

### Valbia Pneumatic Actuators - Torque Output SR Actuators

| MODEL SET | SPRING TORQUE |       | AIR SUPPLY PRESSURE Bar |      |      |       |      |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------|---------------|-------|-------------------------|------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|           | Nm            |       | 2.5                     |      | 3    |       | 4    |       | 5     |       | 5.5   |       | 6     |       | 7     |       | 8     |       |       |
|           | 0°            | 90°   | 0°                      | 90°  | 0°   | 90°   | 0°   | 90°   | 0°    | 90°   | 0°    | 90°   | 0°    | 90°   | 0°    | 90°   | 0°    | 90°   |       |
|           | MMD           | MMC   | MAD                     | MAC  | MAD  | MAC   | MAD  | MAC   | MAD   | MAC   | MAD   | MAC   | MAD   | MAC   | MAD   | MAC   | MAD   | MAC   |       |
| SR52      | 01            | 3.6   | 4.9                     | 4.5  | 1.6  | 6.4   | 3.5  | 10.2  | 7.4   |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 4.8   | 6.7                     |      |      | 5.2   | 1.7  | 9.0   | 5.6   | 12.8  | 9.4   |       |       |       |       |       |       |       |       |
|           | 03            | 5.2   | 7.5                     |      |      |       |      | 8.6   | 4.8   | 12.4  | 8.6   | 14.3  | 10.5  | 16.2  | 12.4  |       |       |       |       |
|           | 04            | 6.5   | 9.3                     |      |      |       |      | 7.3   | 3.0   | 11.2  | 6.8   | 13.1  | 8.7   | 15.0  | 10.6  | 18.8  | 14.5  |       |       |
|           | 05            | 8.1   | 11.9                    |      |      |       |      |       |       | 9.5   | 4.3   | 11.4  | 6.2   | 13.3  | 8.1   | 17.1  | 11.9  | 20.9  | 15.7  |
| SR63      | 01            | 5.0   | 9.6                     | 8.6  | 2.6  | 12.0  | 6.0  | 18.9  | 12.8  |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 6.6   | 12.3                    |      |      | 10.5  | 3.2  | 17.4  | 10.1  | 24.2  | 17.0  |       |       |       |       |       |       |       |       |
|           | 03            | 8.0   | 14.5                    |      |      |       |      | 15.9  | 7.9   | 22.8  | 14.8  | 26.2  | 18.2  | 29.6  | 21.7  |       |       |       |       |
|           | 04            | 9.6   | 17.2                    |      |      |       |      | 14.4  | 5.2   | 21.2  | 12.0  | 24.6  | 15.5  | 28.1  | 18.9  | 34.9  | 25.8  |       |       |
|           | 05            | 12.5  | 22.1                    |      |      |       |      |       |       | 18.2  | 7.1   | 21.7  | 10.6  | 25.1  | 14.0  | 31.9  | 20.9  | 38.8  | 27.7  |
| SR75      | 01            | 10.1  | 19.5                    | 15.8 | 3.9  | 22.0  | 10.1 | 34.4  | 22.5  |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 13.3  | 25.6                    |      |      | 18.8  | 4.0  | 31.2  | 16.4  | 43.5  | 28.7  |       |       |       |       |       |       |       |       |
|           | 03            | 15.1  | 28.2                    |      |      |       |      | 29.4  | 13.8  | 41.8  | 26.1  | 48.0  | 32.3  | 54.1  | 38.5  |       |       |       |       |
|           | 04            | 18.3  | 34.3                    |      |      |       |      | 26.2  | 7.7   | 38.6  | 20.0  | 44.8  | 26.2  | 50.9  | 32.4  | 63.3  | 44.8  |       |       |
|           | 05            | 23.3  | 43.0                    |      |      |       |      |       |       | 33.6  | 11.3  | 39.8  | 17.5  | 46.0  | 23.7  | 58.3  | 36.1  | 70.7  | 48.4  |
| SR85      | 01            | 16.1  | 27.3                    | 22.2 | 7.6  | 31.3  | 16.6 | 49.5  | 34.8  |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 19.9  | 33.7                    |      |      | 27.6  | 10.3 | 45.7  | 28.4  | 63.9  | 46.6  |       |       |       |       |       |       |       |       |
|           | 03            | 24.3  | 40.8                    |      |      |       |      | 41.3  | 21.3  | 59.4  | 39.5  | 68.5  | 48.6  | 77.6  | 57.6  |       |       |       |       |
|           | 04            | 28.1  | 47.1                    |      |      |       |      | 37.5  | 15.0  | 55.7  | 33.1  | 64.8  | 42.2  | 73.8  | 51.3  | 92.0  | 69.4  |       |       |
|           | 05            | 36.3  | 60.6                    |      |      |       |      |       |       | 47.5  | 19.6  | 56.6  | 28.7  | 65.6  | 37.8  | 83.8  | 55.9  | 101.9 | 74.1  |
| SR100     | 01            | 24.6  | 44.6                    | 36.0 | 10.1 | 50.2  | 24.2 | 78.4  | 52.5  |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 32.6  | 58.9                    |      |      | 42.2  | 9.9  | 70.5  | 38.1  | 98.7  | 66.4  |       |       |       |       |       |       |       |       |
|           | 03            | 35.9  | 63.7                    |      |      |       |      | 67.1  | 33.3  | 95.4  | 61.6  | 109.5 | 75.7  | 123.6 | 89.9  |       |       |       |       |
|           | 04            | 43.9  | 78.0                    |      |      |       |      | 59.1  | 19.0  | 87.4  | 47.3  | 101.5 | 61.4  | 115.7 | 75.5  | 143.9 | 103.8 |       |       |
|           | 05            | 55.2  | 97.2                    |      |      |       |      |       |       | 76.1  | 28.1  | 90.2  | 42.3  | 104.3 | 56.4  | 132.6 | 84.7  | 160.8 | 112.9 |
| SR115     | 01            | 41.0  | 74.4                    | 61.3 | 18.4 | 84.7  | 41.8 | 131.4 | 88.5  |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 50.7  | 94.4                    |      |      | 74.9  | 21.8 | 121.6 | 68.5  | 168.5 | 115.2 |       |       |       |       |       |       |       |       |
|           | 03            | 60.8  | 108.1                   |      |      |       |      | 111.6 | 54.7  | 158.3 | 101.5 | 181.6 | 124.8 | 205.0 | 148.2 |       |       |       |       |
|           | 04            | 70.6  | 128.1                   |      |      |       |      | 101.8 | 34.8  | 148.5 | 81.5  | 171.9 | 104.9 | 195.2 | 128.2 | 241.9 | 174.9 |       |       |
|           | 05            | 90.4  | 161.8                   |      |      |       |      |       |       | 128.7 | 47.8  | 152.0 | 71.1  | 175.4 | 94.5  | 222.1 | 141.2 | 268.8 | 187.9 |
| SR125     | 01            | 53.1  | 99.1                    | 80.2 | 21.2 | 110.9 | 51.9 | 172.2 | 113.2 |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 63.3  | 117.5                   |      |      | 100.7 | 33.5 | 162.1 | 94.8  | 223.4 | 156.1 |       |       |       |       |       |       |       |       |
|           | 03            | 81.1  | 148.4                   |      |      |       |      | 144.2 | 63.9  | 205.5 | 125.2 | 236.2 | 155.9 | 266.8 | 186.5 |       |       |       |       |
|           | 04            | 91.3  | 166.9                   |      |      |       |      | 134.1 | 45.5  | 195.4 | 106.8 | 226.1 | 137.5 | 256.7 | 168.1 | 318.0 | 229.4 |       |       |
|           | 05            | 119.2 | 216.2                   |      |      |       |      |       |       | 167.4 | 57.5  | 198.1 | 88.1  | 228.7 | 118.8 | 290.1 | 180.1 | 351.4 | 241.4 |
| SR140     | 01            | 82    | 152                     | 119  | 36   | 160   | 77   | 242   | 159   |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 92    | 172                     |      |      | 149   | 56   | 231   | 138   | 313   | 220   |       |       |       |       |       |       |       |       |
|           | 03            | 117   | 221                     |      |      |       |      | 205   | 86    | 287   | 168   | 328   | 209   | 369   | 250   |       |       |       |       |
|           | 04            | 128   | 240                     |      |      |       |      | 193   | 64    | 275   | 146   | 316   | 187   | 358   | 229   | 440   | 311   |       |       |
|           | 05            | 164   | 308                     |      |      |       |      |       |       | 238   | 72    | 279   | 114   | 320   | 155   | 402   | 237   | 484   | 319   |
| SR160     | 01            | 100   | 152                     | 186  | 126  | 245   | 188  |       |       |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 147   | 225                     |      |      | 198   | 116  | 317   | 234   |       |       |       |       |       |       |       |       |       |       |
|           | 03            | 173   | 264                     |      |      | 170   | 74   | 290   | 193   | 407   | 311   |       |       |       |       |       |       |       |       |
|           | 04            | 200   | 321                     |      |      |       |      | 260   | 136   | 378   | 255   | 437   | 312   |       |       |       |       |       |       |
|           | 05            | 252   | 376                     |      |      |       |      |       |       | 330   | 191   | 388   | 251   | 447   | 310   |       |       |       |       |
|           | 06            | 300   | 473                     |      |      |       |      |       |       |       |       | 335   | 161   | 395   | 220   | 512   | 332   | 627   | 445   |
| SR200     | 01            | 174   | 245                     | 362  | 270  | 472   | 387  |       |       |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 247   | 356                     |      |      | 398   | 273  | 621   | 498   |       |       |       |       |       |       |       |       |       |       |
|           | 03            | 298   | 424                     |      |      | 344   | 192  | 568   | 425   | 789   | 649   |       |       |       |       |       |       |       |       |
|           | 04            | 353   | 531                     |      |      |       |      | 510   | 317   | 731   | 541   | 842   | 651   |       |       |       |       |       |       |
|           | 05            | 421   | 602                     |      |      |       |      |       |       | 655   | 447   | 767   | 562   | 878   | 675   |       |       |       |       |
|           | 06            | 527   | 776                     |      |      |       |      |       |       |       |       | 662   | 396   | 777   | 510   | 994   | 721   | 1209  | 935   |
| SR270     | 01            | 505   | 788                     | 834  | 545  | 1109  | 819  | 1658  | 1368  |       |       |       |       |       |       |       |       |       |       |
|           | 02            | 606   | 946                     | 726  | 379  | 1001  | 654  | 1550  | 1203  |       |       |       |       |       |       |       |       |       |       |
|           | 03            | 707   | 1103                    | 619  | 214  | 893   | 488  | 1442  | 1037  | 1991  | 1586  |       |       |       |       |       |       |       |       |
|           | 04            | 808   | 1261                    | 511  | 48   | 785   | 323  | 1334  | 872   | 1884  | 1421  | 2158  | 1695  |       |       |       |       |       |       |
|           | 05            | 909   | 1418                    |      |      | 678   | 157  | 1227  | 706   | 1776  | 1255  | 2050  | 1530  | 2325  | 1804  |       |       |       |       |
|           | 06            | 1010  | 1576                    |      |      |       |      | 1119  | 540   | 1668  | 1090  | 1943  | 1364  | 2217  | 1639  |       |       |       |       |
|           | 07            | 1111  | 1733                    |      |      |       |      | 1011  | 375   | 1560  | 924   | 1835  | 1198  | 2109  | 1473  | 2659  | 2022  |       |       |
|           | 08            | 1213  | 1891                    |      |      |       |      | 904   | 209   | 1453  | 758   | 1727  | 1033  | 2002  | 1307  | 2551  | 1856  | 3100  | 2405  |