

# Flat Type Air Hand

## AFDPG Series

### THIN DESIGN

Bore 6mm to 25mm, height 15mm to 45.5mm

### LONG STROKE TYPE AND ASYNCHRONOUS AVAILABLE

Standard is synchronous type. With stroke adjusting type is available as well.

### HIGH POSITIONING ACCURACY AND HIGH RIGIDITY



# Specifications

| Item   | Basic model | AFDPG-6                   | AFDPG-8           | AFDPG-12                  | AFDPG-14           | AFDPG-18                   | AFDPG-25                   |
|--|-------------|---------------------------|-------------------|---------------------------|--------------------|----------------------------|----------------------------|
| Cylinder bore size                           | mm          | $\phi 6 \times 2$         | $\phi 8 \times 2$ | $\phi 12 \times 2$        | $\phi 14 \times 2$ | $\phi 18 \times 2$         | $\phi 25 \times 2$         |
| Operating type                               |             |                           |                   | Double acting type        |                    |                            |                            |
| Media  |             |                           |                   | Air                       |                    |                            |                            |
| Operating pressure range                     | MPa         | 0.2~0.7                   |                   |                           | 0.15~0.7           |                            |                            |
| Proof pressure                               | MPa         |                           |                   | 1.05                      |                    |                            |                            |
| Operating temperature range                  | °C          |                           |                   | 0~60 (No frozen)          |                    |                            |                            |
| Maximum operating frequency                  | cycle/min   |                           | 120               |                           | 100                |                            | 80                         |
| Lubrication                                  |             |                           |                   | Not required              |                    |                            |                            |
| Effective gripping force(F) <sup>Note1</sup> | N           | 12                        | 17                | 44                        | 58                 | 105                        | 210                        |
| Open/closed stroke                           | mm          | 12                        | 16                | 22                        | 30                 | 40                         | 50                         |
| Stroke adjusting range <sup>Note2</sup>      | mm          | Open/closed stroke max. 6 |                   | Open/closed stroke max. 8 |                    | Open/closed stroke max. 15 | Open/closed stroke max. 25 |
| Repeatability                                | mm          |                           |                   | $\pm 0.07$                |                    |                            | $\pm 0.04$                 |
| Port size                                    |             | M3×0.5                    |                   |                           | M5×0.8             |                            |                            |
| Mass <sup>Note3</sup>                        | g           | 52                        | 86 (1)            | 200 (3)                   | 390 (5)            | 690 (10)                   | 1520 (12)                  |

Note1 : Values are obtained when grip point length is 30mm [1.18in.] under operating pressure 0.5 MPa [73psi].

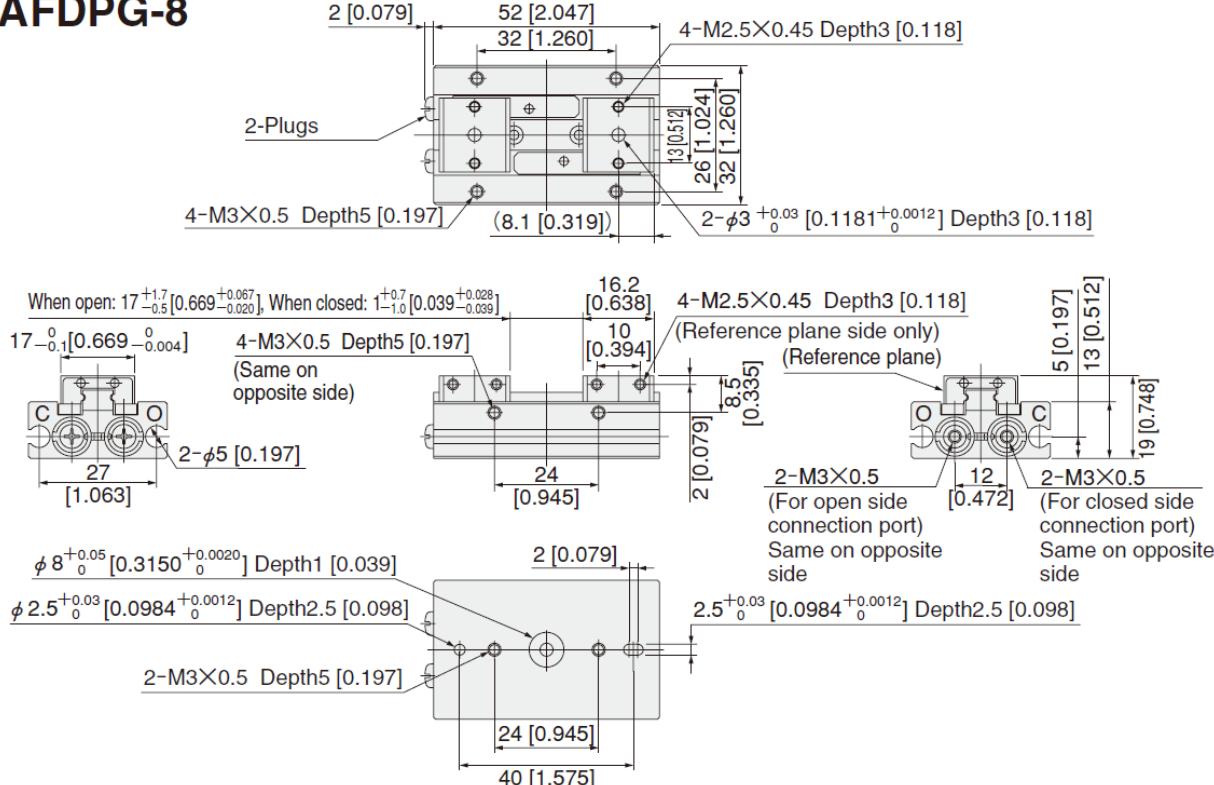
2 : Applicable range with stroke adjustment mechanism (-JA, -JB, -JC). The stroke adjustment range for -JC type is shown separately for open side and closed side.

When using the  $\phi 6$  and  $\phi 8$  both-side adjustment (-JC) type, ensure a minimum of 3 mm for the lever stroke to operate.

3 : The figure in parentheses ( ) shows the amount of additional mass for the stroke adjustment mechanism. For -JC, double the amount of the figure in parentheses ( ).

## Dimensions

### AFDPG-8



**KOGANEI**

**International America, Inc.**

39300 Civic Center Drive Suite280

Fremont CA 94538

TEL: 1-855-KOGANEI (564 2634)

FAX: 510-744-1676

MAIL: sales@koganeiusa.com

Web: www.koganeiusa.com