



**ROTARY  
CYLINDER**

# Stationary Cylinder YS series

**Provided for M/C system**  
**Versatility to enhance processing capability**

- Optimum for versatile workpieces
- Easily mounting to drilling machine, milling machine, etc
- Easily setting to multi-plate for workpiece gripper (article of out company)
- Pneumatic or hydraulic pressure can be supplied



## Combination example

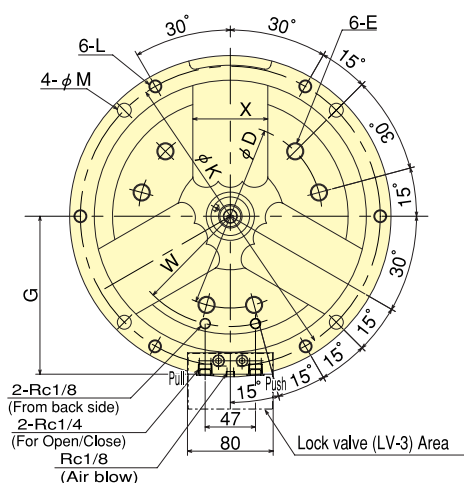
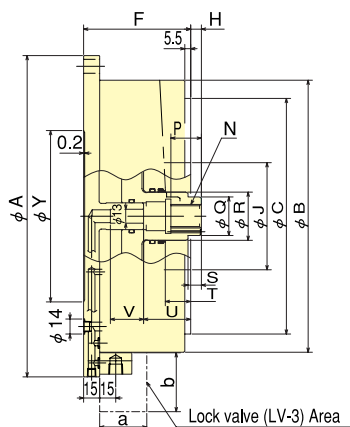


Combination with PW chuck



Combination with PU chuck

## Dimensional Drawings



## Dimensions

\*The dimensions of a/b marked are the size of LV-3(Lock-valve).

| Model   | $\phi A$ h7 | $\phi B$ | $\phi C$ h7 | $\phi D$ | E          | F   | G     | H max. | H min. | $\phi J$ | $\phi K$ | L   | $\phi M$ |
|---------|-------------|----------|-------------|----------|------------|-----|-------|--------|--------|----------|----------|-----|----------|
| YS1415K | 203         | 165      | 140         | 104.8    | M10depth17 | 72  | 103   | 8      | -7     | 75       | 185      | M10 | 11       |
| YS1820K | 248         | 210      | 170         | 133.4    | M10depth17 | 92  | 125.5 | 11     | -9     | 100      | 230      | M10 | 11       |
| YS2220K | 300         | 254      | 220         | 171.4    | M10depth17 | 100 | 147.5 | 10     | -10    | 100      | 280      | M12 | 13       |

| Model   | N   | P    | $\phi Q$ | $\phi R$ | S    | T    | U    | V  | W  | X  | Y   | a  | b  |
|---------|-----|------|----------|----------|------|------|------|----|----|----|-----|----|----|
| YS1415K | M16 | 14   | —        | 40       | —    | 9.3  | 23   | 25 | 60 | 48 | 95  | 45 | 55 |
| YS1820K | M18 | 21.5 | 30       | 40       | 7.3  | 17.3 | 35.5 | 31 | 80 | 70 | 125 | 45 | 55 |
| YS2220K | M22 | 28.5 | 36       | 45       | 12.5 | 23.7 | 44   | 31 | 95 | 70 | 160 | 45 | 55 |

## Specifications

| Model   | Piston stroke | Max. allowable pressure        |                                   | Max. thrust |                                |           |                                   | Weight | Matching chuck size |
|---------|---------------|--------------------------------|-----------------------------------|-------------|--------------------------------|-----------|-----------------------------------|--------|---------------------|
|         |               | Pneumatic                      | Hydraulic                         | Pneumatic   | 0.6MPa (6kgf/cm <sup>2</sup> ) | Hydraulic | 1.5MPa (15.3kgf/cm <sup>2</sup> ) |        |                     |
| YS1415K | 15mm          | 0.7MPa (7kgf/cm <sup>2</sup> ) | 1.5MPa (15.3kgf/cm <sup>2</sup> ) | Push        | 8.5kN (867kgf)                 | Push      | 20.8kN (2121kgf)                  | 15kg   | 6inch               |
|         |               |                                |                                   | Pull        | 8.1kN (826kgf)                 | Pull      | 20.1kN (2050kgf)                  |        |                     |
| YS1820K | 20mm          | 0.7MPa (7kgf/cm <sup>2</sup> ) | 1.5MPa (15.3kgf/cm <sup>2</sup> ) | Push        | 15.1kN (1540kgf)               | Push      | 37.7kN (3844kgf)                  | 22kg   | 8inch               |
|         |               |                                |                                   | Pull        | 14.6kN (1489kgf)               | Pull      | 36.5kN (3722kgf)                  |        |                     |
| YS2220K | 20mm          | 0.7MPa (7kgf/cm <sup>2</sup> ) | 1.5MPa (15.3kgf/cm <sup>2</sup> ) | Push        | 21.4kN (2182kgf)               | Push      | 53.6kN (5466kgf)                  | 39kg   | 10inch              |
|         |               |                                |                                   | Pull        | 20.8kN (2121kgf)               | Pull      | 51.9kN (5292kgf)                  |        |                     |