

# LCV系列逻辑阀

## 型号说明

LCV-16-05-E-N-08-V

密封件  
空白: 丁腈橡胶  
V: 氟橡胶

节流孔规格  
空白: 无节流孔  
06: 0.6 mm 08: 0.8 mm  
10: 1.0 mm 12: 1.2 mm

控制方式  
N: 常开  
空白: 常闭(标准品)

阀型式  
E: 方向逻辑阀  
D: 方向逻辑阀带缓冲  
BA: 调压逻辑阀(带阻尼)标准品  
BE: 调压逻辑阀(不带阻尼)

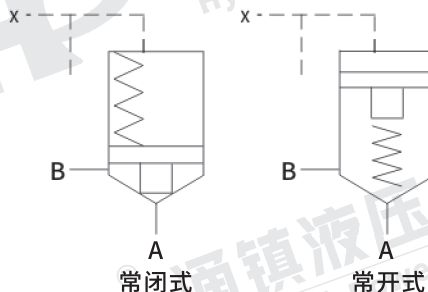
开启压力  
05: 0.35bar  
20: 1.4bar  
50: 3.5bar

公称通径  
16, 25, 32, 40, 50, 63, 80, 100, 125, 160

逻辑阀



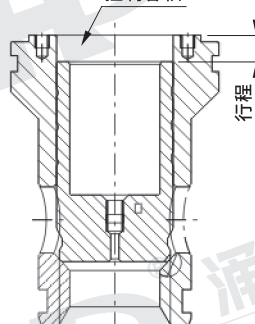
## ● 液压符号



## ● 阀型式示意图

BA/BE: 调压

控制容积

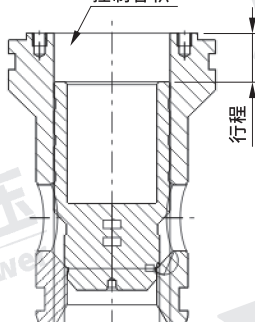


A1: 100%

A3: 100%

D: 方向附缓冲

控制容积



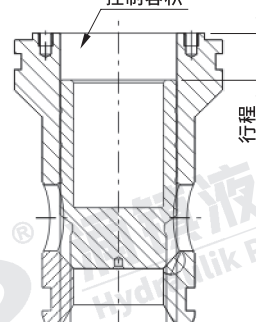
A1: 100%

A2: 50%

A3: 150%

E: 方向

控制容积



A1: 100%

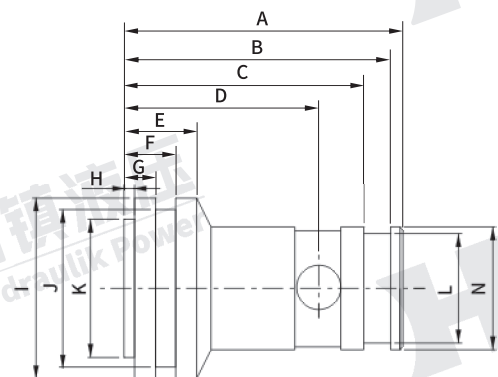
A2: 50%

A3: 150%

## ● 规格表

|                                          |       | 型号                       |        |        |        |        |        |        |         |         |         |
|------------------------------------------|-------|--------------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
|                                          |       | LCV-16                   | LCV-25 | LCV-32 | LCV-40 | LCV-50 | LCV-63 | LCV-80 | LCV-100 | LCV-125 | LCV-160 |
| 面积A1<br>(cm <sup>2</sup> )               | BE/BA | 2.1                      | 4.9    | 8.0    | 12.6   | 24.6   | 32.2   | 52.8   | 95.0    | 143.0   | 240.0   |
|                                          | D     | 1.7                      | 3.5    | 5.5    | 9.3    | 16.6   | 22.9   | 35.2   | 63.6    | 95.0    | 160.0   |
|                                          | E     | 1.5                      | 3.6    | 5.3    | 9.4    | 16.6   | 22.9   | 35.2   | 63.6    | 95.0    | 160.0   |
| 面积A2<br>(cm <sup>2</sup> )               | BE/BA | 0.1                      | 0      | 0      | 1.3    | 0      | 2.0    | 0      | 0       | 0       | 0       |
|                                          | D     | 0.6                      | 1.4    | 2.5    | 4.5    | 8.0    | 11.3   | 17.6   | 31.4    | 48.0    | 79.0    |
|                                          | E     | 0.7                      | 1.3    | 2.7    | 4.5    | 8.0    | 11.3   | 17.6   | 31.4    | 48.0    | 79.0    |
| 面积A3<br>(cm <sup>2</sup> )               | BE/BA | 2.3                      | 4.9    | 8.0    | 13.9   | 24.6   | 34.2   | 52.8   | 95.0    | 143.0   | 240.0   |
|                                          | D     | 2.3                      | 4.9    | 8.0    | 13.9   | 24.6   | 34.2   | 52.8   | 95.0    | 143.0   | 240.0   |
|                                          | E     | 2.3                      | 4.9    | 8.0    | 13.9   | 24.6   | 34.2   | 52.8   | 95.0    | 143.0   | 240.0   |
| 面积比                                      | BE/BA | A1/A3=1:1                |        |        |        |        |        |        |         |         |         |
|                                          | D     | A1/A2=2:1                |        |        |        |        |        |        |         |         |         |
|                                          | E     | A1/A2=2:1                |        |        |        |        |        |        |         |         |         |
| 行程<br>(cm)                               | BE/BA | 1.0                      | 0.7    | 1.0    | 1.0    | 1.6    | 2.2    | 2.8    | 3.8     | 4.3     | 6.3     |
|                                          | D     | 1.3                      | 1.0    | 1.6    | 1.8    | 2.2    | 2.4    | 3.3    | 3.9     | 4.8     | 6.5     |
|                                          | E     | 1.3                      | 1.0    | 1.7    | 1.7    | 2.2    | 1.9    | 2.7    | 3.0     | 3.8     | 5.5     |
| 控制容积<br>(cm <sup>3</sup> )               | BE/BA | 2.3                      | 3.5    | 8.0    | 13.2   | 39.2   | 73.6   | 147.8  | 361.1   | 615.5   | 1515.2  |
|                                          | D     | 3.0                      | 5.1    | 13.0   | 24.2   | 53.0   | 82.1   | 174.2  | 370.6   | 687     | 1563    |
|                                          | E     | 2.9                      | 5.1    | 13.7   | 23.3   | 53.0   | 66.4   | 137.9  | 385.1   | 544     | 1203    |
| 最高压力(bar)                                |       | 315                      |        |        |        |        |        |        |         |         |         |
| $\Delta P=10\text{bar}$ ,<br>最大流量(l/min) | D     | 230                      | 480    | 800    | 1400   | 1850   | 2500   | 4000   | 6400    | 10800   | 16200   |
|                                          | E     | 260                      | 640    | 960    | 1800   | 2200   | 3000   | 5000   | 8800    | 14400   | 22500   |
| 工作温度(°C)                                 |       | -15~70                   |        |        |        |        |        |        |         |         |         |
| 开启压力(bar)                                |       | 05: 0.35 20: 1.4 50: 3.5 |        |        |        |        |        |        |         |         |         |
| 粘度范围(cSt)                                |       | 10~400                   |        |        |        |        |        |        |         |         |         |
| 污染标准                                     |       | ≤NAS12 25μ               |        |        |        |        |        |        |         |         |         |
| 适用油液                                     |       | ISO VG32 46 68           |        |        |        |        |        |        |         |         |         |

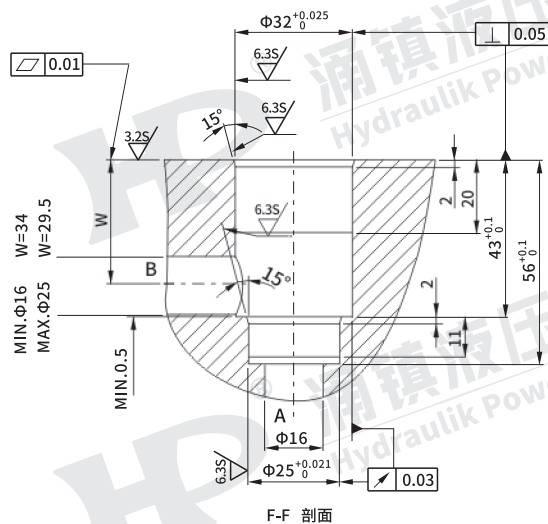
## 外形尺寸图



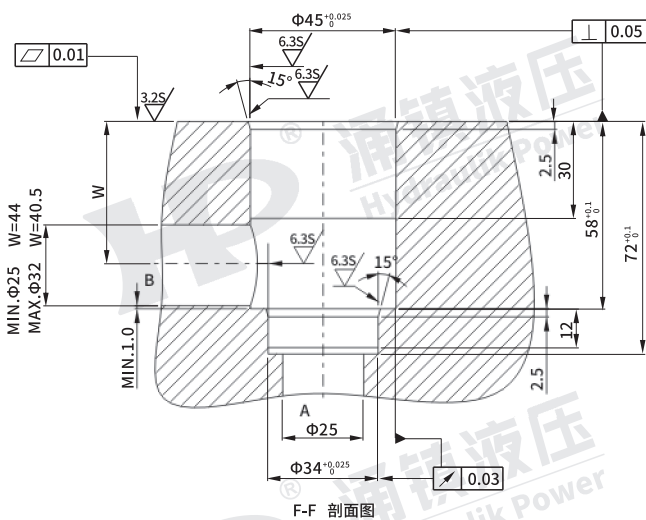
| 型号         | A   | B     | C     | D     | E  | F    | G    | H   | I   | J     | K    | L     | N   |
|------------|-----|-------|-------|-------|----|------|------|-----|-----|-------|------|-------|-----|
| LCV-16-★★  | 56  | 52    | 46.5  | 37    | 16 | 10.5 | 7    | 2.4 | 32  | 29.2  | 23.7 | 22.2  | 25  |
| LCV-25-★★  | 72  | 69    | 62.6  | 43    | 16 | 13.5 | 8.8  | 1.8 | 45  | 40.8  | 37   | 29.8  | 34  |
| LCV-32-★★  | 85  | 81    | 74.6  | 58    | 20 | 13.6 | 8    | 2.4 | 60  | 55    | 47.5 | 40.8  | 45  |
| LCV-40-★★  | 105 | 97    | 90.6  | 66.5  | 24 | 15.6 | 10   | 2.4 | 75  | 70    | 62   | 50.8  | 55  |
| LCV-50-★★  | 122 | 114   | 107.6 | 83    | 20 | 14.6 | 9    | 2.4 | 90  | 85    | 76.8 | 63.8  | 68  |
| LCV-63-★★  | 155 | 145.5 | 134   | 115   | 27 | 21   | 12   | 4.6 | 120 | 110   | 94   | 80    | 90  |
| LCV-80-★★  | 205 | 195   | 183.5 | 152   | 30 | 21   | 12   | 4.6 | 145 | 135   | 120  | 100   | 110 |
| LCV-100-★★ | 245 | 231.5 | 220   | 180   | 35 | 28   | 15   | 6.9 | 180 | 165   | 150  | 125   | 135 |
| LCV-125-★★ | 300 | 281.5 | 268.5 | 212.5 | 32 | 26   | 13   | 7   | 225 | 210.8 | 190  | 188.4 | 200 |
| LCV-160-★★ | 425 | 391.9 | 376.3 | 298   | 65 | 40.3 | 24.7 | —   | 300 | 285   | —    | 255   | 270 |

单位: mm

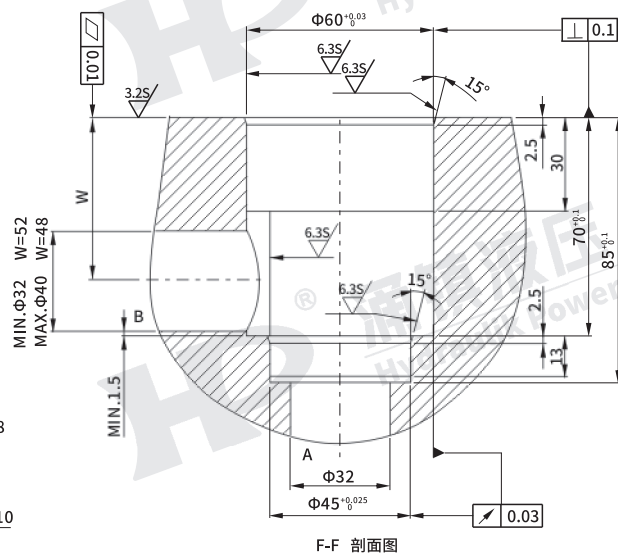
Technical drawing of a hydraulic cylinder head end view. The drawing shows a central circular port with a diameter of 65 mm. Four mounting holes are arranged in a square pattern with a side length of 65 mm. The mounting holes have a diameter of  $46 \pm 0.2$  mm and are spaced  $25 \pm 0.2$  mm from the center. The central port has a diameter of  $23 \pm 0.2$  mm. The drawing includes dimensions for the mounting holes (4-M8 x 20), the central port (2-MAX.  $\Phi 4$  (Z1, Z2) and 2-MAX.  $\Phi 4$  (X, Y)), and the overall dimensions (65 mm). A force F is shown acting on the central port. The drawing is labeled "Hydraulic Power".



Technical drawing of a square flange with a central circular feature and six mounting holes. The drawing includes dimensions for overall size (85x85), hole positions (58±0.2), and hole sizes (2-MAX.Φ6 (X,Y) and 2-MAX.Φ6 (Z1,Z2)). It also shows a central circular feature with dimensions 16±0.2 and 29±0.2, and a threaded hole 4-M12×25. A coordinate system (X, Y) is centered on the flange.

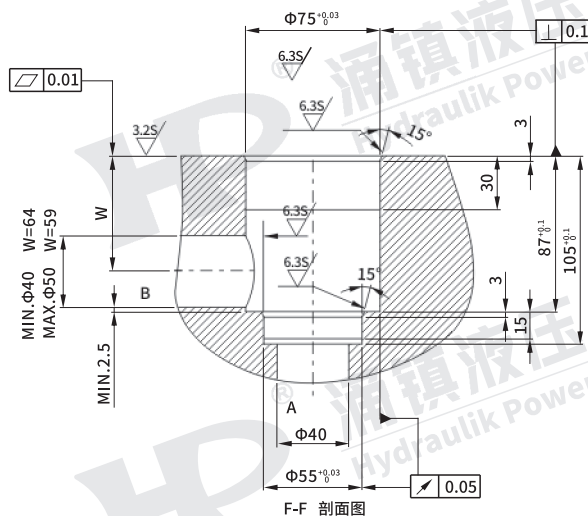
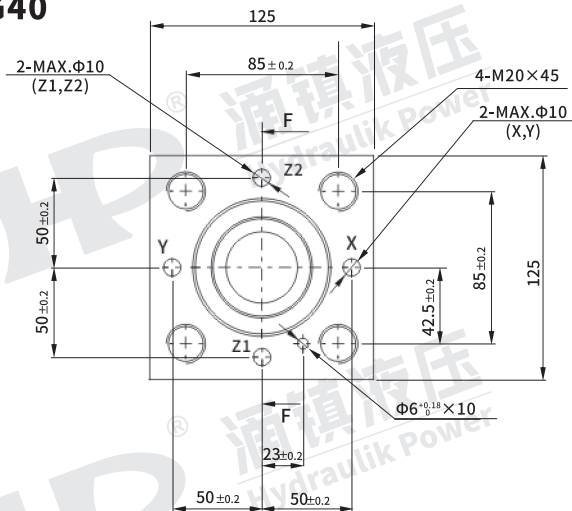


Technical drawing of a square plate with a central circular feature and four corner holes. The drawing includes dimensions for overall size (102), hole positions (70±0.2, 41±0.2, 35±0.2, 17±0.2), hole sizes (2-MAX.Φ8, Φ6<sup>+0.18</sup>/<sub>-0.10</sub>), and material specifications (4-M16×35). Coordinate axes X, Y, Z1, and Z2 are shown.

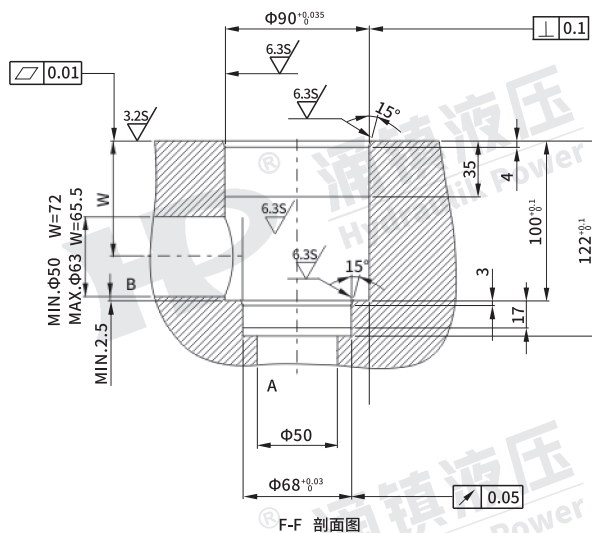
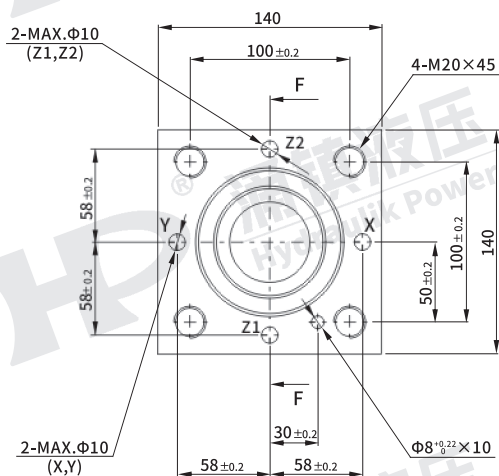


单位: mm

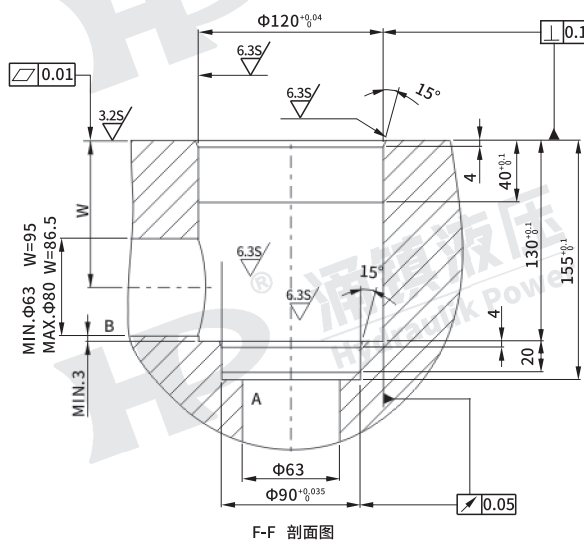
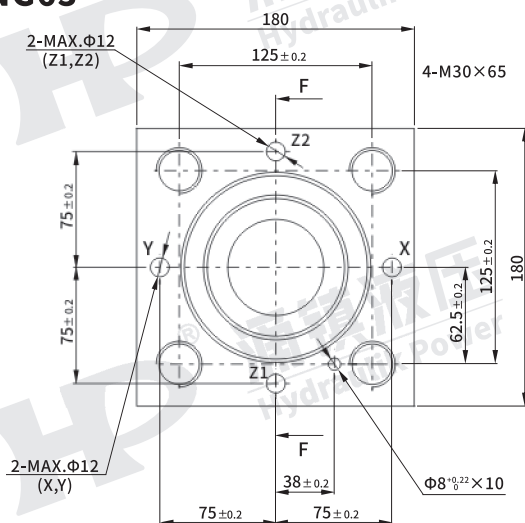
## NG40



## NG50

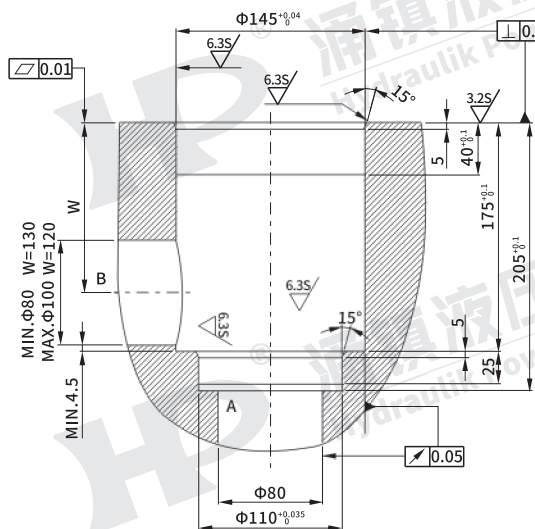
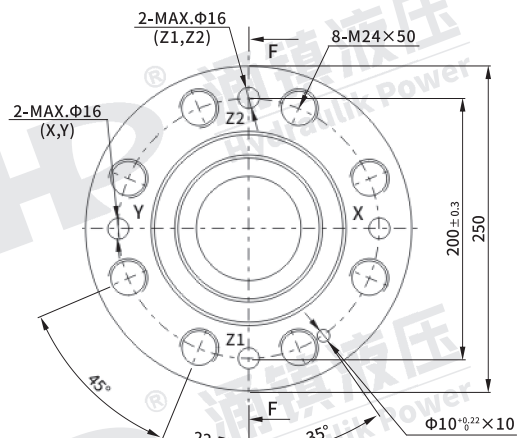


## NG63

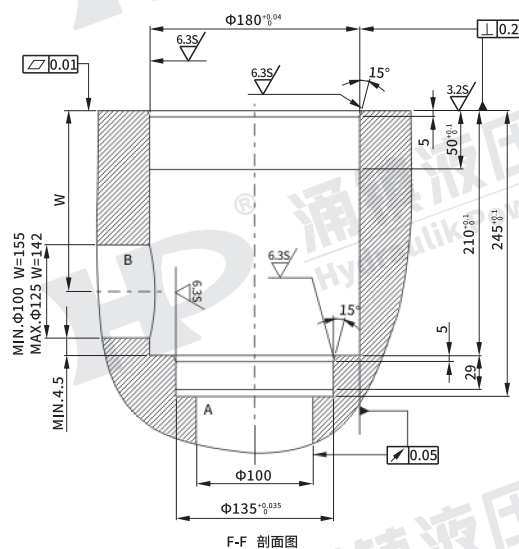
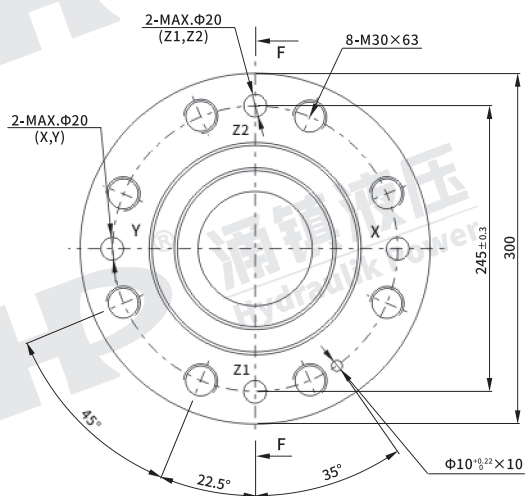


单位: mm

NG80

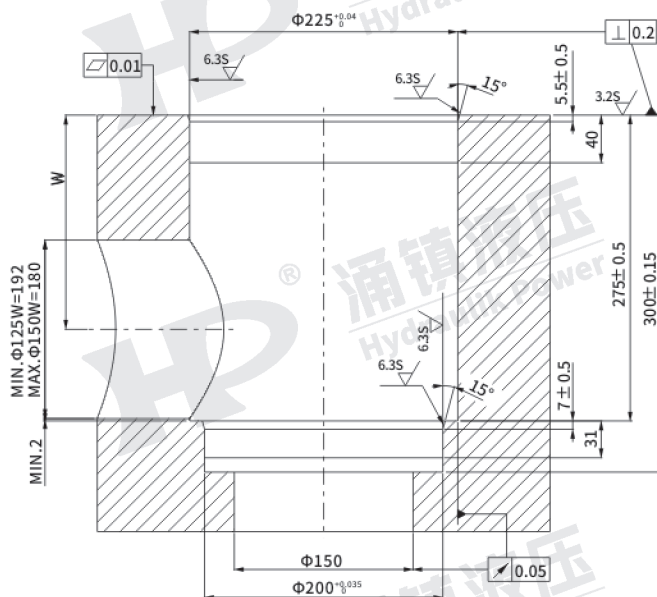


NG100



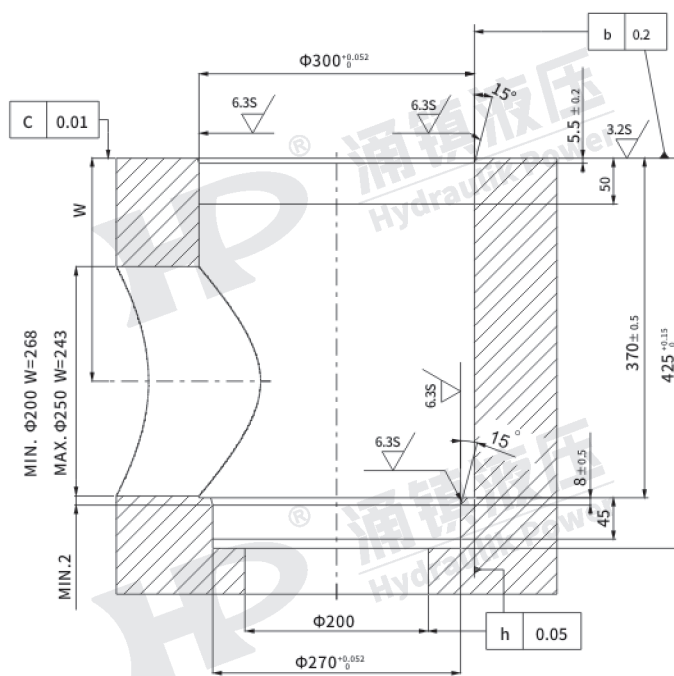
插装阀

## NG 125



F-F 剖面图

NG 160



F-F 剖面图