

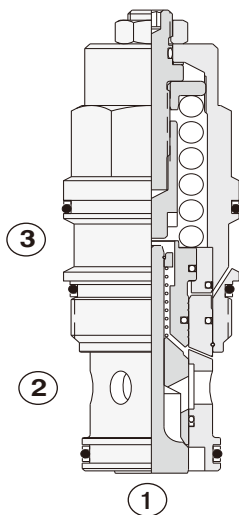
ZY-CB*C-LHN 抗衡阀（半限流型，最大设定压280bar）

ZY-CB*C-LHN Counterbalance valve (half current limiting type, maximum set pressure 280bar)

描述 DESCRIPTION:

三通口, 锥阀, 控制弹簧主腔内部回油, 螺纹插装式。

Three-way port, poppet valve, control spring main chamber internal oil return, threaded cartridge type.



工作原理 OPERATION:

ZY-CB*C-LHN 单向功能: 允许油液由②流向①, 当①的压力小于弹簧设定值时, 截止①流向②;

溢流功能: 当①的压力大于弹簧设定值时, ①到②为溢流功能。

液控节流功能: 在端口③有控制压力时, 控制③的压力可以改变①到②的开口大小, 从而达到节流功能。

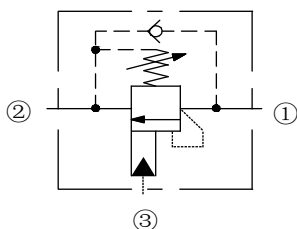
The **ZY-CB*C-LHN One-way function:** allow the oil flow from ② to ①, when the pressure of ① is less than the spring set value, the cut-off ① Flow to ②;

Overflow function: when the pressure of ① is greater than the spring set value, ① to ② for overflow function.

Liquid control throttling function: when the port ③ has control pressure, control ③ pressure can be changed from ① to ② The size of the opening from which the throttling function is achieved.

机能符号 SYMBOLS:

ISO:



特点 FEATURES:

- 最大设定压力是最大负载产生压力的 1.3 倍
- 通口②的背压需在设定压力内
- 复位压力应大于设定压力的 85%

- The maximum set pressure is 1.3 times the pressure generated by the maximum load
- The back pressure of the vent ② should be within the set pressure
- The reset pressure should be greater than 85% of the set pressure

特性 RATINGS:

工作压力: 压力在 280bar 时能承受的负载压力为 215bar

流量: 参见性能图。

内部泄漏: 复位时最大为 0.4ml/min。复位压高于设定压的 85%。出厂设定压力流量为 32.8ml/min 时设定的。

控制比: 3:1 最大设定压应为最大负载压的 1.3 倍。

温度范围: -40℃~120℃

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

Operating Pressure: The load pressure is 215bar at 280bar

Flow : See Performance Chart;

Internal Leakage: The maximum value is 0.4ml/min when reset. The reset pressure is 85% higher than the set pressure. The factory setting pressure flow is 32.8ml/min.

Control ratio: 3:1 The maximum set pressure should be 1.3 times the maximum load pressure.

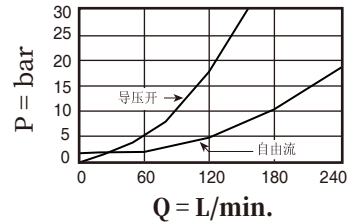
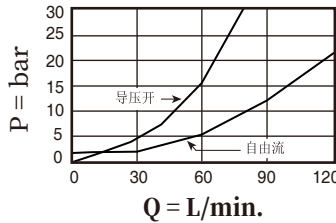
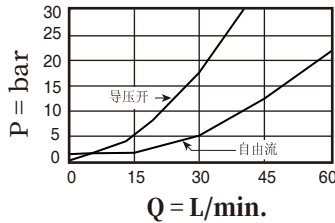
Temperature: -40 to 120 °C

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

流量Flow	型号Model	插孔Cavity	安装扭矩 Mounting torque
40 L/min	ZY-CBBC-LHN	ZY-T-11A	40/50 Nm
80 L/min	ZY-CBDC-LHN	ZY-T-2A	60/70 Nm
160 L/min	ZY-CBFC-LHN	ZY-T-17A	200/215 Nm

性能图 PERFORMANCE: (Cartridge Only)

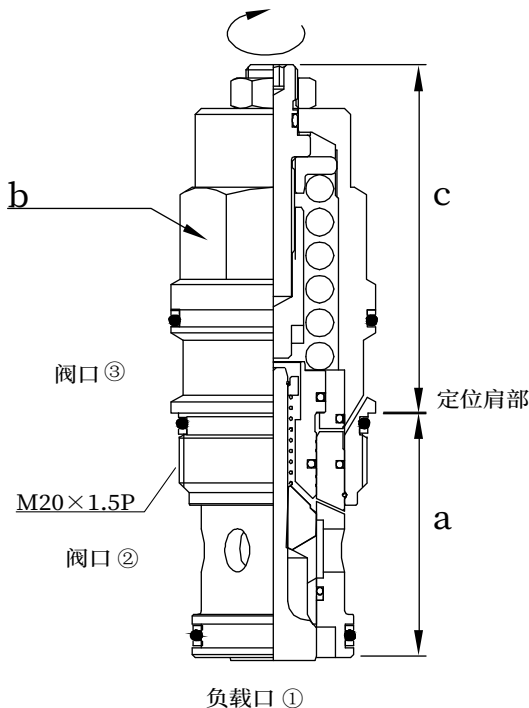
自由流和导压开压损



- 当阀的设定压在280bar时能承受的负载压为215bar.复位时最大内漏量 = 0,4 cc/min.
- 复位压高于设定压的85%
- 出厂设定压是流量为32,8 cc/min时设定的.
- 抗衡阀的最大设定压应为最大负载感应压的1.3倍.
- 口2背压会增加阀的设定压,增加的幅度相当于口2 的背压 $\times(1+\text{抗衡阀的导压比})$.

尺寸 DIMENSIONS:

顺时针方向旋转螺杆减少设定压以致卸载全调 3/4



负载口 ①

插式阀尺寸

a	b	L	C
34,9	22,2	50	56
34,9	28,6	61	64
46	31,8	70	84

出厂设定压:

A 及 H 标准设定压 210 bar. I 及 B 标准设定压 70 bar.
客户可指定设定压.

Factory setting pressure:

Standard setting pressure of A and H is 210 bar.
I and B standard setting pressure 70 bar.
Customer can specify the setting pressure.

订购型号 TO ORDER:

ZY-CB

(FLOW) 流量

40 L/min.	B
80 L/min.	D
160 L/min.	F

(Conductance ratio) 导压比

1.5:1 (导压室密封)	B
3:1 (导压室密封)	C

(Controls) 控制方式

Standard Screw Adjustment 螺杆	L
Nonstandard Controls 非标准控制件	
Factory Set amper Resistant 防调	C

(Seals) 密封材料

N	Buna N(Sta) 丁腈橡胶(标准型)
V	(Fluorocarbon) 氟橡胶

(ADJUSTMENT RANGES) 调压范围

(GENERAL PURPOSES) 一般用途
(1.7 bar Cracking Pressure)
止回阀弹簧 1.7 Bar

H	70 - 280 bar 210 bar Standard Setting
I	25 - 105 bar 70 bar Standard Setting

(SPECIAL PURPOSES) 特殊用途
(0.3 bar Cracking Pressure)
止回阀弹簧 0,3Bar

A	70 - 280 bar 210 bar Standard Setting
B	25 - 105 bar 70 bar Standard Setting