

ML8824-BV系列

线性电动阀门执行器

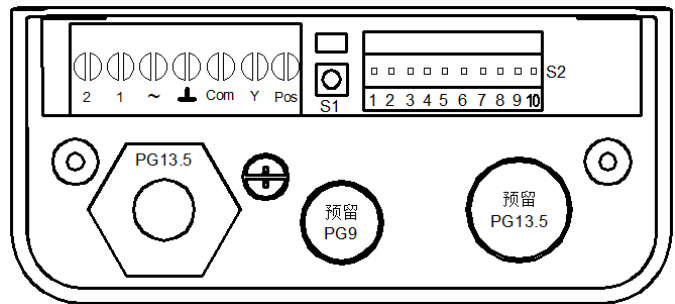
安装说明

<p>>100mm</p>		
<p>A1-A6: 安装</p>	<p>A1</p>	<p>A2</p>
<p>A3</p> <p>24V</p>	<p>A4</p> <div style="text-align: center;"> <p>浮点型控制</p> <p>0 (2) ~10VDC 0 (4) ~20mA</p> <p>24V ~/+ 24V +/- Com Y Input Position Feedback</p> </div> <p>说明：1. 浮点型控制 (第S2-8位拨码开关为ON)</p> <p>2. 使用浮点型时输入信号无效</p>	

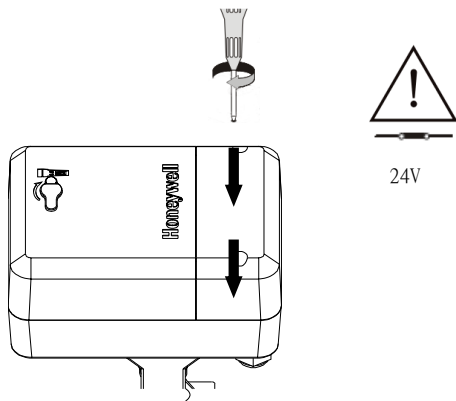
A5:自适应

上电自适应 (出厂默认设置) : 执行器供电后直接进入自适应模式, 此时执行器PCB中指示灯黄灯闪烁 (1Hz), 执行器将自动全关 (运行到底部) 然后全开 (运行到顶部)。指示灯不再闪烁表示过程完成。此过程完成后, 执行器运行到指定控制信号位置。

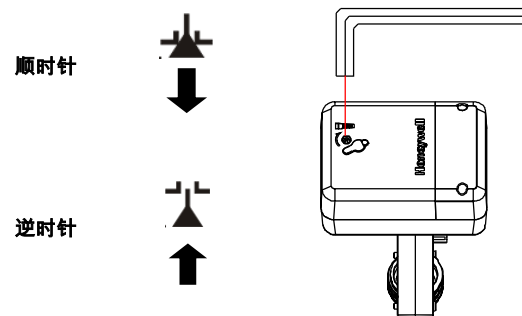
手动自适应 (S2-7位拨码为OFF) : 按住电路板上的按钮S1约5秒以上 (如图), 直到指示灯开始闪烁 (1Hz), 此时进入自适应模式, 现象与上电自适应一致。



A6



B:手动操作



拨码开关设置

拨码	功能	设定值功能描述	
S2-1	控制/反馈信号设定	ON	20% : 控制/反馈信号为4~20mA或2~10VDC
		OFF	0 : 控制/反馈信号为0~20mA或0~10VDC (默认设置)
S2-2	控制信号类型设定	ON	II : 电流控制
		OFF	UI : 电压控制 (默认设置)
S2-3	控制信号输入阻抗匹配设定	ON	UI : 控制信号为电压 (默认设置)
		OFF	II : 控制信号为电流
S2-4	阀位反馈信号类型设定	ON	IO : 反馈电流信号
		OFF	UO : 反馈电压信号 (默认设置)
S2-5	工作模式设定	ON	DA : 控制信号增大时执行器向下运动, 控制信号减小时执行器向上运动
		OFF	RA : 控制信号增大时执行器向上运动, 控制信号减小时执行器向下运动 (默认设置)
S2-6	断信号模式设定	ON	DW : 控制信号为电压或电流时, 如信号线被切断, 执行器内部会自动提供一个最小控制信号 (默认设置)
		OFF	UP : 1) 控制信号设定为电压时, 如信号线被切断, 执行器内部会自动提供一个最大控制信号 2) 控制信号设定为电流时, 如信号线被切断, 执行器内部会自动提供一个最小控制信号
S2-7	自适应模式设定	ON	DF : 上电自适应模式 (默认设置)
		OFF	RF : 手动自适应模式
S2-8	控制模式设定	ON	浮点型控制
		OFF	比例调节型控制 (默认设置)
S2-9	保留		
S2-10	速度设定	ON	600N高速 : 3s/mm ; 1800N高速 : 2s/mm
		OFF	600N低速 : 4s/mm ; 1800N低速 : 3s/mm (默认设置)

NFC功能和参数设置

通过NFC功能配套的APP可以进行参数设置。在参数设定界面，可以直接设定最大流量值。在参数设置界面，打开高级参数设置的按钮，可以设定最大开度，死区和灵敏度。设置完毕后再次贴近执行器，可以将所设定参数写入执行器，APP界面会有“写入成功”提示。返回到读取界面，手机贴近执行器，可以读取到设置的参数。

注意：由于PICV需要设定最大流量值，因此最大开度一般不建议设置。如果设置了最大开度，最大开度值优先最大流量值，会导致最大流量设置无效。

参数	设定范围或选项
语言	中文, English, Auto
阀门型号	VPIC系列PICV, DN25~DN150
最大流量	所选PICV最大流量值的30%~100%
死区	1.0~10.0
灵敏度	0.5~10.0
最大开度	30%~100%

注意事项：

1. 保证设备的物理安全，只有授权人员才能接触到设备。
2. 保证设备的安装部署、运维管理的安全性。
3. 对于带NFC配置功能的型号，必须配套使用霍尼韦尔提供的专用APP。
4. 使用专用手机安装该APP，确保非越狱非刷机。定期进行手机病毒扫描和应用权限管理。
5. APP使用过程中如出现异常，请将错误码反馈给霍尼韦尔。
6. 如发现安全漏洞，请联系<https://www.honeywell.com/en-us/product-security>

ML8824-BV Series Linear Electric Valve Actuator

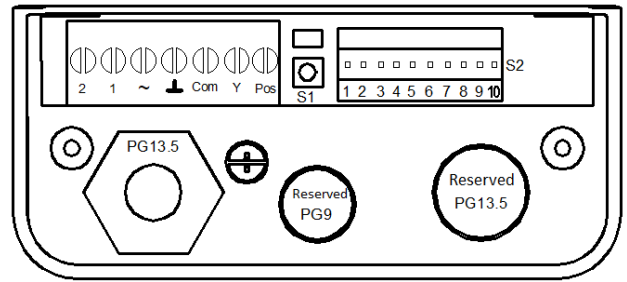
INSTALLATION INSTRUCTIONS:

<p>A1-A6: Installation</p>	<p>A1</p>	<p>A2</p>
<p>A3</p>	<p>A4</p> <p>Instructions :</p> <ol style="list-style-type: none"> 1. Floating control (when dip switch S2-8 is set to ON) 	

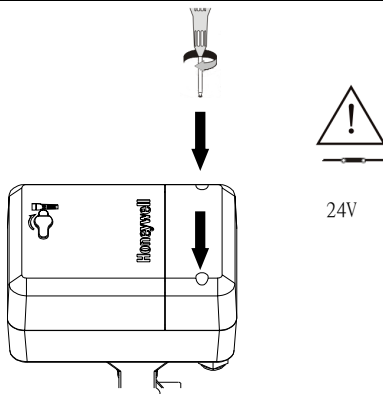
A5:Self-Adaption Mode

Power-on self-adaption: The actuator will directly enter into self-adaption mode after being powered up. Meanwhile, the yellow indicator on PCB blinks (1Hz) and the actuator will be automatically full off (traveling to the bottom) and then full on(traveling to the top). When the indicator stops blinking, it means that the process is completed. Afterwards, the actuator will travel to the designated position of control signal.

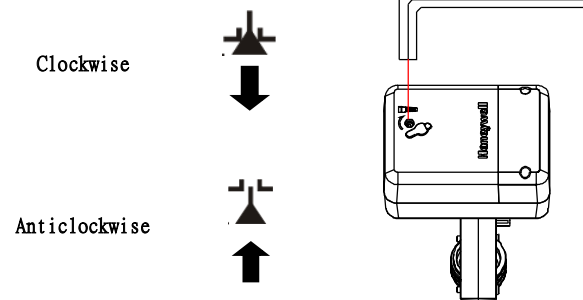
Manual self-adaption: Press and hold button S1 on PCB for more than 5s (See Fig. 1) until the indicator starts blinking (1Hz) to enter into self-adaption mode. The phenomenon will be the same as power-on self-adaption.



A6



B:Manual



DIP Switch Setting

DIP	Function	Function Description of Setting Value	
S2-1	Setting of control/feedback signal	ON	20% : The control/feedback signal is 4~20mA or 2~10VDC
		OFF	0: The control/feedback signal is 0~20mA or 0~10VDC (factory default)
S2-2	Setting of control signal type	ON	II : The control signal is current type.
		OFF	UI : The control signal is voltage type. (factory default)
S2-3	Setting of control signal input impedance	ON	UI : The control signal is voltage type. (factory default)
		OFF	II : The control signal is current type.
S2-4	Setting of valve position feedback signal type	ON	IO : The valve position feedback signal is current type.
		OFF	UO : The valve position feedback signal is voltage type. (factory default)
S2-5	Setting of operating mode	ON	DA: When control signal increases, actuator moves downward. When control signal decreases, actuator moves upward.
		OFF	RA: When the control signal increases, the actuator moves upward. When control signal decreases, the actuator moves downward. (factory default)
S2-6	Setting of signal interruption mode	ON	DW: When the control signal type is set as voltage or current, the actuator will automatically provide a minimum control signal if the signal cable is cut. (factory default)
		OFF	UP: 1) When the control signal type is set as voltage, the actuator will automatically provide a maximum control signal if the signal cable is cut. 2) When the control signal is set as current, actuator will automatically provide a minimal signal when the signal cable
S2-7	Setting of self-adaption mode	ON	DF: In power-on self-adaption mode. (factory default)
		OFF	RF: In manual self-adaption mode.
S2-8	Setting of control mode	ON	Floating control.
		OFF	Modulating control. (factory default)
S2-9	Reserved		
S2-10	Speed setting	ON	High speed: 600N - 3s/mm, 1800N - 2s/mm.
		OFF	Low speed: 600N - 4s/mm, 1800N - 3s/mm.(factory default)

NFC functionality and parameter settings

Parameters can be set via the supporting app using the NPC function. The maximum flow rate can be set on the parameter settings interface. On the settings interface, select the "Advanced Settings" option to configure the maximum opening, dead zones and sensitivity. After configuring the settings, move your device close to the actuator to upload the set parameters. A prompt will be displayed in the app indicating that the settings have been uploaded. Return to the parameter settings interface and move your device close to the actuator to view the configured parameters.

Note: As you need to configure a maximum flow rate for the PICV, we do not recommend configuring a maximum opening. If you have configured a maximum opening, this will override the maximum flow rate.

Parameter	Set range or options
Language	Chinese, English, Auto
Valve mode	VPIC series PICV, DN25–DN150
Maximum flow rate	30%–100% of the PICV's maximum flow rate
Dead zone	1.0–10.0
Sensitivity	0.5–10.0
Maximum opening	30%–100%

NOTE:

1. To ensure the physical security of the device, it can only be accessed by authorized personnel.
2. Ensure the secure installation, deployment and operation and maintenance management of the device.
3. Models with NFC configuration functionality must be used in conjunction with the dedicated app provided by Honeywell.
4. Install the app on a dedicated phone, ensuring that it has not been jailbroken or that the firmware has not been replaced. Regularly scan the phone for viruses and check the app permissions.
5. If a fault occurs during use of the app, please report the error code to Honeywell.
6. If you find a vulnerability in the security system, please contact <https://www.honeywell.com/en-us/product-security>