

# 标准液压缸

## Standard Hydraulic Cylinder

### TKP140H(Ø32~Ø250) Series

Symbol 图形符号



#### Features(特征)

- Standard tie rod type hydraulic cylinder.
- High performance cushion to reduce shock.
- Various mounting styles available.
- 拉杆式标准液压缸
- 高性能缓冲，减少活塞停止时的冲击
- 提供多种安装方式

#### Common Specification (共同规格)

| Type(类型)                             | Standard Type(标准型)  |   | Auto Switch Attached Type(带磁性开关型)   |   |
|--------------------------------------|---|---|---|---|
|                                      | C (标准型活塞杆)  | B (重型活塞杆)   | C (标准型活塞杆)  | B (重型活塞杆)   |
| Bore(缸径)                             | Ø32, Ø40, Ø50, Ø63, Ø100, Ø125, Ø140, Ø150, Ø160, Ø180, Ø200, Ø250  |   | Ø32, Ø40, Ø50, Ø63, Ø100  |   |
| Operating Pressure(使用压力)             | 70kgf/cm <sup>2</sup> (7.1Mpa)  | 140kgf/cm <sup>2</sup> (14.3Mpa)  | 70kgf/cm <sup>2</sup> (7.1Mpa)  | 140kgf/cm <sup>2</sup> (14.3Mpa)  |
| Max. Operating Pressure(最大使用压力)      | 杆侧:90kgf/cm <sup>2</sup> (9.2Mpa)<br>无杆侧:110kgf/cm <sup>2</sup> (11.2Mpa)   | 杆侧:180kgf/cm <sup>2</sup> (18.4Mpa)<br>无杆侧:180kgf/cm <sup>2</sup> (18.4Mpa) | 杆侧:90kgf/cm <sup>2</sup> (9.2Mpa)<br>无杆侧:110kgf/cm <sup>2</sup> (11.2Mpa) | 杆侧:180kgf/cm <sup>2</sup> (18.4Mpa)<br>无杆侧:180kgf/cm <sup>2</sup> (18.4Mpa) |
| Proof Pressure(耐压力)                  | 105kgf/cm <sup>2</sup> (10.7Mpa)  | 210kgf/cm <sup>2</sup> (21.4Mpa)  | 105kgf/cm <sup>2</sup> (10.7Mpa)  | 210kgf/cm <sup>2</sup> (21.4Mpa)  |
| Min. Operating Pressure(最小使用压力)      | 杆侧:≤3kgf/cm <sup>2</sup> (0.31Mpa)    无杆侧: B Rods≤4.5kgf/cm <sup>2</sup> (0.46Mpa), C Rods≤4kgf/cm <sup>2</sup> (0.41Mpa) |   |   |   |
| Operating Piston Speed(活塞速度)         | Ø32~Ø63: 8~400mm/sec<br>Ø80~Ø125: 8~300mm/sec<br>Ø140~Ø250: 8~200mm/sec   |   | Ø32~Ø63: 8~400mm/sec<br>Ø80~Ø125: 8~300mm/sec                             |   |
| Ambient & Fluid Temperature(周围及流体温度) | -10~80°C  |   | -10~70°C  |   |
| Cushion(缓冲)                          | Metal Fitting Type(金属减压方式)  |   |   |   |
| Working Oil(液压油)                     | Petroleum-based Fluid(石油基液压油)   |   |   |   |
| Tolerance Of Thread(螺纹公差)            | KS Class 2(KS 2级)   |   |   |   |
| Tolerance Of Stroke(行程公差)            | ≤100mm <sup>+0.8</sup> <sub>0</sub>   | 101 ~ 250mm <sup>+1.0</sup> <sub>0</sub>                                    | 251 ~ 630mm <sup>+1.25</sup> <sub>0</sub>                                 | 631 ~ 1000mm <sup>+1.25</sup> <sub>0</sub>                                  |
| Tube Material(缸材质)                   | Carbon Steel For Machine Structural Use(机械结构用碳钢)  |   | Stainless Steel(不锈钢)  |   |

#### How To Order (型号表示方法)

|                         |                                  |                                    |                                 |
|-------------------------|----------------------------------|------------------------------------|---------------------------------|
| Nil(空) Single Rod(单活塞杆) | Nil(空) No Cushion(无缓冲)           | Nil(空) B(标准)                       | Nil(空) None(无)                  |
| W Double Rod(双活塞杆)      | B Cushions On Both Ends(两侧缓冲)    | A, C, D Refer To The Figure(请参考图形) | J Nylon Tarpaulin(尼龙防水帆布)(60°C) |
| Type 类型                 | R Cushion On The Rod Side(杆侧缓冲)  | Cushion Valve Position 缓冲阀位置       | K Neoprene(氯丁橡胶外层)(110°C)       |
|                         | H Cushion On The Head Side(后侧缓冲) |                                    | Gaiter Material 伸缩保护套材质         |

**TKP140H W SD 40 B - B 125 B A J I - RS2**

|   |                                     |   |  |                      |   |
|---|-------------------------------------|---|--|----------------------|---|
| Bore Size 缸径                                    | Rod Type 活塞杆                        | Stroke 行程   | Port Position 油口位置                               | Accessory 附件         | Auto Switch 磁性开关  |
| 32,40,50,63,80,100,125,140,150,,160,180,200,250 | B Heavy (重型活塞杆)<br>C Standard (标准型) | Bore(缸径) Max. Stroke(最大行程)<br>Ø32,40,50 1200<br>Ø63,80 1600<br>Ø100 1600<br>Ø125-250 2000 | Nil(空) A(标准)<br>B,C,D Refer To The Figure(请参考图形) | I I Type<br>Y Y Type | Nil(空) None (无磁性开关)<br>RS1 Switch 1EA(磁性开关1只)<br>RS2 Switch 2EA(磁性开关2只) |
| Mounting Style 安装方式                             |                                     |   |  |                      |   |
| SD Standard(标准)                                 |                                     |   |  |                      |   |
| LA Axial Angle Of Foot(切向脚架)                    |                                     |   |  |                      |   |
| LB Axial Foot(轴向脚架)                             |                                     |   |  |                      |   |
| FA Rod Side Rectangular Flange(杆侧正方形法兰)         |                                     |   |  |                      |   |
| FB Head Side Rectangular Flange(无杆侧正方形法兰)       |                                     |   |  |                      |   |
| FY Rod Side Rectangular Flange(杆侧正方形法兰)         |                                     |   |  |                      |   |
| FZ Head Side Rectangular Flange(无杆侧正方形法兰)       |                                     |   |  |                      |   |
| FC Rod Side Square Flange(杆侧长方形法兰)              |                                     |   |  |                      |   |
| FD Head Side Square Flange(无杆侧长方形法兰)            |                                     |   |  |                      |   |
| CA Single Clevis(单U)                            |                                     |   |  |                      |   |
| CB Double Clevis(双U)                            |                                     |   |  |                      |   |
| TC Center Trunnion(中央轴耳)                        |                                     |   |  |                      |   |
| TA Rod Side Trunnion(杆侧轴耳)                      |                                     |   |  |                      |   |

标准油口位置: A  
标准缓冲阀位置: B  
油口或缓冲阀位置变更时, 请在图上标示A, B, C, D为记号

※ Pressure for LB, FA, FB type are 70kgf/cm<sup>2</sup>.

# 标准液压缸

## Standard Hydraulic Cylinder

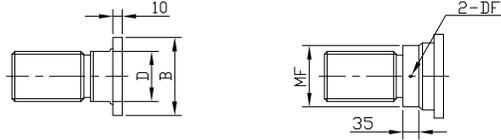
### TKP140H(Ø32~Ø250) Series

#### Dimensions(mm)(外形尺寸图(毫米))

##### Standard (SD)(标准型)

For 70 · 140kgf/cm<sup>2</sup>

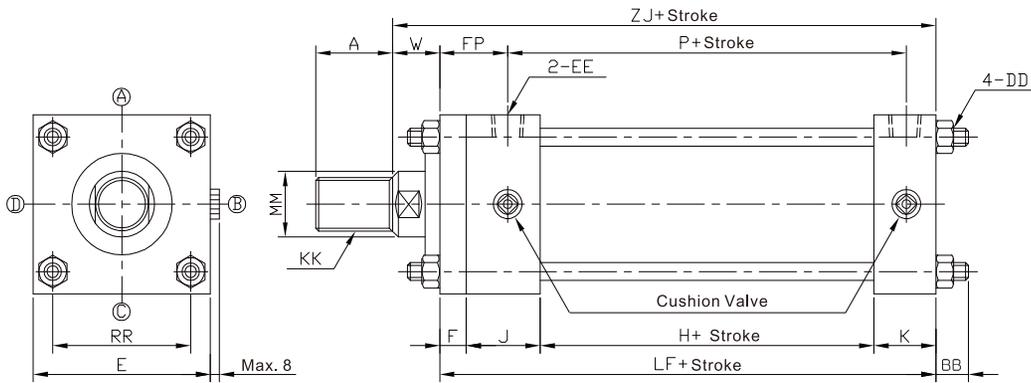
※ Shape varies depending on bore sizes.



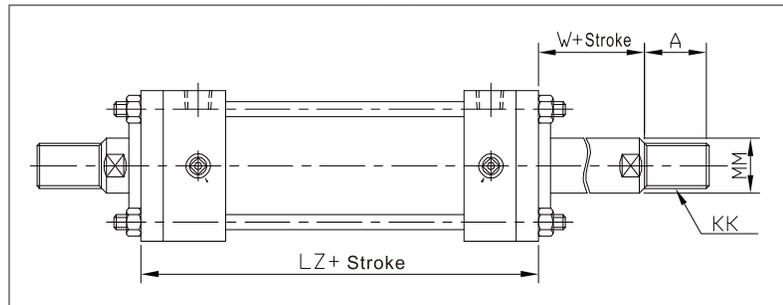
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat  
(for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



##### Double rod type(双活塞杆) (Ø40 ~ Ø160)



Cylinder cover fixing method according to stroke  
Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

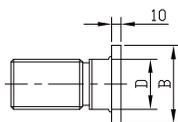
| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | BB | DD       | E    | EE          | F  | FP  | H   | J  | K  | LF  | LZ  | P   | RR  | W  | ZJ  |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|----|----------|------|-------------|----|-----|-----|----|----|-----|-----|-----|-----|----|-----|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |    |          |      |             |    |     |     |    |    |     |     |     |     |    |     |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | 15 | M10x1.25 | □65  | Rc(PT)3/8   | 11 | 38  | 64  | 40 | 26 | 141 | 166 | 90  | 45  | 30 | 171 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 15 | M10x1.25 | □75  | Rc(PT)1/2   | 13 | 42  | 68  | 44 | 30 | 155 | 182 | 98  | 52  | 30 | 185 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 17 | M12x1.5  | □90  | Rc(PT)1/2   | 15 | 46  | 72  | 46 | 30 | 163 | 194 | 102 | 63  | 35 | 198 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | 23 | M16x1.5  | □110 | Rc(PT)3/4   | 18 | 56  | 74  | 56 | 36 | 184 | 222 | 110 | 80  | 35 | 219 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 26 | M18x1.5  | □135 | Rc(PT)3/4   | 20 | 58  | 80  | 56 | 36 | 192 | 232 | 116 | 102 | 40 | 232 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 30 | M22x1.5  | □165 | Rc(PT)1     | 24 | 67  | 86  | 66 | 46 | 220 | 264 | 130 | 122 | 45 | 265 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | 35 | M24x1.5  | □185 | Rc(PT)1     | 26 | 69  | 96  | 64 | 44 | 230 | 276 | 138 | 138 | 50 | 280 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | 35 | M27x1.5  | □196 | Rc(PT)1     | 28 | 71  | 104 | 64 | 44 | 240 | 288 | 146 | 148 | 50 | 290 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | 35 | M27x1.5  | □210 | Rc(PT)1     | 31 | 74  | 110 | 69 | 49 | 253 | 304 | 156 | 160 | 55 | 308 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | 105  | 75 | M72X2   | Ø80  | 40 | M30x1.5  | □235 | Rc(PT)1 1/4 | 33 | 75  | 114 | 73 | 59 | 275 | -   | 172 | 182 | 55 | 330 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | 40 | M33x1.5  | □262 | Rc(PT)1 1/2 | 37 | 85  | 114 | 83 | 67 | 301 | -   | 184 | 200 | 55 | 356 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | 140  | -  | M100X2  | Ø112 | 50 | M42x1.5  | □325 | Rc(PT)2     | 46 | 106 | 126 | 97 | 77 | 346 | -   | 200 | 250 | 65 | 411 |

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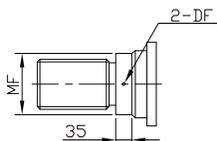
## Dimensions(mm)(外形尺寸图(毫米))

### Axial Angle of Foot (LA)(切向脚架型)

For 70 · 140kgf/cm<sup>2</sup> ※ Shape varies depending on bore sizes.

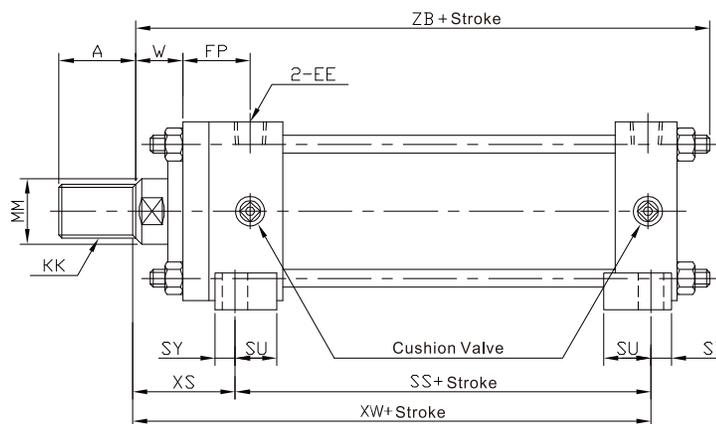
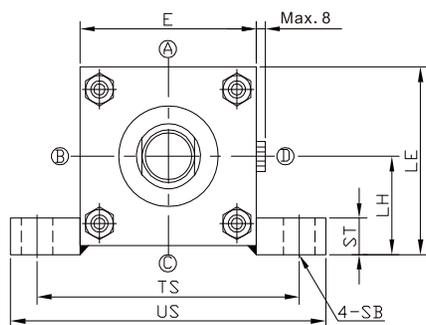


D:Width cross flat (for spanner)

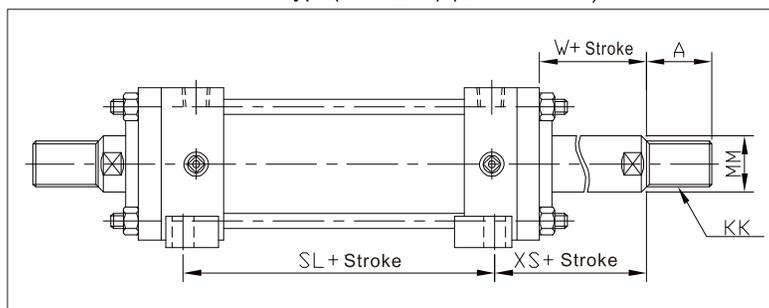


※ To the bore size of Ø100 a hole is placed with the width cross flat.

| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |



### Double rod type(双活塞杆) (Ø40 ~ Ø160)



※ For not shown dimensions, refer to SD type (standard type).

Cylinder cover fixing method according to stroke  
Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | E    | EE          | FP  | LE    | LH        | SB  | SL  | SS  | ST | SU | SY | TS  | US  | W  | XS  | XW  | ZB  |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|------|-------------|-----|-------|-----------|-----|-----|-----|----|----|----|-----|-----|----|-----|-----|-----|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |      |             |     |       |           |     |     |     |    |    |    |     |     |    |     |     |     |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | □65  | Rc(PT)3/8   | 38  | 70    | 37.5±0.15 | Ø11 | 112 | 98  | 14 | 31 | 13 | 95  | 118 | 30 | 57  | 155 | 182 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | □75  | Rc(PT)1/2   | 42  | 82.5  | 45±0.15   | Ø14 | 122 | 108 | 17 | 34 | 14 | 115 | 145 | 30 | 60  | 168 | 196 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | □90  | Rc(PT)1/2   | 46  | 95    | 50±0.15   | Ø18 | 122 | 106 | 19 | 32 | 18 | 132 | 165 | 35 | 71  | 177 | 211 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | □110 | Rc(PT)3/4   | 56  | 115   | 60±0.15   | Ø18 | 144 | 124 | 25 | 42 | 18 | 155 | 190 | 35 | 74  | 198 | 235 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | □135 | Rc(PT)3/4   | 58  | 138.5 | 71±0.15   | Ø22 | 142 | 122 | 27 | 38 | 22 | 190 | 230 | 40 | 85  | 207 | 250 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | □165 | Rc(PT)1     | 67  | 167.5 | 85±0.15   | Ø26 | 156 | 136 | 32 | 41 | 25 | 224 | 272 | 45 | 99  | 235 | 286 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | □185 | Rc(PT)1     | 69  | 187.5 | 95±0.15   | Ø26 | 164 | 144 | 35 | 41 | 25 | 250 | 300 | 50 | 106 | 250 | 302 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | □196 | Rc(PT)1     | 71  | 204   | 106±0.15  | Ø30 | 166 | 146 | 37 | 38 | 28 | 270 | 320 | 50 | 111 | 257 | 315 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | □210 | Rc(PT)1     | 74  | 217   | 112±0.15  | Ø33 | 170 | 150 | 42 | 40 | 31 | 285 | 345 | 55 | 122 | 272 | 333 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | □235 | Rc(PT)1 1/4 | 75  | 242.5 | 125±0.15  | Ø33 | -   | 172 | 47 | -  | 35 | 315 | 375 | 55 | 123 | 295 | 357 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | □262 | Rc(PT)1 1/2 | 85  | 271   | 140±0.15  | Ø36 | -   | 186 | 52 | -  | 39 | 355 | 425 | 55 | 131 | 317 | 385 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | □325 | Rc(PT)2     | 106 | 332.5 | 170±0.15  | Ø45 | -   | 206 | 57 | -  | 47 | 425 | 515 | 65 | 158 | 364 | 448 |

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## Standard Hydraulic Cylinder

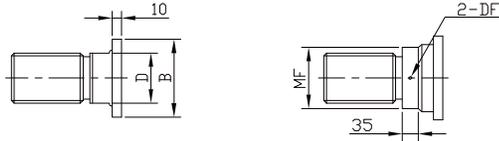
### TKP140H(Ø32~Ø250) Series

#### Dimensions(mm)(外形尺寸图(毫米))

#### Axial Foot (LB)(轴向脚架)

For 70kgf/cm<sup>2</sup>

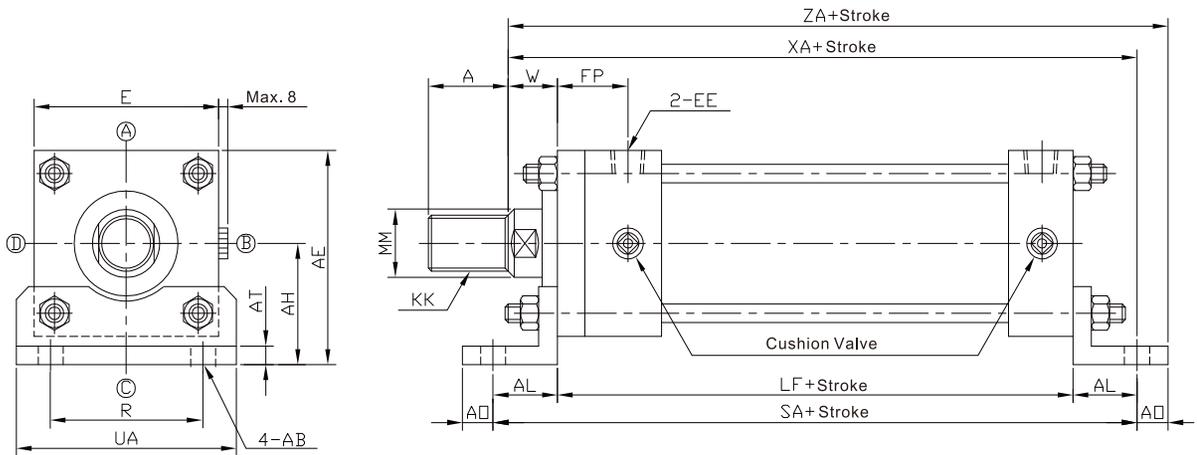
※ Shape varies depending on bore sizes.



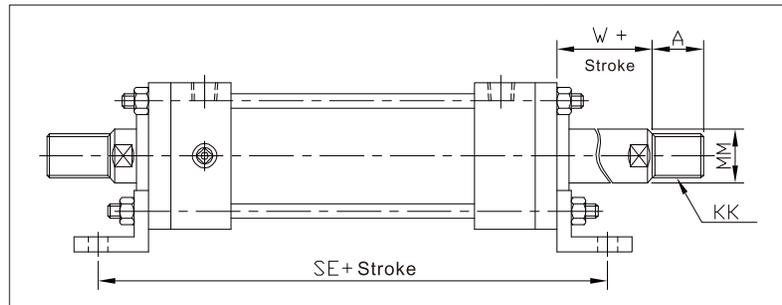
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat (for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



#### Double rod type(双活塞杆) (Ø40 ~ Ø160)



※ For not shown dimensions, refer to SD type (standard type).

Cylinder cover fixing method according to stroke  
Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         | Bore size (C type) |     |      |    |         | AB   | AE  | AH    | AL       | AO  | AT | E  | EE   | FP          | LF  | R   | SA  | SE  | UA  | W   | XA | ZA  |     |
|-----------|--------------------|------|----|---------|--------------------|-----|------|----|---------|------|-----|-------|----------|-----|----|----|------|-------------|-----|-----|-----|-----|-----|-----|----|-----|-----|
|           | A                  | B    | D  | KK      | MM                 | A   | B    | D  | KK      |      |     |       |          |     |    |    |      |             |     |     |     |     |     |     |    |     | MM  |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22                | 25  | Ø36  | 16 | M16X1.5 | Ø18  | Ø11 | 75.5  | 43±0.15  | 32  | 13 | 8  | □65  | Rc(PT)3/8   | 38  | 141 | 46  | 205 | 230 | 69  | 30 | 203 | 216 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28                | 30  | Ø40  | 20 | M20X1.5 | Ø22  | Ø14 | 87.5  | 50±0.15  | 35  | 15 | 8  | □75  | Rc(PT)1/2   | 42  | 155 | 58  | 225 | 252 | 85  | 30 | 220 | 235 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35                | 35  | Ø46  | 24 | M24X1.5 | Ø28  | Ø18 | 105   | 60±0.15  | 42  | 18 | 10 | □90  | Rc(PT)1/2   | 46  | 163 | 65  | 247 | 278 | 98  | 35 | 240 | 258 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45                | 45  | Ø55  | 31 | M30X1.5 | Ø35  | Ø18 | 127   | 72±0.15  | 50  | 20 | 12 | □110 | Rc(PT)3/4   | 56  | 184 | 87  | 284 | 322 | 118 | 35 | 269 | 289 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55                | 60  | Ø65  | 41 | M39X1.5 | Ø45  | Ø22 | 152.5 | 82±0.15  | 55  | 23 | 12 | □135 | Rc(PT)3/4   | 58  | 192 | 109 | 302 | 342 | 150 | 40 | 287 | 310 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70                | 75  | Ø80  | 50 | M48X1.5 | Ø55  | Ø26 | 187.5 | 105±0.15 | 66  | 29 | 15 | □165 | Rc(PT)1     | 67  | 220 | 130 | 352 | 396 | 175 | 45 | 331 | 360 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80                | 80  | Ø85  | 60 | M56X2   | Ø65  | Ø26 | 207.5 | 115±0.15 | 70  | 30 | 18 | □185 | Rc(PT)1     | 69  | 230 | 145 | 370 | 416 | 195 | 50 | 350 | 380 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85                | 85  | Ø90  | 60 | M60X2   | Ø65  | Ø30 | 221   | 123±0.15 | 75  | 30 | 18 | □196 | Rc(PT)1     | 71  | 240 | 155 | 390 | 438 | 210 | 50 | 365 | 395 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90                | 95  | Ø95  | 65 | M64X2   | Ø70  | Ø33 | 237   | 132±0.15 | 75  | 35 | 18 | □210 | Rc(PT)1     | 74  | 253 | 170 | 403 | 454 | 225 | 55 | 383 | 418 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100               | 110 | Ø105 | 75 | M72X2   | Ø80  | Ø33 | 265.5 | 148±0.15 | 85  | 40 | 20 | □235 | Rc(PT)1 1/4 | 75  | 275 | 185 | 445 | -   | 243 | 55 | 415 | 455 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112               | 120 | Ø115 | 85 | M80X2   | Ø90  | Ø36 | 296   | 165±0.15 | 98  | 40 | 25 | □262 | Rc(PT)1 1/2 | 85  | 301 | 206 | 497 | -   | 272 | 55 | 454 | 494 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140               | 150 | Ø140 | -  | M100X2  | Ø112 | Ø45 | 370.5 | 208±0.15 | 130 | 50 | 35 | □325 | Rc(PT)2     | 106 | 346 | 250 | 606 | -   | 335 | 65 | 541 | 591 |

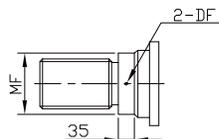
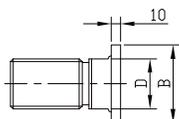
# 标准液压缸 Standard Hydraulic Cylinder TKP140H(Ø32~Ø250) Series

## Dimensions(mm)(外形尺寸图(毫米))

(杆侧正方形法兰)

For 70kgf/cm<sup>2</sup>

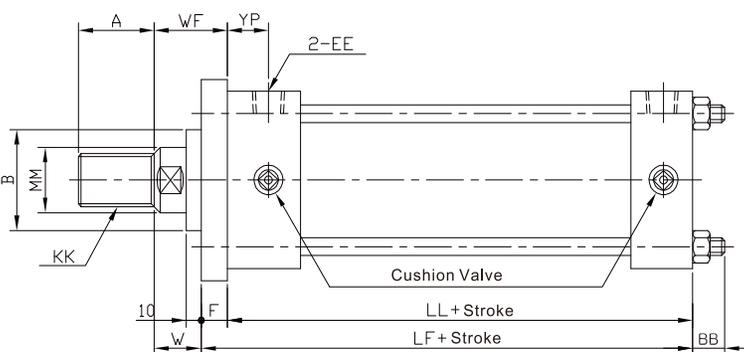
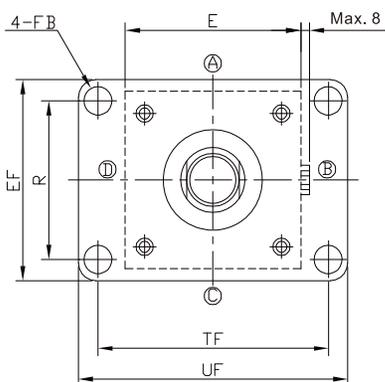
※ Shape varies depending on bore sizes.



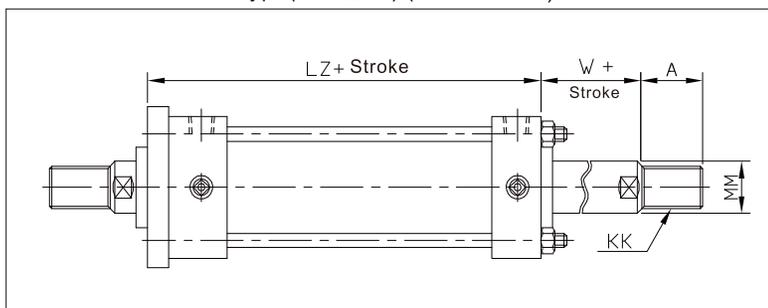
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat  
(for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



Double rod type(双活塞杆) (Ø40 ~ Ø160)



※ For not shown dimensions, refer to SD type (standard type).

Cylinder cover fixing method according to stroke  
Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |     |    |         |      | BB | E    | EE          | EF  | F  | FB  | LF  | LL  | LZ  | R   | TF  | UF  | W  | WF  | YP |
|-----------|--------------------|------|----|---------|------|--------------------|-----|----|---------|------|----|------|-------------|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|
|           | A                  | B    | D  | KK      | MM   | A                  | B   | D  | KK      | MM   |    |      |             |     |    |     |     |     |     |     |     |     |    |     |    |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36 | 16 | M16X1.5 | Ø18  | 15 | □65  | Rc(PT)3/8   | 69  | 11 | Ø11 | 141 | 130 | 166 | 46  | 95  | 118 | 30 | 41  | 27 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40 | 20 | M20X1.5 | Ø22  | 15 | □75  | Rc(PT)1/2   | 85  | 13 | Ø14 | 155 | 142 | 182 | 58  | 115 | 145 | 30 | 43  | 29 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46 | 24 | M24X1.5 | Ø28  | 17 | □90  | Rc(PT)1/2   | 98  | 15 | Ø18 | 163 | 148 | 194 | 65  | 132 | 165 | 35 | 50  | 31 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55 | 31 | M30X1.5 | Ø35  | 23 | □110 | Rc(PT)3/4   | 118 | 18 | Ø18 | 184 | 166 | 222 | 87  | 155 | 190 | 35 | 53  | 38 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65 | 41 | M39X1.5 | Ø45  | 26 | □135 | Rc(PT)3/4   | 150 | 20 | Ø22 | 192 | 172 | 232 | 109 | 190 | 230 | 40 | 60  | 38 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80 | 50 | M48X1.5 | Ø55  | 30 | □165 | Rc(PT)1     | 175 | 24 | Ø26 | 220 | 196 | 264 | 130 | 224 | 272 | 45 | 69  | 43 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85 | 60 | M56X2   | Ø65  | 35 | □185 | Rc(PT)1     | 195 | 26 | Ø26 | 230 | 204 | 276 | 145 | 250 | 300 | 50 | 76  | 43 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90 | 60 | M60X2   | Ø65  | 35 | □196 | Rc(PT)1     | 210 | 28 | Ø30 | 240 | 212 | 288 | 155 | 270 | 320 | 50 | 78  | 43 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95 | 65 | M64X2   | Ø70  | 35 | □210 | Rc(PT)1     | 225 | 31 | Ø33 | 253 | 222 | 304 | 170 | 285 | 345 | 55 | 86  | 43 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | 105 | 75 | M72X2   | Ø80  | 40 | □235 | Rc(PT)1 1/4 | 243 | 33 | Ø33 | 275 | 242 | -   | 185 | 315 | 375 | 55 | 88  | 42 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | 115 | 85 | M80X2   | Ø90  | 40 | □262 | Rc(PT)1 1/2 | 272 | 37 | Ø36 | 301 | 264 | -   | 206 | 355 | 425 | 55 | 92  | 48 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | 140 | -  | M100X2  | Ø112 | 50 | □325 | Rc(PT)2     | 335 | 46 | Ø45 | 346 | 300 | -   | 250 | 425 | 515 | 65 | 111 | 60 |

# 标准液压缸

## Standard Hydraulic Cylinder

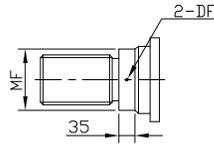
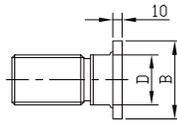
### TKP140H(Ø32~Ø250) Series

#### Dimensions(mm)(外形尺寸图(毫米))

#### Head Side Rectangular Flange (FB) (无杆侧正方形法兰)

For 70kgf/cm<sup>2</sup>

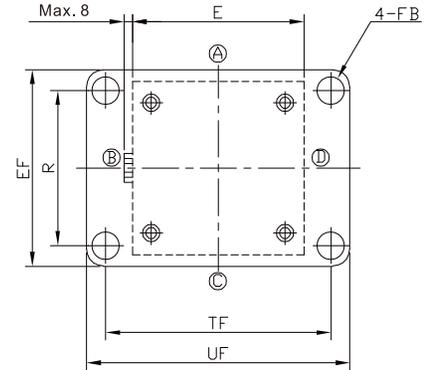
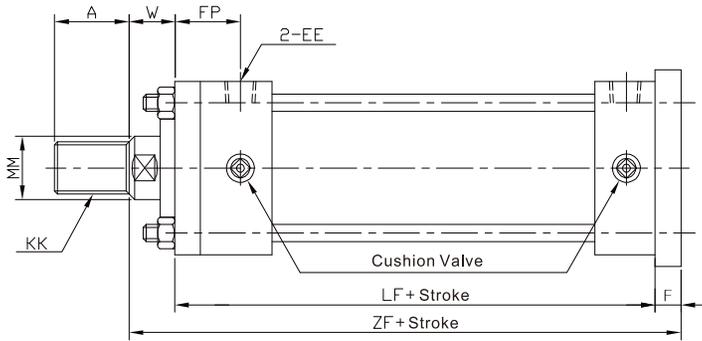
※ Shape varies depending on bore sizes.



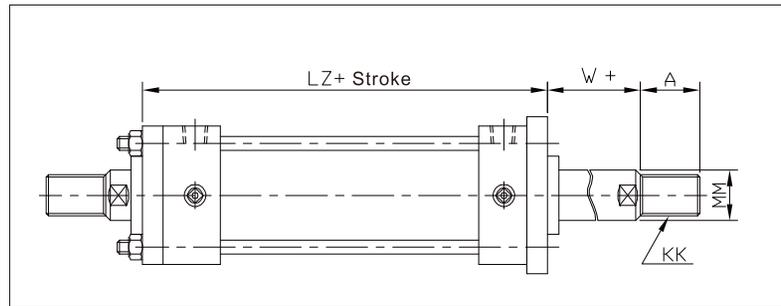
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat (for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



#### Double rod type(双活塞杆) (Ø40 ~ Ø160)



※ For not shown dimensions, refer to SD type (standard type).

Cylinder cover fixing method according to stroke

Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

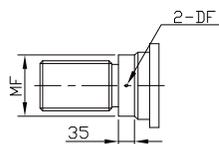
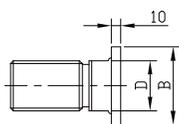
| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | E    | EE          | EF  | F  | FB  | FP  | LF  | LZ  | R   | TF  | UF  | W  | ZF  |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|------|-------------|-----|----|-----|-----|-----|-----|-----|-----|-----|----|-----|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |      |             |     |    |     |     |     |     |     |     |     |    |     |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | □65  | Rc(PT)3/8   | 69  | 11 | Ø11 | 38  | 141 | 166 | 46  | 95  | 118 | 30 | 182 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | □75  | Rc(PT)1/2   | 85  | 13 | Ø14 | 42  | 155 | 182 | 58  | 115 | 145 | 30 | 198 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | □90  | Rc(PT)1/2   | 98  | 15 | Ø18 | 46  | 163 | 194 | 65  | 132 | 165 | 35 | 213 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | □110 | Rc(PT)3/4   | 118 | 18 | Ø18 | 56  | 184 | 222 | 87  | 155 | 190 | 35 | 237 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | □135 | Rc(PT)3/4   | 150 | 20 | Ø22 | 58  | 192 | 232 | 109 | 190 | 230 | 40 | 252 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | □165 | Rc(PT)1     | 175 | 24 | Ø26 | 67  | 220 | 264 | 130 | 224 | 272 | 45 | 289 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | □185 | Rc(PT)1     | 195 | 26 | Ø26 | 69  | 230 | 276 | 145 | 250 | 300 | 50 | 306 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | □196 | Rc(PT)1     | 210 | 28 | Ø30 | 71  | 240 | 288 | 155 | 270 | 320 | 50 | 318 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | □210 | Rc(PT)1     | 225 | 31 | Ø33 | 74  | 253 | 304 | 170 | 285 | 345 | 55 | 339 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | □235 | Rc(PT)1 1/4 | 243 | 33 | Ø33 | 75  | 275 | -   | 185 | 315 | 375 | 55 | 363 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | □262 | Rc(PT)1 1/2 | 272 | 37 | Ø36 | 85  | 301 | -   | 206 | 355 | 425 | 55 | 393 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | □325 | Rc(PT)2     | 335 | 46 | Ø45 | 106 | 346 | -   | 250 | 425 | 515 | 65 | 457 |

# 标准液压缸 Standard Hydraulic Cylinder TKP140H(Ø32~Ø250) Series

## Dimensions(mm)(外形尺寸图(毫米))

### Rod Side Rectangular Flange (FB)(杆侧正方形法兰)

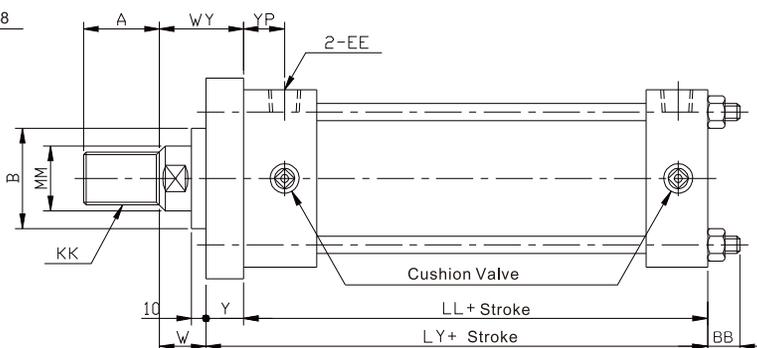
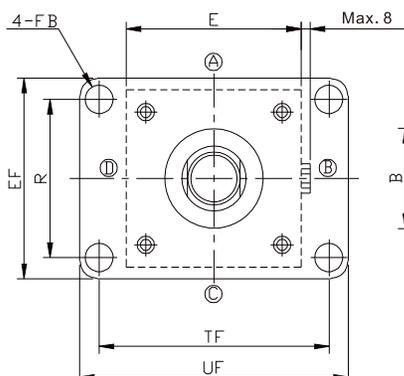
For 70 · 140kgf/cm<sup>2</sup> ※ Shape varies depending on bore sizes.



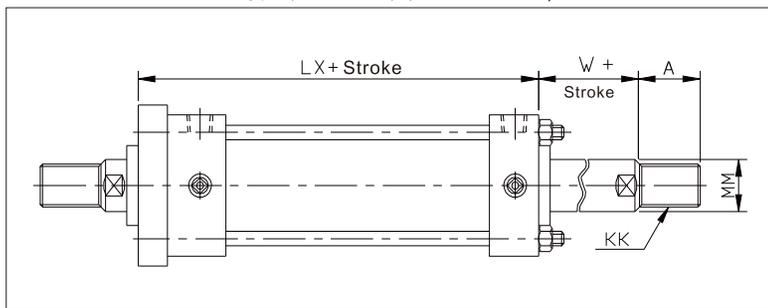
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat  
(for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



### Double rod type(双活塞杆) (Ø40 ~ Ø160)



- ※ For not shown dimensions, refer to SD type (standard type).
- ※ FY type has high mounting rigidity with its reinforced flange thickness compare with FA flange.

Cylinder cover fixing method according to stroke  
Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | BB | E    | EE          | EF  | FB  | LL  | LX  | LY  | R   | TF  | UF  | W  | WY  | Y  | YP |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|----|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|----|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |    |      |             |     |     |     |     |     |     |     |     |    |     |    |    |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | 15 | □65  | Rc(PT)3/8   | 69  | Ø11 | 130 | 168 | 143 | 46  | 95  | 118 | 30 | 43  | 13 | 27 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 15 | □75  | Rc(PT)1/2   | 85  | Ø14 | 142 | 187 | 160 | 58  | 115 | 145 | 30 | 48  | 18 | 29 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 17 | □90  | Rc(PT)1/2   | 98  | Ø18 | 148 | 199 | 168 | 65  | 132 | 165 | 35 | 56  | 20 | 31 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | 23 | □110 | Rc(PT)3/4   | 118 | Ø18 | 166 | 228 | 190 | 87  | 155 | 190 | 35 | 59  | 24 | 38 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 26 | □135 | Rc(PT)3/4   | 150 | Ø22 | 172 | 240 | 200 | 109 | 190 | 230 | 40 | 68  | 28 | 38 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 30 | □165 | Rc(PT)1     | 175 | Ø26 | 196 | 273 | 229 | 130 | 224 | 272 | 45 | 78  | 33 | 43 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | 35 | □185 | Rc(PT)1     | 195 | Ø26 | 204 | 287 | 241 | 145 | 250 | 300 | 50 | 87  | 37 | 43 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | 35 | □196 | Rc(PT)1     | 210 | Ø30 | 212 | 299 | 251 | 155 | 270 | 320 | 50 | 89  | 39 | 43 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | 35 | □210 | Rc(PT)1     | 225 | Ø33 | 222 | 314 | 263 | 170 | 285 | 345 | 55 | 96  | 41 | 43 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | 40 | □235 | Rc(PT)1 1/4 | 243 | Ø33 | 242 | -   | 288 | 185 | 315 | 375 | 55 | 101 | 46 | 42 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | 40 | □262 | Rc(PT)1 1/2 | 272 | Ø36 | 264 | -   | 315 | 206 | 355 | 425 | 55 | 106 | 51 | 48 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | 50 | □325 | Rc(PT)2     | 335 | Ø45 | 300 | -   | 365 | 250 | 425 | 515 | 65 | 130 | 65 | 60 |

# 标准液压缸

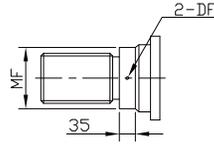
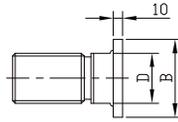
## Standard Hydraulic Cylinder

### TKP140H(Ø32~Ø250) Series

#### Dimensions(mm)(外形尺寸图(毫米))

#### Head Side Rectangular Flange (FZ)(无杆侧正方形法兰)

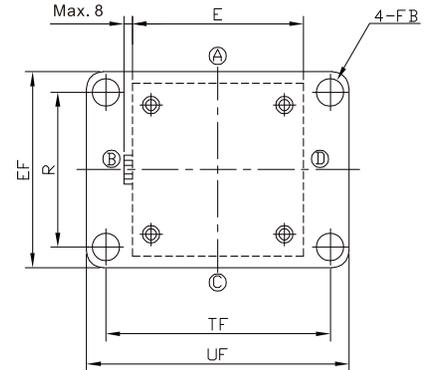
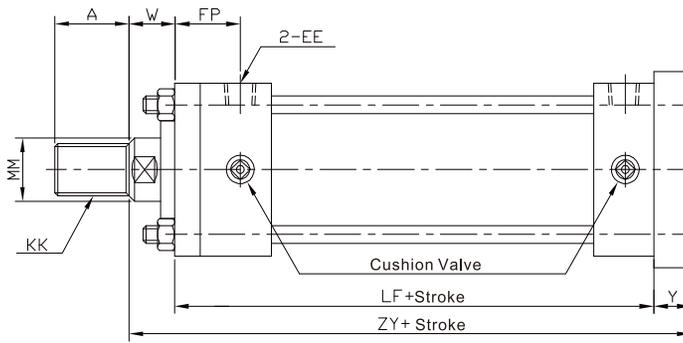
For 70 · 140kgf/cm<sup>2</sup> ※ Shape varies depending on bore sizes.



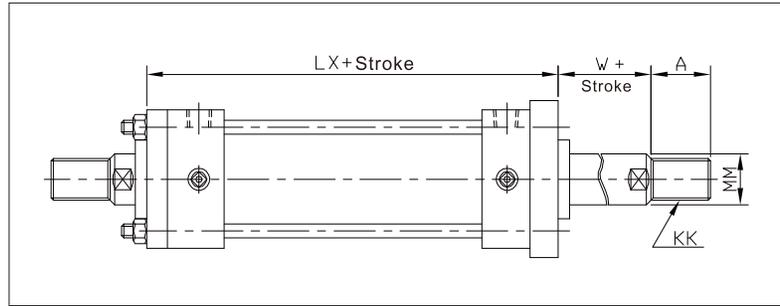
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat (for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



#### Double rod type(双活塞杆) (Ø40 ~ Ø160)



- ※ For not shown dimensions, refer to SD type (standard type).
- ※ FZ type has high mounting rigidity with its reinforced flange thickness compare with FB flange.

Cylinder cover fixing method according to stroke  
Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | E    | EE          | EF  | FB  | FP  | LF  | LX  | R   | TF  | UF  | W  | Y  | ZY  |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |      |             |     |     |     |     |     |     |     |     |    |    |     |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | □65  | Rc(PT)3/8   | 69  | Ø11 | 38  | 141 | 168 | 46  | 95  | 118 | 30 | 13 | 184 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | □75  | Rc(PT)1/2   | 85  | Ø14 | 42  | 155 | 187 | 58  | 115 | 145 | 30 | 18 | 203 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | □90  | Rc(PT)1/2   | 98  | Ø18 | 46  | 163 | 199 | 65  | 132 | 165 | 35 | 20 | 218 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | □110 | Rc(PT)3/4   | 118 | Ø18 | 56  | 184 | 228 | 87  | 155 | 190 | 35 | 24 | 243 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | □135 | Rc(PT)3/4   | 150 | Ø22 | 58  | 192 | 240 | 109 | 190 | 230 | 40 | 28 | 260 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | □165 | Rc(PT)1     | 175 | Ø26 | 67  | 220 | 273 | 130 | 224 | 272 | 45 | 33 | 298 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | □185 | Rc(PT)1     | 195 | Ø26 | 69  | 230 | 287 | 145 | 250 | 300 | 50 | 37 | 317 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | □196 | Rc(PT)1     | 210 | Ø30 | 71  | 240 | 299 | 155 | 270 | 320 | 50 | 39 | 329 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | □210 | Rc(PT)1     | 225 | Ø33 | 74  | 253 | 314 | 170 | 285 | 345 | 55 | 41 | 349 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | □235 | Rc(PT)1 1/4 | 243 | Ø33 | 75  | 275 | -   | 185 | 315 | 375 | 55 | 46 | 376 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | □262 | Rc(PT)1 1/2 | 272 | Ø36 | 85  | 301 | -   | 206 | 355 | 425 | 55 | 51 | 407 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | □325 | Rc(PT)2     | 335 | Ø45 | 106 | 346 | -   | 250 | 425 | 515 | 65 | 65 | 476 |

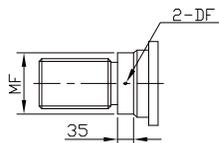
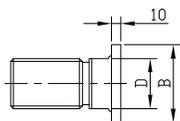
# 标准液压缸 Standard Hydraulic Cylinder

## TKP140H(Ø32~Ø250) Series

### Dimensions(mm)(外形尺寸图(毫米))

#### Rod Side Square Flange (FC) (杆侧长方形法兰)

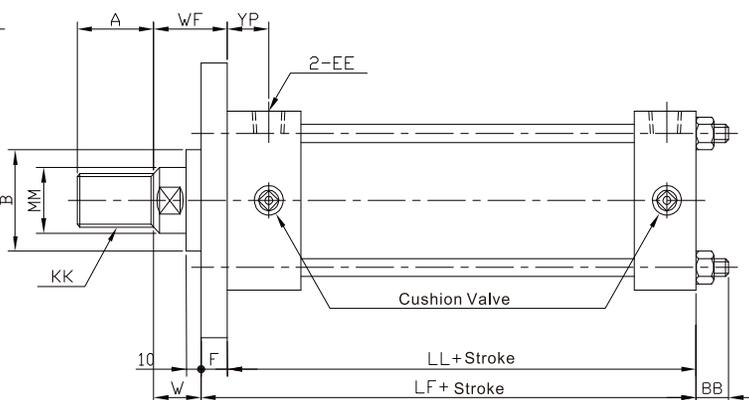
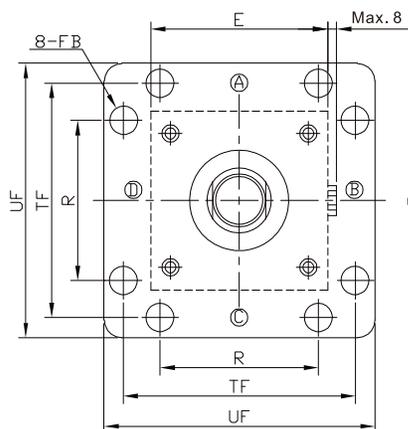
For 70 · 140kgf/cm<sup>2</sup> ※ Shape varies depending on bore sizes.



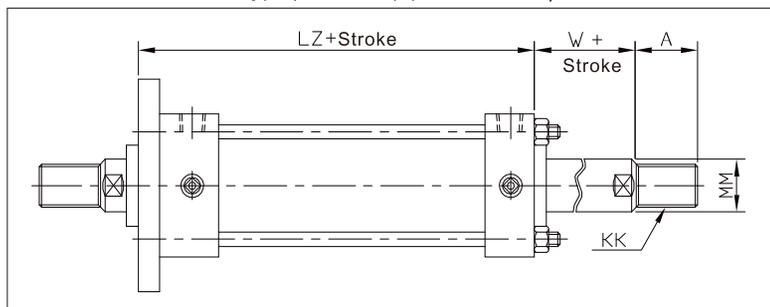
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat  
(for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



#### Double rod type(双活塞杆) (Ø40 ~ Ø160)



※ For not shown dimensions, refer to SD type (standard type).

Cylinder cover fixing method according to stroke  
Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | BB | E    | EE          | F  | FB  | LF  | LL  | LZ  | R   | TF  | UF  | W  | WF  | YP |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|----|------|-------------|----|-----|-----|-----|-----|-----|-----|-----|----|-----|----|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |    |      |             |    |     |     |     |     |     |     |     |    |     |    |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | 15 | □65  | Rc(PT)3/8   | 11 | Ø11 | 141 | 130 | 166 | 46  | 95  | 118 | 30 | 41  | 27 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 15 | □75  | Rc(PT)1/2   | 13 | Ø14 | 155 | 142 | 182 | 58  | 115 | 145 | 30 | 43  | 29 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 17 | □90  | Rc(PT)1/2   | 15 | Ø18 | 163 | 148 | 194 | 65  | 132 | 165 | 35 | 50  | 31 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | 23 | □110 | Rc(PT)3/4   | 18 | Ø18 | 184 | 166 | 222 | 87  | 155 | 190 | 35 | 53  | 38 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 26 | □135 | Rc(PT)3/4   | 20 | Ø22 | 192 | 172 | 232 | 109 | 190 | 230 | 40 | 60  | 38 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 30 | □165 | Rc(PT)1     | 24 | Ø26 | 220 | 196 | 264 | 130 | 224 | 272 | 45 | 69  | 43 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | 35 | □185 | Rc(PT)1     | 26 | Ø26 | 230 | 204 | 276 | 145 | 250 | 300 | 50 | 76  | 43 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | 35 | □196 | Rc(PT)1     | 28 | Ø30 | 240 | 212 | 288 | 155 | 270 | 320 | 50 | 78  | 43 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | 35 | □210 | Rc(PT)1     | 31 | Ø33 | 253 | 222 | 304 | 170 | 285 | 345 | 55 | 86  | 43 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | 40 | □235 | Rc(PT)1 1/4 | 33 | Ø33 | 275 | 242 | -   | 185 | 315 | 375 | 55 | 88  | 42 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | 40 | □262 | Rc(PT)1 1/2 | 37 | Ø36 | 301 | 264 | -   | 206 | 355 | 425 | 55 | 92  | 48 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | 50 | □325 | Rc(PT)2     | 46 | Ø45 | 346 | 300 | -   | 250 | 425 | 515 | 65 | 111 | 60 |

# 标准液压缸

## Standard Hydraulic Cylinder

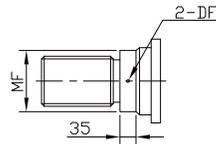
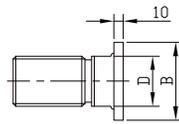
### TKP140H(Ø32~Ø250) Series

#### Dimensions(mm)(外形尺寸图(毫米))

#### Head Side Square Flange (FD) (无杆侧长方形法兰)

For 70 · 140kgf/cm<sup>2</sup>

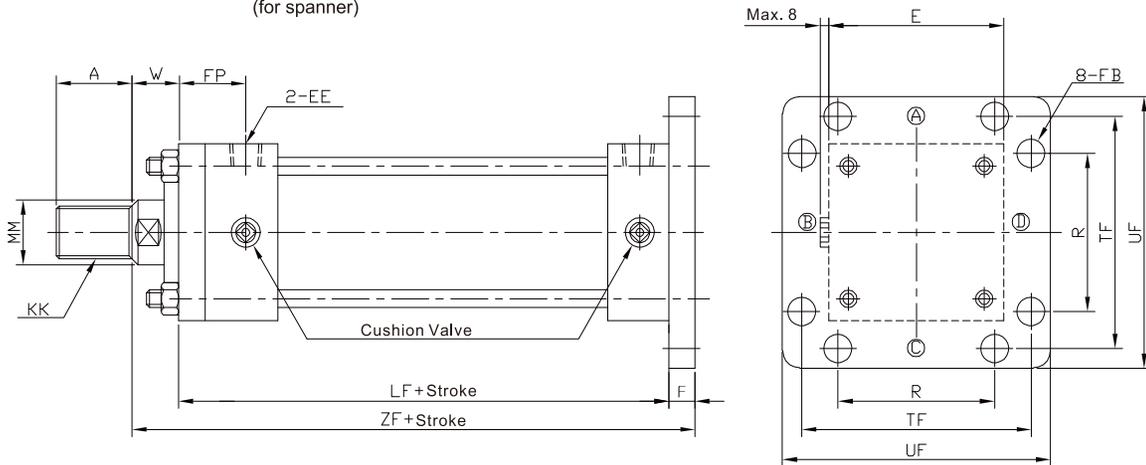
※ Shape varies depending on bore sizes.



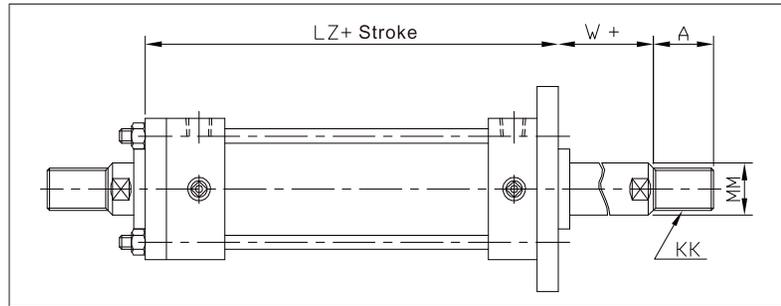
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat (for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



#### Double rod type(双活塞杆) (Ø40 ~ Ø160)



※ For not shown dimensions, refer to SD type (standard type).

Cylinder cover fixing method according to stroke

Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

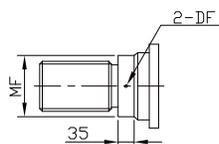
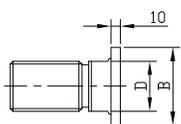
| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | E    | EE          | F  | FB  | FP  | LF  | LZ  | R   | TF  | UF  | W  | ZF  |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|------|-------------|----|-----|-----|-----|-----|-----|-----|-----|----|-----|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |      |             |    |     |     |     |     |     |     |     |    |     |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | □65  | Rc(PT)3/8   | 11 | Ø11 | 38  | 141 | 166 | 46  | 95  | 118 | 30 | 182 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | □75  | Rc(PT)1/2   | 13 | Ø14 | 42  | 155 | 182 | 58  | 115 | 145 | 30 | 198 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | □90  | Rc(PT)1/2   | 15 | Ø18 | 46  | 163 | 194 | 65  | 132 | 165 | 35 | 213 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | □110 | Rc(PT)3/4   | 18 | Ø18 | 56  | 184 | 222 | 87  | 155 | 190 | 35 | 237 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | □135 | Rc(PT)3/4   | 20 | Ø22 | 58  | 192 | 232 | 109 | 190 | 230 | 40 | 252 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | □165 | Rc(PT)1     | 24 | Ø26 | 67  | 220 | 264 | 130 | 224 | 272 | 45 | 289 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | □185 | Rc(PT)1     | 26 | Ø26 | 69  | 230 | 276 | 145 | 250 | 300 | 50 | 306 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | □196 | Rc(PT)1     | 28 | Ø30 | 71  | 240 | 288 | 155 | 270 | 320 | 50 | 318 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | □210 | Rc(PT)1     | 31 | Ø33 | 74  | 253 | 304 | 170 | 285 | 345 | 55 | 339 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | □235 | Rc(PT)1 1/4 | 33 | Ø33 | 75  | 275 | -   | 185 | 315 | 375 | 55 | 363 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | □262 | Rc(PT)1 1/2 | 37 | Ø36 | 85  | 301 | -   | 206 | 355 | 425 | 55 | 393 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | □325 | Rc(PT)2     | 46 | Ø45 | 106 | 346 | -   | 250 | 425 | 515 | 65 | 457 |

# 标准液压缸 Standard Hydraulic Cylinder TKP140H(Ø32~Ø250) Series

## Dimensions(mm)(外形尺寸图(毫米))

### Single Clevis (CA)(单U)

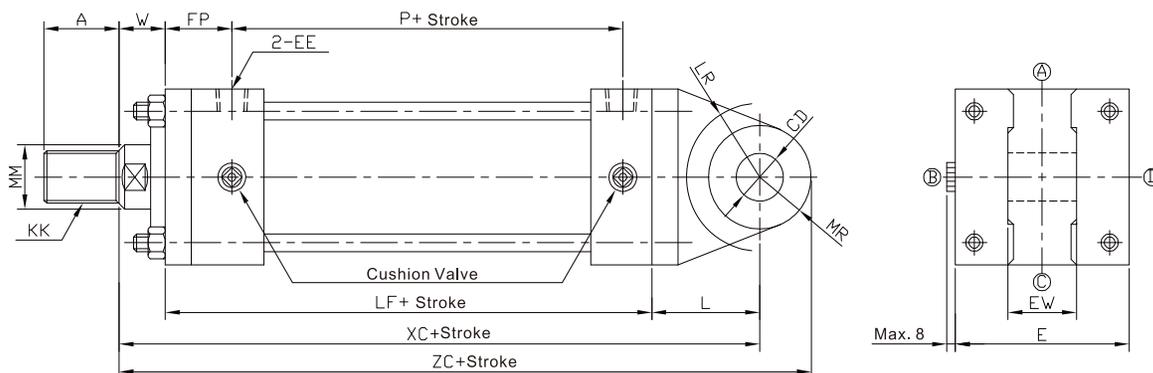
For 70 · 140kgf/cm<sup>2</sup> ※ Shape varies depending on bore sizes.



| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat  
(for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



※ For not shown dimensions, refer to SD type (standard type).

Cylinder cover fixing method according to stroke

Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | CD      | E    | EE          | EW                                   | FP  | L   | LF  | LR   | MR    | P   | W  | XC  | ZC    |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|---------|------|-------------|--------------------------------------|-----|-----|-----|------|-------|-----|----|-----|-------|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |         |      |             |                                      |     |     |     |      |       |     |    |     |       |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | Ø16H9   | □65  | Rc(PT)3/8   | 25 <sup>-0.1</sup> <sub>-0.4</sub>   | 38  | 38  | 141 | R20  | R16   | 90  | 30 | 209 | 225   |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | Ø20H9   | □75  | Rc(PT)1/2   | 31.5 <sup>-0.1</sup> <sub>-0.4</sub> | 42  | 45  | 155 | R25  | R20   | 98  | 30 | 230 | 250   |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | Ø31.5H9 | □90  | Rc(PT)1/2   | 40 <sup>-0.1</sup> <sub>-0.4</sub>   | 46  | 63  | 163 | R46  | R31.5 | 102 | 35 | 261 | 292.5 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | Ø31.5H9 | □110 | Rc(PT)3/4   | 40 <sup>-0.1</sup> <sub>-0.4</sub>   | 56  | 72  | 184 | R52  | R31.5 | 110 | 35 | 291 | 322.5 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | Ø40H9   | □135 | Rc(PT)3/4   | 50 <sup>-0.1</sup> <sub>-0.4</sub>   | 58  | 84  | 192 | R62  | R40   | 116 | 40 | 316 | 356   |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | Ø50H9   | □165 | Rc(PT)1     | 63 <sup>-0.1</sup> <sub>-0.4</sub>   | 67  | 100 | 220 | R73  | R50   | 130 | 45 | 365 | 415   |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | Ø63H9   | □185 | Rc(PT)1     | 80 <sup>-0.1</sup> <sub>-0.6</sub>   | 69  | 120 | 230 | R91  | R63   | 138 | 50 | 400 | 463   |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | Ø63H9   | □196 | Rc(PT)1     | 80 <sup>-0.1</sup> <sub>-0.6</sub>   | 71  | 122 | 240 | R91  | R63   | 146 | 50 | 412 | 475   |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | Ø71H9   | □210 | Rc(PT)1     | 80 <sup>-0.1</sup> <sub>-0.6</sub>   | 74  | 137 | 253 | R103 | R71   | 156 | 55 | 445 | 516   |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | Ø80H9   | □235 | Rc(PT)1 1/4 | 100 <sup>-0.1</sup> <sub>-0.6</sub>  | 75  | 150 | 275 | R100 | R80   | 172 | 55 | 480 | 560   |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | Ø90H9   | □262 | Rc(PT)1 1/2 | 125 <sup>-0.1</sup> <sub>-0.6</sub>  | 85  | 170 | 301 | R115 | R90   | 184 | 55 | 526 | 616   |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | Ø100H9  | □325 | Rc(PT)2     | 125 <sup>-0.1</sup> <sub>-0.6</sub>  | 106 | 185 | 346 | R125 | R100  | 200 | 65 | 596 | 696   |

# 标准液压缸

## Standard Hydraulic Cylinder

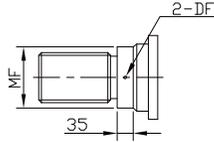
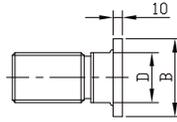
### TKP140H(Ø32~Ø250) Series

#### Dimensions(mm)(外形尺寸图(毫米))

#### Double Clevis (CB)(双U)

For 70 · 140kgf/cm<sup>2</sup>

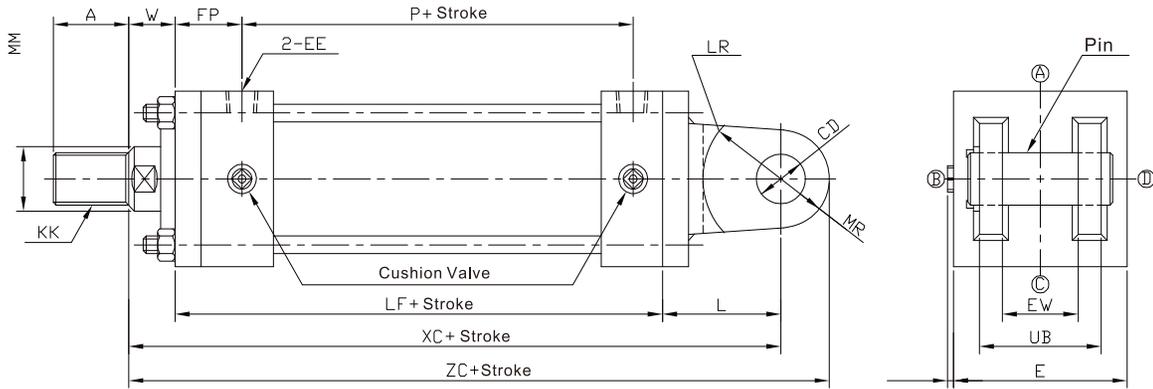
※ Shape varies depending on bore sizes.



| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width cross flat  
(for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



※ For not shown dimensions, refer to SD type(standard type).

Cylinder cover fixing method according to stroke

Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

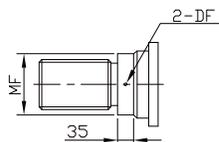
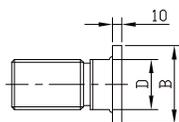
| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | CD      | E    | EE          | EW                                   | FP  | L   | LF  | LR   | MR    | P   | UB   | W  | XC  | ZC    |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|---------|------|-------------|--------------------------------------|-----|-----|-----|------|-------|-----|------|----|-----|-------|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |         |      |             |                                      |     |     |     |      |       |     |      |    |     |       |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | Ø16H9   | □65  | Rc(PT)3/8   | 25 <sup>-0.1</sup> <sub>-0.4</sub>   | 38  | 38  | 141 | R20  | R16   | 90  | 50   | 30 | 209 | 225   |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | Ø20H9   | □75  | Rc(PT)1/2   | 31.5 <sup>-0.1</sup> <sub>-0.4</sub> | 42  | 45  | 155 | R25  | R20   | 98  | 63.5 | 30 | 230 | 250   |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | Ø31.5H9 | □90  | Rc(PT)1/2   | 40 <sup>-0.1</sup> <sub>-0.4</sub>   | 46  | 63  | 163 | R46  | R31.5 | 102 | 80   | 35 | 261 | 292.5 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | Ø31.5H9 | □110 | Rc(PT)3/4   | 40 <sup>-0.1</sup> <sub>-0.4</sub>   | 56  | 72  | 184 | R52  | R31.5 | 110 | 80   | 35 | 291 | 322.5 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | Ø40H9   | □135 | Rc(PT)3/4   | 50 <sup>-0.1</sup> <sub>-0.4</sub>   | 58  | 84  | 192 | R62  | R40   | 116 | 100  | 40 | 316 | 356   |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | Ø50H9   | □165 | Rc(PT)1     | 63 <sup>-0.1</sup> <sub>-0.4</sub>   | 67  | 100 | 220 | R73  | R50   | 130 | 126  | 45 | 365 | 415   |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | Ø63H9   | □185 | Rc(PT)1     | 80 <sup>-0.1</sup> <sub>-0.6</sub>   | 69  | 120 | 230 | R91  | R63   | 138 | 160  | 50 | 400 | 463   |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | Ø63H9   | □196 | Rc(PT)1     | 80 <sup>-0.1</sup> <sub>-0.6</sub>   | 71  | 122 | 240 | R91  | R63   | 146 | 160  | 50 | 412 | 475   |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | Ø71H9   | □210 | Rc(PT)1     | 80 <sup>-0.1</sup> <sub>-0.6</sub>   | 74  | 137 | 253 | R103 | R71   | 156 | 160  | 55 | 445 | 516   |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | Ø80H9   | □235 | Rc(PT)1 1/4 | 100 <sup>-0.1</sup> <sub>-0.6</sub>  | 75  | 150 | 275 | R100 | R80   | 172 | 200  | 55 | 480 | 560   |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | Ø90H9   | □262 | Rc(PT)1 1/2 | 125 <sup>-0.1</sup> <sub>-0.6</sub>  | 85  | 170 | 301 | R115 | R90   | 184 | 251  | 55 | 526 | 616   |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | Ø100H9  | □325 | Rc(PT)2     | 125 <sup>-0.1</sup> <sub>-0.6</sub>  | 106 | 185 | 346 | R125 | R100  | 200 | 251  | 65 | 596 | 696   |

# 标准液压缸 Standard Hydraulic Cylinder TKP140H(Ø32~Ø250) Series

## Dimensions(mm)(外形尺寸图(毫米))

### Center Trunnion (TC)(中央轴耳)

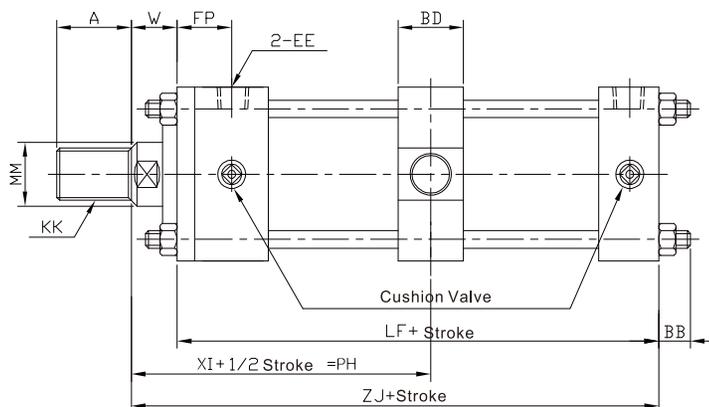
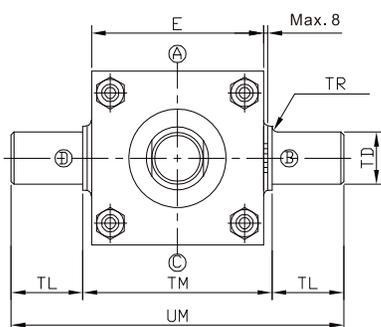
For 70 · 140kgf/cm<sup>2</sup> ※ Shape varies depending on bore sizes.



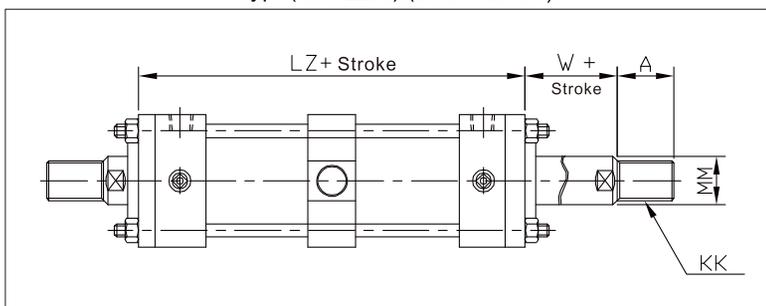
| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |

D:Width across flat  
(for spanner)

※ To the bore size of Ø100 a hole is placed with the width cross flat.



### Double rod type(双活塞杆) (Ø40 ~ Ø160)



※ For not shown dimensions, refer to SD type (standard type).

Cylinder cover fixing method according to stroke  
Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         |      | Bore size (C type) |      |    |         |      | BB | BD  | E    | EE          | FP  | LF  | LZ  | Min. PH | TD      | TL   | TM                                | TR  | UM  | W  | XI  | ZJ  |
|-----------|--------------------|------|----|---------|------|--------------------|------|----|---------|------|----|-----|------|-------------|-----|-----|-----|---------|---------|------|-----------------------------------|-----|-----|----|-----|-----|
|           | A                  | B    | D  | KK      | MM   | A                  | B    | D  | KK      | MM   |    |     |      |             |     |     |     |         |         |      |                                   |     |     |    |     |     |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 25                 | Ø36  | 16 | M16X1.5 | Ø18  | 15 | 28  | □65  | Rc(PT)3/8   | 38  | 141 | 166 | 105     | Ø20e9   | 20   | 69 <sup>0</sup> <sub>-0.3</sub>   | 2   | 109 | 30 | 113 | 171 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 30                 | Ø40  | 20 | M20X1.5 | Ø22  | 15 | 33  | □75  | Rc(PT)1/2   | 42  | 155 | 182 | 113.5   | Ø25e9   | 25   | 85 <sup>0</sup> <sub>-0.35</sub>  | 2.5 | 135 | 30 | 121 | 185 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35  | 35                 | Ø46  | 24 | M24X1.5 | Ø28  | 17 | 43  | □90  | Rc(PT)1/2   | 46  | 163 | 194 | 127.5   | Ø31.5e9 | 31.5 | 98 <sup>0</sup> <sub>-0.35</sub>  | 2.5 | 161 | 35 | 132 | 198 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 45                 | Ø55  | 31 | M30X1.5 | Ø35  | 23 | 43  | □110 | Rc(PT)3/4   | 56  | 184 | 222 | 140.5   | Ø31.5e9 | 31.5 | 118 <sup>0</sup> <sub>-0.35</sub> | 2.5 | 181 | 35 | 146 | 219 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 60                 | Ø65  | 41 | M39X1.5 | Ø45  | 26 | 53  | □135 | Rc(PT)3/4   | 58  | 192 | 232 | 152.5   | Ø40e9   | 40   | 145 <sup>0</sup> <sub>-0.4</sub>  | 3   | 225 | 40 | 156 | 232 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70  | 75                 | Ø80  | 50 | M48X1.5 | Ø55  | 30 | 58  | □165 | Rc(PT)1     | 67  | 220 | 264 | 174     | Ø50e9   | 50   | 175 <sup>0</sup> <sub>-0.46</sub> | 3   | 275 | 45 | 177 | 265 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80  | 80                 | Ø85  | 60 | M56X2   | Ø65  | 35 | 78  | □185 | Rc(PT)1     | 69  | 230 | 276 | 191     | Ø63e9   | 63   | 195 <sup>0</sup> <sub>-0.46</sub> | 4   | 321 | 50 | 188 | 280 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85  | 85                 | Ø90  | 60 | M60X2   | Ø65  | 35 | 78  | □196 | Rc(PT)1     | 71  | 240 | 288 | 193     | Ø63e9   | 63   | 206 <sup>0</sup> <sub>-0.46</sub> | 4   | 332 | 50 | 194 | 290 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90  | 95                 | Ø95  | 65 | M64X2   | Ø70  | 35 | 88  | □210 | Rc(PT)1     | 74  | 253 | 304 | 211     | Ø71e9   | 71   | 218 <sup>0</sup> <sub>-0.46</sub> | 4   | 360 | 55 | 207 | 308 |
| Ø180      | 140                | Ø125 | -  | M95X2   | Ø100 | 110                | Ø105 | 75 | M72X2   | Ø80  | 40 | 98  | □235 | Rc(PT)1 1/4 | 75  | 275 | -   | 222     | Ø80e9   | 80   | 243 <sup>0</sup> <sub>-0.46</sub> | 4   | 403 | 55 | 216 | 330 |
| Ø200      | 150                | Ø140 | -  | M100X2  | Ø112 | 120                | Ø115 | 85 | M80X2   | Ø90  | 40 | 108 | □262 | Rc(PT)1 1/2 | 85  | 301 | -   | 241     | Ø90e9   | 90   | 272 <sup>0</sup> <sub>-0.52</sub> | 5   | 452 | 55 | 232 | 356 |
| Ø250      | 195                | Ø170 | -  | M130X2  | Ø140 | 150                | Ø140 | -  | M100X2  | Ø112 | 50 | 117 | □325 | Rc(PT)2     | 106 | 346 | -   | 284.5   | Ø100e9  | 100  | 335 <sup>0</sup> <sub>-0.57</sub> | 5   | 535 | 65 | 271 | 411 |

# 标准液压缸

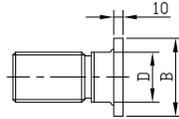
## Standard Hydraulic Cylinder

### TKP140H(Ø32~Ø250) Series

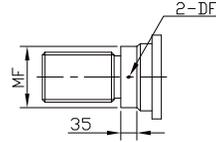
#### Dimensions(mm)(外形尺寸图(毫米))

#### Rod Side Trunnion(TA)(杆侧轴耳)

For 70 · 140kgf/cm<sup>2</sup> ※ Shape varies depending on bore sizes.

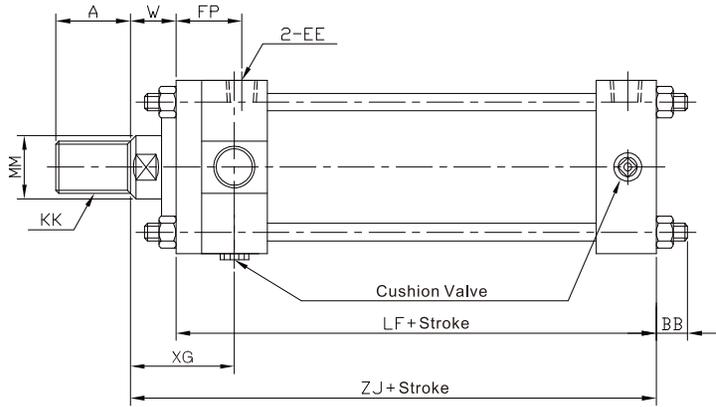
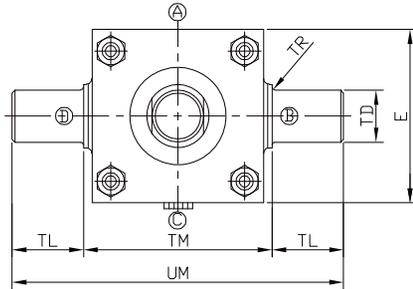


D:Width cross flat (for spanner)

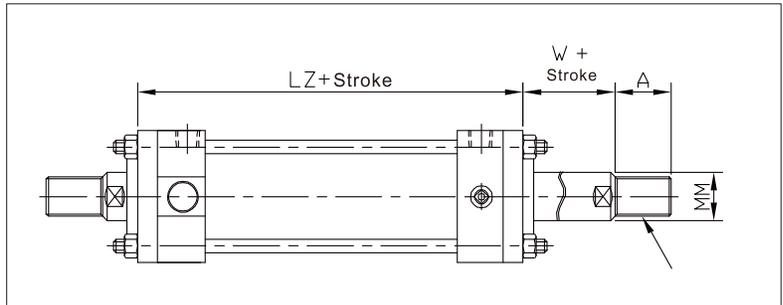


※ To the bore size of Ø100 a hole is placed with the width cross flat.

| Bore size | MF   | DF  |
|-----------|------|-----|
| Ø100      | Ø97  | Ø12 |
| Ø110      | Ø109 | Ø15 |
| Ø140      | Ø137 | Ø15 |



#### Double rod type(双活塞杆) (Ø40 ~ Ø160)



- ※ For not shown dimensions, refer to SD type (standard type).
- ※ Cushion valve and air vent location of TA type is C. (Rod cover)

Cylinder cover fixing method according to stroke

Unit:mm

| Bore size | ~1500        | 1501~2000        |
|-----------|--------------|------------------|
| Ø80~Ø250  | Tie rod type | Tube flange type |

Unit : mm

| Bore size | Bore size (B type) |      |    |         |     | Bore size (C type) |     |    |         |     | BB | E    | EE        | FP | LF  | LZ  | TD      | TL   | TM                                | TR  | UM  | W  | XG  | ZJ  |
|-----------|--------------------|------|----|---------|-----|--------------------|-----|----|---------|-----|----|------|-----------|----|-----|-----|---------|------|-----------------------------------|-----|-----|----|-----|-----|
|           | A                  | B    | D  | KK      | MM  | A                  | B   | D  | KK      | MM  |    |      |           |    |     |     |         |      |                                   |     |     |    |     |     |
| Ø40       | 30                 | Ø40  | 20 | M20X1.5 | Ø22 | 25                 | Ø36 | 16 | M16X1.5 | Ø18 | 15 | □65  | Rc(PT)3/8 | 38 | 141 | 166 | Ø20e9   | 20   | 69 <sup>0</sup> <sub>-0.3</sub>   | 2   | 109 | 30 | 62  | 171 |
| Ø50       | 35                 | Ø46  | 24 | M24X1.5 | Ø28 | 30                 | Ø40 | 20 | M20X1.5 | Ø22 | 15 | □75  | Rc(PT)1/2 | 42 | 155 | 182 | Ø25e9   | 25   | 85 <sup>0</sup> <sub>-0.35</sub>  | 2.5 | 135 | 30 | 66  | 185 |
| Ø63       | 45                 | Ø55  | 30 | M30X1.5 | Ø35 | 35                 | Ø46 | 24 | M24X1.5 | Ø28 | 17 | □90  | Rc(PT)1/2 | 46 | 163 | 194 | Ø31.5e9 | 31.5 | 98 <sup>0</sup> <sub>-0.35</sub>  | 2.5 | 161 | 35 | 74  | 198 |
| Ø80       | 60                 | Ø65  | 41 | M39X1.5 | Ø45 | 45                 | Ø55 | 31 | M30X1.5 | Ø35 | 23 | □110 | Rc(PT)3/4 | 56 | 184 | 222 | Ø31.5e9 | 31.5 | 118 <sup>0</sup> <sub>-0.35</sub> | 2.5 | 181 | 35 | 82  | 219 |
| Ø100      | 75                 | Ø80  | 50 | M48X1.5 | Ø55 | 60                 | Ø65 | 41 | M39X1.5 | Ø45 | 26 | □135 | Rc(PT)3/4 | 58 | 192 | 232 | Ø40e9   | 40   | 145 <sup>0</sup> <sub>-0.4</sub>  | 3   | 225 | 40 | 89  | 232 |
| Ø125      | 95                 | Ø95  | 65 | M64X2   | Ø70 | 75                 | Ø80 | 50 | M48X1.5 | Ø55 | 30 | □165 | Rc(PT)1   | 67 | 220 | 264 | Ø50e9   | 50   | 175 <sup>0</sup> <sub>-0.46</sub> | 3   | 275 | 45 | 103 | 265 |
| Ø140      | 110                | Ø105 | 75 | M72X2   | Ø80 | 80                 | Ø85 | 60 | M56X2   | Ø65 | 35 | □185 | Rc(PT)1   | 69 | 230 | 276 | Ø63e9   | 63   | 195 <sup>0</sup> <sub>-0.46</sub> | 4   | 321 | 50 | 112 | 280 |
| Ø150      | 115                | Ø110 | 80 | M76X2   | Ø85 | 85                 | Ø90 | 60 | M60X2   | Ø65 | 35 | □196 | Rc(PT)1   | 71 | 240 | 288 | Ø63e9   | 63   | 206 <sup>0</sup> <sub>-0.46</sub> | 4   | 332 | 50 | 112 | 290 |
| Ø160      | 120                | Ø115 | 85 | M80X2   | Ø90 | 95                 | Ø95 | 65 | M64X2   | Ø70 | 35 | □210 | Rc(PT)1   | 74 | 253 | 304 | Ø71e9   | 71   | 218 <sup>0</sup> <sub>-0.46</sub> | 4   | 360 | 55 | 126 | 308 |

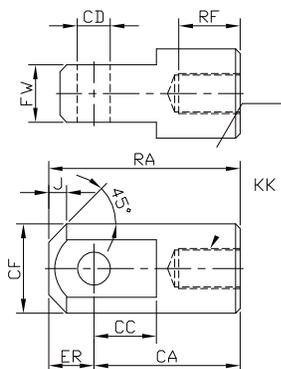
# 标准液压缸 Standard Hydraulic Cylinder TKP140H(Ø32~Ø250) Series

## Dimensions(mm)(外形尺寸图(毫米))

### Accessory(附件)

#### Single Knuckle Joint(单肘接头)

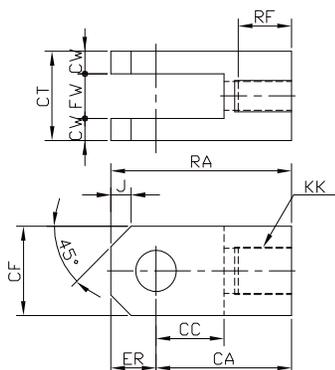
Unit : mm



| Part no.    |             | CA  | CC | CD       | CF  | CT   | CW   | ER | FW                        | J  | KK      |         | RA  | RF    |       |
|-------------|-------------|-----|----|----------|-----|------|------|----|---------------------------|----|---------|---------|-----|-------|-------|
| B rod       | C rod       |     |    |          |     |      |      |    |                           |    | B rod   | C rod   |     | B rod | C rod |
| I(Hyd.)40B  | I(Hyd.)40C  | 60  | 23 | Ø16H10   | 39  | 50   | 12.5 | 20 | 25 <sup>-0.4/-0.1</sup>   | 8  | M20x1.5 | M16x1.5 | 80  | 32    | 27    |
| I(Hyd.)50B  | I(Hyd.)50C  | 70  | 28 | Ø20H10   | 49  | 63.5 | 16   | 25 | 31.5 <sup>-0.4/-0.1</sup> | 10 | M24x1.5 | M20x1.5 | 95  | 37    | 32    |
| I(Hyd.)63B  | I(Hyd.)63C  | 115 | 43 | Ø31.5H10 | 62  | 80   | 20   | 35 | 40 <sup>-0.4/-0.1</sup>   | 15 | M30x1.5 | M24x1.5 | 150 | 47    | 37    |
| I(Hyd.)80B  | I(Hyd.)80C  | 115 | 43 | Ø31.5H10 | 62  | 80   | 20   | 35 | 40 <sup>-0.4/-0.1</sup>   | 15 | M39x1.5 | M30x1.5 | 150 | 62    | 47    |
| I(Hyd.)100B | I(Hyd.)100C | 145 | 55 | Ø40H10   | 79  | 100  | 25   | 40 | 50 <sup>-0.4/-0.1</sup>   | 20 | M48x1.5 | M39x1.5 | 185 | 77    | 62    |
| I(Hyd.)125B | I(Hyd.)125C | 180 | 65 | Ø50H10   | 100 | 126  | 31.5 | 50 | 63 <sup>-0.4/-0.1</sup>   | 30 | M64x2   | M48x1.5 | 230 | 97    | 77    |
| I(Hyd.)140B | I(Hyd.)140C | 225 | 85 | Ø63H10   | 130 | 160  | 40   | 65 | 80 <sup>-0.4/-0.1</sup>   | 30 | M72x2   | M56x2   | 290 | 112   | 82    |
| I(Hyd.)150B | I(Hyd.)150C | 225 | 85 | Ø63H10   | 130 | 160  | 40   | 65 | 80 <sup>-0.4/-0.1</sup>   | 30 | M76x2   | M60x2   | 290 | 117   | 87    |
| I(Hyd.)160B | I(Hyd.)160C | 240 | 90 | Ø71H10   | 140 | 160  | 40   | 70 | 80 <sup>-0.4/-0.1</sup>   | 40 | M80x2   | M64x2   | 310 | 122   | 97    |

#### Double Knuckle Joint(双肘接头)

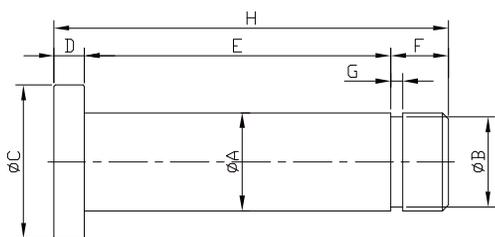
Unit : mm



| Part no.    |             | CA  | CC  | CD                     | CF  | CT   | ER   | FW | J                         | KK    |         | RA      | RF    |       |    |
|-------------|-------------|-----|-----|------------------------|-----|------|------|----|---------------------------|-------|---------|---------|-------|-------|----|
| B rod       | C rod       |     |     |                        |     |      |      |    |                           | B rod | C rod   |         | B rod | C rod |    |
| Y(Hyd.)40B  | Y(Hyd.)40C  | 60  | 27  | Ø16 <sup>H10/B</sup>   | 32  | 50   | 12.5 | 16 | 25 <sup>+0.4/+0.1</sup>   | 8     | M20x1.5 | M16x1.5 | 76    | 32    | 27 |
| Y(Hyd.)50B  | Y(Hyd.)50C  | 70  | 32  | Ø20 <sup>H10/B</sup>   | 40  | 63.5 | 16   | 20 | 31.5 <sup>+0.4/+0.1</sup> | 10    | M24x1.5 | M20x1.5 | 90    | 37    | 32 |
| Y(Hyd.)63B  | Y(Hyd.)63C  | 115 | 50  | Ø31.5 <sup>H10/B</sup> | 60  | 80   | 20   | 30 | 40 <sup>+0.4/+0.1</sup>   | 15    | M30x1.5 | M24x1.5 | 145   | 47    | 37 |
| Y(Hyd.)80B  | Y(Hyd.)80C  | 115 | 50  | Ø31.5 <sup>H10/B</sup> | 60  | 80   | 20   | 30 | 40 <sup>+0.4/+0.1</sup>   | 15    | M39x1.5 | M30x1.5 | 145   | 62    | 47 |
| Y(Hyd.)100B | Y(Hyd.)100C | 145 | 60  | Ø40 <sup>H10/B</sup>   | 80  | 100  | 25   | 40 | 50 <sup>+0.4/+0.1</sup>   | 20    | M48x1.5 | M39x1.5 | 185   | 77    | 62 |
| Y(Hyd.)125B | Y(Hyd.)125C | 180 | 70  | Ø50 <sup>H10/B</sup>   | 100 | 126  | 31.5 | 50 | 63 <sup>+0.4/+0.1</sup>   | 30    | M64x2   | M48x1.5 | 230   | 97    | 77 |
| Y(Hyd.)140B | Y(Hyd.)140C | 225 | 90  | Ø63 <sup>H10/B</sup>   | 120 | 160  | 40   | 65 | 80 <sup>+0.4/+0.1</sup>   | 30    | M72x2   | M56x2   | 290   | 112   | 82 |
| Y(Hyd.)150B | Y(Hyd.)150C | 225 | 90  | Ø63 <sup>H10/B</sup>   | 120 | 160  | 40   | 65 | 80 <sup>+0.4/+0.1</sup>   | 30    | M76x2   | M60x2   | 290   | 117   | 87 |
| Y(Hyd.)160B | Y(Hyd.)160C | 240 | 100 | Ø71 <sup>H10/B</sup>   | 140 | 160  | 40   | 70 | 80 <sup>+0.4/+0.1</sup>   | 40    | M80x2   | M64x2   | 310   | 122   | 97 |

#### Knuckle Joint Pin / Clevis Pin(销子)

Unit : mm



| Part no.        |                   | A    | B    | C  | D  | E     | F   | G   | H   |
|-----------------|-------------------|------|------|----|----|-------|-----|-----|-----|
| Clevis pin      | Knuckle joint pin |      |      |    |    |       |     |     |     |
| CB PIN(Hyd.)40  | Y PIN(Hyd.)40     | 16   | 14.7 | 25 | 5  | 50.5  | 9.5 | 2   | 65  |
| CB PIN(Hyd.)50  | Y PIN(Hyd.)50     | 20   | 18.5 | 30 | 5  | 64    | 10  | 2   | 79  |
| CB PIN(Hyd.)63  | Y PIN(Hyd.)63     | 31.5 | 30   | 40 | 5  | 80.5  | 9.5 | 2.5 | 95  |
| CB PIN(Hyd.)80  | Y PIN(Hyd.)80     | 31.5 | 30   | 40 | 5  | 80.5  | 9.5 | 2.5 | 95  |
| CB PIN(Hyd.)100 | Y PIN(Hyd.)100    | 40   | 37.5 | 50 | 5  | 100.5 | 9.5 | 2.5 | 115 |
| CB PIN(Hyd.)125 | Y PIN(Hyd.)125    | 50   | 46.5 | 60 | 5  | 126.5 | 9.5 | 3   | 141 |
| CB PIN(Hyd.)140 | Y PIN(Hyd.)140    | 63   | 58.5 | 70 | 10 | 161   | 9   | 3   | 180 |
| CB PIN(Hyd.)150 | Y PIN(Hyd.)150    | 63   | 58.5 | 70 | 10 | 161   | 9   | 3   | 180 |
| CB PIN(Hyd.)160 | Y PIN(Hyd.)160    | 71   | 66.5 | 80 | 10 | 161   | 9   | 3   | 180 |

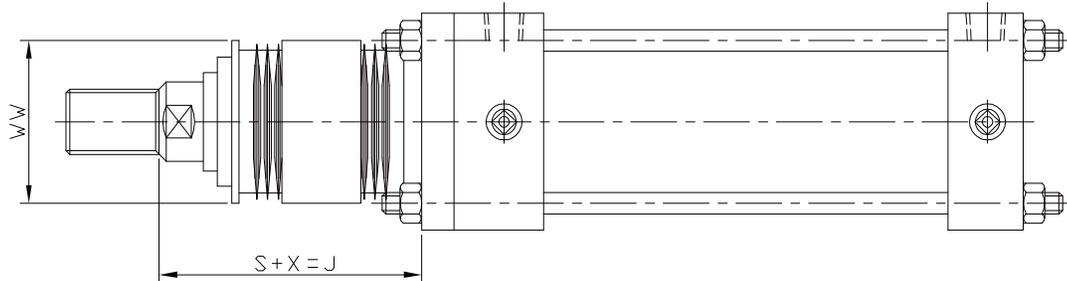
## 标准液压缸

## Standard Hydraulic Cylinder

## TKP140H(Ø32~Ø250) Series

## Dimensions(mm)(外形尺寸图(毫米))

## Gaiter (J, K)(带伸缩保护套)



|             |                 |                |
|-------------|-----------------|----------------|
| Type        | J               | K              |
| Material    | Nylon Tarpaulin | Neoprene Cloth |
| Temperature | 60 °C           | 110 °C         |

|           |            |     |            |     |      |            |      |      |      |      |            |      |
|-----------|------------|-----|------------|-----|------|------------|------|------|------|------|------------|------|
| Bore size | Ø40        | Ø50 | Ø63        | Ø80 | Ø100 | Ø125       | Ø140 | Ø150 | Ø160 | Ø180 | Ø200       | Ø250 |
| X         | 45         | 45  | 55         | 55  | 55   | 65         | 65   | 65   | 65   | 65   | 65         | 80   |
| Ww        | B type     | 50  | 63         | 71  | 80   | 100        | 125  | 140  | 140  | 160  | 180        | 200  |
|           | C type     | 50  | 50         | 63  | 71   | 80         | 125  | 125  | 125  | 125  | 140        | 180  |
| S         | 1/3xStroke |     | 1/4xStroke |     |      | 1/5xStroke |      |      |      |      | 1/6xStroke |      |

※ For not shown dimensions, refer to SD type (standard type).

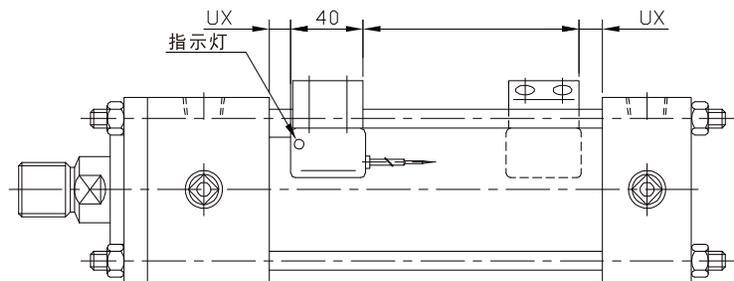
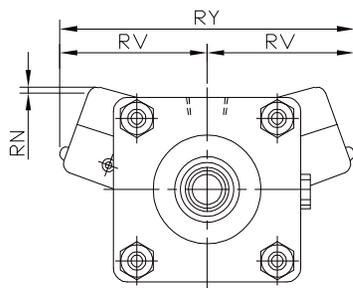
※ Dimensions remain the same even when tube flange type mounting is applied.

※ When calculating with decimals, please round up.

※ SUS band is mounted at bellows at delivery.

## Dimensions(mm)(外形尺寸图(毫米))

## Auto Switch Attached Type (Single Rod)(单活塞杆附磁性开关)



※ For not shown dimensions, refer to TKP140H series according to cylinder mounting type.

|           |    |     |      |    |
|-----------|----|-----|------|----|
| Bore size | RN | RY  | RV   | UX |
| Ø40       | 3  | 99  | 49.5 | 28 |
| Ø50       | 3  | 110 | 55   | 30 |
| Ø63       | 2  | 120 | 60   | 35 |
| Ø80       | 6  | 144 | 72   | 37 |
| Ø100      | 5  | 159 | 79.5 | 45 |

※ Tube material : SUS

※ Magnet: Metal magnet