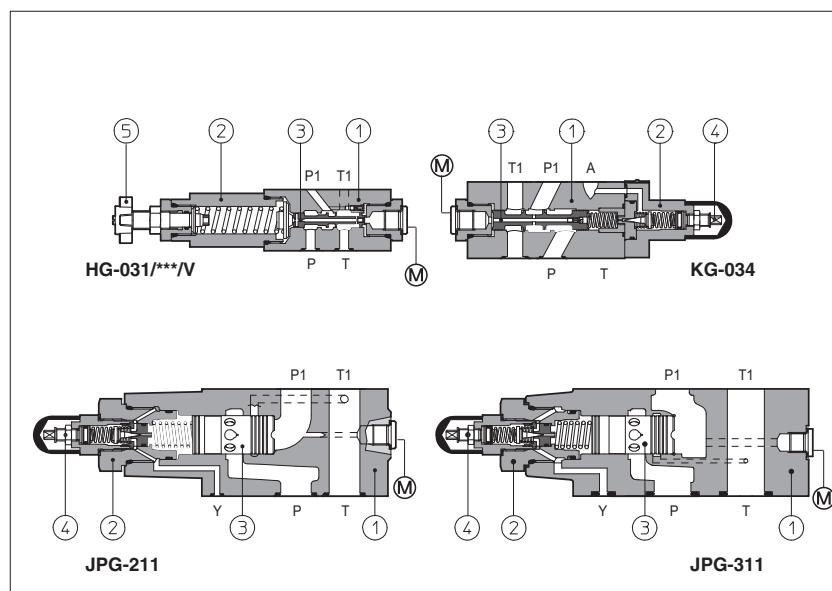


## HG, KG, JPG-2和JPG-3型叠加式减压阀

滑阀型, ISO 4401标准, 06, 10, 16和25通径



**HG, KG, JPG**是滑阀型③减压阀, 适用于液压系统中。

**HG**是直动式三通阀;

**KG**是两级①②, 三通阀;

**JPG**是两级①②, 两通阀;

顺时针转动增大压力。

阀规格和最大流量:

**HG** = 06通径, 流量高达50l/min;

**KG** = 10通径, 流量高达100l/min;

**JPG-2** = 16通径, 流量高达250l/min;

**JPG-3** = 25通径, 流量高达300l/min;

安装界面:

**ISO 4401标准, 06, 10, 16和25通径**

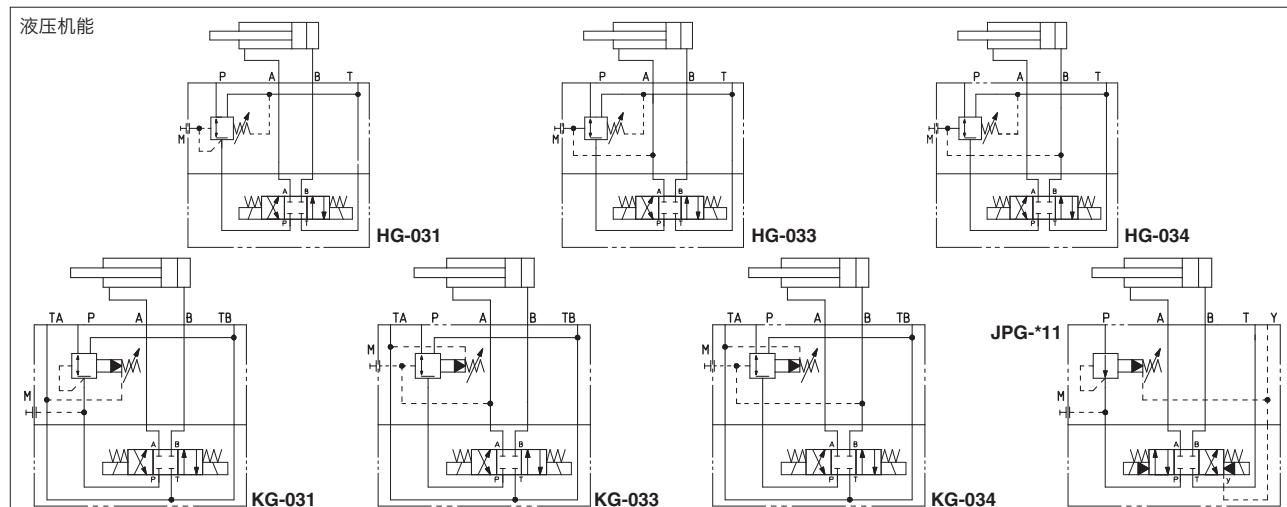
最大压力: **HG**为350bar

**KG**和**JPG**为315bar

### 1 型号

|   |                           |                           |  |
|---|---------------------------|---------------------------|--|
| <b>HG-0</b>   | <b>31</b>                 | <b>/ 210 / V / ** / *</b> | <b>密封材料, 见第 3 节:</b><br>- = NBR<br>PE = FKM<br>BT = HNBR |
| 叠压式减压阀, 规格:   |                           |                           |  |
| <b>HG-0</b> = 06通径 <b>JPG-2</b> = 16通径                    |                           |                           |  |
| <b>KG-0</b> = 10通径 <b>JPG-3</b> = 25通径                    |                           |                           |  |
| 机能, 见第 2 节<br>两通 (仅对JPG) :<br>11 = P口减压                   |                           |                           |  |
| 三通 (仅对HG-0和KG-0) :<br>31 = P口减压<br>33 = A口减压<br>34 = B口减压 |                           |                           |  |
| 压力范围  | <b>HG</b>                 | <b>KG</b>                 | <b>JPG</b>   |
| 32 = 3 - 32 bar   | <b>100</b> = 20 - 100 bar | <b>100</b> = 7 - 100 bar  | <b>100</b> = 6 - 100 bar                                 |
| 50 = 2 - 50 bar   | <b>210</b> = 50 - 210 bar | <b>210</b> = 8 - 210 bar  | <b>210</b> = 70 - 210 bar                                |
| 75 = 10 - 75 bar  |                           |                           |  |

### 2 液压特性



| 阀型号           | HG-03*/32 | HG-03*/50 | HG-03*/75 | HG-03*/100 | HG-03*/210 | KG-03*/100 | KG-03*/210 | JPG-211/100 | JPG-211/210 | JPG-311/100 | JPG-311/210 |
|---------------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| 最大流量 [l/min]  |           |           | 50        |            |            | 100        |            | 250         |             | 300         |             |
| 压力范围 [bar]    | 3 ~ 32    | 2 ~ 50    | 10 ~ 75   | 20 ~ 100   | 50 ~ 210   | 7 ~ 100    | 8 ~ 210    | 6 ~ 100     | 70 ~ 210    | 6 ~ 100     | 70 ~ 210    |
| 最大进油口压力 [bar] |           |           | 350       |            |            | 315        |            | 315         |             | 315         |             |
| T口最大压力 [bar]  |           |           | 160       |            |            | 160        |            | 160         |             | 160         |             |

### 3 主要特征, 密封和油液 - 关于表中未列出的油液, 请咨询我们技术部

|                          |  |                            |           |
|--------------------------|--|----------------------------|-----------|
| 安装位置                     | 任意位置   |                            |           |
| 安装面参数要求                  | 粗糙度指标Ra0.4 - 平面度0.01/100 (ISO 1101标准)  |                            |           |
| MTTFd 值符合EN ISO 13849 标准 | 150年, 详细信息见技术样本 P007   |                            |           |
| 遵守细则                     | RoHs指令2011/65/EU, 最新版2015/863/EU<br>REACH规则(EC)n° 1907/2006  |                            |           |
| 环境温度                     | 标准型 = -30°C ~ +80°C /PE选项 = -20°C ~ +70°C /BT 选项 = -40°C ~ +70°C   |                            |           |
| 密封, 推荐油液温度               | NBR密封 (标准型) = -20°C ~ +60°C, 带HFC油液 = -20°C ~ +50°C<br>FKM密封 (/PE选项) = -20°C ~ +80°C<br>HNBR密封 (/BT选项) = -40°C ~ +60°C, 带HFC油液 = -40°C ~ +50°C |                            |           |
| 推荐粘度                     | 15~100mm <sup>2</sup> /s - 最大允许范围2.8~500mm <sup>2</sup> /s   |                            |           |
| 油液最高清洁度                  | ISO 4406标准, 20/18/15 NAS 1638 9级, 同样可参阅www.atos.com或KTF样本中的过滤器部分   |                            |           |
| 油液种类                     | 适合密封类型   | 种类                         | 参考标准      |
| 矿物油                      | NBR, FKM, HNBR   | HL, HLP, HLPD, HVLP, HVLPD | DIN 51524 |
| 不含水抗燃油液                  | FKM  | HF DU, HF DR               | ISO 12922 |
| 含水抗燃油液                   | NBR, HNBR  | HFC                        |           |

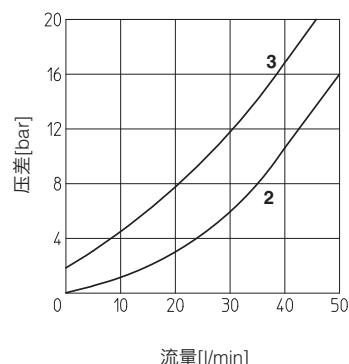
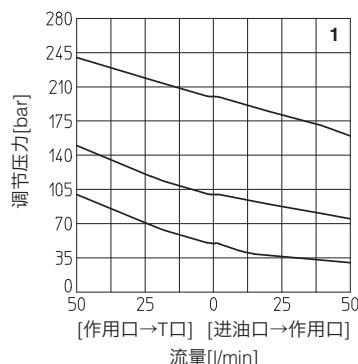
### 4 HG-03\*曲线

基于油温50°C, ISO VG46 矿物油

1 = 压力相对于流量变化:  
- 作用口和泄油口之间  
- 进油口和作用口之间

2 = 进油口和作用口之间的压差  
相对于流量变化

3 = 作用口和泄油口之间的压差  
相对于流量变化



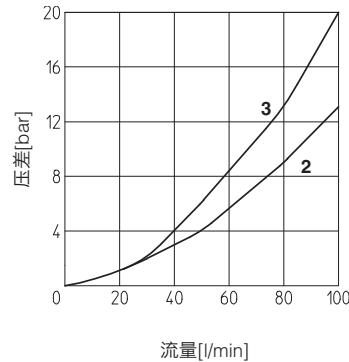
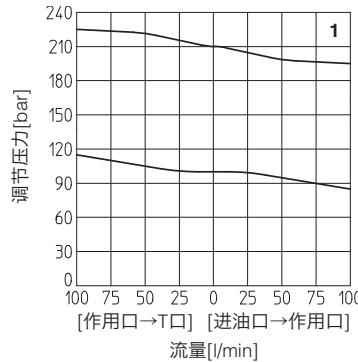
### 5 KG-03\*曲线

基于油温50°C, ISO VG46 矿物油

1 = 压力相对于流量变化:  
- 作用口和泄油口之间  
- 进油口和作用口之间

2 = 进油口和作用口之间的压差  
相对于流量变化

3 = 作用口和泄油口之间的压差  
相对于流量变化

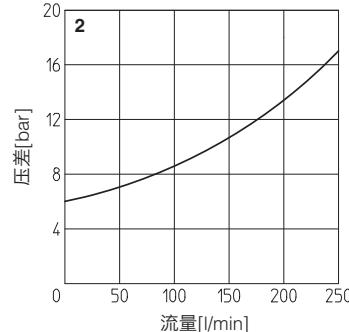
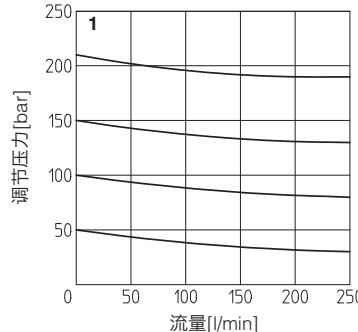


### 6 JPG-211曲线

基于油温50°C, ISO VG46 矿物油

1 = 进油口和作用口之间压力相对于流量变化

2 = 作用口和泄油口之间的压差相对于流量变化

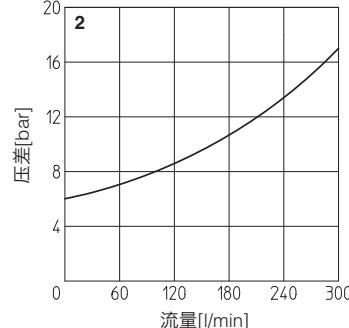
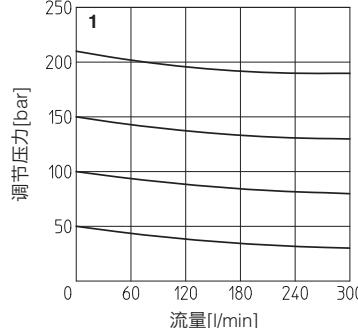


### 7 JPG-311曲线

基于油温50°C, ISO VG46 矿物油

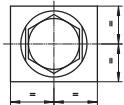
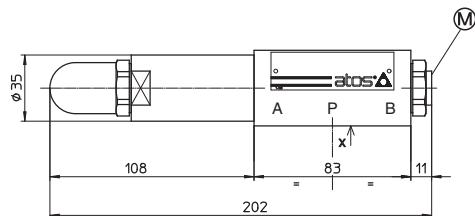
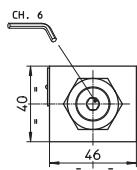
1 = 进油口和作用口之间压力相对于流量变化

2 = 作用口和泄油口之间的压差相对于流量变化



## 8 HG-0型阀安装尺寸[mm]

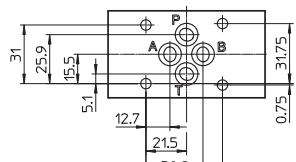
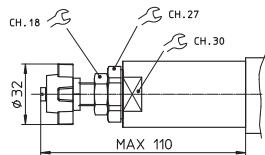
HG-03\*



(M) = 压力监测口= G 1/4"

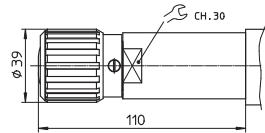
质量: 2.3 Kg

选项/V的调节装置



ISO 4401: 2005  
安装界面: 4401-03-02-0-05  
A, B, P, T口尺寸:  $\varnothing = 7.5$  mm  
密封圈: 4xOR108

选项/VF和/VS的调节装置

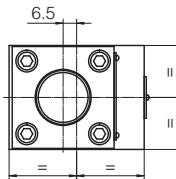
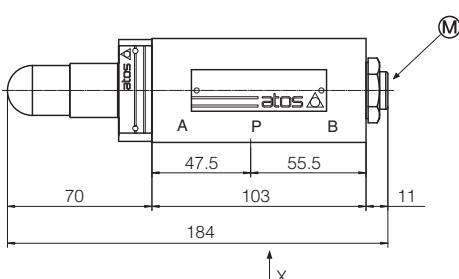
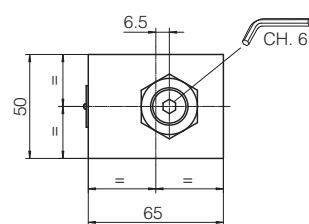


X端视图

紧固螺钉: 4个M5内六角螺钉, 长度由叠加阀的数量和型号决定。

## 9 KG-0型阀安装尺寸[mm]

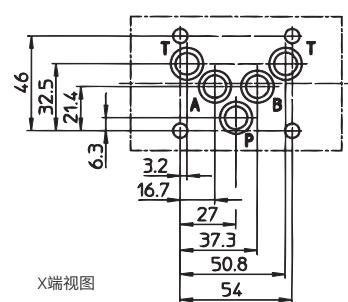
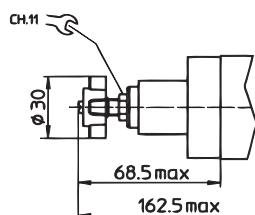
KG-03\*



(M) = 压力监测口= G 1/4"

质量: 3.8 Kg

选项/V的调节装置

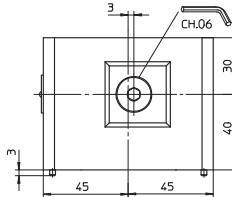
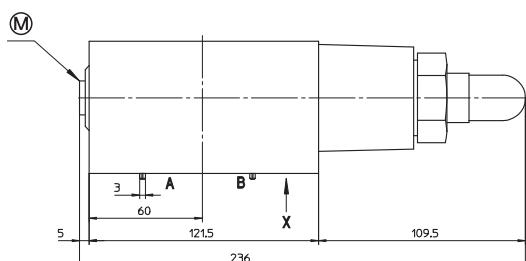
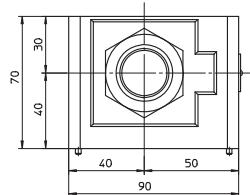


ISO 4401: 2005  
安装界面: 4401-05-04-0-05  
A, B, P, T口尺寸:  $\varnothing = 11.2$  mm  
密封圈: 5xOR2050

紧固螺钉: 4个M6内六角螺钉, 长度由叠加阀的数量和型号决定。

## 10 JPG-2型阀安装尺寸[mm]

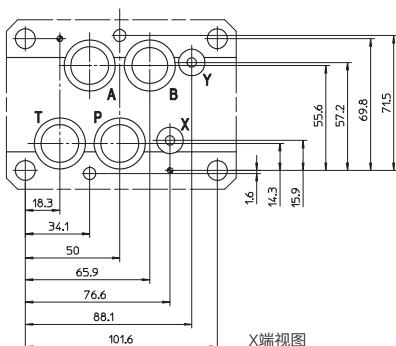
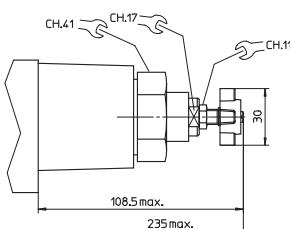
JPG-211



(M) = 压力监测口= G 1/4"

质量: 9 Kg

### 选项/V的调节装置



ISO 4401: 2005

安装界面: 4401-07-07-0-05

A, B, P, T口尺寸:  $\varnothing = 20\text{mm}$

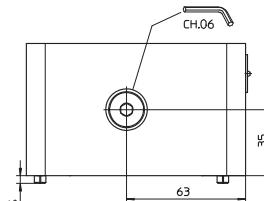
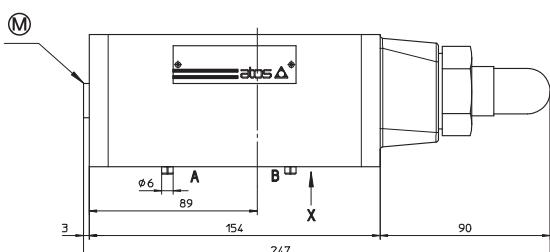
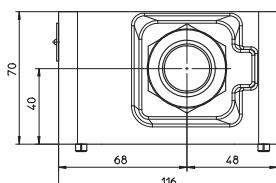
X,Y口尺寸:  $\varnothing = 7\text{mm}$

密封圈: 4xOR130, 2xOR109

紧固螺钉: 4个M10和2个M6内六角螺钉, 长度由叠加阀的数量和型号决定。

## 11 JPG-3型阀安装尺寸[mm]

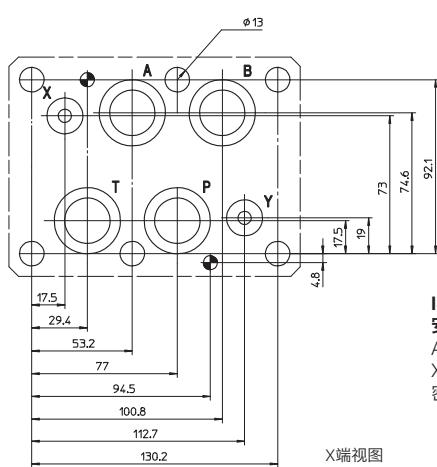
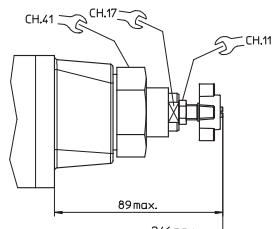
JPG-311



(M) = 压力监测口= G 1/4"

质量: 9 Kg

### 选项/V的调节装置



ISO 4401: 2005

安装界面: 4401-08-08-0-05(不带L口)

A, B, P, T口尺寸:  $\varnothing = 24\text{mm}$

X,Y口尺寸:  $\varnothing = 7\text{mm}$

密封圈: 4xOR4112, 2xOR3056

紧固螺钉: 6个M12内六角螺钉, 长度由叠加阀的数量和型号决定。