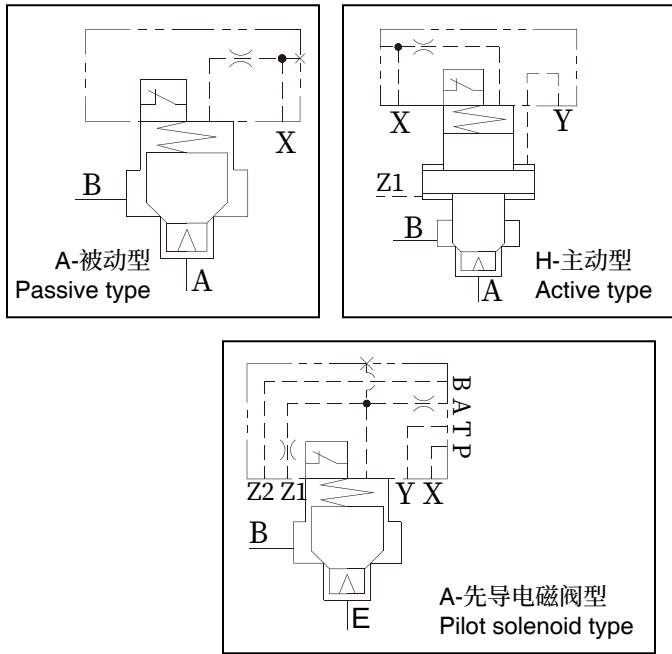


机能符号Functional symbol



技术参数Technical parameters

最大工作压力Max working pressure: A、B、X、Z1、Z2: 315bar
工作温度Operating temperature: -25℃~85℃
弹簧 Spring : A口开启压力
先导阀Pilot Valve: 直动式NG6(仅机能E)
粘度Viscosity: 10~500mm²/s
遮盖区域泄露量The amount of leakage in the covered area
 $\Delta P=100\text{bar}$ 和 $V=35\text{mm}^2/\text{s}$:

NG	16	25	32	40	50
cm ³ /s	300	400	550	650	800

订购型号Order the model

ZY-LSV

通径
(NG16) = 16
(NG25) = 25
(NG32) = 32
(NG40) = 40
(NG50) = 50

机能符号 symbol
被动型
Passive type

主动型
Active type

先导电磁阀型
Pilot solenoid type

开启压力
Opening pressure

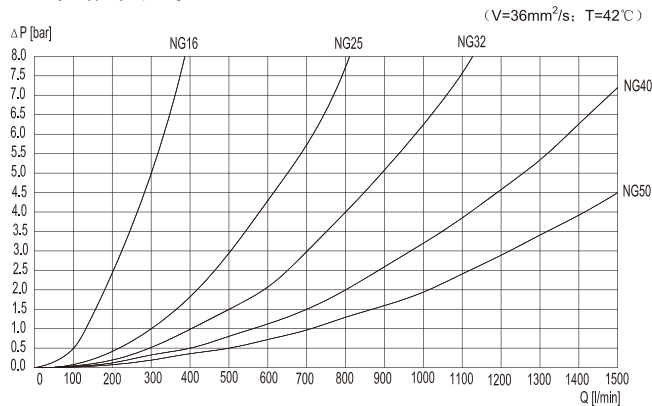
1.0bar 10
2.0bar 20
3.0bar 30

插头不带指示灯
Plug without indicator light

电气连接
Electrical connection
20 (DIN 43650)
50 (航空插头)

密封材料Sealing material
空白 丁腈橡胶Nitrile rubber
V 氟橡胶 Viton

性能曲线Performance curve

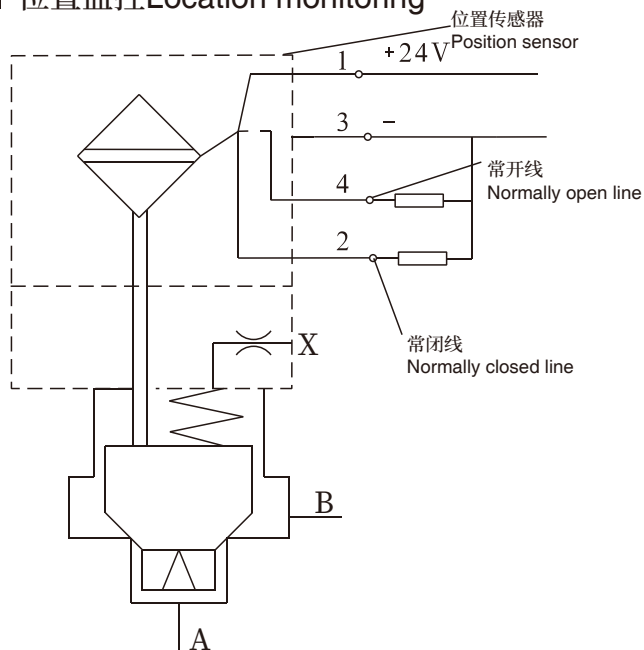


建议用户使用流量不超过 $\Delta P=0.5\text{bar}$ 时流量, 参见性能曲线。
Users are advise to use a flow rate not exceeding $\Delta P = 0.5\text{bar}$, See performance curve.

通径NG16推荐使用流量 $\leq 100\text{L/min}$;
通径NG25推荐使用流量 $\leq 210\text{L/min}$;
通径NG32推荐使用流量 $\leq 300\text{L/min}$;
通径NG40推荐使用流量 $\leq 400\text{L/min}$;
通径NG50推荐使用流量 $\leq 500\text{L/min}$;

机能	通径NG	开启压力	传感器 U ₀ /V ₀ /mA
A	16	1	24/400
	25	2	
	32	2	
	40	2	
	50	3	
H	16	3	24/400
	25	3	
	32	3	
E	32	1	24/400
	40	2	

位置监控 Location monitoring

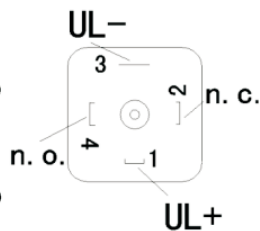


1. +24V

2. 常闭 (低阻抗-高阻抗)

3. 0V

4. 常开 (高阻抗-低阻抗)



·说明· Description

1. 位置传感器内部带极性保护, 当1、3脚反接时传感器不工作, 此时只需按上图要求重新接驳即可。

1. The position sensor is internally provided with polarity protection, when pins 1 and 3 are reversely connected. If the sensor does not work, just reconnect it according to the above figure.

2. 本阀常用信号输出为2线, 1、3线分别为DC24V 电源的正、负极输入, 阀内部地线已接好, 客户不必另接地线。

2. The common signal output of this valve is 2 lines, 1 and 3 lines are respectively The positive and negative input of DC24V power supply and the internal ground wire of the valve have been connected. The customer does not need to connect another ground wire.

3. 本阀信号输出端为DC24V电压输出, 可通过最大电电流为400mA, 可直接接小功率负载。

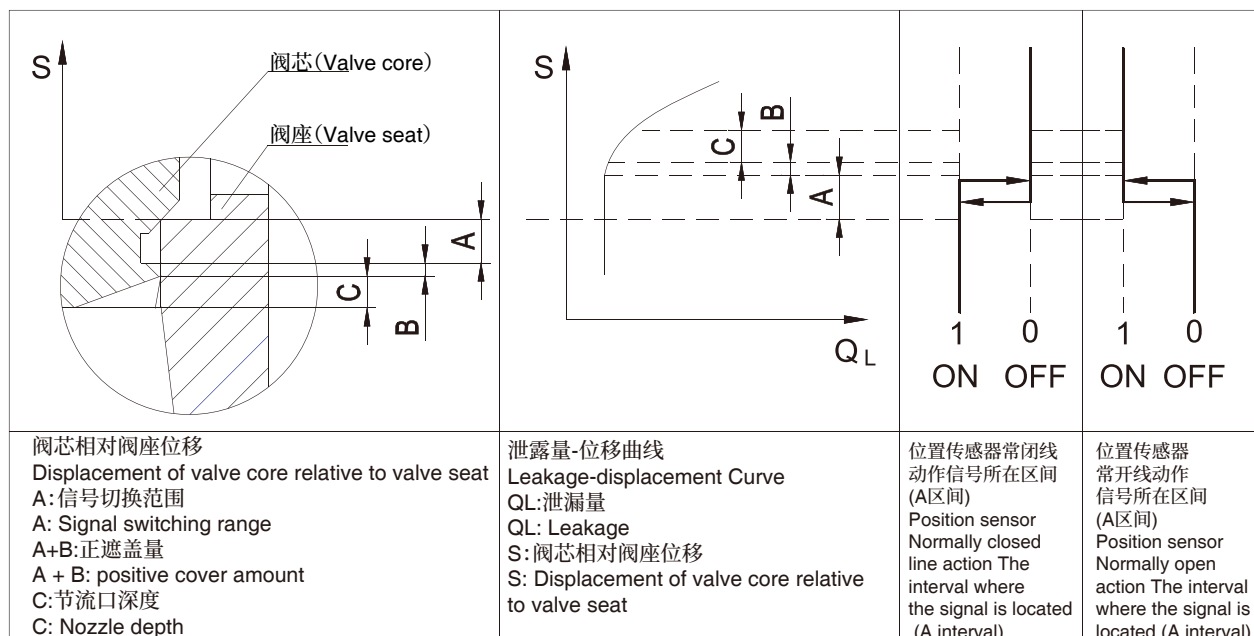
3. The signal output end of the valve is DC24V voltage output, which can pass the maximum voltage. The current is 400 mA, which can be directly connected to small power loads.

·警告: 请严格按照下图接线, 否则会对位置传感器造成损坏。

· Warning: Please connect in strict accordance with the following figure, otherwise, Damage to the position sensor.

原理 Principle	位置传感器 Position sensor
切换点 Switch point	在正遮盖范围内 (见“切换信号”图) Within the positive coverage range (see the "switching signal" diagram)
供应电压 Supply voltage	$U=24 \pm V20\%$ 直流 $U = 24 \pm V20\%$ DC
开关电流 Switching current	最大400mA (400mA Max)
防护等级 Degree of protection	IP65
暂载率 Temporary load rate	100%ED
切换频率 Switching frequency	20Hz
安装位置 Installation position	插头面向上或水平装 Plugs face up or horizontally

切换信号 Switch signal



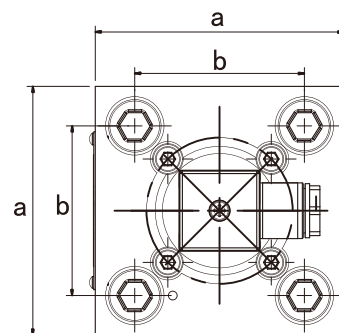
■ 尺寸NG16、25、32、40、50(ZY-LSV*A:基本型Basic type)

● 尺寸 Size

[mm]	NG16	NG25	NG32	NG40	NG50
L1	155	140	143	146	148
L2	135	120	123	126	128
L3	52	37	40	43	45
a	65	85	102	125	140
b	46	58	70	85	100
c	13	17	26	32	30

● 警告Warning

安装位置:
阀的接头必须向上或水平安装。
严禁面向下安装。
Installation position: The joint of the valve must be installed upwards or horizontally. Do not install face down.

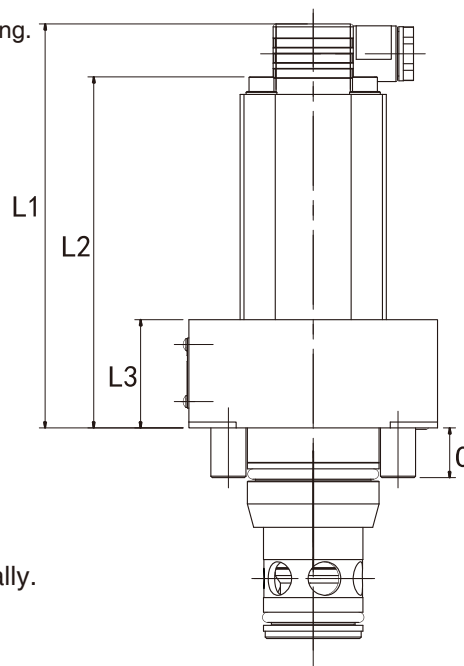


● 螺钉(包括在供货范围之内)

注: 参考安装尺寸图。

Screws (included in the scope of supply) Note: Refer to the installation dimension drawing.

NG	尺寸 Size	强度(级) Strength (Grade)	Tightening torques 拧紧扭矩 (Kgf.cm)
16	4-M8X55L	12.9	260~310
25	4-M12X40L	12.9	900~1050
32	4-M16X50L	12.9	2400~2600
40	4-M20X55L	12.9	4500~5000
50	4-M20X55L	12.9	4500~5000



■ 尺寸NG16、25、32、(ZY-LSV*H:主动控制型/差动活塞型)

Size NG16, 25, 32, (ZY-LSV * H: Active Control/Differential Piston)

● 警告Warning

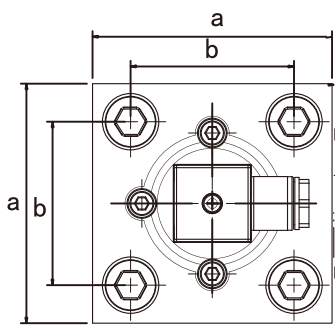
安装位置:

阀的接头必须向上或水平安装。严禁面向下安装。

Installation position: The joint of the valve must be installed upwards or horizontally. Do not install face down.

● 尺寸 Size

[mm]	NG16	NG25	NG32
L1	155	149	154
L2	135	129	134.5
L3	52	46	51.5
a	66	85	102
b	46	58	70
c	12	18	24.5



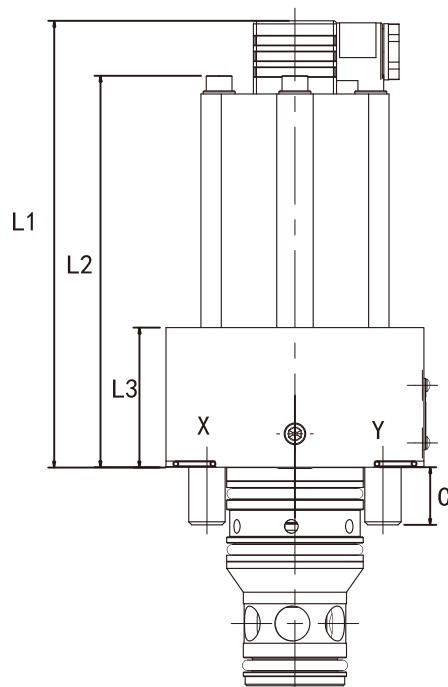
● 螺钉(包括在供货范围之内)

Screws (included in the scope of supply)

注: 参考安装尺寸图。

Note: Refer to the installation dimension drawing.

NG	尺寸 Size	强度(级) Strength (Grade)	Tightening torques 拧紧扭矩 (Kgf.cm)
16	4-M8X55L	12.9	260~310
25	4-M12X50L	12.9	900~1050
32	4-M16X60L	12.9	2400~2600





■ 尺寸NG32、40、(ZY-LSV*E:带先导电磁阀型)
 Size NG32, 40, UNK1ZY-LSV * E: with pilot solenoid valve type

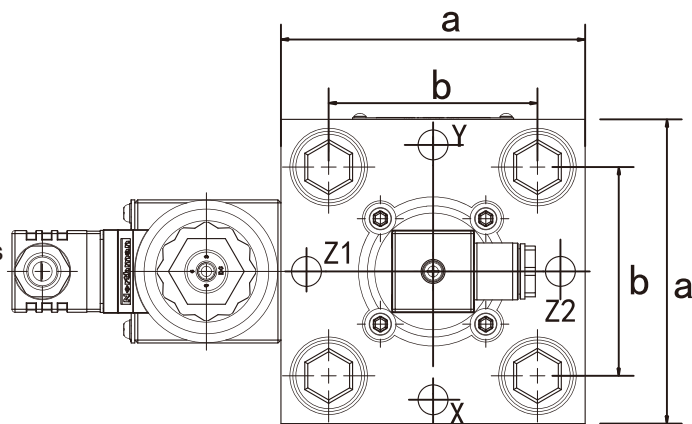
● 警告Warning

安装位置:

阀的接头必须向上或水平安装。严禁面向下安装。

Installation position:

The joint of the valve must be installed upwards or horizontally. Do not install face down.



[mm]	NG32	NG40
L1	178	179
L2	158	158
L3	75	75
a	102	125
b	70	85
c	26	30

注1: 参考安装尺寸图。

Note 1:

Refer to the installation dimension drawing.

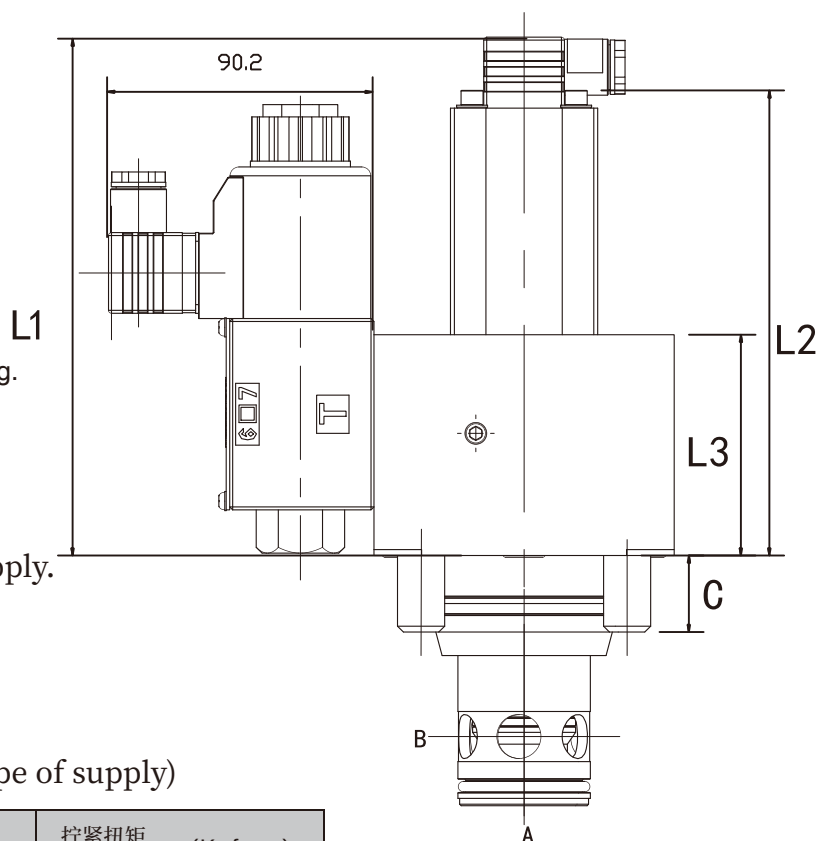
注2: 左侧先导电磁换向阀

※不包括在供货范围之内。

Note 2:

Left-hand pilot solenoid valve

※ Not included in the scope of supply.



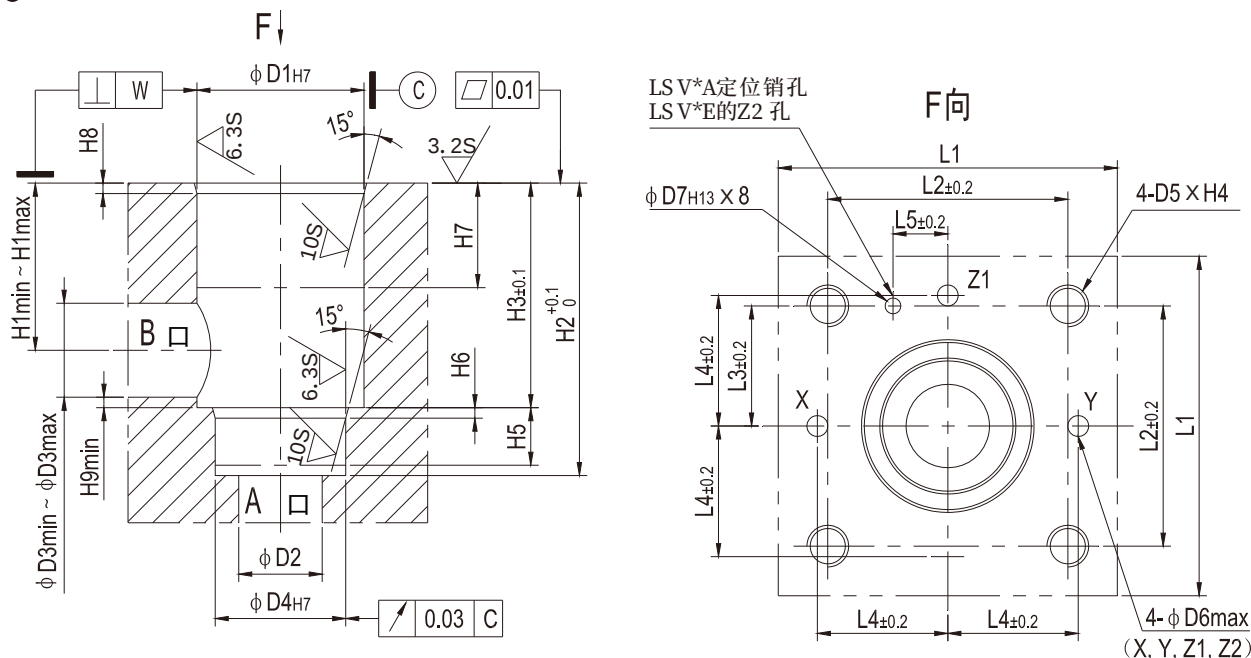
● 螺钉(包括在供货范围之内)
 Screws (included in the scope of supply)

NG	尺寸 Size	强度(级) Strength (Grade)	拧紧扭矩 Tightening torques (Kgf.cm)
32	4-M16X85L	12.9	2400~2600
40	4-M20X85L	12.9	4500~5000



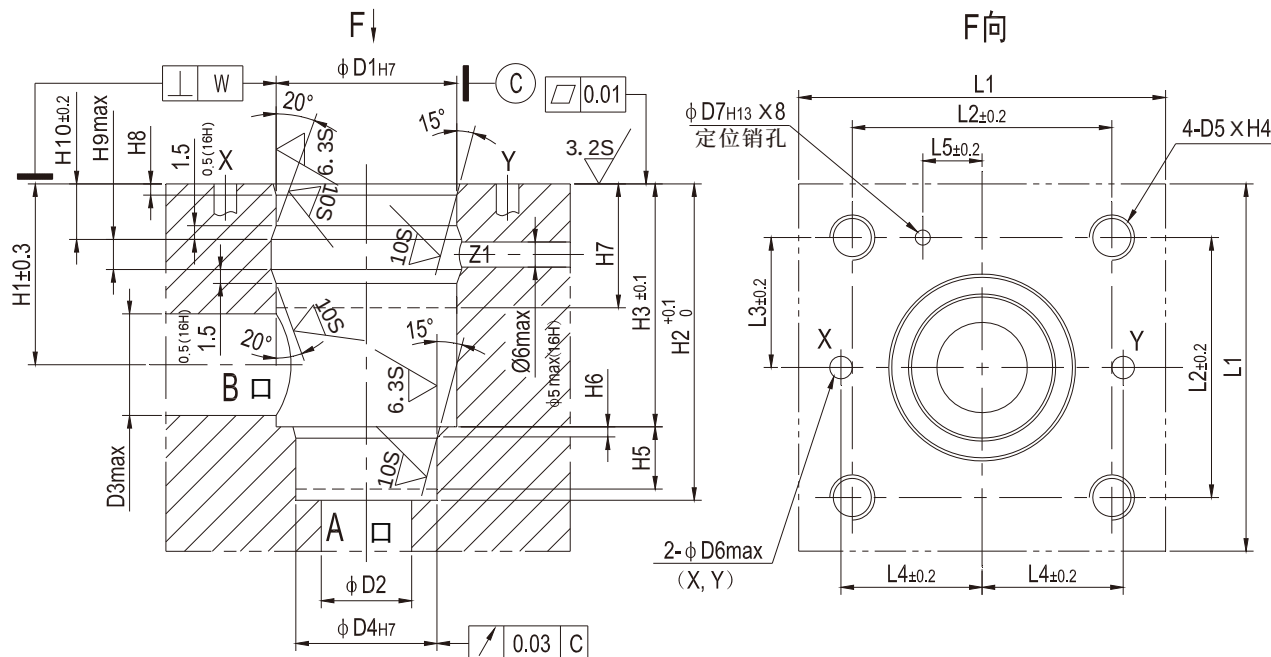
安装尺寸NG16、25、32、40、50 (LSV*A, LSV*E) Mounting dimensions NG16, 25, 32, 40, 50 (LSV*A, LSV*E)

图形 (安装面符合:ISO7368) Shape (installation surface complies with ISO 7368)



安裝尺寸NG16、25、32(LSV*H)
Mounting dimension NG16, 25, 32 (LSV * H)

- 图形(安装面符合:ISO7368)Graphics (mounting surface: ISO73 68)



H7:配合深度

$\phi D3min \sim \phi D3max$: 是允许配合公差改为H8(即NG25)。

注: 1. LSV*H型安全阀右视图中Z2控制油口无须加工, Z1口可绕A口中心轴线旋转(打孔方式同B口),

2. 安装孔在安装LSV型安全阀前必须均匀涂抹锂基润滑脂。

3. 尺寸H2严禁超公差, 此尺寸与位置传感器精度相同。

H7: depth of fit

$\phi D3_{min} \sim \phi D3_{Max}$: It is allowed to change the fit tolerance to H8 (i.e. NG25).

Note: 1. In the right view of the LSV * H safety valve, the Z2 control oil port does not need to be machined, and the Z1 port can rotate around the central axis of the A port (the drilling method is the same as that of the B port).

2. The installation hole must be evenly coated with lithium grease before installing the LSV safety valve.

3.Dimension H2 must not exceed the tolerance. This dimension has the same accuracy as the position sensor.

- ### ● 尺寸

通径	ΦD1	ΦD2	ΦD3 max	ΦD4	ΦD5	ΦD6 max	ΦD7	H1	H2	H3	H4	H5
NG16	32	16	17.5	25	M8	4.5	4	31	56	43	20	10
NG25	45	25	24	34	M12	6	6	44	72	58	25	12
NG32	60	32	32	45	M16	8	6	52	85	70	35	13
通径	H6	H7	H8	H9 max	H10	L1	L2	L3	L4	L5	W	
NG16	2.5	24	2.5	5	9.5	65	46	23	25	10.5	0.05	
NG25	2.5	34	2.5	7	15	85	58	29	33	16	0.05	
NG32	2.5	37	2.5	7	17.5	102	70	35	41	17	0.05	