

ZY-SV10-47F 换向阀, 3 位, 4 通, 串联中位

ZY-SV10-47 Spool, 4-Way, 3-Position, Tandem Center

描述 DESCRIPTION:

电磁驱动、3 位 4 通、直动阀芯式、串联中位、液压螺纹插装阀。

A solenoid-operated, 4-way, 3-position, direct-acting, spool-type, motor center, screw-in hydraulic cartridge valve.

工作原理 OPERATION:

断电时, **ZY-SV10-47F** 截止油缸油口, 而允许油液从 ③ 流向 ①。

线圈 1 通电时, 油液可以从 ③ 流向 ②, 以及从 ④ 流向 ①。

线圈 2 通电后, 允许油液从 ② 流向 ③, 而截止流到 ① 和 ④。

在由于油缸面积比而造成工作油口流量不平衡的油路中, 较大流量的回油应导入油口 ②。

虽然可以对油口 ① 完全加压, 但其不用作阀的进口口。

应急手控选件操作方法: 在进行应急操作时, 推动滚花手柄可以控制线圈 2 (S2) 的功能, 或拉动滚花手柄可以控制线圈 1 (S1) 的功能。

When de-energized, the **ZY-SV10-47F** blocks flow at 3 and 4, while allowing flow from 2 to 1.

When coil #1 (S1) is energized, the spool shifts to allow flow from 3 to 4 and 2 to 1.

When coil #2 (S2) is energized flow is allowed from 2 to 3 and from 4 to 1.

In circuits where work port flows are unequal due to cylinder ratios, the higher return flow should be directed to port 2.

While 1 may be fully pressurized, it is not intended for use as the valve's inlet.

Operation of Manual Override Option: To override, push the knurled button to activate the coil #2 (S2) function, or pull the knob to activate the coil #1 (S1) function.

特性 RATINGS:

工作压力: 240 bar (3500 psi)

耐压: 390 bar (5700 psi)

流量: 最大 15 lpm (4 gpm)

内部泄漏: 在 207 bar (3000 psi) 时, 最大为 164 毫升/分钟 (10 立方英寸/分钟)

温度范围: -40°C 至 120°C, 标准丁腈橡胶密封

线圈额定负载: 可在 85% 至 115% 的额定电压范围内连续工作

响应时间: 电压为 100%, 流量为额定值的 80% 时, 首次指示状态变化的时间: 通电: 40 毫秒; 断电: 10 毫秒。

最小吸合电压: 207 bar (3000 psi) 时为额定值的 85%

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-VC10-4;

Operating Pressure: 240 bar (3500 psi)

Proof Pressure: 390 bar (5700 psi)

Flow: 15 lpm (4 gpm) max.

Internal Leakage: 164 cc/minute (10 cu. in./minute) max. at 207 bar (3000 psi)

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

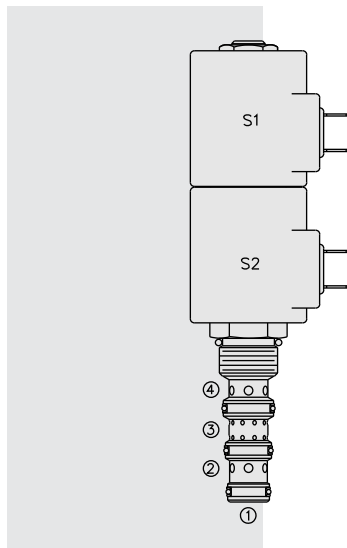
Coil Duty Rating: Continuous from 85% to 115% of nominal voltage ;

Response Time: First indication of change of state with 100% voltage supplied at 80% of nominal flow rating: Energized: 40 msec.; De-energized: 10 msec.

Minimum Pull-in Voltage: 85% of nominal at 207 bar (3000 psi)

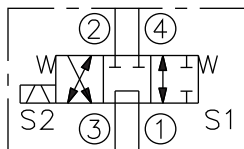
Fluids: Mineral-based or synthetics with lubricating properties at viscosities of 7.4 to 420 cSt (50 to 2000 sus);

Cavity: ZY-VC10-4;

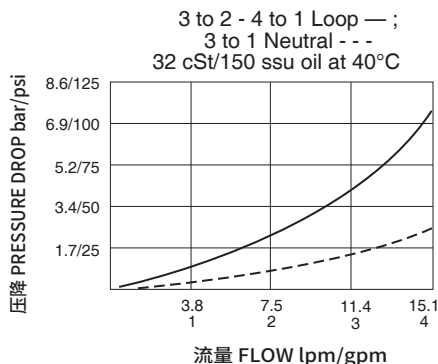


机能符号 SYMBOLS:

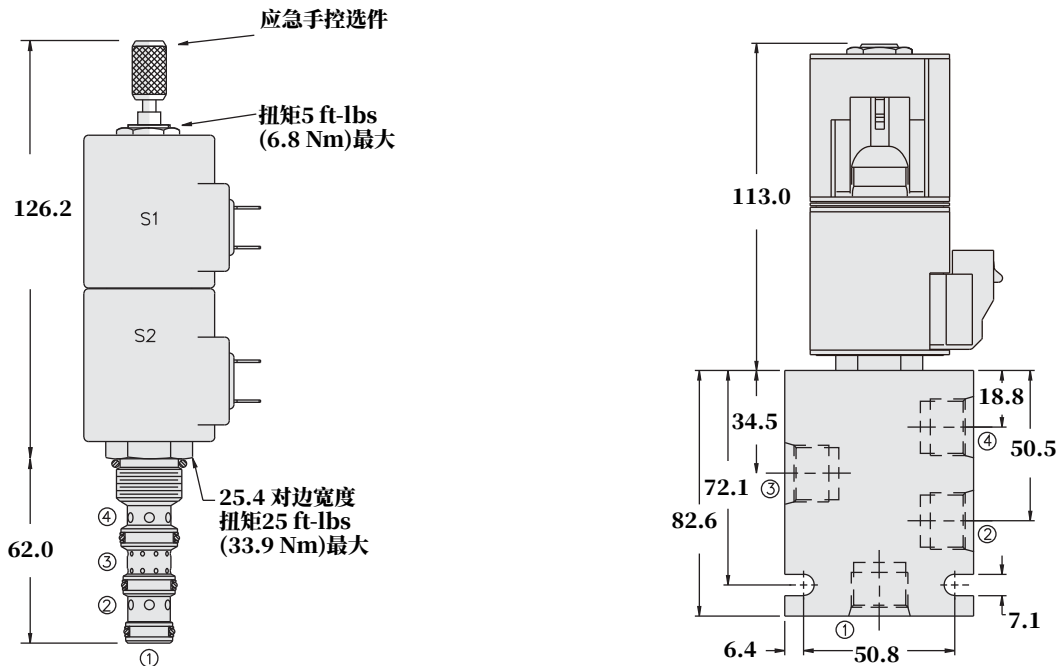
ISO:



性能图 PERFORMANCE: (Cartridge Only)



尺寸 DIMENSIONS:



特点 FEATURES:

- 额定电磁线圈适合连续工作。
- 阀芯与阀套经硬处理, 耐用。
- 可选线圈电压和终端。
- 应急手控选项。
- 可选 IP69K 防水 E 型线圈。
- 高效湿式衔铁结构。
- 可以对所有油口完全加压。
- 插件电压可互换。
- 整体模铸型线圈设计。
- 工业通用阀孔。
- Continuous-duty rated solenoid.
- Hardened precision spool and cage for long life.
- Optional coil voltages and terminations.
- Manual override option.
- Optional waterproof E-Coils rated up to IP69K.
- Efficient wet-armature construction.
- All ports may be fully pressurized.
- Cartridges are voltage interchangeable.
- Unitized, molded coil design.
- Industry common cavity.

订购型号 TO ORDER:

ZY-SV10-47F

(Option) 选项
(None) 无(空白)
(Manual Override) 应急手控 M
(Manual Override) 应急手控 T

(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

标准线圈电压
(Voltage Std. Coil)

0 无线圈**
10 10 VDC
12 12 VDC
24 24 VDC
36 36 VDC
48 48 VDC
24 24 VAC
110 110 VAC
115 115 VAC
220 220 VAC
230 230 VAC

**包括标准线圈螺母
*仅限DS、DW或DL终端
**Includes Std. Coil Nut AG
† DS, DW or DL terminations only.

E型线圈(E-Coil)

10 10 VDC
12 12 VDC
20 20 VDC
24 24 VDC

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
DR Deutsch DT04-2P

标准线圈终端(VAC)
Termination(VAC)Std.Coil

AG DIN 43650
AP 1/2英寸导线管

E型线圈终端(VDC)
Termination(VDC)E-Coil

ER Deutsch DT04-2P (IP69K Rated)符合标准
EY Metri-Pack® 150 (IP69K Rated)符合标准

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