# BALL SCREW ORDERING CODE

| PGT | - | D | - | 16 | x | 5 | - | 52 | - | RH | - | 1111 | - | FM | - | 0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 |

**1. PRODUCTS**

PGT= BALL SCREW & NUT
PGS = BALL SCREW
PGF = FLANGE NUT

**2. TYPE OF NUT**

D = DIN6905

**3. NOMINAL DIAMETER**

Ex: 1111mm

**4. LEAD (mm)**

Ex: 5

**5. SCREW ACCURACY GRADE**

052 = 52 µ m/300mm (P7) ROLLED BALL SCREW
023 = 23 µ m/300mm (P5) ROLLED BALL SCREW
016 = 16 µ m/300mm (P4) GROUND BALL SCREW
012 = 12 µ m/300mm (P3) GROUND BALL SCREW
008 = 08 µ m/300mm (P2) GROUND BALL SCREW

**6. THREAD**

RH = RIGHT
LH = LEFT

**7. SCREW LENGTH (mm)**

**8. NUT TYPE**

F = MONO FLANGE NUT
M = MONO CYLINDER NUT
FF = PRELOAD DOUBLE FLANGE NUTS
MM = PRELOAD DOUBLE CYLINDER NUTS
FM = PRELOAD FLANGE+CYLINDER NUT

**9. OTHER**

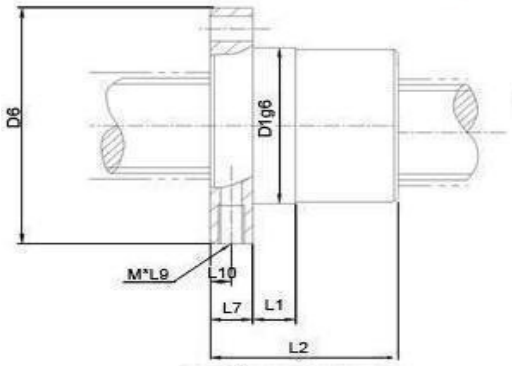
0 = NO
1 = OK (WITH EXPLANATION)

**FOR EXAMPLE:**

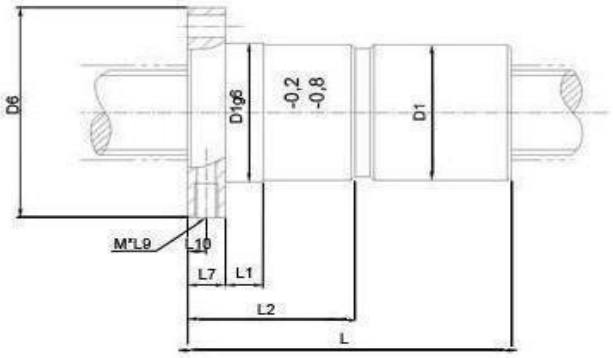
1. **ORDER BALL SCREWS & NUTS**
   PGT - D - 25x5 - 052 - RH - 1100 - FM - 0
2. **ONLY ORDER BALL SCREW**
   PGS - 25x5 - 052 - RH - 1100 - 0
3. **ONLY ORDER NUT**
   PGF - D - 25x5 - RH - 0

## INTERNAL CIRCULATION BALL SCREW

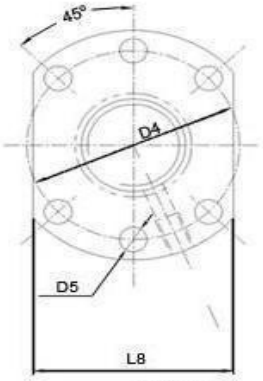
## MODEL: DIN69051



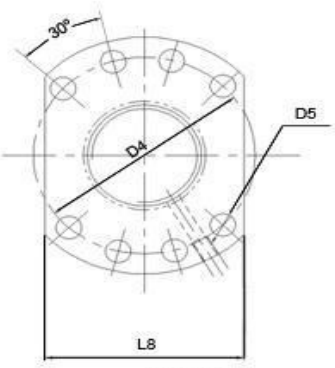

SINGLE NUT "F"




DOUBLE NUT "FM"



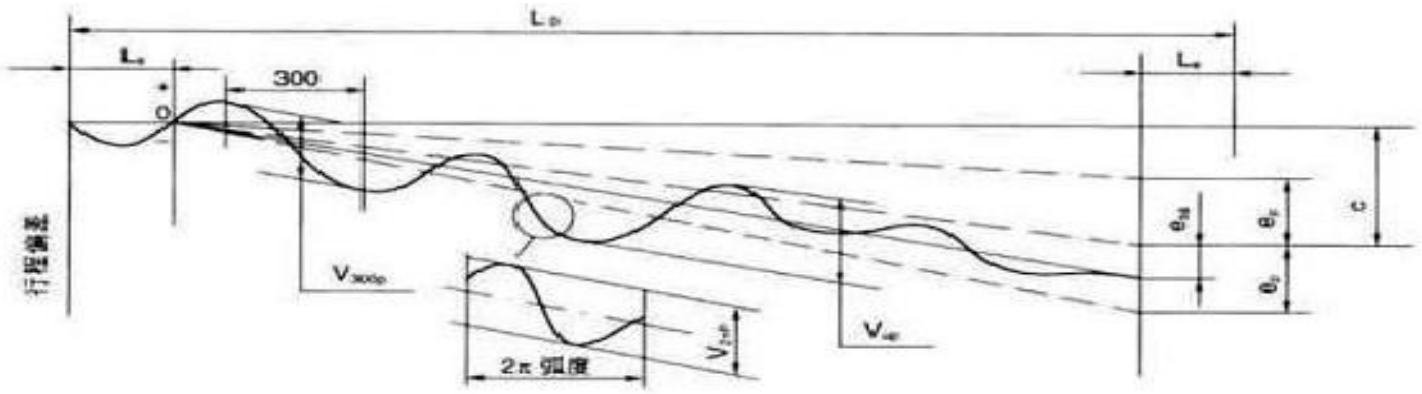

TYPE A




TYPE B

| MODEL NUMBER | NOMINAL DIAMETER | NOMINAL LEAD | FLANGE TYPE | BALL DIAMETER | NUT DIMENSION (mm) | | | | | | | | | | | | CIRCUITS | DYNAMIC LOAD | STATIC LOAD | RIGIDITY (KN/um) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | D1 | D4 | D5 | D6 | L | L1 | L2 | L7 | L8 | L9 | L10 | M | | Ca (KN) | Co (KN) | F | FM |
| PGF-1204 | 12 | 4 | A | 2.381 | 22 | 32 | 4.8 | 42 | \ | 10 | 35 | 8 | 36 | 10 | 4 | M6 | 3 | 4 | 6.7 | 200 | \ |
| PGF-1604 | 16 | 4 | A | 2.381 | 28 | 38 | 5.5 | 48 | 82 | 10 | 42 | 10 | 40 | 10 | 5 | M6 | 3 | 4.35 | 9.2 | 210 | 420 |
| PGF-1605 | | 5 | | 3.175 | | | | | 82 | 10 | 42 | | | | | | | 7.65 | 13.2 | 230 | 460 |
| PGF-1610 | | 10 | | 3.5 | | | | | \ | 10 | 55 | | | | | | | 6.8 | 12.6 | 215 | \ |
| PGF-2004 | 20 | 4 | A | 2.381 | 36 | 47 | 6.6 | 58 | \ | 10 | 38 | 10 | 44 | 10 | 5 | M6 | 3 | 5.3 | 12 | 220 | \ |
| PGF-2005 | | 5 | | 3.175 | | | | | 85 | 10 | 42 | | | | | | | 8.6 | 17.1 | 240 | 480 |
| PGF-2505 | 25 | 5 | A | 3.175 | 40 | 51 | 6.6 | 62 | 85 | 10 | 42 | 10 | 48 | 10 | 5 | M6 | 3 | 9.8 | 23 | 260 | 520 |
| PGF-2510 | | 10 | | 3.5 | | | | | \ | 16 | 67 | | | | | | | 8.7 | 20.5 | 230 | \ |
| PGF-3205 | 32 | 5 | A | 3.175 | 50 | 65 | 9 | 80 | 108 | 10 | 55 | 12 | 62 | 10 | 6 | M6 | 5 | 16.9 | 51 | 520 | 1040 |
| PGF-3210 | | 10 | | 6.350 | 53 | | | | 136 | 16 | 69 | | | | | M8*1 | 3 | 26.1 | 53.1 | 340 | 680 |
| PGF-4005 | 40 | 5 | A / B | 3.175 | 63 | 78 | 9 | 93 | 110 | 10 | 55 | 14 | 70 | 10 | 7 | M6 | 5 | 19 | 66.2 | 620 | 1240 |
| PGF-4010 | | 10 | | 6.350 | | | | | 138 | 16 | 71 | | | | | M8*1 | 3 | 30.1 | 71 | 420 | 840 |
| PGF-5010 | 50 | 10 | A / B | 6.350 | 75 | 93 | 11 | 110 | 184 | 16 | 95 | 16 | 85 | 10 | 8 | M8*1 | 5 | 53.1 | 155 | 815 | 1630 |
| PGF-6310 | 63 | 10 | B | 6.0 | 90 | 108 | 11 | 125 | 193 | 16 | 97 | 18 | 95 | 10 | 9 | M8*1 | 5 | 60.7 | 206 | 1000 | 2000 |
| PGF-8010 | 80 | 10 | D | 6.500 | 105 | 125 | 14 | 145 | 192 | 10 | 101 | 22 | 110 | 10 | 11 | M8*1 | 5 | 66.6 | 265 | 2000 | 4000 |

## ACCURACY




| | |
|---|---|
| **V300p** | Fluctuation per 300mm of the thead length of a given portion |
| **V2 π p** | Variation for one revolution made within the effective thead length of screw shaft (only use for type P) |
| **ep** | Average bias of in the effective travel (Lu) (only use for type P) |
| **ep** | Average bias of in the effective travel (Lu) (only use for type P) |
| **Vup** | Variation for the effective travel (lu) of nut (only use for type P) |
| **C** | A distance is substracting target travel from the actual mean travel in the effective path |

## ACCURACY RANGE

ACCURACY GRADE LENGTH **(mm)**

| DIA | <500 | 500~1000 | 1000~1500 | 1500~2000 | 2000~2500 | 2500~3000 | 3000~3500 | 3500~4000 | 4000~5000 | 5000~6000 |
|---|---|---|---|---|---|---|---|---|---|---|
| **12** | 3, 4 | 5, 7, 10 | | | | | | | | |
| **16** | 2, 3, 4 | 5, 7, 10 | | | | | | | | |
| **20** | 2 | 3, 4 | 5, 7, 10 | | | | | | | |
| **25** | 2, 3 | | 4, 5 | 5, 7, 10 | | | | | | |
| **32** | 2 | | 3, 4, 5 | 5, 7, 10 | | | | | | |
| **40** | 2 | | 3, 4, 5 | | 5, 7, 10 | | | | | |
| **50** | 2 | | 3, 4, 5 | | 5, 7, 10 | | | | | |
| **63** | 2 | | 3, 4, 5 | | 5, 7, 10 | | | | | |
| **80** | 2 | | 3, 4, 5 | | 5, 7, 10 | | | | | |

**NOTE**

Accuracy grade is according to GB/T17587.3