



ROBOT  
ACCESSORY

# 薄型2爪平行グリッパ 2-jaw Parallel Thin Gripper NPGT series

## 2爪平行グリッパの薄型モデル Thin type for 2-jaw parallel gripper

- 薄型ボデーにより、自由度の高いシステム設計が可能  
The thin body enables flexible system design
- 汎用モデルより高い繰り返し精度を実現  
Achieved higher repeatability than Standard models
- 同等ストローク汎用モデルより約1.5倍高い把持力を実現  
NPGT achieves one and half times as much gripping force as similar stroke model



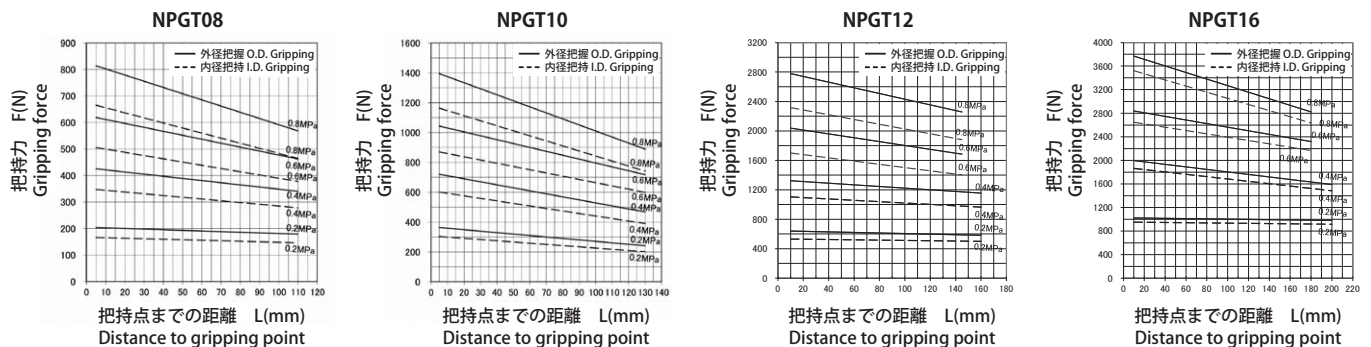
### 仕様表 Specifications

| 項目<br>Item<br><br>型式<br>Model | ジョーストローク直径<br>Jaw Stroke<br>(diameter)<br>(mm) | 把持力(注1)<br>Gripping Force (Note1)      |                               |                               | 繰り返し精度<br>Repeatability<br>(mm) | 本体質量<br>Mass of products<br>(kg) | 流体消費量<br>(cm <sup>3</sup> /往復)<br>Amount of Air Consumption<br>(cm <sup>3</sup> /Round Trip) | 使用空圧力<br>Working Air Pressure<br>(MPa) | 周囲温度<br>Operating Temperature<br>(°C) |
|-------------------------------|--|--|-------------------------------|-------------------------------|---------------------------------|----------------------------------|--|--|---------------------------------------|
|                               |  | 測定距離<br>Measurement Distance<br>L (mm) | 外径把持<br>O. D. Gripping<br>(N) | 内径把持<br>I. D. Gripping<br>(N) |                                 |                                  |  |  |                                       |
| NPGT08                        | 16.6   | 10                                     | 600                           | 500                           | ±0.008                          | 0.79                             | 34   | 0.2~0.8                                | 5~60                                  |
| NPGT10                        | 20.8   | 10                                     | 1000                          | 860                           | ±0.008                          | 1.25                             | 64   | 0.2~0.8                                | 5~60                                  |
| NPGT12                        | 26.4   | 10                                     | 2000                          | 1700                          | ±0.008                          | 2.45                             | 152  | 0.2~0.8                                | 5~60                                  |
| NPGT16                        | 32.6   | 10                                     | 2800                          | 2650                          | ±0.008                          | 4.60                             | 524  | 0.2~0.8                                | 5~60                                  |

(注1) 供給空圧力0.6MPaでの値です。

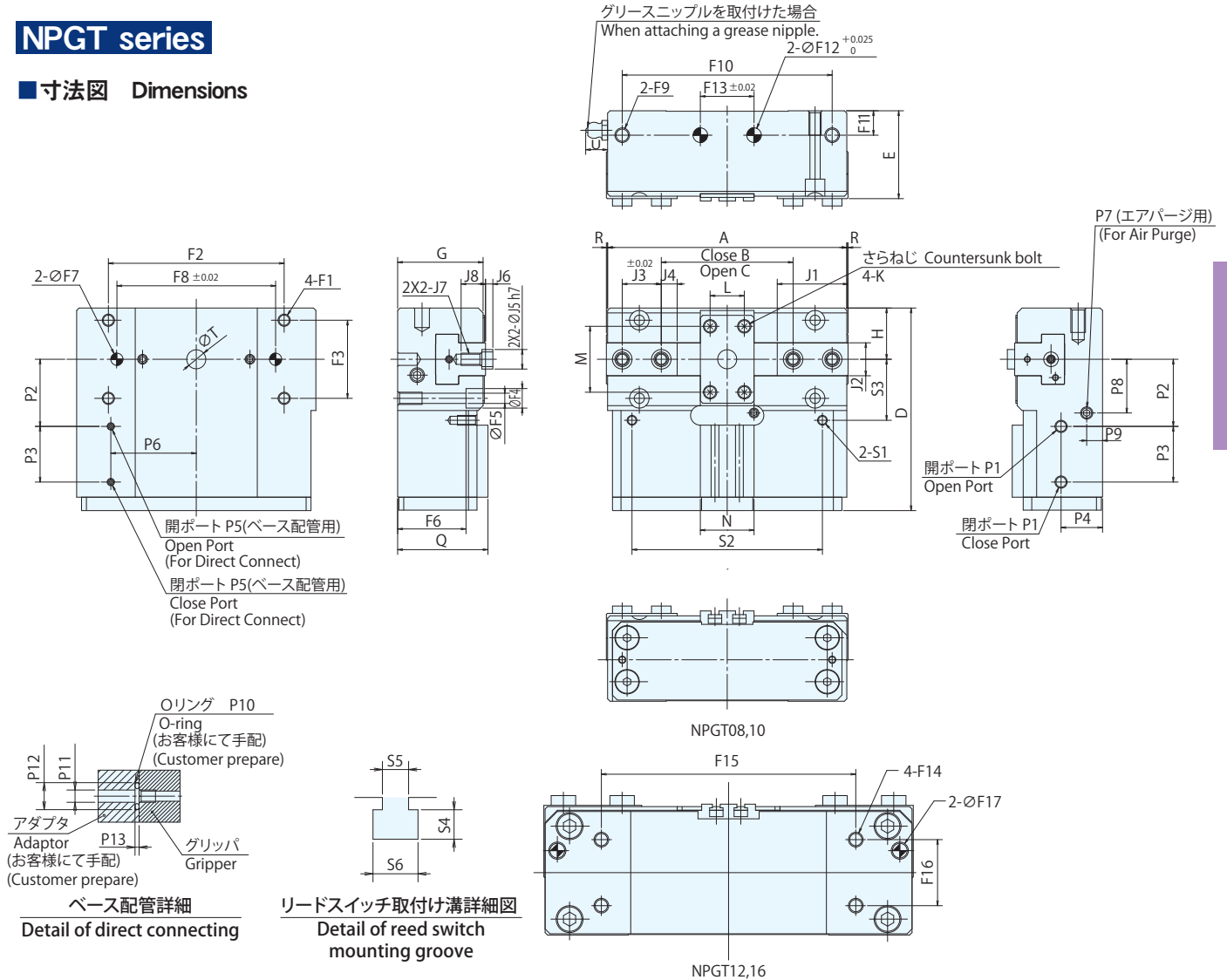
(Note1) Value at supply air pressure 0.6MPa

## 把持力曲線 Gripping force diagram



# NPGT series

## ■ 寸法図 Dimensions



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## ■ 寸法表 Dimensions

| 型式<br>Model | 外形寸法 Outline Dimensions |      |      |      |    |      |    |      |    |    |    |      |     |             |   | ジョー取付け部寸法 Dimensions of Jaw Mounting |      |    |     |         |    |     |    |
|-------------|-------------------------|------|------|------|----|------|----|------|----|----|----|------|-----|-------------|---|--------------------------------------|------|----|-----|---------|----|-----|----|
|             | A                       | B    | C    | D    | E  | G    | H  | K    | L  | M  | N  | Q    | R   | T           | U | J1                                   | J2   | J3 | J4  | J5 (h7) | J6 | J7  | J8 |
| NPGT08      | 98                      | 37.2 | 54   | 83   | 36 | 35   | 21 | M2.5 | 14 | 27 | 22 | 37   | 0.5 | —           | 9 | 29                                   | 13.5 | 16 | 6.5 | 8       | 3  | M5  | 10 |
| NPGT10      | 120                     | 46.4 | 67.2 | 95.5 | 41 | 40   | 25 | M3   | 24 | 32 | 22 | 42   | 0.2 | $\phi$ 7.8  | 9 | 32.5                                 | 18.5 | 20 | 6   | 10      | 4  | M6  | 12 |
| NPGT12      | 150                     | 60.4 | 87   | 116  | 53 | 52.5 | 30 | M3   | 32 | 40 | 22 | 53.5 | 0.5 | $\phi$ 11   | 9 | 39.5                                 | 21   | 24 | 8   | 10      | 4  | M6  | 15 |
| NPGT16      | 190                     | 76.4 | 109  | 139  | 64 | 63.5 | 36 | M3   | 40 | 50 | 22 | 64.5 | 0.5 | $\phi$ 13.9 | 9 | 53                                   | 28.5 | 32 | 12  | 14      | 4  | M10 | 20 |

| 型式<br>Model | 本体固定部寸法 Dimensions of Body Fixed Part |             |     |    |            |            |                |             |               |               |             |    |     |                |             |               |               |             |      |     |                |             |      |
|-------------|---------------------------------------|-------------|-----|----|------------|------------|----------------|-------------|---------------|---------------|-------------|----|-----|----------------|-------------|---------------|---------------|-------------|------|-----|----------------|-------------|------|
|             | F1                                    |             | F2  | F3 | F4         | F5         | F6             | F7          |               | F8            |             | F9 |     | F10            | F11         | F12           |               | F13         | F14  | F15 | F16            | F17         |      |
|             | 径<br>Diameter                         | 深さ<br>Depth |     |    |            |            | 径(+0.025)<br>0 | 深さ<br>Depth | ( $\pm$ 0.02) | 径<br>Diameter | 深さ<br>Depth |    |     | 径(+0.025)<br>0 | 深さ<br>Depth | ( $\pm$ 0.02) | 径<br>Diameter | 深さ<br>Depth |      |     | 径(+0.025)<br>0 | 深さ<br>Depth |      |
| NPGT08      | M5                                    | 10          | 72  | 32 | $\phi$ 8   | $\phi$ 4.2 | 28             | $\phi$ 5    | 8             | 65            | M6          | 12 | 86  | 10             | $\phi$ 6    | 8             | 22            | —           | —    | —   | —              | —           | —    |
| NPGT10      | M6                                    | 12          | 86  | 38 | $\phi$ 9.5 | $\phi$ 5.2 | 32             | $\phi$ 6    | 10            | 80            | M8          | 12 | 106 | 10             | $\phi$ 8    | 10            | 32            | —           | —    | —   | —              | —           | —    |
| NPGT12      | M8                                    | 12          | 110 | 45 | $\phi$ 11  | $\phi$ 6.6 | 43.5           | $\phi$ 8    | 11            | 100           | M10         | 15 | 130 | 16.5           | $\phi$ 10   | 12            | 40            | M6          | 10.5 | 104 | 27             | $\phi$ 6    | 20.5 |
| NPGT16      | M10                                   | 17          | 140 | 55 | $\phi$ 14  | $\phi$ 8.5 | 53             | $\phi$ 10   | 12            | 130           | M12         | 20 | 165 | 19             | $\phi$ 12   | 14            | 50            | M8          | 13   | 130 | 30             | $\phi$ 10   | 27   |

| 型式<br>Model | 空圧供給部寸法 Dimensions of Air Supplying Part |      |      |      |    |    |    |      |      |             |          |             |     | スイッチ取付け部寸法 Dimensions of Switch Attaching Part |     |                         |     |     |                     |    |    |
|-------------|--|------|------|------|----|----|----|------|------|-------------|----------|-------------|-----|--|-----|-------------------------|-----|-----|---------------------|----|----|
|             | P1                                       | P2   | P3   | P4   | P5 | P6 | P7 | P8   | P9   | P10 (NOK規格) |          |             | P11 | P12  | P13 | 近接スイッチ Proximity Switch |     |     | リードスイッチ Reed Switch |    |    |
|             |  |      |      |      |    |    |    |      |      |             |          |             |     |  |     |                         | S1  | S2  | S3                  | S4 | S5 |
| NPGT08      | M5                                       | 27.5 | 22.8 | 17   | M3 | 35 | M5 | 22   | 6.5  | S4          | $\phi$ 3 | $\phi$ 6.6  | 1   | M4   | 78  | 25                      | 3.6 | 3.2 | 5.5                 |    |    |
| NPGT10      | M5                                       | 32.5 | 25.8 | 19.5 | M3 | 45 | M5 | 26.5 | 8    | S4          | $\phi$ 3 | $\phi$ 6.6  | 1   | M5   | 96  | 30                      | 3.6 | 3.2 | 5.5                 |    |    |
| NPGT12      | M5                                       | 38.5 | 30.8 | 25.5 | M5 | 58 | M5 | 31.5 | 10.5 | S8          | $\phi$ 5 | $\phi$ 10.3 | 1   | M5   | 120 | 35                      | 3.6 | 3.2 | 5.5                 |    |    |
| NPGT16      | M5                                       | 46.5 | 34.3 | 31.5 | M5 | 75 | M5 | 38   | 11.5 | S8          | $\phi$ 5 | $\phi$ 10.3 | 1   | M5   | 160 | 45                      | 3.6 | 3.2 | 5.5                 |    |    |