

直动式溢流阀, 行走马达溢流阀
Directly Relief Valves, Travel Motor Overflow Valves
型号Model: JRD10-05

描述Description

行走马达溢流阀主要用于控制液压系统中行走马达的流量和压力, 保证系统的稳定运行。当液压系统中的流量超过设定值时, 溢流阀会自动调整流量, 使其保持在设定范围内, 避免行走马达因过载而损坏。

The traveling motor relief valve is mainly used to control the flow and pressure of the traveling motor in the hydraulic system to ensure the stable operation of the system. When the flow in the hydraulic system exceeds the set value, the overflow valve will automatically adjust the flow to keep it within the set range to avoid the damage of the walking motor due to overload.

工作原理Operation

当液压系统中的压力超过设定值时, 压力通过溢流阀的控制口作用在阀芯上, 使阀芯受力方向发生改变。当压力大于弹簧力时, 阀芯会被推动, 溢流口打开, 多余的液压油流经溢流口返回油箱。当液压系统中的压力降低到设定值以下时, 弹力会将阀芯复位, 溢流口关闭, 液压油重新进入行走马达, 从而实现流量和压力的控制。

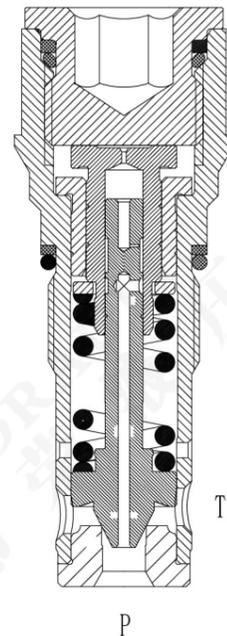
When the pressure in the hydraulic system exceeds the set value, the pressure acts on the valve core through the control port of the overflow valve, which changes the stress direction of the valve core. When the pressure force is greater than the spring force, the valve core will be pushed, the overflow port will be opened, and excess hydraulic oil will flow through the overflow port and return to the oil tank. When the pressure in the hydraulic system drops below the set value, the elastic force will reset the valve core, the overflow port will be closed, and the hydraulic oil will re-enter the walking motor, thus realizing the control of flow and pressure.

特点Features

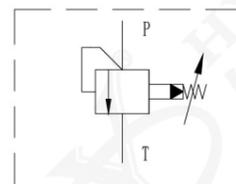
- 调节器确保弹簧不会被压实。 · The regulator ensures that the spring will not be compacted.
- 可选的可选压力范围达150bar (2175psi)。 · Optional optional pressure range up to 150bar (2175psi).
- 阀芯和阀套硬质处理、耐用。 · The valve core and valve sleeve are hard to handle and durable.
- 压力变化响应快。 · Fast response to pressure change.
- 工业常规阀孔。 · Industrial conventional valve hole.

技术参数Specifications

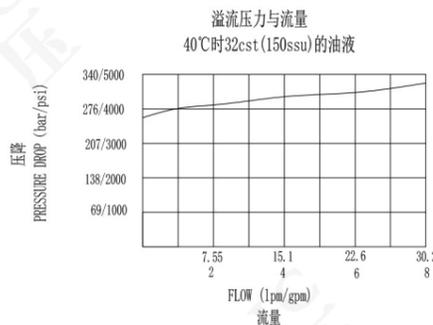
最高工作压力: 350bar (5075psi)
 流量: 参见性能曲线
 内泄漏量: 在75%的开启压力下, 泄漏量 ≤ 30mL/min
 开启压力定义: 当流量达到公称流量的2.5%时的压力测量值bar
 闭合压力: 开启压力的90%
 过滤精度: 25 μm
 一次开启压力: 50%~70%的开启压力
 一次泄压时间: 0.2~0.4S
 使用温度: -40℃~120℃ (标准丁腈橡胶)
 -26℃~204℃ (氟橡胶)
 介质: 粘度介于7.4~420cSt (50~2000) ssu的矿物油或具有润滑作用的合成油
 标准压力范围: 200~350bar (2900~5075psi)
 Max. Working Pressure: 350bar (5075psi)
 Flow: See performance curve.
 Internal leakage: Under the opening pressure of 75%, the leakage is ≤ 30mL/min.
 Opening Pressure Definition: Pressure measurement when the flow reaches 2.5% of the nominal flow.
 Closing Pressure: 90% of opening pressure
 Filtering Accuracy: 25 μm.
 Primary Opening Pressure: 50%~70% opening pressure.
 Primary Pressure Relief Time: 0.2~0.4S
 Service Temperature: -40℃~120℃(NBR), -26℃~204℃(FKM)
 Medium: Mineral oil with viscosity of 7.4~420 CST (50~2000) ssu or synthetic oil with lubricating function.
 Standard Pressure Range: 200~350bar (2900~5075psi)



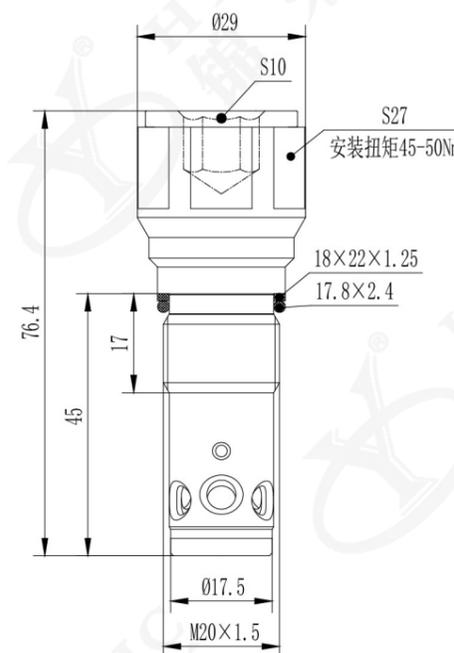
符号Symbol



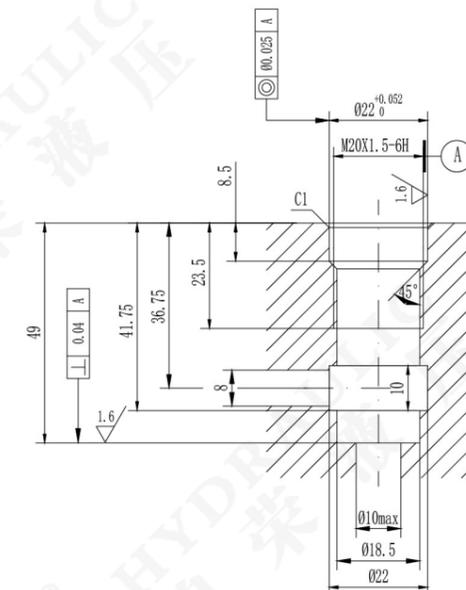
性能曲线Characteristic



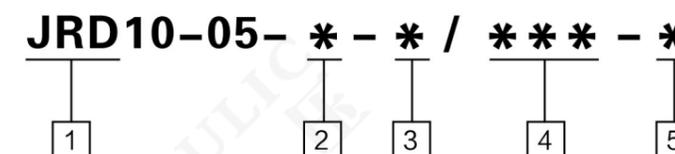
安装尺寸Dimensions



插孔Cavity



订购选型To Order



- ① 型号Model
 JRD = 直动式溢流阀
 Directly Relief Valves
- ② 调节选件Control
 L = 螺杆Screw
 C = 防调Anti-adjustment
 K = 调扭Torque Adjustment
 F = 六角头锁钮
 Hexagon Lock Button
 O = 螺杆封盖Screw Cap
- ③ 弹簧调压范围Spring Ranges
 A = 200~350bar
 (2900~5075psi)
- ④ 调定压力Setting In Bar
 可调节或指定压力, 例如:
 190=190bar
 170=170bar
 The pressure can be adjusted or specified, Example:
 190=190bar
 170=170bar
- ⑤ 密封件Seal Kits
 N = 丁腈橡胶(NBR)
 V = 氟橡胶(FKM)