

13.4 High Lead Ballscrews

High-lead Ballscrews are essential elements and parts for high-speed machine tools of next century.

Features:

It is important for a High-lead Ballscrew to be with characteristics of high rigidity, low noise and thermal control. PMI 's designs and treatments are taken for following:

High DN Value

The DN value can be 130,000 in normal case. For some special cases, for example in a fixed ends case, the DN value can be as high as 140,000. Please contact our engineers for this special application.

High Speed

PMI 's High-speed Ballscrews provide 100 *m/min* and even higher traverse speed for machine tools for high performance cutting.

High Rigidity

Both the screw and ballnut are surface hardened to a specific hardness and case depth to maintain high rigidity and durability.

Multiple thread starts are available to make more steel balls loaded in the ballnut for higher rigidity and durability.

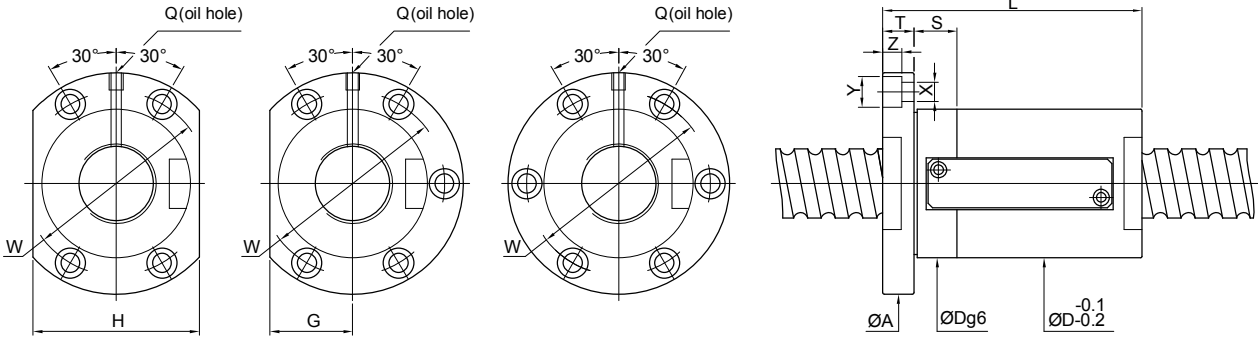
Low Noise

Special design of ball circulation tubes offer smooth ball circulation inside the ballnut. It also makes safe ball fast running into the tubes without damaging the tubes.

Accurate ball circle diameter (BCD) through whole threads for consistent drag torque and low noise.

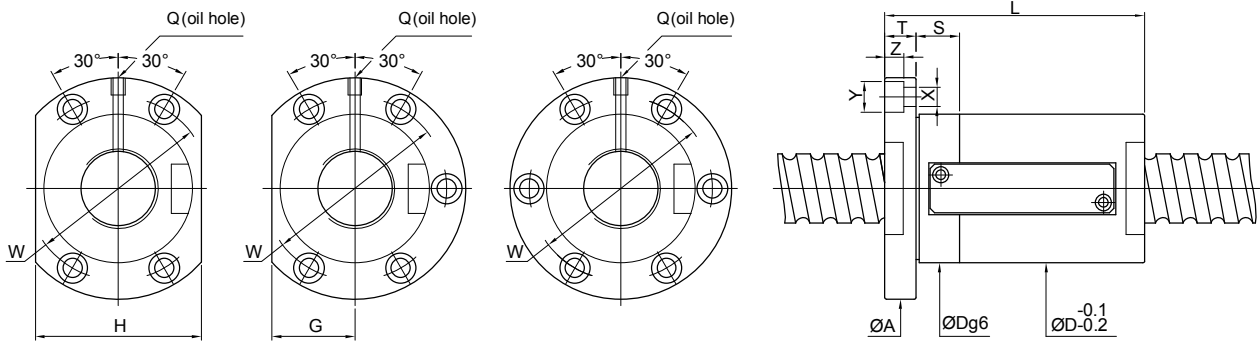


FSWE



Unit: mm

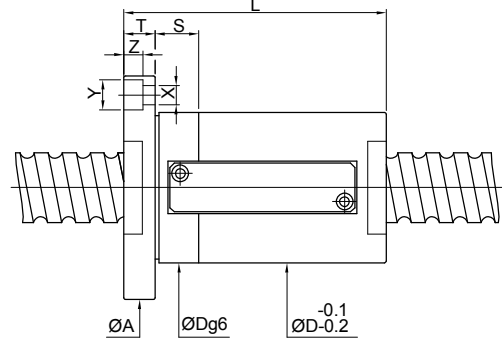
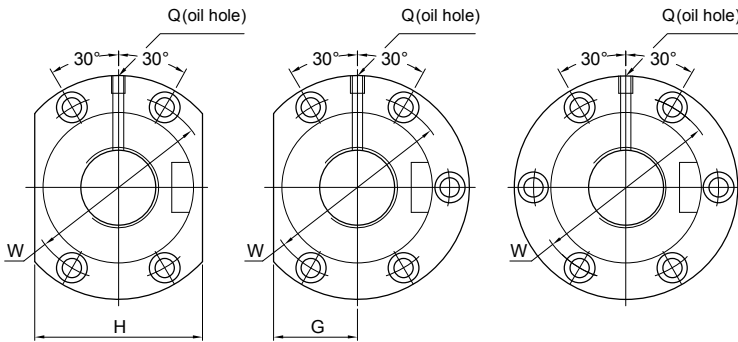
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD(kgf) | | NUT | | FLANGE | | | | | FIT | BOLT | | | OIL HOLE | STIFFNESS | | | |
|------------|------|----------------|--------------------------------------|--|-----------|-------|-----|--------|-----|----|----|----|-----|------|------|------|----------------|----------------|----|----|--------------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | G | H | | S | X | Y | | | Z | Q | kgf/ μ m |
| 12 | 10 | 2.381 | 2.5 \times 1 | 420 | 720 | 30 | 50 | 50 | 10 | 40 | 16 | 32 | 10 | 4.5 | 8 | 4.4 | M6 \times 1P | 20 | | | |
| | | | 3.5 \times 1 | 1210 | 2380 | 46 | 63 | 73.5 | 13 | 59 | 25 | 50 | 10 | 5.5 | 9.5 | 5.5 | M6 \times 1P | 34 | | | |
| | 20 | 3.969 | 1.5 \times 1 | 830 | 1530 | 46 | 63 | 73.5 | 13 | 59 | 25 | 50 | 10 | 5.5 | 9.5 | 5.5 | M6 \times 1P | 24 | | | |
| | | | 2.5 \times 1 | 1210 | 2380 | 46 | 79 | 73 | 13 | 59 | 25 | 50 | 10 | 5.5 | 9.5 | 5.5 | M6 \times 1P | 34 | | | |
| 25 | 16 | 3.969 | 1.5 \times 1 | 920 | 1930 | 54 | 62 | 76 | 15 | 64 | 32 | 64 | 15 | 6.6 | 11 | 6.5 | M6 \times 1P | 28 | | | |
| | | | 2.5 \times 1 | 1340 | 3000 | 54 | 78 | 76 | 15 | 64 | 32 | 64 | 15 | 6.6 | 11 | 6.5 | M6 \times 1P | 40 | | | |
| | 20 | 4.762 | 1.5 \times 1 | 1170 | 2300 | 58 | 74 | 85 | 15 | 71 | 32 | 64 | 15 | 6.6 | 11 | 6.5 | M6 \times 1P | 29 | | | |
| | | | 2.5 \times 1 | 1710 | 3580 | 58 | 94 | 85 | 15 | 71 | 32 | 64 | 15 | 6.6 | 11 | 6.5 | M6 \times 1P | 42 | | | |
| 32 | 16 | 3.969 | 3.5 \times 1 | 2220 | 4860 | 114 | 114 | | | | | | | | | | | 55 | | | |
| | | | 5 \times 1 | 2340 | 6620 | 111 | 111 | | | | | | | | | | | | 77 | | |
| | | | 1.5 \times 1 | 1010 | 2480 | 63 | 63 | | | | | | | | | | | | | 33 | |
| | | | 2.5 \times 1 | 1470 | 3860 | 62 | 79 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 48 | | | |
| | 16 | 6.35 | 3.5 \times 1 | 3.5 \times 1 | 1910 | 5240 | 62 | 95 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 63 | | |
| | | | | 5 \times 1 | 2340 | 6620 | 111 | 111 | | | | | | | | | | | | 77 | |
| | | | | 2.5 \times 1 | 2830 | 6090 | 92 | 92 | | | | | | | | | | | | | 54 |
| | | | | 3.5 \times 1 | 3680 | 8270 | 74 | 108 | 108 | 18 | 90 | 41 | 82 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 69 | | |
| | 20 | 3.969 | 3.5 \times 1 | 5 \times 1 | 4490 | 10450 | 124 | 124 | | | | | | | | | | | 85 | | |
| | | | | 1.5 \times 1 | 1010 | 2480 | 70 | 70 | | | | | | | | | | | | 33 | |
| | | | | 2.5 \times 1 | 1470 | 3860 | 62 | 90 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 48 | | |
| | | | | 3.5 \times 1 | 1910 | 5240 | 62 | 110 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 63 | | |
| 20 | 6.35 | 3.5 \times 1 | 5 \times 1 | 2350 | 6610 | 130 | 130 | | | | | | | | | | | 77 | | | |
| | | | 2.5 \times 1 | 2830 | 6090 | 104 | 104 | | | | | | | | | | | | 54 | | |
| | | | 3.5 \times 1 | 3680 | 8270 | 74 | 124 | 108 | 18 | 90 | 41 | 82 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 69 | | | |
| | | | 5 \times 1 | 4490 | 10450 | 144 | 144 | | | | | | | | | | | | 85 | | |



Unit: mm

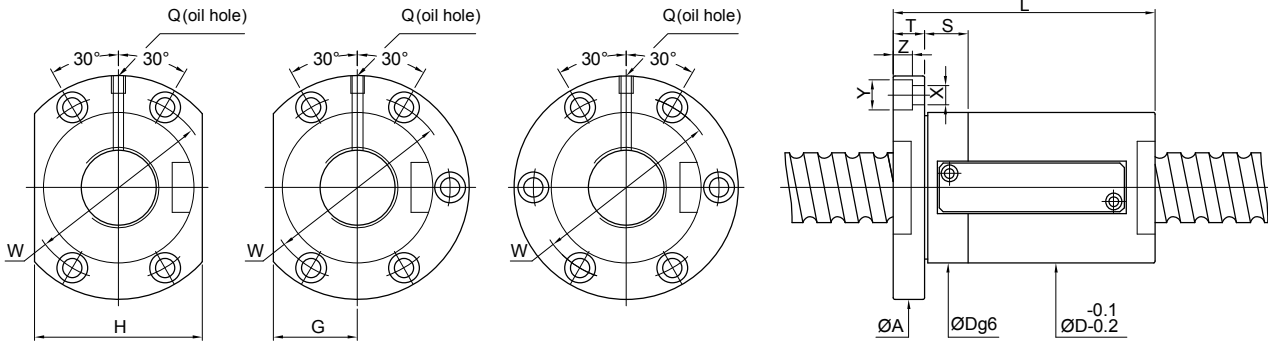
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | | | FIT S | BOLT | | | OIL HOLE Q | STIFFNESS kgf/ μ m | |
|------------|--------------|----------------|--------------------------------------|--|-----------|-------|-----|--------|-----|-----|-----|----|-------|------|------|----------------|----------------|------------------------|-----|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | G | H | | X | Y | Z | | | |
| 36 | 10 | 6.35 | 3.5 \times 1 | 3890 | 9390 | 75 | 84 | 118 | 18 | 98 | 45 | 90 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 76 | |
| | | | 5 \times 1 | 4750 | 11860 | | 94 | | | | | | | | | | | 93 | |
| | 12 | 6.35 | 2.5 \times 1 | 2990 | 6920 | 75 | 85 | 118 | 18 | 98 | 45 | 90 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 58 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 97 | | | | | | | | | | | 76 | |
| | 16 | 6.35 | 2.5 \times 1 | 2990 | 6920 | 75 | 91 | 118 | 18 | 98 | 45 | 90 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 58 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 107 | | | | | | | | | | | 76 | |
| | 20 | 6.35 | 1.5 \times 1 | 2050 | 4450 | 75 | 91 | 118 | 18 | 98 | 45 | 90 | 15 | 11 | 17.5 | 11 | PT1/8 \times | 41 | |
| | | | 2.5 \times 1 | 2990 | 6920 | | 111 | | | | | | | | | | | 58 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 131 | | | | | | | | | | | 76 | |
| | | | 5 \times 1 | 4750 | 11860 | | 151 | | | | | | | | | | | 93 | |
| | 40 | 10 | 6.35 | 3.5 \times 1 | 4130 | 10560 | 86 | 86 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8 \times | 82 |
| | | | | 5 \times 1 | 5050 | 13340 | | 96 | | | | | | | | | | | 101 |
| 12 | | 6.35 | 2.5 \times 1 | 3180 | 7780 | 86 | 86 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8 \times | 63 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 98 | | | | | | | | | | | 82 | |
| 16 | | 6.35 | 2.5 \times 1 | 3180 | 7780 | 86 | 93 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8 \times | 63 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 109 | | | | | | | | | | | 82 | |
| 16 | | 7.144 | 2.5 \times 1 | 3740 | 8790 | 86 | 92 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8 \times | 65 | |
| | | | 3.5 \times 1 | 4870 | 11930 | | 108 | | | | | | | | | | | 84 | |
| | | | 5 \times 1 | 5950 | 15070 | | 124 | | | | | | | | | | | 103 | |
| 20 | | 6.35 | 1.5 \times 1 | 2180 | 5000 | 86 | 84 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8 \times | 43 | |
| | | | 2.5 \times 1 | 3180 | 7780 | | 104 | | | | | | | | | | | 63 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 124 | | | | | | | | | | | 82 | |
| | 5 \times 1 | | 5050 | 13340 | 144 | | 101 | | | | | | | | | | | | |
| 40 | 6.35 | 1.5 \times 1 | 2180 | 5000 | 86 | 130 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8 \times | 43 | | |

FSWE



Unit: mm

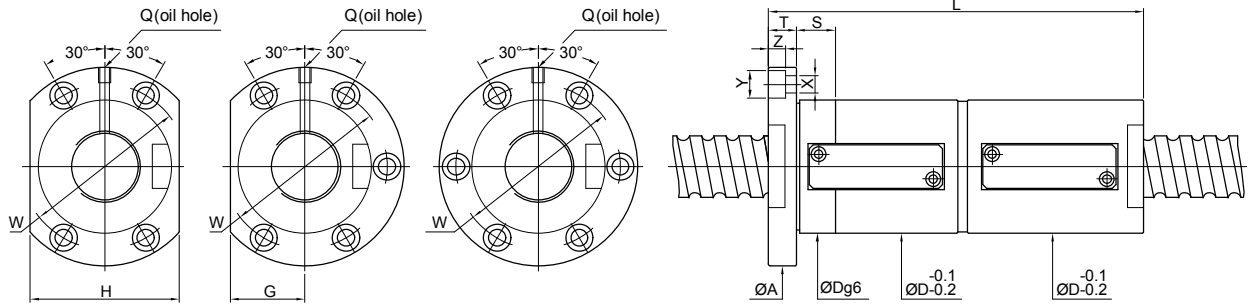
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | | | FIT S | BOLT | | | OIL HOLE Q | STIFFNESS kgf/ μ m |
|----------------|-------|----------------|--------------------------------------|--|-----------|-----|-----|--------|-----|-----|-----|-----|-------|------|------|----------------|----------------|------------------------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | G | H | | X | Y | Z | | |
| 50 | 10 | 6.35 | 3.5 \times 1 | 4560 | 13230 | 93 | 85 | 135 | 18 | 113 | 51 | 102 | 20 | 11 | 17.5 | 11 | PT1/8 \times | 97 |
| | | | 5 \times 1 | 5580 | 16710 | | 95 | | | | | | | | | | | 119 |
| | 12 | 6.35 | 2.5 \times 1 | 3510 | 9750 | 93 | 80 | 135 | 18 | 113 | 51 | 102 | 20 | 11 | 17.5 | 11 | PT1/8 \times | 74 |
| | | | 3.5 \times 1 | 4560 | 13230 | | 92 | | | | | | | | | | | 104 |
| | 12 | 7.144 | 2.5 \times 1 | 4080 | 11260 | 100 | 93 | 146 | 25 | 122 | 55 | 110 | 20 | 14 | 20 | 13 | PT1/8 \times | 75 |
| | | | 3.5 \times 1 | 5300 | 15280 | | 105 | | | | | | | | | | | 117 |
| | 16 | 6.35 | 2.5 \times 1 | 3510 | 9750 | 93 | 94 | 135 | 18 | 113 | 51 | 102 | 20 | 11 | 17.5 | 11 | PT1/8 \times | 74 |
| | | | 3.5 \times 1 | 4560 | 13230 | | 110 | | | | | | | | | | | 126 |
| | 16 | 7.144 | 2.5 \times 1 | 4080 | 11260 | 100 | 100 | 146 | 25 | 122 | 55 | 110 | 20 | 14 | 20 | 13 | PT1/8 \times | 75 |
| | | | 3.5 \times 1 | 5300 | 15280 | | 116 | | | | | | | | | | | 132 |
| | 20 | 7.144 | 1.5 \times 1 | 2790 | 7240 | 100 | 98 | 146 | 25 | 122 | 55 | 110 | 20 | 14 | 20 | 13 | PT1/8 \times | 52 |
| | | | 2.5 \times 1 | 4080 | 11260 | | 118 | | | | | | | | | | | 75 |
| 3.5 \times 1 | | | 5300 | 15280 | 138 | | 99 | | | | | | | | | | | |
| 5 \times 1 | | | 6480 | 19300 | 158 | | 121 | | | | | | | | | | | |
| 20 | 7.938 | 2.5 \times 1 | 4750 | 12090 | 105 | 119 | 152 | 25 | 128 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 78 | |
| | | 3.5 \times 1 | 6180 | 16400 | | 139 | | | | | | | | | | | 101 | |
| 50 | 7.938 | 5 \times 1 | 7550 | 20720 | 105 | 159 | 152 | 25 | 128 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 124 | |
| | | 1.5 \times 1 | 3250 | 7770 | | 157 | | | | | | | | | | | 53 | |



Unit: mm

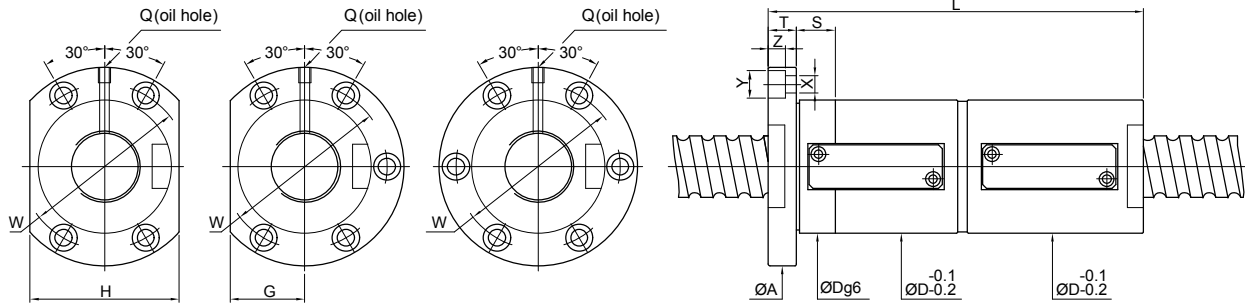
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | | | FIT S | BOLT | | | OIL HOLE Q | STIFFNESS kgf/ μ m |
|------------|-------|----------------|--------------------------------------|--|-----------|-----|-----|--------|-----|-----|-----|----|-------|------|----------------|----------------|------------|------------------------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | G | H | | X | Y | Z | | |
| 63 | 10 | 6.35 | 3.5 \times 1 | 5030 | 17020 | 86 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 115 | |
| | | | 5 \times 1 | 6150 | 21500 | 96 | | | | | | | | | | | 141 | |
| | 12 | 6.35 | 2.5 \times 1 | 3870 | 12540 | 84 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 87 | |
| | | | 3.5 \times 1 | 5030 | 17020 | 96 | | | | | | | | | | | 115 | |
| | 12 | 7.144 | 2.5 \times 1 | 4540 | 14460 | 90 | 161 | 22 | 137 | 61 | 122 | 20 | 14 | 20 | 13 | PT1/8 \times | 89 | |
| | | | 3.5 \times 1 | 5900 | 19620 | 102 | | | | | | | | | | | 117 | |
| | 16 | 7.144 | 2.5 \times 1 | 4540 | 14460 | 97 | 161 | 22 | 137 | 61 | 122 | 20 | 14 | 20 | 13 | PT1/8 \times | 89 | |
| | | | 3.5 \times 1 | 5900 | 19620 | 113 | | | | | | | | | | | 117 | |
| | 16 | 7.938 | 2.5 \times 1 | 5260 | 15430 | 112 | 180 | 28 | 150 | 72 | 144 | 25 | 18 | 26 | 17.5 | PT1/8 \times | 91 | |
| | | | 3.5 \times 1 | 6840 | 20940 | 128 | | | | | | | | | | | 120 | |
| 20 | 6.35 | 2.5 \times 1 | 3870 | 12540 | 104 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 87 | | |
| | | 3.5 \times 1 | 5030 | 17020 | 124 | | | | | | | | | | | 115 | | |
| 20 | 9.525 | 2.5 \times 1 | 8870 | 25870 | 120 | 182 | 28 | 150 | 72 | 144 | 25 | 18 | 26 | 17.5 | PT1/8 \times | 105 | | |
| | | 3.5 \times 1 | 11530 | 35110 | 140 | | | | | | | | | | | 136 | | |
| 10 | 6.35 | 3.5 \times 1 | 5630 | 21660 | 90 | 176 | 22 | 152 | 66 | 132 | 20 | 14 | 20 | 13 | PT1/8 \times | 133 | | |
| | | 5 \times 1 | 6880 | 27360 | 100 | | | | | | | | | | | 164 | | |
| 12 | 7.938 | 3.5 \times 1 | 7670 | 27030 | 101 | 182 | 22 | 158 | 68 | 136 | 20 | 14 | 20 | 13 | PT1/8 \times | 143 | | |
| | | 5 \times 1 | 9380 | 34140 | 113 | | | | | | | | | | | 177 | | |
| 16 | 9.525 | 2.5 \times 1 | 9900 | 33200 | 108 | 204 | 28 | 172 | 77 | 154 | 30 | 18 | 26 | 17.5 | PT1/8 \times | 124 | | |
| | | 3.5 \times 1 | 12990 | 45050 | 124 | | | | | | | | | | | 162 | | |
| 20 | 9.525 | 2.5 \times 1 | 9900 | 33200 | 120 | 204 | 28 | 172 | 77 | 154 | 30 | 18 | 26 | 17.5 | PT1/8 \times | 201 | | |
| | | 3.5 \times 1 | 12990 | 45050 | 140 | | | | | | | | | | | 162 | | |
| 16 | 9.525 | 2.5 \times 1 | 11320 | 41820 | 115 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 139 | | |
| | | 3.5 \times 1 | 14720 | 56750 | 131 | | | | | | | | | | | 182 | | |
| 20 | 9.525 | 2.5 \times 1 | 11320 | 41820 | 128 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 226 | | |
| | | 3.5 \times 1 | 17990 | 71690 | 147 | | | | | | | | | | | 182 | | |
| 100 | 9.525 | 2.5 \times 1 | 11320 | 41820 | 128 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 139 | | |
| | | 3.5 \times 1 | 14720 | 56750 | 148 | | | | | | | | | | | 182 | | |
| 20 | 9.525 | 2.5 \times 1 | 11320 | 41820 | 128 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 139 | | |
| | | 3.5 \times 1 | 17990 | 71690 | 168 | | | | | | | | | | | 182 | | |

FDWE



Unit: mm

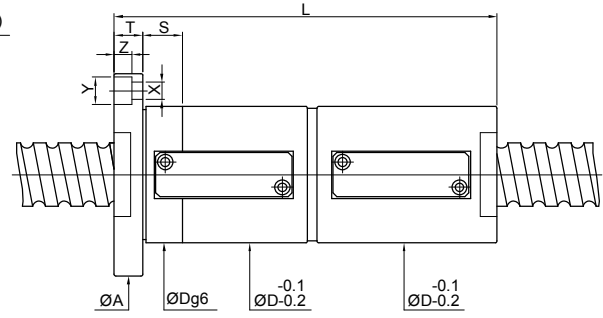
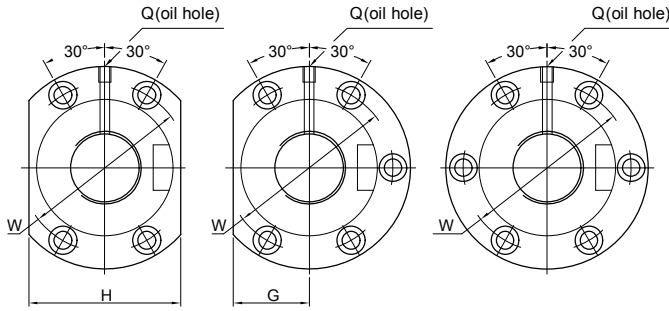
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD(kgf) | | NUT | | FLANGE | | | | | FIT S | BOLT | | | OIL HOLE Q | STIFFNESS kgf/ μ m |
|------------|------|-----------|--------------------------------------|--|-----------|-----|-----|--------|----|----|----|----|-------|------|------|-----|----------------|------------------------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | G | H | | X | Y | Z | | |
| 12 | 10 | 2.381 | 2.5 \times 1 | 420 | 720 | 30 | 102 | 50 | 10 | 40 | 16 | 32 | 10 | 4.5 | 8 | 4.4 | M6 \times 1P | 30 |
| | | | 3.5 \times 1 | 1210 | 2380 | 46 | 113 | 73.5 | 13 | 59 | 25 | 50 | 10 | 5.5 | 9.5 | 5.5 | M6 \times 1P | 51 |
| 20 | 16 | 3.969 | 1.5 \times 1 | 830 | 1530 | 46 | 128 | 73.5 | 13 | 59 | 25 | 50 | 10 | 5.5 | 9.5 | 5.5 | M6 \times 1P | 35 |
| | | | 2.5 \times 1 | 1210 | 2380 | 46 | 160 | 73.5 | 13 | 59 | 25 | 50 | 10 | 5.5 | 9.5 | 5.5 | M6 \times 1P | 51 |
| 20 | 20 | 3.969 | 1.5 \times 1 | 830 | 1530 | 46 | 130 | 73 | 13 | 59 | 25 | 50 | 10 | 5.5 | 9.5 | 5.5 | M6 \times 1P | 35 |
| | | | 2.5 \times 1 | 1210 | 2380 | 46 | 160 | 73 | 13 | 59 | 25 | 50 | 10 | 5.5 | 9.5 | 5.5 | M6 \times 1P | 51 |
| 25 | 16 | 3.969 | 1.5 \times 1 | 920 | 1930 | 54 | 126 | 76 | 15 | 64 | 32 | 64 | 15 | 6.6 | 11 | 6.5 | M6 \times 1P | 41 |
| | | | 2.5 \times 1 | 1340 | 3000 | 54 | 158 | 76 | 15 | 64 | 32 | 64 | 15 | 6.6 | 11 | 6.5 | M6 \times 1P | 61 |
| 25 | 20 | 4.762 | 1.5 \times 1 | 1170 | 2300 | 58 | 154 | 85 | 15 | 71 | 32 | 64 | 15 | 6.6 | 11 | 6.5 | M6 \times 1P | 43 |
| | | | 2.5 \times 1 | 1710 | 3580 | 58 | 194 | 85 | 15 | 71 | 32 | 64 | 15 | 6.6 | 11 | 6.5 | M6 \times 1P | 63 |
| 32 | 16 | 3.969 | 3.5 \times 1 | 2220 | 4860 | 62 | 234 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 83 |
| | | | 5 \times 1 | 2340 | 6620 | 62 | 226 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 120 |
| 32 | 16 | 6.35 | 2.5 \times 1 | 1010 | 2480 | 74 | 173 | 108 | 18 | 90 | 41 | 82 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 49 |
| | | | 3.5 \times 1 | 2830 | 6090 | 74 | 205 | 108 | 18 | 90 | 41 | 82 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 80 |
| 32 | 20 | 3.969 | 5 \times 1 | 4490 | 10450 | 62 | 237 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 131 |
| | | | 1.5 \times 1 | 1010 | 2480 | 62 | 93 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 49 |
| 32 | 20 | 6.35 | 2.5 \times 1 | 1470 | 3860 | 62 | 133 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 73 |
| | | | 3.5 \times 1 | 1910 | 5240 | 62 | 173 | 88 | 15 | 75 | 34 | 68 | 15 | 6.6 | 11 | 6.5 | M8 \times 1P | 96 |
| 32 | 20 | 6.35 | 5 \times 1 | 2350 | 6610 | 74 | 213 | 108 | 18 | 90 | 41 | 82 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 120 |
| | | | 2.5 \times 1 | 2830 | 6090 | 74 | 204 | 108 | 18 | 90 | 41 | 82 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 80 |
| 32 | 20 | 6.35 | 3.5 \times 1 | 3680 | 8270 | 74 | 244 | 108 | 18 | 90 | 41 | 82 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 105 |
| | | | 5 \times 1 | 4490 | 10450 | 74 | 284 | 108 | 18 | 90 | 41 | 82 | 15 | 11 | 17.5 | 11 | M8 \times 1P | 131 |



Unit: mm

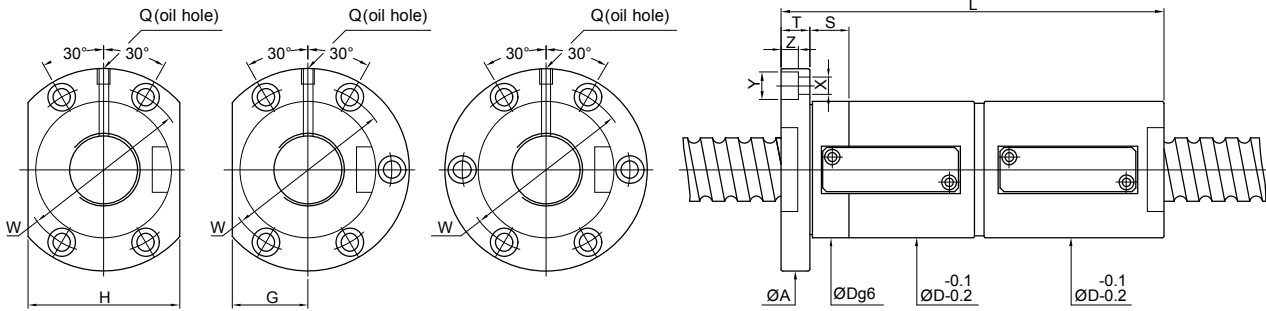
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit row | BASIC RATE LOAD(kgf) | | NUT | | FLANGE | | | | | FIT | BOLT | | | OIL HOLE | STIFFNESS kgf/µm | |
|------------|------|-----------|-----------------------------|-----------------------------------|-----------|-------|-----|--------|-----|-----|-----|----|-----|------|------|--------|----------|------------------|-----|
| O.D. | LEAD | | | Dynamic (10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | G | H | S | X | Y | Z | Q | | |
| 36 | 10 | 6.35 | 3.5x1 | 3890 | 9390 | 75 | 155 | 118 | 18 | 98 | 45 | 90 | 15 | 11 | 17.5 | 11 | M8x1P | 115 | |
| | | | 5x1 | 4750 | 11860 | | 175 | | | | | | | | | | | 143 | |
| | 12 | 6.35 | 2.5x1 | 2990 | 6920 | 75 | 140 | 118 | 18 | 98 | 45 | 90 | 15 | 11 | 17.5 | 11 | M8x1P | 88 | |
| | | | 3.5x1 | 3890 | 9390 | | 164 | | | | | | | | | | | 115 | |
| | 16 | 6.35 | 2.5x1 | 2990 | 6920 | 75 | 171 | 118 | 18 | 98 | 45 | 90 | 15 | 11 | 17.5 | 11 | M8x1P | 88 | |
| | | | 3.5x1 | 3890 | 9390 | | 203 | | | | | | | | | | | 115 | |
| | 20 | 6.35 | 1.5x1 | 2050 | 4450 | 75 | 164 | 118 | 18 | 98 | 45 | 90 | 15 | 11 | 17.5 | 11 | PT1/8x | 59 | |
| | | | 2.5x1 | 2990 | 6920 | | 204 | | | | | | | | | | | 88 | |
| | | | 3.5x1 | 3890 | 9390 | | 244 | | | | | | | | | | | 115 | |
| | | | 5x1 | 4750 | 11860 | | 284 | | | | | | | | | | | 143 | |
| | 40 | 10 | 6.35 | 3.5x1 | 4130 | 10560 | 86 | 155 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8x | 125 |
| | | | | 5x1 | 5050 | 13340 | | 175 | | | | | | | | | | | 155 |
| 12 | | 6.35 | 2.5x1 | 3180 | 7780 | 86 | 141 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8x | 95 | |
| | | | 3.5x1 | 4130 | 10560 | | 165 | | | | | | | | | | | 125 | |
| 16 | | 6.35 | 2.5x1 | 3180 | 7780 | 86 | 173 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8x | 95 | |
| | | | 3.5x1 | 4130 | 10560 | | 205 | | | | | | | | | | | 125 | |
| 16 | | 7.144 | 2.5x1 | 3740 | 8790 | 86 | 173 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8x | 98 | |
| | | | 3.5x1 | 4870 | 11930 | | 205 | | | | | | | | | | | 128 | |
| 20 | | 6.35 | 1.5x1 | 2180 | 5000 | 86 | 164 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8x | 64 | |
| | | | 2.5x1 | 3180 | 7780 | | 204 | | | | | | | | | | | 95 | |
| | | | 3.5x1 | 4130 | 10560 | | 244 | | | | | | | | | | | 125 | |
| | | | 5x1 | 5050 | 13340 | | 284 | | | | | | | | | | | 155 | |
| 40 | 6.35 | 1.5x1 | 2180 | 5000 | 86 | 242 | 128 | 18 | 106 | 49 | 98 | 15 | 11 | 17.5 | 11 | PT1/8x | 64 | | |

FDWE



Unit: mm

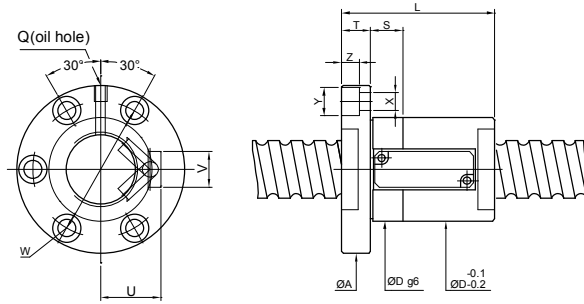
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit row | BASIC RATE LOAD(kgf) | | NUT | | FLANGE | | | | | FIT S | BOLT | | | OIL HOLE Q | STIFFNESS kgf/µm | |
|------------|-------|-----------|--------------------------------|-------------------------------------|-----------|-----|-----|--------|-----|-----|-----|-----|-------|------|------|------|------------|------------------|-----|
| O.D. | LEAD | | | Dynamic (1×10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | G | H | | X | Y | Z | | | |
| 50 | 10 | 6.35 | 3.5×1 | 4560 | 13230 | 93 | 155 | 135 | 18 | 113 | 51 | 102 | 20 | 11 | 17.5 | 11 | PT1/8 | 149 | |
| | | | 5×1 | 5580 | 16710 | | 175 | | | | | | | | | | | 185 | |
| | 12 | 6.35 | 2.5×1 | 3510 | 9750 | 93 | 141 | 165 | 135 | 18 | 113 | 51 | 102 | 20 | 11 | 17.5 | 11 | PT1/8 | 112 |
| | | | 3.5×1 | 4560 | 13230 | | 141 | | | | | | | | | | | | 185 |
| | 12 | 7.144 | 2.5×1 | 4080 | 11260 | 100 | 161 | 185 | 146 | 25 | 122 | 55 | 110 | 20 | 14 | 20 | 13 | PT1/8 | 114 |
| | | | 3.5×1 | 5300 | 15280 | | 161 | | | | | | | | | | | | 187 |
| | 16 | 6.35 | 2.5×1 | 3510 | 9750 | 93 | 174 | 206 | 135 | 18 | 113 | 51 | 102 | 20 | 11 | 17.5 | 11 | PT1/8 | 149 |
| | | | 3.5×1 | 4560 | 13230 | | 174 | | | | | | | | | | | | 185 |
| | 16 | 7.144 | 2.5×1 | 4080 | 11260 | 100 | 180 | 212 | 146 | 25 | 122 | 55 | 110 | 20 | 14 | 20 | 13 | PT1/8 | 114 |
| | | | 3.5×1 | 5300 | 15280 | | 180 | | | | | | | | | | | | 187 |
| | 20 | 7.144 | 1.5×1 | 2790 | 7240 | 100 | 179 | 146 | 25 | 122 | 55 | 110 | 20 | 14 | 20 | 13 | PT1/8 | 77 | |
| | | | 2.5×1 | 4080 | 11260 | | 179 | | | | | | | | | | | 114 | |
| 3.5×1 | | | 5300 | 15280 | 219 | | 151 | | | | | | | | | | | | |
| 5×1 | | | 6480 | 19300 | 259 | | 187 | | | | | | | | | | | | |
| 20 | 7.938 | 2.5×1 | 4750 | 12090 | 105 | 219 | 259 | 152 | 25 | 128 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 | 117 | |
| | | 3.5×1 | 6180 | 16400 | | 219 | | | | | | | | | | | | 154 | |
| 50 | 7.938 | 1.5×1 | 3250 | 7770 | 105 | 299 | 305 | 152 | 25 | 128 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 | 191 | |
| | | 1.5×1 | 3250 | 7770 | | 299 | | | | | | | | | | | | 79 | |



Unit: mm

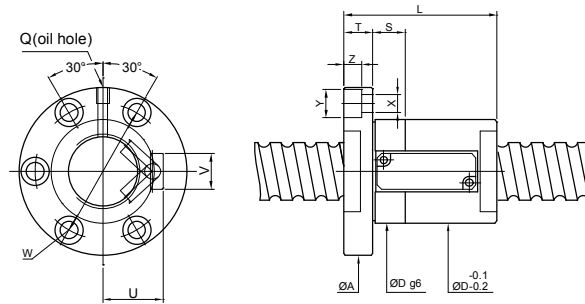
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | | | FIT S | BOLT | | | OIL HOLE Q | STIFFNESS kgf/ μ m |
|------------|-------|----------------|--------------------------------------|--|-----------|-----|-----|--------|-----|-----|-----|-----|-------|------|------|----------------|----------------|------------------------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | G | H | | X | Y | Z | | |
| 63 | 10 | 6.35 | 3.5 \times 1 | 5030 | 17020 | 108 | 155 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 178 |
| | | | 5 \times 1 | 6150 | 21500 | 108 | 175 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 220 |
| | 12 | 6.35 | 2.5 \times 1 | 3870 | 12540 | 108 | 153 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 134 |
| | | | 3.5 \times 1 | 5030 | 17020 | 108 | 177 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 178 |
| | 12 | 7.144 | 5 \times 1 | 6150 | 21500 | 108 | 201 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 220 |
| | | | 2.5 \times 1 | 4540 | 14460 | 115 | 158 | 161 | 22 | 137 | 61 | 122 | 20 | 14 | 20 | 13 | PT1/8 \times | 136 |
| | 12 | 7.144 | 3.5 \times 1 | 5900 | 19620 | 115 | 182 | 161 | 22 | 137 | 61 | 122 | 20 | 14 | 20 | 13 | PT1/8 \times | 180 |
| | | | 5 \times 1 | 7210 | 24780 | 115 | 206 | 161 | 22 | 137 | 61 | 122 | 20 | 14 | 20 | 13 | PT1/8 \times | 224 |
| | 16 | 7.144 | 2.5 \times 1 | 4540 | 14460 | 115 | 177 | 161 | 22 | 137 | 61 | 122 | 20 | 14 | 20 | 13 | PT1/8 \times | 136 |
| | | | 3.5 \times 1 | 5900 | 19620 | 115 | 209 | 161 | 22 | 137 | 61 | 122 | 20 | 14 | 20 | 13 | PT1/8 \times | 180 |
| | 16 | 7.938 | 5 \times 1 | 7210 | 24780 | 115 | 241 | 161 | 22 | 137 | 61 | 122 | 20 | 14 | 20 | 13 | PT1/8 \times | 224 |
| | | | 2.5 \times 1 | 5260 | 15430 | 120 | 207 | 180 | 28 | 150 | 72 | 144 | 25 | 18 | 26 | 17.5 | PT1/8 \times | 139 |
| 16 | 7.938 | 3.5 \times 1 | 6840 | 20940 | 120 | 239 | 180 | 28 | 150 | 72 | 144 | 25 | 18 | 26 | 17.5 | PT1/8 \times | 184 | |
| | | 5 \times 1 | 8360 | 26450 | 120 | 271 | 180 | 28 | 150 | 72 | 144 | 25 | 18 | 26 | 17.5 | PT1/8 \times | 228 | |
| 20 | 6.35 | 2.5 \times 1 | 3870 | 12540 | 108 | 205 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 134 | |
| | | 3.5 \times 1 | 5030 | 17020 | 108 | 245 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 178 | |
| 20 | 6.35 | 5 \times 1 | 6150 | 21500 | 108 | 285 | 154 | 22 | 130 | 58 | 116 | 20 | 14 | 20 | 13 | PT1/8 \times | 220 | |
| | | 2.5 \times 1 | 8870 | 25870 | 122 | 219 | 182 | 28 | 150 | 72 | 144 | 25 | 18 | 26 | 17.5 | PT1/8 \times | 158 | |
| 20 | 9.525 | 3.5 \times 1 | 11530 | 35110 | 122 | 259 | 182 | 28 | 150 | 72 | 144 | 25 | 18 | 26 | 17.5 | PT1/8 \times | 208 | |
| | | 5 \times 1 | 14090 | 44350 | 122 | 299 | 182 | 28 | 150 | 72 | 144 | 25 | 18 | 26 | 17.5 | PT1/8 \times | 258 | |
| 80 | 10 | 6.35 | 3.5 \times 1 | 5630 | 21660 | 130 | 159 | 176 | 22 | 152 | 66 | 132 | 20 | 14 | 20 | 13 | PT1/8 \times | 207 |
| | | | 5 \times 1 | 6880 | 27360 | 130 | 179 | 176 | 22 | 152 | 66 | 132 | 20 | 14 | 20 | 13 | PT1/8 \times | 256 |
| | 12 | 7.938 | 3.5 \times 1 | 7670 | 27030 | 136 | 184 | 182 | 22 | 158 | 68 | 136 | 20 | 14 | 20 | 13 | PT1/8 \times | 222 |
| | | | 5 \times 1 | 9380 | 34140 | 136 | 208 | 182 | 22 | 158 | 68 | 136 | 20 | 14 | 20 | 13 | PT1/8 \times | 275 |
| | 16 | 9.525 | 2.5 \times 1 | 9900 | 33200 | 143 | 188 | 204 | 28 | 172 | 77 | 154 | 30 | 18 | 26 | 17.5 | PT1/8 \times | 189 |
| | | | 3.5 \times 1 | 12990 | 45050 | 143 | 220 | 204 | 28 | 172 | 77 | 154 | 30 | 18 | 26 | 17.5 | PT1/8 \times | 251 |
| 16 | 9.525 | 5 \times 1 | 15880 | 56910 | 143 | 252 | 204 | 28 | 172 | 77 | 154 | 30 | 18 | 26 | 17.5 | PT1/8 \times | 311 | |
| | | 2.5 \times 1 | 9900 | 33200 | 143 | 220 | 204 | 28 | 172 | 77 | 154 | 30 | 18 | 26 | 17.5 | PT1/8 \times | 189 | |
| 20 | 9.525 | 3.5 \times 1 | 12990 | 45050 | 143 | 260 | 204 | 28 | 172 | 77 | 154 | 30 | 18 | 26 | 17.5 | PT1/8 \times | 251 | |
| | | 5 \times 1 | 15880 | 56910 | 143 | 300 | 204 | 28 | 172 | 77 | 154 | 30 | 18 | 26 | 17.5 | PT1/8 \times | 311 | |
| 100 | 16 | 9.525 | 2.5 \times 1 | 11320 | 41820 | 170 | 211 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 213 |
| | | | 3.5 \times 1 | 14720 | 56750 | 170 | 243 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 283 |
| | 20 | 9.525 | 5 \times 1 | 17990 | 71690 | 170 | 259 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 351 |
| | | | 2.5 \times 1 | 11320 | 41820 | 170 | 228 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 213 |
| 20 | 9.525 | 3.5 \times 1 | 14720 | 56750 | 170 | 268 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 283 | |
| | | 5 \times 1 | 17990 | 71690 | 170 | 308 | 243 | 32 | 205 | 91 | 182 | 30 | 22 | 32 | 21.5 | PT1/8 \times | 351 | |

FSVE



Unit: mm

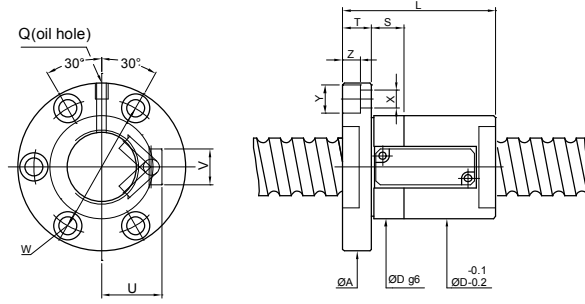
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | FIT S | BOLT | | | RETURN TUBE | | OIL HOLE Q | STIFFNESS $kgf/\mu m$ |
|------------|------|-----------|--------------------------------------|--|-----------|-----|-----|--------|----|----|-------|------|------|-----|-------------|----|----------------|-----------------------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | | X | Y | Z | U | V | | |
| 12 | 10 | 2.381 | 2.5 \times 1 | 420 | 720 | 25 | 50 | 48 | 10 | 36 | 10 | 4.5 | 8 | 4.4 | 14 | 12 | M6 \times 1P | 20 |
| | | | 3.5 \times 1 | 1580 | 3230 | 38 | 73 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 34 |
| 20 | 16 | 3.969 | 1.5 \times 1 | 830 | 1530 | 38 | 63 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 24 |
| | | | 2.5 \times 1 | 1210 | 2380 | 38 | 79 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 34 |
| 25 | 20 | 3.969 | 1.5 \times 1 | 830 | 1530 | 38 | 70 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 24 |
| | | | 2.5 \times 1 | 1210 | 2380 | 38 | 79 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 34 |
| 25 | 16 | 3.969 | 1.5 \times 1 | 920 | 1930 | 42 | 62 | 68 | 15 | 55 | 15 | 6.6 | 11 | 6.6 | 26 | 14 | M6 \times 1P | 28 |
| | | | 2.5 \times 1 | 1340 | 3000 | 42 | 78 | 68 | 15 | 55 | 15 | 6.6 | 11 | 6.6 | 26 | 14 | M6 \times 1P | 40 |
| 25 | 20 | 4.762 | 1.5 \times 1 | 1170 | 2300 | 44 | 74 | 72 | 15 | 59 | 15 | 6.6 | 11 | 6.5 | 27 | 16 | M6 \times 1P | 29 |
| | | | 2.5 \times 1 | 1710 | 3580 | 44 | 94 | 72 | 15 | 59 | 15 | 6.6 | 11 | 6.5 | 27 | 16 | M6 \times 1P | 42 |
| 32 | 16 | 3.969 | 3.5 \times 1 | 2220 | 4860 | 44 | 114 | | | | | | | | | | | 55 |
| | | | 5 \times 1 | 2340 | 6610 | 49 | 111 | 78 | 15 | 63 | 15 | 6.6 | 11 | 6.6 | 29 | 15 | M8 \times 1P | 33 |
| 32 | 16 | 6.35 | 2.5 \times 1 | 1010 | 2480 | 57 | 92 | | | | | | | | | | | 33 |
| | | | 3.5 \times 1 | 1470 | 3860 | 57 | 108 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 48 |
| 32 | 20 | 3.969 | 5 \times 1 | 1910 | 5240 | 57 | 124 | | | | | | | | | | | 63 |
| | | | 5 \times 1 | 2350 | 6610 | 57 | 124 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 63 |
| 32 | 20 | 6.35 | 2.5 \times 1 | 1010 | 2480 | 57 | 104 | | | | | | | | | | | 33 |
| | | | 3.5 \times 1 | 1470 | 3860 | 57 | 124 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 48 |
| 32 | 20 | 6.35 | 5 \times 1 | 1910 | 5240 | 57 | 124 | | | | | | | | | | | 63 |
| | | | 5 \times 1 | 2350 | 6610 | 57 | 124 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 63 |
| 32 | 20 | 6.35 | 2.5 \times 1 | 2830 | 8200 | 57 | 104 | | | | | | | | | | | 54 |
| | | | 3.5 \times 1 | 3680 | 11120 | 57 | 124 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 69 |
| 32 | 20 | 6.35 | 5 \times 1 | 4490 | 14050 | 57 | 144 | | | | | | | | | | | 85 |
| | | | 5 \times 1 | 4490 | 14050 | 57 | 144 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 85 |



Unit: mm

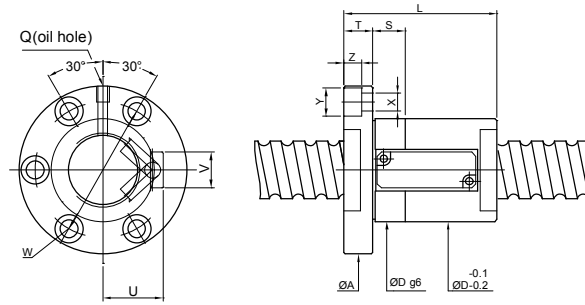
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD(kgf) | | NUT | | FLANGE | | | FIT | BOLT | | | RETURN TUBE | | OIL HOLE | STIFFNESS | |
|------------|------|----------------|--------------------------------------|--|-----------|-------|-----|--------|-----|----|-----|------|------|------|-------------|----------------|----------------|----------------|-----|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | | S | X | Y | Z | U | | | V |
| 36 | 10 | 6.35 | 3.5 \times 1 | 3890 | 9390 | 60 | 84 | 100 | 18 | 80 | 20 | 11 | 17.5 | 11 | 36 | 22 | M8 \times 1P | 76 | |
| | | | 5 \times 1 | 4750 | 11860 | | 94 | | | | | | | | | | | 93 | |
| | 12 | 6.35 | 2.5 \times 1 | 2990 | 6920 | 60 | 85 | 100 | 18 | 80 | 20 | 11 | 17.5 | 11 | 36 | 22 | M8 \times 1P | 58 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 97 | | | | | | | | | | | 76 | |
| | 16 | 6.35 | 2.5 \times 1 | 2990 | 6920 | 60 | 91 | 100 | 18 | 80 | 20 | 11 | 17.5 | 11 | 36 | 22 | M8 \times 1P | 58 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 107 | | | | | | | | | | | 76 | |
| | 20 | 6.35 | 1.5 \times 1 | 2050 | 4450 | 60 | 91 | 100 | 18 | 80 | 20 | 11 | 17.5 | 11 | 36 | 22 | M8 \times 1P | 41 | |
| | | | 2.5 \times 1 | 2990 | 6920 | | 111 | | | | | | | | | | | 58 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 131 | | | | | | | | | | | 76 | |
| | | | 5 \times 1 | 4750 | 11860 | | 151 | | | | | | | | | | | 93 | |
| | 40 | 10 | 6.35 | 3.5 \times 1 | 4130 | 10560 | 64 | 84 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 82 |
| | | | | 5 \times 1 | 5050 | 13340 | | 96 | | | | | | | | | | | 101 |
| 12 | | 6.35 | 2.5 \times 1 | 3180 | 7780 | 64 | 86 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 63 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 98 | | | | | | | | | | | 82 | |
| 16 | | 6.35 | 2.5 \times 1 | 3180 | 7780 | 64 | 93 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 63 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 109 | | | | | | | | | | | 82 | |
| 16 | | 7.144 | 2.5 \times 1 | 3740 | 8790 | 64 | 92 | 104 | 18 | 84 | 15 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 65 | |
| | | | 3.5 \times 1 | 4870 | 11930 | | 108 | | | | | | | | | | | 84 | |
| 20 | | 6.35 | 1.5 \times 1 | 2180 | 5000 | 64 | 84 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 43 | |
| | | | 2.5 \times 1 | 3180 | 7780 | | 104 | | | | | | | | | | | 63 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 124 | | | | | | | | | | | 82 | |
| | | | 5 \times 1 | 5050 | 13340 | | 144 | | | | | | | | | | | 101 | |
| 40 | 6.35 | 1.5 \times 1 | 2180 | 5000 | 64 | 130 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 43 | | |

FSVE



Unit: mm

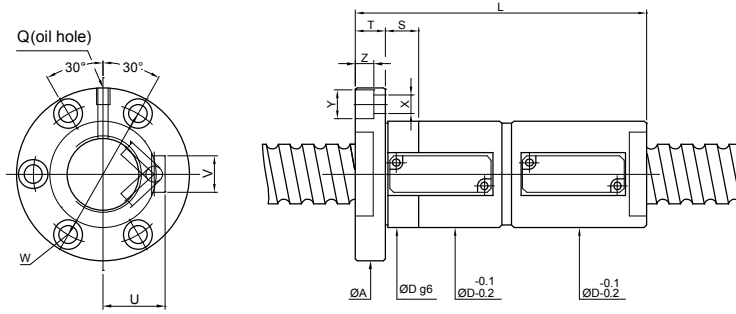
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | FIT | | | | RETURN TUBE | | OIL HOLE | STIFFNESS kgf/ μ m |
|----------------|-------|----------------|--------------------------------------|--|-----------|-----|-----|--------|----|----|-----|----|------|----|-------------|----------------|----------------|------------------------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | S | X | Y | Z | U | V | Q | |
| | | | | | | | | | | | | | | | | | | |
| 50 | 10 | 6.35 | 3.5 \times 1 | 4560 | 13230 | 73 | 85 | 118 | 18 | 96 | 20 | 11 | 17.5 | 11 | 43 | 22 | PT1/8 \times | 97 |
| | | | 5 \times 1 | 5580 | 16710 | | 95 | | | | | | | | | | | 119 |
| | 12 | 6.35 | 2.5 \times 1 | 3510 | 9750 | 73 | 82 | 118 | 18 | 96 | 20 | 11 | 17.5 | 11 | 43 | 22 | PT1/8 \times | 74 |
| | | | 3.5 \times 1 | 4560 | 13230 | | 94 | | | | | | | | | | | 97 |
| | 12 | 7.144 | 2.5 \times 1 | 4080 | 11260 | 75 | 93 | 122 | 20 | 98 | 15 | 14 | 20 | 13 | 44 | 24 | PT1/8 \times | 75 |
| | | | 3.5 \times 1 | 5300 | 15280 | | 105 | | | | | | | | | | | 99 |
| | 16 | 6.35 | 2.5 \times 1 | 3510 | 9750 | 73 | 94 | 118 | 18 | 96 | 20 | 11 | 17.5 | 11 | 43 | 22 | PT1/8 \times | 74 |
| | | | 3.5 \times 1 | 4560 | 13230 | | 110 | | | | | | | | | | | 97 |
| | 16 | 7.144 | 2.5 \times 1 | 4080 | 11260 | 75 | 100 | 122 | 20 | 98 | 15 | 14 | 20 | 13 | 44 | 24 | PT1/8 \times | 75 |
| | | | 3.5 \times 1 | 5300 | 15280 | | 116 | | | | | | | | | | | 99 |
| | 20 | 7.144 | 1.5 \times 1 | 2790 | 7240 | 75 | 98 | 122 | 20 | 98 | 15 | 14 | 20 | 13 | 44 | 20 | PT1/8 \times | 52 |
| | | | 2.5 \times 1 | 4080 | 11260 | | 118 | | | | | | | | | | | 75 |
| 3.5 \times 1 | | | 5300 | 15280 | 138 | | 99 | | | | | | | | | | | |
| 20 | 7.938 | 2.5 \times 1 | 4750 | 12090 | 76 | 119 | 123 | 25 | 99 | 20 | 14 | 20 | 13 | 46 | 25 | PT1/8 \times | 78 | |
| | | 3.5 \times 1 | 6180 | 16400 | | 139 | | | | | | | | | | | 101 | |
| 50 | 7.938 | 2.5 \times 1 | 4750 | 12090 | 76 | 119 | 123 | 25 | 99 | 20 | 14 | 20 | 13 | 46 | 25 | PT1/8 \times | 78 | |
| | | 3.5 \times 1 | 7550 | 20720 | | 159 | | | | | | | | | | | 124 | |
| 50 | 7.938 | 1.5 \times 1 | 3250 | 7770 | 76 | 157 | 123 | 25 | 99 | 20 | 14 | 20 | 13 | 46 | 25 | PT1/8 \times | 53 | |



Unit: mm

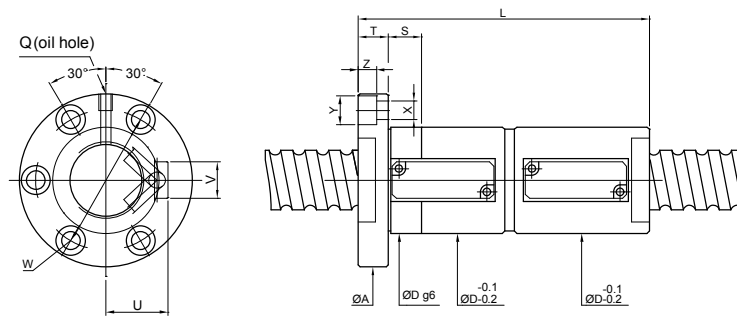
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | FIT S | BOLT | | | RETURN TUBE | | OIL HOLE Q | STIFFNESS kgf/ μ m |
|--------------|-------|----------------|--|--|--------------|-----|-----|--------|-----|-----|-------|------|------|------|-------------|----------------|----------------|---------------------------|
| O.D. | LEAD | | | Dynamic (1×10^6 REV.) Ca | Static Co | Dg6 | L | A | T | W | | X | Y | Z | U | V | | |
| | | | | | | | | | | | | | | | | | | |
| 63 | 10 | 6.35 | 3.5 \times 1 | 5030 | 17020 | 86 | 86 | 133 | 22 | 108 | 20 | 14 | 20 | 13 | 49 | 24 | PT1/8 \times | 115 |
| | | | 5 \times 1 | 6150 | 21500 | | | | | | | | | | | | | 141 |
| | 12 | 6.35 | 2.5 \times 1 | 3870 | 12540 | 86 | 96 | 133 | 22 | 108 | 20 | 14 | 20 | 13 | 49 | 24 | PT1/8 \times | 87 |
| | | | 3.5 \times 1 | 5030 | 17020 | | | | | | | | | | | | | 115 |
| | 12 | 7.144 | 2.5 \times 1 | 4540 | 14460 | 87 | 102 | 134 | 22 | 110 | 20 | 14 | 20 | 13 | 50 | 25 | PT1/8 \times | 89 |
| | | | 3.5 \times 1 | 5900 | 19620 | | | | | | | | | | | | | 117 |
| | | | 5 \times 1 | 7210 | 24780 | | | | | | | | | | | | | 145 |
| | | | 5 \times 1 | 7210 | 24780 | | | | | | | | | | | | | 145 |
| | 16 | 7.144 | 2.5 \times 1 | 4540 | 14460 | 87 | 113 | 134 | 22 | 110 | 20 | 14 | 20 | 13 | 50 | 25 | PT1/8 \times | 89 |
| | | | 3.5 \times 1 | 5900 | 19620 | | | | | | | | | | | | | 117 |
| 5 \times 1 | | | 7210 | 24780 | 145 | | | | | | | | | | | | | |
| 5 \times 1 | | | 7210 | 24780 | 145 | | | | | | | | | | | | | |
| 16 | 7.938 | 2.5 \times 1 | 5260 | 15430 | 89 | 128 | 148 | 28 | 118 | 25 | 18 | 26 | 17.5 | 52 | 25 | PT1/8 \times | 91 | |
| | | 3.5 \times 1 | 6840 | 20940 | | | | | | | | | | | | | 120 | |
| 20 | 6.35 | 2.5 \times 1 | 3870 | 12540 | 86 | 124 | 133 | 22 | 108 | 20 | 14 | 20 | 13 | 49 | 24 | PT1/8 \times | 87 | |
| | | 3.5 \times 1 | 5030 | 17020 | | | | | | | | | | | | | 115 | |
| | 20 | 7.938 | 2.5 \times 1 | 5260 | 15430 | 89 | 140 | 148 | 28 | 118 | 25 | 18 | 26 | 17.5 | 52 | 25 | PT1/8 \times | 91 |
| | | | 3.5 \times 1 | 6840 | 20940 | | | | | | | | | | | | | 120 |
| | 20 | 9.525 | 2.5 \times 1 | 8870 | 25870 | 93 | 140 | 152 | 28 | 122 | 25 | 18 | 26 | 17.5 | 54 | 28 | PT1/8 \times | 105 |
| | | | 3.5 \times 1 | 11530 | 35110 | | | | | | | | | | | | | 136 |
| | | | 5 \times 1 | 14090 | 44350 | | | | | | | | | | | | | 167 |
| | | | 5 \times 1 | 14090 | 44350 | | | | | | | | | | | | | 167 |
| 80 | 10 | 6.35 | 3.5 \times 1 | 5630 | 21660 | 103 | 90 | 150 | 22 | 126 | 20 | 14 | 20 | 13 | 58 | 25 | PT1/8 \times | 133 |
| | | | 5 \times 1 | 6880 | 27360 | | | | | | | | | | | | | 164 |
| | 12 | 7.938 | 3.5 \times 1 | 7670 | 27030 | 123 | 101 | 170 | 22 | 146 | 20 | 14 | 20 | 13 | 66 | 28 | PT1/8 \times | 143 |
| | | | 5 \times 1 | 9380 | 34140 | | | | | | | | | | | | | 177 |
| | 16 | 9.525 | 2.5 \times 1 | 9900 | 33200 | 126 | 124 | 185 | 28 | 155 | 30 | 18 | 26 | 17.5 | 70 | 28 | PT1/8 \times | 124 |
| | | | 3.5 \times 1 | 12990 | 45050 | | | | | | | | | | | | | 162 |
| 5 \times 1 | | | 15880 | 56910 | 201 | | | | | | | | | | | | | |
| 5 \times 1 | | | 15880 | 56910 | 201 | | | | | | | | | | | | | |
| 20 | 9.525 | 2.5 \times 1 | 9900 | 33200 | 126 | 140 | 185 | 28 | 155 | 30 | 18 | 26 | 17.5 | 70 | 28 | PT1/8 \times | 124 | |
| | | 3.5 \times 1 | 12990 | 45050 | | | | | | | | | | | | | 162 | |
| 100 | 16 | 9.525 | 2.5 \times 1 | 11320 | 41820 | 146 | 131 | 217 | 32 | 181 | 30 | 22 | 32 | 21.5 | 82 | 35 | PT1/8 \times | 139 |
| | | | 3.5 \times 1 | 14720 | 56750 | | | | | | | | | | | | | 182 |
| | | | 5 \times 1 | 17990 | 71690 | | | | | | | | | | | | | 226 |
| | 20 | 9.525 | 2.5 \times 1 | 11320 | 41820 | 146 | 148 | 217 | 32 | 181 | 30 | 22 | 32 | 21.5 | 82 | 35 | PT1/8 \times | 139 |
| | | | 3.5 \times 1 | 14720 | 56750 | | | | | | | | | | | | | 182 |
| | | | 5 \times 1 | 17990 | 71690 | | | | | | | | | | | | | 226 |

FDVE



Unit: mm

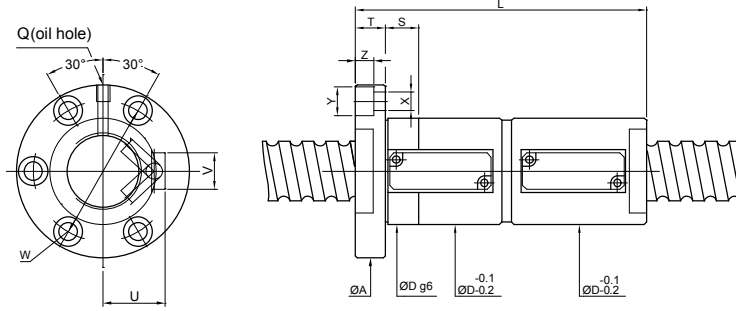
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | FIT S | BOLT | | | RETURN TUBE | | OIL HOLE Q | STIFFNESS $kgf/\mu m$ |
|------------|------|-----------|--------------------------------------|---|-----------|-----|-----|--------|----|----|---|------|------|-----|-------------|----|----------------|-----------------------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV) Ca | Static Co | Dg6 | L | A | T | W | | X | Y | Z | U | V | | |
| | | | | | | | | | | | Dynamic (1 \times 10 ⁶ REV) Ca | | | | | | Static Co | |
| 12 | 10 | 2.381 | 2.5 \times 1 | 420 | 720 | 25 | 102 | 48 | 10 | 36 | 10 | 4.5 | 8 | 4.4 | 14 | 12 | M6 \times 1P | 30 |
| | | | 3.5 \times 1 | 1210 | 2380 | 38 | 113 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 51 |
| 20 | 16 | 3.969 | 1.5 \times 1 | 830 | 1530 | 38 | 128 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 35 |
| | | | 2.5 \times 1 | 1210 | 2380 | 38 | 160 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 51 |
| 25 | 20 | 3.969 | 1.5 \times 1 | 830 | 1530 | 38 | 130 | 62 | 13 | 50 | 10 | 5.5 | 9.5 | 5.5 | 23 | 15 | M6 \times 1P | 35 |
| | | | 2.5 \times 1 | 920 | 1930 | 42 | 126 | 68 | 15 | 55 | 15 | 6.6 | 11 | 6.6 | 26 | 14 | M6 \times 1P | 41 |
| 32 | 16 | 3.969 | 1.5 \times 1 | 1010 | 2480 | 49 | 162 | 78 | 15 | 63 | 15 | 6.6 | 11 | 6.6 | 29 | 15 | M8 \times 1P | 49 |
| | | | 2.5 \times 1 | 1470 | 3860 | 57 | 205 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 73 |
| 32 | 20 | 3.969 | 3.5 \times 1 | 1910 | 5240 | 49 | 213 | 78 | 15 | 63 | 15 | 6.6 | 11 | 6.6 | 29 | 15 | M8 \times 1P | 96 |
| | | | 5 \times 1 | 2340 | 6610 | 57 | 244 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 120 |
| 32 | 20 | 6.35 | 2.5 \times 1 | 2830 | 8200 | 57 | 244 | 98 | 18 | 77 | 20 | 11 | 17.5 | 11 | 34 | 22 | M8 \times 1P | 80 |
| | | | 3.5 \times 1 | 3680 | 11120 | 57 | 284 | 113 | 21 | 82 | 22 | 12 | 18.5 | 12 | 36 | 24 | M8 \times 1P | 105 |
| 32 | 20 | 6.35 | 5 \times 1 | 4490 | 14050 | 57 | 284 | 113 | 21 | 82 | 22 | 12 | 18.5 | 12 | 36 | 24 | M8 \times 1P | 131 |
| | | | 5 \times 1 | 2350 | 6610 | 57 | 284 | 113 | 21 | 82 | 22 | 12 | 18.5 | 12 | 36 | 24 | M8 \times 1P | 120 |



Unit: mm

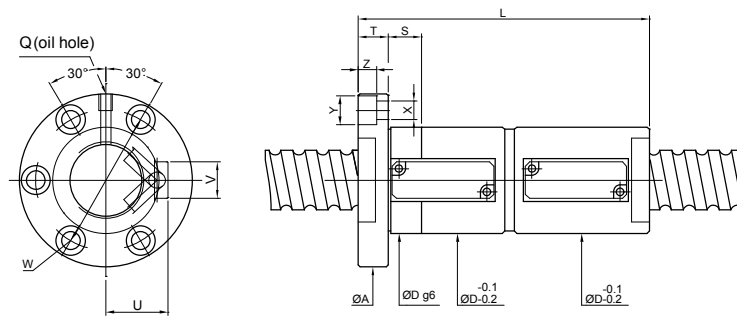
| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | FIT | BOLT | | | RETURN TUBE | | OIL HOLE | STIFFNESS | |
|------------|------|----------------|--------------------------------------|--|-----------|-------|-----|--------|-----|----|--------------|------|------|------|-------------|----------------|----------------|----------------|-----|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | | S | X | Y | Z | U | | | V |
| | | | | | | | | | | | kgf/ μ m | | | | | | | | |
| 36 | 10 | 6.35 | 3.5 \times 1 | 3890 | 9390 | 60 | 155 | 100 | 18 | 80 | 20 | 11 | 17.5 | 11 | 36 | 22 | M8 \times 1P | 115 | |
| | | | 5 \times 1 | 4750 | 11860 | | 175 | | | | | | | | | | | 143 | |
| | 12 | 6.35 | 2.5 \times 1 | 2990 | 6920 | 60 | 152 | 100 | 18 | 80 | 20 | 11 | 17.5 | 11 | 36 | 22 | M8 \times 1P | 88 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 176 | | | | | | | | | | | 115 | |
| | 16 | 6.35 | 2.5 \times 1 | 2990 | 6920 | 60 | 173 | 100 | 18 | 80 | 20 | 11 | 17.5 | 11 | 36 | 22 | M8 \times 1P | 88 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 205 | | | | | | | | | | | 115 | |
| | 20 | 6.35 | 1.5 \times 1 | 2050 | 4450 | 60 | 164 | 100 | 18 | 80 | 20 | 11 | 17.5 | 11 | 36 | 22 | M8 \times 1P | 59 | |
| | | | 2.5 \times 1 | 2990 | 6920 | | 204 | | | | | | | | | | | 88 | |
| | | | 3.5 \times 1 | 3890 | 9390 | | 244 | | | | | | | | | | | 115 | |
| | | | 5 \times 1 | 4750 | 11860 | | 284 | | | | | | | | | | | 143 | |
| | 40 | 10 | 6.35 | 3.5 \times 1 | 4130 | 10560 | 64 | 155 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 125 |
| | | | | 5 \times 1 | 5050 | 13340 | | 175 | | | | | | | | | | | 155 |
| 12 | | 6.35 | 2.5 \times 1 | 3180 | 7780 | 64 | 141 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 95 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 165 | | | | | | | | | | | 125 | |
| 16 | | 6.35 | 2.5 \times 1 | 3180 | 7780 | 64 | 173 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 95 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 205 | | | | | | | | | | | 125 | |
| 16 | | 7.144 | 2.5 \times 1 | 3740 | 8790 | 64 | 173 | 104 | 18 | 84 | 15 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 98 | |
| | | | 3.5 \times 1 | 4870 | 11930 | | 205 | | | | | | | | | | | 128 | |
| 20 | | 6.35 | 1.5 \times 1 | 2180 | 5000 | 64 | 164 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 64 | |
| | | | 2.5 \times 1 | 3180 | 7780 | | 204 | | | | | | | | | | | 95 | |
| | | | 3.5 \times 1 | 4130 | 10560 | | 244 | | | | | | | | | | | 125 | |
| | | | 5 \times 1 | 5050 | 13340 | | 284 | | | | | | | | | | | 155 | |
| 40 | 6.35 | 1.5 \times 1 | 2180 | 5000 | 64 | 242 | 104 | 18 | 84 | 20 | 11 | 17.5 | 11 | 38 | 22 | PT1/8 \times | 64 | | |

FDVE



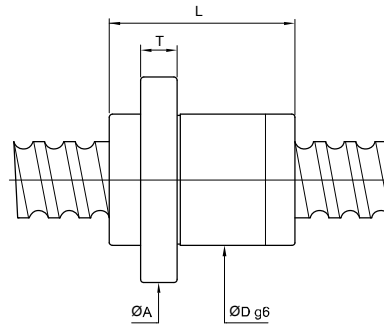
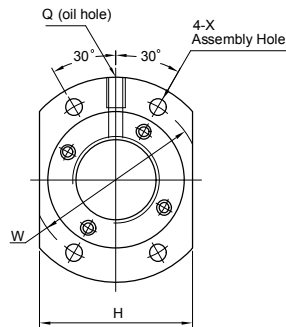
Unit: mm

| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD (kgf) | | NUT | | FLANGE | | | FIT | BOLT | | | RETURN TUBE | | OIL HOLE | STIFFNESS |
|----------------|-------|----------------|--------------------------------------|---|-----------|-----|-----|--------|----|----|-----|------|------|----|-------------|----------------|----------------|-----------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV) Ca | Static Co | Dg6 | L | A | T | W | | S | X | Y | Z | U | | |
| 50 | 10 | 6.35 | 3.5 \times 1 | 4560 | 13230 | 73 | 155 | 118 | 18 | 96 | 20 | 11 | 17.5 | 11 | 43 | 22 | PT1/8 \times | 149 |
| | | | 5 \times 1 | 5580 | 16710 | | 175 | | | | | | | | | | | 185 |
| | 12 | 6.35 | 2.5 \times 1 | 3510 | 9750 | 73 | 152 | 118 | 18 | 96 | 20 | 11 | 17.5 | 11 | 43 | 22 | PT1/8 \times | 112 |
| | | | 3.5 \times 1 | 4560 | 13230 | | 176 | | | | | | | | | | | 149 |
| | 12 | 7.144 | 2.5 \times 1 | 4080 | 11260 | 75 | 161 | 122 | 20 | 98 | 15 | 14 | 20 | 13 | 44 | 24 | PT1/8 \times | 114 |
| | | | 3.5 \times 1 | 5300 | 15280 | | 185 | | | | | | | | | | | 151 |
| | 16 | 6.35 | 2.5 \times 1 | 3510 | 9750 | 73 | 174 | 118 | 18 | 96 | 20 | 11 | 17.5 | 11 | 43 | 22 | PT1/8 \times | 112 |
| | | | 3.5 \times 1 | 4560 | 13230 | | 206 | | | | | | | | | | | 149 |
| | 16 | 7.144 | 2.5 \times 1 | 4080 | 11260 | 75 | 180 | 122 | 20 | 98 | 15 | 14 | 20 | 13 | 44 | 24 | PT1/8 \times | 114 |
| | | | 3.5 \times 1 | 5300 | 15280 | | 212 | | | | | | | | | | | 151 |
| | 20 | 7.144 | 1.5 \times 1 | 2790 | 7240 | 75 | 179 | 122 | 20 | 98 | 15 | 14 | 20 | 13 | 44 | 20 | PT1/8 \times | 77 |
| | | | 2.5 \times 1 | 4080 | 11260 | | 219 | | | | | | | | | | | 114 |
| 3.5 \times 1 | | | 5300 | 15280 | 259 | | 151 | | | | | | | | | | | |
| 5 \times 1 | | | 6480 | 19300 | 299 | | 187 | | | | | | | | | | | |
| 20 | 7.938 | 2.5 \times 1 | 4750 | 12090 | 76 | 219 | 123 | 25 | 99 | 20 | 14 | 20 | 13 | 46 | 25 | PT1/8 \times | 117 | |
| | | 3.5 \times 1 | 6180 | 16400 | | 259 | | | | | | | | | | | 154 | |
| 50 | 7.938 | 5 \times 1 | 7550 | 20720 | 76 | 299 | 123 | 25 | 99 | 20 | 14 | 20 | 13 | 46 | 25 | PT1/8 \times | 191 | |
| | | 1.5 \times 1 | 3250 | 7770 | | 305 | | | | | | | | | | | 79 | |



Unit: mm

| SCREW SIZE | | BALL DIA. | EFFECTIVE TURNS circuit \times row | BASIC RATE LOAD(kgf) | | NUT | | FLANGE | | | FIT S | BOLT | | | RETURN TUBE | | OIL HOLE Q | STIFFNESS kgf/ μ m | | |
|------------|-------|----------------|--------------------------------------|--|-----------|-----|-----|--------|-----|-----|-------|------|------|------|-------------|----------------|----------------|------------------------|------|-------|
| O.D. | LEAD | | | Dynamic (1 \times 10 ⁶ REV.) Ca | Static Co | Dg6 | L | A | T | W | | X | Y | Z | U | V | | | | |
| | | | | | | | | | | | | | | | | | | | 5030 | 17020 |
| 63 | 10 | 6.35 | 3.5 \times 1 | 5030 | 17020 | 86 | 155 | 133 | 22 | 108 | 20 | 14 | 20 | 13 | 49 | 24 | PT1/8 \times | 178 | | |
| | | | 5 \times 1 | 6150 | 21500 | | 175 | | | | | | | | | | | | 220 | |
| | 12 | 6.35 | 2.5 \times 1 | 3870 | 12540 | | 153 | | | | | | | | | | | | 134 | |
| | | | 3.5 \times 1 | 5030 | 17020 | 86 | 177 | 133 | 22 | 108 | 20 | 14 | 20 | 13 | 49 | 24 | PT1/8 \times | 178 | | |
| | 12 | 7.144 | 2.5 \times 1 | 4540 | 14460 | | 158 | | | | | | | | | | | | 136 | |
| | | | 5 \times 1 | 5900 | 19620 | 87 | 182 | 134 | 22 | 110 | 20 | 14 | 20 | 13 | 50 | 25 | PT1/8 \times | 180 | | |
| | 16 | 7.144 | 2.5 \times 1 | 4540 | 14460 | | 177 | | | | | | | | | | | | | 139 |
| | | | 5 \times 1 | 5900 | 19620 | 87 | 209 | 134 | 22 | 110 | 20 | 14 | 20 | 13 | 50 | 25 | PT1/8 \times | 184 | | |
| 16 | 7.938 | 2.5 \times 1 | 5260 | 15430 | | 207 | | | | | | | | | | | | | 134 | |
| | | 5 \times 1 | 6840 | 20940 | 89 | 239 | 148 | 28 | 118 | 25 | 18 | 26 | 17.5 | 52 | 25 | PT1/8 \times | 178 | | | |
| 20 | 6.35 | 2.5 \times 1 | 3870 | 12540 | | 205 | | | | | | | | | | | | | 134 | |
| | | 5 \times 1 | 5030 | 17020 | 86 | 245 | 133 | 22 | 108 | 20 | 14 | 20 | 13 | 49 | 24 | PT1/8 \times | 178 | | | |
| 20 | 7.938 | 2.5 \times 1 | 5260 | 15430 | | 221 | | | | | | | | | | | | | 139 | |
| | | 5 \times 1 | 6840 | 20940 | 89 | 261 | 148 | 28 | 118 | 25 | 18 | 26 | 17.5 | 52 | 25 | PT1/8 \times | 184 | | | |
| 20 | 9.525 | 2.5 \times 1 | 8870 | 25870 | | 219 | | | | | | | | | | | | | 158 | |
| | | 5 \times 1 | 11530 | 35110 | 93 | 259 | 152 | 28 | 122 | 25 | 18 | 26 | 17.5 | 54 | 28 | PT1/8 \times | 208 | | | |
| 80 | 10 | 6.35 | 3.5 \times 1 | 5630 | 21660 | 103 | 159 | 150 | 22 | 126 | 20 | 14 | 20 | 13 | 58 | 25 | PT1/8 \times | 207 | | |
| | | | 5 \times 1 | 6880 | 27360 | | 179 | | | | | | | | | | | | 256 | |
| | 12 | 7.938 | 3.5 \times 1 | 7670 | 27030 | 123 | 184 | 170 | 22 | 146 | 20 | 14 | 20 | 13 | 66 | 28 | PT1/8 \times | 222 | | |
| | | | 5 \times 1 | 9380 | 34140 | | 208 | | | | | | | | | | | | 275 | |
| | 16 | 9.525 | 2.5 \times 1 | 9900 | 33200 | | 188 | | | | | | | | | | | | | 189 |
| | | | 5 \times 1 | 12990 | 45050 | 126 | 220 | 185 | 28 | 155 | 30 | 18 | 26 | 17.5 | 70 | 28 | PT1/8 \times | 251 | | |
| | 20 | 9.525 | 2.5 \times 1 | 9900 | 33200 | | 220 | | | | | | | | | | | | | 189 |
| | | | 5 \times 1 | 12990 | 45050 | 126 | 260 | 185 | 28 | 155 | 30 | 18 | 26 | 17.5 | 70 | 28 | PT1/8 \times | 251 | | |
| 100 | 16 | 9.525 | 2.5 \times 1 | 11320 | 41820 | | 211 | | | | | | | | | | | | 213 | |
| | | | 5 \times 1 | 14720 | 56750 | 146 | 243 | 217 | 32 | 181 | 30 | 22 | 32 | 21.5 | 82 | 35 | PT1/8 \times | 283 | | |
| | 20 | 9.525 | 2.5 \times 1 | 17990 | 71690 | | 259 | | | | | | | | | | | | 351 | |
| | | | 5 \times 1 | 11320 | 41820 | | 228 | | | | | | | | | | | | 213 | |
| 20 | 9.525 | 3.5 \times 1 | 14720 | 56750 | 146 | 268 | 217 | 32 | 181 | 30 | 22 | 32 | 21.5 | 82 | 35 | PT1/8 \times | 283 | | | |
| | | 5 \times 1 | 17990 | 71690 | | 308 | | | | | | | | | | | | 351 | | |



Unit: mm

End Cap Series

| SCREW SIZE | | BALL DIA | EFFECTIVE TURNS circuit \times number of thread | BASIC RATE LOAD (kgf) | | BALLNUT DIMENSION | | | | | | | | |
|------------|------|----------|--|--|--------------|-------------------|-----|--------|----|-----|--------|------------|---------------------------|-----|
| O.D. | LEAD | | | Dynamic (1×10^6 REV.) Ca | Static Co | NUT | | FLANGE | | | BOLT X | OIL HOLE Q | STIFFNESS kgf/ μ m | |
| | | | | | | Dg6 | L | A | T | H | | | | W |
| 15 | 10 | 3.715 | 2.8 \times 2 | 1410 | 2800 | 34 | 44 | 57 | 10 | 40 | 45 | 5.5 | M6 \times 1P | 34 |
| 16 | 16 | 3.175 | 1.8 \times 2 | 700 | 1400 | 32 | 38 | 53 | 10 | 38 | 42 | 4.5 | M6 \times 1P | 18 |
| 20 | 20 | 3.175 | 1.8 \times 2 | 1100 | 2500 | 39 | 52 | 62 | 10 | 46 | 50 | 5.5 | M6 \times 1P | 29 |
| 25 | 25 | 3.969 | 1.8 \times 2 | 1650 | 3900 | 47 | 62 | 74 | 12 | 56 | 60 | 6.6 | M6 \times 1P | 35 |
| | | | 1.8 \times 4 | 2830 | 7800 | | | | | | | | | 69 |
| 32 | 32 | 4.762 | 1.8 \times 2 | 2360 | 5940 | 58 | 78 | 92 | 15 | 68 | 74 | 9 | M6 \times 1P | 44 |
| | | | 1.8 \times 4 | 4280 | 11800 | | | | | | | | | 87 |
| 36 | 24 | 7.144 | 2.8 \times 2 | 6450 | 15220 | 75 | 94 | 115 | 18 | 86 | 94 | 11 | M6 \times 1P | 77 |
| 40 | 40 | 6.35 | 1.8 \times 2 | 3860 | 9900 | 73 | 95 | 114 | 17 | 84 | 93 | 11 | M6 \times 1P | 55 |
| | | | 1.8 \times 4 | 7000 | 19880 | | | | | | | | | 108 |
| 50 | 50 | 7.938 | 1.8 \times 2 | 5800 | 15800 | 90 | 120 | 135 | 20 | 104 | 112 | 14 | M6 \times 1P | 68 |
| | | | 1.8 \times 4 | 10520 | 31600 | | | | | | | | | 135 |