

238 AC Series Oil Buffer



HOB Heavy Oil Hydraulic Cylinder



MOB Light Oil Hydraulic Cylinder



Hydraulic Station

## Oil buffer

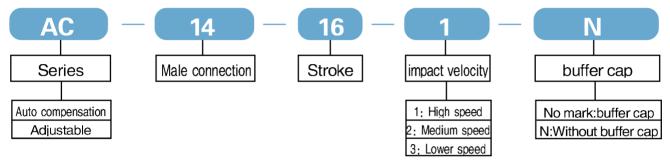








### How to order:



#### **Technical Parameter:**

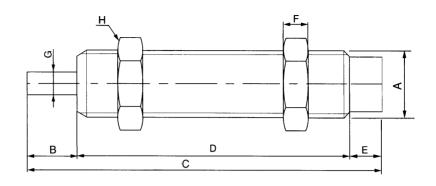
| lk a sa | Stroke | Max absorb energy | Absorb energy per | Max effe | ective we | ight(kg) | Highest r | amming Spe | ed(m/s) | Ambient         |
|---------|--------|-------------------|-------------------|----------|-----------|----------|-----------|------------|---------|-----------------|
| Item    | (mm)   | (Nm)              | hour(Nm)          | 1        | 2         | 3        | 1         | 2          | 3       | temperature(°C) |
| AC-0806 | 6      | 2                 | 1200              | 0.5      | 2         | 6        | 2         | 1          | 0.5     | -10~80          |
| AC-1005 | 5      | 3                 | 3600              | 1        | 3         | 7        | 3         | 1.5        | 0.8     | -10~80          |
| AC-1008 | 8      | 4                 | 5000              | 2        | 4         | 9        | 3         | 1.5        | 0.8     | -10~80          |
| AC-1210 | 10     | 5                 | 10000             | 5        | 10        | 30       | 2         | 1.5        | 0.8     | -10~80          |
| AC-1412 | 12     | 15                | 30000             | 8        | 50        | 100      | 3         | 1.5        | 0.8     | -10~80          |
| AC-1416 | 16     | 20                | 35000             | 10       | 70        | 150      | 3         | 1.5        | 0.8     | -10~80          |
| AC-2020 | 20     | 40                | 40000             | 30       | 200       | 700      | 3.5       | 2          | 1       | -10~80          |
| AC-2050 | 50     | 60                | 60000             | 60       | 400       | 1200     | 3.5       | 2          | 1       | -10~80          |
| AC-2525 | 25     | 80                | 70000             | 200      | 800       | 1500     | 4         | 2.5        | 1       | -10~80          |
| AC-2540 | 40     | 120               | 75000             | 300      | 1200      | 2000     | 4         | 2.5        | 1       | -10~80          |
| AC-3660 | 60     | 250               | 120000            | 400      | 1500      | 2400     | 4         | 2.5        | 1       | -10~80          |

|          | Stroke | Max absorb energy | Absorb energy per | Max effe | ective we | ight(kg) | Highest | ramming Spe | ed(m/s) | Ambient         |
|----------|--------|-------------------|-------------------|----------|-----------|----------|---------|-------------|---------|-----------------|
| Item     | (mm)   | (Nm)              | hour(Nm)          | 1        | 2         | 3        | 1       | 2           | 3       | temperature(°C) |
| AD-1410  | 10     | 20                | 25000             |          | 80        |          |         | 3           |         | -10~80          |
| AD-2016  | 16     | 25                | 30000             |          | 200       |          |         | 3.5         |         | -10~80          |
| AD-2525  | 25     | 85                | 70000             | 400      |           |          |         | 3.5         |         | -10~80          |
| AD-2540  | 40     | 100               | 80000             | 700      |           |          |         | 3.5         | -10~80  |                 |
| AD-3650  | 50     | 300               | 100000            | 1400     |           |          |         | 3           |         | -10~80          |
| AD-4225  | 25     | 260               | 125000            | 3000     |           |          | 3.5     |             | -10~80  |                 |
| AD-4250  | 50     | 500               | 150000            |          | 4000      |          |         | 4.5         |         | -10~80          |
| AD-4275  | 75     | 750               | 180000            |          | 6000      |          |         | 4.5         |         | -10~80          |
| AD-6450  | 50     | 12000             | 1500000           |          | 12727     |          |         | 1.5         |         | -10~80          |
| AD-64100 | 100    | 24000             | 2000000           | 18181    |           | 1.5      |         |             | -10~80  |                 |
| AD-64150 | 150    | 36000             | 2500000           | 23636    |           |          |         | 1.5         | -10~80  |                 |



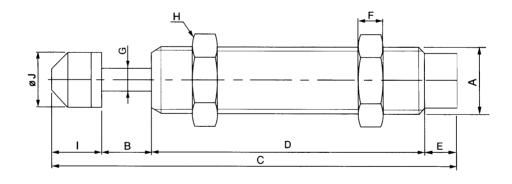
## **Dimension:**

#### Without buffer cap



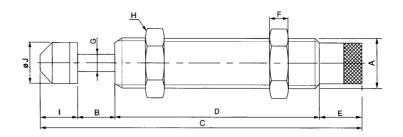
| Spec/sign | А         | В  | С    | D    | Е   | F | G   | Н    |
|-----------|-----------|----|------|------|-----|---|-----|------|
| AC-0806   | M8 × 1.0  | 6  | 44   | 33   | 5   | 3 | 2.8 | 11   |
| AC-1005   | M10 × 1.0 | 5  | 32.7 | 22.9 | 4.8 | 3 | 3   | 12.7 |
| AC-1008   | M10 × 1.0 | 8  | 51   | 38   | 5   | 3 | 3   | 12.7 |
| AC-1210   | M12 × 1.0 | 10 | 60   | 45.5 | 4.5 | 4 | 3   | 14   |
| AC-1412   | M14 × 1.5 | 12 | 88   | 67   | 9   | 6 | 4   | 19   |
| AC-1416   | M14 × 1.5 | 16 | 111  | 86   | 9   | 6 | 4   | 19   |

#### buffer cap

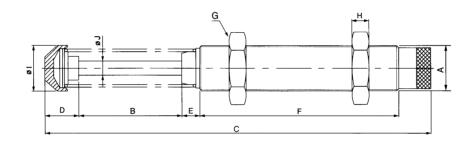


| Spec/sign | А         | В  | С     | D    | Е   | F  | G   | Н    | J    |
|-----------|-----------|----|-------|------|-----|----|-----|------|------|
| AC-0806   | M8 × 1.0  | 6  | 52.4  | 33   | 5   | 3  | 2.8 | 11   | 6.6  |
| AC-1005   | M10 × 1.0 | 5  | 41.2  | 22.9 | 4.8 | 3  | 3   | 12.7 | 8.6  |
| AC-1008   | M10 × 1.0 | 8  | 59.5  | 38   | 5   | 3  | 3   | 12.7 | 8.6  |
| AC-1210   | M12 × 1.0 | 10 | 69.5  | 45.5 | 4.5 | 4  | 3   | 14   | 10.3 |
| AC-1412   | M14 × 1.5 | 12 | 102.5 | 67   | 9   | 6  | 4   | 19   | 12   |
| AC-1416   | M14 × 1.5 | 16 | 125.5 | 86   | 9   | 6  | 4   | 19   | 12   |
| AC-2020   | M20 × 1.5 | 20 | 146.5 | 101  | 9   | 8  | 6   | 26   | 18   |
| AC-2050   | M20 × 1.5 | 50 | 233.5 | 158  | 9   | 8  | 6   | 26   | 18   |
| AC-2525   | M25 × 1.5 | 25 | 154.3 | 101  | 10  | 10 | 8   | 32   | 22   |
| AC-2540   | M25 × 1.5 | 40 | 208.3 | 127  | 10  | 10 | 8   | 32   | 22   |
| AC-3660   | M36 × 1.5 | 60 | 243   | 134  | 11  | 15 | 10  | 46   | 35   |

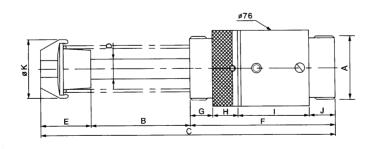
### Without buffer cap



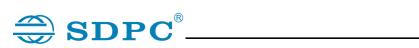
| Spec/sign | А         | В  | С     | D   | Е    | F  | G | Η  | 1    | J  |
|-----------|-----------|----|-------|-----|------|----|---|----|------|----|
| AD-1410   | M14 × 1.5 | 10 | 113.5 | 73  | 16   | 6  | 4 | 19 | 14.5 | 12 |
| AD-2016   | M20 × 1.5 | 16 | 149.5 | 101 | 16   | 8  | 6 | 26 | 16.5 | 18 |
| AD-2525   | M25 × 1.5 | 25 | 161.8 | 101 | 17.5 | 10 | 8 | 32 | 18.3 | 22 |
| AD-2540   | M25 × 1.5 | 40 | 215.8 | 127 | 17.5 | 10 | 8 | 32 | 31.3 | 22 |



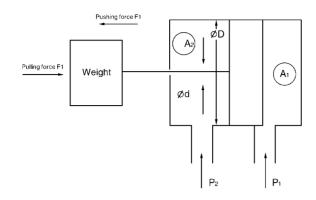
| Spec/sign | А         | В  | С     | D  | Е  | F     | G  | Η  | 1    | J  |
|-----------|-----------|----|-------|----|----|-------|----|----|------|----|
| AD-3650   | M36 × 1.5 | 50 | 242   | 21 | 17 | 146   | 46 | 15 | 35   | 10 |
| AD-4225   | M42 × 1.5 | 25 | 186.5 | 34 | 26 | 104.5 | 50 | 15 | 44.5 | 12 |
| AD-4250   | M42 × 1.5 | 50 | 241   | 34 | 26 | 134   | 50 | 15 | 44.5 | 12 |
| AD-4275   | M42 × 1.5 | 75 | 301.5 | 39 | 26 | 164.5 | 50 | 15 | 44.5 | 12 |



| Spec/sign | А  | В   | С     | D  | Е    | F   | G  | Ι  | _   | J  | K  |
|-----------|--|-----|-------|----|------|-----|----|----|-----|----|----|
| AD-6450   | 2 <sup>1</sup> / <sub>2</sub> -UNF(63.5) | 50  | 247.8 | 20 | 51.8 | 146 | 23 | 20 | 77  | 26 | 59 |
| AD-64100  | 2 <sup>1</sup> /2-UNF(63.5)              | 100 | 347.8 | 20 | 51.8 | 196 | 23 | 20 | 127 | 26 | 59 |
| AD-64150  | 2 <sup>1</sup> / <sub>2</sub> -UNF(63.5) | 150 | 467.8 | 20 | 61.8 | 256 | 23 | 20 | 187 | 26 | 59 |



## Oil Hydraulic Cylinder Theoretical Force Output Form:



Pushing force F1=A1  $\times$  P1  $\times$   $\beta$ 

Pulling force F2=A2  $\times$  P2  $\times$   $\beta$ 

A1: Side piston compression area for push (cm $^2$ ) A1= $\pi$ /4D2=0.785D2

A2: Side piston compression area for Pull (cm<sup>2</sup>)  $A2=\pi/4$ (  $D^2-d^2$ )=0.785D2

D: Hydraulic cylinder inside diameter, namely piston diameter (cm)

d: Piston rod diameter (cm)

P1: Side action pressure for push (kgf/cm<sup>2</sup>)

P2: Side action pressure for pull (kgf/cm<sup>3</sup>)

β: Load rate

1. Hydraulic cylinder actual output lower than theoretical force outpu.

2.Load rate B value, when the inertial force small take 80%, others 60%.

| Hydraulic  | compression          | Rod diameter of       | Rod srew thread of | Compression                  | Velocity | 70kg             | f/cm <sup>2</sup> | 70kg             | f/cm <sup>2</sup> | 70kg             | f/cm <sup>2</sup> |
|--|----------------------|-----------------------|--------------------|------------------------------|----------|------------------|-------------------|------------------|-------------------|------------------|-------------------|
| cyllinder inside<br>diameter                     | areaforpush<br>(cm²) | hydraulic<br>cylinder | hydraulic cylinder | areaforpu <b>ll</b><br>(om²) | ratir    | Pulling force F2 | Pulling force Fi  | Pulling force Fz | Pulling force Fi  | Pulling force Fz | Pulling force F1  |
| ∮ 30   | 7.07                 | 16                    | M14 × 1.5          | 5.06                         | 1.4      | 354              | 495               | 708              | 990               | 1063             | 1485              |
| <i>∮</i> 40                                      | 10.57                | 20                    | M16 × 1.5          | 9.43                         | 1.33     | 660              | 880               | 1302             | 1760              | 1980             | 2640              |
| y 40<br>   | 12.57                | 25                    | M22 × 1.5          | 7.66                         | 1.64     | 536              | 880               | 1072             | 1760              | 1608             | 2640              |
| ∮ 50   | 19.64                | 20                    | M16 × 1.5          | 16.5                         | 1.19     | 1150             | 1372              | 2310             | 2744              | 3465             | 4116              |
| <sup>3</sup> 50                                  | 19.64                | 30                    | M26 × 1.5          | 12.57                        | 1.56     | 880              | 1372              | 1760             | 2744              | 2460             | 4116              |
| ∮ 63   | 01.17                | 25                    | M22 × 1.5          | 26.26                        | 1.19     | 1838             | 2184              | 3676             | 4368              | 5514             | 6552              |
| <sup>3</sup> 63                                  | 31.17                | 35                    | M30 × 1.5          | 21.55                        | 1.45     | 1508             | 2184              | 3016             | 4368              | 4525             | 6552              |
| ∮ 80   | FO 07                | 30                    | M26 × 1.5          | 43.2                         | 1.16     | 3024             | 3521              | 6048             | 7042              | 9072             | 10563             |
| y 80<br>   | 50.27                | 40                    | M30 × 1.5          | 37.7                         | 1.33     | 2639             | 3521              | 5278             | 7042              | 7917             | 10563             |
| f 100  | 70 E4                | 35                    | M30 × 1.5          | 68.92                        | 1.14     | 4824             | 5498              | 9649             | 11000             | 14473            | 16493             |
| <i>y</i> 100                                     | 78.54                | 50                    | M40 × 2.0          | 58.92                        | 1.33     | 4124             | 5498              | 8248             | 11000             | 12373            | 16493             |
| 6 10E  | 100.70               | 50                    | M40 × 2.0          | 103.1                        | 1.19     | 7217             | 8590              | 14434            | 17180             | 21651            | 25770             |
| J 125  | 122.72               | 60                    | M50 × 2.0          | 94.46                        | 1.3      | 6612             | 8590              | 13224            | 17180             | 19836            | 25770             |
| б <b>1</b> БО                                    | 176 70               | 60                    | M50 × 2.0          | 148.46                       | 1.19     | 10392            | 12369             | 20784            | 24738             | 31176            | 37107             |
| <sup>3</sup> 150                                 | 176.72               | 80                    | M70 × 2.0          | 126.48                       | 1.4      | 8853             | 12369             | 17707            | 24738             | 26560            | 37107             |
| £ 100  | 054.47               | 80                    | M70 × 2.0          | 204.23                       | 1.25     | 14296            | 17813             | 28592            | 35626             | 42888            | 53439             |
| <sup>3</sup> 180                                 | 254.47               | 100                   | M90 × 2.0          | 175.97                       | 1.45     | 12318            | 17813             | 24636            | 35626             | 36954            | 43439             |
| £ 000  | 01410                | 80                    | M70 × 2.0          | 263.92                       | 1.19     | 18474            | 21991             | 36948            | 43982             | 55423            | 65974             |
| y 200<br>  | 314.16               | 100                   | M90 × 2.0          | 235.66                       | 1.33     | 16496            | 21991             | 32992            | 43982             | 49488            | 65974             |
| б OFO  | 400.07               | 100                   | M90 × 2.0          | 412.37                       | 1.19     | 28866            | 34360             | 57732            | 68723             | 86598            | 103083            |
| \$ 125 12<br>\$ 150 17<br>\$ 180 25<br>\$ 200 31 | 490.87               | 125                   | M100 × 3.0         | 368.16                       | 1.33     | 25771            | 34360             | 51542            | 68723             | 77313            | 103083            |



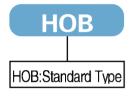
## Heavy Oil Hydraulic Cylinder

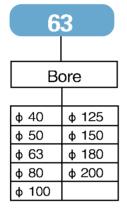
#### **Technical Parameter:**

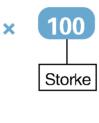
| Hydraulic cylinder inside diameter(mm)         | 40     | 50         | 63        | 80         | 100         | 125      | 150       | 180     | 200 |  |
|--|--------|------------|-----------|------------|-------------|----------|-----------|---------|-----|--|
| Fluid  |        | ę          | Standa    | ırd hyc    | Iraulic     | press    | ure oil   |         |     |  |
| Material of steel Tube                         | (      | Carbon ste | el pipe/C | Galvanized | d iron pipe | e/AL Tub | ore A6063 | 3 TDS-T | 5   |  |
| Operating Pressure range (Mpa)                 |        |            |           | 0          | .3~1.4      |          |           |         |     |  |
| Ambient temperature (°C)                       | -10~60 |            |           |            |             |          |           |         |     |  |
| The range of speed (mm/sec)                    |        |            |           | 8          | 3~300       |          |           |         |     |  |
| Cushion Stroke (mm)                            | 25     | 25         | 25        | 30         | 35          | 40       | 45        | 50      | 55  |  |
| Standard Piston Length (PM)                    | 30     | 35         | 35        | 50         | 60          | 70       | 8         | 70      | 70  |  |
| Piston Length for stroke from 1501-2500mm (PM) | 60     | 70         | 70        | 80         | 100         | 100      | 100       | 140     | 140 |  |
| Piston Length for stroke from 2501-4000mm (PM) | 120    | 140        | 140       | 150        | 180         | 180      | 180       | 200     | 200 |  |

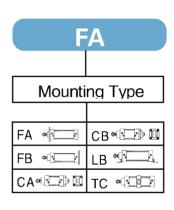


#### How to order:

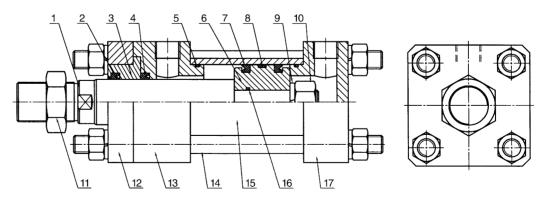






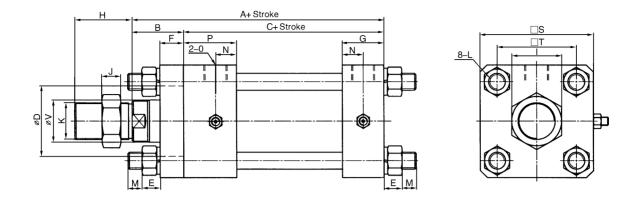


## **Inner Structure Drawing:**



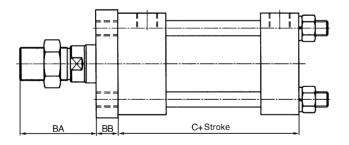
|   | NO | Part name            | Qty | NO | Part name      | Qty | NO | Part name    | Qty | NO | Part name | Qty |
|---|----|----------------------|-----|----|----------------|-----|----|--------------|-----|----|-----------|-----|
|   | 1  | Piston rod           | 1   | 6  | Piston         | 1   | 11 | Rod nut      | 1   | 16 | O-ring    | 1   |
|   | 2  | Dustproof ring       | 1   | 7  | Piston packing | 2   | 12 | Flange board | 1   | 17 | Rearcover | 1   |
|   | 3  | Coppercover          | 1   | 8  | Guard seals    | 1   | 13 | Front cover  | 1   |    |           |     |
| Ī | 4  | Rod pa <b>cki</b> ng | 1   | 9  | Spring washer  | 1   | 14 | Rod          | 4   |    |           |     |
|   | 5  | O-ring               | 2   | 10 | Nut            | 1   | 15 | Tube         | 1   |    |           |     |

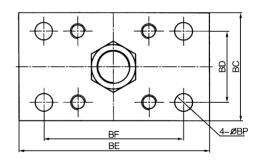
# **Basic Type**



| symbol/bore | Α   | В  | С   | D   | Е    | F  | G  | Н   | I   | J  | K         | L            | М  | N     | 0    | Р  | S   | Т   | V   |
|-------------|-----|----|-----|-----|------|----|----|-----|-----|----|-----------|--------------|----|-------|------|----|-----|-----|-----|
| 40          | 148 | 37 | 111 | 40  | 10.5 | 17 | 28 | 40  | 32  | 13 | M22 × 1.5 | M10 × 1.25   | 10 | 13    | G3/8 | 33 | 65  | 45  | 25  |
| 50          | 160 | 37 | 123 | 50  | 13   | 17 | 30 | 40  | 35  | 13 | M26 × 1.5 | M12 × 1.25   | 10 | 15    | G3/8 | 38 | 80  | 56  | 30  |
| 63          | 160 | 37 | 123 | 50  | 14.5 | 17 | 30 | 45  | 41  | 13 | M30 × 1.5 | M14 × 1.25   | 10 | 15    | G3/8 | 38 | 90  | 65  | 35  |
| 80          | 188 | 40 | 148 | 60  | 17   | 20 | 35 | 45  | 41  | 13 | M30 × 1.5 | M16 × 1.25   | 10 | 16    | G1/2 | 38 | 110 | 80  | 40  |
| 100         | 213 | 45 | 168 | 80  | 19.5 | 20 | 37 | 55  | 55  | 15 | M40 × 2   | M18 × 1.5    | 10 | 16.75 | G1/2 | 41 | 131 | 95  | 50  |
| 125         | 269 | 65 | 204 | 90  | 23.5 | 30 | 47 | 70  | 65  | 15 | M50 × 2   | M22 × 1.5    | 10 | 21.5  | G3/4 | 57 | 162 | 122 | 60  |
| 150         | 265 | 65 | 200 | 110 | 31   | 30 | 50 | 80  | 90  | 20 | M70 × 2   | 1" -8NUC     | 15 | 22.5  | G3/4 | 60 | 195 | 144 | 80  |
| 180         | 315 | 75 | 240 | 135 | 39   | 40 | 55 | 100 | 110 | 20 | M90 × 2   | 1.1/4" -8NUC | 20 | 26    | G1   | 65 | 235 | 175 | 100 |
| 200         | 325 | 80 | 245 | 135 | 39   | 40 | 60 | 100 | 110 | 20 | M90 × 2   | 1.1/4" -8NUC | 20 | 27.5  | G1   | 65 | 262 | 193 | 100 |

## **FA Dimension**

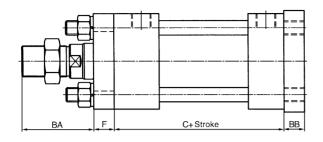


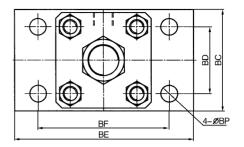


| symbol/bore | С   | ВА  | BB | BC  | BD  | BE  | BF  | BP |
|-------------|-----|-----|----|-----|-----|-----|-----|----|
| 40          | 111 | 60  | 17 | 75  | 50  | 115 | 93  | 12 |
| 50          | 123 | 60  | 17 | 85  | 56  | 150 | 110 | 14 |
| 63          | 123 | 45  | 17 | 95  | 68  | 155 | 126 | 14 |
| 80          | 148 | 45  | 20 | 120 | 75  | 190 | 152 | 18 |
| 100         | 168 | 55  | 20 | 140 | 100 | 220 | 180 | 20 |
| 125         | 204 | 70  | 30 | 170 | 122 | 280 | 222 | 24 |
| 150         | 200 | 80  | 30 | 206 | 155 | 310 | 260 | 28 |
| 180         | 240 | 100 | 40 | 250 | 188 | 375 | 315 | 35 |
| 200         | 245 | 100 | 40 | 272 | 207 | 425 | 355 | 35 |



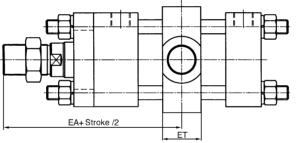
### **FB Dimension**

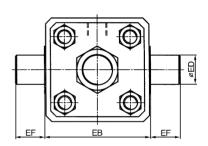




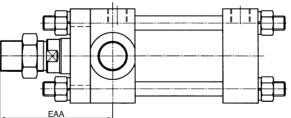
| symbol/bore | С   | F  | ВА  | BB | BC  | BD  | BE  | BF  | BP |
|-------------|-----|----|-----|----|-----|-----|-----|-----|----|
| 40          | 111 | 17 | 60  | 17 | 75  | 50  | 115 | 93  | 12 |
| 50          | 123 | 17 | 60  | 17 | 85  | 56  | 150 | 110 | 14 |
| 63          | 123 | 17 | 45  | 17 | 95  | 68  | 155 | 126 | 14 |
| 80          | 148 | 20 | 45  | 20 | 120 | 75  | 190 | 152 | 18 |
| 100         | 168 | 20 | 55  | 20 | 140 | 100 | 220 | 180 | 20 |
| 125         | 204 | 30 | 70  | 30 | 170 | 122 | 280 | 222 | 24 |
| 150         | 200 | 30 | 80  | 30 | 206 | 155 | 310 | 260 | 28 |
| 180         | 240 | 40 | 100 | 40 | 250 | 188 | 375 | 315 | 35 |
| 200         | 245 | 40 | 100 | 40 | 272 | 207 | 425 | 355 | 35 |

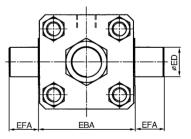
## **TC Dimension**





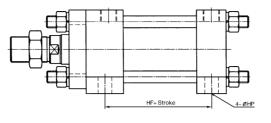
### **TA Dimension**

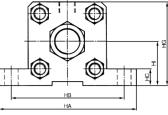




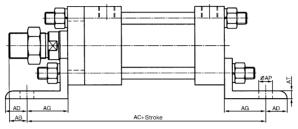
| symbol/bore | EA    | EB  | ED | EF | ET  | EAA  | EBA | EFA |
|-------------|-------|-----|----|----|-----|------|-----|-----|
| 40          | 95    | 75  | 20 | 20 | 28  | ı    | _   | _   |
| 50          | 102.5 | 90  | 25 | 25 | 33  | 53.5 | 69  | 20  |
| 63          | 102.5 | 102 | 32 | 32 | 40  | 56   | 84  | 25  |
| 80          | 115.5 | 120 | 32 | 32 | 43  | 56   | 94  | 30  |
| 100         | 131   | 140 | 40 | 40 | 53  | 59   | 114 | 30  |
| 125         | 172   | 175 | 50 | 50 | 58  | 65.5 | 135 | 35  |
| 150         | 170   | 206 | 60 | 60 | 73  | 93.5 | 168 | 45  |
| 180         | 200   | 243 | 80 | 80 | 98  | 95   | 200 | 50  |
| 200         | 205   | 272 | 90 | 90 | 108 | -    | _   | _   |

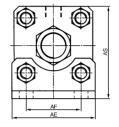
#### **LA Dimension**





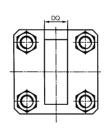
### **LB Dimension**

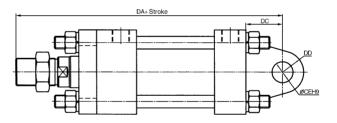




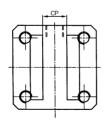
| symbol/bore | AB   | AC  | AD   | AE  | AF  | AG   | AP | AS    | AT | НА  | НВ  | НС | HF    | HG    | н   | HP |
|-------------|------|-----|------|-----|-----|------|----|-------|----|-----|-----|----|-------|-------|-----|----|
| 40          | 22.5 | 203 | 12.5 | 68  | 45  | 37.5 | 11 | 78.5  | 6  | 112 | 90  | 14 | 80.5  | 69.5  | 37  | 12 |
| 50          | 18   | 224 | 22   | 85  | 56  | 42   | 14 | 94    | 8  | 140 | 115 | 17 | 89    | 85    | 45  | 14 |
| 63          | 21   | 228 | 22   | 95  | 62  | 44   | 16 | 102   | 8  | 156 | 128 | 19 | 89    | 95    | 50  | 14 |
| 80          | 2    | 29  | 27   | 120 | 80  | 63   | 18 | 131   | 13 | 184 | 152 | 25 | 111.5 | 115   | 60  | 18 |
| 100         | 14   | 320 | 24   | 140 | 100 | 66   | 20 | 158.5 | 15 | 210 | 178 | 27 | 129   | 135.5 | 70  | 21 |
| 125         | 25   | 394 | 30   | 169 | 122 | 80   | 24 | 195   | 15 | 280 | 230 | 30 | 152   | 171   | 90  | 24 |
| 150         | 35   | 390 | 30   | 200 | 144 | 80   | 28 | 220   | 20 | 325 | 270 | 35 | 145   | 208   | 113 | 28 |
| 180         | 45   | 460 | 40   | 240 | 175 | 90   | 35 | 267.5 | 20 | 395 | 330 | 45 | 180   | 260.5 | 143 | 35 |
| 200         | 45   | 475 | 54   | 265 | 193 | 95   | 35 | 301   | 25 | 430 | 360 | 50 | 182.5 | 292   | 161 | 35 |

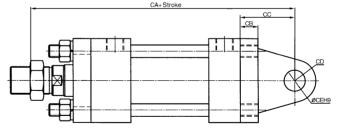
## **CA Dimension**





### **CB Dimension**





| symbol/bore | DA  | DC  | DD | ΦDE | DQ | CA  | CC  | СВ | CD | ФСЕ | CP |
|-------------|-----|-----|----|-----|----|-----|-----|----|----|-----|----|
| 40          | 213 | 25  | 15 | 16  | 22 | 230 | 42  | 17 | 15 | 16  | 23 |
| 50          | 235 | 35  | 20 | 20  | 22 | 252 | 52  | 17 | 20 | 20  | 23 |
| 63          | 250 | 45  | 25 | 25  | 30 | 267 | 62  | 17 | 25 | 25  | 31 |
| 80          | 283 | 50  | 30 | 30  | 35 | 303 | 70  | 20 | 30 | 30  | 36 |
| 100         | 328 | 60  | 35 | 35  | 40 | 348 | 80  | 20 | 35 | 35  | 41 |
| 125         | 409 | 70  | 50 | 50  | 50 | 439 | 100 | 30 | 50 | 50  | 56 |
| 150         | 425 | 80  | 60 | 60  | 60 | 455 | 110 | 30 | 60 | 60  | 61 |
| 180         | 515 | 100 | 80 | 80  | 80 | 555 | 140 | 40 | 80 | 80  | 81 |
| 200         | 535 | 110 | 90 | 90  | 90 | 575 | 150 | 40 | 90 | 90  | 91 |



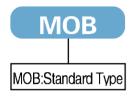
## Light Oil Hydraulic Cylinder

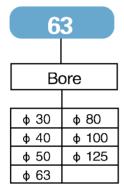
#### **Technical Parameter:**

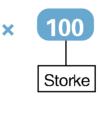
| Hydraulic cylinder inside diameter(mm)         | 30  | 40   | 50       | ස         | 80       | 100 | 125 |  |  |  |  |
|--|-----|--|----------|-----------|----------|-----|-----|--|--|--|--|
| Fluid  |     | Star   | ndard hy | draulic p | oressure | oil |     |  |  |  |  |
| Material of steel Tube                         | Car | Carbon steel pipe/Galvanized iron pipe/AL Tubre A6063 TDS-T5 |          |           |          |     |     |  |  |  |  |
| Operating Pressure range (Mpa)                 |     |  | ı        | 0.3~0.7   |          |     |     |  |  |  |  |
| Ambient temperature (℃)                        |     |  |          | -10~60    |          |     |     |  |  |  |  |
| The range of speed (mm/sec)                    |     |  |          | 8~300     |          |     |     |  |  |  |  |
| Standard Piston Length (PM)                    | 30  | 30   | 30       | 30        | 35       | 50  | 50  |  |  |  |  |
| Piston Length for stroke from 1501-2500mm (PM) | 60  | 60   | 60       | 60        | 70       | 100 | 100 |  |  |  |  |
| Piston Length for stroke from 2501-4000mm (PM) | 120 | 120  | 120      | 120       | 140      | 150 | 150 |  |  |  |  |

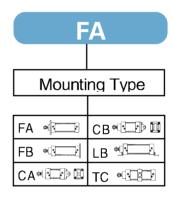


#### How to order:

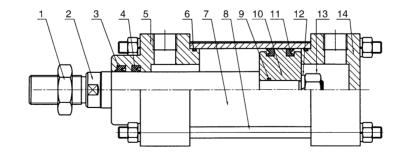








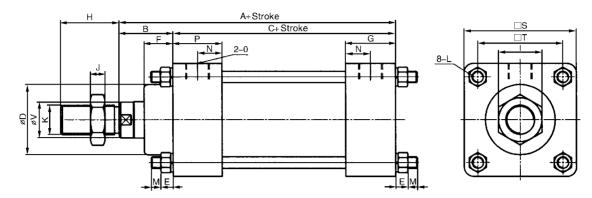
## **Inner Structure Drawing:**



| <b>(</b> |   |
|----------|---|
| 1-(      | 1 |
|          |   |
|          |   |

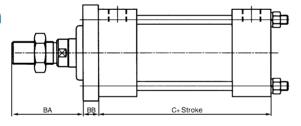
| NO | Part name     | Qty | NO | Part name | Qty | NO | Part name      | Qty |
|----|---------------|-----|----|-----------|-----|----|----------------|-----|
| 1  | Rod nut       | 1   | 6  | O-ring    | 2   | 11 | Piston packing | 2   |
| 2  | Piston rod    | 1   | 7  | Tube      | 1   | 12 | Spring washer  | 1   |
| 3  | Dustproofring | 1   | 8  | Rod       | 4   | 13 | Nut            | 1   |
| 4  | Rod packing   | 1   | 9  | O-ring    | 1   | 14 | Rearcover      | 1   |
| 5  | Front cover   | 1   | 10 | Piston    | 1   | 15 |                |     |

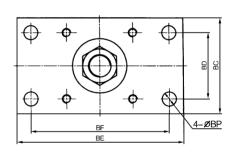
## **Basic Type**



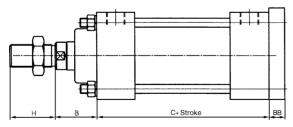
| symbol/bore | Α   | В  | С   | D  | Е    | F  | G  | Н  | I    | J  | K         | L          | М  | N    | 0    | Ρ  | S   | Т   | V  |
|-------------|-----|----|-----|----|------|----|----|----|------|----|-----------|------------|----|------|------|----|-----|-----|----|
| 30          | 128 | 28 | 100 | 30 | 8.5  | 15 | 25 | 28 | 22   | 8  | M14 × 1.5 | M8 × 1.25  | 8  | 12.5 | G1/4 | 25 | 50  | 34  | 16 |
| 40          | 147 | 37 | 110 | 40 | 8.5  | 20 | 30 | 28 | 23.5 | 8  | M16 × 1.5 | M8 × 1.25  | 8  | 15   | G3/8 | 30 | 64  | 45  | 20 |
| 50          | 145 | 37 | 108 | 45 | 10.5 | 20 | 28 | 28 | 23.5 | 8  | M16 × 1.5 | M10 × 1.25 | 10 | 14.5 | G3/8 | 30 | 70  | 50  | 20 |
| 63          | 162 | 40 | 122 | 55 | 10.5 | 20 | 31 | 40 | 32   | 13 | M22 × 1.5 | M10 × 1.25 | 10 | 15.5 | G3/8 | 31 | 85  | 60  | 25 |
| 80          | 179 | 52 | 127 | 62 | 13   | 32 | 35 | 40 | 35   | 13 | M26 × 1.5 | M12 × 1.5  | 10 | 18   | G1/2 | 37 | 106 | 74  | 30 |
| 100         | 206 | 52 | 154 | 78 | 14.5 | 32 | 37 | 45 | 41   | 13 | M30 × 1.5 | M14 × 1.5  | 10 | 18.5 | G1/2 | 37 | 122 | 89  | 35 |
| 125         | 216 | 56 | 160 | 85 | 17   | 31 | 41 | 55 | 55   | 15 | M40 × 2   | M16 × 1.5  | 10 | 20   | G1/2 | 40 | 147 | 110 | 50 |

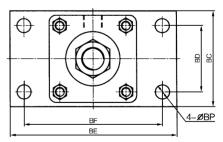
### **FA Dimension**





### **FB Dimension**

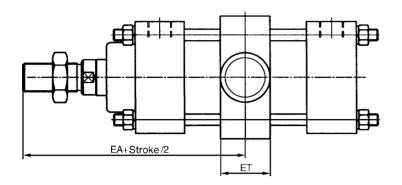


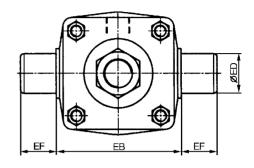


| symbol/bore | В  | С   | Н  | ВА | BB | BC  | BD  | BE  | BF  | BP |
|-------------|----|-----|----|----|----|-----|-----|-----|-----|----|
| 30          | 28 | 100 | 28 | 45 | 11 | 52  | 34  | 105 | 80  | 9  |
| 40          | 37 | 110 | 28 | 54 | 11 | 72  | 50  | 115 | 93  | 12 |
| 50          | 37 | 108 | 28 | 54 | 11 | 72  | 50  | 115 | 93  | 12 |
| 63          | 40 | 122 | 40 | 76 | 14 | 90  | 60  | 140 | 117 | 14 |
| 80          | 52 | 127 | 40 | 72 | 20 | 105 | 75  | 180 | 152 | 14 |
| 100         | 52 | 154 | 45 | 77 | 20 | 125 | 90  | 200 | 158 | 16 |
| 125         | 56 | 160 | 55 | 91 | 20 | 153 | 110 | 225 | 184 | 16 |



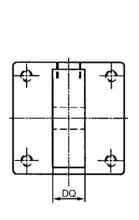
## **TC Dimension**

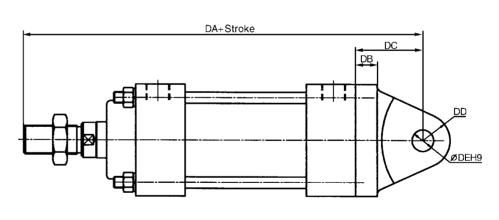




| symbol/bore | EA    | EB  | ED | EF | ET |
|-------------|-------|-----|----|----|----|
| 30          | 106   | 55  | 16 | 16 | 25 |
| 40          | 120   | 69  | 18 | 29 | 25 |
| 50          | 120   | 83  | 20 | 35 | 28 |
| 63          | 146   | 98  | 25 | 36 | 32 |
| 80          | 146.5 | 124 | 28 | 35 | 35 |
| 100         | 174   | 142 | 30 | 40 | 38 |
| 125         | 191   | 175 | 32 | 40 | 40 |

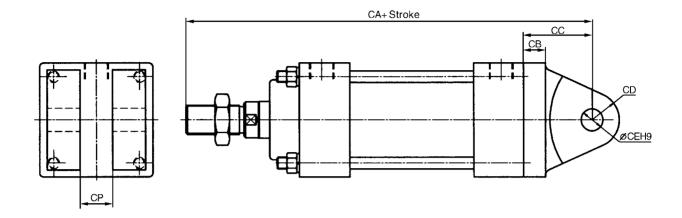
## **CA Dimension**





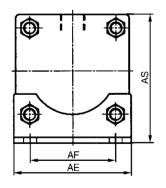
| symbol/bore | DA  | DB | DC | DD | Φ DE | DQ |
|-------------|-----|----|----|----|------|----|
| 30          | 187 | 11 | 31 | 10 | 10   | 16 |
| 40          | 211 | 11 | 36 | 13 | 12   | 22 |
| 50          | 209 | 12 | 36 | 13 | 12   | 22 |
| 63          | 252 | 19 | 50 | 24 | 20   | 30 |
| 80          | 287 | 18 | 68 | 30 | 30   | 30 |
| 100         | 324 | 18 | 73 | 35 | 35   | 35 |
| 125         | 344 | 18 | 73 | 35 | 35   | 35 |

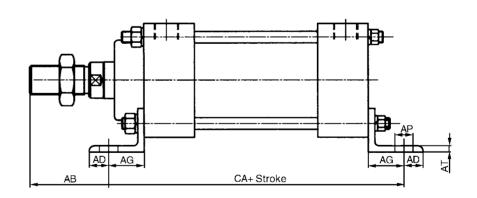
## **CB Dimension**



| symbol/bore | DA  | DB | DC | DD | ФСЕ | CP |
|-------------|-----|----|----|----|-----|----|
| 30          | 190 | 12 | 34 | 10 | 10  | 10 |
| 40          | 215 | 14 | 40 | 13 | 12  | 13 |
| 50          | 213 | 14 | 40 | 13 | 12  | 13 |
| 63          | 252 | 18 | 50 | 24 | 20  | 24 |
| 80          | 287 | 18 | 68 | 30 | 30  | 30 |
| 100         | 324 | 18 | 73 | 35 | 35  | 35 |
| 125         | 344 | 18 | 73 | 35 | 35  | 35 |

# **LB Dimension**





| symbol/bore | AB | AC  | AD | AE  | AF  | AG | AP | AS  | AT |
|-------------|----|-----|----|-----|-----|----|----|-----|----|
| 30          | 28 | 156 | 10 | 53  | 34  | 28 | 9  | 60  | 5  |
| 40          | 27 | 186 | 12 | 68  | 45  | 38 | 9  | 77  | 6  |
| 50          | 27 | 184 | 12 | 73  | 50  | 38 | 11 | 81  | 6  |
| 63          | 42 | 188 | 12 | 88  | 60  | 38 | 11 | 96  | 6  |
| 80          | 56 | 199 | 14 | 105 | 74  | 36 | 13 | 113 | 6  |
| 100         | 49 | 250 | 27 | 127 | 89  | 48 | 16 | 139 | 9  |
| 125         | 60 | 262 | 24 | 150 | 110 | 51 | 18 | 161 | 9  |



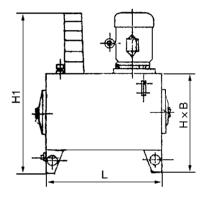
# Hydraulic Station



### **Product Introduction:**

The hydraulic station have good performance

- 1. According system to config the chip, or without chip.
- 2. Setup cooler, heater, Accumulator.
- 3. Electrical control devices can be set, but also run without the electrical control device.



#### **Dimension:**

| Oil box capacity(L) | L    | В    | Ι   |  |
|---------------------|------|------|-----|--|
| 25                  | 1    | -    | -   |  |
| 40                  | -    | -    | -   |  |
| 63                  | -    | -    | _   |  |
| 100                 | 700  | 500  | 520 |  |
| 160                 | 800  | 600  | 600 |  |
| 250                 | 900  | 700  | 700 |  |
| 400                 | 1000 | 800  | 850 |  |
| 530                 | 1200 | 900  | 930 |  |
| 800                 | 1300 | 1000 | 970 |  |