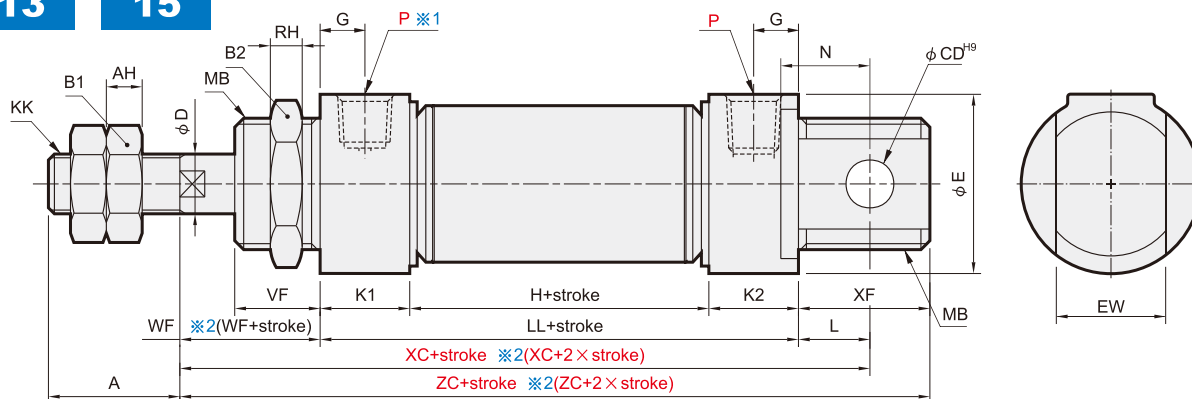


13

15



※1. 15 type  $\phi 16$  without this air port

※2. ( ) Dimension for 13 type

| Code<br>Tube I.D. | A  | AH | B1 | B2 | CD | D  | E  | EW                                                       | G   | KK       | K1 | K2 | L   | LA   | MB      | N  | P      | RH | VF | WF | XF | ZM   | ZN    | ZP    | ZQ    |
|-------------------|----|----|----|----|----|----|----|----------------------------------------------------------|-----|----------|----|----|-----|------|---------|----|--------|----|----|----|----|------|-------|-------|-------|
| 16                | 16 | 5  | 10 | 22 | 6  | 6  | 20 | $12 \begin{smallmatrix} -0.05 \\ -0.4 \end{smallmatrix}$ | 5   | M6×1.0   | 10 | 10 | 5.5 | 54.5 | M16×1.5 | 9  | M5×0.8 | 6  | 18 | 22 | 18 | 98.5 | 130.5 | 96    | 134   |
| 20                | 20 | 5  | 13 | 30 | 8  | 8  | 27 | $16 \begin{smallmatrix} -0.05 \\ -0.4 \end{smallmatrix}$ | 8   | M8×1.25  | 15 | 15 | 3   | 68   | M22×1.5 | 12 | G 1/8  | 6  | 20 | 24 | 20 | 116  | 156   | 119   | 158   |
| 25                | 22 | 6  | 17 | 30 | 8  | 10 | 27 | $16 \begin{smallmatrix} -0.05 \\ -0.4 \end{smallmatrix}$ | 7.5 | M10×1.25 | 15 | 15 | 9   | 67   | M22×1.5 | 12 | G 1/8  | 6  | 22 | 28 | 22 | 123  | 167   | 124.5 | 165.5 |

### MCMC-13

| Code<br>Stroke<br>I.D. | H    |        |         | LL   |        |         | XC    |        |         | ZC    |        |         |
|------------------------|------|--------|---------|------|--------|---------|-------|--------|---------|-------|--------|---------|
|                        | 1~50 | 51~100 | 101~150 | 1~50 | 51~100 | 101~150 | 1~50  | 51~100 | 101~150 | 1~50  | 51~100 | 101~150 |
| 16                     | 53.5 | 79.5   | 105.5   | 73.5 | 99.5   | 125.5   | 101   | 127    | 153     | 113.5 | 139.5  | 165.5   |
| 20                     | 63   | 88     | 113     | 93   | 118    | 143     | 120   | 145    | 170     | 137   | 162    | 187     |
| 25                     | 60.5 | 85.5   | 110.5   | 90.5 | 115.5  | 140.5   | 127.5 | 152.5  | 177.5   | 140.5 | 165.5  | 190.5   |

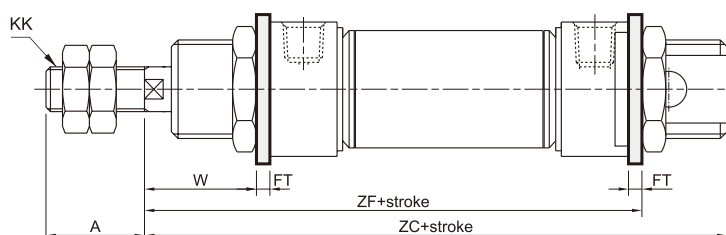
### MCMC-15

| Code<br>Stroke<br>I.D. | H    |        |         | LL   |        |         | XC   |        |         | ZC   |        |         |
|------------------------|------|--------|---------|------|--------|---------|------|--------|---------|------|--------|---------|
|                        | 1~50 | 51~100 | 101~150 | 1~50 | 51~100 | 101~150 | 1~50 | 51~100 | 101~150 | 1~50 | 51~100 | 101~150 |
| 16                     | 34.5 | 50     | 65.5    | 54.5 | 70     | 85.5    | 82   | 97.5   | 113     | 94.5 | 110    | 125.5   |
| 20                     | 38   | 88     | 113     | 68   | 118    | 143     | 95   | 145    | 170     | 112  | 162    | 187     |
| 25                     | 37   | 85.5   | 110.5   | 67   | 115.5  | 140.5   | 104  | 152.5  | 177.5   | 117  | 165.5  | 190.5   |

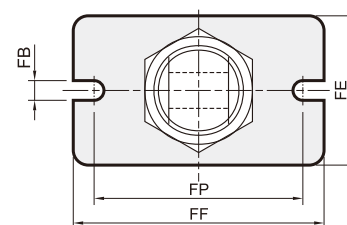
## Mounting accessories / Double acting

FA / FB

| Code<br>Tube I.D. | A  | FB  | FE | FF | FP | FT  | KK       | W    | ZC   | ZF   |
|-------------------|----|-----|----|----|----|-----|----------|------|------|------|
| 8                 | 12 | 4.5 | 22 | 40 | 30 | 3.2 | M4×0.7   | 12.8 | 74   | 65.2 |
| 10                | 12 | 4.5 | 22 | 40 | 30 | 3.2 | M4×0.7   | 12.8 | 74   | 65.2 |
| 12                | 16 | 5.5 | 26 | 52 | 40 | 3.2 | M6×1.0   | 18.8 | 89   | 75.2 |
| 16                | 16 | 5.5 | 26 | 52 | 40 | 3.2 | M6×1.0   | 18.8 | 94.5 | 79.7 |
| 20                | 20 | 6.6 | 38 | 64 | 50 | 4.5 | M8×1.25  | 19.5 | 112  | 96.5 |
| 25                | 22 | 6.6 | 38 | 64 | 50 | 4.5 | M10×1.25 | 23.5 | 117  | 99.5 |



MCMC- $\phi 12, \phi 16$



MCMC- $\phi 8, \phi 10, \phi 20, \phi 25$

