

ZY-PV72-30 比例型流量控制插装阀

ZY-PV72-30 Proportional Flow Control Cartridge

描述 DESCRIPTION:

电磁驱动、电气参数可变、三通、压力补偿、阀芯式、断电常闭、比例流量控制阀。可以用作带压力补偿的优先流量调节阀, 调节和旁通流量, 当封闭旁通线路(油口 ②)时, 也可以用作2通节流型压力补偿流量调节阀。

A solenoid-operated, electrically-variable, three-port, pressure-compensated, spool type, normally closed when de-energized, proportional flow control valve. It can be used as a priority-type flow regulator with pressure-compensated, regulated and bypass flow. It can also be used as a restrictive-type 2-way, pressure-compensated flow regulator when the bypass line (port 2) is blocked.

工作原理 OPERATION:

ZY-PV72-30 将调节油口 ③ 的流量, 不受系统工作压力的影响。随着电磁阀中电流的增大, ZY-PV72-30 的输出流量也将增大。

注: 如果设备的优先流量油口被外部阀封闭, 将该阀用于旁通流量控制时, 若不使优先油口发生少量泄漏, 旁通压降就会增大。

应急手控选件的操作: 启动时: 顺时针旋转约 1 圈可达到起点。继续再旋转约 5 圈可以达到最大位移。结束时: 逆时针旋转约 6 周至正向停止。

The **ZY-PV72-30** will regulate flow out of port 3 regardless of system working pressure. With an increasing current applied to the solenoid, the ZY-PV72-30 will increase output flow.

Note: When used as a bypass flow control in applications where the priority flow port will be blocked by external valving, bypass pressure drop will increase unless a small amount of leakage is provided for the priority port. Consult factory.

Operation of Manual Override: To Engage: Turn clockwise approximately 1 turn to reach start point. Continue another approximately 5 turns to full shift.

To Disengage: Turn counterclockwise approximately 6 turns to positive stop.

特性 RATINGS:

工作压力: 油口 ①: 240 bar (3500 psi); 油口 ② 和 ③: 207 bar (3000 psi)

三通模式的调节流量: 范围 A: 57 lpm (15 gpm); 范围 B: 38 lpm (10 gpm)

三通模式的最大输入流量: 范围 A 和 B: 114 lpm (30 gpm)

内部泄漏: 范围 A: 53 lpm (14 gpm); 范围 B: 31 lpm (8 gpm)

注意: 要增大二通流量控制的流量

内部泄漏: 阀全闭时, 207 bar (3000 psi) 压力时为 0.38 lpm (0.1 gpm)。

电气特性 (Electrical): 2 种电压标准 (2 standard voltage ratings)

线圈电压 Coil Voltage	阈值电流 Threshold Current	最大控制流量 Max. Control Current
12 VDC	350 ± 100 mA	1600 ± 75 mA
24 VDC	175 ± 50 mA	800 ± 150 mA

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-VC12-3 ;

Operating Pressure: Port 1: 240 bar (3500 psi); Ports 2 and 3: 207 bar (3000 psi)

Regulated Flow Rate in 3-Port Mode:

Range A: 57 lpm (15 gpm); Range B: 38 lpm (10 gpm)

Maximum Input Flow in 3-Port Mode: Range A and B: 114 lpm (30 gpm)

Maximum Flow Rate in 2-Port Mode: Range A: 53 lpm (14 gpm); Range B: 31 lpm (8 gpm)

Note: For increased flow capacity in a 2-port flow control

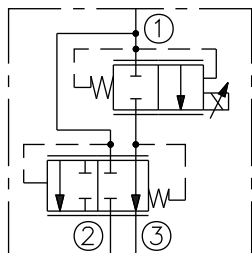
Internal Leakage: 0.38 lpm (0.1 gpm) fully closed at 207 bar (3000 psi)

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

Cavity: ZY-VC12-3;

机能符号 SYMBOLS:

ISO:



特点 FEATURES:

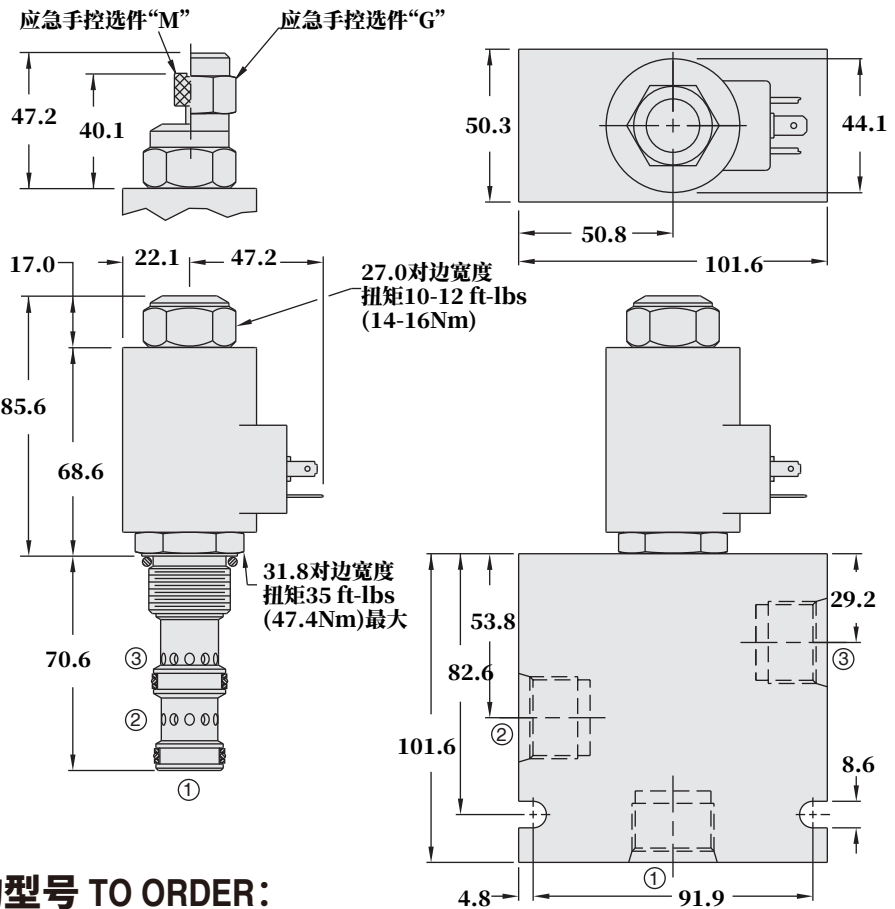
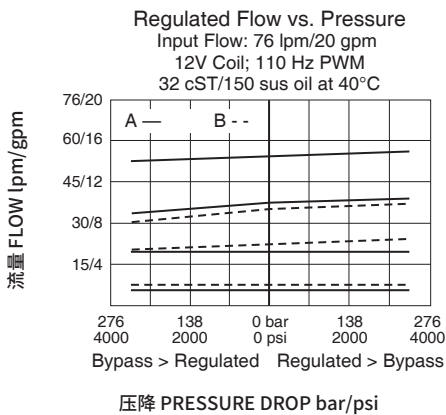
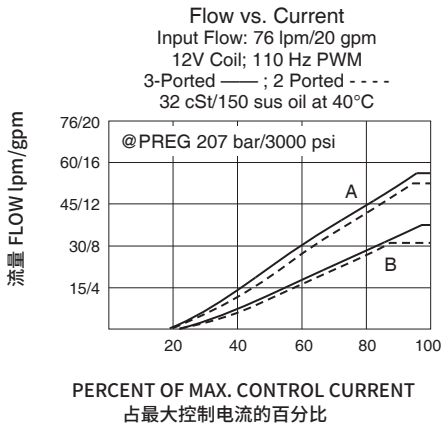
- 优良的线性和磁滞特性。
- 阀芯与阀套硬处理, 耐用。
- 电磁线圈电压和终端可选。
- 高效的湿式衔铁结构。

- Excellent linearity and hysteresis characteristics.
- Hardened spool and cage for long life.
- Optional coil voltages and terminations.
- Efficient wet armature construction.

ZY-PV72-30

性能图 PERFORMANCE:

尺寸 DIMENSIONS:



订购型号 TO ORDER:

ZY-PV72-30

流量范围
(Flow Range)

(Required. See
Performance Curves) A
(必须参考性能曲线) B

(Option) 选项

(None) 无(空白)
(Manual Override) 应急手控 M

(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) N
(Fluorocarbon)氟橡胶 V

标准线圈终端(VDC)

Termination(VDC)Std.Coil

DS Dual Spades 双扁形接头

DG DIN 43650

DL Leadwires 导线(2)

DL/W Leads w/Weather-Pack®
Connectors 导线,带连接器

Coils with internal diode are available.
Consult factory.
提供带内置二极管的线圈,请咨询工厂

电压 Voltage

0 无线圈(Less Coil)
12 12 VDC
24 24 VDC