

带电磁起动的二位三通直 动式方向滑阀

RC 18136-08/06.12 1/10
替代对象：10.09

类型 KKDE (高性能)

组件大小 8
组件系列 A
最大工作压力 350 bar
最大流量 45 l/min



H7010

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特性曲线	
性能限制	
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可用单独组件	

特点

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有关可提供备件的信息, 请访问:
www.boschrexroth.com/spc

订货代码（不带线圈的阀）¹⁾

KKDE

R

8

A / H

V

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直动式电磁方向滑阀（导阀）

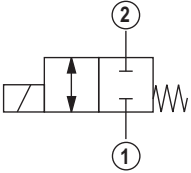
最大工作压力 350 bar

组件大小

2 个主油口

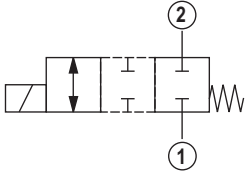
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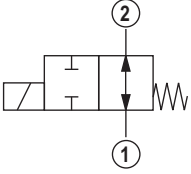
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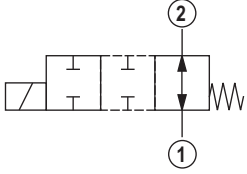
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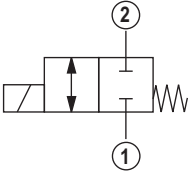
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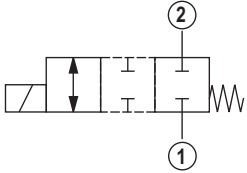
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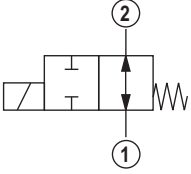
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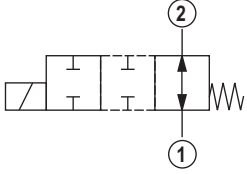
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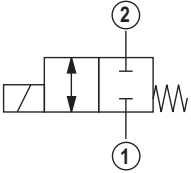
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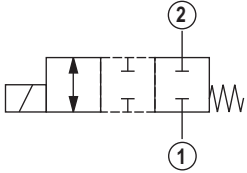
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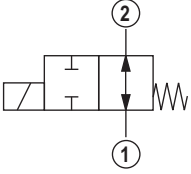
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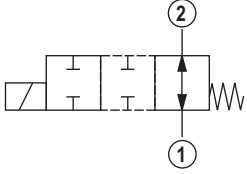
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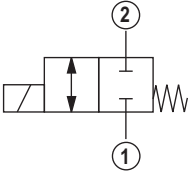
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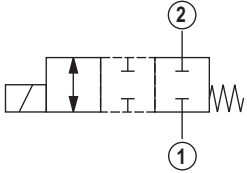
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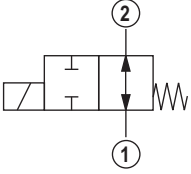
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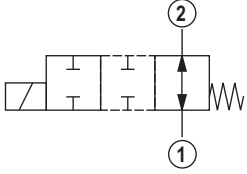
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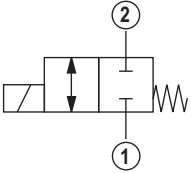
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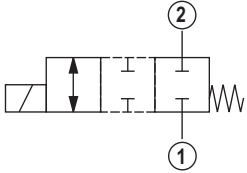
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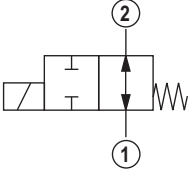
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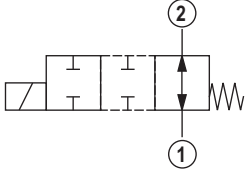
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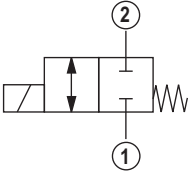
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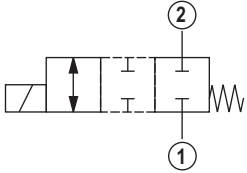
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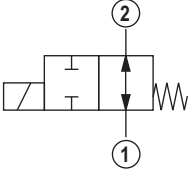
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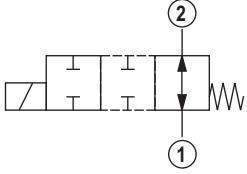
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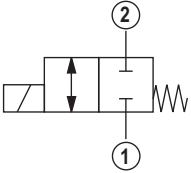
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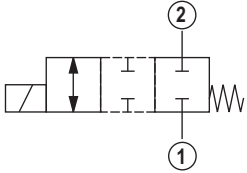
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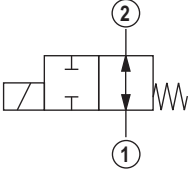
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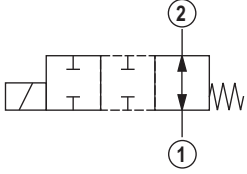
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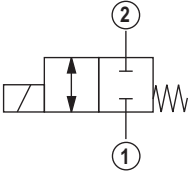
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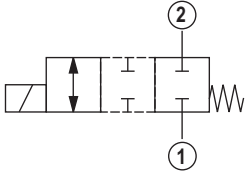
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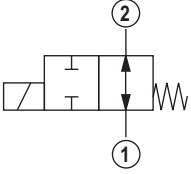
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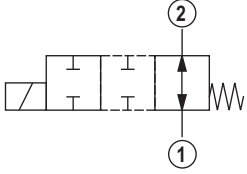
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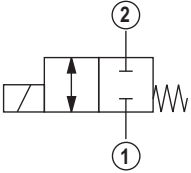
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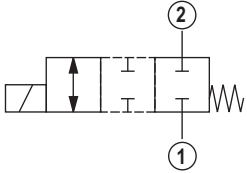
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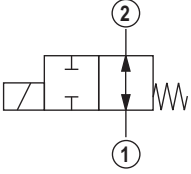
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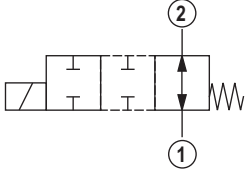
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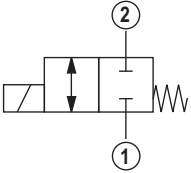
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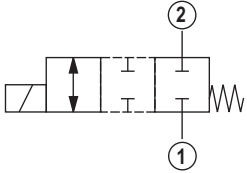
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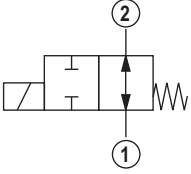
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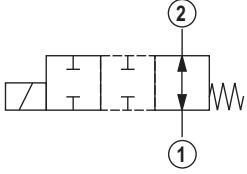
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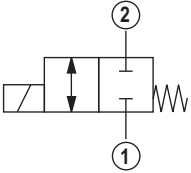
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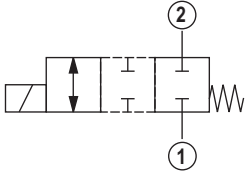
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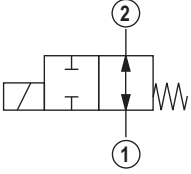
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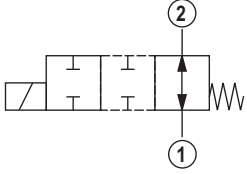
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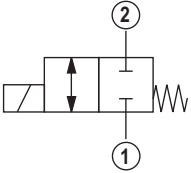
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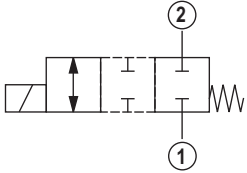
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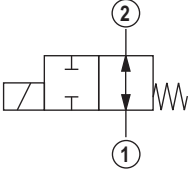
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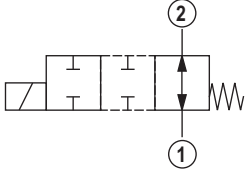
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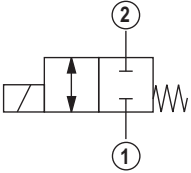
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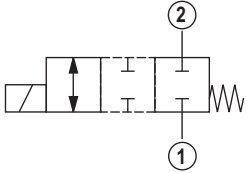
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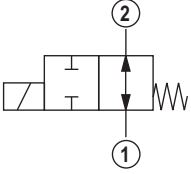
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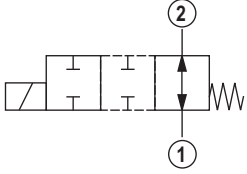
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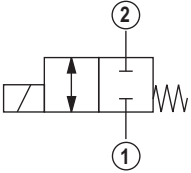
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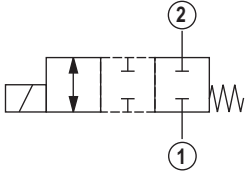
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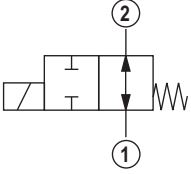
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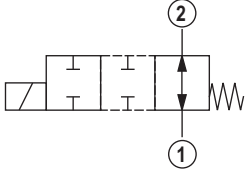
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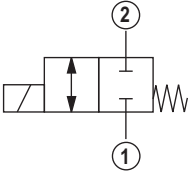
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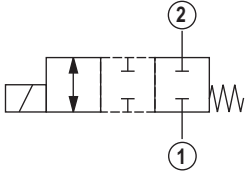
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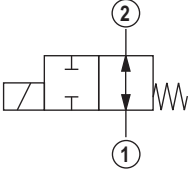
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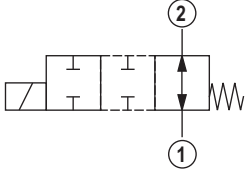
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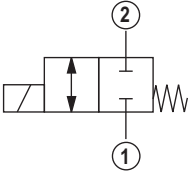
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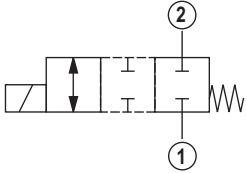
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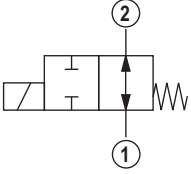
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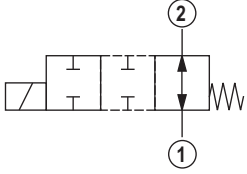
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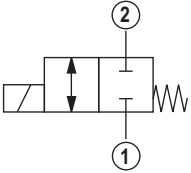
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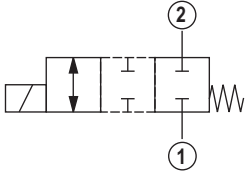
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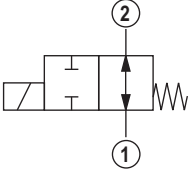
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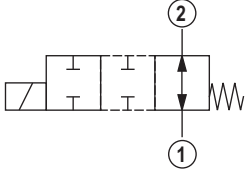
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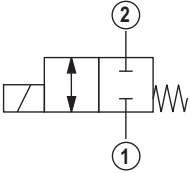
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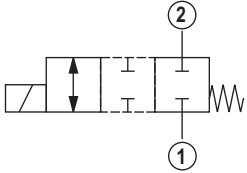
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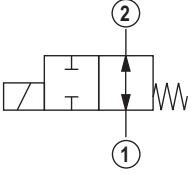
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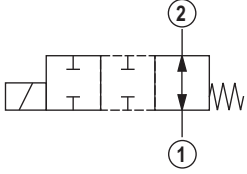
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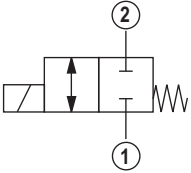
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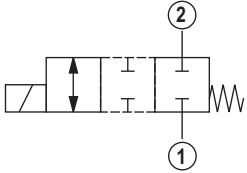
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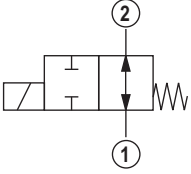
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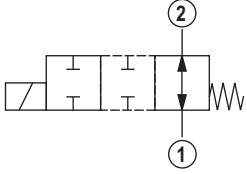
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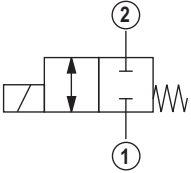
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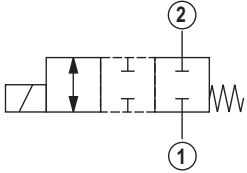
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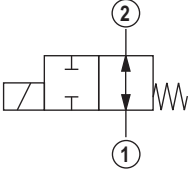
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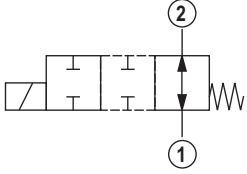
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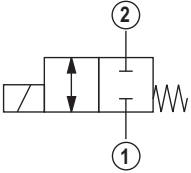
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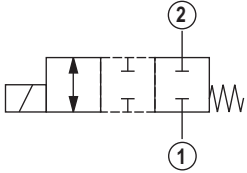
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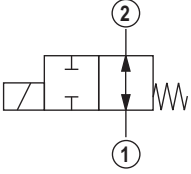
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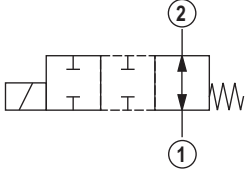
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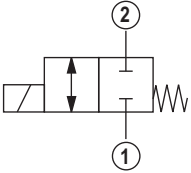
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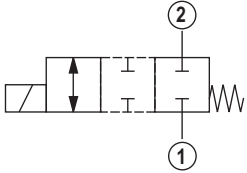
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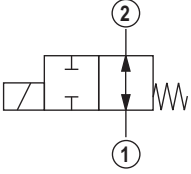
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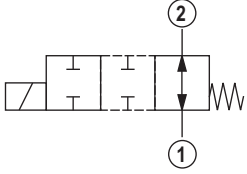
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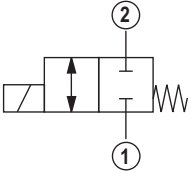
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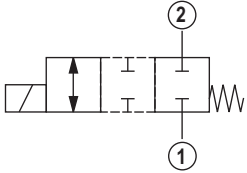
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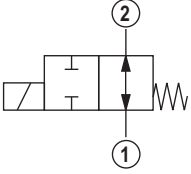
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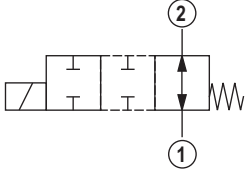
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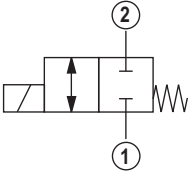
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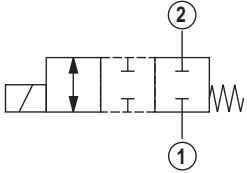
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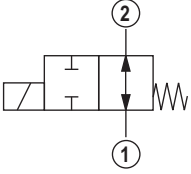
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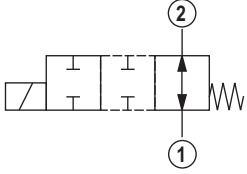
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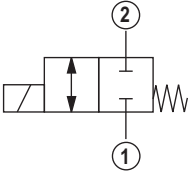
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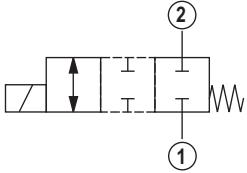
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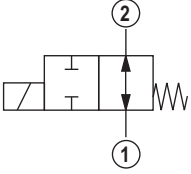
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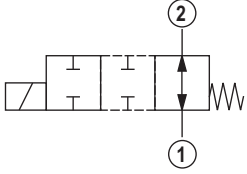
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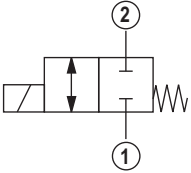
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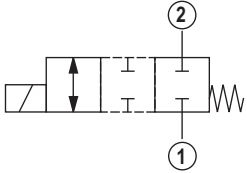
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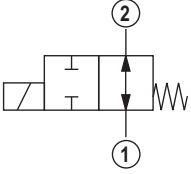
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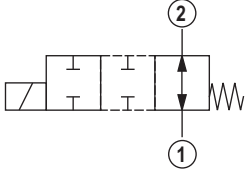
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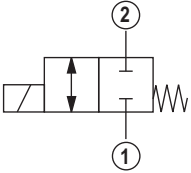
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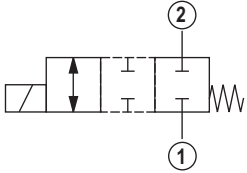
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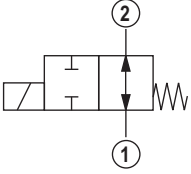
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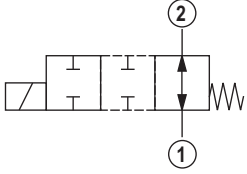
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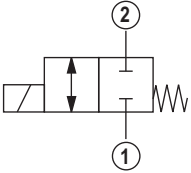
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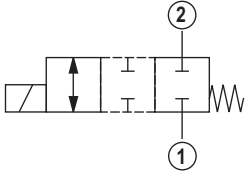
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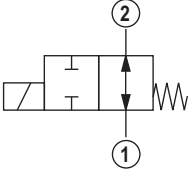
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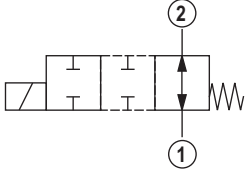
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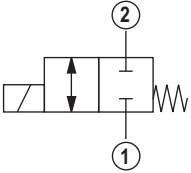
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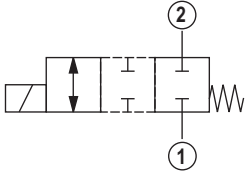
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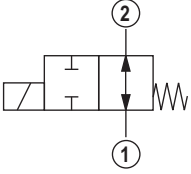
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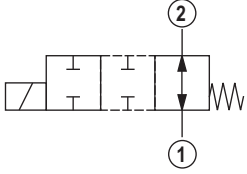
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机能，剖面，符号

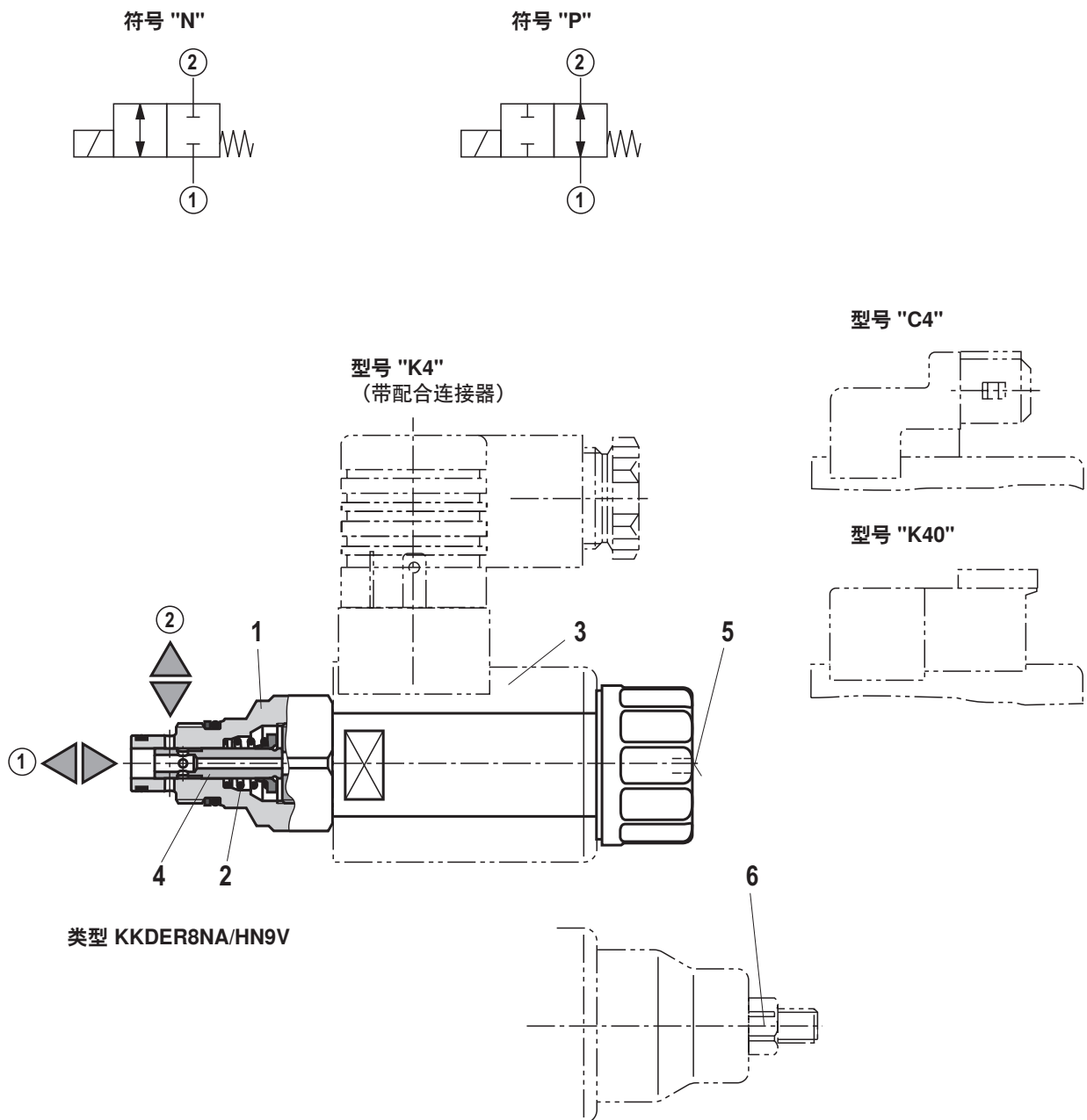
概述

二位二通方向滑阀是直动式压力补偿插装式阀。这些阀控制流体的启动，停止和方向，基本构成是：外壳（1），控制阀芯（4）和复位弹簧（5）。

功能

在断电情况下，控制阀芯（4）由复位弹簧（2）保持在初始位置。由湿式插脚直流线圈（3）起动控制阀芯（4）。利用相应的阀芯（N 和 P）来实现各种符号。主油口 ① 和 ② 适用于 350 bar 的工作压力时的连续负载，并且流体可流向两个方向（请参见符号）。

手动应急操作（5）允许不给线圈通电而切换阀。在拧入式 "N10"（6）中同样可用（请参阅第 2 页）。



技术数据（有关这些参数之外的应用，请务必向我们咨询！）

一般

重量	– 阀	kg	0.30
	– 线圈	kg	0.25
安装位置			任意
环境温度范围		°C	–40 至 +110

液压

最大工作压力		bar	350（所有油口）
最大流量		l/min	45
液压油			符合 DIN 51524 规定的矿物油（HL, HLP）；符合 VDMA 24568 规定的可快速生物降解液压油（另请参阅 RC 90221）；HETG（菜籽油）；HEPG（聚乙醇）；HEES（合成酯）；可应要求提供其它液压油
液压油温度范围		°C	–40 至 +80
粘度范围		mm ² /s	4 至 500
液压油最大允许污染度 - 符合 ISO 4406 (c) 规定的清洁度等级			等级 20/18/15 ¹⁾
负载循环数			1000 万（压力为 350 bar 时）

电气

电压类型			直流电压
电源电压 ²⁾		V	12 DC ; 24 DC
相对于环境温度的电压温漂			请参阅第 5 页的特性曲线
功耗		W	22
持续通电率		%	请参阅第 5 页的特性曲线
最高线圈温度 ³⁾		°C	150
切换时间符合 ISO 6403 标准 （水平线圈）	– 接通	ms	≤ 80
	– 关闭	ms	≤ 50
最大切换频率		cy/h	15000
符合 VDE 0470-1 （DIN EN 60529） DIN 40050-9 的防护等级	– 型号 "K4"		IP 65, 安装和锁定配合连接器
	– 型号 "C4"		IP 66, 安装和锁定配合连接器
			IP 69K, 带力士乐配合连接器（材料编号 R901022127）
	– 型号 "K40"		IP 69K, 安装和锁定配合连接器

¹⁾ 在液压系统中必须遵循规定的组件清洁度等级。有效的过滤可防止发生故障，同时还可增加组件的使用寿命。

有关过滤器的选择，请参阅数据表 RC 50070, RC 50076, RC 50081, RC 50086, RC 50087 和 RC 50088。

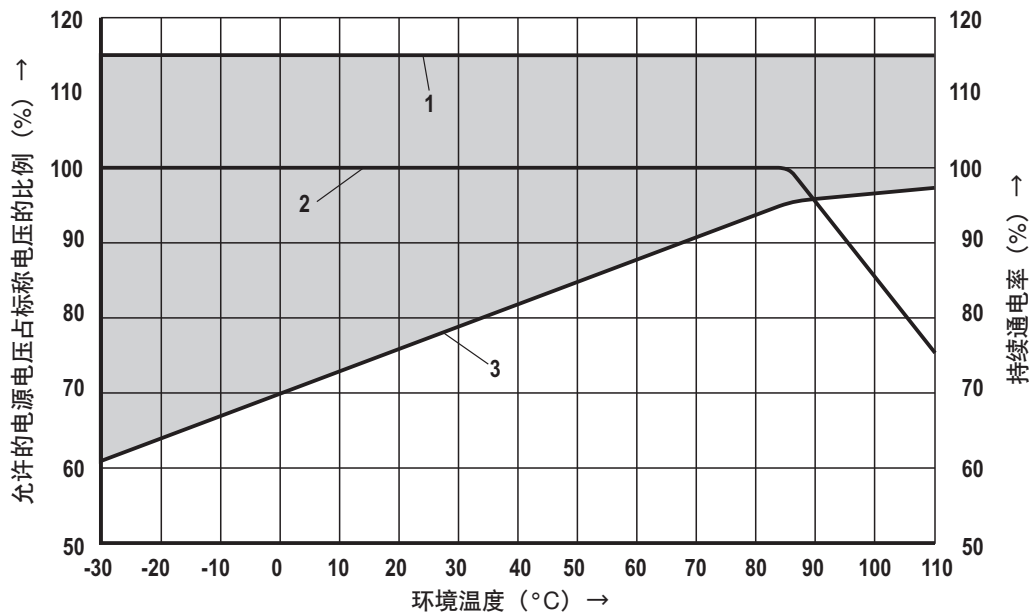
²⁾ 可应要求提供其它电压

³⁾ 由于电磁线圈发生的表面温度，需要遵守 ISO 13732-1 和 EN 982 标准！

在电气连接 "K4" 处，必须正确连接保护性接地导线（PE 线）。

相对于环境温度的电压容差；持续通电率

电压范围和持续通电率视环境温度而定



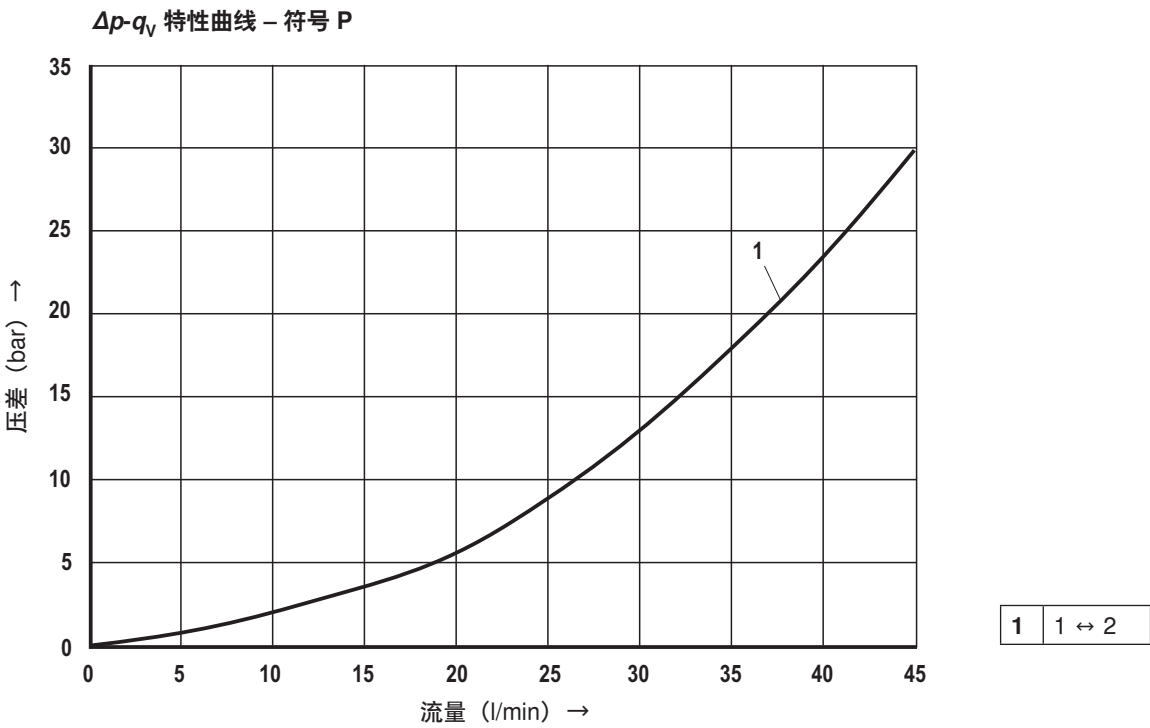
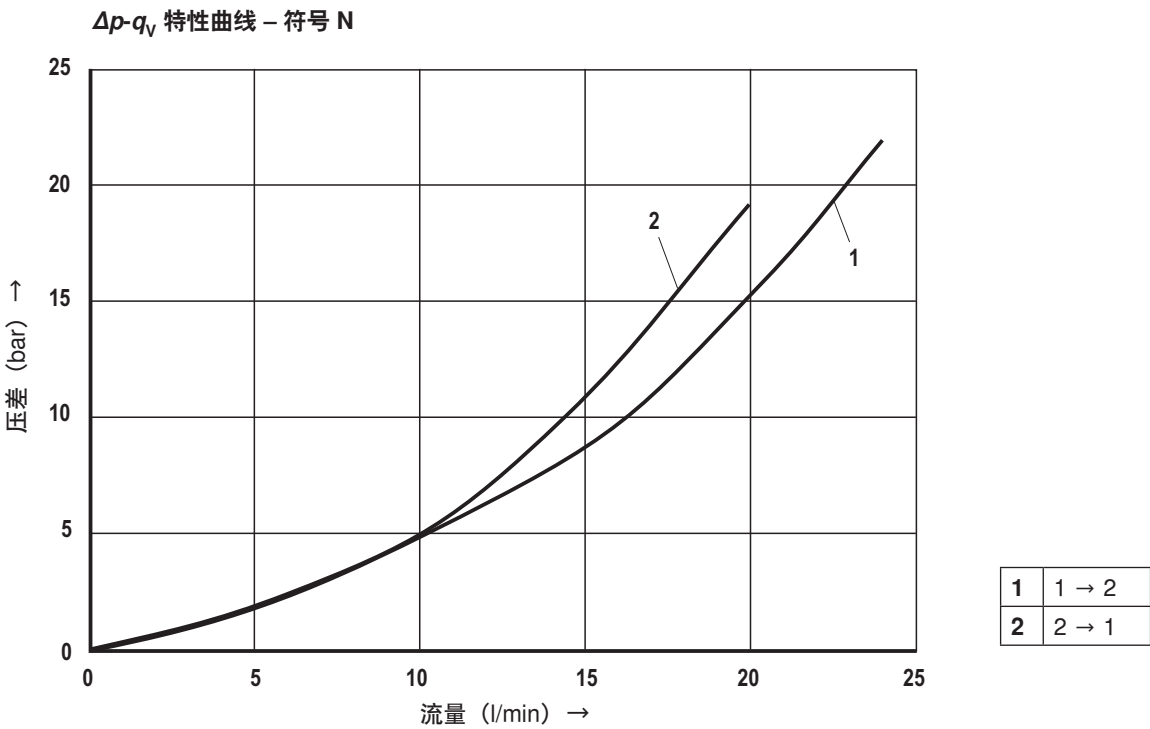
1 最大电压

2 持续通电率

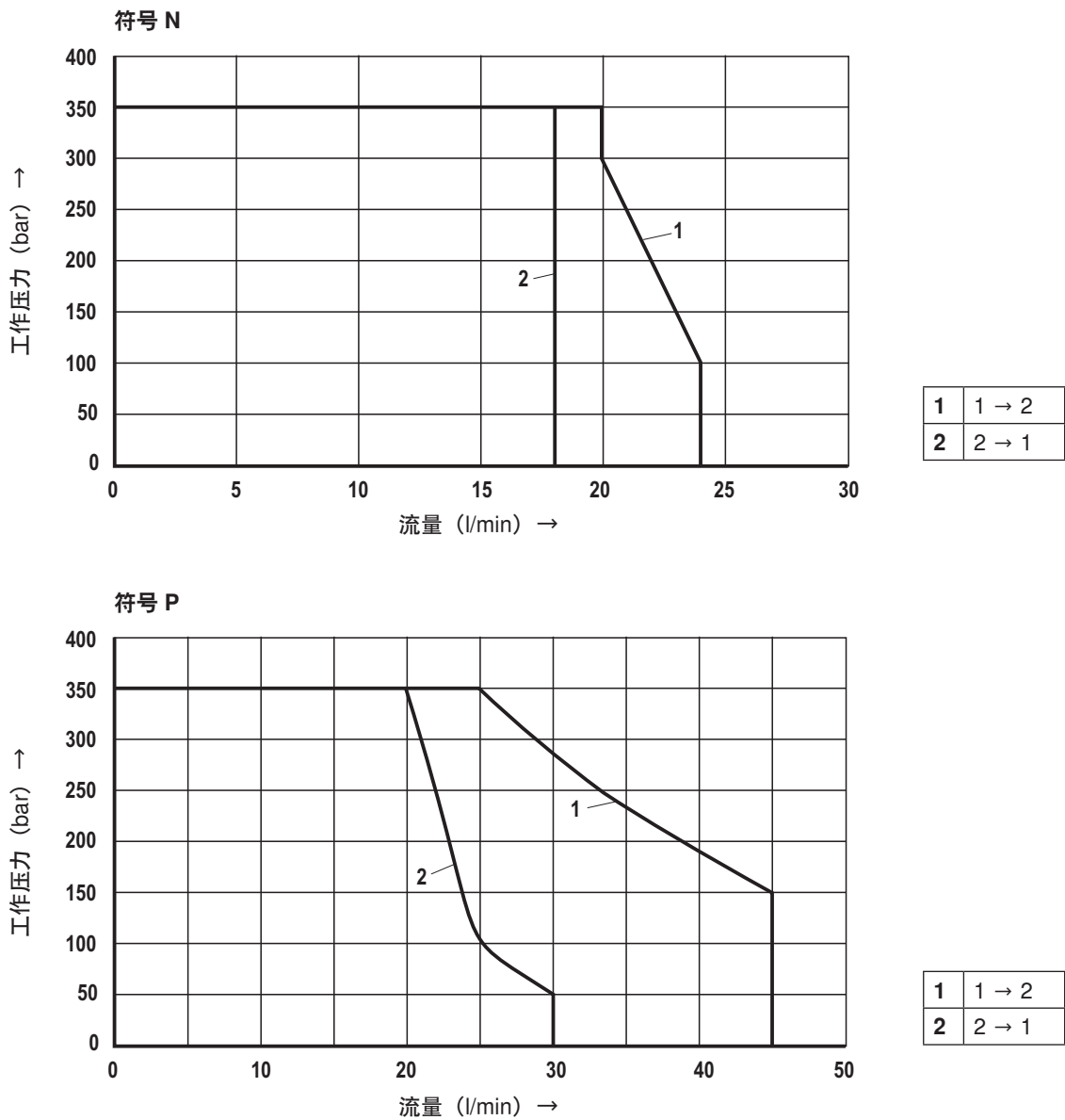
3 最小响应电压

允许的电源电压范围

特性曲线（使用 HLP46 测量， $t_{油} = 40\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ 和 24 V 线圈）

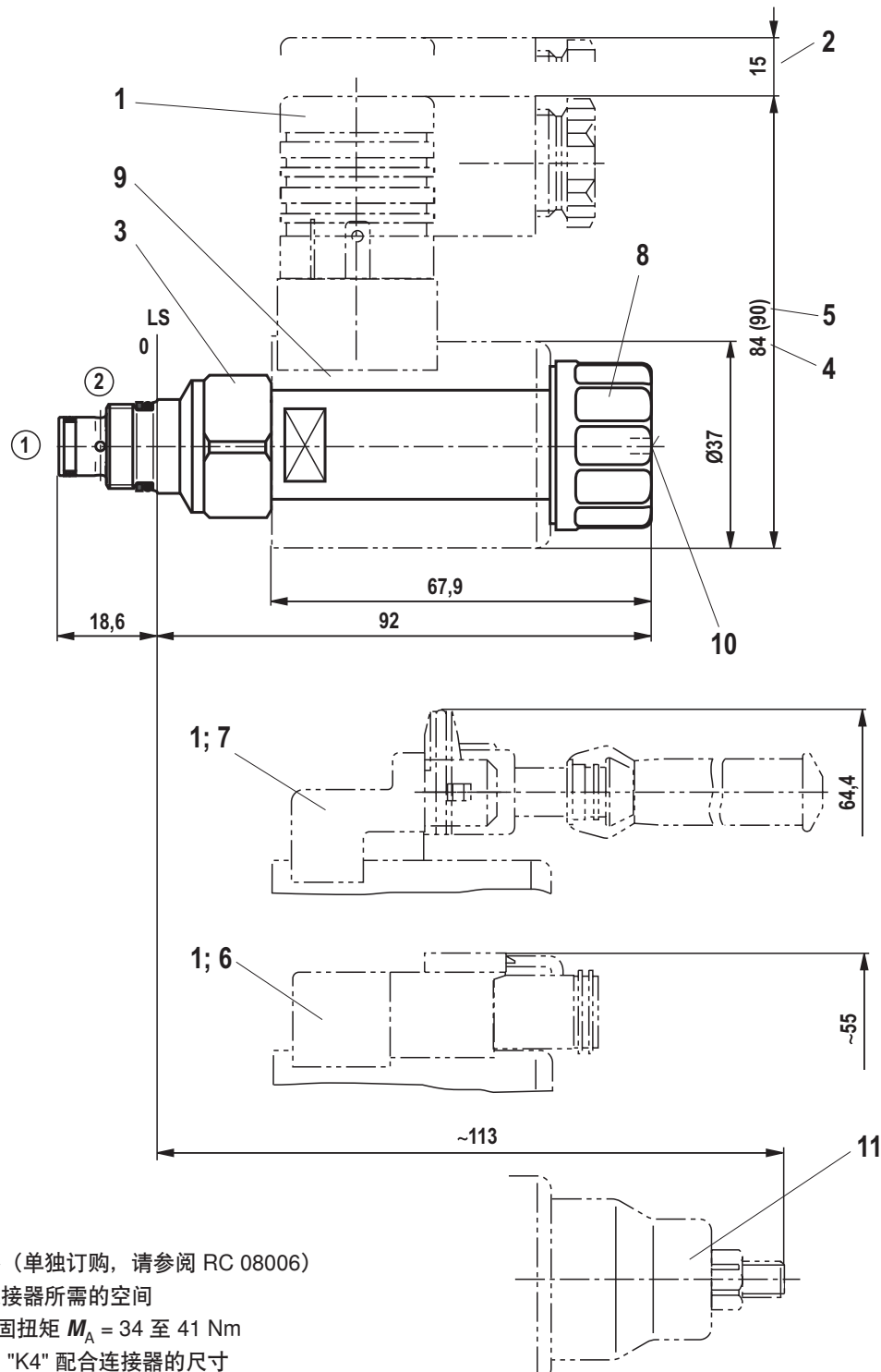


性能限制（使用 HLP46 测量， $\vartheta_{油} = 40\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$ 和 24 V 线圈）



注意！
性能限制是在以下条件下确定的：线圈处于工作温度下且 10% 欠电压。

单元尺寸 (尺寸单位为 mm)



1 配合连接器 (单独订购, 请参阅 RC 08006)

2 拆下配合连接器所需的空間

3 SW24, 紧固扭矩 $M_A = 34$ 至 41 Nm

4 不带电路的 "K4" 配合连接器的尺寸

5 带电路的 "K4" 配合连接器的尺寸 ()

6 型号 "K40"

7 型号 "C4"

8 螺母, 紧固扭矩 $M_A = 5^{+1}$ Nm

9 线圈 (单独订购, 请参阅第 2 页)

10 隐式手动应急操作 "N9" (可选)

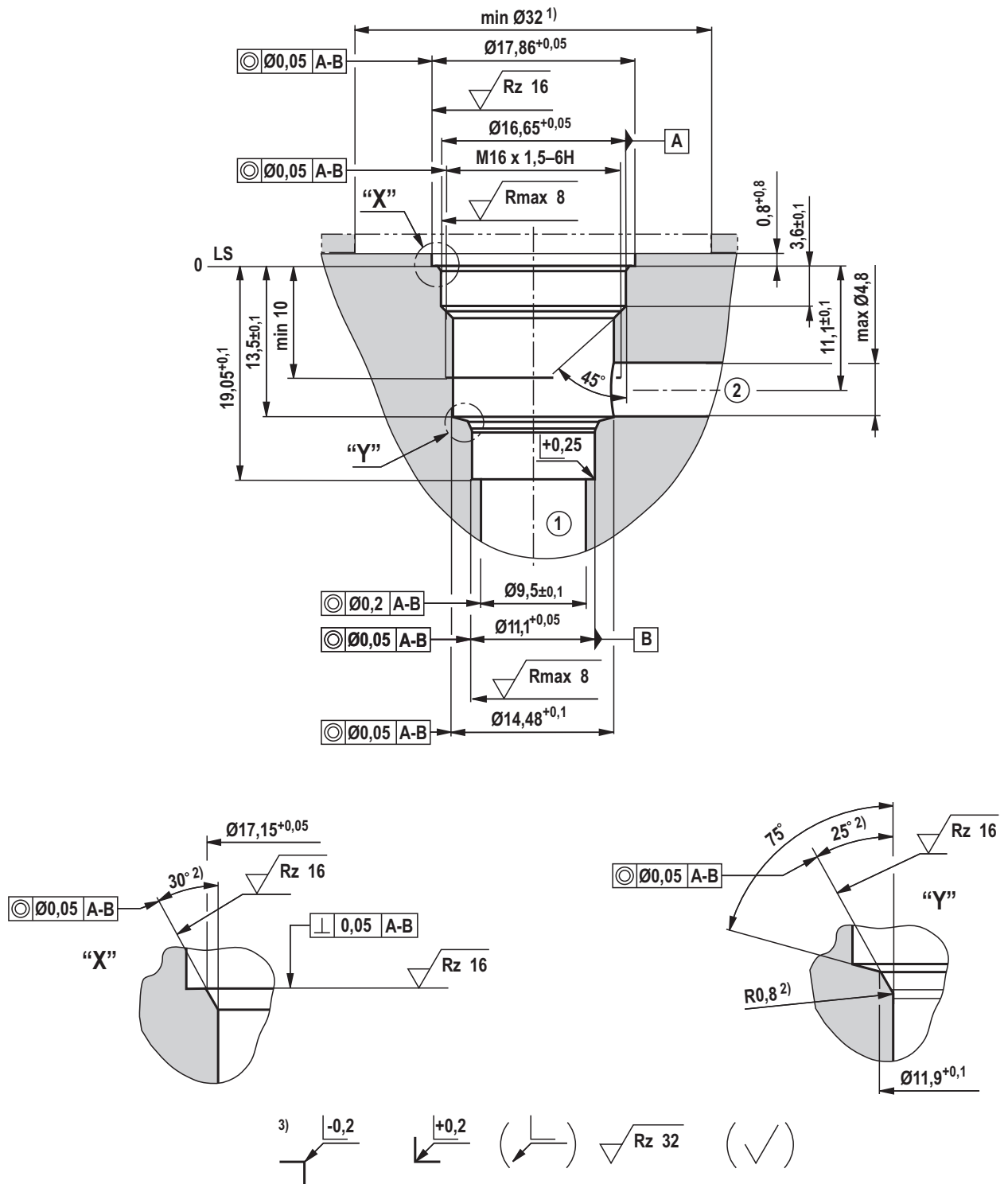
11 拧入式手动应急操作 "N10"
(单独订购, 请参阅第 2 页)

① = 主油口 1

② = 主油口 2

LS = 定位轴肩

安装孔 R/T-8A ; 2 个主油口 ; 螺纹 M16 x 1.5 (尺寸单位为 mm)



1) 带扩孔, 偏离 T-8A

2) 所有密封圈的插入面均经过倒圆并且无毛刺

3) 与 T-8A 不同

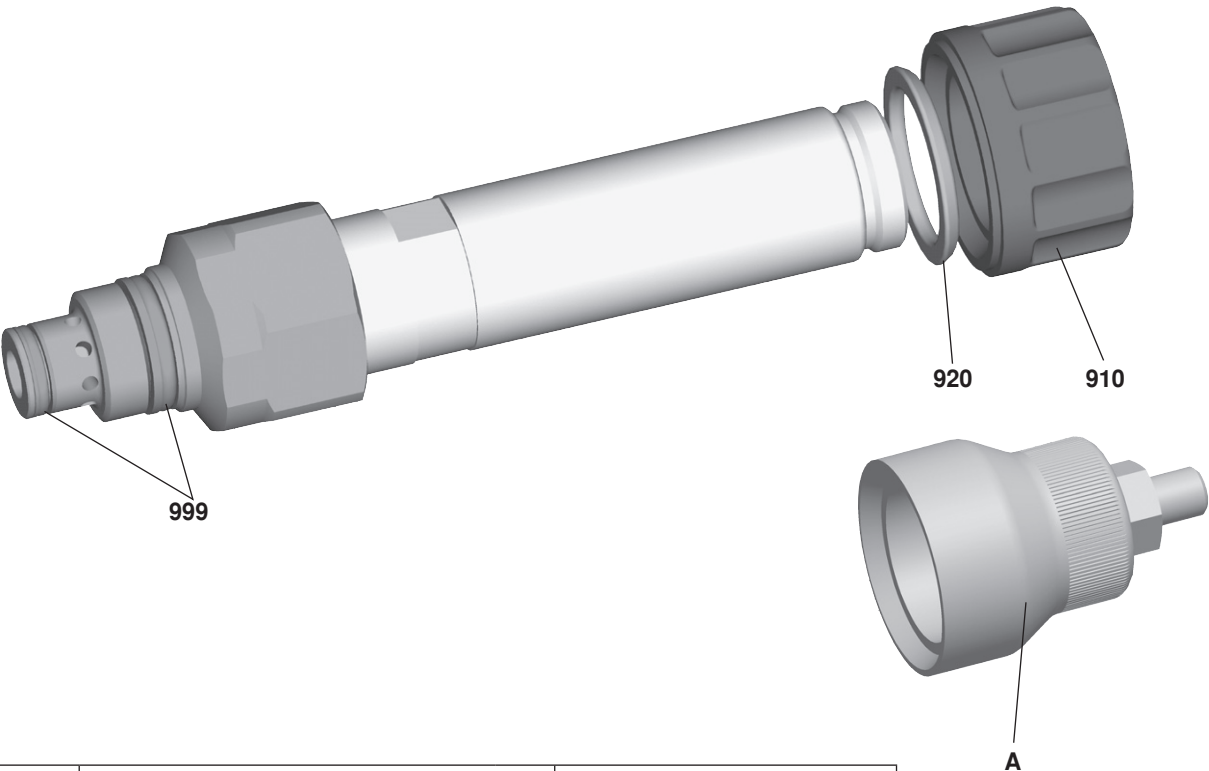
① = 主油口 1

② = 主油口 2

LS = 定位轴肩

所有角度的公差 $\pm 0.5^\circ$

可用单独组件



条目	说明	材料编号
910	螺母	R900991453
920	适用于极性管的 O 形环	R900007769
999	阀的密封套件	R961003237
A	手动应急操作 "N10" ¹⁾	R901051231

线圈，单独订购，请参阅第 2 页

¹⁾ 仅用于订货代码 "N9"，请参阅第 2 页

注意事项

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注意事项
