6891 | 8034 | 15705 | 9802 | 20608 | 19933 | 12882 | 29269 | 28390 | 19014 | 46590 | 32619 | 22075 | 55250 | - | - | - |
| 6C-2500-535-OP | 3.5 | 8.6 | 24663 | 6888 | 8031 | 21202 | 13803 | 31867 | 26347 | 17534 | 42405 | - | - | - | - | - | - | - | - | - |
| 6C-2500-585-OP | 3 | 7.8 | 24570 | 6851 | 7978 | 27192 | 18146 | 44135 | 33343 | 22600 | 56735 | - | - | - | - | - | - | - | - | - |
| 6C-2500-635-OP | 2.6 | 6.1 | 24469 | 6810 | 7921 | 33716 | 22869 | 57498 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-2500-685-OP | 2.3 | 8.7 | 24360 | 6766 | 7860 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-2500-735-OP | 2.1 | 4.6 | 24242 | 6719 | 7793 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3800-535-OP | 4.5 | 9.7 | 33620 | 10043 | 12246 | 16639 | 10247 | 20880 | 21784 | 13999 | 31419 | 32075 | 21462 | 52495 | - | - | - | - | - | - |
| 6C-3800-585-OP | 3.9 | 8.1 | 33527 | 10006 | 12193 | 22629 | 14613 | 33148 | 28780 | 19077 | 45748 | - | - | - | - | - | - | - | - | - |
| 6C-3800-635-OP | 3.4 | 6.9 | 33426 | 9966 | 12136 | 29153 | 19347 | 46511 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3800-685-OP | 3 | 9.4 | 33317 | 9923 | 12075 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3800-735-OP | 2.7 | 5.1 | 33199 | 9876 | 12008 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3900-535-OP | 4.8 | 10 | 36172 | 11116 | 13809 | 14991 | 9071 | 17750 | 20136 | 12834 | 28288 | 30427 | 20302 | 49365 | 35572 | 24028 | 59903 | - | - | - |
| 6C-3900-585-OP | 4.2 | 8.3 | 36080 | 11079 | 13756 | 20981 | 13448 | 30018 | 27133 | 17915 | 42618 | - | - | - | - | - | - | - | - | - |
| 6C-3900-635-OP | 3.6 | 7 | 35978 | 11039 | 13699 | 27505 | 18186 | 43381 | 34753 | 23435 | 58227 | - | - | - | - | - | - | - | - | - |
| 6C-3900-685-OP | 3.2 | 6 | 35869 | 10995 | 13638 | 34564 | 23298 | 57839 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6C-3900-735-OP | 2.9 | 5.3 | 35751 | 10949 | 13571 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5100-635-OP | 3.7 | 10.5 | 40170 | 12043 | 14720 | 30257 | 19821 | 46375 | 38179 | 25563 | 62601 | 54023 | 37025 | 95053 | 61946 | 42752 | 111280 | - | - | - |
| 14C-5100-685-OP | 3.2 | 9 | 40050 | 11996 | 14653 | 37972 | 25413 | 62178 | 47191 | 32085 | 81060 | 65629 | 45415 | 118824 | - | - | - | - | - | - |
| 14C-5100-735-OP | 2.9 | 7.4 | 39921 | 11945 | 14580 | 46272 | 31420 | 79177 | 56886 | 39094 | 100917 | - | - | - | - | - | - | - | - | - |
| 14C-5100-785-OP | 2.6 | 6.9 | 39784 | 11890 | 14502 | 55157 | 37844 | 97374 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5100-835-OP | 2.3 | 6.1 | 39637 | 11832 | 14420 | 64626 | 44690 | 116768 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5100-885-OP | 2.2 | 5.4 | 39481 | 11770 | 14332 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 34. Models 14C-5100-935-OP to 14C-8300-935-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|--------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 14C-5100-935-OP | 2.0 | 4.8 | 39316 | 11704 | 14239 | 33789 | 22384 | 53609 | 42377 | 28602 | 71199 | 50965 | 34813 | 88789 | 59553 | 41022 | 106379 | - | - | - | - | - | - |
| 14C-5400-635-OP | 4.5 | 11.4 | 51974 | 14788 | 17456 | - | - | - | - | - | - | - | - | - | - | - | - | 19031 | 10386 | 15670 | 22992 | 13364 | 23783 |
| 14C-5400-685-OP | 4.0 | 9.8 | 51854 | 14740 | 17389 | - | - | - | - | - | - | - | - | - | 20840 | 11753 | 19376 | 25450 | 15192 | 28817 | 30059 | 18590 | 38258 |
| 14C-5400-735-OP | 3.5 | 8.5 | 51725 | 14689 | 17316 | - | - | - | - | - | - | 21741 | 12428 | 21221 | 27048 | 16377 | 32090 | 32355 | 20267 | 42960 | 37662 | 24133 | 53829 |
| 14C-5400-785-OP | 3.2 | 7.2 | 51587 | 14634 | 17239 | - | - | - | 21585 | 12312 | 20902 | 27639 | 16813 | 33301 | 33692 | 21243 | 45700 | 39746 | 25650 | 58098 | 45799 | 30044 | 70497 |
| 14C-5400-835-OP | 2.9 | 6.6 | 51441 | 14575 | 17156 | 20226 | 11290 | 18119 | 27076 | 16397 | 32148 | 33925 | 21413 | 46176 | 40774 | 26398 | 60204 | 47623 | 31368 | 74233 | 54473 | 36331 | 88261 |
| 14C-5400-885-OP | 2.6 | 5.9 | 51285 | 14513 | 17068 | 25211 | 15015 | 28328 | 32905 | 20669 | 44087 | 40599 | 26270 | 59846 | 48293 | 31854 | 75605 | 55987 | 37428 | 91363 | 63681 | 42999 | 107122 |
| 14C-5400-935-OP | 2.4 | 5.2 | 51120 | 14447 | 16975 | 30485 | 18903 | 39131 | 39073 | 25160 | 56721 | 47661 | 31395 | 74310 | 56249 | 37617 | 91900 | 64837 | 43836 | 109490 | - | - | - |
| 14C-8300-735-OP | 4.4 | 9.3 | 66586 | 19102 | 22673 | - | - | - | - | - | - | - | - | - | 21051 | 10860 | 13862 | 26358 | 14903 | 24732 | 31664 | 18862 | 35601 |
| 14C-8300-785-OP | 3.9 | 8.2 | 66448 | 19047 | 22595 | - | - | - | - | - | - | 21642 | 11318 | 15073 | 27695 | 15905 | 27472 | 33749 | 20407 | 39870 | 39802 | 24849 | 52269 |
| 14C-8300-835-OP | 3.5 | 7.7 | 66301 | 18988 | 22513 | - | - | - | - | - | - | 27928 | 16079 | 27948 | 34777 | 21167 | 41977 | 41626 | 26180 | 56005 | 48476 | 31168 | 70033 |
| 14C-8300-885-OP | 3.2 | 6.4 | 66145 | 18926 | 22425 | - | - | - | 26908 | 15315 | 25859 | 34602 | 21038 | 41618 | 42296 | 26669 | 57377 | 49990 | 32269 | 73136 | 57684 | 37855 | 88894 |
| 14C-8300-935-OP | 2.9 | 5.8 | 65980 | 18860 | 22332 | 24488 | 13493 | 20903 | 33076 | 19908 | 38493 | 41664 | 26208 | 56082 | 50252 | 32460 | 73672 | 58840 | 38694 | 91262 | 67428 | 44918 | 108852 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 35. Models 14C-5100-935-OP to 14C-8300-935-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 14C-5100-935-OP | 2.0 | 4.8 | 39316 | 11704 | 14239 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5400-635-OP | 4.5 | 11.4 | 51974 | 14788 | 17456 | 26953 | 16307 | 31897 | 34875 | 22106 | 48123 | 50720 | 33614 | 80575 | 58642 | 39350 | 96801 | - | - | - |
| 14C-5400-685-OP | 4.0 | 9.8 | 51854 | 14740 | 17389 | 34669 | 21955 | 47699 | 43888 | 28657 | 66581 | 62325 | 42017 | 104345 | - | - | - | - | - | - |
| 14C-5400-735-OP | 3.5 | 8.5 | 51725 | 14689 | 17316 | 42969 | 27990 | 64699 | 53582 | 35686 | 86438 | - | - | - | - | - | - | - | - | - |
| 14C-5400-785-OP | 3.2 | 7.2 | 51587 | 14634 | 17239 | 51853 | 34434 | 82896 | 63960 | 43201 | 107693 | - | - | - | - | - | - | - | - | - |
| 14C-5400-835-OP | 2.9 | 6.6 | 51441 | 14575 | 17156 | 61322 | 41291 | 102290 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5400-885-OP | 2.6 | 5.9 | 51285 | 14513 | 17068 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-5400-935-OP | 2.4 | 5.2 | 51120 | 14447 | 16975 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-8300-735-OP | 4.4 | 9.3 | 66586 | 19102 | 22673 | 36971 | 22780 | 46471 | 47585 | 30520 | 68210 | 68813 | 45921 | 111688 | - | - | - | - | - | - |
| 14C-8300-785-OP | 3.9 | 8.2 | 66448 | 19047 | 22595 | 45856 | 29262 | 64668 | 57963 | 38057 | 89465 | - | - | - | - | - | - | - | - | - |
| 14C-8300-835-OP | 3.5 | 7.7 | 66301 | 18988 | 22513 | 55325 | 36143 | 84062 | 69023 | 46073 | 112119 | - | - | - | - | - | - | - | - | - |
| 14C-8300-885-OP | 3.2 | 6.4 | 66145 | 18926 | 22425 | 65378 | 43434 | 104653 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14C-8300-935-OP | 2.9 | 5.8 | 65980 | 18860 | 22332 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 36. Models 18C-9600-835-OP to 18C-11000-1300-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|-------|-------|----------------------------------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 18C-9600-835-OP | 4.6 | 9.7 | 105772 | 26591 | 28911 | - | - | - | - | - | - | - | - | - | - | - | - | 43282 | 22271 | 28189 | 51159 | 28301 | 44322 |
| 18C-9600-935-OP | 3.8 | 7.5 | 105403 | 26438 | 28703 | - | - | - | - | - | - | 43326 | 22305 | 28278 | 53202 | 29841 | 48507 | 63078 | 37227 | 68735 | 72955 | 44544 | 88963 |
| 18C-9600-1000-OP | 3.4 | 6.7 | 105141 | 26329 | 28555 | - | - | - | 43254 | 22249 | 28131 | 54551 | 30857 | 51269 | 65848 | 39283 | 74408 | 77145 | 47618 | 97546 | 88442 | 55867 | 120685 |
| 18C-9600-1100-OP | 2.9 | 5.6 | 104703 | 26148 | 28308 | 45954 | 24337 | 33661 | 59623 | 34653 | 61659 | 73293 | 44794 | 89656 | 86963 | 54787 | 117654 | 100632 | 64739 | 145651 | 114302 | 74668 | 173649 |
| 18C-9600-1200-OP | 2.5 | 4.7 | 104224 | 25949 | 28038 | 61284 | 35890 | 65060 | 77552 | 47916 | 98379 | 93820 | 59784 | 131699 | 110088 | 71611 | 165018 | - | - | - | - | - | - |
| 18C-9600-1300-OP | 2.2 | 4.0 | 103703 | 25733 | 27744 | 77947 | 48205 | 99189 | 97040 | 62126 | 138293 | 116132 | 75996 | 177397 | - | - | - | - | - | - | - | - | - |
| 18C-9800-835-OP | 5.7 | 10.7 | 134273 | 33251 | 35801 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-935-OP | 4.7 | 8.6 | 133904 | 33097 | 35593 | - | - | - | - | - | - | - | - | - | - | - | - | 54828 | 27845 | 33776 | 64705 | 35438 | 54004 |
| 18C-9800-1000-OP | 4.2 | 7.1 | 133642 | 32987 | 35446 | - | - | - | - | - | - | - | - | - | 57598 | 30000 | 39449 | 68895 | 38605 | 62587 | 80193 | 47060 | 85726 |
| 18C-9800-1100-OP | 3.5 | 6.2 | 133204 | 32805 | 35199 | - | - | - | - | - | - | 65043 | 35695 | 54697 | 78713 | 45957 | 82695 | 92382 | 56104 | 110692 | 106052 | 66127 | 138690 |
| 18C-9800-1200-OP | 3.1 | 5.2 | 132724 | 32604 | 34929 | - | - | - | 69302 | 38912 | 63420 | 85570 | 51056 | 96740 | 101838 | 63049 | 130059 | 118106 | 74922 | 163379 | - | - | - |
| 18C-9800-1300-OP | 2.7 | 4.4 | 132203 | 32386 | 34635 | 69697 | 39210 | 64230 | 88790 | 53443 | 103334 | 107882 | 67462 | 142438 | - | - | - | - | - | - | - | - | - |
| 18C-10500-935-OP | 5.4 | 9.2 | 156518 | 38971 | 42109 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 57152 | 26267 | 26267 |
| 18C-10500-1000-OP | 4.8 | 8.1 | 156255 | 38862 | 41961 | - | - | - | - | - | - | - | - | - | - | - | - | 61342 | 30579 | 34850 | 72639 | 39324 | 57988 |
| 18C-10500-1100-OP | 4.0 | 6.7 | 155817 | 38681 | 41714 | - | - | - | - | - | - | - | - | - | 71160 | 38193 | 54957 | 84829 | 48519 | 82955 | 98499 | 58707 | 110952 |
| 18C-10500-1200-OP | 3.5 | 5.6 | 155338 | 38482 | 41444 | - | - | - | - | - | - | 78017 | 43399 | 69002 | 94285 | 55577 | 102322 | 110553 | 67629 | 135641 | 126821 | 79523 | 168960 |
| 18C-10500-1300-OP | 3.0 | 4.8 | 154817 | 38265 | 41150 | - | - | - | 81237 | 45826 | 75597 | 100329 | 60064 | 114701 | 119421 | 74124 | 153805 | - | - | - | - | - | - |
| 18C-11000-935-OP | 5.9 | 9.9 | 175538 | 46768 | 52829 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-11000-1000-OP | 5.3 | 8.6 | 175275 | 46662 | 52681 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 61249 | 30504 | 34658 |
| 18C-11000-1100-OP | 4.4 | 7.3 | 174838 | 46484 | 52435 | - | - | - | - | - | - | - | - | - | 59769 | 29327 | 31627 | 73438 | 39930 | 59624 | 87108 | 50227 | 87622 |
| 18C-11000-1200-OP | 3.8 | 6.0 | 174358 | 46289 | 52164 | - | - | - | - | - | - | 66626 | 34710 | 45672 | 82894 | 47069 | 78991 | 99162 | 59198 | 112311 | 115430 | 71201 | 145630 |
| 18C-11000-1300-OP | 3.3 | 5.1 | 173837 | 46077 | 51870 | - | - | - | 69846 | 37188 | 52266 | 88938 | 51593 | 91370 | 108030 | 65766 | 130474 | 127122 | 79743 | 169578 | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 37. Models 18C-9600-835-OP to 18C-11000-1300-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|-------|-------|----------------------------------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 18C-9600-835-OP | 4.6 | 9.7 | 105772 | 26591 | 28911 | 59036 | 34215 | 60455 | 74789 | 45892 | 92720 | 106296 | 68859 | 157251 | - | - | - | - | - | - |
| 18C-9600-935-OP | 3.8 | 7.5 | 105403 | 26438 | 28703 | 82831 | 51772 | 109191 | 102583 | 66159 | 149648 | - | - | - | - | - | - | - | - | - |
| 18C-9600-1000-OP | 3.4 | 6.7 | 105141 | 26329 | 28555 | 99740 | 64090 | 143823 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9600-1100-OP | 2.9 | 5.6 | 104703 | 26148 | 28308 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9600-1200-OP | 2.5 | 4.7 | 104224 | 25949 | 28038 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9600-1300-OP | 2.2 | 4.0 | 103703 | 25733 | 27744 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-835-OP | 5.7 | 10.7 | 134273 | 33251 | 35801 | 50786 | 24636 | 25496 | 66539 | 36829 | 57761 | 98046 | 60272 | 122292 | 113799 | 71780 | 154558 | - | - | - |
| 18C-9800-935-OP | 4.7 | 8.6 | 133904 | 33097 | 35593 | 74581 | 42873 | 74233 | 94334 | 57545 | 114689 | - | - | - | - | - | - | - | - | - |
| 18C-9800-1000-OP | 4.2 | 7.1 | 133642 | 32987 | 35446 | 91490 | 55445 | 108864 | 114084 | 71988 | 155141 | - | - | - | - | - | - | - | - | - |
| 18C-9800-1100-OP | 3.5 | 6.2 | 133204 | 32805 | 35199 | 119721 | 76097 | 166688 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-1200-OP | 3.1 | 5.2 | 132724 | 32604 | 34929 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-9800-1300-OP | 2.7 | 4.4 | 132203 | 32386 | 34635 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-10500-935-OP | 5.4 | 9.2 | 156518 | 38971 | 42109 | 67028 | 35020 | 46495 | 86780 | 49982 | 86951 | 126286 | 79133 | 167864 | - | - | - | - | - | - |
| 18C-10500-1000-OP | 4.8 | 8.1 | 156255 | 38862 | 41961 | 83937 | 47851 | 81127 | 106531 | 64660 | 127404 | - | - | - | - | - | - | - | - | - |
| 18C-10500-1100-OP | 4.0 | 6.7 | 155817 | 38681 | 41714 | 112168 | 68813 | 138950 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-10500-1200-OP | 3.5 | 5.6 | 155338 | 38482 | 41444 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-10500-1300-OP | 3.0 | 4.8 | 154817 | 38265 | 41150 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-11000-935-OP | 5.9 | 9.9 | 175538 | 46768 | 52829 | 55637 | 23164 | 23164 | 75390 | 41412 | 63621 | 114895 | 70809 | 144534 | - | - | - | - | - | - |
| 18C-11000-1000-OP | 5.3 | 8.6 | 175275 | 46662 | 52681 | 72546 | 39253 | 57796 | 95140 | 56215 | 104073 | - | - | - | - | - | - | - | - | - |
| 18C-11000-1100-OP | 4.4 | 7.3 | 174838 | 46484 | 52435 | 100777 | 60396 | 115619 | 128117 | 80469 | 171615 | - | - | - | - | - | - | - | - | - |
| 18C-11000-1200-OP | 3.8 | 6.0 | 174358 | 46289 | 52164 | 131698 | 83082 | 178950 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18C-11000-1300-OP | 3.3 | 5.1 | 173837 | 46077 | 51870 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 38. Models 32C-9900-1100-OP to 50C-17300-1450-OP

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | BTO | RTO | ETO | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 32C-9900-1100-OP | 3.6 | 8.0 | 162513 | 36181 | 36641 | - | - | - | - | - | - | 80503 | 42213 | 56675 | 96550 | 54413 | 89542 | 112597 | 66406 | 122409 | 128644 | 78301 | 155275 |
| 32C-9900-1200-OP | 3.2 | 6.7 | 161950 | 35928 | 36324 | - | - | - | 85503 | 46049 | 66916 | 104600 | 60448 | 106030 | 123697 | 74642 | 145144 | 142794 | 88681 | 184258 | 161892 | 102617 | 223372 |
| 32C-9900-1300-OP | 2.8 | 5.7 | 161338 | 35651 | 35979 | 85967 | 46404 | 67866 | 108380 | 63264 | 113771 | 130792 | 79887 | 159676 | 153205 | 96278 | 205580 | 175618 | 112602 | 251485 | 198030 | 128892 | 297390 |
| 32C-12000-1100-OP | 4.3 | 8.6 | 198681 | 47223 | 49571 | - | - | - | - | - | - | - | - | - | 82058 | 40618 | 45178 | 98104 | 53062 | 78045 | 114151 | 65172 | 110912 |
| 32C-12000-1200-OP | 3.7 | 7.8 | 198118 | 46984 | 49253 | - | - | - | - | - | - | 90108 | 46924 | 61666 | 109205 | 61460 | 100780 | 128302 | 75735 | 139894 | 147399 | 89885 | 179008 |
| 32C-12000-1300-OP | 3.3 | 6.2 | 197506 | 46724 | 48909 | - | - | - | 93887 | 49837 | 69407 | 116300 | 66782 | 115312 | 138712 | 83458 | 161217 | 161125 | 99952 | 207122 | 183538 | 116307 | 253026 |
| 32C-15000-1100-OP | 4.9 | 9.2 | 231520 | 58032 | 62974 | - | - | - | - | - | - | - | - | - | - | - | - | 83346 | 37764 | 37764 | 99393 | 52239 | 70631 |
| 32C-15000-1200-OP | 4.2 | 7.5 | 230957 | 57799 | 62657 | - | - | - | - | - | - | - | - | - | 94446 | 48407 | 60499 | 113544 | 63023 | 99613 | 132641 | 77343 | 138727 |
| 32C-15000-1300-OP | 3.7 | 6.6 | 230345 | 57545 | 62312 | - | - | - | - | - | - | 101542 | 53893 | 75031 | 123954 | 70851 | 120936 | 146367 | 87547 | 166840 | 168779 | 104081 | 212745 |
| 50C-15400-1100-OP | 4.8 | 10.4 | 250577 | 56694 | 57877 | - | - | - | - | - | - | - | - | - | - | - | - | 104614 | 50139 | 50139 | 122444 | 64289 | 86658 |
| 50C-15400-1200-OP | 4.2 | 8.8 | 249951 | 56417 | 57525 | - | - | - | - | - | - | - | - | - | 116947 | 60031 | 75401 | 138166 | 76290 | 118861 | 159386 | 92230 | 162321 |
| 50C-15400-1300-OP | 3.6 | 7.6 | 249271 | 56117 | 57142 | - | - | - | - | - | - | 124831 | 66130 | 91547 | 149734 | 85001 | 142552 | 174637 | 103587 | 193558 | 199540 | 122025 | 244563 |
| 50C-15400-1450-OP | 3.0 | 6.0 | 248150 | 55620 | 56509 | - | - | - | 141869 | 79082 | 126444 | 172850 | 102263 | 189898 | 203831 | 125171 | 253353 | 234813 | 147809 | 316808 | 265794 | 170371 | 380263 |
| 50C-15600-1100-OP | 5.0 | 10.6 | 262195 | 61728 | 64426 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 115486 | 58894 | 72407 |
| 50C-15600-1200-OP | 4.3 | 8.9 | 261570 | 61459 | 64073 | - | - | - | - | - | - | - | - | - | 109989 | 54562 | 61149 | 131208 | 71007 | 104610 | 152428 | 87020 | 148070 |
| 50C-15600-1300-OP | 3.8 | 7.5 | 260890 | 61168 | 63690 | - | - | - | - | - | - | 117873 | 60751 | 77296 | 142776 | 79766 | 128301 | 167679 | 98410 | 179307 | 192582 | 116888 | 230312 |
| 50C-15600-1450-OP | 3.1 | 6.1 | 259768 | 60686 | 63058 | - | - | - | 134911 | 73818 | 112192 | 165892 | 97078 | 175647 | 196873 | 120057 | 239102 | 227855 | 142732 | 302557 | 258836 | 165310 | 366012 |
| 50C-17300-1100-OP | 5.5 | 11.1 | 290703 | 70753 | 75353 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-17300-1200-OP | 4.7 | 9.3 | 290077 | 70491 | 75001 | - | - | - | - | - | - | - | - | - | - | - | - | 119078 | 59753 | 69642 | 140297 | 76143 | 113102 |
| 50C-17300-1300-OP | 4.1 | 7.9 | 289398 | 70205 | 74617 | - | - | - | - | - | - | - | - | - | 130645 | 68755 | 93333 | 155548 | 87676 | 144339 | 180451 | 106290 | 195344 |
| 50C-17300-1450-OP | 3.4 | 6.4 | 288276 | 69732 | 73985 | - | - | - | 122780 | 62660 | 77224 | 153761 | 86329 | 140679 | 184743 | 109483 | 204134 | 215724 | 132394 | 267589 | 246705 | 155036 | 331044 |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 39. Models 32C-9900-1100-OP to 50C-17300-1450-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|-------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|-----|-----|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 32C-9900-1100-OP | 3.6 | 8.0 | 162513 | 36181 | 36641 | 144691 | 90065 | 188142 | 176785 | 113451 | 253876 | - | - | - | - | - | - | - | - | - |
| 32C-9900-1200-OP | 3.2 | 6.7 | 161950 | 35928 | 36324 | 180989 | 116509 | 262486 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-9900-1300-OP | 2.8 | 5.7 | 161338 | 35651 | 35979 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-12000-1100-OP | 4.3 | 8.6 | 198681 | 47223 | 49571 | 130198 | 77145 | 143778 | 162292 | 100804 | 209512 | - | - | - | - | - | - | - | - | - |
| 32C-12000-1200-OP | 3.7 | 7.8 | 198118 | 46984 | 49253 | 166496 | 103872 | 218122 | 204690 | 131695 | 296351 | - | - | - | - | - | - | - | - | - |
| 32C-12000-1300-OP | 3.3 | 6.2 | 197506 | 46724 | 48909 | 205950 | 132612 | 298931 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32C-15000-1100-OP | 4.9 | 9.2 | 231520 | 58032 | 62974 | 115440 | 64453 | 103497 | 147534 | 88412 | 169231 | 211721 | 135403 | 300698 | - | - | - | - | - | - |
| 32C-15000-1200-OP | 4.2 | 7.5 | 230957 | 57799 | 62657 | 151738 | 91530 | 177841 | 189932 | 119531 | 256069 | - | - | - | - | - | - | - | - | - |
| 32C-15000-1300-OP | 3.7 | 6.6 | 230345 | 57545 | 62312 | 191192 | 120451 | 258650 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-15400-1100-OP | 4.8 | 10.4 | 250577 | 56694 | 57877 | 140274 | 77879 | 123176 | 175933 | 104549 | 196214 | 247253 | 156884 | 342288 | 282913 | 182824 | 415325 | - | - | - |
| 50C-15400-1200-OP | 4.2 | 8.8 | 249951 | 56417 | 57525 | 180605 | 108012 | 205781 | 223043 | 139221 | 292701 | - | - | - | - | - | - | - | - | - |
| 50C-15400-1300-OP | 3.6 | 7.6 | 249271 | 56117 | 57142 | 224442 | 140242 | 295568 | 274248 | 176521 | 397579 | - | - | - | - | - | - | - | - | - |
| 50C-15400-1450-OP | 3.0 | 6.0 | 248150 | 55620 | 56509 | 296775 | 192893 | 443718 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-15600-1100-OP | 5.0 | 10.6 | 262195 | 61728 | 64426 | 133316 | 72607 | 108925 | 168975 | 99376 | 181963 | 240295 | 151810 | 328037 | 275955 | 177763 | 401074 | - | - | - |
| 50C-15600-1200-OP | 4.3 | 8.9 | 261570 | 61459 | 64073 | 173647 | 102853 | 191530 | 216085 | 134143 | 278450 | - | - | - | - | - | - | - | - | - |
| 50C-15600-1300-OP | 3.8 | 7.5 | 260890 | 61168 | 63690 | 217484 | 135165 | 281317 | 267290 | 171460 | 383328 | - | - | - | - | - | - | - | - | - |
| 50C-15600-1450-OP | 3.1 | 6.1 | 259768 | 60686 | 63058 | 289817 | 187845 | 429466 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50C-17300-1100-OP | 5.5 | 11.1 | 290703 | 70753 | 75353 | 121185 | 61409 | 73957 | 156845 | 88652 | 146995 | 228164 | 141505 | 293069 | 263824 | 167521 | 366106 | - | - | - |
| 50C-17300-1200-OP | 4.7 | 9.3 | 290077 | 70491 | 75001 | 161516 | 92152 | 156562 | 203954 | 123724 | 243482 | 288830 | 185712 | 417322 | - | - | - | - | - | - |
| 50C-17300-1300-OP | 4.1 | 7.9 | 289398 | 70205 | 74617 | 205354 | 124758 | 246349 | 255160 | 161205 | 348360 | - | - | - | - | - | - | - | - | - |
| 50C-17300-1450-OP | 3.4 | 6.4 | 288276 | 69732 | 73985 | 277686 | 177605 | 394498 | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 40. Models 50C-18600-1100-OP to 80C-19700-1800-OP

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--|--|
| | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | | | | | | | |
| | | | BTO | RTO | ETO | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | | | |
| 50C-18600-1100-OP | 6.8 | 10.0 | 370358 | 84384 | 86467 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 50C-18600-1200-OP | 5.8 | 10.4 | 369733 | 84111 | 86114 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| 50C-18600-1300-OP | 5.1 | 8.9 | 369053 | 83813 | 85731 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 165225 | 83106 | 97639 | | | |
| 50C-18600-1450-OP | 4.2 | 7.2 | 367931 | 83321 | 85099 | - | - | - | - | - | - | - | - | - | 169516 | 86476 | 106429 | 200497 | 110253 | 169884 | 231479 | 133554 | 233339 | | | |
| 65C-18400-1600-OP | 3.5 | 8.0 | 347551 | 81904 | 85534 | - | - | - | - | - | - | 177099 | 96581 | 145435 | 212936 | 123537 | 218835 | 248772 | 150167 | 292234 | 284609 | 176521 | 365633 | | | |
| 65C-18400-1700-OP | 3.2 | 7.0 | 346698 | 81539 | 85053 | - | - | - | 173138 | 93572 | 137321 | 213594 | 124028 | 220182 | 254050 | 154077 | 303043 | 294506 | 183744 | 385904 | 334962 | 213244 | 468765 | | | |
| 65C-18400-1800-OP | 2.9 | 6.0 | 345794 | 81151 | 84544 | 161589 | 84715 | 113667 | 206944 | 119060 | 206563 | 252300 | 152783 | 299459 | 297656 | 186043 | 392355 | 343011 | 219099 | 485251 | 388367 | 252081 | 578147 | | | |
| 65C-19400-1600-OP | 4.1 | 8.0 | 414531 | 99107 | 104396 | - | - | - | - | - | - | - | - | - | 190983 | 100553 | 136676 | 226819 | 127781 | 210075 | 262656 | 154572 | 283475 | | | |
| 65C-19400-1700-OP | 3.7 | 7.0 | 413679 | 98745 | 103916 | - | - | - | - | - | - | 191640 | 101061 | 138024 | 232097 | 131744 | 220885 | 272553 | 161930 | 303746 | 313009 | 191857 | 386606 | | | |
| 65C-19400-1800-OP | 3.3 | 6.0 | 412775 | 98360 | 103406 | - | - | - | 184991 | 95928 | 124405 | 230347 | 130433 | 217301 | 275702 | 164265 | 310197 | 321058 | 197752 | 403093 | 366414 | 230883 | 495989 | | | |
| 80C-18700-1800-OP | 2.9 | 6.0 | 421193 | 70962 | 70962 | 230234 | 117315 | 143844 | 285934 | 159912 | 257927 | 341634 | 201584 | 372010 | 397334 | 242845 | 486093 | 453034 | 283590 | 600175 | 508734 | 324193 | 714258 | | | |
| 80C-19700-1800-OP | 3.4 | 6.0 | 515287 | 95508 | 95508 | - | - | - | 256971 | 127405 | 142511 | 312671 | 170485 | 256594 | 368371 | 212427 | 370677 | 424071 | 253868 | 484760 | 479771 | 294993 | 598842 | | | |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 41. Models 50C-18600-1100-OP to 80C-19700-1800-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|-------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 50C-18600-1100-OP | 6.8 | 10.0 | 370358 | 84384 | 86467 | - | - | - | 141618 | 49289 | 49289 | 212938 | 119646 | 195364 | 248598 | 146315 | 268401 | 319917 | 198921 | 414475 |
| 50C-18600-1200-OP | 5.8 | 10.4 | 369733 | 84111 | 86114 | 146289 | 58857 | 58857 | 188728 | 101298 | 145777 | 273604 | 164874 | 319617 | 316042 | 196093 | 406538 | - | - | - |
| 50C-18600-1300-OP | 5.1 | 8.9 | 369053 | 83813 | 85731 | 190127 | 102369 | 148644 | 239933 | 139859 | 250655 | - | - | - | - | - | - | - | - | - |
| 50C-18600-1450-OP | 4.2 | 7.2 | 367931 | 83321 | 85099 | 262460 | 156611 | 296793 | 324423 | 202208 | 423703 | - | - | - | - | - | - | - | - | - |
| 65C-18400-1600-OP | 3.5 | 8.0 | 347551 | 81904 | 85534 | 320446 | 202673 | 439033 | 392119 | 254804 | 585831 | - | - | - | - | - | - | - | - | - |
| 65C-18400-1700-OP | 3.2 | 7.0 | 346698 | 81539 | 85053 | 375418 | 242674 | 551626 | - | - | - | - | - | - | - | - | - | - | - | - |
| 65C-18400-1800-OP | 2.9 | 6.0 | 345794 | 81151 | 84544 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 65C-19400-1600-OP | 4.1 | 8.0 | 414531 | 99107 | 104396 | 298492 | 181156 | 356874 | 370165 | 233620 | 503673 | - | - | - | - | - | - | - | - | - |
| 65C-19400-1700-OP | 3.7 | 7.0 | 413679 | 98745 | 103916 | 353465 | 221434 | 469467 | 434377 | 280356 | 635189 | - | - | - | - | - | - | - | - | - |
| 65C-19400-1800-OP | 3.3 | 6.0 | 412775 | 98360 | 103406 | 411769 | 263909 | 588885 | - | - | - | - | - | - | - | - | - | - | - | - |
| 80C-18700-1800-OP | 2.9 | 6.0 | 421193 | 70962 | 70962 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 80C-19700-1800-OP | 3.4 | 6.0 | 515287 | 95508 | 95508 | 535471 | 335701 | 712925 | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Symmetric Yoke Design, Spring to Close

Table 42. Models 0.3S-008A-100-CL to 0.9S-0350-435-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | | | | |
| | | | BTC | RTC | ETC | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 0.3S-008A-100-CL | 4.4 | 12.0 | 246 | 108 | 130 | - | - | - | - | - | - | - | - | - | 168 | 54 | 54 | 205 | 87 | 96 | 241 | 112 | 138 |
| 0.3S-008A-135-CL | 2.7 | 12.0 | 238 | 103 | 121 | 231 | 105 | 126 | 298 | 149 | 203 | 365 | 192 | 280 | 432 | 235 | 356 | 499 | 278 | 433 | 566 | 321 | 510 |
| 0.3S-008B-100-CL | 6.2 | 12.0 | 381 | 143 | 143 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3S-008B-135-CL | 3.7 | 12.0 | 373 | 134 | 134 | - | - | - | - | - | - | 352 | 130 | 130 | 420 | 183 | 207 | 487 | 228 | 284 | 554 | 272 | 360 |
| 0.3S-008C-100-CL | 7.2 | 12.0 | 458 | 177 | 181 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3S-008C-135-CL | 4.2 | 12.0 | 450 | 171 | 172 | - | - | - | - | - | - | - | - | - | 382 | 118 | 118 | 449 | 185 | 194 | 516 | 231 | 271 |
| 0.3S-008C-175-CL | 2.8 | 12.0 | 440 | 161 | 161 | 445 | 182 | 190 | 558 | 259 | 318 | 670 | 333 | 447 | 783 | 406 | 576 | 896 | 478 | 705 | 1009 | 550 | 834 |
| 0.3S-0100-135-CL | 6.4 | 12.0 | 731 | 307 | 350 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3S-0100-175-CL | 4.0 | 12.0 | 721 | 301 | 339 | - | - | - | - | - | - | - | - | - | 608 | 244 | 248 | 721 | 322 | 377 | 833 | 397 | 506 |
| 0.3S-0100-235-CL | 2.5 | 8.4 | 705 | 290 | 322 | 798 | 374 | 466 | 1001 | 507 | 698 | 1205 | 638 | 931 | 1408 | 768 | 1163 | 1611 | 898 | 1395 | 1814 | 1027 | 1628 |
| 0.3S-0150-175-CL | 4.9 | 12.0 | 907 | 419 | 539 | - | - | - | - | - | - | - | - | - | - | - | - | 523 | 151 | 151 | 636 | 264 | 280 |
| 0.3S-0150-235-CL | 3.0 | 8.9 | 891 | 410 | 523 | - | - | - | 804 | 378 | 472 | 1007 | 510 | 704 | 1210 | 641 | 937 | 1413 | 771 | 1169 | 1616 | 901 | 1402 |
| 0.9S-0200-235-CL | 3.3 | 12.0 | 1192 | 544 | 688 | - | - | - | 846 | 346 | 359 | 1081 | 506 | 628 | 1316 | 659 | 897 | 1551 | 811 | 1165 | 1786 | 962 | 1434 |
| 0.9S-0200-280-CL | 2.5 | 12.0 | 1175 | 533 | 669 | 1186 | 574 | 748 | 1519 | 791 | 1129 | 1853 | 1005 | 1511 | 2187 | 1218 | 1892 | 2520 | 1430 | 2274 | 2854 | 1643 | 2655 |
| 0.9S-0200-335-CL | 1.9 | 9.6 | 1162 | 525 | 655 | 2037 | 1122 | 1721 | 2514 | 1427 | 2267 | 2992 | 1731 | 2813 | 3469 | 2034 | 3359 | 3947 | 2337 | 3905 | 4424 | 2640 | 4451 |
| 0.9S-0250-235-CL | 3.9 | 12.0 | 1426 | 691 | 940 | - | - | - | - | - | - | 833 | 337 | 344 | 1068 | 497 | 613 | 1303 | 651 | 882 | 1538 | 803 | 1150 |
| 0.9S-0250-280-CL | 2.9 | 12.0 | 1408 | 680 | 921 | 938 | 410 | 464 | 1271 | 630 | 846 | 1605 | 846 | 1227 | 1939 | 1059 | 1609 | 2272 | 1272 | 1990 | 2606 | 1485 | 2372 |
| 0.9S-0250-335-CL | 2.2 | 9.9 | 1395 | 671 | 907 | 1789 | 964 | 1437 | 2266 | 1269 | 1983 | 2744 | 1573 | 2529 | 3221 | 1876 | 3076 | 3699 | 2180 | 3622 | 4176 | 2483 | 4168 |
| 0.9S-0350-280-CL | 4.2 | 12.0 | 2271 | 1049 | 1345 | - | - | - | - | - | - | - | - | - | 1520 | 608 | 614 | 1853 | 839 | 996 | 2187 | 1059 | 1377 |
| 0.9S-0350-335-CL | 3.1 | 10.8 | 2258 | 1041 | 1331 | - | - | - | 1848 | 835 | 989 | 2325 | 1149 | 1535 | 2803 | 1458 | 2081 | 3280 | 1765 | 2627 | 3758 | 2070 | 3174 |
| 0.9S-0350-385-CL | 2.5 | 8.2 | 2242 | 1031 | 1315 | 2274 | 1116 | 1477 | 2905 | 1524 | 2198 | 3536 | 1928 | 2920 | 4166 | 2331 | 3641 | 4797 | 2733 | 4362 | 5428 | 3134 | 5083 |
| 0.9S-0350-435-CL | 2.1 | 6.4 | 2230 | 1023 | 1301 | 3309 | 1783 | 2661 | 4114 | 2298 | 3581 | 4919 | 2811 | 4502 | 5724 | 3323 | 5423 | 6530 | 3834 | 6344 | 7335 | 4345 | 7265 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 43. Models 0.3S-008A-100-CL to 0.9S-0350-435-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | BTC | RTC | ETC | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 0.3S-008A-100-CL | 4.4 | 12.0 | 246 | 108 | 130 | 278 | 136 | 180 | 352 | 184 | 264 | 499 | 278 | 433 | 573 | 325 | 517 | 720 | 419 | 685 |
| 0.3S-008A-135-CL | 2.7 | 12.0 | 238 | 103 | 121 | 634 | 364 | 587 | 768 | 449 | 740 | 1036 | 619 | 1047 | 1170 | 704 | 1200 | 1438 | 875 | 1507 |
| 0.3S-008B-100-CL | 6.2 | 12.0 | 381 | 143 | 143 | - | - | - | 339 | 115 | 115 | 486 | 228 | 283 | 560 | 276 | 367 | 707 | 371 | 536 |
| 0.3S-008B-135-CL | 3.7 | 12.0 | 373 | 134 | 134 | 621 | 315 | 437 | 755 | 402 | 590 | 1023 | 573 | 897 | 1157 | 659 | 1051 | 1425 | 829 | 1357 |
| 0.3S-008C-100-CL | 7.2 | 12.0 | 458 | 177 | 181 | - | - | - | - | - | - | 449 | 185 | 194 | 522 | 235 | 278 | 670 | 332 | 446 |
| 0.3S-008C-135-CL | 4.2 | 12.0 | 450 | 171 | 172 | 583 | 276 | 348 | 717 | 363 | 501 | 986 | 536 | 808 | 1120 | 621 | 961 | 1388 | 792 | 1268 |
| 0.3S-008C-175-CL | 2.8 | 12.0 | 440 | 161 | 161 | 1121 | 622 | 963 | 1347 | 766 | 1221 | 1797 | 1052 | 1736 | 2023 | 1195 | 1994 | 2473 | 1482 | 2509 |
| 0.3S-0100-135-CL | 6.4 | 12.0 | 731 | 307 | 350 | - | - | - | 542 | 173 | 173 | 811 | 382 | 480 | 945 | 470 | 633 | 1213 | 643 | 940 |
| 0.3S-0100-175-CL | 4.0 | 12.0 | 721 | 301 | 339 | 946 | 471 | 635 | 1171 | 616 | 893 | 1622 | 905 | 1408 | 1848 | 1048 | 1666 | 2298 | 1335 | 2182 |
| 0.3S-0100-235-CL | 2.5 | 8.4 | 705 | 290 | 322 | 2017 | 1156 | 1860 | 2424 | 1415 | 2325 | - | - | - | - | - | - | - | - | - |
| 0.3S-0150-175-CL | 4.9 | 12.0 | 907 | 419 | 539 | 748 | 341 | 409 | 974 | 489 | 667 | 1424 | 778 | 1182 | 1650 | 922 | 1440 | 2101 | 1209 | 1955 |
| 0.3S-0150-235-CL | 3.0 | 8.9 | 891 | 410 | 523 | 1820 | 1031 | 1634 | 2226 | 1289 | 2099 | - | - | - | - | - | - | - | - | - |
| 0.9S-0200-235-CL | 3.3 | 12.0 | 1192 | 544 | 688 | 2021 | 1112 | 1703 | 2491 | 1412 | 2240 | 3431 | 2009 | 3315 | 3901 | 2308 | 3853 | 4841 | 2905 | 4928 |
| 0.9S-0200-280-CL | 2.5 | 12.0 | 1175 | 533 | 669 | 3187 | 1855 | 3037 | 3854 | 2278 | 3800 | 5189 | 3126 | 5326 | 5856 | 3549 | 6089 | 7190 | 4395 | 7615 |
| 0.9S-0200-335-CL | 1.9 | 9.6 | 1162 | 525 | 655 | 4902 | 2943 | 4998 | 5857 | 3549 | 6090 | 7767 | 4761 | 8274 | - | - | - | - | - | - |
| 0.9S-0250-235-CL | 3.9 | 12.0 | 1426 | 691 | 940 | 1773 | 953 | 1419 | 2243 | 1254 | 1957 | 3183 | 1852 | 3032 | 3653 | 2150 | 3569 | 4593 | 2747 | 4644 |
| 0.9S-0250-280-CL | 2.9 | 12.0 | 1408 | 680 | 921 | 2939 | 1697 | 2753 | 3606 | 2121 | 3516 | 4941 | 2968 | 5042 | 5608 | 3392 | 5805 | 6942 | 4238 | 7331 |
| 0.9S-0250-335-CL | 2.2 | 9.9 | 1395 | 671 | 907 | 4654 | 2786 | 4714 | 5609 | 3392 | 5806 | 7519 | 4604 | 7991 | - | - | - | - | - | - |
| 0.9S-0350-280-CL | 4.2 | 12.0 | 2271 | 1049 | 1345 | 2521 | 1276 | 1759 | 3188 | 1705 | 2522 | 4522 | 2558 | 4048 | 5189 | 2982 | 4811 | 6524 | 3830 | 6337 |
| 0.9S-0350-335-CL | 3.1 | 10.8 | 2258 | 1041 | 1331 | 4235 | 2375 | 3720 | 5190 | 2983 | 4812 | 7100 | 4196 | 6996 | 8055 | 4803 | 8089 | - | - | - |
| 0.9S-0350-385-CL | 2.5 | 8.2 | 2242 | 1031 | 1315 | 6058 | 3535 | 5805 | 7320 | 4336 | 7247 | - | - | - | - | - | - | - | - | - |
| 0.9S-0350-435-CL | 2.1 | 6.4 | 2230 | 1023 | 1301 | 8140 | 4856 | 8185 | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 44. Models 0.9S-0350-485-CL to 1.5S-0800-485-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 0.9S-0350-485-CL | 1.8 | 5.1 | 2222 | 1018 | 1293 | 4476 | 2528 | 3995 | 5477 | 3165 | 5140 | 6478 | 3801 | 6285 | 7479 | 4436 | 7429 | 8479 | 5072 | 8574 | - | - | - |
| 0.9S-0400-280-CL | 4.9 | 12.0 | 2676 | 1302 | 1782 | - | - | - | - | - | - | - | - | - | - | - | - | 1423 | 504 | 504 | 1757 | 774 | 885 |
| 0.9S-0400-335-CL | 3.6 | 11.2 | 2663 | 1294 | 1767 | - | - | - | - | - | - | 1895 | 866 | 1043 | 2373 | 1180 | 1589 | 2850 | 1489 | 2136 | 3328 | 1795 | 2682 |
| 0.9S-0400-385-CL | 2.8 | 8.5 | 2647 | 1284 | 1751 | 1844 | 832 | 985 | 2475 | 1246 | 1706 | 3106 | 1653 | 2428 | 3736 | 2056 | 3149 | 4367 | 2459 | 3870 | 4998 | 2860 | 4592 |
| 0.9S-0400-435-CL | 2.3 | 6.7 | 2635 | 1276 | 1737 | 2879 | 1507 | 2169 | 3684 | 2023 | 3090 | 4489 | 2537 | 4010 | 5294 | 3049 | 4931 | 6100 | 3561 | 5852 | 6905 | 4072 | 6773 |
| 0.9S-0400-485-CL | 2.0 | 5.4 | 2627 | 1272 | 1729 | 4046 | 2254 | 3503 | 5047 | 2892 | 4648 | 6048 | 3528 | 5793 | 7049 | 4163 | 6937 | 8049 | 4799 | 8082 | - | - | - |
| 0.9S-0420-335-CL | 3.8 | 11.8 | 2899 | 1447 | 2043 | - | - | - | - | - | - | 1623 | 691 | 754 | 2101 | 1010 | 1300 | 2578 | 1320 | 1846 | 3056 | 1627 | 2393 |
| 0.9S-0420-385-CL | 3.0 | 8.8 | 2883 | 1438 | 2026 | - | - | - | 2203 | 1077 | 1417 | 2834 | 1485 | 2139 | 3464 | 1889 | 2860 | 4095 | 2292 | 3581 | 4726 | 2694 | 4302 |
| 0.9S-0420-435-CL | 2.5 | 6.9 | 2871 | 1430 | 2013 | 2607 | 1339 | 1880 | 3412 | 1856 | 2800 | 4217 | 2370 | 3721 | 5023 | 2882 | 4642 | 5828 | 3394 | 5563 | 6633 | 3905 | 6484 |
| 0.9S-0420-485-CL | 2.1 | 5.6 | 2863 | 1425 | 2005 | 3774 | 2087 | 3214 | 4775 | 2725 | 4359 | 5776 | 3361 | 5504 | 6777 | 3997 | 6648 | 7777 | 4632 | 7793 | 8778 | 5268 | 8938 |
| 0.9S-0700-335-CL | 4.8 | 12.0 | 3795 | 1802 | 2392 | - | - | - | - | - | - | - | - | - | - | - | - | 2235 | 823 | 823 | 2712 | 1195 | 1369 |
| 0.9S-0700-385-CL | 3.7 | 9.1 | 3780 | 1792 | 2375 | - | - | - | - | - | - | 2490 | 1043 | 1115 | 3121 | 1468 | 1836 | 3751 | 1880 | 2558 | 4382 | 2288 | 3279 |
| 0.9S-0700-435-CL | 3.0 | 7.1 | 3767 | 1784 | 2362 | - | - | - | 3069 | 1434 | 1777 | 3874 | 1959 | 2698 | 4679 | 2478 | 3619 | 5484 | 2994 | 4539 | 6289 | 3508 | 5460 |
| 0.9S-0700-485-CL | 2.6 | 5.7 | 3760 | 1780 | 2353 | 3431 | 1671 | 2191 | 4431 | 2319 | 3335 | 5432 | 2961 | 4480 | 6433 | 3600 | 5625 | 7434 | 4238 | 6769 | 8435 | 4874 | 7914 |
| 0.9S-0720-385-CL | 4.3 | 9.7 | 4435 | 2200 | 3081 | - | - | - | - | - | - | - | - | - | 2424 | 997 | 1040 | 3055 | 1425 | 1761 | 3686 | 1838 | 2483 |
| 0.9S-0720-435-CL | 3.5 | 7.6 | 4423 | 2192 | 3068 | - | - | - | - | - | - | 3178 | 1505 | 1901 | 3983 | 2030 | 2822 | 4788 | 2548 | 3743 | 5593 | 3064 | 4664 |
| 0.9S-0720-485-CL | 2.9 | 6.1 | 4415 | 2188 | 3059 | 2734 | 1210 | 1394 | 3735 | 1870 | 2539 | 4736 | 2515 | 3684 | 5737 | 3156 | 4828 | 6738 | 3794 | 5973 | 7739 | 4432 | 7118 |
| 1.5S-0800-385-CL | 3.6 | 10.3 | 4268 | 2090 | 2540 | - | - | - | - | - | - | 4124 | 1448 | 1472 | 4989 | 2000 | 2307 | 5854 | 2528 | 3141 | 6719 | 3047 | 3976 |
| 1.5S-0800-435-CL | 3.0 | 8.1 | 4254 | 2080 | 2522 | - | - | - | 4918 | 1956 | 2238 | 6022 | 2629 | 3303 | 7127 | 3290 | 4369 | 8231 | 3946 | 5435 | 9336 | 4599 | 6500 |
| 1.5S-0800-485-CL | 2.5 | 6.5 | 4245 | 2073 | 2511 | 5414 | 2260 | 2717 | 6787 | 3088 | 4041 | 8160 | 3904 | 5366 | 9533 | 4716 | 6691 | 10906 | 5525 | 8015 | 12279 | 6332 | 9340 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 45. Models 0.9S-0350-485-CL to 1.5S-0800-485-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|-------|-------|------|------|-------|------|------|-------|------|-------|------|------|------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 0.9S-0350-485-CL | 1.8 | 5.1 | 2222 | 1018 | 1293 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0400-280-CL | 4.9 | 12.0 | 2676 | 1302 | 1782 | 2091 | 996 | 1267 | 2758 | 1429 | 2030 | 4092 | 2284 | 3556 | 4759 | 2709 | 4319 | 6094 | 3557 | 5845 |
| 0.9S-0400-335-CL | 3.6 | 11.2 | 2663 | 1294 | 1767 | 3805 | 2100 | 3228 | 4760 | 2709 | 4320 | 6670 | 3923 | 6505 | 7625 | 4530 | 7597 | - | - | - |
| 0.9S-0400-385-CL | 2.8 | 8.5 | 2647 | 1284 | 1751 | 5628 | 3262 | 5313 | 6890 | 4062 | 6756 | - | - | - | - | - | - | - | - | - |
| 0.9S-0400-435-CL | 2.3 | 6.7 | 2635 | 1276 | 1737 | 7710 | 4583 | 7694 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0400-485-CL | 2.0 | 5.4 | 2627 | 1272 | 1729 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0420-335-CL | 3.8 | 11.8 | 2899 | 1447 | 2043 | 3533 | 1933 | 2939 | 4488 | 2542 | 4031 | 6398 | 3757 | 6215 | 7353 | 4363 | 7308 | - | - | - |
| 0.9S-0420-385-CL | 3.0 | 8.8 | 2883 | 1438 | 2026 | 5356 | 3095 | 5024 | 6618 | 3896 | 6466 | - | - | - | - | - | - | - | - | - |
| 0.9S-0420-435-CL | 2.5 | 6.9 | 2871 | 1430 | 2013 | 7438 | 4417 | 7404 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0420-485-CL | 2.1 | 5.6 | 2863 | 1425 | 2005 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0700-335-CL | 4.8 | 12.0 | 3795 | 1802 | 2392 | 3190 | 1513 | 1915 | 4145 | 2134 | 3007 | 6055 | 3359 | 5192 | 7010 | 3967 | 6284 | 8920 | 5183 | 8469 |
| 0.9S-0700-385-CL | 3.7 | 9.1 | 3780 | 1792 | 2375 | 5013 | 2692 | 4000 | 6274 | 3499 | 5443 | 8797 | 5105 | 8328 | - | - | - | - | - | - |
| 0.9S-0700-435-CL | 3.0 | 7.1 | 3767 | 1784 | 2362 | 7094 | 4021 | 6381 | 8705 | 5046 | 8223 | - | - | - | - | - | - | - | - | - |
| 0.9S-0700-485-CL | 2.6 | 5.7 | 3760 | 1780 | 2353 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0720-385-CL | 4.3 | 9.7 | 4435 | 2200 | 3081 | 4316 | 2245 | 3204 | 5578 | 3054 | 4647 | 8101 | 4662 | 7532 | - | - | - | - | - | - |
| 0.9S-0720-435-CL | 3.5 | 7.6 | 4423 | 2192 | 3068 | 6398 | 3578 | 5585 | 8008 | 4603 | 7426 | - | - | - | - | - | - | - | - | - |
| 0.9S-0720-485-CL | 2.9 | 6.1 | 4415 | 2188 | 3059 | 8739 | 5068 | 8262 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-0800-385-CL | 3.6 | 10.3 | 4268 | 2090 | 2540 | 7584 | 3563 | 4811 | 9315 | 4587 | 6480 | 12776 | 6624 | 9819 | 14506 | 7641 | 11489 | - | - | - |
| 1.5S-0800-435-CL | 3.0 | 8.1 | 4254 | 2080 | 2522 | 10440 | 5250 | 7566 | 12649 | 6550 | 9697 | - | - | - | - | - | - | - | - | - |
| 1.5S-0800-485-CL | 2.5 | 6.5 | 4245 | 2073 | 2511 | 13652 | 7139 | 10665 | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 46. Models 1.5S-0800-535-CL to 1.5S-1300-585-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|-------|------|-------|-------|------|-------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 1.5S-0800-535-CL | 2.1 | 5.3 | 4243 | 2072 | 2508 | 7198 | 3333 | 4438 | 8868 | 4323 | 6050 | 10539 | 5309 | 7661 | 12210 | 6292 | 9273 | 13880 | 7273 | 10885 | - | - | - |
| 1.5S-1100-385-CL | 5.0 | 10.9 | 6209 | 3024 | 3643 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5632 | 1742 | 1742 |
| 1.5S-1100-435-CL | 4.0 | 8.5 | 6195 | 3014 | 3625 | - | - | - | - | - | - | - | - | - | 6039 | 2109 | 2135 | 7144 | 2819 | 3201 | 8248 | 3497 | 4266 |
| 1.5S-1100-485-CL | 3.3 | 6.8 | 6186 | 3008 | 3614 | - | - | - | 5699 | 1808 | 1808 | 7072 | 2775 | 3132 | 8445 | 3616 | 4457 | 9818 | 4442 | 5782 | 11191 | 5260 | 7106 |
| 1.5S-1100-535-CL | 2.8 | 5.6 | 6184 | 3006 | 3611 | 6110 | 2157 | 2204 | 7781 | 3212 | 3816 | 9452 | 4222 | 5428 | 11122 | 5219 | 7040 | 12793 | 6209 | 8651 | 14464 | 7196 | 10263 |
| 1.5S-1100-585-CL | 2.5 | 4.5 | 6155 | 2986 | 3574 | 8039 | 3369 | 4065 | 10036 | 4572 | 5992 | 12034 | 5759 | 7919 | 14031 | 6940 | 9846 | - | - | - | - | - | - |
| 1.5S-1200-385-CL | 5.7 | 11.6 | 7216 | 3730 | 4969 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1200-435-CL | 4.6 | 9.1 | 7202 | 3720 | 4951 | - | - | - | - | - | - | - | - | - | - | - | - | 5836 | 1973 | 1973 | 6940 | 2707 | 3039 |
| 1.5S-1200-485-CL | 3.8 | 7.3 | 7193 | 3714 | 4940 | - | - | - | - | - | - | 5765 | 1905 | 1905 | 7138 | 2830 | 3230 | 8511 | 3670 | 4554 | 9884 | 4494 | 5879 |
| 1.5S-1200-535-CL | 3.2 | 6.0 | 7191 | 3713 | 4937 | - | - | - | 6473 | 2412 | 2588 | 8144 | 3447 | 4200 | 9814 | 4453 | 5812 | 11485 | 5447 | 7424 | 13156 | 6436 | 9036 |
| 1.5S-1200-585-CL | 2.8 | 5.0 | 7162 | 3693 | 4901 | 6731 | 2576 | 2837 | 8728 | 3801 | 4764 | 10726 | 4996 | 6692 | 12724 | 6181 | 8619 | 14721 | 7360 | 10546 | - | - | - |
| 1.5S-1300-385-CL | 6.7 | 12.0 | 8556 | 4458 | 6015 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1300-435-CL | 5.4 | 9.5 | 8542 | 4448 | 5997 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5909 | 1470 | 1470 |
| 1.5S-1300-485-CL | 4.4 | 7.8 | 8533 | 4442 | 5986 | - | - | - | - | - | - | - | - | - | 6106 | 1661 | 1661 | 7479 | 2784 | 2985 | 8852 | 3641 | 4310 |
| 1.5S-1300-535-CL | 3.7 | 6.3 | 8531 | 4440 | 5983 | - | - | - | - | - | - | 7112 | 2545 | 2631 | 8783 | 3599 | 4243 | 10454 | 4612 | 5855 | 12124 | 5611 | 7467 |
| 1.5S-1300-585-CL | 3.2 | 5.3 | 8502 | 4421 | 5947 | - | - | - | 7697 | 2923 | 3196 | 9695 | 4154 | 5123 | 11692 | 5353 | 7050 | 13690 | 6540 | 8977 | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 47. Models 1.5S-0800-535-CL to 1.5S-1300-585-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|-------|-------|------|------|-------|------|-------|-------|------|------|-------|------|------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 1.5S-0800-535-CL | 2.1 | 5.3 | 4243 | 2072 | 2508 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1100-385-CL | 5.0 | 10.9 | 6209 | 3024 | 3643 | 6497 | 2411 | 2577 | 8227 | 3484 | 4247 | 11688 | 5555 | 7585 | 13418 | 6579 | 9255 | - | - | - |
| 1.5S-1100-435-CL | 4.0 | 8.5 | 6195 | 3014 | 3625 | 9353 | 4163 | 5332 | 11562 | 5480 | 7463 | - | - | - | - | - | - | - | - | - |
| 1.5S-1100-485-CL | 3.3 | 6.8 | 6186 | 3008 | 3614 | 12564 | 6074 | 8431 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1100-535-CL | 2.8 | 5.6 | 6184 | 3006 | 3611 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1100-585-CL | 2.5 | 4.5 | 6155 | 2986 | 3574 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1200-385-CL | 5.7 | 11.6 | 7216 | 3730 | 4969 | 5189 | 1350 | 1350 | 6920 | 2694 | 3019 | 10380 | 4790 | 6358 | 12111 | 5818 | 8027 | - | - | - |
| 1.5S-1200-435-CL | 4.6 | 9.1 | 7202 | 3720 | 4951 | 8045 | 3387 | 4105 | 10254 | 4715 | 6236 | 14672 | 7331 | 10498 | - | - | - | - | - | - |
| 1.5S-1200-485-CL | 3.8 | 7.3 | 7193 | 3714 | 4940 | 11257 | 5311 | 7204 | 14003 | 6936 | 9853 | - | - | - | - | - | - | - | - | - |
| 1.5S-1200-535-CL | 3.2 | 6.0 | 7191 | 3713 | 4937 | 14826 | 7422 | 10648 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1200-585-CL | 2.8 | 5.0 | 7162 | 3693 | 4901 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1300-385-CL | 6.7 | 12.0 | 8556 | 4458 | 6015 | - | - | - | 5888 | 1450 | 1450 | 9349 | 3944 | 4789 | 11079 | 4987 | 6459 | 14540 | 7044 | 9798 |
| 1.5S-1300-435-CL | 5.4 | 9.5 | 8542 | 4448 | 5997 | 7013 | 2479 | 2536 | 9222 | 3867 | 4667 | 13640 | 6511 | 8930 | - | - | - | - | - | - |
| 1.5S-1300-485-CL | 4.4 | 7.8 | 8533 | 4442 | 5986 | 10225 | 4474 | 5635 | 12971 | 6114 | 8284 | - | - | - | - | - | - | - | - | - |
| 1.5S-1300-535-CL | 3.7 | 6.3 | 8531 | 4440 | 5983 | 13795 | 6603 | 9079 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1300-585-CL | 3.2 | 5.3 | 8502 | 4421 | 5947 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 48. Models 3S-2000-385-CL to 14S-5100-885-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | BTC | RTC | ETC | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 3S-2000-385-CL | 5.2 | 12.0 | 10845 | 5668 | 7860 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7318 | 2301 | 2301 |
| 3S-2000-435-CL | 4.2 | 10.6 | 10821 | 5652 | 7831 | - | - | - | - | - | - | - | - | - | 7984 | 2891 | 2962 | 9788 | 4051 | 4753 | 11592 | 5163 | 6544 |
| 3S-2000-485-CL | 3.5 | 8.5 | 10806 | 5642 | 7812 | - | - | - | - | - | - | 9672 | 3978 | 4637 | 11915 | 5360 | 6864 | 14158 | 6718 | 9090 | 16401 | 8066 | 11317 |
| 3S-2000-535-CL | 2.9 | 7.0 | 10802 | 5640 | 7808 | 8100 | 2970 | 3077 | 10829 | 4696 | 5786 | 13558 | 6356 | 8495 | 16288 | 7999 | 11205 | 19017 | 9633 | 13914 | 21746 | 11262 | 16623 |
| 3S-2000-585-CL | 2.6 | 5.8 | 10754 | 5608 | 7748 | 11250 | 4954 | 6204 | 14514 | 6933 | 9444 | 17777 | 8891 | 12683 | 21040 | 10841 | 15922 | 24303 | 12787 | 19161 | 27566 | 14729 | 22400 |
| 3S-2050-385-CL | 6.8 | 12.0 | 14732 | 7224 | 9059 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3S-2050-435-CL | 5.4 | 10.8 | 14708 | 7208 | 9030 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10410 | 2158 | 2158 |
| 3S-2050-485-CL | 4.5 | 8.8 | 14693 | 7198 | 9011 | - | - | - | - | - | - | - | - | - | 10732 | 2478 | 2478 | 12975 | 4643 | 4704 | 15218 | 6105 | 6931 |
| 3S-2050-535-CL | 3.8 | 7.0 | 14689 | 7196 | 9007 | - | - | - | - | - | - | 12376 | 4109 | 4109 | 15105 | 6034 | 6819 | 17835 | 7733 | 9528 | 20564 | 9399 | 12237 |
| 3S-2050-585-CL | 3.2 | 6.0 | 14641 | 7163 | 8947 | - | - | - | 13331 | 4885 | 5058 | 16594 | 6966 | 8297 | 19858 | 8970 | 11536 | 23121 | 10946 | 14775 | 26384 | 12909 | 18014 |
| 6S-2500-485-CL | 4.1 | 12.0 | 15533 | 8240 | 11721 | - | - | - | - | - | - | - | - | - | 11337 | 4320 | 4637 | 13955 | 5972 | 7245 | 16572 | 7576 | 9853 |
| 6S-2500-535-CL | 3.5 | 11.3 | 15529 | 8238 | 11716 | - | - | - | - | - | - | 13255 | 5538 | 6548 | 16440 | 7496 | 9722 | 19625 | 9425 | 12896 | 22810 | 11342 | 16070 |
| 6S-2500-585-CL | 3.0 | 9.4 | 15473 | 8200 | 11646 | - | - | - | 14370 | 6229 | 7659 | 18178 | 8551 | 11454 | 21986 | 10846 | 15248 | 25795 | 13130 | 19043 | 29603 | 15407 | 22838 |
| 6S-2500-635-CL | 2.6 | 8.0 | 15411 | 8159 | 11570 | 14567 | 6350 | 7855 | 19054 | 9080 | 12326 | 23541 | 11779 | 16797 | 28028 | 14466 | 21268 | 32515 | 17146 | 25739 | 37001 | 19822 | 30211 |
| 6S-2500-685-CL | 2.3 | 6.9 | 15345 | 8115 | 11487 | 18900 | 8987 | 12173 | 24121 | 12127 | 17376 | 29343 | 15252 | 22579 | 34564 | 18368 | 27782 | 39785 | 21481 | 32985 | 45007 | 24590 | 38188 |
| 6S-2500-735-CL | 2.1 | 6.0 | 15273 | 8067 | 11399 | 23561 | 11792 | 16818 | 29573 | 15389 | 22808 | 35584 | 18976 | 28798 | 41596 | 22559 | 34788 | 47607 | 26138 | 40779 | 53618 | 29716 | 46769 |
| 6S-3800-535-CL | 4.5 | 12.0 | 21051 | 11605 | 17481 | - | - | - | - | - | - | - | - | - | - | - | - | 13940 | 5571 | 6285 | 17125 | 7553 | 9458 |
| 6S-3800-585-CL | 3.9 | 10.2 | 20994 | 11568 | 17411 | - | - | - | - | - | - | 12493 | 4634 | 4843 | 16301 | 7046 | 8637 | 20109 | 9371 | 12432 | 23917 | 11670 | 16227 |
| 6S-3800-635-CL | 3.4 | 8.6 | 20933 | 11527 | 17335 | - | - | - | 13368 | 5206 | 5715 | 17855 | 8000 | 10186 | 22342 | 10721 | 14657 | 26829 | 13420 | 19128 | 31316 | 16106 | 23600 |
| 6S-3800-685-CL | 3.0 | 7.4 | 20866 | 11483 | 17253 | - | - | - | 18436 | 8354 | 10765 | 23657 | 11514 | 15968 | 28878 | 14648 | 21171 | 34100 | 17770 | 26374 | 39321 | 20886 | 31576 |
| 6S-3800-735-CL | 2.6 | 6.5 | 20795 | 11436 | 17164 | 17876 | 8012 | 10207 | 23887 | 11652 | 16197 | 29898 | 15259 | 22187 | 35910 | 18852 | 28177 | 41921 | 22437 | 34168 | 47933 | 26019 | 40158 |
| 6S-3900-535-CL | 2.8 | 12.0 | 22472 | 12585 | 19397 | - | - | - | - | - | - | - | - | - | 8865 | 1369 | 1369 | 12050 | 4407 | 4543 | 15235 | 6443 | 7717 |
| 6S-3900-585-CL | 2.5 | 10.3 | 22415 | 12548 | 19327 | - | - | - | - | - | - | 10603 | 3101 | 3101 | 14411 | 5928 | 6896 | 18220 | 8276 | 10690 | 22028 | 10583 | 14485 |
| 6S-3900-635-CL | 2.2 | 8.8 | 22354 | 12507 | 19251 | - | - | - | 11479 | 3973 | 3973 | 15966 | 6895 | 8445 | 20453 | 9632 | 12916 | 24940 | 12335 | 17387 | 29426 | 15026 | 21858 |
| 6S-3900-685-CL | 2.0 | 7.5 | 22287 | 12463 | 19169 | 11325 | 3820 | 3820 | 16546 | 7252 | 9023 | 21768 | 10426 | 14226 | 26989 | 13565 | 19429 | 32210 | 16689 | 24632 | 37432 | 19807 | 29835 |
| 6S-3900-735-CL | 1.8 | 6.5 | 22216 | 12416 | 19080 | 15986 | 6908 | 8465 | 21998 | 10565 | 14455 | 28009 | 14176 | 20445 | 34021 | 17771 | 26436 | 40032 | 21358 | 32426 | 46043 | 24940 | 38416 |
| 14S-5100-635-CL | 3.6 | 12.0 | 24596 | 13852 | 21159 | - | - | - | - | - | - | 17907 | 7250 | 8445 | 22885 | 10264 | 13248 | 27863 | 13230 | 18050 | 32840 | 16174 | 22853 |
| 14S-5100-685-CL | 3.2 | 12.0 | 24524 | 13804 | 21067 | - | - | - | 18551 | 7645 | 9066 | 24344 | 11136 | 14655 | 30136 | 14576 | 20244 | 35929 | 17996 | 25832 | 41721 | 21406 | 31421 |
| 14S-5100-735-CL | 2.8 | 10.6 | 24447 | 13752 | 20969 | 17930 | 7264 | 8467 | 24599 | 11289 | 14901 | 31268 | 15246 | 21336 | 37937 | 19179 | 27770 | 44606 | 23101 | 34204 | 51275 | 27018 | 40638 |
| 14S-5100-785-CL | 2.6 | 9.3 | 24365 | 13697 | 20864 | 23466 | 10612 | 13808 | 31073 | 15131 | 21147 | 38680 | 19616 | 28486 | 46287 | 24089 | 35826 | 53894 | 28554 | 43165 | 61501 | 33016 | 50505 |
| 14S-5100-835-CL | 2.3 | 8.2 | 24277 | 13638 | 20752 | 29365 | 14120 | 19500 | 37972 | 19199 | 27804 | 46579 | 24260 | 36108 | 55186 | 29312 | 44412 | 63793 | 34360 | 52716 | 72401 | 39404 | 61020 |
| 14S-5100-885-CL | 2.1 | 7.3 | 24184 | 13575 | 20633 | 35629 | 17820 | 25543 | 45298 | 23507 | 34871 | 54966 | 29183 | 44200 | 64635 | 34853 | 53528 | 74304 | 40518 | 62856 | 83973 | 46181 | 72185 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 49. Models 3S-2000-385-CL to 14S-5100-885-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|--------|--------|-------|-------|--------|-------|--------|
| | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | | | | |
| | | | BTC | RTC | ETC | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 3S-2000-385-CL | 5.2 | 12.0 | 10845 | 5668 | 7860 | 8732 | 3383 | 3704 | 11558 | 5142 | 6510 | 17212 | 8553 | 12122 | 20039 | 10244 | 14928 | 25692 | 13613 | 20540 |
| 3S-2000-435-CL | 4.2 | 10.6 | 10821 | 5652 | 7831 | 13397 | 6259 | 8335 | 17005 | 8429 | 11917 | 24222 | 12738 | 19081 | 27831 | 14886 | 22663 | - | - | - |
| 3S-2000-485-CL | 3.5 | 8.5 | 10806 | 5642 | 7812 | 18643 | 9410 | 13543 | 23129 | 12087 | 17996 | - | - | - | - | - | - | - | - | - |
| 3S-2000-535-CL | 2.9 | 7.0 | 10802 | 5640 | 7808 | 24475 | 12889 | 19332 | 29934 | 16138 | 24750 | - | - | - | - | - | - | - | - | - |
| 3S-2000-585-CL | 2.6 | 5.8 | 10754 | 5608 | 7748 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3S-2050-385-CL | 6.8 | 12.0 | 14732 | 7224 | 9059 | - | - | - | 10376 | 2124 | 2124 | 16030 | 6615 | 7736 | 18856 | 8359 | 10542 | 24510 | 11782 | 16154 |
| 3S-2050-435-CL | 5.4 | 10.8 | 14708 | 7208 | 9030 | 12214 | 3949 | 3949 | 15823 | 6485 | 7531 | 23040 | 10897 | 14695 | 26649 | 13067 | 18277 | - | - | - |
| 3S-2050-485-CL | 4.5 | 8.8 | 14693 | 7198 | 9011 | 17461 | 7502 | 9157 | 21947 | 10237 | 13610 | - | - | - | - | - | - | - | - | - |
| 3S-2050-535-CL | 3.8 | 7.0 | 14689 | 7196 | 9007 | 23293 | 11050 | 14946 | 28751 | 14328 | 20364 | - | - | - | - | - | - | - | - | - |
| 3S-2050-585-CL | 3.2 | 6.0 | 14641 | 7163 | 8947 | 29647 | 14864 | 21254 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6S-2500-485-CL | 4.1 | 12.0 | 15533 | 8240 | 11721 | 19190 | 9162 | 12462 | 24425 | 12309 | 17678 | 34895 | 18565 | 28111 | 40130 | 21686 | 33328 | 50600 | 27920 | 43761 |
| 6S-2500-535-CL | 3.5 | 11.3 | 15529 | 8238 | 11716 | 25995 | 13251 | 19243 | 32365 | 17057 | 25591 | 45105 | 24649 | 38286 | 51476 | 28442 | 44634 | - | - | - |
| 6S-2500-585-CL | 3.0 | 9.4 | 15473 | 8200 | 11646 | 33411 | 17680 | 26633 | 41027 | 22220 | 34222 | 56260 | 31287 | 49401 | - | - | - | - | - | - |
| 6S-2500-635-CL | 2.6 | 8.0 | 15411 | 8159 | 11570 | 41488 | 22495 | 34682 | 50462 | 27838 | 43624 | - | - | - | - | - | - | - | - | - |
| 6S-2500-685-CL | 2.3 | 6.9 | 15345 | 8115 | 11487 | 50228 | 27699 | 43391 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6S-2500-735-CL | 2.1 | 6.0 | 15273 | 8067 | 11399 | 59630 | 33291 | 52759 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6S-3800-535-CL | 4.5 | 12.0 | 21051 | 11605 | 17481 | 20310 | 9493 | 12632 | 26680 | 13330 | 18980 | 39420 | 20945 | 31675 | 45790 | 24743 | 38022 | 58530 | 32329 | 50718 |
| 6S-3800-585-CL | 3.9 | 10.2 | 20994 | 11568 | 17411 | 27725 | 13957 | 20022 | 35342 | 18513 | 27611 | 50574 | 27591 | 42790 | 58191 | 32126 | 50379 | - | - | - |
| 6S-3800-635-CL | 3.4 | 8.6 | 20933 | 11527 | 17335 | 35803 | 18788 | 28071 | 44777 | 24139 | 37013 | - | - | - | - | - | - | - | - | - |
| 6S-3800-685-CL | 3.0 | 7.4 | 20866 | 11483 | 17253 | 44542 | 24000 | 36779 | 54985 | 30218 | 47185 | - | - | - | - | - | - | - | - | - |
| 6S-3800-735-CL | 2.6 | 6.5 | 20795 | 11436 | 17164 | 53944 | 29598 | 46148 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6S-3900-535-CL | 2.8 | 12.0 | 22472 | 12585 | 19397 | 18420 | 8398 | 10891 | 24790 | 12246 | 17238 | 37530 | 19866 | 29933 | 43901 | 23664 | 36281 | 56641 | 31250 | 48976 |
| 6S-3900-585-CL | 2.5 | 10.3 | 22415 | 12548 | 19327 | 25836 | 12874 | 18280 | 33452 | 17432 | 25869 | 48685 | 26513 | 41048 | 56301 | 31048 | 48638 | - | - | - |
| 6S-3900-635-CL | 2.2 | 8.8 | 22354 | 12507 | 19251 | 33913 | 17707 | 26329 | 42887 | 23061 | 35271 | - | - | - | - | - | - | - | - | - |
| 6S-3900-685-CL | 2.0 | 7.5 | 22287 | 12463 | 19169 | 42653 | 22921 | 35038 | 53096 | 29140 | 45444 | - | - | - | - | - | - | - | - | - |
| 6S-3900-735-CL | 1.8 | 6.5 | 22216 | 12416 | 19080 | 52055 | 28520 | 44406 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14S-5100-635-CL | 3.6 | 12.0 | 24596 | 13852 | 21159 | 37818 | 19109 | 27655 | 47774 | 24962 | 37260 | 67685 | 36642 | 56470 | 77640 | 42472 | 66075 | 97551 | 54134 | 85285 |
| 14S-5100-685-CL | 3.2 | 12.0 | 24524 | 13804 | 21067 | 47514 | 24809 | 37009 | 59099 | 31607 | 48187 | 82269 | 45183 | 70541 | 93854 | 51969 | 81718 | 117024 | 65532 | 104072 |
| 14S-5100-735-CL | 2.8 | 10.6 | 24447 | 13752 | 20969 | 57944 | 30929 | 47072 | 71282 | 38748 | 59941 | 97958 | 54372 | 85678 | 111296 | 62180 | 98546 | - | - | - |
| 14S-5100-785-CL | 2.6 | 9.3 | 24365 | 13697 | 20864 | 69109 | 37476 | 57844 | 84323 | 46386 | 72523 | 114752 | 64202 | 101880 | - | - | - | - | - | - |
| 14S-5100-835-CL | 2.3 | 8.2 | 24277 | 13638 | 20752 | 81008 | 44445 | 69324 | 98222 | 54527 | 85933 | - | - | - | - | - | - | - | - | - |
| 14S-5100-885-CL | 2.1 | 7.3 | 24184 | 13575 | 20633 | 93641 | 51844 | 81513 | 112979 | 63165 | 100170 | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 50. Models 14S-5100-935-CL to 14S-8300-935-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 14S-5100-935-CL | 2.0 | 6.6 | 24086 | 13509 | 20507 | 42257 | 21721 | 31937 | 53049 | 28059 | 42350 | 63841 | 34388 | 52762 | 74633 | 40711 | 63174 | 85425 | 47032 | 73586 | 96217 | 53353 | 83999 |
| 14S-5400-635-CL | 4.5 | 12.0 | 31902 | 17436 | 25418 | - | - | - | - | - | - | - | - | - | - | - | - | 23662 | 8896 | 9630 | 28640 | 11984 | 14432 |
| 14S-5400-685-CL | 4.0 | 12.0 | 31831 | 17388 | 25327 | - | - | - | - | - | - | - | - | - | 25936 | 10324 | 11823 | 31728 | 13854 | 17412 | 37521 | 17323 | 23001 |
| 14S-5400-735-CL | 3.5 | 10.9 | 31754 | 17336 | 25229 | - | - | - | - | - | - | 27067 | 11022 | 12915 | 33736 | 15061 | 19349 | 40405 | 19038 | 25784 | 47074 | 22988 | 32218 |
| 14S-5400-785-CL | 3.1 | 9.6 | 31671 | 17281 | 25124 | - | - | - | 26872 | 10902 | 12727 | 34479 | 15507 | 20066 | 42086 | 20036 | 27406 | 49693 | 24534 | 34745 | 57301 | 29018 | 42084 |
| 14S-5400-835-CL | 2.8 | 8.5 | 31584 | 17222 | 25012 | 25164 | 9844 | 11079 | 33771 | 15082 | 19383 | 42379 | 20209 | 27688 | 50986 | 25297 | 35992 | 59593 | 30368 | 44296 | 68200 | 35427 | 52600 |
| 14S-5400-885-CL | 2.6 | 7.5 | 31491 | 17159 | 24893 | 31428 | 13674 | 17123 | 41097 | 19449 | 26451 | 50766 | 25167 | 35779 | 60434 | 30863 | 45108 | 70103 | 36545 | 54436 | 79772 | 42221 | 63765 |
| 14S-5400-935-CL | 2.4 | 6.7 | 31392 | 17093 | 24767 | 38056 | 17642 | 23517 | 48848 | 24035 | 33929 | 59640 | 30396 | 44342 | 70432 | 36738 | 54754 | 81225 | 43073 | 65166 | 92017 | 49402 | 75578 |
| 14S-8300-735-CL | 4.3 | 11.5 | 40951 | 22498 | 33067 | - | - | - | - | - | - | - | - | - | 26007 | 8526 | 8526 | 32676 | 13034 | 14960 | 39345 | 17101 | 21394 |
| 14S-8300-785-CL | 3.9 | 10.1 | 40869 | 22443 | 32962 | - | - | - | - | - | - | 26750 | 9223 | 9242 | 34357 | 14070 | 16582 | 41964 | 18677 | 23921 | 49571 | 23217 | 31260 |
| 14S-8300-835-CL | 3.5 | 8.9 | 40781 | 22384 | 32850 | - | - | - | - | - | - | 34649 | 14249 | 16864 | 43256 | 19452 | 25168 | 51863 | 24579 | 33472 | 60470 | 29672 | 41776 |
| 14S-8300-885-CL | 3.2 | 7.9 | 40688 | 22321 | 32731 | - | - | - | 33367 | 13462 | 15627 | 43036 | 19320 | 24955 | 52705 | 25078 | 34284 | 62374 | 30795 | 43612 | 72042 | 36494 | 52941 |
| 14S-8300-935-CL | 2.9 | 7.1 | 40590 | 22254 | 32605 | 30327 | 11565 | 12693 | 41119 | 18170 | 23105 | 51911 | 24607 | 33518 | 62703 | 30990 | 43930 | 73495 | 37349 | 54342 | 84287 | 43695 | 64754 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 51. Models 14S-5100-935-CL to 14S-8300-935-CL

| Model | Hold Pressure (barg) | MOP (barg) | BTC | RTC | ETC | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 14S-5100-935-CL | 2.0 | 6.6 | 24086 | 13509 | 20507 | 107010 | 59672 | 94411 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14S-5400-635-CL | 4.5 | 12.0 | 31902 | 17436 | 25418 | 33617 | 14990 | 19235 | 43573 | 20916 | 28840 | 63484 | 32656 | 48050 | 73439 | 38505 | 57655 | 93350 | 50184 | 76865 |
| 14S-5400-685-CL | 4.0 | 12.0 | 31831 | 17388 | 25327 | 43313 | 20762 | 28589 | 54898 | 27603 | 39766 | 78068 | 41222 | 62121 | 89653 | 48016 | 73298 | 112823 | 61595 | 95652 |
| 14S-5400-735-CL | 3.5 | 10.9 | 31754 | 17336 | 25229 | 53743 | 26923 | 38652 | 67081 | 34770 | 51521 | 93757 | 50423 | 77257 | 107095 | 58240 | 90126 | - | - | - |
| 14S-5400-785-CL | 3.1 | 9.6 | 31671 | 17281 | 25124 | 64908 | 33493 | 49424 | 80122 | 42427 | 64103 | 110551 | 60264 | 93460 | - | - | - | - | - | - |
| 14S-5400-835-CL | 2.8 | 8.5 | 31584 | 17222 | 25012 | 76807 | 40483 | 60904 | 94021 | 50578 | 77512 | - | - | - | - | - | - | - | - | - |
| 14S-5400-885-CL | 2.6 | 7.5 | 31491 | 17159 | 24893 | 89441 | 47892 | 73093 | 108778 | 59226 | 91750 | - | - | - | - | - | - | - | - | - |
| 14S-5400-935-CL | 2.4 | 6.7 | 31392 | 17093 | 24767 | 102809 | 55730 | 85991 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14S-8300-735-CL | 4.3 | 11.5 | 40951 | 22498 | 33067 | 46014 | 21099 | 27828 | 59352 | 29011 | 40697 | 86028 | 44717 | 66433 | 99365 | 52549 | 79302 | - | - | - |
| 14S-8300-785-CL | 3.9 | 10.1 | 40869 | 22443 | 32962 | 57178 | 27727 | 38600 | 72393 | 36700 | 53279 | 102821 | 54576 | 82636 | 118036 | 63498 | 97315 | - | - | - |
| 14S-8300-835-CL | 3.5 | 8.9 | 40781 | 22384 | 32850 | 69077 | 34748 | 50080 | 86292 | 44872 | 66688 | - | - | - | - | - | - | - | - | - |
| 14S-8300-885-CL | 3.2 | 7.9 | 40688 | 22321 | 32731 | 81711 | 42181 | 62269 | 101049 | 53536 | 80926 | - | - | - | - | - | - | - | - | - |
| 14S-8300-935-CL | 2.9 | 7.1 | 40590 | 22254 | 32605 | 95079 | 50035 | 75167 | 116664 | 62693 | 95991 | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 52. Models 18S-9600-835-CL to 18S-11000-1300-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|
| | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | | | | |
| | | | BTC | RTC | ETC | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 18S-9600-835-CL | 4.6 | 11.4 | 66304 | 34048 | 44881 | - | - | - | - | - | - | - | - | - | - | - | - | 52610 | 16539 | 16539 | 62505 | 23808 | 26092 |
| 18S-9600-935-CL | 3.8 | 9.1 | 66083 | 33897 | 44600 | - | - | - | - | - | - | 52664 | 16592 | 16592 | 65072 | 25424 | 28570 | 77479 | 33043 | 40548 | 89886 | 40514 | 52526 |
| 18S-9600-1000-CL | 3.4 | 7.9 | 65927 | 33789 | 44400 | - | - | - | 52574 | 16505 | 16505 | 66766 | 26480 | 30206 | 80959 | 35148 | 43908 | 95151 | 43659 | 57609 | 109344 | 52099 | 71310 |
| 18S-9600-1100-CL | 2.9 | 6.6 | 65665 | 33610 | 44065 | 55966 | 19546 | 19779 | 73139 | 30402 | 36358 | 90312 | 40769 | 52937 | 107484 | 50998 | 69515 | 124657 | 61162 | 86094 | 141830 | 71294 | 102673 |
| 18S-9600-1200-CL | 2.5 | 5.5 | 65378 | 33413 | 43700 | 75225 | 31675 | 38372 | 95662 | 43964 | 58102 | 116099 | 56101 | 77832 | 136536 | 68177 | 97562 | 156974 | 80213 | 117292 | 177411 | 92228 | 137022 |
| 18S-9600-1300-CL | 2.2 | 4.5 | 65067 | 33199 | 43302 | 96159 | 44260 | 58582 | 120144 | 58497 | 81737 | 144129 | 72649 | 104892 | 168115 | 86765 | 128048 | - | - | - | - | - | - |
| 18S-9800-835-CL | 5.7 | 11.9 | 83920 | 42715 | 55491 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9800-935-CL | 4.7 | 9.5 | 83699 | 42564 | 55210 | - | - | - | - | - | - | - | - | - | - | - | - | 67016 | 20215 | 20215 | 79423 | 29805 | 32194 |
| 18S-9800-1000-CL | 4.1 | 8.3 | 83543 | 42456 | 55010 | - | - | - | - | - | - | - | - | - | 70495 | 23575 | 23575 | 84688 | 33129 | 37276 | 98880 | 41857 | 50977 |
| 18S-9800-1100-CL | 3.5 | 6.9 | 83281 | 42276 | 54676 | - | - | - | - | - | - | 79848 | 30077 | 32604 | 97021 | 40725 | 49183 | 114194 | 51091 | 65761 | 131367 | 61342 | 82340 |
| 18S-9800-1200-CL | 3.1 | 5.8 | 82994 | 42079 | 54310 | - | - | - | 85199 | 33448 | 37769 | 105636 | 45945 | 57499 | 126073 | 58192 | 77229 | 146510 | 70330 | 96959 | 166947 | 82416 | 116689 |
| 18S-9800-1300-CL | 2.7 | 4.5 | 82683 | 41866 | 53912 | 85695 | 33757 | 38249 | 109681 | 48383 | 61404 | 133666 | 62709 | 84560 | 157651 | 76926 | 107715 | - | - | - | - | - | - |
| 18S-10500-935-CL | 5.1 | 9.6 | 92694 | 46404 | 58625 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 76055 | 21993 | 21993 |
| 18S-10500-1000-CL | 4.5 | 8.4 | 92538 | 46296 | 58425 | - | - | - | - | - | - | - | - | - | - | - | - | 81320 | 27075 | 27075 | 95512 | 36795 | 40777 |
| 18S-10500-1100-CL | 3.8 | 7.0 | 92276 | 46115 | 58091 | - | - | - | - | - | - | 76480 | 22403 | 22403 | 93653 | 35620 | 38982 | 110826 | 46262 | 55560 | 127999 | 56652 | 72139 |
| 18S-10500-1200-CL | 3.3 | 5.9 | 91989 | 45917 | 57725 | - | - | - | 81831 | 27568 | 27568 | 102268 | 41008 | 47298 | 122705 | 53464 | 67028 | 143142 | 65715 | 86758 | 163579 | 77870 | 106488 |
| 18S-10500-1300-CL | 2.9 | 5.0 | 91678 | 45702 | 57327 | 82327 | 28048 | 28048 | 106313 | 43500 | 51203 | 130298 | 58031 | 74359 | 154283 | 72348 | 97514 | 178269 | 86572 | 120669 | - | - | - |
| 18S-11000-935-CL | 5.7 | 10.2 | 104062 | 54199 | 73136 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-11000-1000-CL | 5.0 | 8.9 | 103905 | 54092 | 72936 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 81202 | 26962 | 26962 |
| 18S-11000-1100-CL | 4.3 | 7.4 | 103643 | 53913 | 72602 | - | - | - | - | - | - | - | - | - | 79343 | 25167 | 25167 | 96516 | 37426 | 41745 | 113689 | 48008 | 58324 |
| 18S-11000-1200-CL | 3.7 | 6.2 | 103357 | 53717 | 72236 | - | - | - | - | - | - | 87958 | 31960 | 33483 | 108395 | 44779 | 53213 | 128832 | 57152 | 72943 | 149269 | 69367 | 92673 |
| 18S-11000-1300-CL | 3.2 | 5.3 | 103045 | 53504 | 71839 | - | - | - | 92003 | 34571 | 37388 | 115988 | 49402 | 60544 | 139973 | 63823 | 83699 | 163959 | 78095 | 106854 | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 53. Models 18S-9600-835-CL to 18S-11000-1300-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|-------|-------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|-----|-----|-----|
| | | | BTC | RTC | ETC | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 18S-9600-835-CL | 4.6 | 11.4 | 66304 | 34048 | 44881 | 72400 | 29952 | 35645 | 92191 | 41891 | 54751 | 131772 | 65364 | 92963 | 151563 | 77027 | 112069 | - | - | - |
| 18S-9600-935-CL | 3.8 | 9.1 | 66083 | 33897 | 44600 | 102294 | 47912 | 64504 | 127109 | 62610 | 88461 | 176738 | 91833 | 136373 | - | - | - | - | - | - |
| 18S-9600-1000-CL | 3.4 | 7.9 | 65927 | 33789 | 44400 | 123536 | 60500 | 85012 | 151921 | 77238 | 112414 | - | - | - | - | - | - | - | - | - |
| 18S-9600-1100-CL | 2.9 | 6.6 | 65665 | 33610 | 44065 | 159003 | 81409 | 119251 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9600-1200-CL | 2.5 | 5.5 | 65378 | 33413 | 43700 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9600-1300-CL | 2.2 | 4.5 | 65067 | 33199 | 43302 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9800-835-CL | 5.7 | 11.9 | 83920 | 42715 | 55491 | 61937 | 15312 | 15312 | 81728 | 31269 | 34418 | 121309 | 55348 | 72630 | 141100 | 67125 | 91736 | - | - | - |
| 18S-9800-935-CL | 4.7 | 9.5 | 83699 | 42564 | 55210 | 91831 | 37551 | 44172 | 116645 | 52561 | 68128 | 166275 | 82019 | 116040 | - | - | - | - | - | - |
| 18S-9800-1000-CL | 4.1 | 8.3 | 83543 | 42456 | 55010 | 113073 | 50418 | 64679 | 141458 | 67337 | 92082 | - | - | - | - | - | - | - | - | - |
| 18S-9800-1100-CL | 3.5 | 6.9 | 83281 | 42276 | 54676 | 148540 | 71533 | 98919 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9800-1200-CL | 3.1 | 5.8 | 82994 | 42079 | 54310 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9800-1300-CL | 2.7 | 4.5 | 82683 | 41866 | 53912 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-10500-935-CL | 5.1 | 9.6 | 92694 | 46404 | 58625 | 88463 | 32289 | 33971 | 113277 | 47758 | 57927 | 162907 | 77472 | 105839 | - | - | - | - | - | - |
| 18S-10500-1000-CL | 4.5 | 8.4 | 92538 | 46296 | 58425 | 109705 | 45578 | 54478 | 138090 | 62698 | 81881 | - | - | - | - | - | - | - | - | - |
| 18S-10500-1100-CL | 3.8 | 7.0 | 92276 | 46115 | 58091 | 145172 | 66926 | 88718 | 179518 | 87312 | 121875 | - | - | - | - | - | - | - | - | - |
| 18S-10500-1200-CL | 3.3 | 5.9 | 91989 | 45917 | 57725 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-10500-1300-CL | 2.9 | 5.0 | 91678 | 45702 | 57327 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-11000-935-CL | 5.7 | 10.2 | 104062 | 54199 | 73136 | 74152 | 20156 | 20156 | 98967 | 38959 | 44112 | 148597 | 68967 | 92024 | 173412 | 83695 | 115981 | - | - | - |
| 18S-11000-1000-CL | 5.0 | 8.9 | 103905 | 54092 | 72936 | 95395 | 36721 | 40663 | 123780 | 54112 | 68066 | - | - | - | - | - | - | - | - | - |
| 18S-11000-1100-CL | 4.3 | 7.4 | 103643 | 53913 | 72602 | 130862 | 58369 | 74903 | 165207 | 78834 | 108060 | - | - | - | - | - | - | - | - | - |
| 18S-11000-1200-CL | 3.7 | 6.2 | 103357 | 53717 | 72236 | 169707 | 81500 | 112403 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-11000-1300-CL | 3.2 | 5.3 | 103045 | 53504 | 71839 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 54. Models 32S-9900-1100-CL to 50S-17300-1450-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|-------|--------|--------|-------|-------|--------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | | | | |
| | | | BTC | RTC | ETC | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 32S-9900-1100-CL | 3.5 | 9.5 | 100473 | 47232 | 54973 | - | - | - | - | - | - | 101195 | 36747 | 37874 | 121146 | 49546 | 57575 | 141097 | 61849 | 77275 | 161048 | 73969 | 96975 |
| 32S-9900-1200-CL | 3.1 | 7.9 | 100133 | 46995 | 54548 | - | - | - | 107411 | 40838 | 44012 | 131155 | 55751 | 67457 | 154898 | 70247 | 90903 | 178641 | 84578 | 114348 | 202385 | 98819 | 137793 |
| 32S-9900-1300-CL | 2.7 | 6.8 | 99763 | 46738 | 54086 | 107988 | 41211 | 44582 | 135854 | 58641 | 72098 | 163719 | 75585 | 99613 | 191585 | 92347 | 127128 | 219450 | 109025 | 154644 | 247316 | 125645 | 182159 |
| 32S-12000-1100-CL | 4.2 | 9.9 | 122648 | 59548 | 73095 | - | - | - | - | - | - | - | - | - | 103275 | 31510 | 31510 | 123226 | 47180 | 51211 | 143177 | 59748 | 70911 |
| 32S-12000-1200-CL | 3.6 | 8.3 | 122308 | 59315 | 72670 | - | - | - | - | - | - | 113284 | 40623 | 41393 | 137027 | 55922 | 64838 | 160770 | 70565 | 88283 | 184514 | 84982 | 111728 |
| 32S-12000-1300-CL | 3.2 | 7.1 | 121938 | 59061 | 72208 | - | - | - | 117983 | 43766 | 46033 | 145848 | 61402 | 73549 | 173714 | 78445 | 101064 | 201579 | 95271 | 128579 | 229445 | 111988 | 156095 |
| 32S-15000-1100-CL | 4.8 | 10.4 | 142766 | 71309 | 91660 | - | - | - | - | - | - | - | - | - | - | - | - | 104918 | 27368 | 27368 | 124869 | 45511 | 47068 |
| 32S-15000-1200-CL | 4.1 | 8.7 | 142425 | 71077 | 91235 | - | - | - | - | - | - | - | - | - | 118719 | 40995 | 40995 | 142462 | 56873 | 64440 | 166206 | 71614 | 87885 |
| 32S-15000-1300-CL | 3.6 | 7.4 | 142055 | 70825 | 90773 | - | - | - | - | - | - | 127540 | 47285 | 49706 | 155406 | 64955 | 77221 | 183271 | 82033 | 104736 | 211137 | 98887 | 132252 |
| 50S-15400-1100-CL | 4.7 | 12.0 | 155582 | 73457 | 86600 | - | - | - | - | - | - | - | - | - | - | - | - | 131080 | 35736 | 35736 | 153193 | 55915 | 57687 |
| 50S-15400-1200-CL | 4.0 | 10.2 | 155202 | 73194 | 86129 | - | - | - | - | - | - | - | - | - | 146376 | 50920 | 50920 | 172694 | 68586 | 77044 | 199011 | 85030 | 103168 |
| 50S-15400-1300-CL | 3.5 | 8.7 | 154790 | 72908 | 85616 | - | - | - | - | - | - | 156154 | 57893 | 60626 | 187040 | 77608 | 91285 | 217926 | 96649 | 121944 | 248812 | 115428 | 152603 |
| 50S-15400-1450-CL | 2.9 | 7.0 | 154109 | 72436 | 84772 | 138861 | 43460 | 43460 | 177285 | 71491 | 81602 | 215710 | 95295 | 119744 | 254135 | 118645 | 157887 | 292560 | 141807 | 196029 | 330985 | 164858 | 234172 |
| 50S-15600-1100-CL | 4.9 | 12.0 | 162630 | 78316 | 95351 | - | - | - | - | - | - | - | - | - | - | - | - | 122450 | 27170 | 27170 | 144564 | 49121 | 49121 |
| 50S-15600-1200-CL | 4.2 | 10.4 | 162251 | 78055 | 94880 | - | - | - | - | - | - | - | - | - | 137747 | 42354 | 42354 | 164064 | 63062 | 68478 | 190381 | 79685 | 94601 |
| 50S-15600-1300-CL | 3.7 | 8.8 | 161838 | 77771 | 94368 | - | - | - | - | - | - | 147524 | 52024 | 52060 | 178410 | 72200 | 82719 | 209296 | 91361 | 113378 | 240183 | 110195 | 144037 |
| 50S-15600-1450-CL | 3.1 | 7.1 | 161158 | 77303 | 93523 | - | - | - | 168656 | 66014 | 73036 | 207081 | 90002 | 111178 | 245505 | 113427 | 149321 | 283930 | 136613 | 187463 | 322355 | 159684 | 225605 |
| 50S-17300-1100-CL | 5.5 | 12.0 | 185420 | 91855 | 117073 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50S-17300-1200-CL | 4.7 | 10.8 | 185041 | 91597 | 116602 | - | - | - | - | - | - | - | - | - | - | - | - | 142642 | 41393 | 41393 | 168959 | 63556 | 67516 |
| 50S-17300-1300-CL | 4.1 | 9.2 | 184628 | 91317 | 116090 | - | - | - | - | - | - | - | - | - | 156989 | 55489 | 55634 | 187875 | 75683 | 86293 | 218761 | 94883 | 116952 |
| 50S-17300-1450-CL | 3.4 | 7.4 | 183948 | 90855 | 115245 | - | - | - | 147234 | 45951 | 45951 | 185659 | 74286 | 84093 | 224084 | 98148 | 122236 | 262509 | 121551 | 160378 | 300934 | 144732 | 198520 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 55. Models 32S-9900-1100-CL to 50S-17300-1450-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | BTC | RTC | ETC | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 32S-9900-1100-CL | 3.5 | 9.5 | 100473 | 47232 | 54973 | 180999 | 85994 | 116676 | 220901 | 109893 | 156077 | 300705 | 157414 | 234878 | - | - | - | - | - | - |
| 32S-9900-1200-CL | 3.1 | 7.9 | 100133 | 46995 | 54548 | 226128 | 113011 | 161238 | 273615 | 141301 | 208128 | - | - | - | - | - | - | - | - | - |
| 32S-9900-1300-CL | 2.7 | 6.8 | 99763 | 46738 | 54086 | 275181 | 142232 | 209675 | - | - | - | - | - | - | - | - | - | - | - | - |
| 32S-12000-1100-CL | 4.2 | 9.9 | 122648 | 59548 | 73095 | 163128 | 72006 | 90611 | 203030 | 96145 | 130012 | 282834 | 143864 | 208814 | - | - | - | - | - | - |
| 32S-12000-1200-CL | 3.6 | 8.3 | 122308 | 59315 | 72670 | 208257 | 99283 | 135173 | 255744 | 127710 | 182063 | - | - | - | - | - | - | - | - | - |
| 32S-12000-1300-CL | 3.2 | 7.1 | 121938 | 59061 | 72208 | 257310 | 128644 | 183610 | 313041 | 161842 | 238641 | - | - | - | - | - | - | - | - | - |
| 32S-15000-1100-CL | 4.8 | 10.4 | 142766 | 71309 | 91660 | 144820 | 58355 | 66768 | 184722 | 82915 | 106169 | 264526 | 130904 | 184971 | 304429 | 154712 | 224371 | - | - | - |
| 32S-15000-1200-CL | 4.1 | 8.7 | 142425 | 71077 | 91235 | 189949 | 86089 | 111330 | 237436 | 114691 | 158220 | - | - | - | - | - | - | - | - | - |
| 32S-15000-1300-CL | 3.6 | 7.4 | 142055 | 70825 | 90773 | 239002 | 115631 | 159767 | 294733 | 148931 | 214798 | - | - | - | - | - | - | - | - | - |
| 50S-15400-1100-CL | 4.7 | 12.0 | 155582 | 73457 | 86600 | 175307 | 70244 | 79638 | 219534 | 97630 | 123541 | 307989 | 151066 | 211345 | 352217 | 177555 | 255247 | 440672 | 230358 | 343052 |
| 50S-15400-1200-CL | 4.0 | 10.2 | 155202 | 73194 | 86129 | 225328 | 101164 | 129291 | 277962 | 133020 | 181539 | 383231 | 196095 | 286033 | 435865 | 227491 | 338281 | - | - | - |
| 50S-15400-1300-CL | 3.5 | 8.7 | 154790 | 72908 | 85616 | 279698 | 134065 | 183262 | 341471 | 171129 | 244580 | - | - | - | - | - | - | - | - | - |
| 50S-15400-1450-CL | 2.9 | 7.0 | 154109 | 72436 | 84772 | 369410 | 187837 | 272314 | 446259 | 233691 | 348599 | - | - | - | - | - | - | - | - | - |
| 50S-15600-1100-CL | 4.9 | 12.0 | 162630 | 78316 | 95351 | 166677 | 64747 | 71072 | 210905 | 92348 | 114974 | 299360 | 145890 | 202779 | 343587 | 172395 | 246681 | 432042 | 225211 | 334486 |
| 50S-15600-1200-CL | 4.2 | 10.4 | 162251 | 78055 | 94880 | 216698 | 95899 | 120725 | 269332 | 127825 | 172972 | 374601 | 190942 | 277467 | 427235 | 222344 | 329715 | - | - | - |
| 50S-15600-1300-CL | 3.7 | 8.8 | 161838 | 77771 | 94368 | 271069 | 128871 | 174696 | 332841 | 165968 | 236014 | - | - | - | - | - | - | - | - | - |
| 50S-15600-1450-CL | 3.1 | 7.1 | 161158 | 77303 | 93523 | 360780 | 182676 | 263748 | 437630 | 228544 | 340033 | - | - | - | - | - | - | - | - | - |
| 50S-17300-1100-CL | 5.5 | 12.0 | 185420 | 91855 | 117073 | 145256 | 43987 | 43987 | 189483 | 76697 | 87889 | 277938 | 130875 | 175694 | 322165 | 157493 | 219596 | 410620 | 210429 | 307401 |
| 50S-17300-1200-CL | 4.7 | 10.8 | 185041 | 91597 | 116602 | 195277 | 80331 | 93640 | 247911 | 112691 | 145888 | 353180 | 176091 | 250382 | 405814 | 207562 | 302630 | - | - | - |
| 50S-17300-1300-CL | 4.1 | 9.2 | 184628 | 91317 | 116090 | 249647 | 113745 | 147611 | 311419 | 151044 | 208929 | 434964 | 224949 | 331565 | - | - | - | - | - | - |
| 50S-17300-1450-CL | 3.4 | 7.4 | 183948 | 90855 | 115245 | 339358 | 167806 | 236663 | 416208 | 213762 | 312948 | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 56. Models 50S-18600-1100-CL to 80S-19700-1800-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | | | | |
| | | | BTC | RTC | ETC | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 50S-18600-1100-CL | 6.9 | 12.0 | 237221 | 113957 | 138199 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50S-18600-1200-CL | 5.8 | 11.2 | 236842 | 113696 | 137727 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50S-18600-1300-CL | 5.1 | 10.3 | 236429 | 113413 | 137215 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 50S-18600-1450-CL | 4.2 | 7.7 | 235749 | 112945 | 136370 | - | - | - | - | - | - | - | - | - | 203251 | 63305 | 63305 | 241676 | 93157 | 101447 | 280100 | 117403 | 139589 |
| 65S-18400-1600-CL | 3.5 | 9.0 | 221705 | 108061 | 134176 | - | - | - | - | - | - | 213898 | 81345 | 87372 | 258344 | 109406 | 131492 | 302791 | 136663 | 175612 | 347238 | 163593 | 219732 |
| 65S-18400-1700-CL | 3.2 | 8.0 | 221188 | 107708 | 133534 | - | - | - | 208984 | 78128 | 82495 | 259160 | 109911 | 132302 | 309337 | 140641 | 182110 | 359513 | 170999 | 231917 | 409689 | 201161 | 281725 |
| 65S-18400-1800-CL | 2.9 | 7.0 | 220639 | 107333 | 132852 | 194661 | 68277 | 68277 | 250913 | 104791 | 124116 | 307166 | 139323 | 179955 | 363419 | 173350 | 235795 | 419672 | 207149 | 291634 | 475925 | 240821 | 347474 |
| 65S-19400-1600-CL | 4.2 | 9.0 | 273816 | 136199 | 174726 | - | - | - | - | - | - | - | - | - | 218356 | 70410 | 70410 | 262803 | 103187 | 114530 | 307249 | 131025 | 158650 |
| 65S-19400-1700-CL | 3.8 | 8.0 | 273299 | 135848 | 174084 | - | - | - | - | - | - | 219172 | 71220 | 71220 | 269348 | 107349 | 121027 | 319524 | 138593 | 170834 | 369701 | 169216 | 220642 |
| 65S-19400-1800-CL | 3.4 | 7.0 | 272751 | 135475 | 173403 | - | - | - | 210925 | 63033 | 63033 | 267178 | 105970 | 118873 | 323431 | 140989 | 174712 | 379684 | 175276 | 230551 | 435937 | 209229 | 286391 |
| 80S-18700-1800-CL | 2.9 | 7.0 | 272594 | 119824 | 125665 | 276024 | 85547 | 85547 | 345107 | 137130 | 154121 | 414189 | 180143 | 222696 | 483272 | 222273 | 291271 | 552354 | 264005 | 359845 | 621437 | 305518 | 428420 |
| 80S-19700-1800-CL | 3.4 | 7.0 | 332492 | 149828 | 163610 | - | - | - | 307686 | 84719 | 84719 | 376769 | 143001 | 153294 | 445851 | 186745 | 221868 | 514934 | 229256 | 290443 | 584016 | 271241 | 359018 |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 57. Models 50S-18600-1100-CL to 80S-19700-1800-CL

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | BTC | RTC | ETC | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO | BTO | RTO | ETO |
| 50S-18600-1100-CL | 6.9 | 12.0 | 237221 | 113957 | 138199 | - | - | - | 168650 | 28958 | 28958 | 257105 | 103006 | 116763 | 301332 | 130528 | 160665 | 389787 | 184310 | 248470 |
| 50S-18600-1200-CL | 5.8 | 11.2 | 236842 | 113696 | 137727 | 174443 | 34709 | 34709 | 227078 | 83598 | 86957 | 332346 | 149502 | 191451 | 384981 | 181405 | 243699 | - | - | - |
| 50S-18600-1300-CL | 5.1 | 10.3 | 236429 | 113413 | 137215 | 228814 | 84755 | 88680 | 290586 | 123900 | 149998 | 414131 | 198970 | 272634 | - | - | - | - | - | - |
| 50S-18600-1450-CL | 4.2 | 7.7 | 235749 | 112945 | 136370 | 318525 | 141070 | 177732 | 395375 | 187680 | 254017 | - | - | - | - | - | - | - | - | - |
| 65S-18400-1600-CL | 3.5 | 9.0 | 221705 | 108061 | 134176 | 391685 | 190361 | 263852 | 480578 | 243603 | 352092 | - | - | - | - | - | - | - | - | - |
| 65S-18400-1700-CL | 3.2 | 8.0 | 221188 | 107708 | 133534 | 459865 | 231216 | 331532 | 560218 | 291139 | 431147 | - | - | - | - | - | - | - | - | - |
| 65S-18400-1800-CL | 2.9 | 7.0 | 220639 | 107333 | 132852 | 532178 | 274414 | 403313 | 644684 | 341460 | 514992 | - | - | - | - | - | - | - | - | - |
| 65S-19400-1600-CL | 4.2 | 9.0 | 273816 | 136199 | 174726 | 351696 | 158272 | 202770 | 440590 | 212030 | 291010 | 618377 | 318466 | 467490 | - | - | - | - | - | - |
| 65S-19400-1700-CL | 3.8 | 8.0 | 273299 | 135848 | 174084 | 419877 | 199562 | 270449 | 520229 | 259819 | 370064 | - | - | - | - | - | - | - | - | - |
| 65S-19400-1800-CL | 3.4 | 7.0 | 272751 | 135475 | 173403 | 492189 | 243016 | 342230 | 604695 | 310305 | 453909 | - | - | - | - | - | - | - | - | - |
| 80S-18700-1800-CL | 2.9 | 7.0 | 272594 | 119824 | 125665 | 690519 | 346899 | 496995 | - | - | - | - | - | - | - | - | - | - | - | - |
| 80S-19700-1800-CL | 3.4 | 7.0 | 332492 | 149828 | 163610 | 653099 | 312925 | 427592 | - | - | - | - | - | - | - | - | - | - | - | - |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Symmetric Yoke Design, Spring to Open

Table 58. Models 0.3S-008A-100-OP to 0.9S-0350-435-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|-----|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.3S-008A-100-OP | 4.2 | 12.0 | 217 | 95 | 110 | - | - | - | - | - | - | - | - | - | 185 | 64 | 64 | 223 | 93 | 105 | 261 | 117 | 146 |
| 0.3S-008A-135-OP | 2.6 | 12.0 | 209 | 90 | 101 | 250 | 111 | 135 | 320 | 154 | 210 | 390 | 198 | 285 | 460 | 241 | 360 | 529 | 284 | 435 | 599 | 326 | 510 |
| 0.3S-008B-100-OP | 5.9 | 12.0 | 328 | 102 | 102 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3S-008B-135-OP | 3.5 | 12.0 | 320 | 93 | 93 | - | - | - | - | - | - | 385 | 146 | 147 | 454 | 193 | 222 | 524 | 237 | 297 | 594 | 281 | 372 |
| 0.3S-008C-100-OP | 6.9 | 12.0 | 396 | 134 | 134 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3S-008C-135-OP | 4.1 | 12.0 | 388 | 125 | 125 | - | - | - | - | - | - | - | - | - | 418 | 137 | 137 | 488 | 197 | 212 | 557 | 242 | 288 |
| 0.3S-008C-175-OP | 2.7 | 12.0 | 379 | 114 | 114 | 483 | 194 | 208 | 601 | 270 | 334 | 718 | 343 | 460 | 835 | 416 | 587 | 952 | 489 | 713 | 1069 | 561 | 839 |
| 0.3S-0100-135-OP | 6.2 | 12.0 | 641 | 268 | 286 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.3S-0100-175-OP | 3.9 | 12.0 | 632 | 261 | 275 | - | - | - | - | - | - | 543 | 147 | 147 | 660 | 260 | 274 | 778 | 337 | 400 | 895 | 412 | 526 |
| 0.3S-0100-235-OP | 2.4 | 8.0 | 617 | 251 | 258 | 858 | 389 | 487 | 1069 | 521 | 714 | 1281 | 652 | 942 | 1492 | 782 | 1170 | 1704 | 912 | 1398 | 1915 | 1042 | 1625 |
| 0.3S-0150-175-OP | 4.8 | 12.0 | 810 | 382 | 480 | - | - | - | - | - | - | - | - | - | - | - | - | 572 | 178 | 178 | 689 | 280 | 304 |
| 0.3S-0150-235-OP | 2.9 | 8.5 | 796 | 372 | 463 | 652 | 255 | 265 | 864 | 392 | 493 | 1075 | 525 | 720 | 1286 | 655 | 948 | 1498 | 786 | 1176 | 1709 | 916 | 1404 |
| 0.9S-0200-235-OP | 3.2 | 12.0 | 1027 | 470 | 566 | - | - | - | 959 | 395 | 437 | 1204 | 551 | 700 | 1448 | 704 | 964 | 1692 | 856 | 1227 | 1937 | 1007 | 1491 |
| 0.9S-0200-280-OP | 2.4 | 12.0 | 1010 | 458 | 547 | 1312 | 620 | 818 | 1659 | 836 | 1192 | 2006 | 1050 | 1566 | 2353 | 1263 | 1939 | 2700 | 1476 | 2313 | 3047 | 1688 | 2687 |
| 0.9S-0200-335-OP | 1.9 | 9.7 | 997 | 450 | 532 | 2198 | 1167 | 1772 | 2694 | 1472 | 2307 | 3191 | 1776 | 2842 | 3688 | 2080 | 3377 | 4184 | 2384 | 3912 | 4681 | 2687 | 4448 |
| 0.9S-0250-235-OP | 3.7 | 12.0 | 1251 | 617 | 823 | - | - | - | - | - | - | 946 | 386 | 423 | 1190 | 543 | 686 | 1434 | 696 | 949 | 1679 | 848 | 1213 |
| 0.9S-0250-280-OP | 2.8 | 12.0 | 1234 | 606 | 803 | 1055 | 457 | 540 | 1401 | 675 | 914 | 1748 | 891 | 1288 | 2095 | 1104 | 1661 | 2442 | 1318 | 2035 | 2789 | 1530 | 2409 |
| 0.9S-0250-335-OP | 2.1 | 10.0 | 1222 | 598 | 789 | 1940 | 1009 | 1494 | 2436 | 1314 | 2029 | 2933 | 1618 | 2564 | 3430 | 1922 | 3099 | 3926 | 2226 | 3634 | 4423 | 2530 | 4170 |
| 0.9S-0350-280-OP | 4.0 | 12.0 | 1961 | 910 | 1119 | - | - | - | - | - | - | - | - | - | 1729 | 701 | 761 | 2076 | 925 | 1135 | 2423 | 1144 | 1509 |
| 0.9S-0350-335-OP | 3.0 | 10.4 | 1949 | 902 | 1104 | - | - | - | 2070 | 921 | 1129 | 2566 | 1234 | 1664 | 3063 | 1542 | 2199 | 3560 | 1849 | 2734 | 4056 | 2154 | 3269 |
| 0.9S-0350-385-OP | 2.4 | 7.9 | 1934 | 892 | 1087 | 2513 | 1201 | 1607 | 3169 | 1608 | 2314 | 3825 | 2012 | 3020 | 4481 | 2415 | 3727 | 5137 | 2818 | 4434 | 5793 | 3219 | 5141 |
| 0.9S-0350-435-OP | 2.0 | 6.2 | 1922 | 884 | 1074 | 3590 | 1867 | 2767 | 4427 | 2382 | 3669 | 5265 | 2896 | 4571 | 6102 | 3408 | 5474 | 6939 | 3921 | 6376 | 7777 | 4433 | 7279 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 59. Models 0.3S-008A-100-OP to 0.9S-0350-435-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|-----|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.3S-008A-100-OP | 4.2 | 12.0 | 217 | 95 | 110 | 299 | 141 | 187 | 376 | 189 | 270 | 529 | 283 | 435 | 606 | 330 | 517 | 759 | 424 | 682 |
| 0.3S-008A-135-OP | 2.6 | 12.0 | 209 | 90 | 101 | 669 | 369 | 585 | 808 | 454 | 736 | 1087 | 625 | 1036 | 1227 | 710 | 1187 | 1506 | 881 | 1487 |
| 0.3S-008B-100-OP | 5.9 | 12.0 | 328 | 102 | 102 | 294 | 50 | 50 | 371 | 132 | 132 | 524 | 237 | 297 | 600 | 285 | 379 | 754 | 380 | 544 |
| 0.3S-008B-135-OP | 3.5 | 12.0 | 320 | 93 | 93 | 664 | 325 | 448 | 803 | 411 | 598 | 1082 | 583 | 899 | 1222 | 668 | 1049 | 1501 | 839 | 1350 |
| 0.3S-008C-100-OP | 6.9 | 12.0 | 396 | 134 | 134 | - | - | - | 334 | 47 | 47 | 487 | 196 | 212 | 564 | 246 | 295 | 717 | 343 | 459 |
| 0.3S-008C-135-OP | 4.1 | 12.0 | 388 | 125 | 125 | 627 | 286 | 363 | 767 | 374 | 513 | 1046 | 546 | 814 | 1185 | 632 | 964 | 1464 | 803 | 1265 |
| 0.3S-008C-175-OP | 2.7 | 12.0 | 379 | 114 | 114 | 1187 | 651 | 966 | 1421 | 779 | 1218 | 1890 | 1065 | 1723 | 2124 | 1208 | 1976 | 2593 | 1494 | 2481 |
| 0.3S-0100-135-OP | 6.2 | 12.0 | 641 | 268 | 286 | - | - | - | 592 | 200 | 200 | 871 | 397 | 501 | 1011 | 484 | 651 | 1290 | 657 | 952 |
| 0.3S-0100-175-OP | 3.9 | 12.0 | 632 | 261 | 275 | 1012 | 485 | 652 | 1246 | 631 | 905 | 1715 | 919 | 1410 | 1950 | 1063 | 1663 | 2419 | 1350 | 2168 |
| 0.3S-0100-235-OP | 2.4 | 8.0 | 617 | 251 | 258 | 2126 | 1171 | 1853 | 2549 | 1430 | 2309 | - | - | - | - | - | - | - | - | - |
| 0.3S-0150-175-OP | 4.8 | 12.0 | 810 | 382 | 480 | 806 | 356 | 431 | 1041 | 503 | 683 | 1510 | 793 | 1189 | 1744 | 937 | 1441 | 2213 | 1224 | 1946 |
| 0.3S-0150-235-OP | 2.9 | 8.5 | 796 | 372 | 463 | 1921 | 1045 | 1631 | 2343 | 1304 | 2087 | - | - | - | - | - | - | - | - | - |
| 0.9S-0200-235-OP | 3.2 | 12.0 | 1027 | 470 | 566 | 2181 | 1157 | 1754 | 2670 | 1457 | 2281 | 3648 | 2056 | 3334 | 4136 | 2355 | 3861 | 5114 | 2952 | 4914 |
| 0.9S-0200-280-OP | 2.4 | 12.0 | 1010 | 458 | 547 | 3394 | 1901 | 3061 | 4088 | 2325 | 3809 | 5476 | 3173 | 5304 | 6170 | 3597 | 6052 | 7558 | 4445 | 7548 |
| 0.9S-0200-335-OP | 1.9 | 9.7 | 997 | 450 | 532 | 5178 | 2991 | 4983 | 6171 | 3598 | 6053 | 8157 | 4811 | 8194 | - | - | - | - | - | - |
| 0.9S-0250-235-OP | 3.7 | 12.0 | 1251 | 617 | 823 | 1923 | 998 | 1476 | 2412 | 1299 | 2003 | 3390 | 1898 | 3056 | 3878 | 2197 | 3583 | 4856 | 2794 | 4636 |
| 0.9S-0250-280-OP | 2.8 | 12.0 | 1234 | 606 | 803 | 3136 | 1743 | 2783 | 3830 | 2167 | 3531 | 5218 | 3016 | 5026 | 5912 | 3440 | 5774 | 7300 | 4287 | 7270 |
| 0.9S-0250-335-OP | 2.1 | 10.0 | 1222 | 598 | 789 | 4920 | 2833 | 4705 | 5913 | 3440 | 5775 | 7899 | 4654 | 7916 | 8893 | 5260 | 8986 | - | - | - |
| 0.9S-0350-280-OP | 4.0 | 12.0 | 1961 | 910 | 1119 | 2770 | 1360 | 1883 | 3464 | 1790 | 2631 | 4851 | 2642 | 4126 | 5545 | 3068 | 4874 | 6933 | 3917 | 6369 |
| 0.9S-0350-335-OP | 3.0 | 10.4 | 1949 | 902 | 1104 | 4553 | 2459 | 3805 | 5546 | 3068 | 4875 | 7533 | 4284 | 7016 | 8526 | 4891 | 8086 | - | - | - |
| 0.9S-0350-385-OP | 2.4 | 7.9 | 1934 | 892 | 1087 | 6449 | 3621 | 5848 | 7761 | 4423 | 7262 | - | - | - | - | - | - | - | - | - |
| 0.9S-0350-435-OP | 2.0 | 6.2 | 1922 | 884 | 1074 | 8614 | 4945 | 8181 | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 60. Models 0.9S-0350-485-OP to 0.9S-0720-435-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.9S-0350-485-OP | 1.7 | 5.0 | 1914 | 879 | 1065 | 4804 | 2613 | 4075 | 5845 | 3251 | 5196 | 6886 | 3888 | 6318 | 7927 | 4524 | 7440 | 8968 | 5161 | 8562 | - | - | - |
| 0.9S-0400-280-OP | 4.6 | 12.0 | 2350 | 1165 | 1564 | - | - | - | - | - | - | - | - | - | - | - | - | 1628 | 633 | 653 | 1975 | 861 | 1027 |
| 0.9S-0400-335-OP | 3.4 | 10.9 | 2338 | 1157 | 1549 | - | - | - | 1622 | 629 | 647 | 2119 | 953 | 1182 | 2616 | 1265 | 1717 | 3112 | 1573 | 2252 | 3609 | 1879 | 2787 |
| 0.9S-0400-385-OP | 2.7 | 8.2 | 2323 | 1147 | 1532 | 2066 | 919 | 1125 | 2722 | 1331 | 1832 | 3378 | 1737 | 2538 | 4034 | 2141 | 3245 | 4690 | 2543 | 3952 | 5346 | 2945 | 4659 |
| 0.9S-0400-435-OP | 2.2 | 6.4 | 2311 | 1140 | 1519 | 3142 | 1591 | 2285 | 3980 | 2108 | 3187 | 4817 | 2622 | 4089 | 5655 | 3135 | 4992 | 6492 | 3647 | 5894 | 7330 | 4159 | 6797 |
| 0.9S-0400-485-OP | 1.9 | 5.2 | 2303 | 1135 | 1510 | 4356 | 2339 | 3593 | 5397 | 2977 | 4714 | 6438 | 3614 | 5836 | 7479 | 4251 | 6958 | 8520 | 4887 | 8080 | - | - | - |
| 0.9S-0420-335-OP | 3.7 | 11.2 | 2584 | 1324 | 1853 | - | - | - | - | - | - | 1816 | 767 | 877 | 2313 | 1083 | 1412 | 2810 | 1392 | 1947 | 3306 | 1699 | 2483 |
| 0.9S-0420-385-OP | 2.9 | 8.5 | 2569 | 1314 | 1835 | 1763 | 732 | 820 | 2419 | 1149 | 1527 | 3075 | 1557 | 2234 | 3731 | 1961 | 2941 | 4387 | 2364 | 3647 | 5043 | 2766 | 4354 |
| 0.9S-0420-435-OP | 2.4 | 6.7 | 2557 | 1306 | 1822 | 2840 | 1411 | 1980 | 3677 | 1928 | 2882 | 4515 | 2442 | 3785 | 5352 | 2956 | 4687 | 6190 | 3468 | 5589 | 7027 | 3980 | 6492 |
| 0.9S-0420-485-OP | 2.0 | 5.4 | 2549 | 1302 | 1814 | 4054 | 2159 | 3288 | 5095 | 2798 | 4410 | 6136 | 3435 | 5531 | 7177 | 4072 | 6653 | 8218 | 4709 | 7775 | - | - | - |
| 0.9S-0700-335-OP | 4.5 | 11.4 | 3305 | 1589 | 2047 | - | - | - | - | - | - | - | - | - | - | - | - | 2554 | 1005 | 1054 | 3050 | 1331 | 1589 |
| 0.9S-0700-385-OP | 3.6 | 8.7 | 3290 | 1579 | 2030 | - | - | - | - | - | - | 2819 | 1182 | 1340 | 3475 | 1601 | 2047 | 4131 | 2011 | 2754 | 4787 | 2418 | 3460 |
| 0.9S-0700-435-OP | 2.9 | 6.8 | 3278 | 1572 | 2017 | 2584 | 1026 | 1086 | 3421 | 1567 | 1988 | 4259 | 2090 | 2891 | 5096 | 2609 | 3793 | 5933 | 3125 | 4696 | 6771 | 3639 | 5598 |
| 0.9S-0700-485-OP | 2.4 | 5.4 | 3271 | 1567 | 2008 | 3798 | 1803 | 2394 | 4839 | 2450 | 3516 | 5880 | 3092 | 4637 | 6921 | 3731 | 5759 | 7961 | 4369 | 6881 | 9002 | 5007 | 8003 |
| 0.9S-0720-385-OP | 4.1 | 9.3 | 3920 | 1990 | 2751 | - | - | - | - | - | - | - | - | - | 2751 | 1137 | 1266 | 3407 | 1558 | 1973 | 4063 | 1969 | 2680 |
| 0.9S-0720-435-OP | 3.3 | 7.3 | 3908 | 1982 | 2737 | - | - | - | 2697 | 1101 | 1208 | 3534 | 1638 | 2110 | 4372 | 2161 | 3013 | 5209 | 2679 | 3915 | 6047 | 3194 | 4818 |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 61. Models 0.9S-0350-485-OP to 0.9S-0720-435-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.9S-0350-485-OP | 1.7 | 5.0 | 1914 | 879 | 1065 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0400-280-OP | 4.6 | 12.0 | 2350 | 1165 | 1564 | 2322 | 1081 | 1401 | 3016 | 1513 | 2149 | 4404 | 2368 | 3644 | 5098 | 2794 | 4392 | 6486 | 3643 | 5887 |
| 0.9S-0400-335-OP | 3.4 | 10.9 | 2338 | 1157 | 1549 | 4106 | 2185 | 3323 | 5099 | 2794 | 4393 | 7086 | 4010 | 6534 | 8079 | 4618 | 7604 | - | - | - |
| 0.9S-0400-385-OP | 2.7 | 8.2 | 2323 | 1147 | 1532 | 6002 | 3347 | 5366 | 7314 | 4150 | 6780 | - | - | - | - | - | - | - | - | - |
| 0.9S-0400-435-OP | 2.2 | 6.4 | 2311 | 1140 | 1519 | 8167 | 4672 | 7699 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0400-485-OP | 1.9 | 5.2 | 2303 | 1135 | 1510 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0420-335-OP | 3.7 | 11.2 | 2584 | 1324 | 1853 | 3803 | 2005 | 3018 | 4796 | 2615 | 4088 | 6783 | 3831 | 6229 | 7776 | 4439 | 7299 | - | - | - |
| 0.9S-0420-385-OP | 2.9 | 8.5 | 2569 | 1314 | 1835 | 5699 | 3168 | 5061 | 7011 | 3971 | 6475 | - | - | - | - | - | - | - | - | - |
| 0.9S-0420-435-OP | 2.4 | 6.7 | 2557 | 1306 | 1822 | 7864 | 4493 | 7394 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0420-485-OP | 2.0 | 5.4 | 2549 | 1302 | 1814 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0700-335-OP | 4.5 | 11.4 | 3305 | 1589 | 2047 | 3547 | 1646 | 2124 | 4540 | 2265 | 3194 | 6527 | 3489 | 5335 | 7520 | 4099 | 6405 | - | - | - |
| 0.9S-0700-385-OP | 3.6 | 8.7 | 3290 | 1579 | 2030 | 5443 | 2823 | 4167 | 6755 | 3630 | 5581 | - | - | - | - | - | - | - | - | - |
| 0.9S-0700-435-OP | 2.9 | 6.8 | 3278 | 1572 | 2017 | 7608 | 4153 | 6500 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0700-485-OP | 2.4 | 5.4 | 3271 | 1567 | 2008 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0.9S-0720-385-OP | 4.1 | 9.3 | 3920 | 1990 | 2751 | 4719 | 2376 | 3387 | 6031 | 3185 | 4801 | 8655 | 4794 | 7628 | - | - | - | - | - | - |
| 0.9S-0720-435-OP | 3.3 | 7.3 | 3908 | 1982 | 2737 | 6884 | 3709 | 5720 | 8559 | 4735 | 7525 | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 62. Models 0.9S-0720-485-OP to 1.5S-1300-585-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|------|------|------|------|-------|------|------|-------|------|-------|-------|------|-------|-------|------|-------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.9S-0720-485-OP | 2.8 | 5.9 | 3901 | 1977 | 2729 | 3073 | 1346 | 1614 | 4114 | 2001 | 2735 | 5155 | 2645 | 3857 | 6196 | 3287 | 4979 | 7237 | 3926 | 6101 | 8278 | 4563 | 7222 |
| 1.5S-0800-385-OP | 3.6 | 10.9 | 4616 | 1767 | 1947 | - | - | - | - | - | - | 3619 | 1628 | 1712 | 4379 | 2166 | 2681 | 5138 | 2687 | 3651 | 5897 | 3202 | 4621 |
| 1.5S-0800-435-OP | 3.0 | 8.5 | 4600 | 1757 | 1931 | - | - | - | 4316 | 2123 | 2601 | 5285 | 2788 | 3839 | 6254 | 3443 | 5077 | 7223 | 4094 | 6315 | 8192 | 4742 | 7553 |
| 1.5S-0800-485-OP | 2.5 | 6.8 | 4590 | 1750 | 1921 | 4751 | 2423 | 3158 | 5956 | 3242 | 4696 | 7161 | 4052 | 6235 | 8365 | 4858 | 7774 | 9570 | 5662 | 9313 | 10775 | 6465 | 10852 |
| 1.5S-0800-535-OP | 2.1 | 5.6 | 4587 | 1749 | 1919 | 6317 | 3485 | 5157 | 7782 | 4468 | 7029 | 9248 | 5447 | 8902 | 10714 | 6425 | 10774 | 12180 | 7403 | 12647 | 13646 | 8381 | 14519 |
| 1.5S-1100-385-OP | 5.0 | 12.0 | 6777 | 2589 | 2847 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4879 | 1944 | 1944 |
| 1.5S-1100-435-OP | 4.0 | 9.5 | 6761 | 2579 | 2831 | - | - | - | - | - | - | - | - | - | 5236 | 2329 | 2400 | 6205 | 3021 | 3638 | 7174 | 3690 | 4876 |
| 1.5S-1100-485-OP | 3.4 | 7.6 | 6750 | 2572 | 2822 | - | - | - | 4938 | 2020 | 2020 | 6143 | 2977 | 3559 | 7347 | 3809 | 5098 | 8552 | 4627 | 6636 | 9757 | 5438 | 8175 |
| 1.5S-1100-535-OP | 2.8 | 6.3 | 6748 | 2571 | 2819 | 5298 | 2375 | 2480 | 6764 | 3409 | 4353 | 8230 | 4409 | 6225 | 9696 | 5397 | 8098 | 11162 | 6380 | 9970 | 12628 | 7360 | 11843 |
| 1.5S-1100-585-OP | 2.5 | 5.2 | 6716 | 2550 | 2788 | 6991 | 3564 | 4642 | 8743 | 4756 | 6881 | 10496 | 5934 | 9119 | 12249 | 7107 | 11358 | 14001 | 8276 | 13597 | - | - | - |
| 1.5S-1200-385-OP | 5.7 | 12.0 | 7926 | 3315 | 3990 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1200-435-OP | 4.6 | 10.1 | 7910 | 3305 | 3975 | - | - | - | - | - | - | - | - | - | - | - | - | 5059 | 2211 | 2215 | 6028 | 2910 | 3452 |
| 1.5S-1200-485-OP | 3.8 | 8.1 | 7900 | 3299 | 3965 | - | - | - | - | - | - | 4997 | 2135 | 2135 | 6201 | 3031 | 3674 | 7406 | 3860 | 5213 | 8611 | 4677 | 6751 |
| 1.5S-1200-535-OP | 3.2 | 6.7 | 7898 | 3297 | 3963 | - | - | - | 5618 | 2620 | 2929 | 7084 | 3640 | 4801 | 8550 | 4636 | 6674 | 10016 | 5622 | 8546 | 11482 | 6604 | 10419 |
| 1.5S-1200-585-OP | 2.8 | 5.5 | 7865 | 3278 | 3931 | 5845 | 2780 | 3218 | 7597 | 3990 | 5457 | 9350 | 5175 | 7696 | 11103 | 6351 | 9934 | 12855 | 7522 | 12173 | 14608 | 8691 | 14412 |
| 1.5S-1300-385-OP | 6.7 | 12.0 | 9410 | 3982 | 4849 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1300-435-OP | 5.4 | 10.5 | 9394 | 3972 | 4833 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5111 | 1614 | 1614 |
| 1.5S-1300-485-OP | 4.5 | 8.5 | 9384 | 3966 | 4823 | - | - | - | - | - | - | - | - | - | 5284 | 1835 | 1835 | 6488 | 3023 | 3374 | 7693 | 3866 | 4913 |
| 1.5S-1300-535-OP | 3.8 | 7.0 | 9382 | 3964 | 4821 | - | - | - | - | - | - | 6167 | 2791 | 2963 | 7632 | 3824 | 4835 | 9098 | 4826 | 6708 | 10564 | 5817 | 8580 |
| 1.5S-1300-585-OP | 3.2 | 5.8 | 9349 | 3944 | 4790 | - | - | - | 6680 | 3159 | 3618 | 8432 | 4373 | 5857 | 10185 | 5561 | 8096 | 11938 | 6740 | 10335 | 13690 | 7913 | 12574 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 63. Models 0.9S-0720-485-OP to 1.5S-1300-585-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|------------------|----------------------|------------|------|------|------|----------------------------------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 0.9S-0720-485-OP | 2.8 | 5.9 | 3901 | 1977 | 2729 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-0800-385-OP | 3.6 | 10.9 | 4616 | 1767 | 1947 | 6656 | 3713 | 5590 | 8174 | 4730 | 7530 | 11211 | 6756 | 11409 | 12729 | 7769 | 13348 | - | - | - |
| 1.5S-0800-435-OP | 3.0 | 8.5 | 4600 | 1757 | 1931 | 9161 | 5389 | 8791 | 11100 | 6682 | 11267 | - | - | - | - | - | - | - | - | - |
| 1.5S-0800-485-OP | 2.5 | 6.8 | 4590 | 1750 | 1921 | 11980 | 7269 | 12391 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-0800-535-OP | 2.1 | 5.6 | 4587 | 1749 | 1919 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1100-385-OP | 5.0 | 12.0 | 6777 | 2589 | 2847 | 5638 | 2621 | 2914 | 7156 | 3678 | 4853 | 10192 | 5731 | 8732 | 11711 | 6747 | 10671 | 14747 | 8774 | 14550 |
| 1.5S-1100-435-OP | 4.0 | 9.5 | 6761 | 2579 | 2831 | 8143 | 4350 | 6114 | 10081 | 5656 | 8590 | 13958 | 8247 | 13542 | - | - | - | - | - | - |
| 1.5S-1100-485-OP | 3.4 | 7.6 | 6750 | 2572 | 2822 | 10961 | 6246 | 9714 | 13371 | 7856 | 12792 | - | - | - | - | - | - | - | - | - |
| 1.5S-1100-535-OP | 2.8 | 6.3 | 6748 | 2571 | 2819 | 14094 | 8338 | 13715 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1100-585-OP | 2.5 | 5.2 | 6716 | 2550 | 2788 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1200-385-OP | 5.7 | 12.0 | 7926 | 3315 | 3990 | 4492 | 1490 | 1490 | 6010 | 2897 | 3429 | 9046 | 4971 | 7308 | 10565 | 5991 | 9247 | 13601 | 8019 | 13126 |
| 1.5S-1200-435-OP | 4.6 | 10.1 | 7910 | 3305 | 3975 | 6997 | 3581 | 4690 | 8935 | 4896 | 7166 | 12812 | 7493 | 12118 | 14750 | 8786 | 14594 | - | - | - |
| 1.5S-1200-485-OP | 3.8 | 8.1 | 7900 | 3299 | 3965 | 9815 | 5488 | 8290 | 12225 | 7101 | 11368 | - | - | - | - | - | - | - | - | - |
| 1.5S-1200-535-OP | 3.2 | 6.7 | 7898 | 3297 | 3963 | 12948 | 7583 | 12291 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1200-585-OP | 2.8 | 5.5 | 7865 | 3278 | 3931 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1.5S-1300-385-OP | 6.7 | 12.0 | 9410 | 3982 | 4849 | - | - | - | 5092 | 1591 | 1591 | 6611 | 3110 | 3530 | 9647 | 5198 | 7409 | 12684 | 7239 | 11288 |
| 1.5S-1300-435-OP | 5.4 | 10.5 | 9394 | 3972 | 4833 | 6080 | 2727 | 2852 | 8018 | 4089 | 5328 | 9956 | 5407 | 7803 | 13832 | 8008 | 12755 | - | - | - |
| 1.5S-1300-485-OP | 4.5 | 8.5 | 9384 | 3966 | 4823 | 8898 | 4690 | 6452 | 11307 | 6317 | 9529 | 13716 | 7930 | 12607 | - | - | - | - | - | - |
| 1.5S-1300-535-OP | 3.8 | 7.0 | 9382 | 3964 | 4821 | 12030 | 6802 | 10453 | 14962 | 8762 | 14198 | - | - | - | - | - | - | - | - | - |
| 1.5S-1300-585-OP | 3.2 | 5.8 | 9349 | 3944 | 4790 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 64. Models 3S-2000-385-OP to 14S-5100-885-OP

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | | | | | |
| | | | BTO | RTO | ETO | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | |
| 3S-2000-385-OP | 5.2 | 12.0 | 11460 | 5082 | 6413 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6683 | 2694 | 2694 |
| 3S-2000-435-OP | 4.2 | 11.0 | 11434 | 5066 | 6386 | - | - | - | - | - | - | - | - | - | 7284 | 3231 | 3439 | 8913 | 4365 | 5462 | 10541 | 5465 | 7484 | |
| 3S-2000-485-OP | 3.4 | 8.9 | 11417 | 5056 | 6370 | - | - | - | 6783 | 2818 | 2818 | 8808 | 4293 | 5331 | 10832 | 5660 | 7845 | 12857 | 7008 | 10359 | 14882 | 8348 | 12873 | |
| 3S-2000-535-OP | 2.9 | 7.3 | 11413 | 5054 | 6366 | 7389 | 3306 | 3570 | 9853 | 5002 | 6629 | 12316 | 6649 | 9688 | 14780 | 8281 | 12746 | 17244 | 9905 | 15805 | 19708 | 11526 | 18864 | |
| 3S-2000-585-OP | 2.5 | 6.1 | 11360 | 5021 | 6313 | 10233 | 5258 | 7101 | 13179 | 7221 | 10758 | 16124 | 9168 | 14416 | 19070 | 11107 | 18073 | 22016 | 13042 | 21730 | 24962 | 14978 | 25388 | |
| 3S-2050-385-OP | 6.7 | 12.0 | 15396 | 6217 | 7107 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3S-2050-435-OP | 5.4 | 11.8 | 15370 | 6201 | 7081 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3S-2050-485-OP | 4.5 | 9.5 | 15353 | 6190 | 7065 | - | - | - | - | - | - | - | - | - | 9827 | 2970 | 2970 | 11852 | 5217 | 5483 | 13876 | 6639 | 7997 | |
| 3S-2050-535-OP | 3.8 | 7.8 | 15349 | 6188 | 7061 | - | - | - | - | - | - | 11311 | 4812 | 4812 | 13774 | 6568 | 7871 | 16238 | 8245 | 10930 | 18702 | 9897 | 13989 | |
| 3S-2050-585-OP | 3.2 | 6.5 | 15296 | 6154 | 7008 | - | - | - | 12173 | 5448 | 5882 | 15119 | 7488 | 9540 | 18065 | 9471 | 13197 | 21010 | 11433 | 16855 | 23956 | 13383 | 20512 | |
| 6S-2500-485-OP | 4.1 | 12.0 | 16307 | 7415 | 9589 | - | - | - | - | - | - | - | - | - | 10472 | 4816 | 5461 | 12844 | 6440 | 8394 | 15216 | 8029 | 11328 | |
| 6S-2500-535-OP | 3.4 | 11.3 | 16303 | 7412 | 9585 | - | - | - | 9324 | 3994 | 4041 | 12210 | 6011 | 7610 | 15097 | 7949 | 11180 | 17983 | 9864 | 14750 | 20869 | 11769 | 18320 | |
| 6S-2500-585-OP | 3.0 | 9.4 | 16240 | 7374 | 9523 | - | - | - | 13220 | 6693 | 8860 | 16671 | 8996 | 13128 | 20122 | 11276 | 17396 | 23573 | 13547 | 21664 | 27024 | 15812 | 25933 | |
| 6S-2500-635-OP | 2.6 | 8.0 | 16172 | 7333 | 9455 | 13399 | 6813 | 9080 | 17465 | 9522 | 14109 | 21531 | 12205 | 19138 | 25597 | 14876 | 24167 | 29663 | 17542 | 29196 | 33729 | 20208 | 34225 | |
| 6S-2500-685-OP | 2.6 | 12.0 | 16099 | 7289 | 9382 | 17325 | 9429 | 13937 | 22057 | 12550 | 19789 | 26789 | 15657 | 25641 | 31520 | 18760 | 31493 | 36252 | 21862 | 37345 | 40984 | 24964 | 43198 | |
| 6S-2500-735-OP | 2.1 | 6.0 | 16020 | 7240 | 9303 | 21550 | 12217 | 19161 | 26997 | 15794 | 25899 | 32445 | 19366 | 32637 | 37892 | 22937 | 39374 | 43340 | 26509 | 46112 | 48788 | 30080 | 52850 | |
| 6S-3800-535-OP | 4.5 | 12.0 | 22273 | 10680 | 14589 | - | - | - | - | - | - | - | - | - | - | - | - | 12862 | 6126 | 7353 | 15748 | 8081 | 10923 | |
| 6S-3800-585-OP | 3.8 | 10.3 | 22211 | 10642 | 14527 | - | - | - | - | - | - | 11551 | 5212 | 5731 | 15002 | 7579 | 10000 | 18453 | 9884 | 14268 | 21904 | 12169 | 18536 | |
| 6S-3800-635-OP | 3.3 | 8.7 | 22143 | 10601 | 14459 | - | - | - | 12344 | 5768 | 6713 | 16410 | 8524 | 11742 | 20476 | 11225 | 16771 | 24542 | 13908 | 21800 | 28609 | 16580 | 26829 | |
| 6S-3800-685-OP | 3.0 | 12.0 | 22070 | 10557 | 14386 | - | - | - | 16936 | 8875 | 12392 | 21668 | 12013 | 18244 | 26400 | 15128 | 24097 | 31131 | 18234 | 29949 | 35863 | 21336 | 35801 | |
| 6S-3800-735-OP | 2.6 | 6.5 | 21991 | 10510 | 14307 | 16429 | 8537 | 11765 | 21877 | 12151 | 18502 | 27324 | 15736 | 25240 | 32772 | 19309 | 31978 | 38219 | 22881 | 38715 | 43667 | 26453 | 45453 | |
| 6S-3900-535-OP | 4.8 | 12.0 | 24470 | 12053 | 16919 | - | - | - | - | - | - | - | - | - | - | - | - | 10534 | 4538 | 4632 | 13420 | 6557 | 8202 | |
| 6S-3900-585-OP | 4.1 | 10.5 | 24408 | 12016 | 16857 | - | - | - | - | - | - | - | - | - | 12673 | 6046 | 7278 | 16124 | 8379 | 11547 | 19575 | 10672 | 15815 | |
| 6S-3900-635-OP | 3.6 | 9.0 | 24340 | 11975 | 16789 | - | - | - | - | - | - | 14082 | 7006 | 9020 | 18148 | 9726 | 14049 | 22214 | 12415 | 19078 | 26280 | 15091 | 24107 | |
| 6S-3900-685-OP | 3.2 | 7.8 | 24266 | 11931 | 16716 | - | - | - | 14608 | 7361 | 9671 | 19340 | 10517 | 15523 | 24071 | 13639 | 21375 | 28803 | 16748 | 27228 | 33535 | 19850 | 33080 | |
| 6S-3900-735-OP | 2.8 | 6.8 | 24187 | 11883 | 16637 | 14101 | 7018 | 9044 | 19548 | 10654 | 15781 | 24996 | 14247 | 22519 | 30443 | 17823 | 29257 | 35891 | 21395 | 35994 | 41339 | 24966 | 42732 | |
| 14S-5100-635-OP | 3.6 | 12.0 | 27158 | 12811 | 17370 | - | - | - | - | - | - | 15715 | 7832 | 9814 | 20082 | 10813 | 15393 | 24450 | 13754 | 20972 | 28817 | 16678 | 26551 | |
| 14S-5100-685-OP | 3.2 | 11.9 | 27077 | 12763 | 17292 | - | - | - | 16280 | 8222 | 10536 | 21362 | 11678 | 17028 | 26445 | 15091 | 23520 | 31527 | 18486 | 30013 | 36609 | 21877 | 36505 | |
| 14S-5100-735-OP | 2.9 | 10.3 | 26989 | 12711 | 17207 | 15735 | 7846 | 9840 | 21586 | 11828 | 17314 | 27438 | 15755 | 24789 | 33289 | 19661 | 32264 | 39140 | 23565 | 39738 | 44992 | 27469 | 47213 | |
| 14S-5100-785-OP | 2.6 | 9.0 | 26895 | 12655 | 17117 | 20592 | 11158 | 16044 | 27266 | 15640 | 24570 | 33941 | 20096 | 33096 | 40615 | 24549 | 41622 | 47290 | 29002 | 50148 | 53965 | 33454 | 58675 | |
| 14S-5100-835-OP | 2.3 | 8.0 | 26795 | 12596 | 17020 | 25768 | 14638 | 22656 | 33320 | 19682 | 32303 | 40872 | 24720 | 41950 | 48424 | 29758 | 51597 | 55976 | 34794 | 61244 | 63528 | 39825 | 70890 | |
| 14S-5100-885-OP | 2.1 | 7.1 | 26689 | 12533 | 16918 | 31264 | 18310 | 29676 | 39747 | 23970 | 40513 | 48231 | 29629 | 51350 | 56714 | 35286 | 62187 | 65198 | 40937 | 73024 | 73681 | 46589 | 83860 | |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 65. Models 3S-2000-385-OP to 14S-5100-885-OP

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|
| | | | BTO | RTO | ETO | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 3S-2000-385-OP | 5.2 | 12.0 | 11460 | 5082 | 6413 | 7959 | 3708 | 4278 | 10511 | 5444 | 7446 | 15614 | 8832 | 13782 | 23270 | 13866 | 23287 | - | - | - |
| 3S-2000-435-OP | 4.2 | 11.0 | 11434 | 5066 | 6386 | 12170 | 6552 | 9506 | 15428 | 8709 | 13551 | 21943 | 12994 | 21640 | - | - | - | - | - | - |
| 3S-2000-485-OP | 3.4 | 8.9 | 11417 | 5056 | 6370 | 16907 | 9683 | 15387 | 20956 | 12346 | 20415 | - | - | - | - | - | - | - | - | - |
| 3S-2000-535-OP | 2.9 | 7.3 | 11413 | 5054 | 6366 | 22171 | 13144 | 21923 | 27099 | 16382 | 28041 | - | - | - | - | - | - | - | - | - |
| 3S-2000-585-OP | 2.5 | 6.1 | 11360 | 5021 | 6313 | 27908 | 16913 | 29045 | - | - | - | - | - | - | - | - | - | - | - | - |
| 3S-2050-385-OP | 6.7 | 12.0 | 15396 | 6217 | 7107 | - | - | - | 9505 | 2570 | 2570 | 12057 | 5365 | 5738 | 17161 | 8865 | 12075 | 22264 | 12264 | 18411 |
| 3S-2050-435-OP | 5.4 | 11.8 | 15370 | 6201 | 7081 | 11165 | 4631 | 4631 | 14422 | 7013 | 8675 | 17680 | 9214 | 12720 | 24195 | 13541 | 20809 | - | - | - |
| 3S-2050-485-OP | 4.5 | 9.5 | 15353 | 6190 | 7065 | 15901 | 8018 | 10511 | 19951 | 10728 | 15539 | 24000 | 13412 | 20567 | - | - | - | - | - | - |
| 3S-2050-535-OP | 3.8 | 7.8 | 15349 | 6188 | 7061 | 21166 | 11536 | 17047 | 26093 | 14794 | 23165 | - | - | - | - | - | - | - | - | - |
| 3S-2050-585-OP | 3.2 | 6.5 | 15296 | 6154 | 7008 | 26902 | 15327 | 24169 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6S-2500-485-OP | 4.1 | 12.0 | 16307 | 7415 | 9589 | 17588 | 9603 | 14262 | 22332 | 12731 | 20129 | 31820 | 18956 | 31864 | 46052 | 28287 | 49466 | 14747 | 8774 | 14550 |
| 6S-2500-535-OP | 3.4 | 11.3 | 16303 | 7412 | 9585 | 23755 | 13667 | 21890 | 29528 | 17453 | 29029 | 41073 | 25023 | 43308 | - | - | - | - | - | - |
| 6S-2500-585-OP | 3.0 | 9.4 | 16240 | 7374 | 9523 | 30475 | 18074 | 30201 | 37377 | 22600 | 38737 | 51181 | 31650 | 55810 | - | - | - | - | - | - |
| 6S-2500-635-OP | 2.6 | 8.0 | 16172 | 7333 | 9455 | 37795 | 22874 | 39254 | 45928 | 28205 | 49312 | - | - | - | - | - | - | - | - | - |
| 6S-2500-685-OP | 2.6 | 12.0 | 16099 | 7289 | 9382 | 45715 | 28066 | 49050 | - | - | - | - | - | - | - | - | - | - | - | - |
| 6S-2500-735-OP | 2.1 | 6.0 | 16020 | 7240 | 9303 | 54235 | 33652 | 59587 | - | - | - | - | - | - | - | - | - | 13601 | 8019 | 13126 |
| 6S-3800-535-OP | 4.5 | 12.0 | 22273 | 10680 | 14589 | 18635 | 10005 | 14493 | 24407 | 13819 | 21632 | 35953 | 21395 | 35912 | 53270 | 32749 | 57330 | - | - | - |
| 6S-3800-585-OP | 3.8 | 10.3 | 22211 | 10642 | 14527 | 25355 | 14442 | 22804 | 32257 | 18972 | 31341 | 46061 | 28022 | 48413 | - | - | - | - | - | - |
| 6S-3800-635-OP | 3.3 | 8.7 | 22143 | 10601 | 14459 | 32675 | 19246 | 31858 | 40807 | 24577 | 41916 | - | - | - | - | - | - | - | - | - |
| 6S-3800-685-OP | 3.0 | 12.0 | 22070 | 10557 | 14386 | 40595 | 24438 | 41653 | 50058 | 30643 | 53357 | - | - | - | - | - | - | - | - | - |
| 6S-3800-735-OP | 2.6 | 6.5 | 21991 | 10510 | 14307 | 49115 | 30024 | 52191 | - | - | - | - | - | - | - | - | - | 12684 | 7239 | 11288 |
| 6S-3900-535-OP | 4.8 | 12.0 | 24470 | 12053 | 16919 | 16306 | 8500 | 11772 | 22079 | 12326 | 18911 | 27852 | 16124 | 26051 | 39397 | 23693 | 40330 | 50942 | 31262 | 54609 |
| 6S-3900-585-OP | 4.1 | 10.5 | 24408 | 12016 | 16857 | 23026 | 12950 | 20083 | 29928 | 17486 | 28620 | 36830 | 22011 | 37156 | 50634 | 31061 | 54229 | - | - | - |
| 6S-3900-635-OP | 3.6 | 9.0 | 24340 | 11975 | 16789 | 30346 | 17760 | 29136 | 38479 | 23091 | 39194 | 46611 | 28423 | 49252 | - | - | - | - | - | - |
| 6S-3900-685-OP | 3.2 | 7.8 | 24266 | 11931 | 16716 | 38266 | 22952 | 38932 | 47730 | 29156 | 50636 | - | - | - | - | - | - | - | - | - |
| 6S-3900-735-OP | 2.8 | 6.8 | 24187 | 11883 | 16637 | 46786 | 28538 | 49469 | - | - | - | - | - | - | - | - | - | - | - | - |
| 14S-5100-635-OP | 3.6 | 12.0 | 27158 | 12811 | 17370 | 33185 | 19592 | 32130 | 41920 | 25419 | 43288 | 59390 | 37068 | 65605 | 85595 | 54518 | 99079 | - | - | - |
| 14S-5100-685-OP | 3.2 | 11.9 | 27077 | 12763 | 17292 | 41692 | 25267 | 42997 | 51856 | 32048 | 55982 | 72186 | 45593 | 81951 | - | - | - | - | - | - |
| 14S-5100-735-OP | 2.9 | 10.3 | 26989 | 12711 | 17207 | 50843 | 31372 | 54687 | 62546 | 39171 | 69636 | 85952 | 54756 | 99535 | - | - | - | - | - | - |
| 14S-5100-785-OP | 2.6 | 9.0 | 26895 | 12655 | 17117 | 60639 | 37900 | 67201 | 73988 | 46793 | 84253 | 100687 | 64562 | 118358 | - | - | - | - | - | - |
| 14S-5100-835-OP | 2.3 | 8.0 | 26795 | 12596 | 17020 | 71080 | 44856 | 80537 | 86183 | 54910 | 99831 | - | - | - | - | - | - | - | - | - |
| 14S-5100-885-OP | 2.1 | 7.1 | 26689 | 12533 | 16918 | 82164 | 52235 | 94697 | 99131 | 63527 | 116371 | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 66. Models 14S-5100-935-OP to 14S-8300-935-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 14S-5100-935-OP | 2.0 | 6.4 | 26577 | 12466 | 16809 | 37079 | 22190 | 37105 | 46548 | 28507 | 49201 | 56017 | 34821 | 61297 | 65486 | 41130 | 73393 | 74956 | 47438 | 85488 | 84425 | 53740 | 97584 |
| 14S-5400-635-OP | 4.5 | 12.0 | 35100 | 15878 | 20665 | - | - | - | - | - | - | - | - | - | - | - | - | 20720 | 9770 | 11134 | 25087 | 12808 | 16713 |
| 14S-5400-685-OP | 4.0 | 12.0 | 35019 | 15830 | 20587 | - | - | - | - | - | - | - | - | - | 22715 | 11170 | 13682 | 27797 | 14658 | 20174 | 32879 | 18095 | 26667 |
| 14S-5400-735-OP | 3.5 | 11.0 | 34931 | 15777 | 20502 | - | - | - | - | - | - | 23708 | 11858 | 14951 | 29559 | 15853 | 22425 | 35410 | 19797 | 29900 | 41262 | 23717 | 37374 |
| 14S-5400-785-OP | 3.1 | 9.6 | 34837 | 15721 | 20412 | - | - | - | 23536 | 11740 | 14732 | 30211 | 16294 | 23258 | 36885 | 20787 | 31784 | 43560 | 25254 | 40310 | 50235 | 29707 | 48836 |
| 14S-5400-835-OP | 2.8 | 8.5 | 34737 | 15661 | 20315 | 22038 | 10698 | 12818 | 29590 | 15874 | 22465 | 37142 | 20959 | 32112 | 44694 | 26011 | 41758 | 52246 | 31049 | 51405 | 59798 | 36087 | 61052 |
| 14S-5400-885-OP | 2.6 | 7.6 | 34631 | 15598 | 20213 | 27534 | 14479 | 19838 | 36017 | 20204 | 30675 | 44501 | 25882 | 41512 | 52984 | 31541 | 52349 | 61468 | 37201 | 63185 | 69951 | 42860 | 74022 |
| 14S-5400-935-OP | 2.4 | 6.8 | 34519 | 15530 | 20104 | 33349 | 18411 | 27267 | 42818 | 24758 | 39363 | 52287 | 31077 | 51459 | 61756 | 37394 | 63554 | 71226 | 43711 | 75650 | 80695 | 50027 | 87746 |
| 14S-8300-735-OP | 4.3 | 11.8 | 44975 | 20479 | 26826 | - | - | - | - | - | - | - | - | - | 22880 | 9983 | 9983 | 28732 | 14174 | 17457 | 34583 | 18190 | 24932 |
| 14S-8300-785-OP | 3.9 | 10.4 | 44881 | 20423 | 26736 | - | - | - | - | - | - | 23532 | 10477 | 10815 | 30207 | 15195 | 19342 | 36881 | 19750 | 27868 | 43556 | 24251 | 36394 |
| 14S-8300-835-OP | 3.5 | 9.2 | 44781 | 20363 | 26639 | - | - | - | - | - | - | 30463 | 15372 | 19669 | 38015 | 20517 | 29316 | 45567 | 25601 | 38963 | 53119 | 30658 | 48610 |
| 14S-8300-885-OP | 3.2 | 8.1 | 44675 | 20300 | 26537 | - | - | - | 29338 | 14595 | 18233 | 37822 | 20386 | 29069 | 46305 | 26097 | 39906 | 54789 | 31775 | 50743 | 63272 | 37434 | 61580 |
| 14S-8300-935-OP | 2.9 | 7.3 | 44563 | 20233 | 26428 | 26670 | 12733 | 14824 | 36139 | 19248 | 26920 | 45609 | 25629 | 39016 | 55078 | 31968 | 51112 | 64547 | 38285 | 63208 | 74016 | 44602 | 75304 |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 67. Models 14S-5100-935-OP to 14S-8300-935-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | |
|-----------------|----------------------|------------|-------|-------|-------|----------------------------------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|-------|-------|--------|---|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | |
| 14S-5100-935-OP | 2.0 | 6.4 | 26577 | 12466 | 16809 | 93894 | 60041 | 109680 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 14S-5400-635-OP | 4.5 | 12.0 | 35100 | 15878 | 20665 | 29455 | 15783 | 22292 | 38190 | 21662 | 33450 | 55660 | 33326 | 55766 | 64395 | 39154 | 66925 | 81865 | 50806 | 89241 | |
| 14S-5400-685-OP | 4.0 | 12.0 | 35019 | 15830 | 20587 | 37962 | 21509 | 33159 | 48126 | 28301 | 46143 | 68456 | 41863 | 72112 | 78621 | 48644 | 85097 | 98950 | 62188 | 111066 | |
| 14S-5400-735-OP | 3.5 | 11.0 | 34931 | 15777 | 20502 | 47113 | 27625 | 44849 | 58816 | 35432 | 59798 | 82222 | 51044 | 89697 | 93925 | 58840 | 104646 | - | - | - | |
| 14S-5400-785-OP | 3.1 | 9.6 | 34837 | 15721 | 20412 | 56909 | 34160 | 57362 | 70258 | 43065 | 74415 | 96957 | 60860 | 108519 | - | - | - | - | - | - | |
| 14S-5400-835-OP | 2.8 | 8.5 | 34737 | 15661 | 20315 | 67350 | 41125 | 70699 | 82453 | 51198 | 89993 | - | - | - | - | - | - | - | - | - | |
| 14S-5400-885-OP | 2.6 | 7.6 | 34631 | 15598 | 20213 | 78434 | 48520 | 84859 | 95401 | 59824 | 106532 | - | - | - | - | - | - | - | - | - | |
| 14S-5400-935-OP | 2.4 | 6.8 | 34519 | 15530 | 20104 | 90164 | 56335 | 99842 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 14S-8300-735-OP | 4.3 | 11.8 | 44975 | 20479 | 26826 | 40434 | 22150 | 32407 | 52137 | 30001 | 47356 | 75543 | 45620 | 77254 | 87246 | 53427 | 92203 | - | - | - | |
| 14S-8300-785-OP | 3.9 | 10.4 | 44881 | 20423 | 26736 | 50230 | 28726 | 44920 | 63580 | 37639 | 61972 | 90278 | 55450 | 96077 | 103627 | 64352 | 113129 | - | - | - | |
| 14S-8300-835-OP | 3.5 | 9.2 | 44781 | 20363 | 26639 | 60671 | 35699 | 58257 | 75775 | 45775 | 77550 | 105982 | 65922 | 116138 | - | - | - | - | - | - | |
| 14S-8300-885-OP | 3.2 | 8.1 | 44675 | 20300 | 26537 | 71756 | 43094 | 72416 | 88723 | 54413 | 94090 | - | - | - | - | - | - | - | - | - | |
| 14S-8300-935-OP | 2.9 | 7.3 | 44563 | 20233 | 26428 | 83485 | 50919 | 87400 | 102423 | 63550 | 111591 | - | - | - | - | - | - | - | - | - | |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 68. Models 18S-9600-835-OP to 18S-11000-1300-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|-------|-------|----------------------------------|-------|-------|--------|-------|-------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 18S-9600-835-OP | 4.6 | 12.0 | 71007 | 29097 | 34300 | - | - | - | - | - | - | - | - | - | - | - | - | 47292 | 20611 | 20611 | 55980 | 26903 | 31701 |
| 18S-9600-935-OP | 3.8 | 9.7 | 70755 | 28943 | 34057 | - | - | - | - | - | - | 47340 | 20669 | 20672 | 58233 | 28479 | 34578 | 69126 | 35975 | 48485 | 80020 | 43364 | 62391 |
| 18S-9600-1000-OP | 3.4 | 8.6 | 70577 | 28833 | 33885 | - | - | - | 47261 | 20571 | 20571 | 59721 | 29514 | 36478 | 72181 | 38054 | 52385 | 84642 | 46480 | 68292 | 97102 | 54850 | 84198 |
| 18S-9600-1100-OP | 2.9 | 7.0 | 70279 | 28650 | 33597 | 50239 | 22812 | 24372 | 65316 | 33370 | 43620 | 80393 | 43616 | 62867 | 95470 | 53755 | 82115 | 110547 | 63846 | 101362 | 125624 | 73906 | 120610 |
| 18S-9600-1200-OP | 2.5 | 5.5 | 69952 | 28449 | 33282 | 67147 | 34624 | 45958 | 85090 | 46782 | 68864 | 103033 | 58821 | 91770 | 120976 | 70806 | 114676 | 138919 | 82772 | 137582 | 156862 | 94738 | 160488 |
| 18S-9600-1300-OP | 2.2 | 5.0 | 69598 | 28232 | 32940 | 85526 | 47075 | 69421 | 106584 | 61196 | 96304 | 127642 | 75252 | 123187 | 148700 | 89295 | 150069 | 169758 | 103339 | 176952 | - | - | - |
| 18S-9800-835-OP | 5.7 | 12.0 | 90360 | 36648 | 42752 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9800-935-OP | 4.6 | 10.5 | 90109 | 36493 | 42509 | - | - | - | - | - | - | - | - | - | - | - | - | 59652 | 24510 | 24510 | 70545 | 33419 | 38417 |
| 18S-9800-1000-OP | 4.1 | 9.2 | 89930 | 36383 | 42337 | - | - | - | - | - | - | - | - | - | 62707 | 27761 | 28410 | 75167 | 36665 | 44317 | 87627 | 45254 | 60224 |
| 18S-9800-1100-OP | 3.5 | 7.6 | 89632 | 36198 | 42049 | - | - | - | - | - | - | 70918 | 33683 | 38893 | 85995 | 44140 | 58141 | 101072 | 54389 | 77388 | 116149 | 64553 | 96635 |
| 18S-9800-1200-OP | 3.0 | 6.4 | 89306 | 35996 | 41734 | - | - | - | 75616 | 36977 | 44890 | 93559 | 49296 | 67796 | 111501 | 61425 | 90702 | 129444 | 73472 | 113608 | 147387 | 85470 | 136514 |
| 18S-9800-1300-OP | 2.7 | 5.4 | 88951 | 35777 | 41392 | 76052 | 37280 | 45447 | 97110 | 51709 | 72330 | 118168 | 65908 | 99212 | 139226 | 80013 | 126095 | 160284 | 94071 | 152978 | - | - | - |
| 18S-10500-935-OP | 5.3 | 10.9 | 105334 | 42899 | 50258 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 62091 | 19556 | 19556 |
| 18S-10500-1000-OP | 4.7 | 9.5 | 105156 | 42790 | 50086 | - | - | - | - | - | - | - | - | - | - | - | - | 66713 | 25457 | 25457 | 79173 | 36941 | 41364 |
| 18S-10500-1100-OP | 4.0 | 7.8 | 104858 | 42607 | 49798 | - | - | - | - | - | - | - | - | - | 77541 | 35772 | 39280 | 92618 | 46351 | 58527 | 107695 | 56671 | 77775 |
| 18S-10500-1200-OP | 3.4 | 6.6 | 104531 | 42406 | 49483 | - | - | - | 67161 | 26029 | 26029 | 85104 | 41130 | 48935 | 103047 | 53506 | 71841 | 120990 | 65678 | 94747 | 138933 | 77750 | 117654 |
| 18S-10500-1300-OP | 3.0 | 5.5 | 104176 | 42188 | 49141 | - | - | - | 88656 | 43607 | 53469 | 109714 | 58043 | 80352 | 130771 | 72267 | 107234 | 151829 | 86396 | 134117 | 172887 | 100473 | 161000 |
| 18S-11000-935-OP | 5.9 | 1.4 | 118281 | 50792 | 62758 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-11000-1000-OP | 5.2 | 10.0 | 118103 | 50684 | 62585 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 66610 | 25325 | 25325 |
| 18S-11000-1100-OP | 4.4 | 8.3 | 117805 | 50504 | 62298 | - | - | - | - | - | - | - | - | - | 64977 | 23241 | 23241 | 80054 | 37568 | 42488 | 95131 | 48084 | 61736 |
| 18S-11000-1200-OP | 3.8 | 6.9 | 117478 | 50306 | 61983 | - | - | - | - | - | - | 72541 | 32126 | 32896 | 90484 | 44876 | 55803 | 108426 | 57168 | 78709 | 126369 | 69303 | 101615 |
| 18S-11000-1300-OP | 3.3 | 5.5 | 117124 | 50091 | 61640 | - | - | - | 76092 | 34727 | 37430 | 97150 | 49470 | 64313 | 118208 | 63796 | 91196 | 139266 | 77973 | 118078 | 160324 | 92077 | 144961 |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 69. Models 18S-9600-835-OP to 18S-11000-1300-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|-------|-------|----------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 18S-9600-835-OP | 4.6 | 12.0 | 71007 | 29097 | 34300 | 64668 | 32925 | 42792 | 82043 | 44730 | 64974 | 116793 | 68017 | 109337 | 134169 | 79604 | 131518 | 168919 | 102779 | 175881 |
| 18S-9600-935-OP | 3.8 | 9.7 | 70755 | 28943 | 34057 | 90913 | 50698 | 76297 | 112699 | 65285 | 104110 | 156272 | 94344 | 159735 | - | - | - | - | - | - |
| 18S-9600-1000-OP | 3.4 | 8.6 | 70577 | 28833 | 33885 | 109562 | 63188 | 100105 | 134483 | 79814 | 131919 | - | - | - | - | - | - | - | - | - |
| 18S-9600-1100-OP | 2.9 | 7.0 | 70279 | 28650 | 33597 | 140701 | 83960 | 139857 | 170855 | 104070 | 178352 | - | - | - | - | - | - | - | - | - |
| 18S-9600-1200-OP | 2.5 | 5.5 | 69952 | 28449 | 33282 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9600-1300-OP | 2.2 | 5.0 | 69598 | 28232 | 32940 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9800-835-OP | 5.7 | 12.0 | 90360 | 36648 | 42752 | 55193 | 18818 | 18818 | 72568 | 34846 | 41000 | 107319 | 58608 | 85363 | 124694 | 70286 | 107544 | 159445 | 93512 | 151907 |
| 18S-9800-935-OP | 4.6 | 10.5 | 90109 | 36493 | 42509 | 81438 | 41010 | 52323 | 103224 | 55845 | 80136 | 146797 | 85076 | 135761 | 168583 | 99606 | 163573 | - | - | - |
| 18S-9800-1000-OP | 4.1 | 9.2 | 89930 | 36383 | 42337 | 100088 | 53724 | 76131 | 125008 | 70497 | 107945 | 174850 | 103785 | 171573 | - | - | - | - | - | - |
| 18S-9800-1100-OP | 3.5 | 7.6 | 89632 | 36198 | 42049 | 131226 | 74664 | 115883 | 161380 | 94802 | 154378 | - | - | - | - | - | - | - | - | - |
| 18S-9800-1200-OP | 3.0 | 6.4 | 89306 | 35996 | 41734 | 165330 | 97436 | 159420 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-9800-1300-OP | 2.7 | 5.4 | 88951 | 35777 | 41392 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-10500-935-OP | 5.3 | 10.9 | 105334 | 42899 | 50258 | 72984 | 32454 | 33462 | 94770 | 47836 | 61275 | 138343 | 77354 | 116900 | 160129 | 91947 | 144713 | - | - | - |
| 18S-10500-1000-OP | 4.7 | 9.5 | 105156 | 42790 | 50086 | 91634 | 45671 | 57271 | 116554 | 62678 | 89085 | 166396 | 96137 | 152713 | - | - | - | - | - | - |
| 18S-10500-1100-OP | 4.0 | 7.8 | 104858 | 42607 | 49798 | 122772 | 66880 | 97022 | 152926 | 87130 | 135517 | - | - | - | - | - | - | - | - | - |
| 18S-10500-1200-OP | 3.4 | 6.6 | 104531 | 42406 | 49483 | 156876 | 89771 | 140560 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-10500-1300-OP | 3.0 | 5.5 | 104176 | 42188 | 49141 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-11000-935-OP | 5.9 | 1.4 | 118281 | 50792 | 62758 | 60420 | 17423 | 17423 | 82207 | 39093 | 45236 | 125779 | 68905 | 100861 | 147565 | 83542 | 128674 | - | - | - |
| 18S-11000-1000-OP | 5.2 | 10.0 | 118103 | 50684 | 62585 | 79070 | 36868 | 41232 | 103991 | 54150 | 73046 | 153832 | 87736 | 136674 | 178753 | 104385 | 168488 | - | - | - |
| 18S-11000-1100-OP | 4.4 | 8.3 | 117805 | 50504 | 62298 | 110208 | 58379 | 80983 | 140362 | 78709 | 119478 | - | - | - | - | - | - | - | - | - |
| 18S-11000-1200-OP | 3.8 | 6.9 | 117478 | 50306 | 61983 | 144312 | 81359 | 124521 | - | - | - | - | - | - | - | - | - | - | - | - |
| 18S-11000-1300-OP | 3.3 | 5.5 | 117124 | 50091 | 61640 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 70. Models 32S-9900-1100-OP to 50S-17300-1450-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|-------|-------|----------------------------------|-------|-------|--------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 32S-9900-1100-OP | 3.6 | 10.9 | 108771 | 41715 | 45355 | - | - | - | - | - | - | 88027 | 38371 | 39438 | 105943 | 51021 | 61799 | 123859 | 63230 | 84160 | 141775 | 75268 | 106522 |
| 32S-9900-1200-OP | 3.1 | 9.1 | 108392 | 41471 | 44981 | - | - | - | 93609 | 42401 | 46405 | 114931 | 57174 | 73017 | 136252 | 71566 | 99628 | 157573 | 85807 | 126240 | 178895 | 99964 | 152852 |
| 32S-9900-1300-OP | 2.8 | 7.8 | 107980 | 41205 | 44574 | 94127 | 42771 | 47052 | 119150 | 60042 | 78284 | 144174 | 76871 | 109515 | 169197 | 93534 | 140747 | 194220 | 110115 | 171979 | 219243 | 126642 | 203211 |
| 32S-12000-1100-OP | 4.3 | 10.9 | 133041 | 53423 | 60902 | - | - | - | - | - | - | - | - | - | 89510 | 31734 | 31734 | 107426 | 48949 | 54096 | 125342 | 61395 | 76457 |
| 32S-12000-1200-OP | 3.7 | 9.1 | 132662 | 53184 | 60528 | - | - | - | - | - | - | 98498 | 42489 | 42952 | 119819 | 57600 | 69564 | 141141 | 72132 | 96175 | 162462 | 86452 | 122787 |
| 32S-12000-1300-OP | 3.2 | 7.8 | 132250 | 52926 | 60121 | - | - | - | 102718 | 45580 | 48219 | 127741 | 63036 | 79451 | 152764 | 79953 | 110682 | 177787 | 96675 | 141914 | 202810 | 113291 | 173146 |
| 32S-15000-1100-OP | 4.9 | 11.3 | 155157 | 64801 | 76975 | - | - | - | - | - | - | - | - | - | - | - | - | 90719 | 26700 | 26700 | 108635 | 47499 | 49061 |
| 32S-15000-1200-OP | 4.2 | 9.5 | 154777 | 64566 | 76600 | - | - | - | - | - | - | - | - | - | 103113 | 42168 | 42168 | 124434 | 58720 | 68779 | 145755 | 73339 | 95391 |
| 32S-15000-1300-OP | 3.7 | 8.1 | 154365 | 64311 | 76193 | - | - | - | - | - | - | 111034 | 49246 | 52055 | 136057 | 66733 | 83287 | 161080 | 83686 | 114518 | 186103 | 100432 | 145750 |
| 50S-15400-1100-OP | 4.8 | 12.0 | 167631 | 65357 | 72018 | - | - | - | - | - | - | - | - | - | - | - | - | 114003 | 34976 | 34976 | 133965 | 58148 | 59762 |
| 50S-15400-1200-OP | 4.1 | 11.2 | 167211 | 65088 | 71601 | - | - | - | - | - | - | - | - | - | 127812 | 52121 | 52121 | 151569 | 70671 | 81618 | 175326 | 86979 | 111114 |
| 50S-15400-1300-OP | 3.6 | 9.5 | 166754 | 64795 | 71148 | - | - | - | - | - | - | 136638 | 60095 | 63080 | 164520 | 79613 | 97697 | 192402 | 98517 | 132314 | 220284 | 117180 | 166932 |
| 50S-15400-1450-OP | 3.0 | 7.7 | 166000 | 64313 | 70399 | - | - | - | 155714 | 73548 | 86764 | 190402 | 97173 | 129831 | 225089 | 120377 | 172897 | 259777 | 143402 | 215964 | 294464 | 166325 | 259031 |
| 50S-15600-1100-OP | 5.0 | 12.0 | 175439 | 70327 | 79769 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 126175 | 50089 | 50089 |
| 50S-15600-1200-OP | 4.3 | 11.4 | 175018 | 70063 | 79352 | - | - | - | - | - | - | - | - | - | 120021 | 42449 | 42449 | 143779 | 65204 | 71945 | 167536 | 81674 | 101442 |
| 50S-15600-1300-OP | 3.7 | 9.7 | 174561 | 69773 | 78898 | - | - | - | - | - | - | 128848 | 53408 | 53408 | 156730 | 74252 | 88025 | 184612 | 93265 | 122642 | 212494 | 111977 | 157259 |
| 50S-15600-1450-OP | 3.1 | 7.8 | 173808 | 69294 | 78150 | - | - | - | 147924 | 68125 | 77092 | 182611 | 91915 | 120159 | 217299 | 115188 | 163225 | 251986 | 138239 | 206292 | 286674 | 161180 | 249359 |
| 50S-17300-1100-OP | 5.4 | 12.0 | 191865 | 78197 | 90253 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 115079 | 29741 | 29741 |
| 50S-17300-1200-OP | 4.6 | 11.7 | 191444 | 77932 | 89836 | - | - | - | - | - | - | - | - | - | - | - | - | 132683 | 51597 | 51597 | 156441 | 71900 | 81094 |
| 50S-17300-1300-OP | 4.0 | 10.0 | 190987 | 77644 | 89383 | - | - | - | - | - | - | - | - | - | 145634 | 64213 | 67677 | 173516 | 83735 | 102294 | 201398 | 102663 | 136911 |
| 50S-17300-1450-OP | 3.4 | 8.0 | 190234 | 77169 | 88634 | - | - | - | 136828 | 56744 | 56744 | 171516 | 82359 | 99810 | 206203 | 105892 | 142877 | 240891 | 129078 | 185944 | 275578 | 152100 | 229011 |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 71. Models 32S-9900-1100-OP to 50S-17300-1450-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|-------|-------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 32S-9900-1100-OP | 3.6 | 10.9 | 108771 | 41715 | 45355 | 159691 | 87215 | 128883 | 195523 | 110976 | 173605 | 267186 | 158238 | 263050 | 303018 | 181844 | 307772 | - | - | - |
| 32S-9900-1200-OP | 3.1 | 9.1 | 108392 | 41471 | 44981 | 200216 | 114076 | 179463 | 242859 | 142210 | 232687 | - | - | - | - | - | - | - | - | - |
| 32S-9900-1300-OP | 2.8 | 7.8 | 107980 | 41205 | 44574 | 244266 | 143137 | 234442 | 294312 | 176109 | 296906 | - | - | - | - | - | - | - | - | - |
| 32S-12000-1100-OP | 4.3 | 10.9 | 133041 | 53423 | 60902 | 143258 | 73558 | 98818 | 179090 | 97541 | 143540 | 250754 | 144990 | 232985 | 286586 | 168605 | 277707 | - | - | - |
| 32S-12000-1200-OP | 3.7 | 9.1 | 132662 | 53184 | 60528 | 183784 | 100661 | 149399 | 226427 | 128923 | 202622 | 311712 | 185159 | 309069 | - | - | - | - | - | - |
| 32S-12000-1300-OP | 3.2 | 7.8 | 132250 | 52926 | 60121 | 227833 | 129852 | 204378 | 277879 | 162869 | 266841 | - | - | - | - | - | - | - | - | - |
| 32S-15000-1100-OP | 4.9 | 11.3 | 155157 | 64801 | 76975 | 126551 | 60192 | 71422 | 162383 | 84564 | 116145 | 234047 | 132260 | 205589 | 269879 | 155935 | 250312 | - | - | - |
| 32S-15000-1200-OP | 4.2 | 9.5 | 154777 | 64566 | 76600 | 167077 | 87711 | 122003 | 209720 | 116142 | 175226 | 295006 | 172499 | 281673 | - | - | - | - | - | - |
| 32S-15000-1300-OP | 3.7 | 8.1 | 154365 | 64311 | 76193 | 211126 | 117077 | 176982 | 261173 | 150184 | 239445 | - | - | - | - | - | - | - | - | - |
| 50S-15400-1100-OP | 4.8 | 12.0 | 167631 | 65357 | 72018 | 153928 | 72311 | 84547 | 193854 | 99492 | 134117 | 273705 | 152614 | 233257 | 313631 | 178959 | 282828 | 393483 | 231477 | 381968 |
| 50S-15400-1200-OP | 4.1 | 11.2 | 167211 | 65088 | 71601 | 199084 | 103003 | 140610 | 246599 | 134668 | 199603 | 341629 | 197397 | 317588 | 389143 | 228626 | 376581 | - | - | - |
| 50S-15400-1300-OP | 3.6 | 9.5 | 166754 | 64795 | 71148 | 248166 | 135707 | 201549 | 303930 | 172571 | 270783 | 415458 | 245914 | 409252 | - | - | - | - | - | - |
| 50S-15400-1450-OP | 3.0 | 7.7 | 166000 | 64313 | 70399 | 329152 | 189181 | 302098 | 398527 | 234791 | 388231 | - | - | - | - | - | - | - | - | - |
| 50S-15600-1100-OP | 5.0 | 12.0 | 175439 | 70327 | 79769 | 146138 | 66868 | 74874 | 186064 | 94245 | 124445 | 265915 | 147469 | 223585 | 305841 | 173829 | 273155 | 385692 | 226359 | 372296 |
| 50S-15600-1200-OP | 4.3 | 11.4 | 175018 | 70063 | 79352 | 191294 | 97773 | 130938 | 238808 | 129504 | 189931 | 333838 | 192267 | 307916 | 381353 | 223508 | 366909 | - | - | - |
| 50S-15600-1300-OP | 3.7 | 9.7 | 174561 | 69773 | 78898 | 240376 | 130544 | 191877 | 296140 | 167432 | 261111 | 407668 | 240796 | 399580 | - | - | - | - | - | - |
| 50S-15600-1450-OP | 3.1 | 7.8 | 173808 | 69294 | 78150 | 321361 | 184050 | 292425 | 390736 | 229673 | 378559 | - | - | - | - | - | - | - | - | - |
| 50S-17300-1100-OP | 5.4 | 12.0 | 191865 | 78197 | 90253 | 135042 | 54526 | 54526 | 174968 | 84729 | 104097 | 254819 | 138343 | 203237 | 294745 | 164774 | 252807 | 374597 | 217403 | 351948 |
| 50S-17300-1200-OP | 4.6 | 11.7 | 191444 | 77932 | 89836 | 180198 | 88303 | 110590 | 227713 | 120296 | 169583 | 322743 | 183259 | 287568 | 370258 | 214550 | 346561 | - | - | - |
| 50S-17300-1300-OP | 4.0 | 10.0 | 190987 | 77644 | 89383 | 229280 | 121343 | 171529 | 285044 | 158366 | 240763 | 396572 | 231840 | 379232 | - | - | - | - | - | - |
| 50S-17300-1450-OP | 3.4 | 8.0 | 190234 | 77169 | 88634 | 310266 | 175025 | 272077 | 379641 | 220717 | 358211 | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

Table 72. Models 50S-18600-1100-OP to 80S-19700-1800-OP

| Model | Hold Pressure (barg) | MOP (barg) | Operating Supply Pressure (barg) | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | 3 | | | 3.5 | | | 4 | | | 4.5 | | | 5 | | | 5.5 | | | | | | |
| | | | BTO | RTO | ETO | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | |
| 50S-18600-1100-OP | 6.7 | 12.0 | 244061 | 94694 | 103815 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 50S-18600-1200-OP | 5.7 | 12.0 | 243640 | 94424 | 103397 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 50S-18600-1300-OP | 5.0 | 10.9 | 243183 | 94132 | 102944 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 50S-18600-1450-OP | 4.1 | 8.8 | 242430 | 93644 | 102195 | - | - | - | - | - | - | - | - | - | - | 188911 | 78219 | 78219 | 223599 | 104546 | 121285 | 258286 | 128335 | 164352 |
| 65S-18400-1600-OP | 3.5 | 10.0 | 229722 | 91494 | 103081 | - | - | - | - | - | - | 196971 | 90983 | 103467 | 237094 | 118532 | 153283 | 277218 | 145505 | 203099 | 317342 | 172236 | 252915 | |
| 65S-18400-1700-OP | 3.1 | 8.0 | 229149 | 91130 | 102512 | - | - | - | 192535 | 87865 | 97960 | 237831 | 119032 | 154198 | 283127 | 149453 | 210435 | 328423 | 179579 | 266673 | 373719 | 209548 | 322911 | |
| 65S-18400-1800-OP | 2.9 | 8.0 | 228542 | 90745 | 101909 | 179605 | 78624 | 81906 | 230386 | 113977 | 144954 | 281168 | 148144 | 208003 | 331949 | 181916 | 271051 | 382731 | 215500 | 334100 | 433512 | 248973 | 397148 | |
| 65S-19400-1600-OP | 4.0 | 10.0 | 273492 | 109970 | 125141 | - | - | - | - | - | - | - | - | - | 212874 | 93911 | 99062 | 252998 | 122005 | 148878 | 293121 | 149251 | 198694 | |
| 65S-19400-1700-OP | 3.6 | 9.0 | 272919 | 109609 | 124572 | - | - | - | - | - | - | 213611 | 94444 | 99977 | 258906 | 126048 | 156214 | 304202 | 156699 | 212452 | 349498 | 186974 | 268690 | |
| 65S-19400-1800-OP | 3.3 | 8.0 | 272312 | 109226 | 123969 | - | - | - | 206166 | 89019 | 90733 | 256947 | 124709 | 153782 | 307729 | 159067 | 216830 | 358510 | 192969 | 279879 | 409292 | 226656 | 342927 | |
| 80S-18700-1800-OP | 2.8 | 7.0 | 276474 | 85993 | 85993 | 256577 | 105779 | 105779 | 318941 | 152396 | 183207 | 381304 | 194785 | 260635 | 443667 | 236519 | 338063 | 506031 | 277937 | 415491 | 568394 | 319180 | 492919 | |
| 80S-19700-1800-OP | 3.3 | 7.0 | 338579 | 115385 | 115385 | - | - | - | 286311 | 106274 | 106274 | 348674 | 161236 | 183701 | 411037 | 204106 | 261129 | 473401 | 246140 | 338557 | 535764 | 287751 | 415985 | |

NOTES:

- Hold pressure: the minimum pressure to operate the actuator
- MOP: Maximum Operating Pressure
- BTC: Break to Close
- RTC: Run to Close
- ETC: End to Close
- BTO: Break to Open
- RTO: Run to Open
- ETO: End to Open

Table 73. Models 50S-18600-1100-OP to 80S-19700-1800-OP

| Model | Hold Pressure (barg) | MOP (barg) | BTO | RTO | ETO | Operating Supply Pressure (barg) | | | | | | | | | | | | | | |
|-------------------|----------------------|------------|--------|--------|--------|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | | | 6 | | | 7 | | | 9 | | | 10 | | | 12 | | |
| | | | | | | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC | BTC | RTC | ETC |
| 50S-18600-1100-OP | 6.7 | 12.0 | 244061 | 94694 | 103815 | - | - | - | 157676 | 39438 | 39438 | 237527 | 114168 | 138579 | 277453 | 141295 | 188149 | 357305 | 194607 | 287289 |
| 50S-18600-1200-OP | 5.7 | 12.0 | 243640 | 94424 | 103397 | 162906 | 45931 | 45931 | 210421 | 95299 | 104924 | 305451 | 160078 | 222910 | 352966 | 191731 | 281902 | 447995 | 254565 | 399888 |
| 50S-18600-1300-OP | 5.0 | 10.9 | 243183 | 94132 | 102944 | 211988 | 96409 | 106870 | 267752 | 134747 | 176105 | 379280 | 209170 | 314574 | 435044 | 246024 | 383808 | - | - | - |
| 50S-18600-1450-OP | 4.1 | 8.8 | 242430 | 93644 | 102195 | 292974 | 151723 | 207419 | 362349 | 197950 | 293552 | - | - | - | - | - | - | - | - | - |
| 65S-18400-1600-OP | 3.5 | 10.0 | 229722 | 91494 | 103081 | 357466 | 198813 | 302731 | 437713 | 251739 | 402363 | 598208 | 357219 | 601627 | - | - | - | - | - | - |
| 65S-18400-1700-OP | 3.1 | 8.0 | 229149 | 91130 | 102512 | 419015 | 239425 | 379148 | 509606 | 299011 | 491624 | - | - | - | - | - | - | - | - | - |
| 65S-18400-1800-OP | 2.9 | 8.0 | 228542 | 90745 | 101909 | 484294 | 282382 | 460197 | 585857 | 349105 | 586293 | - | - | - | - | - | - | - | - | - |
| 65S-19400-1600-OP | 4.0 | 10.0 | 273492 | 109970 | 125141 | 333245 | 176141 | 248510 | 413492 | 229436 | 348142 | 573987 | 335183 | 547407 | - | - | - | - | - | - |
| 65S-19400-1700-OP | 3.6 | 9.0 | 272919 | 109609 | 124572 | 394794 | 217048 | 324927 | 485386 | 276883 | 437403 | - | - | - | - | - | - | - | - | - |
| 65S-19400-1800-OP | 3.3 | 8.0 | 272312 | 109226 | 123969 | 460073 | 260201 | 405976 | 561637 | 327069 | 532073 | - | - | - | - | - | - | - | - | - |
| 80S-18700-1800-OP | 2.8 | 7.0 | 276474 | 85993 | 85993 | 630757 | 360312 | 570347 | - | - | - | - | - | - | - | - | - | - | - | - |
| 80S-19700-1800-OP | 3.3 | 7.0 | 338579 | 115385 | 115385 | 598127 | 329142 | 493413 | 722854 | 411535 | 648269 | - | - | - | - | - | - | - | - | - |

- NOTES:**
- Hold pressure: the minimum pressure to operate the actuator
 - MOP: Maximum Operating Pressure
 - BTC: Break to Close
 - RTC: Run to Close
 - ETC: End to Close
 - BTO: Break to Open
 - RTO: Run to Open
 - ETO: End to Open

ALGA Double-Acting Pneumatic Actuator

Overall Dimensions

Single Cylinder

Figure 3. Single Cylinder Assembly Drawing

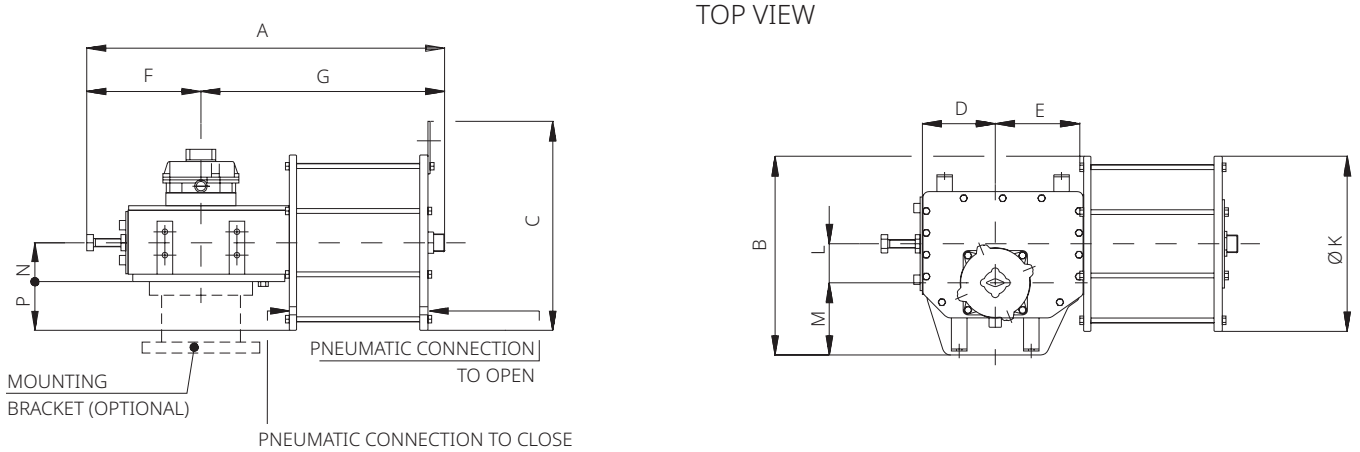


Table 74. Single Cylinder Dimensions (mm)

| Model | A | B | C | D | E | F | G | ØK | L | M | N | P | Pneumatic Connection* | | Weight (kg) | Air Consumption (liters) |
|---------|------|------|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----------------------|------|-------------|--------------------------|
| | | | | | | | | | | | | | Close | Open | | |
| 0.3-100 | 752 | 319 | 182 | 136 | 151 | 227 | 526 | 120 | 70 | 119 | 70 | -10 | 1/4 | 1/4 | 37 | 1.6 |
| 0.3-135 | 750 | 319 | 226 | 136 | 151 | 227 | 524 | 180 | 70 | 119 | 70 | 21 | 1/4 | 1/4 | 41 | 2.9 |
| 0.3-175 | 756 | 319 | 253 | 136 | 151 | 227 | 530 | 200 | 70 | 119 | 70 | 31 | 1/4 | 1/2 | 52 | 4.8 |
| 0.3-235 | 786 | 319 | 301 | 136 | 151 | 227 | 559 | 260 | 70 | 119 | 70 | 61 | 1/2 | 1/2 | 72 | 9 |
| 0.9-235 | 847 | 413 | 301 | 160 | 190 | 249 | 598 | 260 | 80 | 170 | 83 | 48 | 1/2 | 1/2 | 95 | 9 |
| 0.9-280 | 855 | 413 | 397 | 160 | 190 | 249 | 607 | 345 | 80 | 170 | 83 | 90 | 1/2 | 3/4 | 140 | 14 |
| 1.5-280 | 991 | 477 | 397 | 187 | 227 | 312 | 679 | 345 | 100 | 185 | 100 | 73 | 1/2 | 3/4 | 160 | 16 |
| 1.5-335 | 994 | 485 | 483 | 187 | 227 | 312 | 682 | 400 | 100 | 185 | 100 | 100 | 1/2 | 1 | 196 | 23 |
| 1.5-385 | 994 | 510 | 542 | 187 | 227 | 312 | 682 | 450 | 100 | 185 | 100 | 125 | 1/2 | 1 | 223 | 31 |
| 14-635 | 1713 | 890 | 844 | 376 | 435 | 535 | 1178 | 720 | 200 | 330 | 193 | 167 | 1 | 1 | 1097 | 159 |
| 14-735 | 1849 | 940 | 928 | 376 | 435 | 535 | 1314 | 820 | 200 | 330 | 193 | 217 | 1 | 1 | 1312 | 213 |
| 18-635 | 1957 | 955 | 839 | 424 | 492 | 578 | 1379 | 730 | 230 | 355 | 193 | 172 | 1 | 1 | 1372 | 184 |
| 18-685 | 1984 | 970 | 878 | 424 | 492 | 578 | 1406 | 770 | 230 | 355 | 193 | 192 | 1 | 1 | 1353 | 208 |
| 18-735 | 1986 | 995 | 928 | 424 | 492 | 578 | 1408 | 820 | 230 | 355 | 193 | 217 | 1 | 1 | 1427 | 239 |
| 3-335 | 1334 | 586 | 483 | 285 | 330 | 410 | 924 | 400 | 160 | 215 | 106 | 94 | 1/2 | 1 | 281 | 36 |
| 3-385 | 1334 | 600 | 542 | 285 | 330 | 410 | 924 | 450 | 160 | 215 | 106 | 119 | 1/2 | 1 | 311 | 47 |
| 3-435 | 1334 | 625 | 590 | 285 | 330 | 410 | 924 | 500 | 160 | 215 | 106 | 144 | 3/4 | 1 | 342 | 60 |
| 3-485 | 1333 | 655 | 675 | 285 | 330 | 410 | 923 | 560 | 160 | 215 | 106 | 174 | 3/4 | 1 | 367 | 74 |
| 32-685 | 2240 | 1057 | 879 | 505 | 585 | 649 | 1591 | 770 | 270 | 395 | 233 | 153 | 1 | 1 | 1786 | 244 |
| 32-735 | 2253 | 1075 | 928 | 505 | 585 | 649 | 1604 | 820 | 270 | 395 | 233 | 178 | 1 | 1 | 1867 | 288 |
| 32-835 | 2271 | 1128 | 1038 | 505 | 585 | 649 | 1622 | 925 | 270 | 395 | 233 | 230 | 1 | 1 | 2021 | 372 |
| 50-1000 | 2559 | 1280 | 1264 | 548 | 633 | 692 | 1867 | 1120 | 300 | 420 | 233 | 327 | 1 | 1 | 3099 | 600 |
| 50-1100 | 2579 | 1330 | 1355 | 548 | 633 | 692 | 1887 | 1220 | 300 | 420 | 233 | 377 | 1 | 1 | 3495 | 730 |
| 50-935 | 2519 | 1248 | 1180 | 548 | 633 | 692 | 1827 | 1055 | 300 | 420 | 233 | 295 | 1 | 1 | 2785 | 520 |

NOTE:

* Pneumatic connection NPT (in.)

Table 75. Single Cylinder Dimensions (mm) (Continuation)

| Model | A | B | C | D | E | F | G | Ø K | L | M | N | P | Pneumatic Connection* | | Weight (kg) | Air Consumption (liters) |
|---------|------|------|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----------------------|------|-------------|--------------------------|
| | | | | | | | | | | | | | Close | Open | | |
| 6-485 | 1564 | 740 | 675 | 327 | 379 | 503 | 1061 | 560 | 185 | 260 | 140 | 140 | 3/4 | 1 | 555 | 85 |
| 6-535 | 1577 | 755 | 716 | 327 | 379 | 503 | 1074 | 620 | 185 | 260 | 140 | 170 | 3/4 | 1 | 655 | 104 |
| 6-585 | 1577 | 780 | 794 | 327 | 379 | 503 | 1074 | 670 | 185 | 260 | 140 | 195 | 3/4 | 1 | 734 | 124 |
| 80-1100 | 3052 | 1410 | 1355 | 663 | 761 | 882 | 2170 | 1220 | 350 | 450 | 302 | 308 | 1 | 1 | 4609 | 840 |
| 80-1200 | 3047 | 1465 | 1329 | 663 | 761 | 882 | 2165 | 1329 | 350 | 450 | 302 | 363 | 1 | 1 | 31309 | 1000 |
| 80-935 | 3067 | 1335 | 1206 | 663 | 761 | 882 | 2185 | 1070 | 350 | 450 | 302 | 233 | 1 | 1 | 4184 | 610 |

NOTE:

* Pneumatic connection NPT (in.)

Two Cylinders

Figure 4. Two Cylinders Assembly Drawing

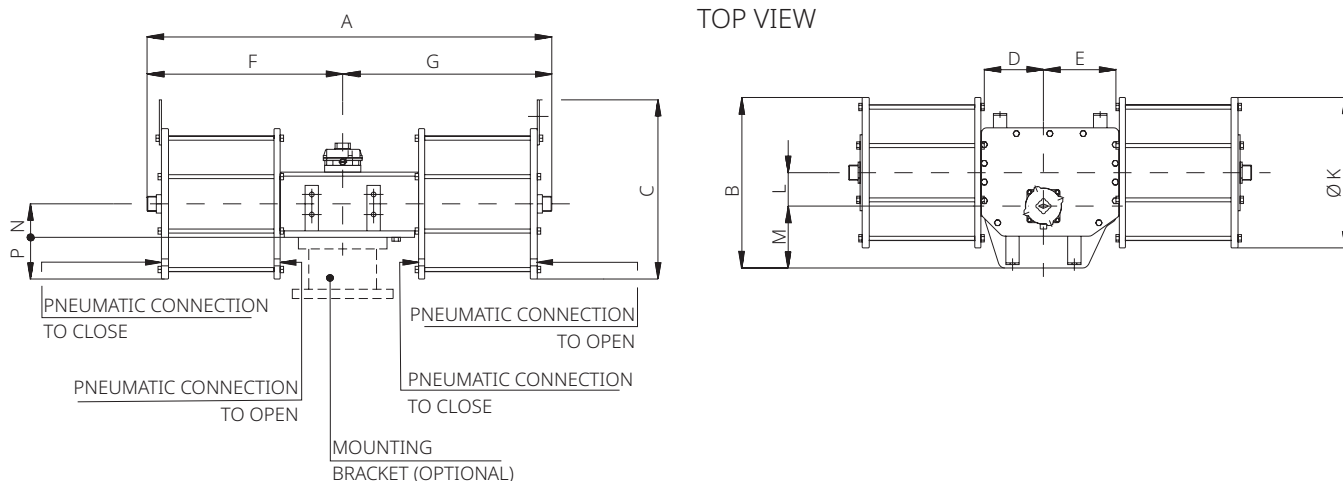


Table 76. Two Cylinders Dimensions (mm)

| Model | A | B | C | D | E | F | G | ØK | L | M | N | P | Pneumatic Connection* | | Weight (kg) | Air Consumption (liters) |
|---------|------|------|------|-----|-----|------|------|------|-----|-----|-----|-----|-----------------------|------|-------------|--------------------------|
| | | | | | | | | | | | | | Close | Open | | |
| 18-635 | 2690 | 955 | 839 | 424 | 492 | 1311 | 1379 | 730 | 230 | 355 | 172 | 193 | 1 | 1 | 2131.96 | 357 |
| 18-685 | 2744 | 970 | 878 | 424 | 492 | 1338 | 1406 | 770 | 230 | 355 | 192 | 193 | 1 | 1 | 2093.3 | 416 |
| 32-685 | 3102 | 1057 | 879 | 505 | 585 | 1511 | 1591 | 770 | 270 | 395 | 153 | 233 | 1 | 1 | 2550.38 | 487 |
| 50-1000 | 3649 | 1280 | 1264 | 548 | 633 | 1782 | 1867 | 1120 | 300 | 420 | 327 | 233 | 1 | 1 | 4996.1 | 1200 |
| 50-935 | 3569 | 1248 | 1180 | 548 | 633 | 1742 | 1827 | 1055 | 300 | 420 | 295 | 233 | 1 | 1 | 4369.24 | 1040 |
| 80-1100 | 4242 | 1410 | 1355 | 663 | 761 | 2072 | 2170 | 1220 | 350 | 450 | 308 | 302 | 1 | 1 | 7022.72 | 1680 |
| 80-1200 | 4232 | 1465 | 1329 | 663 | 761 | 2067 | 2165 | 1329 | 350 | 450 | 363 | 302 | 1 | 1 | 60421.48 | 2000 |
| 80-935 | 4272 | 1335 | 1206 | 663 | 761 | 2087 | 2185 | 1070 | 350 | 450 | 233 | 302 | 1 | 1 | 6172.64 | 1220 |

NOTE:

* Pneumatic connection NPT (in.)

ALGAS Spring-Return Pneumatic Actuator

Overall Dimensions

Spring to Close

Figure 5. Overall Dimensions

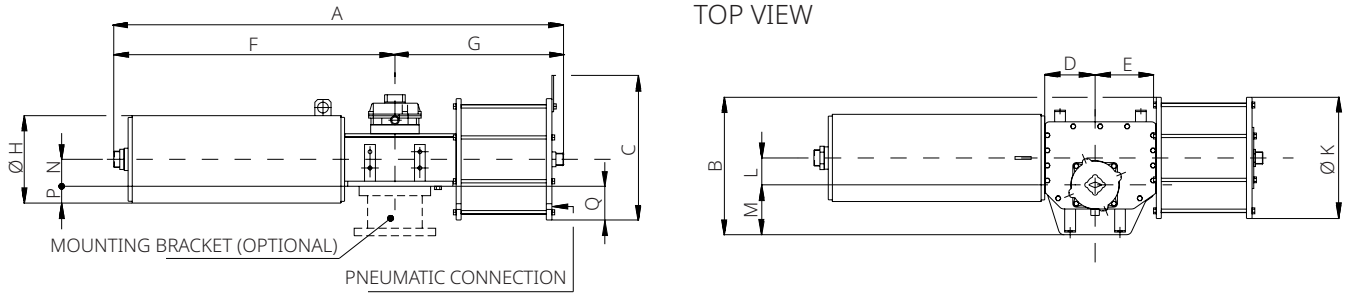


Table 77. Models 0.3-008A-100-CL to 0.9-0250-235-CL Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|-----|--------------|----------------|-----------------------------|
| 0.3-008A-100-CL | 1239 | 319 | 182 | 136 | 151 | 712 | 527 | 150 | 120 | 70 | 119 | 70 | 5 | -10 | 1/4 | 56.5 | 1.6 |
| 0.3-008B-100-CL | 1239 | 319 | 182 | 136 | 151 | 712 | 527 | 150 | 120 | 70 | 119 | 70 | 5 | -10 | 1/4 | 56.5 | 1.6 |
| 0.3-008C-100-CL | 1239 | 319 | 182 | 136 | 151 | 712 | 527 | 150 | 120 | 70 | 119 | 70 | 5 | -10 | 1/4 | 61.5 | 1.6 |
| 0.3-008A-135-CL | 1236 | 319 | 226 | 136 | 151 | 712 | 524 | 150 | 180 | 70 | 119 | 70 | 5 | 20 | 1/4 | 63.5 | 2.9 |
| 0.3-008B-135-CL | 1236 | 319 | 226 | 136 | 151 | 712 | 524 | 150 | 180 | 70 | 119 | 70 | 5 | 20 | 1/4 | 63.5 | 2.9 |
| 0.3-008C-135-CL | 1236 | 319 | 226 | 136 | 151 | 712 | 524 | 150 | 180 | 70 | 119 | 70 | 5 | 20 | 1/4 | 68.5 | 2.9 |
| 0.3-0100-135-CL | 1355 | 319 | 226 | 136 | 151 | 831 | 524 | 224 | 180 | 70 | 119 | 70 | 42 | 20 | 1/4 | 83.5 | 2.9 |
| 0.3-0100-175-CL | 1361 | 319 | 253 | 136 | 151 | 831 | 530 | 224 | 200 | 70 | 119 | 70 | 42 | 30 | 1/2 | 91.5 | 4.8 |
| 0.3-0150-175-CL | 1293 | 319 | 253 | 136 | 151 | 763 | 530 | 224 | 200 | 70 | 119 | 70 | 42 | 30 | 1/2 | 91.5 | 4.8 |
| 0.3-0100-235-CL | 1391 | 319 | 301 | 136 | 151 | 831 | 560 | 224 | 260 | 70 | 119 | 70 | 42 | 60 | 1/2 | 112.5 | 9 |
| 0.3-0150-235-CL | 1323 | 319 | 301 | 136 | 151 | 763 | 560 | 224 | 260 | 70 | 119 | 70 | 42 | 60 | 1/2 | 112.5 | 9 |
| 0.9-0350-385-CL | 1575 | 475 | 542 | 160 | 190 | 930 | 645 | 350 | 450 | 80 | 170 | 83 | 92 | 142 | 1 | 304.5 | 26 |
| 0.9-0400-385-CL | 1509 | 475 | 542 | 160 | 190 | 864 | 645 | 350 | 450 | 80 | 170 | 83 | 92 | 142 | 1 | 304.5 | 26 |
| 0.9-0420-385-CL | 1466 | 475 | 542 | 160 | 190 | 821 | 645 | 350 | 450 | 80 | 170 | 83 | 92 | 142 | 1 | 299.5 | 26 |
| 0.9-0700-385-CL | 1536 | 475 | 542 | 160 | 190 | 891 | 645 | 350 | 450 | 80 | 170 | 83 | 92 | 142 | 1 | 329.5 | 26 |
| 0.9-0720-385-CL | 1466 | 475 | 542 | 160 | 190 | 821 | 645 | 350 | 450 | 80 | 170 | 83 | 93 | 142 | 1 | 324.5 | 26 |
| 0.9-0350-435-CL | 1575 | 500 | 590 | 160 | 190 | 930 | 645 | 350 | 500 | 80 | 170 | 83 | 92 | 167 | 1 | 334.5 | 33 |
| 0.9-0400-435-CL | 1509 | 500 | 590 | 160 | 190 | 864 | 645 | 350 | 500 | 80 | 170 | 83 | 92 | 167 | 1 | 334.5 | 33 |
| 0.9-0420-435-CL | 1466 | 500 | 590 | 160 | 190 | 821 | 645 | 350 | 500 | 80 | 170 | 83 | 92 | 167 | 1 | 329.5 | 33 |
| 0.9-0700-435-CL | 1536 | 500 | 590 | 160 | 190 | 891 | 645 | 350 | 500 | 80 | 170 | 83 | 92 | 167 | 1 | 359.5 | 33 |
| 0.9-0720-435-CL | 1466 | 500 | 590 | 160 | 190 | 821 | 645 | 350 | 500 | 80 | 170 | 83 | 93 | 167 | 1 | 354.5 | 33 |
| 0.9-0350-485-CL | 1575 | 560 | 656 | 160 | 190 | 930 | 645 | 350 | 560 | 80 | 170 | 83 | 92 | 197 | 1 | 384.5 | 41 |
| 0.9-0400-485-CL | 1509 | 560 | 656 | 160 | 190 | 864 | 645 | 350 | 560 | 80 | 170 | 83 | 92 | 197 | 1 | 384.5 | 41 |
| 0.9-0420-485-CL | 1466 | 560 | 656 | 160 | 190 | 821 | 645 | 350 | 560 | 80 | 170 | 83 | 92 | 197 | 1 | 379.5 | 41 |
| 0.9-0700-485-CL | 1536 | 560 | 656 | 160 | 190 | 891 | 645 | 350 | 560 | 80 | 170 | 83 | 92 | 197 | 1 | 409.5 | 41 |
| 0.9-0720-485-CL | 1466 | 560 | 656 | 160 | 190 | 821 | 645 | 350 | 560 | 80 | 170 | 83 | 93 | 197 | 1 | 404.5 | 41 |
| 0.9-0200-235-CL | 1476 | 413 | 301 | 160 | 190 | 877 | 599 | 280 | 260 | 80 | 170 | 83 | 57 | 47 | 1/2 | 160.5 | 9 |
| 0.9-0250-235-CL | 1405 | 413 | 301 | 160 | 190 | 806 | 599 | 280 | 260 | 80 | 170 | 83 | 57 | 47 | 1/2 | 165.5 | 9 |

Table 78. Models 0.9-0200-280-CL to 3-2050-385-CL Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|-----------------|------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|--------------|----------------|-----------------------------|
| 0.9-0200-280-CL | 1484 | 423 | 397 | 160 | 190 | 877 | 607 | 280 | 346 | 80 | 170 | 83 | 57 | 90 | 3/4 | 160.5 | 14 |
| 0.9-0250-280-CL | 1413 | 423 | 397 | 160 | 190 | 806 | 607 | 280 | 346 | 80 | 170 | 83 | 57 | 90 | 3/4 | 165.5 | 14 |
| 0.9-0350-280-CL | 1537 | 423 | 397 | 160 | 190 | 930 | 607 | 350 | 346 | 80 | 170 | 83 | 92 | 90 | 3/4 | 210.5 | 14 |
| 0.9-0400-280-CL | 1471 | 423 | 397 | 160 | 190 | 864 | 607 | 350 | 346 | 80 | 170 | 83 | 92 | 90 | 3/4 | 210.5 | 14 |
| 0.9-0200-335-CL | 1522 | 450 | 483 | 160 | 190 | 877 | 645 | 280 | 400 | 80 | 170 | 83 | 57 | 117 | 1 | 224.5 | 20 |
| 0.9-0250-335-CL | 1451 | 450 | 483 | 160 | 190 | 806 | 645 | 280 | 400 | 80 | 170 | 83 | 57 | 117 | 1 | 229.5 | 20 |
| 0.9-0350-335-CL | 1575 | 450 | 483 | 160 | 190 | 930 | 645 | 350 | 400 | 80 | 170 | 83 | 92 | 117 | 1 | 274.5 | 20 |
| 0.9-0400-335-CL | 1509 | 450 | 483 | 160 | 190 | 864 | 645 | 350 | 400 | 80 | 170 | 83 | 92 | 117 | 1 | 274.5 | 20 |
| 0.9-0420-335-CL | 1466 | 450 | 483 | 160 | 190 | 821 | 645 | 350 | 400 | 80 | 170 | 83 | 92 | 117 | 1 | 269.5 | 20 |
| 0.9-0700-335-CL | 1536 | 450 | 483 | 160 | 190 | 891 | 645 | 350 | 400 | 80 | 170 | 83 | 92 | 117 | 1 | 299.5 | 20 |
| 1.5-0800-385-CL | 1674 | 510 | 542 | 187 | 227 | 992 | 682 | 400 | 450 | 100 | 185 | 100 | 100 | 125 | 1 | 382 | 31 |
| 1.5-1100-385-CL | 1674 | 510 | 542 | 187 | 227 | 992 | 682 | 400 | 450 | 100 | 185 | 100 | 100 | 125 | 1 | 392 | 31 |
| 1.5-1200-385-CL | 1774 | 510 | 542 | 187 | 227 | 1092 | 682 | 370 | 450 | 100 | 185 | 100 | 85 | 125 | 1 | 402 | 31 |
| 1.5-0800-435-CL | 1674 | 535 | 590 | 187 | 227 | 992 | 682 | 400 | 500 | 100 | 185 | 100 | 100 | 150 | 1 | 412 | 39 |
| 1.5-1100-435-CL | 1674 | 535 | 590 | 187 | 227 | 992 | 682 | 400 | 500 | 100 | 185 | 100 | 100 | 150 | 1 | 422 | 39 |
| 1.5-1200-435-CL | 1774 | 535 | 590 | 187 | 227 | 1092 | 682 | 370 | 500 | 100 | 185 | 100 | 85 | 150 | 1 | 432 | 39 |
| 1.5-0800-485-CL | 1674 | 565 | 656 | 187 | 227 | 992 | 682 | 400 | 560 | 100 | 185 | 100 | 100 | 180 | 1 | 462 | 48 |
| 1.5-1100-485-CL | 1674 | 565 | 656 | 187 | 227 | 992 | 682 | 400 | 560 | 100 | 185 | 100 | 100 | 180 | 1 | 472 | 48 |
| 1.5-1200-485-CL | 1774 | 565 | 656 | 187 | 227 | 1092 | 682 | 370 | 560 | 100 | 185 | 100 | 85 | 180 | 1 | 482 | 48 |
| 1.5-0800-535-CL | 1714 | 620 | 716 | 187 | 227 | 992 | 722 | 400 | 620 | 100 | 185 | 100 | 100 | 210 | 1 | 532 | 59 |
| 1.5-1100-535-CL | 1714 | 620 | 716 | 187 | 227 | 992 | 722 | 400 | 620 | 100 | 185 | 100 | 100 | 210 | 1 | 542 | 59 |
| 1.5-1200-535-CL | 1814 | 620 | 716 | 187 | 227 | 1092 | 722 | 370 | 620 | 100 | 185 | 100 | 85 | 210 | 1 | 552 | 59 |
| 1.5-1100-585-CL | 1719 | 670 | 775 | 187 | 227 | 992 | 727 | 400 | 670 | 100 | 185 | 100 | 100 | 235 | 1 | 602 | 70 |
| 1.5-1200-585-CL | 1819 | 670 | 775 | 187 | 227 | 1092 | 727 | 370 | 670 | 100 | 185 | 100 | 85 | 235 | 1 | 612 | 70 |
| 1.5-1300-385-CL | 1767 | 510 | 542 | 187 | 227 | 1085 | 682 | 370 | 450 | 100 | 185 | 100 | 85 | 125 | 1 | 410 | 31 |
| 1.5-1300-435-CL | 1767 | 535 | 590 | 187 | 227 | 1085 | 682 | 370 | 500 | 100 | 185 | 100 | 85 | 150 | 1 | 440 | 39 |
| 1.5-1300-485-CL | 1767 | 565 | 656 | 187 | 227 | 1085 | 682 | 370 | 560 | 100 | 185 | 100 | 85 | 180 | 1 | 490 | 48 |
| 1.5-1300-535-CL | 1807 | 620 | 716 | 187 | 227 | 1085 | 722 | 370 | 620 | 100 | 185 | 100 | 85 | 210 | 1 | 560 | 59 |
| 1.5-1300-585-CL | 1812 | 710 | 795 | 187 | 227 | 1085 | 727 | 370 | 710 | 100 | 185 | 100 | 85 | 255 | 1 | 620 | 70 |
| 3-2000-385-CL | 2338 | 600 | 542 | 285 | 330 | 1414 | 924 | 430 | 450 | 160 | 215 | 106 | 109 | 119 | 1 | 552 | 47 |
| 3-2000-435-CL | 2338 | 625 | 590 | 285 | 330 | 1414 | 924 | 430 | 500 | 160 | 215 | 106 | 109 | 144 | 1 | 587 | 60 |
| 3-2000-485-CL | 2337 | 655 | 675 | 285 | 330 | 1414 | 923 | 430 | 560 | 160 | 215 | 106 | 109 | 174 | 1 | 642 | 74 |
| 3-2000-535-CL | 2381 | 685 | 716 | 285 | 330 | 1414 | 967 | 430 | 620 | 160 | 215 | 106 | 109 | 204 | 1 | 712 | 90 |
| 3-2000-585-CL | 2381 | 710 | 794 | 285 | 330 | 1414 | 967 | 430 | 670 | 160 | 215 | 106 | 109 | 229 | 1 | 777 | 108 |
| 3-2050-385-CL | 2313 | 600 | 542 | 285 | 330 | 1389 | 924 | 430 | 450 | 160 | 215 | 106 | 109 | 119 | 1 | 570 | 47 |

Figure 6. Overall Dimensions

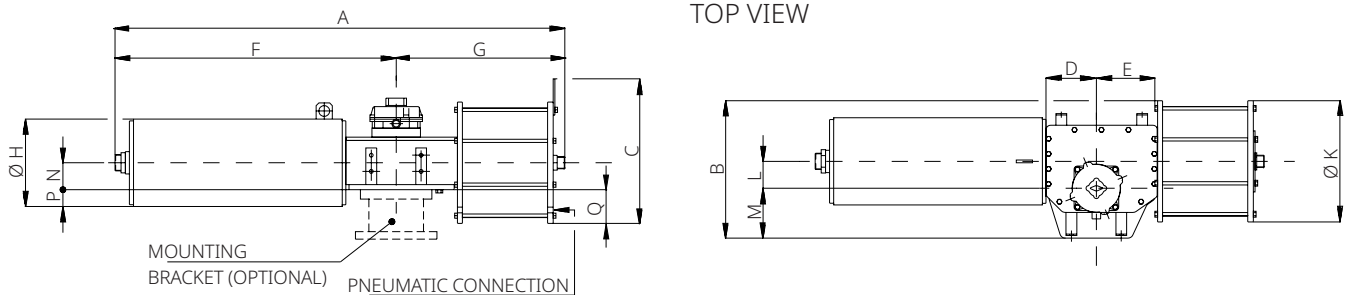


Table 79. Models 3-2050-435-CL to 14-8300-735-CL Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|----------------|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----------|-------------|--------------------------|
| 3-2050-435-CL | 2313 | 625 | 590 | 285 | 330 | 1389 | 924 | 430 | 500 | 160 | 215 | 106 | 109 | 144 | 1 | 605 | 60 |
| 3-2050-485-CL | 2312 | 655 | 675 | 285 | 330 | 1389 | 923 | 430 | 560 | 160 | 215 | 106 | 109 | 174 | 1 | 660 | 74 |
| 3-2050-535-CL | 2356 | 685 | 716 | 285 | 330 | 1389 | 967 | 430 | 620 | 160 | 215 | 106 | 109 | 204 | 1 | 730 | 90 |
| 3-2050-585-CL | 2356 | 710 | 794 | 285 | 330 | 1389 | 967 | 430 | 670 | 160 | 215 | 106 | 109 | 229 | 1 | 805 | 108 |
| 6-2500-485-CL | 3044 | 740 | 675 | 327 | 379 | 1980 | 1064 | 380 | 560 | 185 | 260 | 140 | 120 | 140 | 1 | 938 | 85 |
| 6-2500-535-CL | 3054 | 755 | 716 | 327 | 379 | 1980 | 1074 | 380 | 620 | 185 | 260 | 140 | 120 | 170 | 1 | 1008 | 104 |
| 6-3800-535-CL | 3235 | 755 | 716 | 327 | 379 | 2161 | 1074 | 550 | 620 | 185 | 260 | 140 | 205 | 170 | 1 | 1363 | 104 |
| 6-2500-585-CL | 3054 | 780 | 794 | 327 | 379 | 1980 | 1074 | 380 | 670 | 185 | 260 | 140 | 120 | 195 | 1 | 1073 | 124 |
| 6-3800-585-CL | 3235 | 780 | 794 | 327 | 379 | 2161 | 1074 | 550 | 670 | 185 | 260 | 140 | 205 | 195 | 1 | 1428 | 124 |
| 6-2500-685-CL | 3243 | 830 | 879 | 327 | 379 | 1980 | 1263 | 380 | 770 | 185 | 260 | 140 | 120 | 245 | 2 x 1 | 1278 | 170 |
| 6-2500-735-CL | 3123 | 853 | 926 | 327 | 379 | 1980 | 1143 | 380 | 816 | 185 | 260 | 140 | 120 | 268 | 2 x 1 | 1388 | 196 |
| 6-3800-735-CL | 3304 | 853 | 926 | 327 | 379 | 2161 | 1143 | 550 | 816 | 185 | 260 | 140 | 205 | 268 | 2 x 1 | 1743 | 196 |
| 6-2500-635-CL | 3102 | 805 | 844 | 327 | 379 | 1980 | 1122 | 380 | 720 | 185 | 260 | 140 | 120 | 220 | 1 | 1168 | 146 |
| 6-3800-635-CL | 3283 | 805 | 844 | 327 | 379 | 2161 | 1122 | 550 | 720 | 185 | 260 | 140 | 205 | 220 | 1 | 1523 | 146 |
| 6-3900-535-CL | 3061 | 755 | 716 | 327 | 379 | 1987 | 1074 | 548 | 620 | 185 | 260 | 140 | 210 | 170 | 1 | 1453 | 104 |
| 6-3900-585-CL | 3061 | 780 | 794 | 327 | 379 | 1987 | 1074 | 548 | 670 | 185 | 260 | 140 | 210 | 195 | 1 | 1518 | 124 |
| 6-3900-635-CL | 3109 | 805 | 844 | 327 | 379 | 1987 | 1122 | 548 | 720 | 185 | 260 | 140 | 210 | 220 | 1 | 1613 | 146 |
| 6-3900-685-CL | 3250 | 830 | 879 | 327 | 379 | 1987 | 1263 | 548 | 770 | 185 | 260 | 140 | 210 | 245 | 2 x 1 | 1723 | 170 |
| 6-3900-735-CL | 3130 | 853 | 926 | 327 | 379 | 1987 | 1143 | 548 | 816 | 185 | 260 | 140 | 210 | 268 | 2 x 1 | 1833 | 196 |
| 14-5100-685-CL | 3431 | 915 | 879 | 376 | 435 | 2112 | 1319 | 552 | 770 | 200 | 330 | 193 | 153 | 192 | 2 x 1 | 1876 | 185 |
| 14-5400-685-CL | 3377 | 915 | 879 | 376 | 435 | 2058 | 1319 | 552 | 770 | 200 | 330 | 193 | 153 | 192 | 2 x 1 | 1961 | 185 |
| 14-5100-735-CL | 3309 | 938 | 926 | 376 | 435 | 2112 | 1197 | 552 | 816 | 200 | 330 | 193 | 153 | 215 | 2 x 1 | 1971 | 213 |
| 14-5400-735-CL | 3255 | 938 | 926 | 376 | 435 | 2058 | 1197 | 552 | 816 | 200 | 330 | 193 | 153 | 215 | 2 x 1 | 2056 | 213 |
| 14-8300-735-CL | 3309 | 938 | 926 | 376 | 435 | 2112 | 1197 | 552 | 816 | 200 | 330 | 193 | 153 | 215 | 2 x 1 | 2151 | 213 |

Table 80. Models 14-5100-785-CL to 18-9800-935-CL Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|------------------|------|------|------|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|--------------|----------------|-----------------------------|
| 14-5100-785-CL | 3309 | 973 | 1004 | 376 | 435 | 2112 | 1197 | 552 | 886 | 200 | 330 | 193 | 153 | 250 | 2 x 1 | 2066 | 243 |
| 14-5400-785-CL | 3255 | 973 | 1004 | 376 | 435 | 2058 | 1197 | 552 | 886 | 200 | 330 | 193 | 153 | 250 | 2 x 1 | 2151 | 243 |
| 14-8300-785-CL | 3309 | 973 | 1004 | 376 | 435 | 2112 | 1197 | 552 | 886 | 200 | 330 | 193 | 153 | 250 | 2 x 1 | 2246 | 243 |
| 14-5100-835-CL | 3309 | 993 | 1038 | 376 | 435 | 2112 | 1197 | 552 | 926 | 200 | 330 | 193 | 153 | 270 | 2 x 1 | 2141 | 274 |
| 14-5400-835-CL | 3255 | 993 | 1038 | 376 | 435 | 2058 | 1197 | 552 | 926 | 200 | 330 | 193 | 153 | 270 | 2 x 1 | 2226 | 274 |
| 14-8300-835-CL | 3309 | 993 | 1038 | 376 | 435 | 2112 | 1197 | 552 | 926 | 200 | 330 | 193 | 153 | 270 | 2 x 1 | 2321 | 274 |
| 14-5100-935-CL | 3388 | 1058 | 1180 | 376 | 435 | 2112 | 1276 | 552 | 1056 | 200 | 330 | 193 | 153 | 335 | 2 x 1 | 2601 | 343 |
| 14-5400-935-CL | 3334 | 1058 | 1180 | 376 | 435 | 2058 | 1276 | 552 | 1056 | 200 | 330 | 193 | 153 | 335 | 2 x 1 | 2686 | 343 |
| 14-8300-935-CL | 3388 | 1058 | 1180 | 376 | 435 | 2112 | 1276 | 552 | 1056 | 200 | 330 | 193 | 153 | 335 | 2 x 1 | 2781 | 343 |
| 14-5100-635-CL | 3290 | 890 | 844 | 376 | 435 | 2112 | 1178 | 552 | 720 | 200 | 330 | 193 | 153 | 167 | 1 | 1766 | 159 |
| 14-5400-635-CL | 3236 | 890 | 844 | 376 | 435 | 2058 | 1178 | 552 | 720 | 200 | 330 | 193 | 153 | 167 | 1 | 1851 | 159 |
| 14-5100-885-CL | 3388 | 1030 | 1123 | 376 | 435 | 2112 | 1276 | 552 | 1000 | 200 | 330 | 193 | 153 | 307 | 2 x 1 | 2481 | 308 |
| 14-5400-885-CL | 3334 | 1030 | 1123 | 376 | 435 | 2058 | 1276 | 552 | 1000 | 200 | 330 | 193 | 153 | 307 | 2 x 1 | 2566 | 308 |
| 14-8300-885-CL | 3388 | 1030 | 1123 | 376 | 435 | 2112 | 1276 | 552 | 1000 | 200 | 330 | 193 | 153 | 307 | 2 x 1 | 2661 | 308 |
| 18-10500-1000-CL | 4186 | 1145 | 1264 | 424 | 492 | 2774 | 1412 | 710 | 1120 | 230 | 355 | 193 | 252 | 367 | 2 x 1 | 4657 | 456 |
| 18-11000-1000-CL | 4068 | 1145 | 1264 | 424 | 492 | 2656 | 1412 | 710 | 1120 | 230 | 355 | 193 | 252 | 367 | 2 x 1 | 4622 | 456 |
| 18-9600-1000-CL | 4101 | 1145 | 1264 | 424 | 492 | 2689 | 1412 | 600 | 1120 | 230 | 355 | 193 | 197 | 367 | 2 x 1 | 3717 | 456 |
| 18-9800-1000-CL | 4101 | 1145 | 1264 | 424 | 492 | 2689 | 1412 | 600 | 1120 | 230 | 355 | 193 | 197 | 367 | 2 x 1 | 3932 | 456 |
| 18-9600-835-CL | 4060 | 1048 | 1038 | 424 | 492 | 2689 | 1371 | 600 | 926 | 230 | 355 | 193 | 197 | 270 | 2 x 1 | 3002 | 318 |
| 18-9800-835-CL | 4060 | 1048 | 1038 | 424 | 492 | 2689 | 1371 | 600 | 926 | 230 | 355 | 193 | 197 | 270 | 2 x 1 | 3217 | 318 |
| 18-10500-935-CL | 4180 | 1113 | 1180 | 424 | 492 | 2774 | 1406 | 710 | 1056 | 230 | 355 | 193 | 252 | 335 | 2 x 1 | 4402 | 398 |
| 18-11000-935-CL | 4062 | 1113 | 1180 | 424 | 492 | 2656 | 1406 | 710 | 1056 | 230 | 355 | 193 | 252 | 335 | 2 x 1 | 4367 | 398 |
| 18-9600-935-CL | 4095 | 1113 | 1180 | 424 | 492 | 2689 | 1406 | 600 | 1056 | 230 | 355 | 193 | 197 | 335 | 2 x 1 | 3462 | 398 |
| 18-9800-935-CL | 4095 | 1113 | 1180 | 424 | 492 | 2689 | 1406 | 600 | 1056 | 230 | 355 | 193 | 197 | 335 | 2 x 1 | 3677 | 398 |

Figure 7. Overall Dimensions

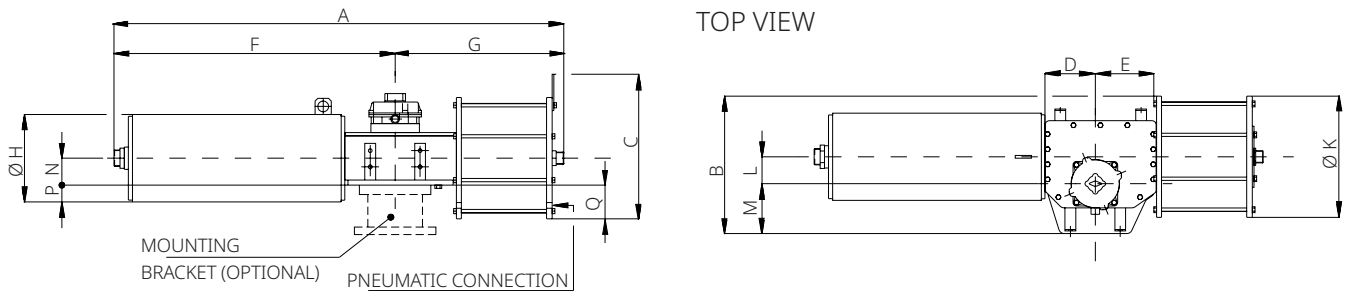


Table 81. Models 18-10500-1100-CL to 80-19700-1800-CL Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air consumption (liters) |
|------------------|------|------|------|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|--------------|----------------|-----------------------------|
| 18-10500-1100-CL | 4183 | 1220 | 1364 | 424 | 492 | 2774 | 1409 | 710 | 1220 | 230 | 355 | 193 | 252 | 417 | 2 x 1 | 5017 | 552 |
| 18-11000-1100-CL | 4065 | 1220 | 1364 | 424 | 492 | 2656 | 1409 | 710 | 1220 | 230 | 355 | 193 | 252 | 417 | 2 x 1 | 4982 | 552 |
| 18-9600-1100-CL | 4098 | 1220 | 1364 | 424 | 492 | 2689 | 1409 | 600 | 1220 | 230 | 355 | 193 | 197 | 417 | 2 x 1 | 4077 | 552 |
| 18-9800-1100-CL | 4098 | 1220 | 1364 | 424 | 492 | 2689 | 1409 | 600 | 1220 | 230 | 355 | 193 | 197 | 417 | 2 x 1 | 4292 | 552 |
| 18-10500-1200-CL | 4183 | 1330 | 1469 | 424 | 492 | 2774 | 1409 | 710 | 1330 | 230 | 355 | 193 | 252 | 472 | 2 x 1 | 5378 | 660 |
| 18-11000-1200-CL | 4065 | 1330 | 1469 | 424 | 492 | 2656 | 1409 | 710 | 1330 | 230 | 355 | 193 | 252 | 472 | 2 x 1 | 5343 | 660 |
| 18-9600-1200-CL | 4098 | 1310 | 1459 | 424 | 492 | 2689 | 1409 | 600 | 1310 | 230 | 355 | 193 | 197 | 462 | 2 x 1 | 4438 | 660 |
| 18-9800-1200-CL | 4098 | 1310 | 1459 | 424 | 492 | 2689 | 1409 | 600 | 1310 | 230 | 355 | 193 | 197 | 462 | 2 x 1 | 4653 | 660 |
| 32-12000-1100-CL | 4679 | 1300 | 1364 | 505 | 585 | 3004 | 1675 | 800 | 1220 | 270 | 420 | 236 | 254 | 374 | 2 x 1 | 5941 | 650 |
| 32-15000-1100-CL | 4679 | 1300 | 1364 | 505 | 585 | 3004 | 1675 | 800 | 1220 | 270 | 420 | 236 | 254 | 374 | 2 x 1 | 6239 | 650 |
| 32-9900-1100-CL | 4617 | 1300 | 1364 | 505 | 585 | 2942 | 1675 | 600 | 1220 | 270 | 420 | 236 | 154 | 374 | 2 x 1 | 4919 | 650 |
| 32-12000-1300-CL | 4719 | 1430 | 1580 | 505 | 585 | 3001 | 1718 | 980 | 1430 | 270 | 420 | 236 | 254 | 479 | 2 x 1 | 6899 | 910 |
| 32-15000-1300-CL | 4722 | 1430 | 1580 | 505 | 585 | 3004 | 1718 | 800 | 1430 | 270 | 420 | 236 | 254 | 479 | 2 x 1 | 7197 | 910 |
| 32-9900-1300-CL | 4660 | 1430 | 1580 | 505 | 585 | 2942 | 1718 | 600 | 1430 | 270 | 420 | 236 | 154 | 479 | 2 x 1 | 5877 | 910 |
| 50-15400-1100-CL | 4989 | 1330 | 1364 | 548 | 633 | 3122 | 1867 | 800 | 1220 | 300 | 420 | 233 | 257 | 377 | 2 x 1 | 6590 | 720 |
| 50-15600-1100-CL | 4989 | 1330 | 1364 | 548 | 633 | 3122 | 1867 | 800 | 1220 | 300 | 420 | 233 | 258 | 377 | 2 x 1 | 6800 | 720 |
| 50-17300-1100-CL | 5006 | 1330 | 1364 | 548 | 633 | 3139 | 1867 | 860 | 1220 | 300 | 420 | 233 | 317 | 377 | 2 x 1 | 7165 | 720 |
| 50-15400-1450-CL | 4966 | 1600 | 1805 | 548 | 633 | 3122 | 1844 | 800 | 1600 | 300 | 420 | 233 | 257 | 567 | 2 x 1 | 8115 | 1256 |
| 50-15600-1450-CL | 4966 | 1600 | 1805 | 548 | 633 | 3122 | 1844 | 800 | 1600 | 300 | 420 | 233 | 258 | 567 | 2 x 1 | 8325 | 1256 |
| 50-17300-1450-CL | 4983 | 1600 | 1805 | 548 | 633 | 3139 | 1844 | 860 | 1600 | 300 | 420 | 233 | 317 | 567 | 2 x 1-1/2 | 8690 | 1256 |
| 50-18600-1450-CL | 5012 | 1600 | 1805 | 548 | 633 | 3168 | 1844 | 866 | 1600 | 300 | 420 | 233 | 320 | 567 | 2 x 1-1/2 | 9340 | 1256 |
| 65-18400-1600-CL | 5192 | 1750 | 1993 | 623 | 701 | 3243 | 1949 | 866 | 1750 | 285 | 455 | 302 | 251 | 573 | 2 x 1 | 11200 | 1480 |
| 65-19400-1600-CL | 5307 | 1750 | 1993 | 623 | 701 | 3358 | 1949 | 866 | 1750 | 285 | 455 | 302 | 251 | 573 | 2 x 1 | 11570 | 1480 |
| 65-18400-1700-CL | 5221 | 1900 | 2160 | 623 | 701 | 3243 | 1978 | 866 | 1900 | 285 | 455 | 302 | 251 | 648 | 2 x 1 | 12505 | 1670 |
| 65-19400-1700-CL | 5336 | 1900 | 2160 | 623 | 701 | 3358 | 1978 | 866 | 1900 | 285 | 455 | 302 | 251 | 648 | 2 x 1 | 12875 | 1670 |
| 65-18400-1800-CL | 5222 | 1960 | 2196 | 623 | 701 | 3243 | 1979 | 866 | 1960 | 285 | 455 | 302 | 251 | 678 | 2 x 1 | 13070 | 1875 |
| 65-19400-1800-CL | 5337 | 1960 | 2196 | 623 | 701 | 3358 | 1979 | 866 | 1960 | 285 | 455 | 302 | 251 | 678 | 2 x 1 | 13440 | 1875 |
| 80-18700-1800-CL | 5679 | 1960 | 2196 | 663 | 761 | 3416 | 2263 | 866 | 1960 | 350 | 450 | 302 | 251 | 678 | 2 x 1 | 13410 | 2250 |
| 80-19700-1800-CL | 5796 | 1960 | 2196 | 663 | 761 | 3533 | 2263 | 866 | 1960 | 350 | 450 | 302 | 251 | 678 | 2 x 1 | 13900 | 2250 |

Spring to Open

Figure 8. Overall Dimensions

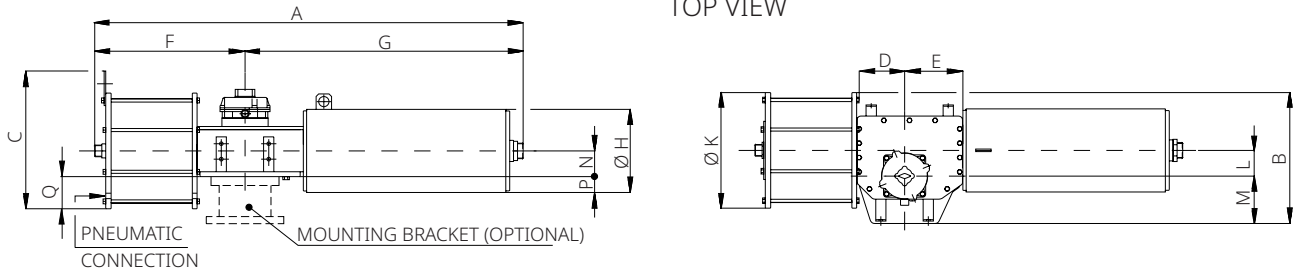


Table 82. Models 0.3-008A-100-OP to 0.9-0700-485-OP Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|-----------------|------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|-----|--------------|----------------|-----------------------------|
| 0.3-008A-100-OP | 1239 | 319 | 182 | 136 | 151 | 527 | 712 | 150 | 120 | 70 | 119 | 70 | 5 | -10 | 1/4 | 56.5 | 1.6 |
| 0.3-008B-100-OP | 1239 | 319 | 182 | 136 | 151 | 527 | 712 | 150 | 120 | 70 | 119 | 70 | 5 | -10 | 1/4 | 56.5 | 1.6 |
| 0.3-008C-100-OP | 1239 | 319 | 182 | 136 | 151 | 527 | 712 | 150 | 120 | 70 | 119 | 70 | 5 | -10 | 1/4 | 61.5 | 1.6 |
| 0.3-008A-135-OP | 1236 | 319 | 226 | 136 | 151 | 524 | 712 | 150 | 180 | 70 | 119 | 70 | 5 | 20 | 1/4 | 63.5 | 2.9 |
| 0.3-008B-135-OP | 1236 | 319 | 226 | 136 | 151 | 524 | 712 | 150 | 180 | 70 | 119 | 70 | 5 | 20 | 1/4 | 63.5 | 2.9 |
| 0.3-008C-135-OP | 1236 | 319 | 226 | 136 | 151 | 524 | 712 | 150 | 180 | 70 | 119 | 70 | 5 | 20 | 1/4 | 68.5 | 2.9 |
| 0.3-0100-135-OP | 1355 | 319 | 226 | 136 | 151 | 524 | 831 | 224 | 180 | 70 | 119 | 70 | 42 | 20 | 1/4 | 83.5 | 2.9 |
| 0.3-0100-175-OP | 1361 | 319 | 253 | 136 | 151 | 530 | 831 | 224 | 200 | 70 | 119 | 70 | 42 | 30 | 1/2 | 91.5 | 4.8 |
| 0.3-0150-175-OP | 1293 | 319 | 253 | 136 | 151 | 530 | 763 | 224 | 200 | 70 | 119 | 70 | 42 | 30 | 1/2 | 91.5 | 4.8 |
| 0.3-0100-235-OP | 1391 | 319 | 301 | 136 | 151 | 560 | 831 | 224 | 260 | 70 | 119 | 70 | 42 | 60 | 1/2 | 112.5 | 9 |
| 0.3-0150-235-OP | 1323 | 319 | 301 | 136 | 151 | 560 | 763 | 224 | 260 | 70 | 119 | 70 | 42 | 60 | 1/2 | 112.5 | 9 |
| 0.9-0350-385-OP | 1575 | 475 | 542 | 160 | 190 | 645 | 930 | 350 | 450 | 80 | 170 | 83 | 92 | 142 | 1 | 304.5 | 26 |
| 0.9-0400-385-OP | 1509 | 475 | 542 | 160 | 190 | 645 | 864 | 350 | 450 | 80 | 170 | 83 | 92 | 142 | 1 | 304.5 | 26 |
| 0.9-0420-385-OP | 1466 | 475 | 542 | 160 | 190 | 645 | 821 | 350 | 450 | 80 | 170 | 83 | 92 | 142 | 1 | 299.5 | 26 |
| 0.9-0700-385-OP | 1536 | 475 | 542 | 160 | 190 | 645 | 891 | 350 | 450 | 80 | 170 | 83 | 92 | 142 | 1 | 329.5 | 26 |
| 0.9-0720-385-OP | 1466 | 475 | 542 | 160 | 190 | 645 | 821 | 350 | 450 | 80 | 170 | 83 | 93 | 142 | 1 | 324.5 | 26 |
| 0.9-0350-435-OP | 1575 | 500 | 590 | 160 | 190 | 645 | 930 | 350 | 500 | 80 | 170 | 83 | 92 | 167 | 1 | 334.5 | 33 |
| 0.9-0400-435-OP | 1509 | 500 | 590 | 160 | 190 | 645 | 864 | 350 | 500 | 80 | 170 | 83 | 92 | 167 | 1 | 334.5 | 33 |
| 0.9-0420-435-OP | 1466 | 500 | 590 | 160 | 190 | 645 | 821 | 350 | 500 | 80 | 170 | 83 | 92 | 167 | 1 | 329.5 | 33 |
| 0.9-0700-435-OP | 1536 | 500 | 590 | 160 | 190 | 645 | 891 | 350 | 500 | 80 | 170 | 83 | 92 | 167 | 1 | 359.5 | 33 |
| 0.9-0720-435-OP | 1466 | 500 | 590 | 160 | 190 | 645 | 821 | 350 | 500 | 80 | 170 | 83 | 93 | 167 | 1 | 354.5 | 33 |
| 0.9-0350-485-OP | 1575 | 560 | 656 | 160 | 190 | 645 | 930 | 350 | 560 | 80 | 170 | 83 | 92 | 197 | 1 | 384.5 | 41 |
| 0.9-0400-485-OP | 1509 | 560 | 656 | 160 | 190 | 645 | 864 | 350 | 560 | 80 | 170 | 83 | 92 | 197 | 1 | 384.5 | 41 |
| 0.9-0420-485-OP | 1466 | 560 | 656 | 160 | 190 | 645 | 821 | 350 | 560 | 80 | 170 | 83 | 92 | 197 | 1 | 379.5 | 41 |
| 0.9-0700-485-OP | 1536 | 560 | 656 | 160 | 190 | 645 | 891 | 350 | 560 | 80 | 170 | 83 | 92 | 197 | 1 | 409.5 | 41 |

Table 83. Models 0.9-0720-485-OP to 1.5-0800-535-OP Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air consumption (liters) |
|-----------------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----------|-------------|--------------------------|
| 0.9-0720-485-OP | 1466 | 560 | 656 | 160 | 190 | 645 | 821 | 350 | 560 | 80 | 170 | 83 | 93 | 197 | 1 | 404.5 | 41 |
| 0.9-0200-235-OP | 1476 | 413 | 301 | 160 | 190 | 599 | 877 | 280 | 260 | 80 | 170 | 83 | 57 | 47 | 1/2 | 160.5 | 9 |
| 0.9-0250-235-OP | 1405 | 413 | 301 | 160 | 190 | 599 | 806 | 280 | 260 | 80 | 170 | 83 | 57 | 47 | 1/2 | 165.5 | 9 |
| 0.9-0200-280-OP | 1484 | 423 | 397 | 160 | 190 | 607 | 877 | 280 | 346 | 80 | 170 | 83 | 57 | 90 | 3/4 | 160.5 | 14 |
| 0.9-0250-280-OP | 1413 | 423 | 397 | 160 | 190 | 607 | 806 | 280 | 346 | 80 | 170 | 83 | 57 | 90 | 3/4 | 165.5 | 14 |
| 0.9-0350-280-OP | 1537 | 423 | 397 | 160 | 190 | 607 | 930 | 350 | 346 | 80 | 170 | 83 | 92 | 90 | 3/4 | 210.5 | 14 |
| 0.9-0400-280-OP | 1471 | 423 | 397 | 160 | 190 | 607 | 864 | 350 | 346 | 80 | 170 | 83 | 92 | 90 | 3/4 | 210.5 | 14 |
| 0.9-0200-335-OP | 1522 | 450 | 483 | 160 | 190 | 645 | 877 | 280 | 400 | 80 | 170 | 83 | 57 | 117 | 1 | 224.5 | 20 |
| 0.9-0250-335-OP | 1451 | 450 | 483 | 160 | 190 | 645 | 806 | 280 | 400 | 80 | 170 | 83 | 57 | 117 | 1 | 229.5 | 20 |
| 0.9-0350-335-OP | 1575 | 450 | 483 | 160 | 190 | 645 | 930 | 350 | 400 | 80 | 170 | 83 | 92 | 117 | 1 | 274.5 | 20 |
| 0.9-0400-335-OP | 1509 | 450 | 483 | 160 | 190 | 645 | 864 | 350 | 400 | 80 | 170 | 83 | 92 | 117 | 1 | 274.5 | 20 |
| 0.9-0420-335-OP | 1466 | 450 | 483 | 160 | 190 | 645 | 821 | 350 | 400 | 80 | 170 | 83 | 92 | 117 | 1 | 269.5 | 20 |
| 0.9-0700-335-OP | 1536 | 450 | 483 | 160 | 190 | 645 | 891 | 350 | 400 | 80 | 170 | 83 | 92 | 117 | 1 | 299.5 | 20 |
| 1.5-0800-385-OP | 1674 | 510 | 542 | 187 | 227 | 682 | 992 | 400 | 450 | 100 | 185 | 100 | 100 | 125 | 1 | 382 | 31 |
| 1.5-1100-385-OP | 1674 | 510 | 542 | 187 | 227 | 682 | 992 | 400 | 450 | 100 | 185 | 100 | 100 | 125 | 1 | 392 | 31 |
| 1.5-1200-385-OP | 1774 | 510 | 542 | 187 | 227 | 682 | 1092 | 370 | 450 | 100 | 185 | 100 | 85 | 125 | 1 | 402 | 31 |
| 1.5-0800-435-OP | 1674 | 535 | 590 | 187 | 227 | 682 | 992 | 400 | 500 | 100 | 185 | 100 | 100 | 150 | 1 | 412 | 39 |
| 1.5-1100-435-OP | 1674 | 535 | 590 | 187 | 227 | 682 | 992 | 400 | 500 | 100 | 185 | 100 | 100 | 150 | 1 | 422 | 39 |
| 1.5-1200-435-OP | 1774 | 535 | 590 | 187 | 227 | 682 | 1092 | 370 | 500 | 100 | 185 | 100 | 85 | 150 | 1 | 432 | 39 |
| 1.5-0800-485-OP | 1674 | 565 | 656 | 187 | 227 | 682 | 992 | 400 | 560 | 100 | 185 | 100 | 100 | 180 | 1 | 462 | 48 |
| 1.5-1100-485-OP | 1674 | 565 | 656 | 187 | 227 | 682 | 992 | 400 | 560 | 100 | 185 | 100 | 100 | 180 | 1 | 472 | 48 |
| 1.5-1200-485-OP | 1774 | 565 | 656 | 187 | 227 | 682 | 1092 | 370 | 560 | 100 | 185 | 100 | 85 | 180 | 1 | 482 | 48 |
| 1.5-0800-535-OP | 1714 | 620 | 716 | 187 | 227 | 722 | 992 | 400 | 620 | 100 | 185 | 100 | 100 | 210 | 1 | 532 | 59 |

Figure 9. Overall Dimensions

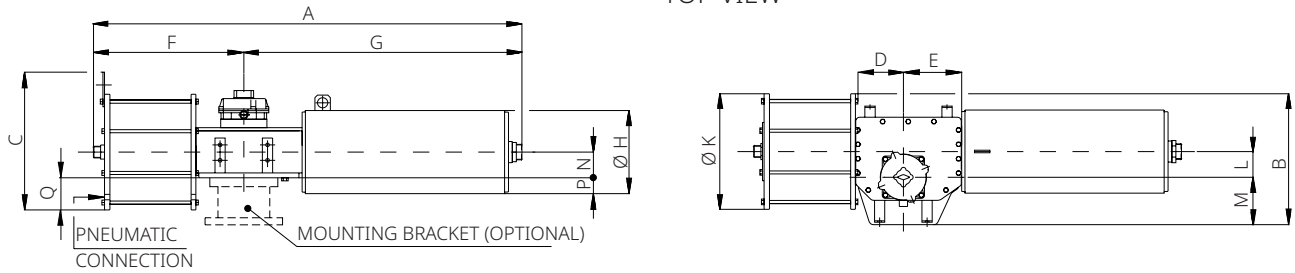


Table 84. Models 1.5-1100-535-OP to 6-2500-685-OP Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|-----------------|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|--------------|----------------|-----------------------------|
| 1.5-1100-535-OP | 1714 | 620 | 716 | 187 | 227 | 722 | 992 | 400 | 620 | 100 | 185 | 100 | 100 | 210 | 1 | 542 | 59 |
| 1.5-1200-535-OP | 1814 | 620 | 716 | 187 | 227 | 722 | 1092 | 370 | 620 | 100 | 185 | 100 | 85 | 210 | 1 | 552 | 59 |
| 1.5-1100-585-OP | 1719 | 670 | 775 | 187 | 227 | 727 | 992 | 400 | 670 | 100 | 185 | 100 | 100 | 235 | 1 | 602 | 70 |
| 1.5-1200-585-OP | 1819 | 670 | 775 | 187 | 227 | 727 | 1092 | 370 | 670 | 100 | 185 | 100 | 85 | 235 | 1 | 612 | 70 |
| 1.5-1300-385-OP | 1767 | 510 | 542 | 187 | 227 | 682 | 1085 | 370 | 450 | 100 | 185 | 100 | 85 | 125 | 1 | 410 | 31 |
| 1.5-1300-435-OP | 1767 | 535 | 590 | 187 | 227 | 682 | 1085 | 370 | 500 | 100 | 185 | 100 | 85 | 150 | 1 | 440 | 39 |
| 1.5-1300-485-OP | 1767 | 565 | 656 | 187 | 227 | 682 | 1085 | 370 | 560 | 100 | 185 | 100 | 85 | 180 | 1 | 490 | 48 |
| 1.5-1300-535-OP | 1807 | 620 | 716 | 187 | 227 | 722 | 1085 | 370 | 620 | 100 | 185 | 100 | 85 | 210 | 1 | 560 | 59 |
| 1.5-1300-585-OP | 1812 | 710 | 795 | 187 | 227 | 727 | 1085 | 370 | 710 | 100 | 185 | 100 | 85 | 255 | 1 | 620 | 70 |
| 3-2000-385-OP | 2338 | 600 | 542 | 285 | 330 | 924 | 1414 | 430 | 450 | 160 | 215 | 106 | 109 | 119 | 1 | 552 | 47 |
| 3-2000-435-OP | 2338 | 625 | 590 | 285 | 330 | 924 | 1414 | 430 | 500 | 160 | 215 | 106 | 109 | 144 | 1 | 587 | 60 |
| 3-2000-485-OP | 2337 | 655 | 675 | 285 | 330 | 923 | 1414 | 430 | 560 | 160 | 215 | 106 | 109 | 174 | 1 | 642 | 74 |
| 3-2000-535-OP | 2381 | 685 | 716 | 285 | 330 | 967 | 1414 | 430 | 620 | 160 | 215 | 106 | 109 | 204 | 1 | 712 | 90 |
| 3-2000-585-OP | 2381 | 710 | 794 | 285 | 330 | 967 | 1414 | 430 | 670 | 160 | 215 | 106 | 109 | 229 | 1 | 777 | 108 |
| 3-2050-385-OP | 2313 | 600 | 542 | 285 | 330 | 924 | 1389 | 430 | 450 | 160 | 215 | 106 | 109 | 119 | 1 | 570 | 47 |
| 3-2050-435-OP | 2313 | 625 | 590 | 285 | 330 | 924 | 1389 | 430 | 500 | 160 | 215 | 106 | 109 | 144 | 1 | 605 | 60 |
| 3-2050-485-OP | 2312 | 655 | 675 | 285 | 330 | 923 | 1389 | 430 | 560 | 160 | 215 | 106 | 109 | 174 | 1 | 660 | 74 |
| 3-2050-535-OP | 2356 | 685 | 716 | 285 | 330 | 967 | 1389 | 430 | 620 | 160 | 215 | 106 | 109 | 204 | 1 | 730 | 90 |
| 3-2050-585-OP | 2356 | 710 | 794 | 285 | 330 | 967 | 1389 | 430 | 670 | 160 | 215 | 106 | 109 | 229 | 1 | 805 | 108 |
| 6-2500-485-OP | 3044 | 740 | 675 | 327 | 379 | 1064 | 1980 | 380 | 560 | 185 | 260 | 140 | 120 | 140 | 1 | 938 | 85 |
| 6-2500-535-OP | 3054 | 755 | 716 | 327 | 379 | 1074 | 1980 | 380 | 620 | 185 | 260 | 140 | 120 | 170 | 1 | 1008 | 104 |
| 6-3800-535-OP | 3235 | 755 | 716 | 327 | 379 | 1074 | 2161 | 550 | 620 | 185 | 260 | 140 | 205 | 170 | 1 | 1363 | 104 |
| 6-2500-585-OP | 3054 | 780 | 794 | 327 | 379 | 1074 | 1980 | 380 | 670 | 185 | 260 | 140 | 120 | 195 | 1 | 1073 | 124 |
| 6-3800-585-OP | 3235 | 780 | 794 | 327 | 379 | 1074 | 2161 | 550 | 670 | 185 | 260 | 140 | 205 | 195 | 1 | 1428 | 124 |
| 6-2500-685-OP | 3243 | 830 | 879 | 327 | 379 | 1263 | 1980 | 380 | 770 | 185 | 260 | 140 | 120 | 245 | 2 x 1 | 1278 | 170 |

Table 85. Models 6-2500-735-OP to 14-8300-835-OP Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|----------------|------|-----|------|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|--------------|----------------|-----------------------------|
| 6-2500-735-OP | 3123 | 853 | 926 | 327 | 379 | 1143 | 1980 | 380 | 816 | 185 | 260 | 140 | 120 | 268 | 2 x 1 | 1388 | 196 |
| 6-3800-735-OP | 3304 | 853 | 926 | 327 | 379 | 1143 | 2161 | 550 | 816 | 185 | 260 | 140 | 205 | 268 | 2 x 1 | 1743 | 196 |
| 6-2500-635-OP | 3102 | 805 | 844 | 327 | 379 | 1122 | 1980 | 380 | 720 | 185 | 260 | 140 | 120 | 220 | 1 | 1168 | 146 |
| 6-3800-635-OP | 3283 | 805 | 844 | 327 | 379 | 1122 | 2161 | 550 | 720 | 185 | 260 | 140 | 205 | 220 | 1 | 1523 | 146 |
| 6-3900-535-OP | 3061 | 755 | 716 | 327 | 379 | 1074 | 1987 | 548 | 620 | 185 | 260 | 140 | 210 | 170 | 1 | 1453 | 104 |
| 6-3900-585-OP | 3061 | 780 | 794 | 327 | 379 | 1074 | 1987 | 548 | 670 | 185 | 260 | 140 | 210 | 195 | 1 | 1518 | 124 |
| 6-3900-635-OP | 3109 | 805 | 844 | 327 | 379 | 1122 | 1987 | 548 | 720 | 185 | 260 | 140 | 210 | 220 | 1 | 1613 | 146 |
| 6-3900-685-OP | 3250 | 830 | 879 | 327 | 379 | 1263 | 1987 | 548 | 770 | 185 | 260 | 140 | 210 | 245 | 2 x 1 | 1723 | 170 |
| 6-3900-735-OP | 3130 | 853 | 926 | 327 | 379 | 1143 | 1987 | 548 | 816 | 185 | 260 | 140 | 210 | 268 | 2 x 1 | 1833 | 196 |
| 14-5100-685-OP | 3431 | 915 | 879 | 376 | 435 | 1319 | 2112 | 552 | 770 | 200 | 330 | 193 | 153 | 192 | 2 x 1 | 1876 | 185 |
| 14-5400-685-OP | 3377 | 915 | 879 | 376 | 435 | 1319 | 2058 | 552 | 770 | 200 | 330 | 193 | 153 | 192 | 2 x 1 | 1961 | 185 |
| 14-5100-735-OP | 3309 | 938 | 926 | 376 | 435 | 1197 | 2112 | 552 | 816 | 200 | 330 | 193 | 153 | 215 | 2 x 1 | 1971 | 213 |
| 14-5400-735-OP | 3255 | 938 | 926 | 376 | 435 | 1197 | 2058 | 552 | 816 | 200 | 330 | 193 | 153 | 215 | 2 x 1 | 2056 | 213 |
| 14-8300-735-OP | 3309 | 938 | 926 | 376 | 435 | 1197 | 2112 | 552 | 816 | 200 | 330 | 193 | 153 | 215 | 2 x 1 | 2151 | 213 |
| 14-5100-785-OP | 3309 | 973 | 1004 | 376 | 435 | 1197 | 2112 | 552 | 886 | 200 | 330 | 193 | 153 | 250 | 2 x 1 | 2066 | 243 |
| 14-5400-785-OP | 3255 | 973 | 1004 | 376 | 435 | 1197 | 2058 | 552 | 886 | 200 | 330 | 193 | 153 | 250 | 2 x 1 | 2151 | 243 |
| 14-8300-785-OP | 3309 | 973 | 1004 | 376 | 435 | 1197 | 2112 | 552 | 886 | 200 | 330 | 193 | 153 | 250 | 2 x 1 | 2246 | 243 |
| 14-5100-835-OP | 3309 | 993 | 1038 | 376 | 435 | 1197 | 2112 | 552 | 926 | 200 | 330 | 193 | 153 | 270 | 2 x 1 | 2141 | 274 |
| 14-5400-835-OP | 3255 | 993 | 1038 | 376 | 435 | 1197 | 2058 | 552 | 926 | 200 | 330 | 193 | 153 | 270 | 2 x 1 | 2226 | 274 |
| 14-8300-835-OP | 3309 | 993 | 1038 | 376 | 435 | 1197 | 2112 | 552 | 926 | 200 | 330 | 193 | 153 | 270 | 2 x 1 | 2321 | 274 |

Figure 10. Overall Dimensions

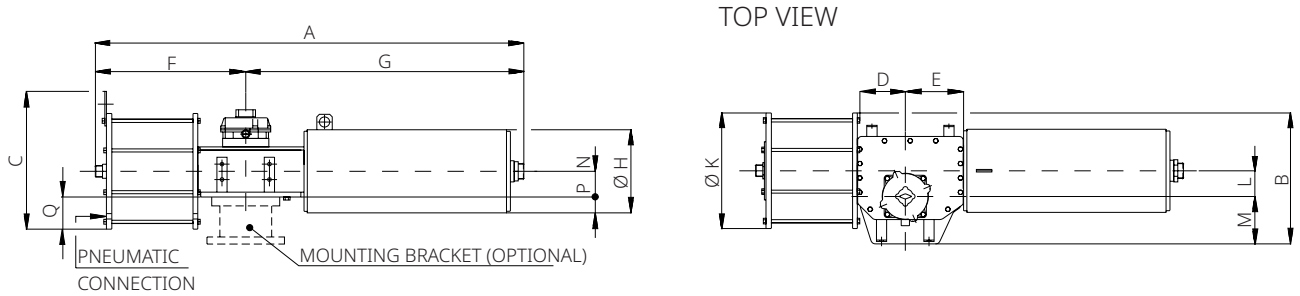


Table 86. Models 14-5100-935-OP to 18-9600-1200-OP Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|------------------|------|------|------|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|-----------|-------------|--------------------------|
| 14-5100-935-OP | 3388 | 1058 | 1180 | 376 | 435 | 1276 | 2112 | 552 | 1056 | 200 | 330 | 193 | 153 | 335 | 2 x 1 | 2601 | 343 |
| 14-5400-935-OP | 3334 | 1058 | 1180 | 376 | 435 | 1276 | 2058 | 552 | 1056 | 200 | 330 | 193 | 153 | 335 | 2 x 1 | 2686 | 343 |
| 14-8300-935-OP | 3388 | 1058 | 1180 | 376 | 435 | 1276 | 2112 | 552 | 1056 | 200 | 330 | 193 | 153 | 335 | 2 x 1 | 2781 | 343 |
| 14-5100-635-OP | 3290 | 890 | 844 | 376 | 435 | 1178 | 2112 | 552 | 720 | 200 | 330 | 193 | 153 | 167 | 1 | 1766 | 159 |
| 14-5400-635-OP | 3236 | 890 | 844 | 376 | 435 | 1178 | 2058 | 552 | 720 | 200 | 330 | 193 | 153 | 167 | 1 | 1851 | 159 |
| 14-5100-885-OP | 3388 | 1030 | 1123 | 376 | 435 | 1276 | 2112 | 552 | 1000 | 200 | 330 | 193 | 153 | 307 | 2 x 1 | 2481 | 308 |
| 14-5400-885-OP | 3334 | 1030 | 1123 | 376 | 435 | 1276 | 2058 | 552 | 1000 | 200 | 330 | 193 | 153 | 307 | 2 x 1 | 2566 | 308 |
| 14-8300-885-OP | 3388 | 1030 | 1123 | 376 | 435 | 1276 | 2112 | 552 | 1000 | 200 | 330 | 193 | 153 | 307 | 2 x 1 | 2661 | 308 |
| 18-10500-1000-OP | 4186 | 1145 | 1264 | 424 | 492 | 1412 | 2774 | 710 | 1120 | 230 | 355 | 193 | 252 | 367 | 2 x 1 | 4657 | 456 |
| 18-11000-1000-OP | 4068 | 1145 | 1264 | 424 | 492 | 1412 | 2656 | 710 | 1120 | 230 | 355 | 193 | 252 | 367 | 2 x 1 | 4622 | 456 |
| 18-9600-1000-OP | 4101 | 1145 | 1264 | 424 | 492 | 1412 | 2689 | 600 | 1120 | 230 | 355 | 193 | 197 | 367 | 2 x 1 | 3717 | 456 |
| 18-9800-1000-OP | 4101 | 1145 | 1264 | 424 | 492 | 1412 | 2689 | 600 | 1120 | 230 | 355 | 193 | 197 | 367 | 2 x 1 | 3932 | 456 |
| 18-9600-835-OP | 4060 | 1048 | 1038 | 424 | 492 | 1371 | 2689 | 600 | 926 | 230 | 355 | 193 | 197 | 270 | 2 x 1 | 3002 | 318 |
| 18-9800-835-OP | 4060 | 1048 | 1038 | 424 | 492 | 1371 | 2689 | 600 | 926 | 230 | 355 | 193 | 197 | 270 | 2 x 1 | 3217 | 318 |
| 18-10500-935-OP | 4180 | 1113 | 1180 | 424 | 492 | 1406 | 2774 | 710 | 1056 | 230 | 355 | 193 | 252 | 335 | 2 x 1 | 4402 | 398 |
| 18-11000-935-OP | 4062 | 1113 | 1180 | 424 | 492 | 1406 | 2656 | 710 | 1056 | 230 | 355 | 193 | 252 | 335 | 2 x 1 | 4367 | 398 |
| 18-9600-935-OP | 4095 | 1113 | 1180 | 424 | 492 | 1406 | 2689 | 600 | 1056 | 230 | 355 | 193 | 197 | 335 | 2 x 1 | 3462 | 398 |
| 18-9800-935-OP | 4095 | 1113 | 1180 | 424 | 492 | 1406 | 2689 | 600 | 1056 | 230 | 355 | 193 | 197 | 335 | 2 x 1 | 3677 | 398 |
| 18-10500-1100-OP | 4183 | 1220 | 1364 | 424 | 492 | 1409 | 2774 | 710 | 1220 | 230 | 355 | 193 | 252 | 417 | 2 x 1 | 5017 | 552 |
| 18-11000-1100-OP | 4065 | 1220 | 1364 | 424 | 492 | 1409 | 2656 | 710 | 1220 | 230 | 355 | 193 | 252 | 417 | 2 x 1 | 4982 | 552 |
| 18-9600-1100-OP | 4098 | 1220 | 1364 | 424 | 492 | 1409 | 2689 | 600 | 1220 | 230 | 355 | 193 | 197 | 417 | 2 x 1 | 4077 | 552 |
| 18-9800-1100-OP | 4098 | 1220 | 1364 | 424 | 492 | 1409 | 2689 | 600 | 1220 | 230 | 355 | 193 | 197 | 417 | 2 x 1 | 4292 | 552 |
| 18-10500-1200-OP | 4183 | 1330 | 1469 | 424 | 492 | 1409 | 2774 | 710 | 1330 | 230 | 355 | 193 | 252 | 472 | 2 x 1 | 5378 | 660 |
| 18-11000-1200-OP | 4065 | 1330 | 1469 | 424 | 492 | 1409 | 2656 | 710 | 1330 | 230 | 355 | 193 | 252 | 472 | 2 x 1 | 5343 | 660 |
| 18-9600-1200-OP | 4098 | 1310 | 1459 | 424 | 492 | 1409 | 2689 | 600 | 1310 | 230 | 355 | 193 | 197 | 462 | 2 x 1 | 4438 | 660 |

Table 87. Models 18-9800-1200-OP to 80-19700-1800-OP Dimensions (mm)

| Model | A | B | C | D | E | F | G | H | K | L | M | N | P | Q | NPT (in.) | Weight (kg) | Air Consumption (liters) |
|------------------|------|------|------|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|--------------|----------------|-----------------------------|
| 18-9800-1200-OP | 4098 | 1310 | 1459 | 424 | 492 | 1409 | 2689 | 600 | 1310 | 230 | 355 | 193 | 197 | 462 | 2 x 1 | 4653 | 660 |
| 32-12000-1100-OP | 4679 | 1300 | 1364 | 505 | 585 | 1675 | 3004 | 800 | 1220 | 270 | 420 | 236 | 254 | 374 | 2 x 1 | 5941 | 650 |
| 32-15000-1100-OP | 4679 | 1300 | 1364 | 505 | 585 | 1675 | 3004 | 800 | 1220 | 270 | 420 | 236 | 254 | 374 | 2 x 1 | 6239 | 650 |
| 32-9900-1100-OP | 4617 | 1300 | 1364 | 505 | 585 | 1675 | 2942 | 600 | 1220 | 270 | 420 | 236 | 154 | 374 | 2 x 1 | 4919 | 650 |
| 32-12000-1300-OP | 4719 | 1430 | 1580 | 505 | 585 | 1718 | 3001 | 980 | 1430 | 270 | 420 | 236 | 254 | 479 | 2 x 1 | 6899 | 910 |
| 32-15000-1300-OP | 4722 | 1430 | 1580 | 505 | 585 | 1718 | 3004 | 800 | 1430 | 270 | 420 | 236 | 254 | 479 | 2 x 1 | 7197 | 910 |
| 32-9900-1300-OP | 4660 | 1430 | 1580 | 505 | 585 | 1718 | 2942 | 600 | 1430 | 270 | 420 | 236 | 154 | 479 | 2 x 1 | 5877 | 910 |
| 50-15400-1100-OP | 4989 | 1330 | 1364 | 548 | 633 | 1867 | 3122 | 800 | 1220 | 300 | 420 | 233 | 257 | 377 | 2 x 1 | 6590 | 720 |
| 50-15600-1100-OP | 4989 | 1330 | 1364 | 548 | 633 | 1867 | 3122 | 800 | 1220 | 300 | 420 | 233 | 258 | 377 | 2 x 1 | 6800 | 720 |
| 50-17300-1100-OP | 5006 | 1330 | 1364 | 548 | 633 | 1867 | 3139 | 860 | 1220 | 300 | 420 | 233 | 317 | 377 | 2 x 1 | 7165 | 720 |
| 50-15400-1450-OP | 4966 | 1600 | 1805 | 548 | 633 | 1844 | 3122 | 800 | 1600 | 300 | 420 | 233 | 257 | 567 | 2 x 1 | 8115 | 1256 |
| 50-15600-1450-OP | 4966 | 1600 | 1805 | 548 | 633 | 1844 | 3122 | 800 | 1600 | 300 | 420 | 233 | 258 | 567 | 2 x 1 | 8325 | 1256 |
| 50-17300-1450-OP | 4983 | 1600 | 1805 | 548 | 633 | 1844 | 3139 | 860 | 1600 | 300 | 420 | 233 | 317 | 567 | 2 x 1-1/2 | 8690 | 1256 |
| 50-18600-1450-OP | 5012 | 1600 | 1805 | 548 | 633 | 1844 | 3168 | 866 | 1600 | 300 | 420 | 233 | 320 | 567 | 2 x 1-1/2 | 9340 | 1256 |
| 65-18400-1600-OP | 5192 | 1750 | 1993 | 623 | 701 | 1949 | 3243 | 866 | 1750 | 285 | 455 | 302 | 251 | 573 | 2 x 1 | 11200 | 1480 |
| 65-19400-1600-OP | 5307 | 1750 | 1993 | 623 | 701 | 1949 | 3358 | 866 | 1750 | 285 | 455 | 302 | 251 | 573 | 2 x 1 | 11570 | 1480 |
| 65-18400-1700-OP | 5221 | 1900 | 2160 | 623 | 701 | 1978 | 3243 | 866 | 1900 | 285 | 455 | 302 | 251 | 648 | 2 x 1 | 12505 | 1670 |
| 65-19400-1700-OP | 5336 | 1900 | 2160 | 623 | 701 | 1978 | 3358 | 866 | 1900 | 285 | 455 | 302 | 251 | 648 | 2 x 1 | 12875 | 1670 |
| 65-18400-1800-OP | 5222 | 1960 | 2196 | 623 | 701 | 1979 | 3243 | 866 | 1960 | 285 | 455 | 302 | 251 | 678 | 2 x 1 | 13070 | 1875 |
| 65-19400-1800-OP | 5337 | 1960 | 2196 | 623 | 701 | 1979 | 3358 | 866 | 1960 | 285 | 455 | 302 | 251 | 678 | 2 x 1 | 13440 | 1875 |
| 80-18700-1800-OP | 5679 | 1960 | 2196 | 663 | 761 | 2263 | 3416 | 866 | 1960 | 350 | 450 | 302 | 251 | 678 | 2 x 1 | 13410 | 2250 |
| 80-19700-1800-OP | 5796 | 1960 | 2196 | 663 | 761 | 2263 | 3533 | 866 | 1960 | 350 | 450 | 302 | 251 | 678 | 2 x 1 | 13900 | 2250 |

ALGA/ALGAS/ALGAS-QA Pneumatic Actuator

Mounting Dimensions

Figure 11. Actuator Models 0.3 to 6 (SCN6200E - Rev. 15/10/19)

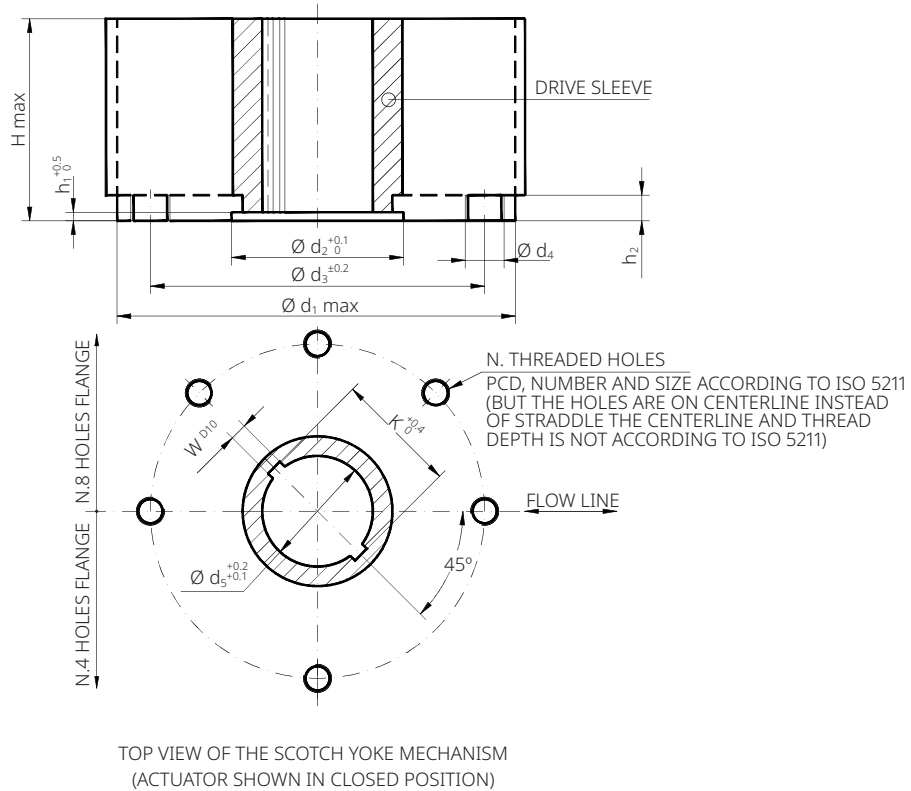


Table 88. Models 0.3 to 6 Coupling Dimensions (mm)

| Actuator Model | $\varnothing d_1$ | $\varnothing d_2$ | $\varnothing d_3$ | $\varnothing d_4$ | N | h_1 | h_2 | H max | $\varnothing d_5$ | W | K |
|----------------|-------------------|-------------------|-------------------|-------------------|---|-------|-------|-------|-------------------|----|-------|
| 0.3 | 240 | 93 | 165 | M20 | 4 | 5 | 17 | 127 | 70 | 12 | 75.6 |
| 0.9 | 310 | 112 | 254 | M16 | 8 | 5 | 19 | 150 | 86 | 14 | 93.6 |
| 1.5 | 360 | 144 | 298 | M20 | 8 | 6 | 19 | 190 | 112 | 18 | 119.0 |
| 3 | 430 | 195 | 356 | M30 | 8 | 9 | 23 | 200 | 157 | 25 | 167.8 |
| 6 | 520 | 250 | 406 | M36 | 8 | 14 | 29 | 260 | 200 | 28 | 212.8 |

NOTE:
 $\varnothing d_1$ is maximum adapter flange diameter.

Figure 12. Actuator Model 14
(SCN6201E - Rev. 16/06/20)

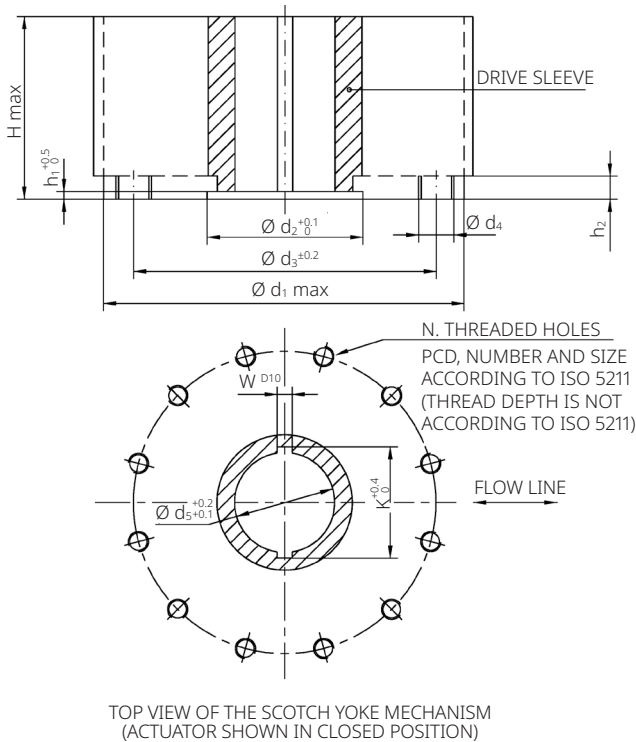


Figure 13. Actuator Models 18 and 32
(SCN6201E - Rev. 16/06/20)

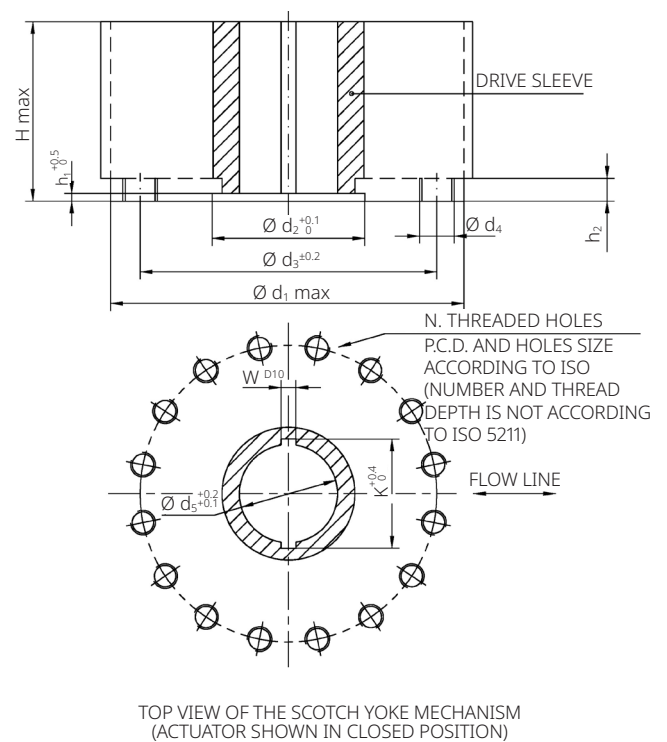


Table 89. Model 14 Coupling Dimensions (mm)

| Actuator Model | $\varnothing d_1$ | $\varnothing d_2$ | $\varnothing d_3$ | $\varnothing d_4$ | N | h_1 | h_2 | H max | $\varnothing d_5$ | W | K |
|----------------|-------------------|-------------------|-------------------|-------------------|----|-------|-------|-------|-------------------|----|-------|
| 14 | 580 | 250 | 483 | M36 | 12 | 10 | 29 | 340 | 175 | 45 | 195.8 |

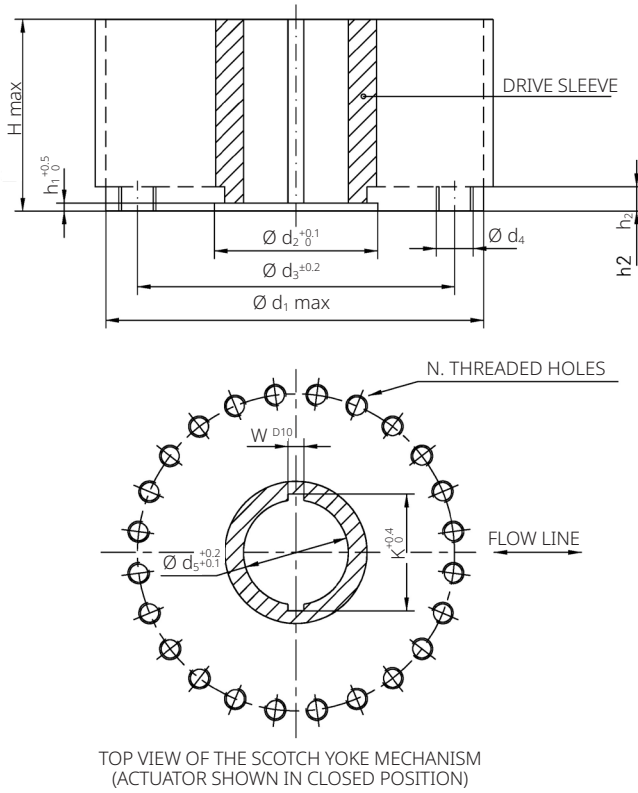
Table 90. Models 18 and 32 Coupling Dimensions (mm)

| Actuator Model | $\varnothing d_1$ | $\varnothing d_2$ | $\varnothing d_3$ | $\varnothing d_4$ | N | h_1 | h_2 | H max | $\varnothing d_5$ | W | K |
|----------------|-------------------|-------------------|-------------------|-------------------|----|-------|-------|-------|-------------------|----|-------|
| 18 | 680 | 290 | 603 | M36 | 16 | 12 | 32 | 350 | 200 | 45 | 220.8 |
| 32 | 780 | 310 | 603 | M36 | 16 | 12 | 32 | 400 | 220 | 50 | 242.8 |

NOTE:

$\varnothing d_1$ is maximum adapter flange diameter.

**Figure 14. Actuator Model 50
(SCN62011 - Rev. 15/10/19)**



**Figure 15. Actuator Models 65 and 80
(SCN62013 - Rev. 19/06/20)**

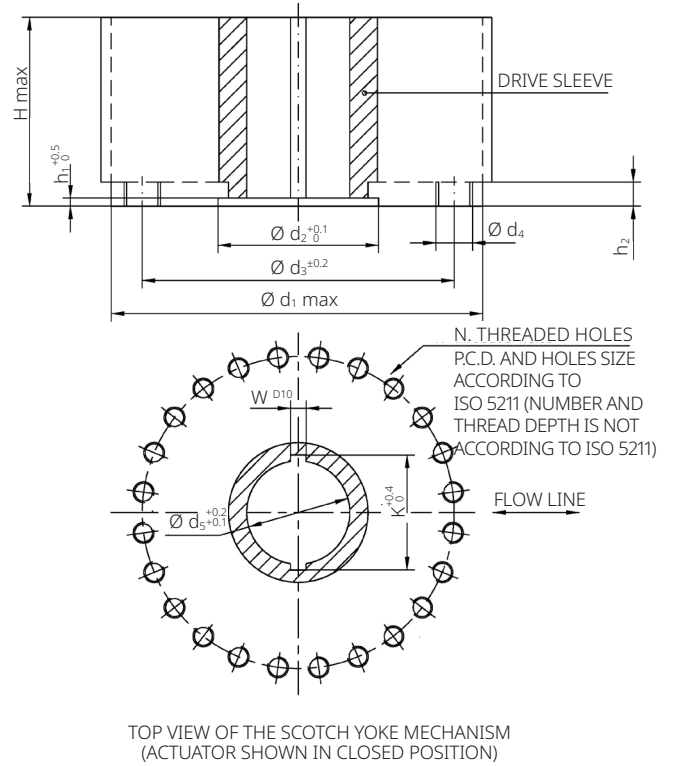


Table 91. Model 50 Coupling Dimensions (mm)

| Actuator Model | Ø d ₁ | Ø d ₂ | Ø d ₃ | Ø d ₄ | N | h ₁ | h ₂ | H max | Ø d ₅ | W | K |
|----------------|------------------|------------------|------------------|------------------|----|----------------|----------------|-------|------------------|----|-------|
| 50 | 800 | 315 | 698 | M36 | 24 | 10 | 32 | 430 | 240 | 56 | 264.8 |

Table 92. Models 65 and 80 Coupling Dimensions (mm)

| Actuator Model | Ø d ₁ | Ø d ₂ | Ø d ₃ | Ø d ₄ | N | h ₁ | h ₂ | H max | Ø d ₅ | W | K |
|----------------|------------------|------------------|------------------|------------------|----|----------------|----------------|-------|------------------|----|-------|
| 65 | 910 | 370 | 813 | M42 | 24 | 12 | 37 | 540 | 280 | 46 | 327.4 |
| 80 | 900 | 970 | 813 | M42 | 24 | 12 | 37 | 540 | 280 | 46 | 327.4 |

NOTE:

Ø d₁ is maximum adapter flange diameter.

Figure 16. Actuator Model 100 (SCN62015 - Rev. 22/07/22)

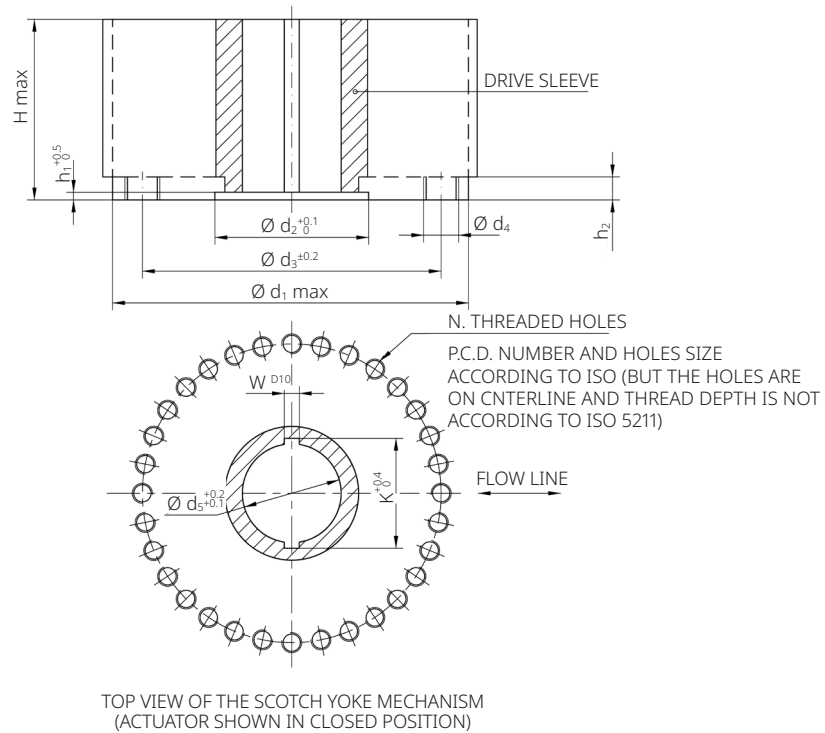


Table 93. Model 100 Coupling Dimensions (mm)

| Actuator Model | $\varnothing d_1$ | $\varnothing d_2$ | $\varnothing d_3$ | $\varnothing d_4$ | N | h_1 | h_2 | H max | $\varnothing d_5$ | W | K |
|----------------|-------------------|-------------------|-------------------|-------------------|----|-------|-------|-------|-------------------|----|-------|
| 100 | 1200 | 450 | 1042 | M42 | 32 | 8 | 57 | 600 | 300 | 70 | 328.8 |

NOTE:

$\varnothing d_1$ is maximum adapter flange diameter.

Figure 17. Stem Acceptance

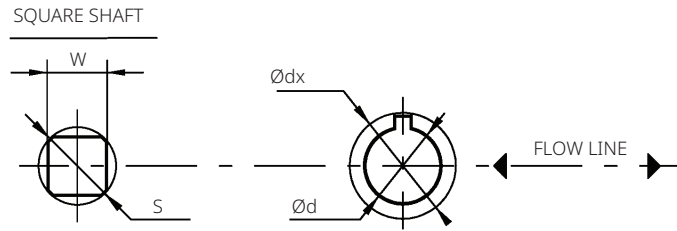


Table 94. Stem Acceptance Dimensions for Insert Bushes (mm)

| Housing Size | Maximum Stem Diameter with Rectangular Key | Maximum Accepted Diameter Described by the key | Maximum Accepted Square Stem (mm) | | Maximum Accepted Square Stem Height (mm)** |
|--------------|--|--|-----------------------------------|-----|--|
| | d (bxh) ^[2] (mm) | dx ^[3] (mm) | W | S* | |
| 0.3 | 53 (16x10) | 64 | 46 | 64 | 120 |
| 0.9 | 62 (18x11) | 73 | 55 | 73 | 140 |
| 1.5 | 85 (22x14) | 99 | 73 | 99 | 180 |
| 3 | 126 (32x18) | 145 | 104 | 145 | 190 |
| 6 | 161 (40x22) | 185 | 133 | 185 | 250 |
| 14 | 105 (28x16) | 121 | - | - | 340 |
| 18 | 122 (32x18) | 140 | - | - | 350 |
| 32 | 160 (40x22) | 183 | - | - | 400 |
| 50 | 160 (40x22) | 183 | - | - | 430 |
| 65 | - | - | - | - | 540 |
| 80 | - | - | - | - | 540 |
| 100 | - | - | - | - | 600 |

NOTES:

1. The listed maximum acceptance values are applicable for stems with keyways parallel or perpendicular to the flow line and for square stems with diagonal parallel with the flow line.
 2. Key according to UNI6604 or DIN 6885 sh.1 or ISO 773 or equivalent.
 3. For stem with key not correspondent to any specification, check the dimension dx.
- * S max: maximum external diameter in case of rounded edge.
 ** Without adapter flange.

Accessories Mounting Dimensions

Figure 18. Actuator Models 0.3 to 100

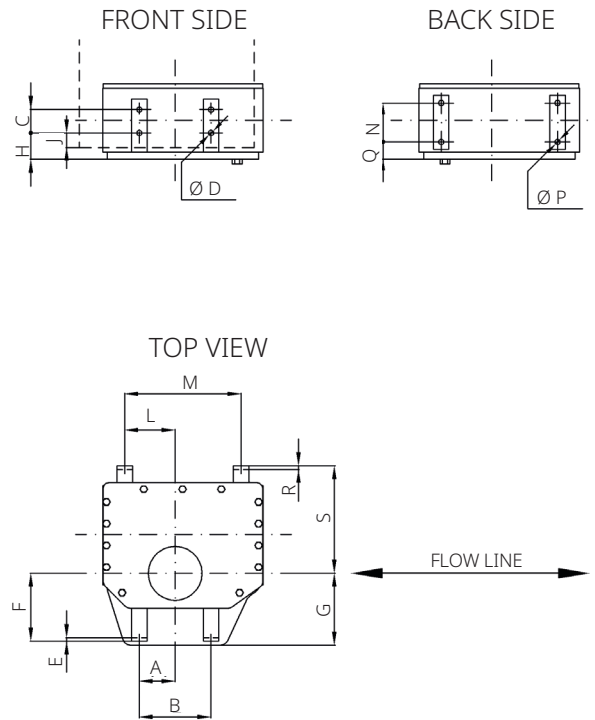


Table 95. Accessories Mounting Dimensions (mm)

| Actuator Model | A | B | C | ØD | E | F | G | H | J | L | M | N | ØP | Q | R | S |
|----------------|-------|------|-----|----|----|-------|-----|-----|----|-----|------|-----|----|-----|----|------|
| 0.3 | 77.5 | 155 | 60 | 14 | 5 | 113 | 119 | 37 | 12 | 92 | 200 | 60 | 14 | 36 | 5 | 200 |
| 0.9 | 92.5 | 185 | 60 | 14 | 5 | 155 | 170 | 61 | 35 | 85 | 200 | 60 | 14 | 48 | 5 | 243 |
| 1.5 | 92.5 | 185 | 60 | 14 | 5 | 175 | 185 | 62 | 35 | 130 | 300 | 100 | 14 | 45 | 5 | 284 |
| 3 | 117.5 | 235 | 85 | 23 | 8 | 203 | 215 | 57 | 25 | 230 | 500 | 100 | 14 | 54 | 5 | 371 |
| 6 | 137 | 455 | 115 | 23 | 8 | 248 | 260 | 59 | 22 | 224 | 500 | 100 | 14 | 87 | 8 | 480 |
| 14 | 315 | 630 | 200 | 27 | 10 | 227 | 330 | 97 | 55 | 220 | 500 | 170 | 27 | 99 | 8 | 543 |
| 18 | 315 | 630 | 200 | 27 | 10 | 235 | 340 | 72 | 32 | 306 | 680 | 215 | 27 | 80 | 10 | 600 |
| 32 | 315 | 630 | 200 | 27 | 10 | 385 | 395 | 72 | 32 | 414 | 890 | 215 | 27 | 149 | 10 | 660 |
| 50 | 387.5 | 860 | 250 | 30 | 12 | 372 | 387 | 77 | 35 | 473 | 1030 | 215 | 27 | 163 | 10 | 1072 |
| 65 | 391 | 860 | 250 | 30 | 15 | 380 | 455 | 107 | 50 | 474 | 1030 | 215 | 27 | 270 | 15 | 830 |
| 80 | 500 | 1000 | 250 | 30 | 15 | 437.5 | 450 | 107 | 50 | 500 | 1100 | 215 | 27 | 270 | 15 | 900 |
| 100 | 500 | 1100 | 250 | 30 | 20 | 564 | 600 | 127 | 50 | 500 | 1100 | 215 | 27 | 333 | 15 | 1275 |

Figure 19. Accessories Mounting Holes on Actuator Top (Cover and Yoke)

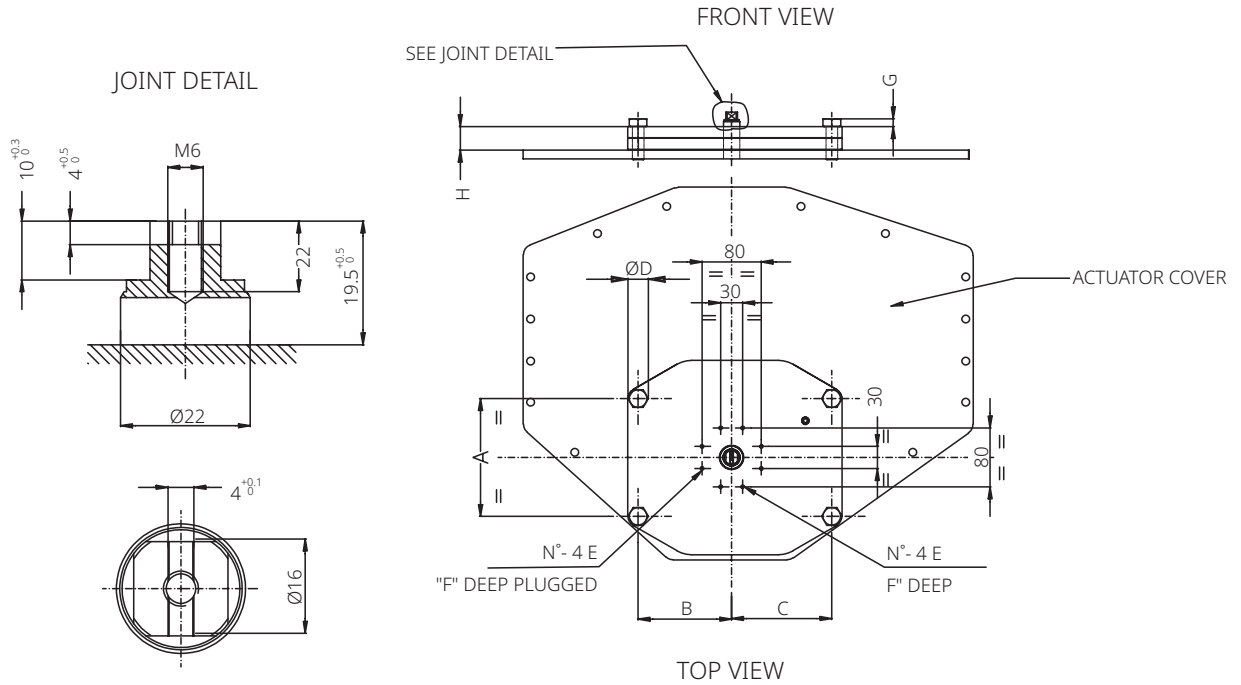


Table 96. Dimensions (mm)

| Actuator Model | A | B | C | D | E | F | G | H |
|----------------|-------|-------|-------|-----|----|---|-----|----|
| 0.3 | N/A | N/A | N/A | N/A | M5 | 9 | N/A | 32 |
| 0.9 | N/A | N/A | N/A | N/A | M5 | 9 | N/A | 32 |
| 1.5 | N/A | N/A | N/A | N/A | M5 | 9 | N/A | 32 |
| 3 | 160 | 127 | 136 | 30 | M5 | 9 | 11 | 32 |
| 6 | 160 | 127 | 136 | 30 | M5 | 9 | 11 | 32 |
| 14 | 160 | 127 | 136 | 30 | M5 | 9 | 11 | 32 |
| 18 | 314 | 109 | 109 | 30 | M5 | 9 | 11 | 29 |
| 32 | 314 | 109 | 109 | 30 | M5 | 9 | 11 | 29 |
| 50 | 280.6 | 138.5 | 138.5 | 37 | M5 | 9 | 13 | 32 |
| 65 | 410 | 180 | 180 | 44 | M5 | 9 | 16 | 32 |
| 80 | 410 | 180 | 180 | 44 | M5 | 9 | 16 | 32 |
| 100 | 460 | 205 | 205 | 44 | M5 | 9 | 16 | 32 |

Selection Guide

Table 97. Scotch Yoke Double-Acting Pneumatic Actuators

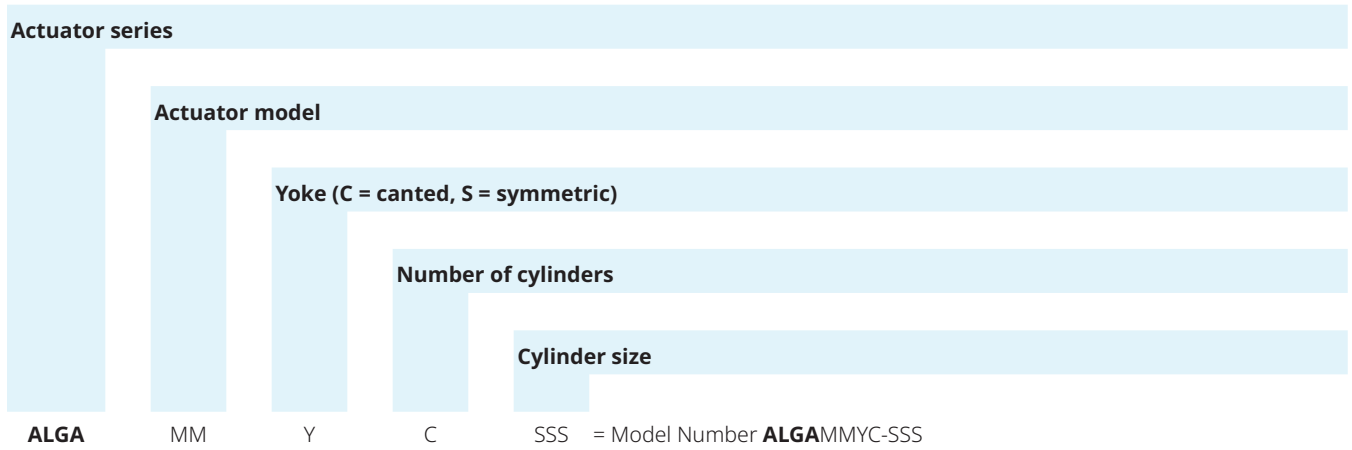
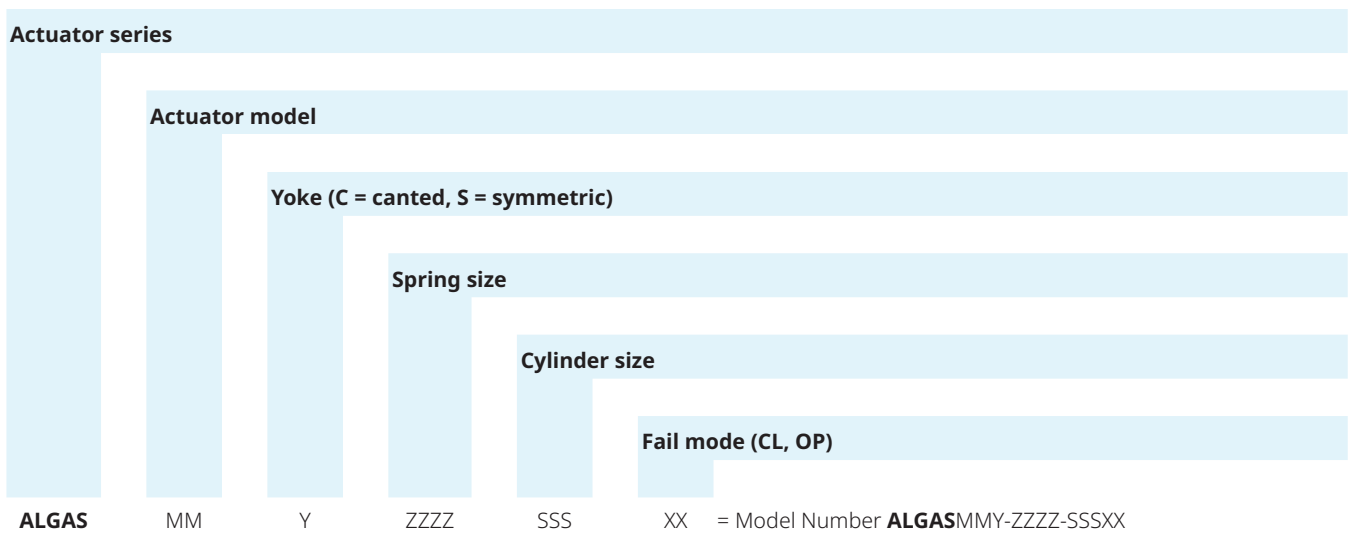


Table 98. Scotch Yoke Single-Acting Pneumatic Actuators



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