

ZY-PC10-30 液控单向阀
ZY-PC10-30 Check, Pilot-to-Open
描述 DESCRIPTION:

螺纹插装式液控单向阀, 用于单向截止或负载保持油路。

A screw-in, cartridge-style, pilot-operated, hydraulic check valve for use in blocking or load-holding circuits.

工作原理 OPERATION:

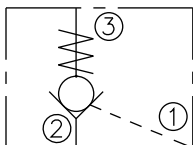
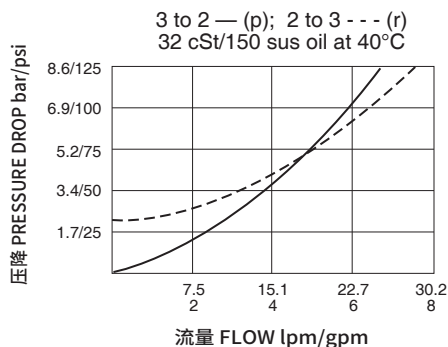
ZY-PC10-30 允许油液从 ② 流向 ③, 同时截止油液反向流动。当 ① 处压力足够大时, 油液将从 ③ 流向 ②。该单向阀的液控比为 4:1, 这表示 ① 处压力至少应为 ③ 处负载压力的 1/4, 才能打开阀。在静态或无负载的情况下, 弹簧压力确保阀口关闭。提供带密封液控活塞选项。

The **ZY-PC10-30** allows flow from 2 to 1, while normally blocking flow from 3 to 2. Flow will be allowed from 3 to 2 when sufficient pressure is applied at 1. The cartridge has a 3:1 pilot ratio, meaning that at least one-third of the load pressure held at 3 is required at 1 to open the valve.

The check is spring-biased to assure holding in static or no-load conditions. A sealed pilot piston option is available.

机能符号 SYMBOLS:

ISO:


性能图 PERFORMANCE: (Cartridge Only)

特性 RATINGS:

工作压力: 240 bar (3500 psi)

流量: 参见性能图

内部泄漏: ③ 流向 ②: 在 240 bar (3500 psi) 时, 最大为 0.25 毫升/分钟 (2 滴/分钟)

② 流向 ①: 在 240 bar (3500 psi) 时, 最大为 115 毫升/分钟 (7 立方英寸/分钟) (无密封活塞圈)

② 流向 ①: 无泄露 (带密封活塞圈)

液控比: 4:1

单向阀弹簧预压力: 2.07 bar (30 psi); 使用密封活塞: 最小为 6.2 bar (90 psi)

温度范围: -40°C ~ 120°C (标准丁腈橡胶密封)

介质: 粘度介于 7.4~420 cSt (50~2000 sus) 的矿物油或具有润滑作用的合成油

阀孔: ZY-VC10-3;

Operating Pressure: 240 bar (3500 psi);

Flow: See Performance Chart;

Internal Leakage: 3 to 2: 0.25 ml/minute (5 drops/minute)

2 to 1 without sealed piston: 115 ml/minute (7 cu. in./minute)

2 to 1 with sealed piston: zero leakage

Pilot Ratio: 4:1

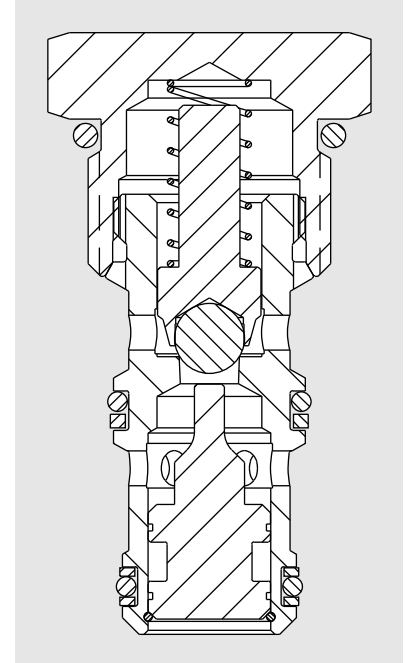
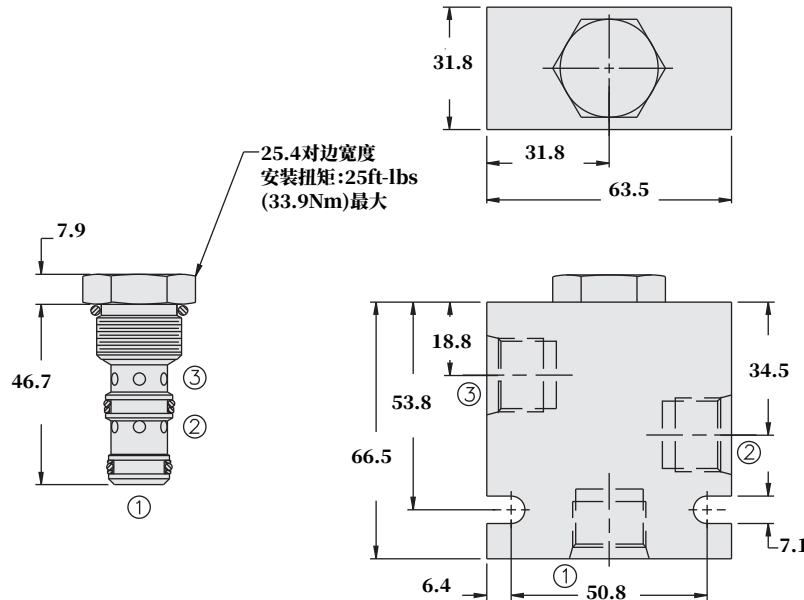
Check Spring Bias: 1.72 bar (25 psi) standard; With sealed piston option: 6.2 bar (90 psi) minimum

Temperature: -40 to 120 °C with standard Buna seals

Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus);

Cavity: ZY-VC10-3;

尺寸 DIMENSIONS:



特点 FEATURES:

- 阀座经硬质处理, 耐用, 低泄漏。
- 可选密封活塞。
- 可选压力范围。
- 工业常规阀孔。

- Hardened seat for long life and low leakage.
- Optional sealed piston.
- Optional spring ranges.
- Industry common cavity.

订购型号 TO ORDER:

ZY-PC10-30

(Porting) 阀块油口

(For ordering valve block models, see:6.0.0.00)

订购阀块型号请参见:6.0.0.00

(Seals)密封材料

Buna N(Sta)
丁腈橡胶(标准型)

(Buna N with Sealed Piston:
6.2 bar (90 psi) minimum spring)
丁腈橡胶(带密封活塞圈):
最低弹簧压力为 6.2 bar (90 psi)

(Fluorocarbon)氟橡胶

(Fluorocarbon with Sealed Piston:
6.2 bar (90 psi) minimum spring)
氟橡胶(带密封活塞圈):
最低弹簧压力为 6.2 bar (90 psi)

**弹簧规格
Bias Spring**

(Blank) 空白 1.72 bar/25 psi标准型(Std.)

70 4.8 bar/70 psi

90 6.2 bar/90 psi

120 8.2 bar/120 psi

270 18.3 bar/270 psi

Note: Other bias spring pressures available for OEM applications. Consult factory.

* PC10-30 valves built with standard 30 psi spring are not stamped with spring rating. Other spring ratings are stamped on valve.

注: 针对 OEM 应用提供其它复位弹簧压力。请联系工厂。
*配有标准 25 psi 弹簧的 PC08-30 单向阀没有标出弹簧额定值。其它弹簧额定值在阀门上标出。

N

NS

V

NV