

**LÒ XO XOAN TRỤ NÉN VÀ KÉO LOẠI II
CẤP 2 BẰNG THÉP MẶT CẮT TRÒN.**

Thông số cơ bản

Пружины винтовые
цилиндрические сжатия
и растяжения II класса,
разряда 2 из стали
круглого сечения.
Основные параметры
витков

Cylindrical helical
compression (tension)
springs of II class and
of 2 category made of
round steel. Main
parameters of coils.

TCVN

2025 — 77

Khuyến khích
áp dụng

1. Tiêu chuẩn này áp dụng cho lò xo nén và kéo loại II, cấp 2 có lực khi biến dạng lớn nhất (P_3) từ 1,25 đến 1250N.
2. Thông số cơ bản của lò xo phải phù hợp với chỉ dẫn trong bảng.
3. Vật liệu: dây loại II và II A* có đường kính từ 0,2 đến 5 mm.
4. Phân loại lò xo — theo TCVN 2018—77.
5. Phương pháp xác định các kích thước của lò xo — theo TCVN 2019—77.

| Số hiệu của lò xo | Lực lò xo khi biến dạng lớn nhất P_3, N | Đường kính của dây d, mm | Đường kính ngoài của lò xo D, mm | Độ cứng của một vòng $Z_1, N/mm$ | Biến dạng lớn nhất của một vòng f_3, mm |
|-------------------|---|----------------------------|------------------------------------|----------------------------------|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | 1,25 | 0,20 | 2,6 | 1,16 | 1,078 |
| 2 | 1,32 | | 2,5 | 1,32 | 1,000 |
| 3 | 1,40 | | 2,4 | 1,50 | 0,933 |
| 4 | 1,50 | | 2,2 | 2,00 | 0,750 |
| 5 | 1,60 | | 2,1 | 2,33 | 0,637 |
| 6 | | 0,22 | 2,8 | 1,36 | 1,176 |

* Tạm thời theo ГОСТ 9389—75 của Liên Xô hay các tiêu chuẩn tương ứng của các nước khác cho đến khi có tiêu chuẩn Việt Nam tương ứng.

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|----|------|------|------|-------|-------|
| 7 | 1,70 | 0,20 | 2,0 | 2,74 | 0,620 |
| 8 | | 0,22 | 2,6 | 1,74 | 0,977 |
| 9 | 1,80 | 0,20 | 1,9 | 3,26 | 0,552 |
| 10 | | 0,22 | 2,5 | 1,98 | 0,909 |
| 11 | 1,90 | 0,20 | 1,8 | 3,91 | 0,486 |
| 12 | | 0,22 | 2,4 | 2,26 | 0,841 |
| 13 | 2,00 | 0,20 | 1,7 | 4,74 | 0,422 |
| 14 | | 0,22 | 2,2 | 3,02 | 0,662 |
| 15 | 2,12 | 0,20 | 1,6 | 5,83 | 0,364 |
| 16 | | 0,22 | 2,1 | 3,53 | 0,600 |
| 17 | | 0,25 | 3,2 | 1,52 | 1,395 |
| 18 | 2,24 | 0,20 | 1,5 | 7,23 | 0,308 |
| 19 | | 0,22 | 2,0 | 4,15 | 0,540 |
| 20 | | 0,25 | 3,0 | 1,88 | 1,191 |
| 21 | 2,36 | 0,20 | 1,4 | 9,26 | 0,255 |
| 22 | | 0,22 | 1,9 | 4,93 | 0,479 |
| 23 | | 0,25 | 2,8 | 2,36 | 1,000 |
| 24 | 2,50 | 0,20 | 1,3 | 12,02 | 0,208 |
| 25 | | 0,22 | 1,8 | 5,91 | 0,421 |
| 26 | | 0,25 | 2,6 | 3,91 | 0,830 |
| 27 | | 0,28 | 3,6 | 1,68 | 1,488 |
| 28 | 2,65 | 0,20 | 1,2 | 16,00 | 0,166 |
| 29 | | 0,22 | 1,7 | 7,22 | 0,367 |
| 30 | | 0,25 | 2,5 | 3,43 | 0,772 |
| 31 | | 0,28 | 3,4 | 2,02 | 1,312 |
| 32 | 2,80 | 0,20 | 1,15 | 18,66 | 0,150 |
| 33 | | 0,22 | 1,6 | 8,92 | 0,314 |
| 34 | | 0,25 | 2,4 | 3,93 | 0,712 |
| 35 | | 0,28 | 3,2 | 2,47 | 1,131 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|----|------|------|------|-------|-------|
| 36 | 3,00 | 0,20 | 1,1 | 21,95 | 0,137 |
| 37 | | 0,22 | 1,5 | 11,16 | 0,269 |
| 38 | | 0,25 | 2,2 | 5,27 | 0,569 |
| 39 | | 0,28 | 3,0 | 3,06 | 0,980 |
| 40 | | 0,30 | 3,8 | 1,89 | 1,587 |
| 41 | 3,15 | 0,20 | 1,05 | 26,05 | 0,121 |
| 42 | | 0,22 | 1,4 | 14,29 | 0,220 |
| 43 | | 0,25 | 2,1 | 6,17 | 0,510 |
| 44 | | 0,28 | 2,8 | 3,84 | 0,820 |
| 45 | | 0,30 | 3,6 | 2,25 | 1,400 |
| 46 | 3,35 | 0,20 | 1,0 | 31,25 | 0,107 |
| 47 | | 0,22 | 1,3 | 18,58 | 0,180 |
| 48 | | 0,25 | 2,0 | 7,29 | 0,460 |
| 49 | | 0,28 | 2,6 | 4,93 | 0,680 |
| 50 | | 0,30 | 3,4 | 2,72 | 1,232 |
| 51 | 3,55 | 0,22 | 1,2 | 24,89 | 0,143 |
| 52 | | 0,25 | 1,9 | 8,70 | 0,408 |
| 53 | | 0,28 | 2,5 | 5,61 | 0,633 |
| 54 | | 0,30 | 3,2 | 3,32 | 1,069 |
| 55 | 3,75 | 0,22 | 1,15 | 29,06 | 0,129 |
| 56 | | 0,25 | 1,8 | 10,49 | 0,357 |
| 57 | | 0,28 | 2,4 | 6,45 | 0,581 |
| 58 | | 0,30 | 3,0 | 4,12 | 0,910 |
| 59 | 4,00 | 0,22 | 1,1 | 34,38 | 0,116 |
| 60 | | 0,25 | 1,7 | 12,81 | 0,312 |
| 61 | | 0,28 | 2,2 | 8,67 | 0,461 |
| 62 | | 0,30 | 2,8 | 5,19 | 0,771 |
| 63 | | 0,36 | 4,8 | 1,92 | 2,083 |
| 64 | 4,25 | 0,25 | 1,6 | 15,88 | 0,268 |
| 65 | | 0,28 | 2,1 | 10,20 | 0,417 |
| 66 | | 0,30 | 2,6 | 6,65 | 0,639 |
| 67 | | 0,36 | 4,5 | 2,37 | 1,793 |

(liếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|----|------|------|-----|-------|-------|
| 68 | 4,50 | 0,25 | 1,5 | 20,00 | 0,225 |
| 69 | | 0,28 | 2,0 | 12,10 | 0,372 |
| 70 | | 0,30 | 2,5 | 7,62 | 0,590 |
| 71 | | 0,36 | 4,2 | 2,96 | 1,520 |
| 72 | 4,75 | 0,25 | 1,4 | 25,68 | 0,185 |
| 73 | | 0,28 | 1,9 | 14,45 | 0,329 |
| 74 | | 0,30 | 2,4 | 8,75 | 0,543 |
| 75 | | 0,36 | 4,0 | 3,48 | 1,365 |
| 76 | 5,00 | 0,25 | 1,3 | 33,75 | 0,148 |
| 77 | | 0,28 | 1,8 | 17,49 | 0,286 |
| 78 | | 0,30 | 2,2 | 11,83 | 0,23 |
| 79 | | 0,36 | 3,8 | 4,12 | 1,214 |
| 80 | | 0,40 | 5,2 | 2,31 | 2,164 |
| 81 | 5,30 | 0,28 | 1,7 | 21,48 | 0,247 |
| 82 | | 0,30 | 2,1 | 13,89 | 0,372 |
| 83 | | 0,36 | 3,6 | 4,94 | 1,073 |
| 84 | | 0,40 | 5,0 | 2,63 | 2,015 |
| 85 | 5,60 | 0,28 | 1,6 | 26,72 | 0,210 |
| 86 | | 0,30 | 2,0 | 16,46 | 0,340 |
| 87 | | 0,36 | 3,4 | 5,99 | 0,935 |
| 88 | | 0,40 | 4,8 | 3,90 | 1,867 |
| 89 | 6,00 | 0,28 | 1,5 | 33,85 | 0,177 |
| 90 | | 0,30 | 1,9 | 19,81 | 0,303 |
| 91 | | 0,36 | 3,2 | 7,33 | 0,818 |
| 92 | | 0,40 | 4,5 | 3,71 | 1,617 |
| 93 | 6,30 | 0,28 | 1,4 | 43,75 | 0,144 |
| 94 | | 0,30 | 1,8 | 24,00 | 0,262 |
| 95 | | 0,36 | 3,0 | 9,14 | 0,689 |
| 96 | | 0,40 | 4,2 | 4,66 | 1,352 |
| 97 | | 0,45 | 6,0 | 2,40 | 2,625 |

(liếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|------|------|-----|-------|-------|
| 98 | 6,70 | 0,30 | 1,7 | 29,46 | 0,227 |
| 99 | | 0,36 | 2,8 | 11,55 | 0,580 |
| 100 | | 0,40 | 4,0 | 5,19 | 1,220 |
| 101 | | 0,45 | 5,5 | 3,18 | 2,107 |
| 102 | 7,10 | 0,30 | 1,6 | 36,87 | 0,193 |
| 103 | | 0,36 | 2,6 | 14,94 | 0,475 |
| 104 | | 0,40 | 3,8 | 6,51 | 1,091 |
| 105 | | 0,45 | 5,2 | 3,82 | 1,859 |
| 106 | 7,50 | 0,30 | 1,5 | 46,88 | 0,160 |
| 107 | | 0,36 | 2,5 | 17,14 | 0,438 |
| 108 | | 0,40 | 3,6 | 7,81 | 0,960 |
| 109 | | 0,45 | 5,0 | 4,35 | 1,724 |
| 110 | | 0,50 | 6,5 | 2,89 | 2,595 |
| 111 | 8,00 | 0,36 | 2,4 | 19,75 | 0,405 |
| 112 | | 0,40 | 3,4 | 9,48 | 0,844 |
| 113 | | 0,45 | 4,8 | 4,98 | 1,606 |
| 114 | | 0,50 | 6,3 | 3,20 | 2,500 |
| 115 | 8,50 | 0,36 | 2,2 | 26,98 | 0,315 |
| 116 | | 0,40 | 3,2 | 11,66 | 0,729 |
| 117 | | 0,45 | 4,5 | 6,17 | 1,378 |
| 118 | | 0,50 | 6,0 | 3,76 | 2,261 |
| 119 | 9,00 | 0,36 | 2,1 | 31,88 | 0,282 |
| 120 | | 0,40 | 3,0 | 14,57 | 0,618 |
| 121 | | 0,45 | 4,2 | 7,78 | 1,157 |
| 122 | | 0,50 | 5,5 | 5,00 | 1,800 |
| 123 | 9,50 | 0,36 | 2,0 | 38,08 | 0,250 |
| 124 | | 0,40 | 2,8 | 18,52 | 0,513 |
| 125 | | 0,45 | 4,0 | 9,16 | 1,037 |
| 126 | | 0,50 | 5,2 | 6,02 | 1,578 |
| 127 | | 0,56 | 7,5 | 2,94 | 3,231 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|-------|------|------|-------|-------|
| 128 | 10,00 | 0,36 | 1,9 | 45,99 | 0,217 |
| 129 | | 0,40 | 2,6 | 24,04 | 0,416 |
| 130 | | 0,45 | 3,8 | 10,93 | 0,915 |
| 131 | | 0,50 | 5,0 | 6,86 | 1,458 |
| 132 | | 0,56 | 7,0 | 3,68 | 2,717 |
| 133 | 10,60 | 0,36 | 1,8 | 56,25 | 0,188 |
| 134 | | 0,40 | 2,5 | 27,64 | 0,384 |
| 135 | | 0,45 | 3,6 | 13,12 | 0,808 |
| 136 | | 0,50 | 4,8 | 7,86 | 1,349 |
| 137 | | 0,56 | 6,5 | 4,69 | 2,260 |
| 138 | 0,60 | 8,0 | 3,20 | 3,312 | |
| 139 | 11,20 | 0,40 | 2,4 | 32,00 | 0,350 |
| 140 | | 0,45 | 3,4 | 15,97 | 0,701 |
| 141 | | 0,50 | 4,5 | 9,76 | 1,148 |
| 142 | | 0,56 | 6,3 | 5,20 | 2,154 |
| 143 | | 0,60 | 7,5 | 3,95 | 2,839 |
| 144 | 11,80 | 0,40 | 2,2 | 43,90 | 0,269 |
| 145 | | 0,45 | 3,2 | 19,73 | 0,598 |
| 146 | | 0,50 | 4,2 | 12,34 | 0,956 |
| 147 | | 0,56 | 6,0 | 6,12 | 1,928 |
| 148 | | 0,60 | 7,0 | 4,94 | 2,389 |
| 149 | 12,50 | 0,40 | 2,1 | 52,10 | 0,240 |
| 150 | | 0,45 | 3,0 | 24,69 | 0,506 |
| 151 | | 0,50 | 4,0 | 14,58 | 0,857 |
| 152 | | 0,56 | 5,5 | 8,16 | 1,532 |
| 153 | | 0,60 | 6,5 | 6,32 | 1,978 |
| 154 | 13,20 | 0,40 | 2,0 | 62,50 | 0,211 |
| 155 | | 0,45 | 2,8 | 31,64 | 0,417 |
| 156 | | 0,50 | 3,8 | 17,39 | 0,759 |
| 157 | | 0,56 | 5,2 | 9,84 | 1,341 |
| 158 | | 0,60 | 6,3 | 7,00 | 1,886 |
| 159 | 14,00 | 0,45 | 2,6 | 41,26 | 0,339 |
| 160 | | 0,50 | 3,6 | 20,98 | 0,667 |
| 161 | | 0,56 | 5,0 | 11,23 | 1,247 |
| 162 | | 0,60 | 6,0 | 8,23 | 1,701 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|-------|------|------|-------|-------|
| 163 | 15,00 | 0,45 | 2,5 | 47,60 | 0,315 |
| 164 | | 0,50 | 3,4 | 25,63 | 0,585 |
| 165 | | 0,56 | 4,8 | 12,91 | 1,162 |
| 166 | | 0,60 | 5,5 | 11,00 | 1,364 |
| 167 | | 0,70 | 9,0 | 4,20 | 3,571 |
| 168 | 16,00 | 0,45 | 2,4 | 55,30 | 0,289 |
| 169 | | 0,50 | 3,2 | 31,75 | 0,504 |
| 170 | | 0,56 | 4,5 | 16,05 | 0,997 |
| 171 | | 0,60 | 5,2 | 13,30 | 1,203 |
| 172 | | 0,70 | 8,5 | 5,06 | 3,162 |
| 173 | 17,00 | 0,45 | 2,2 | 76,51 | 0,222 |
| 174 | | 0,50 | 3,9 | 40,00 | 0,425 |
| 175 | | 0,56 | 4,2 | 20,39 | 0,834 |
| 176 | | 0,60 | 5,9 | 15,24 | 1,115 |
| 177 | | 0,70 | 8,0 | 6,17 | 2,755 |
| 178 | 18,00 | 0,50 | 2,8 | 51,37 | 0,350 |
| 179 | | 0,56 | 4,0 | 24,19 | 0,744 |
| 180 | | 0,60 | 4,8 | 17,49 | 1,029 |
| 181 | | 0,70 | 7,5 | 7,64 | 2,357 |
| 182 | 19,00 | 0,50 | 2,6 | 67,48 | 0,282 |
| 183 | | 0,56 | 3,8 | 28,91 | 0,657 |
| 184 | | 0,60 | 4,5 | 21,85 | 0,870 |
| 185 | | 0,70 | 7,0 | 9,60 | 1,979 |
| 186 | | 0,80 | 10,5 | 4,49 | 4,232 |
| 187 | 20,00 | 0,50 | 2,5 | 78,12 | 0,256 |
| 188 | | 0,56 | 3,6 | 34,98 | 0,572 |
| 189 | | 0,60 | 4,2 | 27,78 | 0,720 |
| 190 | | 0,70 | 6,5 | 12,33 | 1,622 |
| 191 | | 0,80 | 10,6 | 5,26 | 3,802 |
| 192 | 21,20 | 0,56 | 3,4 | 42,94 | 0,494 |
| 193 | | 0,60 | 4,0 | 32,97 | 0,643 |
| 194 | | 0,70 | 6,3 | 13,67 | 1,651 |
| 195 | | 0,80 | 9,5 | 6,21 | 3,414 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|-------|------|------|-------|-------|
| 196 | 22,40 | 0,56 | 3,2 | 53,15 | 0,419 |
| 197 | | 0,60 | 3,8 | 39,62 | 0,565 |
| 198 | | 0,70 | 6,0 | 16,14 | 1,388 |
| 199 | | 0,80 | 9,0 | 7,43 | 3,015 |
| 200 | 23,60 | 0,56 | 3,0 | 67,70 | 0,349 |
| 201 | | 0,60 | 3,6 | 48,00 | 0,492 |
| 202 | | 0,70 | 5,5 | 21,68 | 1,088 |
| 203 | | 0,80 | 8,5 | 8,98 | 2,628 |
| 204 | | 0,90 | 11,5 | 5,50 | 4,291 |
| 205 | 25,00 | 0,56 | 2,8 | 87,50 | 0,286 |
| 206 | | 0,60 | 3,4 | 59,04 | 0,423 |
| 207 | | 0,70 | 5,2 | 26,35 | 0,949 |
| 208 | | 0,80 | 8,0 | 10,97 | 2,279 |
| 209 | | 0,90 | 11,0 | 6,37 | 3,925 |
| 210 | 26,50 | 0,60 | 3,2 | 73,74 | 0,359 |
| 211 | | 0,70 | 5,0 | 30,24 | 0,876 |
| 212 | | 0,80 | 7,5 | 13,59 | 1,950 |
| 213 | | 0,90 | 10,5 | 7,41 | 3,576 |
| 214 | 28,00 | 0,60 | 3,0 | 93,75 | 0,299 |
| 215 | | 0,70 | 4,8 | 34,79 | 0,805 |
| 216 | | 0,80 | 7,0 | 17,18 | 1,630 |
| 217 | | 0,90 | 10,0 | 8,71 | 3,215 |
| 218 | | 1,00 | 13,0 | 5,79 | 4,836 |
| 219 | 30,00 | 0,70 | 4,5 | 43,76 | 0,686 |
| 220 | | 0,80 | 6,5 | 22,12 | 1,356 |
| 221 | | 0,90 | 9,5 | 10,30 | 2,913 |
| 222 | | 1,00 | 12,0 | 7,51 | 3,995 |
| 223 | 31,50 | 0,70 | 4,2 | 56,00 | 0,562 |
| 224 | | 0,80 | 6,3 | 24,56 | 1,282 |
| 225 | | 0,90 | 9,0 | 12,35 | 2,551 |
| 226 | | 1,00 | 11,5 | 8,64 | 3,646 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|-------|------|------|--------|-------|
| 227 | 33,50 | 0,70 | 4,0 | 66,81 | 0,501 |
| 228 | | 0,80 | 6,0 | 29,13 | 1,150 |
| 229 | | 0,90 | 8,5 | 14,97 | 2,238 |
| 230 | | 1,00 | 11,0 | 10,00 | 3,350 |
| 231 | | 1,10 | 14,0 | 6,82 | 4,912 |
| 232 | 35,50 | 0,70 | 3,8 | 80,59 | 0,440 |
| 233 | | 0,80 | 5,5 | 39,45 | 0,900 |
| 234 | | 0,90 | 8,0 | 18,32 | 1,938 |
| 235 | | 1,00 | 10,5 | 11,66 | 3,044 |
| 236 | | 1,10 | 13,0 | 8,68 | 4,090 |
| 237 | 37,50 | 0,70 | 3,6 | 98,45 | 0,381 |
| 238 | | 0,80 | 5,2 | 48,08 | 0,780 |
| 239 | | 0,90 | 7,5 | 22,82 | 1,643 |
| 240 | | 1,00 | 10,0 | 13,72 | 2,733 |
| 241 | | 1,10 | 12,0 | 11,30 | 3,318 |
| 242 | 1,20 | 16,0 | 6,40 | 5,859 | |
| 243 | 40,00 | 0,80 | 5,0 | 55,29 | 0,723 |
| 244 | | 0,90 | 7,0 | 28,87 | 1,386 |
| 245 | | 1,00 | 9,5 | 16,28 | 2,457 |
| 246 | | 1,10 | 11,5 | 13,03 | 3,070 |
| 247 | | 1,20 | 15,0 | 7,89 | 5,070 |
| 248 | 42,50 | 0,80 | 4,8 | 64,90 | 0,664 |
| 249 | | 0,90 | 6,5 | 37,41 | 1,136 |
| 250 | | 1,00 | 9,0 | 19,53 | 2,176 |
| 251 | | 1,10 | 11,0 | 15,09 | 2,816 |
| 252 | | 1,20 | 14,0 | 9,88 | 4,302 |
| 253 | 45,00 | 0,80 | 4,5 | 80,86 | 0,557 |
| 254 | | 0,90 | 6,3 | 41,67 | 1,080 |
| 255 | | 1,00 | 8,5 | 23,70 | 1,899 |
| 256 | | 1,10 | 10,5 | 17,63 | 2,553 |
| 257 | | 1,20 | 13,0 | 12,63 | 3,563 |
| 258 | 47,50 | 0,80 | 4,2 | 104,20 | 0,456 |
| 259 | | 0,90 | 6,0 | 49,46 | 0,960 |
| 260 | | 1,00 | 8,0 | 29,15 | 1,630 |
| 261 | | 1,10 | 10,0 | 20,77 | 2,287 |
| 262 | | 1,20 | 12,0 | 16,46 | 2,886 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|-------|------|------|--------|-------|
| 263 | 50,00 | 0,80 | 4,0 | 125,60 | 0,400 |
| 264 | | 0,90 | 5,5 | 67,41 | 0,742 |
| 265 | | 1,00 | 7,5 | 36,42 | 1,373 |
| 266 | | 1,10 | 9,5 | 24,67 | 2,027 |
| 267 | | 1,20 | 11,5 | 19,00 | 2,632 |
| 268 | 53,00 | 0,90 | 5,2 | 82,52 | 0,642 |
| 269 | | 1,00 | 7,0 | 46,30 | 1,145 |
| 270 | | 1,10 | 9,0 | 29,72 | 1,783 |
| 271 | | 1,20 | 11,0 | 22,01 | 2,408 |
| 272 | | 1,40 | 18,0 | 8,39 | 6,317 |
| 273 | 56,00 | 0,90 | 5,0 | 95,19 | 0,588 |
| 274 | | 1,00 | 6,5 | 60,11 | 0,932 |
| 275 | | 1,10 | 8,5 | 36,69 | 1,552 |
| 276 | | 1,20 | 10,5 | 25,78 | 2,172 |
| 277 | | 1,40 | 17,0 | 10,13 | 5,528 |
| 278 | 60,00 | 0,90 | 4,8 | 110,90 | 0,511 |
| 279 | | 1,00 | 6,3 | 67,17 | 0,893 |
| 280 | | 1,10 | 8,0 | 44,62 | 1,345 |
| 281 | | 1,20 | 10,0 | 30,43 | 1,972 |
| 282 | | 1,40 | 16,0 | 12,34 | 4,862 |
| 283 | 63,00 | 0,90 | 4,5 | 140,60 | 0,448 |
| 284 | | 1,00 | 6,0 | 80,00 | 0,788 |
| 285 | | 1,10 | 7,5 | 55,85 | 1,128 |
| 286 | | 1,20 | 9,5 | 36,27 | 1,737 |
| 287 | | 1,40 | 15,0 | 15,29 | 4,120 |
| 288 | 1,60 | 21,0 | 8,99 | 7,008 | |
| 289 | 67,00 | 1,00 | 5,5 | 109,70 | 0,611 |
| 290 | | 1,10 | 7,0 | 71,29 | 0,910 |
| 291 | | 1,20 | 9,0 | 43,70 | 1,533 |
| 292 | | 1,40 | 14,0 | 19,20 | 3,490 |
| 293 | | 1,60 | 20,0 | 10,52 | 6,369 |
| 294 | 71,00 | 1,00 | 5,2 | 13,500 | 0,526 |
| 295 | | 1,10 | 6,5 | 92,98 | 0,764 |
| 296 | | 1,20 | 8,5 | 53,30 | 1,332 |
| 297 | | 1,40 | 13,0 | 24,61 | 2,885 |
| 298 | | 1,60 | 19,0 | 12,42 | 5,716 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|------|-------|--------|-------|
| 299 | 75,00 | 1,00 | 5,0 | 156,20 | 0,480 |
| 300 | | 1,10 | 6,3 | 104,00 | 0,721 |
| 301 | | 1,20 | 8,0 | 65,95 | 1,137 |
| 302 | | 1,40 | 12,0 | 32,27 | 2,321 |
| 303 | | 1,60 | 18,0 | 14,86 | 5,047 |
| 304 | 80,00 | 1,10 | 6,0 | 124,80 | 0,641 |
| 305 | | 1,20 | 7,5 | 82,93 | 0,965 |
| 306 | | 1,40 | 11,5 | 37,29 | 2,146 |
| 307 | | 1,60 | 17,0 | 17,94 | 4,458 |
| 308 | | 1,80 | 24,0 | 9,60 | 8,333 |
| 309 | 85,00 | 1,10 | 5,5 | 171,90 | 0,494 |
| 310 | | 1,20 | 7,0 | 106,30 | 0,800 |
| 311 | | 1,40 | 11,0 | 43,37 | 1,960 |
| 312 | | 1,60 | 16,0 | 21,95 | 3,872 |
| 313 | | 1,80 | 22,0 | 12,74 | 6,674 |
| 314 | 90,00 | 1,20 | 6,5 | 139,00 | 0,617 |
| 315 | | 1,40 | 10,5 | 50,98 | 1,715 |
| 316 | | 1,60 | 15,0 | 27,24 | 3,304 |
| 317 | | 1,80 | 21,0 | 14,82 | 6,073 |
| 318 | 95,00 | 1,20 | 6,3 | 156,30 | 0,608 |
| 319 | | 1,40 | 10,0 | 60,40 | 1,573 |
| 320 | | 1,60 | 14,0 | 34,37 | 2,764 |
| 321 | | 1,80 | 20,0 | 17,42 | 5,154 |
| 322 | 100,00 | 1,20 | 6,0 | 187,50 | 0,533 |
| 323 | | 1,40 | 9,5 | 72,29 | 1,383 |
| 324 | | 1,60 | 13,00 | 44,24 | 2,261 |
| 325 | | 1,80 | 19,00 | 20,60 | 4,854 |
| 326 | | 2,00 | 26,00 | 11,57 | 8,643 |
| 327 | 106,00 | 1,40 | 9,0 | 87,51 | 1,211 |
| 328 | | 1,60 | 12,0 | 58,27 | 1,819 |
| 329 | | 1,80 | 18,0 | 24,69 | 4,293 |
| 330 | | 2,00 | 25,0 | 13,15 | 8,061 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|------|------|--------|-------|
| 331 | 112,00 | 1,40 | 8,5 | 107,30 | 1,044 |
| 332 | | 1,60 | 11,5 | 67,45 | 1,660 |
| 333 | | 1,80 | 17,0 | 29,94 | 3,741 |
| 334 | | 2,00 | 24,0 | 15,03 | 7,452 |
| 335 | 118,00 | 1,40 | 8,0 | 134,00 | 0,880 |
| 336 | | 1,60 | 11,0 | 78,91 | 1,496 |
| 337 | | 1,80 | 16,0 | 36,66 | 3,219 |
| 338 | | 2,00 | 22,0 | 20,00 | 5,900 |
| 339 | | 2,20 | 28,0 | 13,63 | 8,657 |
| 340 | 125,00 | 1,40 | 7,5 | 168,90 | 0,740 |
| 341 | | 1,60 | 10,5 | 92,96 | 1,345 |
| 342 | | 1,80 | 15,0 | 45,64 | 2,739 |
| 343 | | 2,00 | 21,0 | 23,33 | 5,358 |
| 344 | | 2,20 | 26,0 | 17,37 | 7,196 |
| 345 | 132,00 | 1,40 | 7,0 | 218,80 | 0,603 |
| 346 | | 1,60 | 10,0 | 111,20 | 1,187 |
| 347 | | 1,80 | 14,0 | 57,75 | 2,286 |
| 348 | | 2,00 | 20,0 | 27,43 | 4,812 |
| 349 | | 2,20 | 25,0 | 19,78 | 6,673 |
| 350 | 140,00 | 1,60 | 9,5 | 132,70 | 1,055 |
| 351 | | 1,80 | 13,0 | 74,73 | 1,874 |
| 352 | | 2,00 | 19,0 | 32,57 | 4,298 |
| 353 | | 2,20 | 24,0 | 22,60 | 6,195 |
| 354 | 150,00 | 1,60 | 9,0 | 162,20 | 0,925 |
| 355 | | 1,80 | 12,0 | 98,93 | 1,516 |
| 356 | | 2,00 | 18,0 | 39,06 | 3,840 |
| 357 | | 2,20 | 22,0 | 30,18 | 4,970 |
| 358 | | 2,50 | 32,0 | 15,22 | 9,855 |
| 359 | 160,00 | 1,60 | 8,5 | 199,80 | 0,801 |
| 360 | | 1,80 | 11,5 | 115,00 | 1,391 |
| 361 | | 2,00 | 17,0 | 47,40 | 3,376 |
| 362 | | 2,20 | 21,0 | 35,32 | 4,530 |
| 363 | | 2,50 | 30,0 | 18,78 | 8,520 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|------|------|--------|--------|
| 364 | 170,00 | 1,60 | 8,0 | 250,00 | 0,680 |
| 365 | | 1,80 | 11,0 | 134,90 | 1,260 |
| 366 | | 2,00 | 16,0 | 58,31 | 2,915 |
| 367 | | 2,20 | 20,0 | 41,54 | 3,852 |
| 368 | | 2,50 | 28,0 | 23,56 | 7,216 |
| 369 | 180,00 | 1,80 | 10,5 | 159,40 | 1,129 |
| 370 | | 2,00 | 15,0 | 72,83 | 2,472 |
| 371 | | 2,20 | 19,0 | 49,41 | 3,643 |
| 372 | | 2,50 | 26,0 | 30,10 | 5,980 |
| 373 | 190,00 | 1,80 | 10,0 | 189,80 | 1,001 |
| 374 | | 2,00 | 14,0 | 92,59 | 2,052 |
| 375 | | 2,20 | 18,0 | 59,44 | 3,196 |
| 376 | | 2,50 | 25,0 | 34,29 | 5,541 |
| 377 | | 2,80 | 36,0 | 16,78 | 11,320 |
| 378 | 200,00 | 1,80 | 9,5 | 229,60 | 0,871 |
| 379 | | 2,00 | 13,0 | 120,20 | 1,664 |
| 380 | | 2,20 | 17,0 | 72,26 | 2,768 |
| 381 | | 2,50 | 24,0 | 39,30 | 5,089 |
| 382 | | 2,80 | 34,0 | 20,24 | 9,882 |
| 383 | | 3,00 | 40,0 | 16,00 | 12,500 |
| 384 | 212,00 | 1,80 | 9,0 | 281,20 | 0,754 |
| 385 | | 2,00 | 12,0 | 160,00 | 1,325 |
| 386 | | 2,20 | 16,0 | 89,14 | 2,378 |
| 387 | | 2,50 | 22,0 | 52,68 | 4,024 |
| 388 | | 2,80 | 32,0 | 24,68 | 8,590 |
| 389 | | 3,00 | 38,0 | 18,88 | 11,230 |
| 390 | 224,00 | 2,00 | 11,5 | 186,60 | 1,200 |
| 391 | | 2,20 | 15,0 | 111,60 | 2,007 |
| 392 | | 2,50 | 21,0 | 61,70 | 3,630 |
| 393 | | 2,80 | 30,0 | 30,54 | 7,354 |
| 394 | | 3,00 | 36,0 | 22,54 | 9,938 |

(tiền triệu)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|------|------|--------|--------|
| 395 | 236,00 | 2,00 | 11,0 | 219,50 | 1,075 |
| 396 | | 2,20 | 14,0 | 142,90 | 1,652 |
| 397 | | 2,50 | 20,0 | 72,89 | 3,238 |
| 398 | | 2,80 | 28,0 | 38,41 | 6,144 |
| 399 | | 3,00 | 34,0 | 27,22 | 8,670 |
| 400 | 250,00 | 2,00 | 10,5 | 260,50 | 0,960 |
| 401 | | 2,20 | 13,0 | 185,90 | 1,345 |
| 402 | | 2,50 | 19,0 | 86,96 | 2,875 |
| 403 | | 2,80 | 26,0 | 49,22 | 5,079 |
| 404 | | 3,00 | 32,0 | 33,18 | 7,535 |
| 405 | 265,00 | 2,00 | 10,0 | 312,50 | 0,848 |
| 406 | | 2,20 | 12,0 | 248,90 | 1,065 |
| 407 | | 2,50 | 18,0 | 104,90 | 2,526 |
| 408 | | 2,80 | 25,0 | 56,18 | 4,717 |
| 409 | | 3,00 | 30,0 | 41,15 | 6,440 |
| 410 | | 3,50 | 45,0 | 20,98 | 12,630 |
| 411 | 286,00 | 2,20 | 11,5 | 290,60 | 0,964 |
| 412 | | 2,50 | 17,0 | 127,60 | 2,194 |
| 413 | | 2,80 | 24,0 | 64,54 | 4,338 |
| 414 | | 3,00 | 28,0 | 51,84 | 5,401 |
| 415 | | 3,50 | 42,0 | 26,30 | 10,650 |
| 416 | 300,00 | 2,20 | 11,0 | 343,80 | 0,873 |
| 417 | | 2,50 | 16,0 | 158,80 | 1,889 |
| 418 | | 2,80 | 22,0 | 86,84 | 3,455 |
| 419 | | 3,00 | 26,0 | 66,57 | 4,506 |
| 420 | | 3,50 | 40,0 | 30,85 | 9,724 |
| 421 | 315,00 | 2,50 | 15,0 | 200,00 | 1,575 |
| 422 | | 2,80 | 21,0 | 102,00 | 3,088 |
| 423 | | 3,00 | 25,0 | 76,07 | 4,141 |
| 424 | | 3,50 | 38,0 | 36,51 | 8,628 |
| 425 | 335,00 | 2,50 | 14,0 | 256,80 | 1,304 |
| 426 | | 2,80 | 20,0 | 121,00 | 2,768 |
| 427 | | 3,00 | 24,0 | 87,46 | 3,830 |
| 428 | | 3,50 | 36,0 | 43,71 | 7,664 |
| 429 | | 4,00 | 52,0 | 23,15 | 14,470 |

(tiếp theo)

| 1 | 2 | 3 | 5 | 5 | 6 |
|-----|--------|------|------|--------|--------|
| 430 | 355,00 | 2,50 | 13,0 | 337,50 | 1,052 |
| 431 | | 2,80 | 19,0 | 144,50 | 2,457 |
| 432 | | 3,00 | 22,0 | 118,30 | 3,000 |
| 433 | | 3,50 | 31,0 | 52,89 | 6,712 |
| 434 | | 4,00 | 50,0 | 26,30 | 13,500 |
| 435 | 375,00 | 2,50 | 12,0 | 455,60 | 0,823 |
| 436 | | 2,80 | 18,0 | 174,90 | 2,144 |
| 437 | | 3,00 | 21,0 | 138,90 | 2,700 |
| 438 | | 3,50 | 32,0 | 64,82 | 5,785 |
| 439 | | 4,00 | 48,0 | 30,05 | 12,480 |
| 440 | 400,00 | 2,80 | 17,0 | 214,90 | 1,861 |
| 441 | | 3,00 | 20,0 | 164,60 | 2,430 |
| 442 | | 3,50 | 30,0 | 80,64 | 4,961 |
| 443 | | 4,00 | 45,0 | 37,14 | 10,770 |
| 444 | | 4,50 | 60,0 | 24,01 | 16,660 |
| 445 | 425,00 | 2,80 | 16,0 | 267,20 | 1,590 |
| 446 | | 3,00 | 19,0 | 198,10 | 2,145 |
| 447 | | 3,50 | 28,0 | 102,00 | 4,167 |
| 448 | | 4,00 | 42,0 | 46,65 | 9,110 |
| 449 | | 4,50 | 55,0 | 31,84 | 13,350 |
| 450 | 450,00 | 2,80 | 15,0 | 338,50 | 1,329 |
| 451 | | 3,00 | 18,0 | 240,00 | 1,875 |
| 452 | | 3,50 | 26,0 | 131,70 | 3,417 |
| 453 | | 4,00 | 40,0 | 54,87 | 8,201 |
| 454 | | 4,50 | 52,0 | 38,26 | 11,760 |
| 455 | 475,00 | 2,80 | 14,0 | 437,50 | 1,086 |
| 456 | | 3,00 | 17,0 | 294,60 | 1,612 |
| 457 | | 3,50 | 25,0 | 151,20 | 3,142 |
| 458 | | 4,00 | 38,0 | 65,14 | 7,292 |
| 459 | | 4,50 | 50,0 | 43,54 | 10,910 |
| 460 | | 5,00 | 65,0 | 28,94 | 16,410 |
| 461 | 500,00 | 3,00 | 16,0 | 368,70 | 1,356 |
| 462 | | 3,50 | 24,0 | 173,90 | 2,875 |
| 463 | | 4,00 | 36,0 | 78,12 | 6,400 |
| 464 | | 4,50 | 48,0 | 49,77 | 10,050 |
| 465 | | 5,00 | 63,0 | 32,03 | 15,610 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|------|-------|--------|--------|
| 466 | 530,00 | 3,00 | 15,0 | 468,80 | 1,130 |
| 467 | | 3,50 | 22,0 | 237,00 | 2,236 |
| 468 | | 4,00 | 34,0 | 94,81 | 5,590 |
| 469 | | 4,50 | 45,0 | 61,73 | 8,586 |
| 470 | | 5,00 | 60,0 | 37,56 | 14,110 |
| 471 | 560,00 | 3,50 | 21,0 | 280,00 | 2,090 |
| 472 | | 4,00 | 32,0 | 116,60 | 4,803 |
| 473 | | 4,50 | 42,0 | 77,76 | 7,202 |
| 474 | | 5,00 | 55,0 | 50,00 | 11,200 |
| 475 | 600,00 | 3,50 | 20,0 | 334,10 | 1,796 |
| 476 | | 4,00 | 30,0 | 145,70 | 4,118 |
| 477 | | 4,50 | 40,0 | 91,65 | 6,547 |
| 478 | | 5,00 | 52,0 | 60,20 | 9,967 |
| 479 | 630,00 | 3,50 | 19,0 | 402,60 | 1,565 |
| 480 | | 4,00 | 28,0 | 185,20 | 3,402 |
| 481 | | 4,50 | 38,0 | 109,30 | 5,764 |
| 482 | | 5,00 | 50,0 | 68,59 | 9,185 |
| 483 | 670,00 | 3,50 | 18,0 | 492,20 | 1,361 |
| 484 | | 4,00 | 26,0 | 240,40 | 2,787 |
| 485 | | 4,50 | 36,0 | 131,20 | 5,107 |
| 486 | | 5,00 | 48,0 | 78,60 | 8,524 |
| 487 | 710,00 | 3,50 | 17,0 | 609,90 | 1,161 |
| 488 | | 4,00 | 25,0 | 276,40 | 2,569 |
| 489 | | 4,50 | 34,0 | 159,70 | 4,445 |
| 490 | | 5,00 | 45,0 | 97,66 | 7,270 |
| 491 | 750,00 | 4,00 | 24,0 | 320,00 | 2,344 |
| 492 | | 4,50 | 32,0 | 197,30 | 3,801 |
| 493 | | 5,00 | 42,0 | 123,40 | 6,978 |
| 494 | 800,00 | 4,00 | 22,0 | 439,06 | 1,822 |
| 495 | | 4,50 | 30,0 | 246,96 | 3,240 |
| 496 | | 5,00 | 40,00 | 145,80 | 5,487 |

(tiếp theo)

| 1 | 2 | 3 | 4 | 5 | 6 |
|-----|---------|------|--------|--------|-------|
| 497 | 850,00 | 4,00 | 21,0 | 521,00 | 1,631 |
| 498 | | 4,50 | 28,0 | 316,40 | 2,686 |
| 499 | | 5,00 | 38,0 | 173,90 | 4,888 |
| 500 | 900,00 | 4,00 | 20,0 | 625,00 | 1,440 |
| 501 | | 4,50 | 26,0 | 412,60 | 2,181 |
| 502 | | 5,00 | 36,0 | 209,80 | 4,290 |
| 503 | 950,00 | 4,50 | 25,0 | 476,00 | 1,996 |
| 504 | | 5,00 | 34,0 | 256,30 | 3,706 |
| 505 | 1000,00 | 4,50 | 24,0 | 553,00 | 1,808 |
| 506 | | 5,00 | 32,0 | 317,50 | 3,150 |
| 507 | 1060,00 | 4,50 | 22,0 | 764,50 | 1,386 |
| 508 | | 5,00 | 30,0 | 400,00 | 2,650 |
| 509 | | | 28,0 | 513,70 | 2,180 |
| 510 | | | 26,0 | 674,80 | 1,749 |
| 511 | 25,0 | | 781,20 | 1,600 | |