

| Diametro Esterno<br>(mm) Toll. (mm) |          | Spessore<br>(mm) Toll. (mm) |          | Diametro Esterno<br>(mm) Toll. (mm) |          | Spessore<br>(mm) Toll. (mm) |          | Diametro Esterno<br>(mm) Toll. (mm) |          | Spessore<br>(mm) Toll. (mm) |          |
|-------------------------------------|----------|-----------------------------|----------|-------------------------------------|----------|-----------------------------|----------|-------------------------------------|----------|-----------------------------|----------|
| 3                                   | 1/2 0.13 | 0.7                         | 1/2 0.03 | 40                                  | 1/2 0.50 | 5.0                         | 1/2 0.30 | 110                                 | 1/2 1.40 | 3.0                         | 1/2 0.25 |
| 4                                   | 1/2 0.13 | 0.8                         | 1/2 0.03 | 42                                  | 1/2 0.50 | 1.6                         | 1/2 0.08 | 110                                 | 1/2 1.80 | 4.0                         | 1/2 0.50 |
| 5                                   | 1/2 0.13 | 0.8                         | 1/2 0.03 | 42                                  | 1/2 0.50 | 2.3                         | 1/2 0.11 | 110                                 | 1/2 1.40 | 5.0                         | 1/2 0.45 |
| 6                                   | 1/2 0.13 | 1.0                         | 1/2 0.04 | 42                                  | 1/2 0.50 | 3.2                         | 1/2 0.18 | 110                                 | 1/2 1.40 | 7.0                         | 1/2 0.60 |
| 6                                   | 1/2 0.13 | 1.5                         | 1/2 0.07 | 44                                  | 1/2 0.50 | 1.6                         | 1/2 0.08 | 115                                 | 1/2 1.40 | 3.0                         | 1/2 0.25 |
| 7                                   | 1/2 0.13 | 1.0                         | 1/2 0.04 | 44                                  | 1/2 0.50 | 2.3                         | 1/2 0.11 | 115                                 | 1/2 1.40 | 5.0                         | 1/2 0.45 |
| 7                                   | 1/2 0.13 | 1.5                         | 1/2 0.07 | 44                                  | 1/2 0.50 | 3.2                         | 1/2 0.18 | 115                                 | 1/2 1.40 | 7.0                         | 1/2 0.60 |
| 8                                   | 1/2 0.13 | 1.0                         | 1/2 0.04 | 45                                  | 1/2 0.60 | 5.0                         | 1/2 0.30 | 120                                 | 1/2 1.40 | 3.0                         | 1/2 0.25 |
| 8                                   | 1/2 0.13 | 1.5                         | 1/2 0.07 | 46                                  | 1/2 0.60 | 1.6                         | 1/2 0.08 | 120                                 | 1/2 1.40 | 5.0                         | 1/2 0.45 |
| 9                                   | 1/2 0.13 | 1.0                         | 1/2 0.04 | 46                                  | 1/2 0.60 | 2.3                         | 1/2 0.11 | 120                                 | 1/2 1.40 | 7.0                         | 1/2 0.60 |
| 9                                   | 1/2 0.13 | 1.5                         | 1/2 0.07 | 46                                  | 1/2 0.60 | 3.2                         | 1/2 0.18 | 120                                 | 1/2 1.40 | 9.0                         | 1/2 0.80 |
| 10                                  | 1/2 0.13 | 1.0                         | 1/2 0.04 | 48                                  | 1/2 0.60 | 1.6                         | 1/2 0.08 | 125                                 | 1/2 1.40 | 5.0                         | 1/2 0.45 |
| 10                                  | 1/2 0.13 | 1.5                         | 1/2 0.07 | 48                                  | 1/2 0.60 | 2.3                         | 1/2 0.11 | 125                                 | 1/2 1.40 | 9.0                         | 1/2 0.80 |
| 10                                  | 1/2 0.13 | 2.2                         | 1/2 0.11 | 48                                  | 1/2 0.60 | 3.2                         | 1/2 0.18 | 130                                 | 1/2 1.50 | 3.0                         | 1/2 0.25 |
| 11                                  | 1/2 0.16 | 1.0                         | 1/2 0.04 | 50                                  | 1/2 0.65 | 1.8                         | 1/2 0.11 | 130                                 | 1/2 1.80 | 4.5                         | 1/2 0.60 |
| 11                                  | 1/2 0.16 | 1.5                         | 1/2 0.07 | 50                                  | 1/2 0.65 | 2.5                         | 1/2 0.14 | 130                                 | 1/2 1.50 | 5.0                         | 1/2 0.45 |
| 11                                  | 1/2 0.16 | 2.2                         | 1/2 0.11 | 50                                  | 1/2 0.65 | 3.5                         | 1/2 0.22 | 130                                 | 1/2 1.50 | 7.0                         | 1/2 0.60 |
| 12                                  | 1/2 0.16 | 1.0                         | 1/2 0.04 | 50                                  | 1/2 0.65 | 5.0                         | 1/2 0.30 | 130                                 | 1/2 1.50 | 9.0                         | 1/2 0.80 |
| 12                                  | 1/2 0.16 | 1.5                         | 1/2 0.07 | 50                                  | 1/2 0.65 | 7.0                         | 1/2 0.45 | 135                                 | 1/2 1.50 | 5.0                         | 1/2 0.45 |
| 12                                  | 1/2 0.16 | 2.2                         | 1/2 0.11 | 50                                  | 1/2 0.65 | 9.0                         | 1/2 0.60 | 135                                 | 1/2 1.50 | 7.0                         | 1/2 0.60 |
| 13                                  | 1/2 0.16 | 1.0                         | 1/2 0.04 | 52                                  | 1/2 0.65 | 1.8                         | 1/2 0.11 | 140                                 | 1/2 1.60 | 3.0                         | 1/2 0.25 |
| 13                                  | 1/2 0.16 | 1.5                         | 1/2 0.07 | 52                                  | 1/2 0.65 | 2.5                         | 1/2 0.14 | 140                                 | 1/2 1.60 | 5.0                         | 1/2 0.45 |
| 13                                  | 1/2 0.16 | 2.2                         | 1/2 0.11 | 52                                  | 1/2 0.65 | 3.5                         | 1/2 0.22 | 140                                 | 1/2 1.60 | 7.0                         | 1/2 0.60 |
| 14                                  | 1/2 0.16 | 1.0                         | 1/2 0.04 | 54                                  | 1/2 0.65 | 1.8                         | 1/2 0.11 | 145                                 | 1/2 1.60 | 5.0                         | 1/2 0.45 |
| 14                                  | 1/2 0.16 | 1.5                         | 1/2 0.07 | 54                                  | 1/2 0.65 | 2.5                         | 1/2 0.14 | 150                                 | 1/2 1.70 | 3.0                         | 1/2 0.25 |
| 14                                  | 1/2 0.16 | 2.2                         | 1/2 0.11 | 54                                  | 1/2 0.65 | 3.5                         | 1/2 0.22 | 150                                 | 1/2 1.70 | 5.0                         | 1/2 0.45 |
| 14                                  | 1/2 0.20 | 2.5                         | 1/2 0.15 | 55                                  | 1/2 0.65 | 5.0                         | 1/2 0.30 | 150                                 | 1/2 1.70 | 7.0                         | 1/2 0.60 |
| 15                                  | 1/2 0.16 | 1.2                         | 1/2 0.05 | 56                                  | 1/2 0.65 | 1.8                         | 1/2 0.11 | 150                                 | 1/2 1.70 | 9.0                         | 1/2 0.80 |
| 15                                  | 1/2 0.16 | 1.8                         | 1/2 0.08 | 56                                  | 1/2 0.65 | 2.5                         | 1/2 0.14 | 155                                 | 1/2 1.75 | 5.0                         | 1/2 0.45 |
| 15                                  | 1/2 0.16 | 2.5                         | 1/2 0.12 | 56                                  | 1/2 0.65 | 3.5                         | 1/2 0.22 | 160                                 | 1/2 1.75 | 5.0                         | 1/2 0.45 |
| 16                                  | 1/2 0.16 | 1.2                         | 1/2 0.05 | 58                                  | 1/2 0.65 | 1.8                         | 1/2 0.11 | 160                                 | 1/2 1.75 | 7.0                         | 1/2 0.70 |
| 16                                  | 1/2 0.16 | 1.8                         | 1/2 0.08 | 58                                  | 1/2 0.65 | 2.5                         | 1/2 0.14 | 165                                 | 1/2 1.75 | 5.0                         | 1/2 0.45 |
| 16                                  | 1/2 0.16 | 2.5                         | 1/2 0.12 | 58                                  | 1/2 0.65 | 3.5                         | 1/2 0.22 | 165                                 | 1/2 1.75 | 7.0                         | 1/2 0.70 |
| 17                                  | 1/2 0.16 | 1.2                         | 1/2 0.05 | 60                                  | 1/2 0.75 | 2.2                         | 1/2 0.16 | 170                                 | 1/2 1.75 | 5.0                         | 1/2 0.45 |
| 17                                  | 1/2 0.16 | 1.8                         | 1/2 0.08 | 60                                  | 1/2 0.75 | 3.2                         | 1/2 0.18 | 170                                 | 1/2 1.75 | 7.0                         | 1/2 0.70 |
| 17                                  | 1/2 0.16 | 2.5                         | 1/2 0.12 | 60                                  | 1/2 0.75 | 4.2                         | 1/2 0.25 | 170                                 | 1/2 1.75 | 9.0                         | 1/2 0.90 |
| 18                                  | 1/2 0.16 | 1.2                         | 1/2 0.05 | 60                                  | 1/2 0.75 | 5.0                         | 1/2 0.30 | 180                                 | 1/2 1.95 | 5.0                         | 1/2 0.45 |
| 18                                  | 1/2 0.16 | 1.8                         | 1/2 0.08 | 60                                  | 1/2 0.75 | 7.0                         | 1/2 0.45 | 180                                 | 1/2 1.95 | 7.0                         | 1/2 0.70 |
| 18                                  | 1/2 0.16 | 2.5                         | 1/2 0.12 | 60                                  | 1/2 0.75 | 9.0                         | 1/2 0.60 | 180                                 | 1/2 1.95 | 9.0                         | 1/2 0.90 |
| 19                                  | 1/2 0.16 | 1.2                         | 1/2 0.05 | 65                                  | 1/2 0.75 | 2.2                         | 1/2 0.16 | 190                                 | 1/2 2.05 | 5.0                         | 1/2 0.45 |
| 19                                  | 1/2 0.16 | 1.8                         | 1/2 0.08 | 65                                  | 1/2 0.75 | 3.2                         | 1/2 0.18 | 190                                 | 1/2 2.05 | 7.0                         | 1/2 0.70 |
| 19                                  | 1/2 0.16 | 2.5                         | 1/2 0.12 | 65                                  | 1/2 0.75 | 4.2                         | 1/2 0.25 | 200                                 | 1/2 2.30 | 5.0                         | 1/2 0.70 |
| 20                                  | 1/2 0.23 | 1.2                         | 1/2 0.05 | 65                                  | 1/2 0.75 | 5.0                         | 1/2 0.30 | 200                                 | 1/2 2.30 | 7.0                         | 1/2 0.80 |
| 20                                  | 1/2 0.23 | 1.8                         | 1/2 0.08 | 70                                  | 1/2 0.85 | 2.2                         | 1/2 0.16 | 200                                 | 1/2 2.30 | 9.0                         | 1/2 1.00 |
| 20                                  | 1/2 0.23 | 2.5                         | 1/2 0.12 | 70                                  | 1/2 0.85 | 3.2                         | 1/2 0.18 | 215                                 | 1/2 2.40 | 5.0                         | 1/2 0.70 |
| 22                                  | 1/2 0.23 | 1.2                         | 1/2 0.05 | 70                                  | 1/2 0.85 | 4.2                         | 1/2 0.25 | 215                                 | 1/2 2.40 | 7.0                         | 1/2 0.80 |
| 22                                  | 1/2 0.23 | 1.8                         | 1/2 0.08 | 70                                  | 1/2 0.85 | 5.0                         | 1/2 0.30 | 215                                 | 1/2 2.40 | 9.0                         | 1/2 1.00 |
| 22                                  | 1/2 0.23 | 2.5                         | 1/2 0.12 | 70                                  | 1/2 0.85 | 7.0                         | 1/2 0.45 | 225                                 | 1/2 2.60 | 7.0                         | 1/2 0.80 |
| 24                                  | 1/2 0.23 | 1.2                         | 1/2 0.05 | 70                                  | 1/2 0.85 | 9.0                         | 1/2 0.60 | 225                                 | 1/2 2.60 | 9.0                         | 1/2 1.10 |
| 24                                  | 1/2 0.23 | 1.8                         | 1/2 0.08 | 75                                  | 1/2 0.85 | 2.2                         | 1/2 0.16 | 240                                 | 1/2 2.80 | 9.0                         | 1/2 1.10 |
| 24                                  | 1/2 0.23 | 2.5                         | 1/2 0.12 | 75                                  | 1/2 0.85 | 3.2                         | 1/2 0.18 | 250                                 | 1/2 2.90 | 5.0                         | 1/2 0.70 |
| 26                                  | 1/2 0.24 | 1.4                         | 1/2 0.05 | 75                                  | 1/2 0.85 | 4.2                         | 1/2 0.25 | 250                                 | 1/2 2.90 | 7.0                         | 1/2 0.90 |
| 26                                  | 1/2 0.24 | 2.0                         | 1/2 0.09 | 75                                  | 1/2 0.85 | 5.0                         | 1/2 0.30 | 250                                 | 1/2 2.90 | 9.0                         | 1/2 1.10 |
| 26                                  | 1/2 0.24 | 2.8                         | 1/2 0.14 | 80                                  | 1/2 1.10 | 2.5                         | 1/2 0.16 | 270                                 | 1/2 2.90 | 5.0                         | 1/2 0.70 |
| 28                                  | 1/2 0.24 | 1.4                         | 1/2 0.05 | 80                                  | 1/2 1.10 | 3.5                         | 1/2 0.22 | 270                                 | 1/2 2.90 | 7.0                         | 1/2 0.90 |

|    |          |     |          |     |          |     |          |     |          |      |          |
|----|----------|-----|----------|-----|----------|-----|----------|-----|----------|------|----------|
| 28 | 1/2 0.24 | 2.0 | 1/2 0.09 | 80  | 1/2 1.10 | 5.0 | 1/2 0.35 | 270 | 1/2 2.90 | 9.0  | 1/2 1.10 |
| 28 | 1/2 0.24 | 2.8 | 1/2 0.14 | 80  | 1/2 1.10 | 9.0 | 1/2 0.65 | 300 | 1/2 3.70 | 5.0  | 1/2 0.70 |
| 30 | 1/2 0.30 | 1.4 | 1/2 0.07 | 85  | 1/2 1.10 | 2.5 | 1/2 0.16 | 300 | 1/2 3.70 | 7.0  | 1/2 1.10 |
| 30 | 1/2 0.30 | 2.0 | 1/2 0.09 | 85  | 1/2 1.10 | 3.5 | 1/2 0.22 | 300 | 1/2 3.70 | 9.0  | 1/2 1.40 |
| 30 | 1/2 0.30 | 2.8 | 1/2 0.14 | 85  | 1/2 1.10 | 5.0 | 1/2 0.35 | 315 | 1/2 3.80 | 7.0  | 1/2 1.10 |
| 32 | 1/2 0.30 | 1.4 | 1/2 0.07 | 90  | 1/2 1.10 | 2.5 | 1/2 0.16 | 315 | 1/2 3.80 | 9.0  | 1/2 1.40 |
| 32 | 1/2 0.30 | 2.0 | 1/2 0.09 | 90  | 1/2 1.10 | 3.5 | 1/2 0.22 | 325 | 1/2 4.00 | 9.0  | 1/2 1.40 |
| 32 | 1/2 0.30 | 2.8 | 1/2 0.14 | 90  | 1/2 1.10 | 5.0 | 1/2 0.35 | 325 | 1/2 4.00 | 10.0 | 1/2 1.40 |
| 33 | 1/2 0.30 | 2.0 | 1/2 0.09 | 90  | 1/2 1.10 | 7.0 | 1/2 0.45 | 350 | 1/2 4.00 | 5.0  | 1/2 0.80 |
| 34 | 1/2 0.30 | 1.4 | 1/2 0.07 | 90  | 1/2 1.10 | 9.0 | 1/2 0.65 | 365 | 1/2 4.50 | 7.0  | 1/2 1.40 |
| 34 | 1/2 0.30 | 2.0 | 1/2 0.09 | 95  | 1/2 1.30 | 2.5 | 1/2 0.16 | 400 | 1/2 5.00 | 6.0  | 1/2 1.50 |
| 34 | 1/2 0.30 | 2.8 | 1/2 0.14 | 95  | 1/2 1.30 | 3.5 | 1/2 0.22 | 415 | 1/2 5.00 | 7.0  | 1/2 1.50 |
| 36 | 1/2 0.35 | 1.4 | 1/2 0.07 | 95  | 1/2 1.30 | 5.0 | 1/2 0.35 | 420 | 1/2 5.00 | 9.5  | 1/2 1.50 |
| 36 | 1/2 0.35 | 2.0 | 1/2 0.09 | 100 | 1/2 1.30 | 2.5 | 1/2 0.16 | 430 | 1/2 5.00 | 6.0  | 1/2 1.00 |
| 36 | 1/2 0.35 | 2.8 | 1/2 0.14 | 100 | 1/2 1.30 | 3.0 | 1/2 0.18 | 440 | 1/2 5.00 | 7.0  | 1/2 1.00 |
| 38 | 1/2 0.35 | 1.4 | 1/2 0.07 | 100 | 1/2 1.30 | 3.5 | 1/2 0.22 | 450 | 1/2 5.00 | 7.0  | 1/2 1.00 |
| 38 | 1/2 0.35 | 2.0 | 1/2 0.09 | 100 | 1/2 1.30 | 5.0 | 1/2 0.35 | 450 | 1/2 5.00 | 8.0  | 1/2 1.00 |
| 38 | 1/2 0.35 | 2.8 | 1/2 0.14 | 100 | 1/2 1.30 | 7.0 | 1/2 0.45 | 460 | 1/2 5.50 | 8.5  | 1/2 1.20 |
| 40 | 1/2 0.50 | 1.6 | 1/2 0.08 | 100 | 1/2 1.30 | 9.0 | 1/2 0.65 | 465 | 1/2 6.00 | 7.0  | 1/2 1.00 |
| 40 | 1/2 0.50 | 2.3 | 1/2 0.11 | 105 | 1/2 1.40 | 3.0 | 1/2 0.18 |     |          |      |          |
| 40 | 1/2 0.50 | 3.2 | 1/2 0.18 | 105 | 1/2 1.40 | 5.0 | 1/2 0.40 |     |          |      |          |

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