## Calaulaibon Refarence for Selecring Sout Absoblers 1

Quick Reference for Moment of Inertia


## 

Quick Reference for Thrust due to Air Cylinder and Thrusting Energy

| DInternal diameter of the cylinder （mm） | Pushing side <br> Thrusting energy due to cylinder F（N） | Pressure <br> $P$ <br> （MPa） | Thrusting energy E2 $(\mathrm{J})=\mathrm{F} \cdot \mathrm{St}$ |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Soft absorber＇s absorption stroke St |  |  |  |  |  |  |
|  |  |  | 8 （mm） | 10 （mm） | 12 （mm） | 15 （mm） | 16 （mm） | 25 （mm） | 25.4 （mm） |
| $\phi 12$ | 33.9 | 0.3 | 0.271 | 0.339 | 0.407 | 0.509 | 0.542 | 0.848 | 0.861 |
|  | 56.5 | 0.5 | 0.452 | 0.565 | 0.678 | 0.848 | 0.904 | 1.41 | 1.44 |
|  | 79.2 | 0.7 | 0.634 | 0.792 | 0.950 | 1.19 | 1.27 | 1.98 | 2.01 |
| $\phi 16$ | 60.3 | 0.3 | 0.482 | 0.603 | 0.724 | 0.905 | 0.965 | 1.51 | 1.53 |
|  | 101 | 0.5 | 0.808 | 1.01 | 1.21 | 1.52 | 1.62 | 2.53 | 2.57 |
|  | 141 | 0.7 | 1.13 | 1.41 | 1.69 | 2.12 | 2.26 | 3.53 | 3.58 |
| \＄20 | 94.2 | 0.3 | 0.754 | 0.942 | 1.13 | 1.41 | 1.51 | 2.36 | 2.39 |
|  | 157 | 0.5 | 1.26 | 1.57 | 1.88 | 2.36 | 2.51 | 3.93 | 3.99 |
|  | 220 | 0.7 | 1.76 | 2.20 | 2.64 | 3.30 | 3.52 | 5.50 | 5.59 |
| $\phi 25$ | 147 | 0.3 | 1.18 | 1.47 | 1.76 | 2.21 | 2.35 | 3.68 | 3.73 |
|  | 245 | 0.5 | 1.96 | 2.45 | 2.94 | 3.68 | 3.92 | 6.13 | 6.22 |
|  | 344 | 0.7 | 2.75 | 3.44 | 4.13 | 5.16 | 5.50 | 8.60 | 8.74 |
| ¢ 32 | 241 | 0.3 | 1.93 | 2.41 | 2.88 | 3.60 | 3.84 | 6.00 | 6.10 |
|  | 402 | 0.5 | 3.21 | 4.01 | 4.81 | 6.02 | 6.42 | 10.0 | 10.2 |
|  | 563 | 0.7 | 4.49 | 5.61 | 6.73 | 8.42 | 8.98 | 14.0 | 14.2 |
| $\phi 40$ | 377 | 0.3 | 3.02 | 3.78 | 4.54 | 5.67 | 6.05 | 9.45 | 9.60 |
|  | 628 | 0.5 | 5.04 | 6.30 | 7.56 | 9.45 | 10.1 | 15.8 | 16.0 |
|  | 880 | 0.7 | 7.06 | 8.82 | 10.6 | 13.2 | 14.1 | 22.1 | 22.4 |
| $\phi 50$ | 589 | 0.3 | 4.70 | 5.88 | 7.06 | 8.82 | 9.41 | 14.7 | 14.9 |
|  | 982 | 0.5 | 7.84 | 9.80 | 11.8 | 14.7 | 15.7 | 24.7 | 24.9 |
|  | 1374 | 0.7 | 11.0 | 13.7 | 16.4 | 20.6 | 21.9 | 34.3 | 34.8 |
| $\phi 63$ | 935 | 0.3 | 7.51 | 9.39 | 11.3 | 14.1 | 15.0 | 23.5 | 23.9 |
|  | 1560 | 0.5 | 12.6 | 15.7 | 18.8 | 23.6 | 25.1 | 39.3 | 39.9 |
|  | 2180 | 0.7 | 17.5 | 21.9 | 26.3 | 32.9 | 35.0 | 54.8 | 55.6 |
| $\phi 80$ | 1510 | 0.3 | 12.1 | 15.1 | 18.1 | 22.7 | 24.2 | 37.8 | 38.4 |
|  | 2510 | 0.5 | 20.1 | 25.1 | 30.1 | 37.7 | 40.2 | 62.8 | 63.8 |
|  | 3520 | 0.7 | 28.1 | 35.1 | 42.1 | 52.7 | 56.2 | 88.0 | 89.2 |

