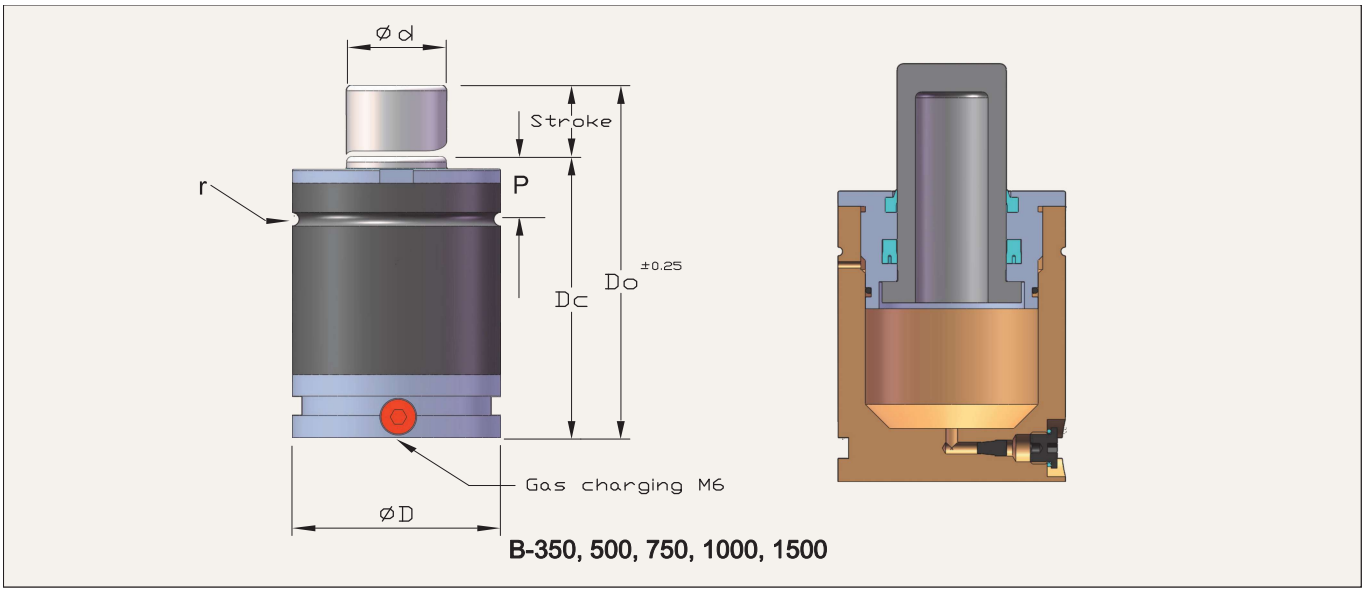





B-350, 500, 750, 1000, 1500

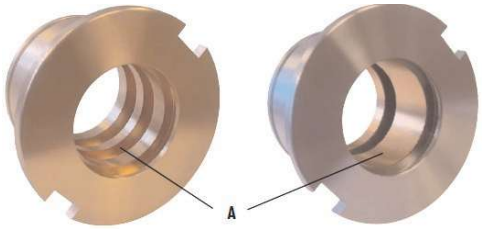
| Important! | |
|---|---|
| Pressure medium: | **Nitrogen Gas ($N_2$)** |
| Operating temperature: | **0 to +80ºC** |
| Force increase by temperature: | **0,33% / ºC** |

## The Extra Compact Line (B series)

Every DESIGN-TITE® Extra Compact gas spring combines the convenience of a self-contained gas spring with increased on-contact force and shorter body height.

## SinterLube® Top Cap

- Solid steel top cap with revolutionary SinterLube® lining.
- Designed with greater bearing area for improved support and guiding (A)
- Threaded construction creates greater structural strength and safety.




SinterLube® is a proprietary alloy material having good sliding lubricity and hardness which we have successfully used for years in guide bushings. We have now adapted this same technology to manufacturing a new line of top caps for our B series of nitrogen gas springs.

| Part Nº | Max. stem speed m/s | Max. charging pressure (bar) | Min. charging pressure (bar) | Order No for spare parts kit |
|---|---|---|---|---|
| **B-350** | 1.0 | 180 | 50 | B-350-SK |
| **B-500** | 1.0 | 150 | 50 | B-500-SK |
| **B-750** | 0.8 | 150 | 50 | B-750-SK |
| **B-1000** | 0.8 | 150 | 50 | B-1000-SK |
| **B-1500** | 1.0 | 150 | 50 | B-1500-SK |

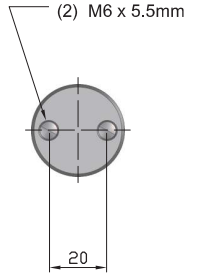
| Part Nº | | | | | | |
|---|---|---|---|---|---|---|
| **B-350** | ✓ | ✓ | DS 32 | DP 32 | — | — |
| **B-500** | ✓ | ✓ | DS /DSC 38 | DP 38 | — | — |
| **B-750** | ✓ | ✓ | DS / DSC 45 | DP 45 | DB 45 | DI 45 |
| **B-1000** | ✓ | ✓ | DS / DSC 50 | DP 50 | DB 50 | DI 50 |
| **B-1500** | ✓ | ✓ | DS / DSC 63 | DP 63 | DB 63 | — |

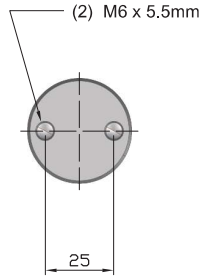
**Flange Details:** See pages 50-56

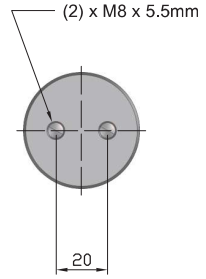


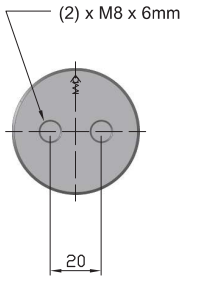
Product improvement through research and development is an ongoing process. All specifications are subject to change without notice.

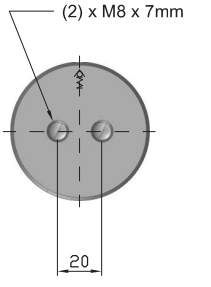
| Part Nº Model x stroke (mm) | Do mm | Dc mm | ØD mm | Ød mm | P mm | r mm | bar | daN | daN | Kg | | Cylinders |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B-350 x 10** | 50 | 40 | | | | | | | 586 | .21 | | |
| **13** | 56 | 43 | | | | | | | 598 | .22 | | |
| **16** | 62 | 46 | | | | | | | 606 | .23 | | |
| **19** | 68 | 49 | | | | | | | 612 | .24 | | |
| **25** | 80 | 55 | | | | | | | 620 | .26 | | |
| **32** | 94 | 62 | | | | | | | 626 | .29 | | |
| **38** | 106 | 68 | 32 | 16 | 12.5 | 1 | 180 | 362 | 629 | .31 | — | |
| **50** | 130 | 80 | | | | | | | 637 | .35 | | |
| **63** | 156 | 93 | | | | | | | 652 | .40 | | |
| **75** | 180 | 105 | | | | | | | 662 | .44 | | |
| **80** | 190 | 110 | | | | | | | 666 | .46 | | |
| **100** | 230 | 130 | | | | | | | 677 | .54 | | |
| **125** | 280 | 155 | | | | | | | 686 | .64 | | |
| **B-500 x 10** | 50 | 40 | | | | | | | 779 | .30 | | |
| **13** | 56 | 43 | | | | | | | 801 | .31 | | |
| **16** | 62 | 46 | | | | | | | 817 | .33 | | |
| **19** | 68 | 49 | | | | | | | 828 | .34 | | |
| **25** | 80 | 55 | | | | | | | 844 | .37 | | |
| **32** | 94 | 62 | | | | | | | 856 | .40 | | |
| **38** | 106 | 68 | 38 | 20 | 12.5 | 1 | 150 | 470 | 863 | .43 | — | |
| **50** | 130 | 80 | | | | | | | 872 | .49 | | |
| **63** | 156 | 93 | | | | | | | 881 | .55 | | |
| **75** | 180 | 105 | | | | | | | 900 | .62 | | |
| **80** | 190 | 110 | | | | | | | 907 | .65 | | |
| **100** | 230 | 130 | | | | | | | 927 | .76 | | |
| **125** | 280 | 155 | | | | | | | 946 | .90 | | |
| **B– 750 x 10** | 52 | 42 | | | | | | | 1286 | .44 | | |
| **13** | 58 | 45 | | | | | | | 1300 | .46 | | |
| **16** | 64 | 48 | | | | | | | 1325 | .48 | | |
| **19** | 70 | 51 | | | | | | | 1344 | .50 | | |
| **25** | 82 | 57 | | | | | | | 1370 | .54 | | |
| **32** | 96 | 64 | | | | | | | 1389 | .58 | | |
| **38** | 108 | 70 | 45 | 25 | 15.5 | 1 | 150 | 736 | 1400 | .62 | — | |
| **50** | 132 | 82 | | | | | | | 1415 | .70 | | |
| **63** | 158 | 95 | | | | | | | 1425 | .78 | | |
| **75** | 182 | 107 | | | | | | | 1452 | .87 | | |
| **80** | 192 | 112 | | | | | | | 1468 | .92 | | |
| **100** | 232 | 132 | | | | | | | 1518 | .108 | | |
| **125** | 282 | 157 | | | | | | | 1563 | 1.29 | | |
| **B-1000 x 13** | 64 | 51 | | | | | | | 1543 | .65 | | |
| **16** | 70 | 54 | | | | | | | 1585 | .67 | | |
| **19** | 76 | 57 | | | | | | | 1617 | .69 | | |
| **25** | 88 | 63 | | | | | | | 1662 | .74 | | |
| **32** | 102 | 70 | | | | | | | 1697 | .80 | | |
| **38** | 114 | 76 | | | | | | | 1718 | .84 | | |
| **50** | 138 | 88 | 50 | 28 | 15.5 | 2 | 150 | 925 | 1747 | .94 | — | |
| **63** | 164 | 101 | | | | | | | 1767 | 1.04 | | |
| **75** | 188 | 113 | | | | | | | 1815 | 1.16 | | |
| **80** | 198 | 118 | | | | | | | 1837 | 1.21 | | |
| **100** | 238 | 138 | | | | | | | 1910 | 1.42 | | |
| **125** | 288 | 163 | | | | | | | 1978 | 1.68 | | |
| **B-1500 x 13** | 70 | 57 | | | | | | | 2411 | 1.14 | | |
| **16** | 76 | 60 | | | | | | | 2493 | 1.17 | | |
| **19** | 82 | 63 | | | | | | | 2558 | 1.21 | | |
| **25** | 94 | 69 | | | | | | | 2655 | 1.29 | | |
| **32** | 108 | 76 | | | | | | | 2733 | 1.38 | | |
| **38** | 120 | 82 | | | | | | | 2783 | 1.45 | | |
| **50** | 144 | 94 | 63 | 36 | 19 | 2 | 150 | 1527 | 2852 | 1.61 | — | |
| **63** | 170 | 107 | | | | | | | 2902 | 1.77 | | |
| **75** | 194 | 119 | | | | | | | 2934 | 1.92 | | |
| **80** | 204 | 124 | | | | | | | 2945 | 1.99 | | |
| **100** | 244 | 144 | | | | | | | 3059 | 2.31 | | |
| **125** | 294 | 169 | | | | | | | 3207 | 2.74 | | |



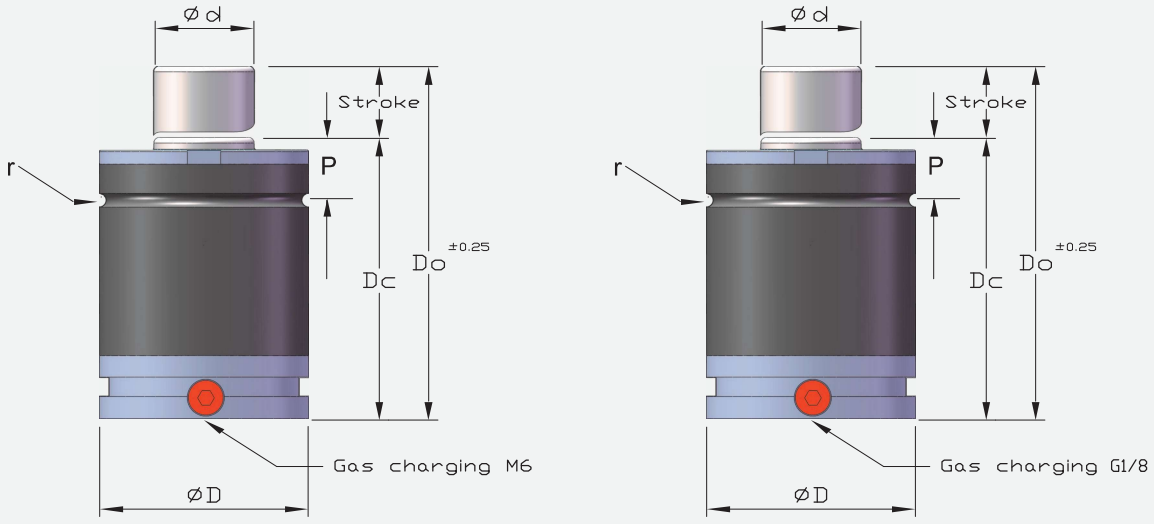








B-2400

B-4200, 6600

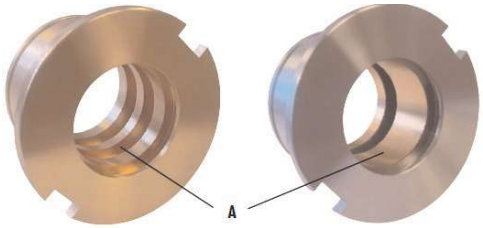
| Important! | |
|---|---|
| Pressure medium: | **Nitrogen Gas ($N_2$)** |
| Operating temperature: | **0 to +80ºC** |
| Force increase by temperature: | **0,33% / ºC** |

## The Extra Compact Line (B series)

Every DESIGN-TITE® Extra Compact gas spring combines the convenience of a self-contained gas spring with increased on-contact force and shorter body height.

## SinterLube® Top Cap

- Solid steel top cap with revolutionary SinterLube® lining.
- Designed with greater bearing area for improved support and guiding (A)
- Threaded construction creates greater structural strength and safety.




SinterLube® is a proprietary alloy material having good sliding lubricity and hardness which we have successfully used for years in guide bushings. We have now adapted this same technology to manufacturing a new line of top caps for our B series of nitrogen gas springs.

| Part Nº | Max. stem speed m/s | Max. charging pressure (bar) | Min. charging pressure (bar) | Order No for spare parts kit |
|---|---|---|---|---|
| **B-2400** | 1.0 | 150 | 50 | B-2400-SK |
| **B-4200** | 1.0 | 150 | 50 | B-4200-SK |
| **B-6600** | 0.6 | 150 | 50 | B-6600-SK |
| | | | | |
| | | | | |

| Part Nº |  |  |  |  |  |  |
|---|---|---|---|---|---|---|
| **B-2400** | ✓ | ✓ | DS / DSC 75 | DP 75 | DB 75 | DI 75 |
| **B-4200** | ✓ | ✓ | DS / DSC 95 | DP 95 | DB 95 | DI 95 |
| **B-6600** | ✓ | ✓ | DS / DSC 120 | DP 120 | DB 120 | DI 120 |
| | | | | | | |
| | | | | | | |

**Flange Details:** See pages 50-56



Product improvement through research and development is an ongoing process. All specifications are subject to change without notice.

| Part Nº Model x stroke (mm) | Do mm | Dc mm | ØD mm | Ød mm | P mm | r mm | bar | daN | daN | Kg | | Cylinder bases |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **B-2400 x 16** | 77 | 61 | | | | | | | 4193 | 1.73 | | |
| **19** | 83 | 64 | | | | | | | 4304 | 1.78 | | |
| **25** | 95 | 70 | | | | | | | 4468 | 1.89 | | |
| **32** | 109 | 77 | | | | | | | 4599 | 2.08 | | |
| **38** | 121 | 83 | | | | | | | 4680 | 2.15 | | |
| **50** | 145 | 95 | 75,2 | 45 | 21 | 2,5 | 150 | 2386 | 4793 | 2.35 | ✓ | |
| **63** | 171 | 108 | | | | | | | 4873 | 2.60 | | |
| **75** | 195 | 120 | | | | | | | 4925 | 2.80 | | |
| **80** | 205 | 125 | | | | | | | 4942 | 2.90 | | |
| **100** | 245 | 145 | | | | | | | 4996 | 3.25 | | |
| **125** | 295 | 170 | | | | | | | 5041 | 3.70 | | |
| **B-4200 x 16** | 90 | 74 | | | | | | | 6714 | 3.20 | | |
| **19** | 96 | 77 | | | | | | | 6943 | 3.30 | | |
| **25** | 108 | 83 | | | | | | | 7308 | 3.45 | | |
| **32** | 122 | 90 | | | | | | | 7623 | 3.65 | | |
| **38** | 134 | 96 | | | | | | | 7830 | 3.85 | | |
| **50** | 158 | 108 | 95 | 60 | 24 | 2,5 | 150 | 4200 | 8136 | 4.15 | ✓ | |
| **63** | 184 | 121 | | | | | | | 8365 | 4.55 | | |
| **75** | 208 | 133 | | | | | | | 8520 | 4.85 | | |
| **80** | 218 | 138 | | | | | | | 8573 | 5.00 | | |
| **100** | 258 | 158 | | | | | | | 8741 | 5.55 | | |
| **125** | 308 | 183 | | | | | | | 8885 | 6.25 | | |
| **B-6600 x 16** | 100 | 84 | | | | | | | 10,442 | 6.05 | | |
| **19** | 106 | 87 | | | | | | | 10,869 | 6.20 | | |
| **25** | 118 | 93 | | | | | | | 11,579 | 6.50 | | |
| **32** | 132 | 100 | | | | | | | 12,226 | 6.90 | | |
| **38** | 144 | 106 | | | | | | | 12,670 | 7.20 | | |
| **50** | 168 | 118 | 120 | 75 | 35.5 | 2,5 | 150 | 6600 | 13,351 | 7.85 | ✓ | |
| **63** | 194 | 131 | | | | | | | 13,884 | 8.55 | | |
| **75** | 218 | 143 | | | | | | | 14,255 | 9.20 | | |
| **80** | 228 | 148 | | | | | | | 14,385 | 9.45 | | |
| **100** | 268 | 168 | | | | | | | 14,803 | 10.50 | | |
| **125** | 318 | 193 | | | | | | | 15,171 | 11.85 | | |