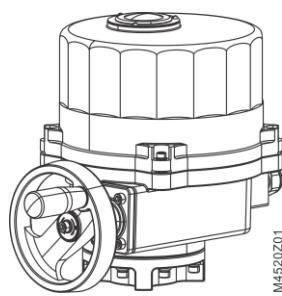


zh-cn
en

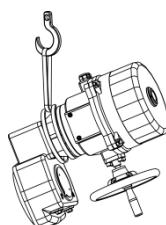
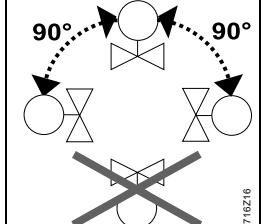
安装调试指导
Mounting and calibrating instructions

执行器
Actuators

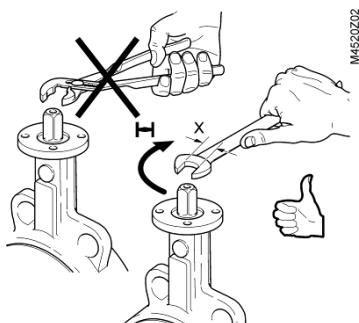
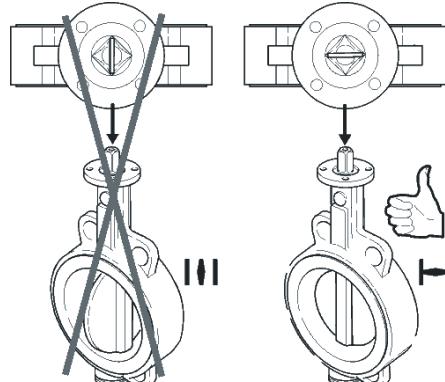


M4520201

**SQL321B..
SQL361B..
SQL351B..**

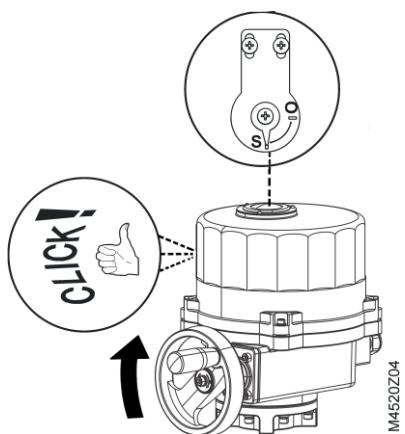
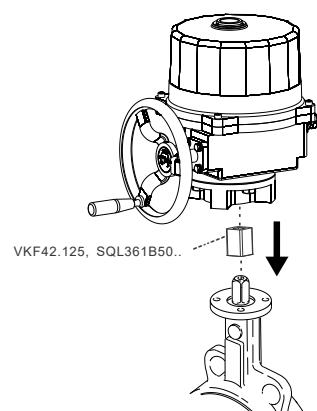


SQL...B2650//SQL...B6000

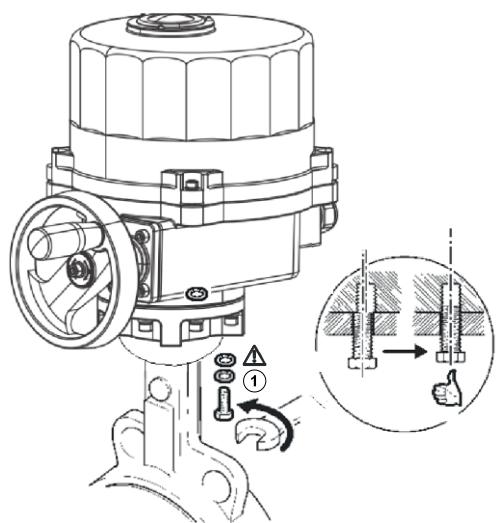
1**VKF42../VFF41..****2****VKF42../VFF41..**

M4520203

DN	X [mm]	DN	X [mm]
40...100	<input type="checkbox"/> 11	350...400	<input type="checkbox"/> 27
125...200	<input type="checkbox"/> 17	450...500	<input type="checkbox"/> 36
250...300	<input type="checkbox"/> 22	600...700	<input type="checkbox"/> 46
		800...900	<input type="checkbox"/> 60

3**4**

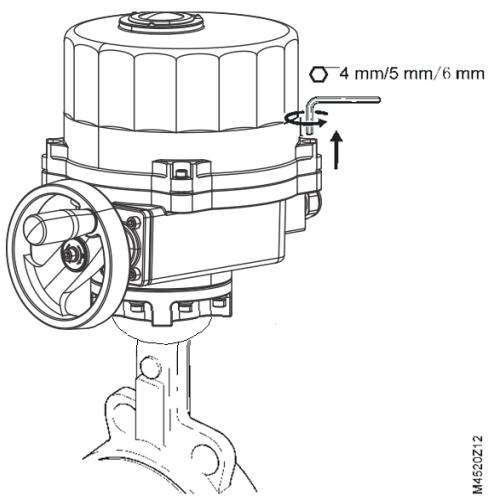
M4520201

5

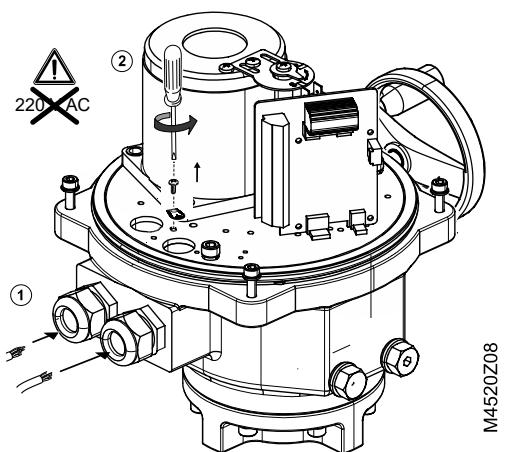
M4520712a

①

- | | |
|--------------|--|
| en | • Always use lock washers and tighten the bolts.
• Loose bolts may cause the position feedback unit to fail even when the actuator is correctly in place. |
| zh-cn | • 务必使用锁紧垫片并拧紧螺栓。
• 螺栓松动可能导致执行器运行到位时位置反馈装置失效。 |

6

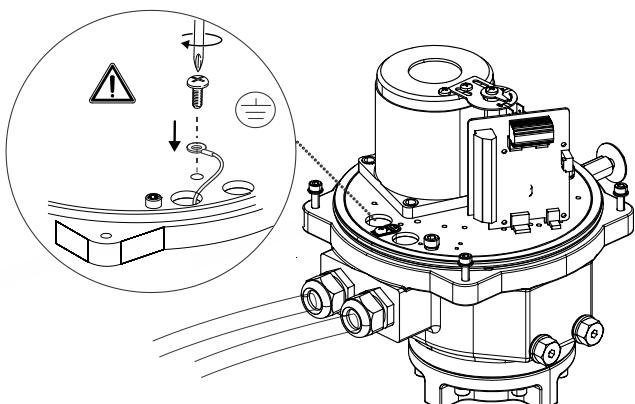
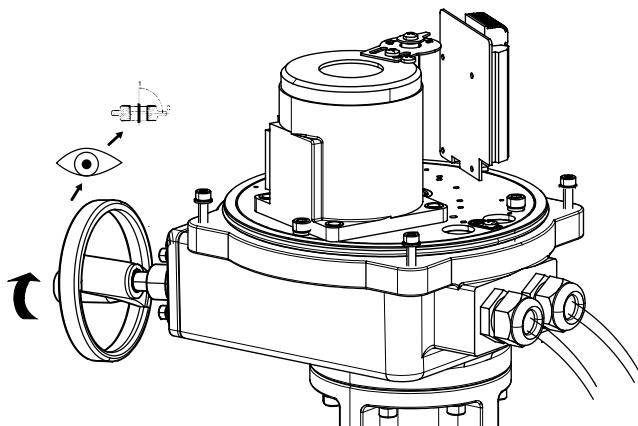
M4520712

7

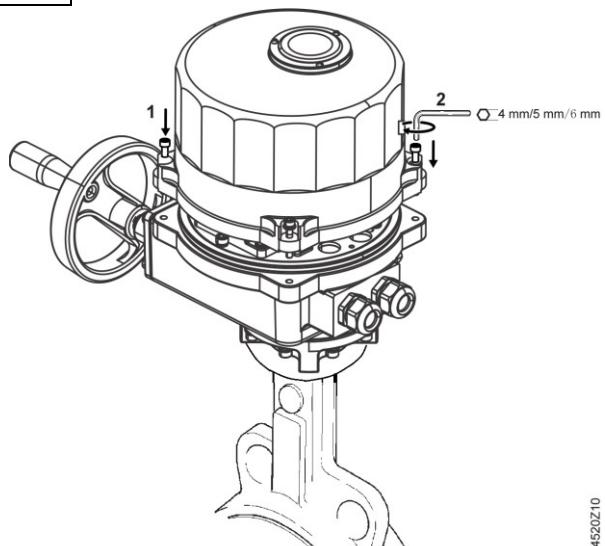
M4520708

①

- | | |
|--------------|--|
| en | Separate power cables from signal cables |
| zh-cn | 分开连接电源线和信号线 |

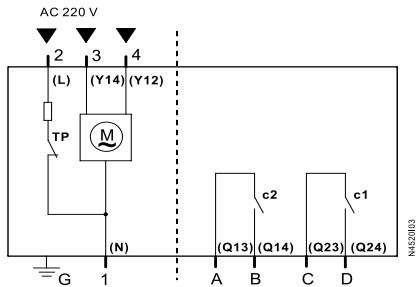
8**9**

M4520713

10

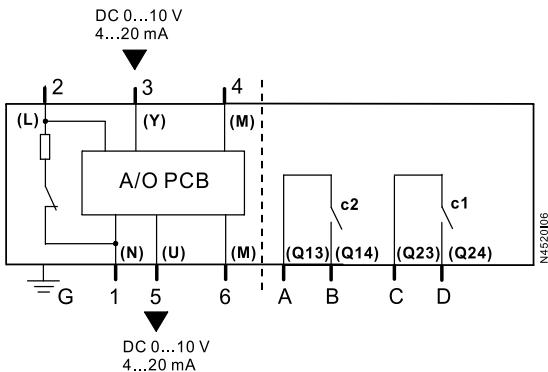
M4520710

SQL321..



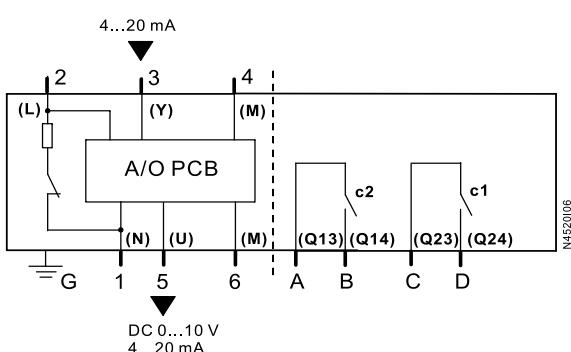
SQL361B25

SQL361B50



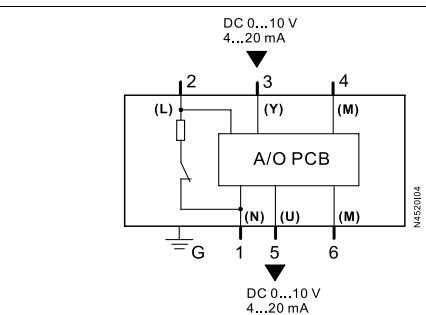
SQL351B25

SQL351B50



SQL361B150...

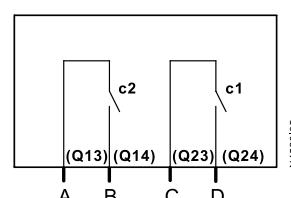
B6000



en Accessory

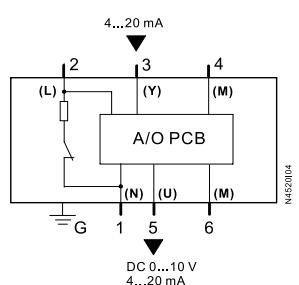
zh-cn 附件

ASC10.21



SQL351B150...

B6000



	c1 ASC10.21	c2 ASC10.21	Y	U	M	Y12	Y14	L	N
zh-cn	辅助开关闭合	辅助开关开启	控制信号(SQL361) DC 0...10 V, 4...20 mA (SQL351) 4...20 mA	位置反馈 DC 0...10 V 4...20 mA	测量中线	控制信号关 (S)	控制信号开 (O)	工作电压 AC 220V	系统零线
en	Auxiliary switch CLOSED	Auxiliary switch OPEN	Positioning signal (SQL361) DC 0...10 V, 4...20 mA (SQL351) 4...20 mA	Position feedback DC 0...10 V 4...20 mA	Measuring neutral	Control signal CLOSED (S)	Control signal OPEN (O)	System potential AC 220 V	Neutral

Calibration Actuator / 执行器校准

SQL351B25..50

SQL361B25..50

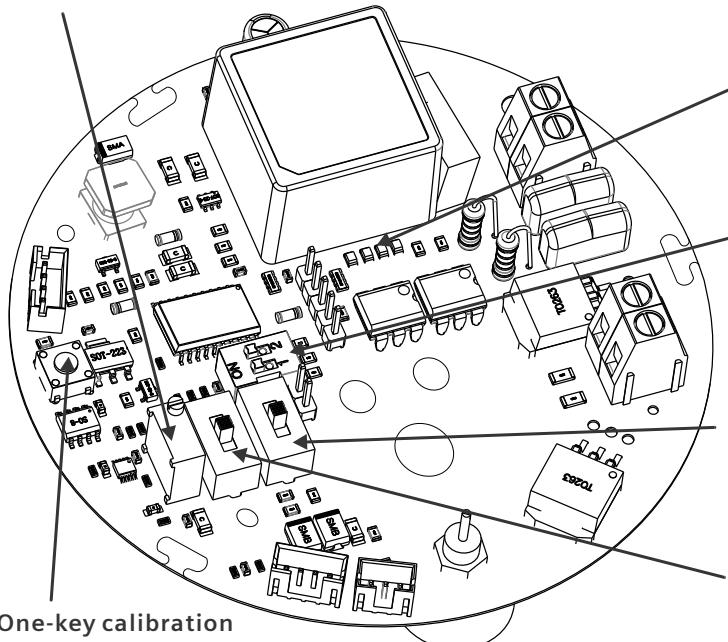
Signal type Selection 0..10V and 4..20 mA signal / 信号类型选择 0..10V 和 4..20 mA

en	<ul style="list-style-type: none"> Factory setting for input and output signal in SQL361B.. is 0..10 V. Factory setting for input and output signal in SQL351B.. is 4..20 mA. *Fail-in position not available at input signal 0..10 V. Select switch as below description.
zh-cn	<ul style="list-style-type: none"> SQL361B..输入和输出信号的出厂设置..是 0..10 V SQL351B..输入和输出信号的出厂设置..是 4..20 mA *在输入信号为 0..10 V 时，无断信号保位功能 请按照以下说明选择拨码开关位置。

Signal	en		信号	zh-cn	
	Output signal	Input signal		输出信号	输入信号
	S3	S2	S3	S2	
0-10 V			0-10 V		
2-10 V			2-10 V		
4-20 mA			4-20 mA		

W1, 20 mA calibration potentiometer

/ 20 mA 校准电位计



From left to right are D4/D10/D7/D6

/ 从左到右为 D4/D10/D7/D6

S4, Signal loss mode settings.

/ 信号丢失模式设置

S2, Selection of Input Signal Types.

/ 选择输入信号类型

S3, Selection of Feedback Signal Types.

/ 选择反馈信号类型

Signal loss mode settings/信号丢失模式设置

en	Under the condition of Y signals not connected, the action mode of the actuator can be selected by the 1 and 2 bits of the S4 dial code switch.
zh-cn	在 Y 信号未接通的情况下，可通过 S4 拨码开关的 1、2 位选择执行器的动作模式。

en	State Position	Run to 0 % (default)	Hold position	Hold position	Run to 100 %
	DIP 1	OFF	ON	OFF	ON
zh-cn	状态位置	运行至 0 % (默认)	保持位置	保持位置	运行至 100 %
	DIP 1	关	开	关	开
	DIP 2	关	关	开	开

Calibration/校准

en	In order to determine the disc position fully closed "0 %" or fully open "100 %", calibration is recommended on initial commissioning of modulating type actuator.
zh-cn	为确定阀板位置处于完全关闭“0%”状态或完全打开“100%”状态，建议在模拟量控制执行器初次调试时进行校准。

Calibration	LED on PCB	Actuator Movement
1. Supply power to terminal 1 and 2.		Flash Actuator moves to the position as indicated by control signal. (D4 flash)
2. Press button S1 for 3 seconds		Lit Actuator moves to "100 %" position (valve open). (D4 light)
		Flash once Actuator stops at "100 %" position (valve open), indicate light flashes (D6), and then the actuator is ready to move towards "0 %" position (valve closed).
		Flash once Actuator moves to "0 %" position (valve closed). (D7 flash once)
		Flash Actuator stops at "0 %" position (valve closed). The indicate light flashes (D4), and then the calibration finished.
3. Calibration finished.		Flash Actuator moves to the position as indicated by control signal. (D4 flash)

Note: When doing the Calibration procedure, the position of the cam calibration shall be already done (refer to cam adjustment).

校准	PCB 上的 LED 灯	执行器动作
1. 接通电源.		闪烁 执行器转动，控制信号指示 LED (D4) 闪烁
2. 按住 S1 保持 3 秒		长亮 执行器转动到 100 % 位置 (阀门开). (D4 亮)
		闪一次 执行器在 100 % 的位置停止 (阀门开)，指示灯 (D6) 闪烁。然后执行器准备向 0 % 的方向转动 (阀门关)
		闪一次 执行器转动到 0 % 位置 (阀门关) (D7 闪一次)
		闪烁 执行器在 0 % 位置停止 (阀门关)，指示灯 (D4) 闪烁。
3. 校准完成		闪烁 执行器转动到位，控制信号指示灯闪 (D4 闪烁)

在凸轮校准完成后，再做执行器校准。

Calibration Actuator / 执行器校准

SQL351B150..6000

SQL361B150..6000

Signal type Selection 0..10V and 4..20 mA signal / 信号类型选择 0..10V 和 4..20 mA

en	<ul style="list-style-type: none"> Factory setting for input and output signal in SQL361B.. is 0..10 V. Factory setting for input and output signal in SQL351B.. is 4..20 mA. *Fail-in position not available at input signal 0..10 V. Select switch as below description.
zh-cn	<ul style="list-style-type: none"> SQL361B..输入和输出信号的出厂设置..是 0..10 V SQL351B..输入和输出信号的出厂设置..是 4..20 mA *在输入信号为 0..10 V 时，无断信号保位功能 请按照以下说明选择拨码开关位置。

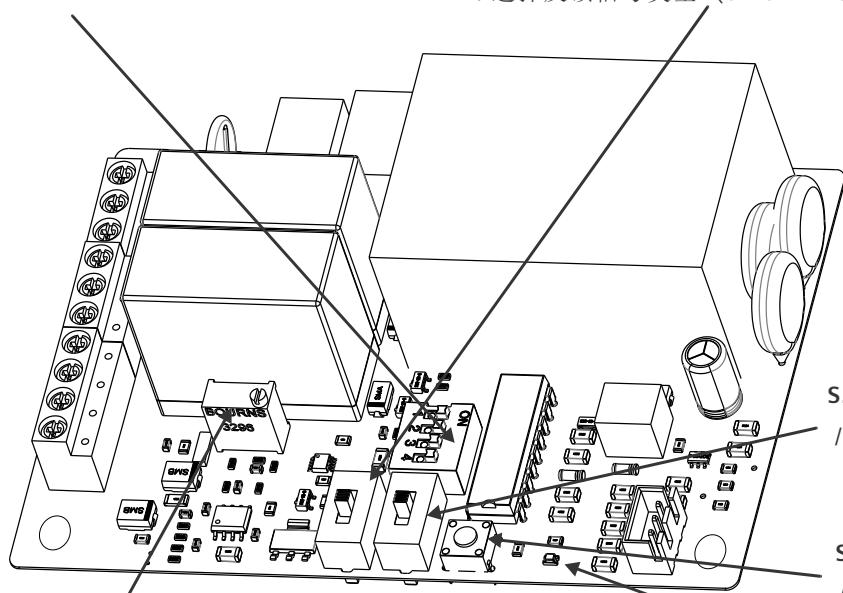
en			zh-cn		
Signal	Output signal	Input signal	信号	输出信号	输入信号
	S3	S2		S3	S2
0-10 V			0-10 V		
2-10 V			2-10 V		
4-20 mA			4-20 mA		

S4, Signal loss mode settings

/ 信号丢失模式设置

S3, Selection of Feedback Signal Types (0-10V 2-10V 4-20mA)

/ 选择反馈信号类型 (0-10V 2-10V 4-20mA)



S2, Selection of Input Signal Types.

/ 选择输入信号类型

S1, One-key calibration

/ 一键校准

W1, 20 mA calibration potentiometer

/ 20 mA 校准电位计

Signal loss mode settings/信号丢失模式设置

en	State Position	Run to 0 % (default)	Hold position	Hold position	Run to 100 %
	DIP 1	OFF	ON	OFF	ON
	DIP 2	OFF	OFF	ON	ON
	DIP 3	Reserve			
	DIP 4	Reserve			
zh-cn	状态位置	运行至 0 % (默认)	保持位置	保持位置	运行至 100 %
	DIP 1	关	开	关	开
	DIP 2	关	关	开	开
	DIP 3	备用			
	DIP 4	备用			

Calibration/校准

Calibration	LED D3		Actuator Movement
1. Supply power to terminal 1 and 2.		Lit	Actuator moves to the position as indicated by control signal.
2. Press button S1 for 3 seconds		Dark	Actuator moves to "100 %" position (valve open).
		Flash once	Actuator stops at "100 %" position (valve open), indicate light flashes, and then the actuator is ready to move towards "0 %" position (valve closed).
		Dark	Actuator moves to "0 %" position (valve closed).
		Flash	Actuator stops at "0 %" position (valve closed). The indicate light flashes, and then the calibration finished.
3. Calibration finished.		Lit	Actuator moves to the position as indicated by control signal.

校准	LED D3		执行器动作
1.接通电源.		长亮	执行器转动，控制信号指示 LED (D4) 闪烁。
2. 按住 S1 保持 3 秒		不亮	执行器转向 100 %位置（阀门开）
		闪一次	执行器在 100 %的位置停止（阀门开），指示灯闪烁。然后执行器准备向 0 %的方向转动（阀门关）
		不亮	执行器转动到 0 %位置（阀门关）
		闪烁	执行器在 0 %位置停止（阀门关），指示灯闪烁。
3. 校准完成		长亮	执行器转动到位，控制信号指示灯长亮。

Indication of operating state/运行状态指示情况 SQL361B.., SQL351B..

en	The LED display indicating operating status can be viewed by opening the cover of the electronics module.
zh-cn	打开电子模块的盖子，可以通过 LED 显示看到运行状态情况。

SQL351B25..50

SQL361B25..50

en	Function	LED Indication				Remarks, troubleshooting
		D10		D4		
Calibration mode	OFF	○	ON		Run calibration, everything ok. ¹⁾	
	ON		Flashing		Calibration error.	
Control mode	OFF	○	Flashing		Automatic operation; everything ok. ¹⁾	
	ON		Flashing		Internal error, troubleshooting ²⁾	
	OFF	○	OFF	○	No power Troubleshooting, eventually replace actuator	
zh-cn	功能	LED 指示灯				备注, 故障排查
		D10		D4		
	校准模式	不亮	○	亮		运行校准, 一切正常 ¹⁾
		亮		闪烁		校准错误。
	控制模式	不亮	○	闪烁		自动运行; 一切正常 ¹⁾
		亮		闪烁		内部错误, 故障排查 ²⁾
		不亮	○	不亮	○	未通电: 故障排查, 最终更换执行器

en	As a general rule, the LED can assume only the states shown above (continuously red, flashing, or off).
zh-cn	一般来说, LED 只能呈现上述状态 (持续红色、闪烁或关闭状态)。

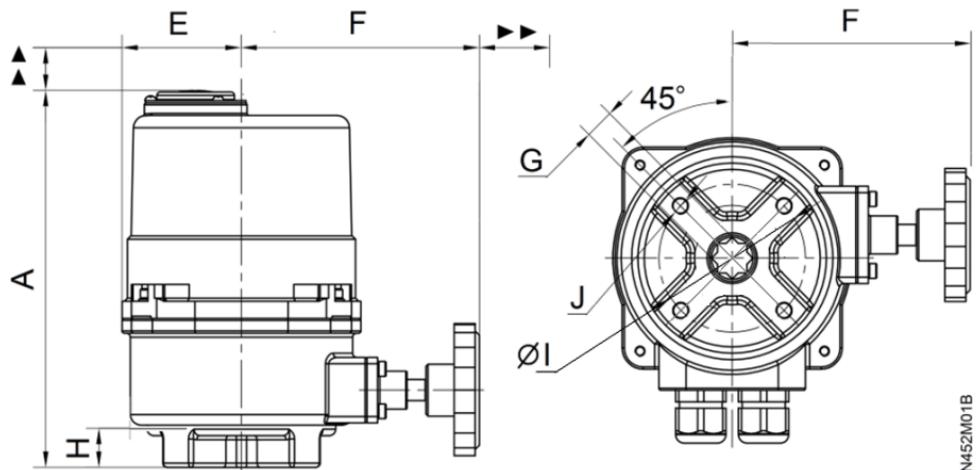
en	1)	The Green LED (D6) with short lit on when reach to "100 %" and the Red LED (D7) with short lit on when reach to "0 %" stroke position.
	2)	When power supply to actuator but no Y control signal and also calibration not started, LED will be continuously light too.
zh-cn	1)	当到达“100 %”行程位置时, 绿色 LED 灯 (D6) 会短暂亮起, 而当到达“0 %”行程位置时, 红色 LED 灯 (D7) 会短暂亮起。
	2)	当向执行器供电但没有 Y 控制信号且校准未开始时, LED 灯也会持续亮起。

	Function	LED Indication	Remarks, troubleshooting
en	Calibration	Off	Run calibration, everything ok.
		Flashing	Calibration error
zh-cn	Control mode	Lit	Automatic operation; everything ok. ¹⁾
		Flashing	Internal error, troubleshooting
		Off	No power: Troubleshooting, eventually replace actuator.

en	As a general rule, the LED can assume only the states shown above (continuously red, flashing, or off).	
zh-cn	一般来说，LED 只能呈现上述状态（持续红色、闪烁或关闭状态）。	

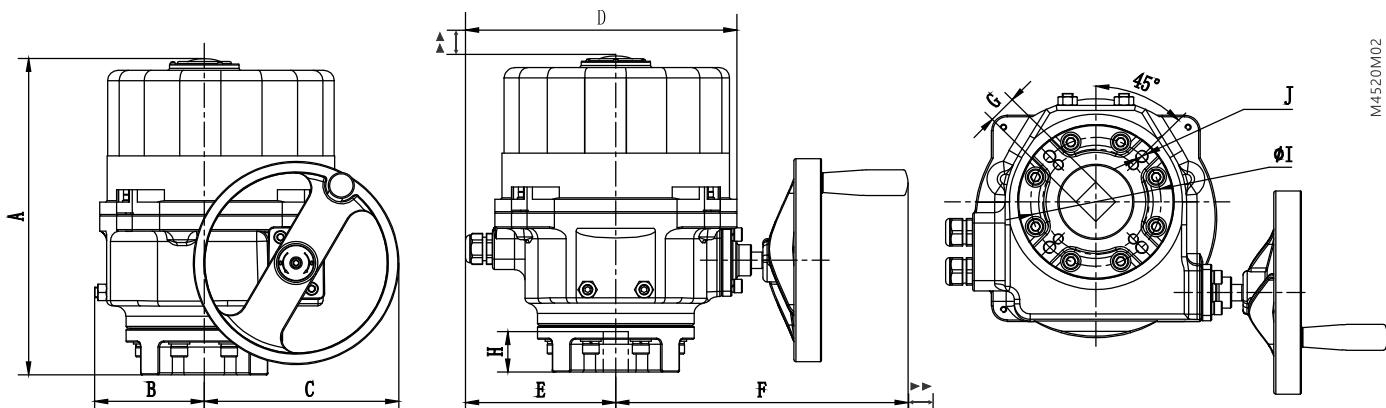
en	¹⁾	When power supply to actuator but no Y control signal and also calibration not started, LED will be continuously red too.
zh-cn	¹⁾	当向执行器供电但没有 Y 控制信号且校准未开始时，LED 灯也会持续保持红色状态。

Dimensions/尺寸 (mm)



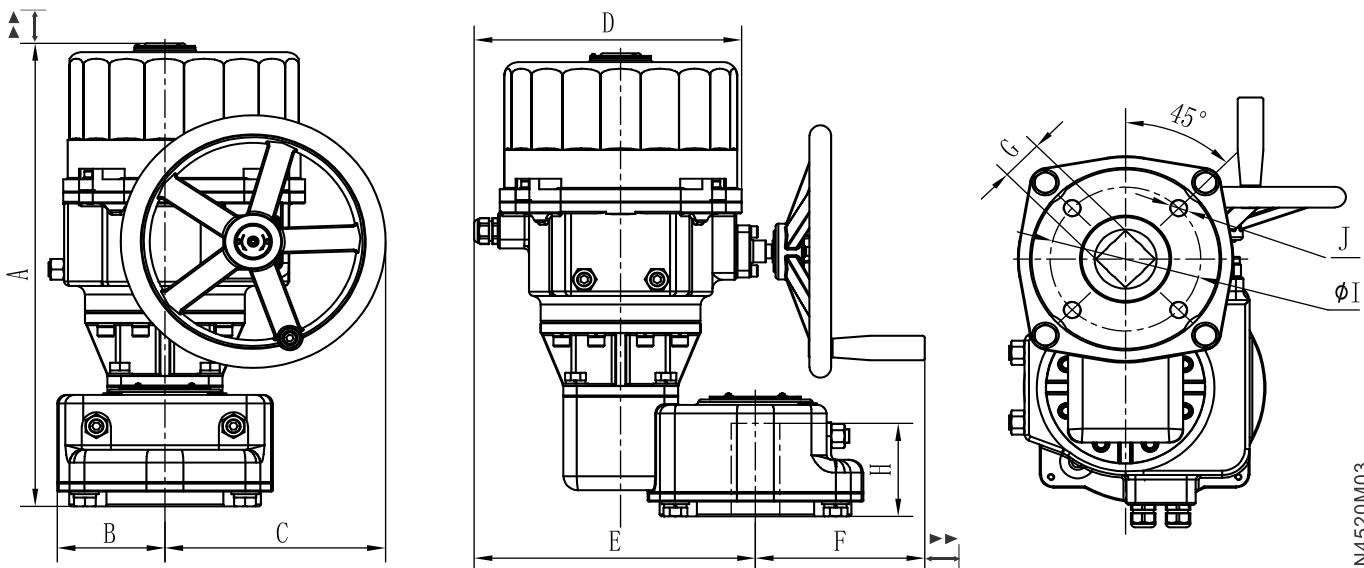
N452M01B

Product No.	A	E	F	H	G □	Ø I	J	Weight [kg]	EN ISO 5211
SQL321B25	179	57	114	20	11	70	4-M8	3.6	F07
SQL361B25	209	57	114	20	11	70	4-M8	3.8	F07
SQL351B25	209	57	114	20	11	70	4-M8	3.8	F07
SQL321B50	179	57	114	20	17	70	4-M8	3.6	F07
SQL361B50	209	57	114	20	17	70	4-M8	3.8	F07
SQL351B50	209	57	114	20	17	70	4-M8	3.8	F07
▲ ▶▶	≥ 200 mm: For mounting, connection, operation, service, etc./用于安装, 连接, 运行, 服务等。								



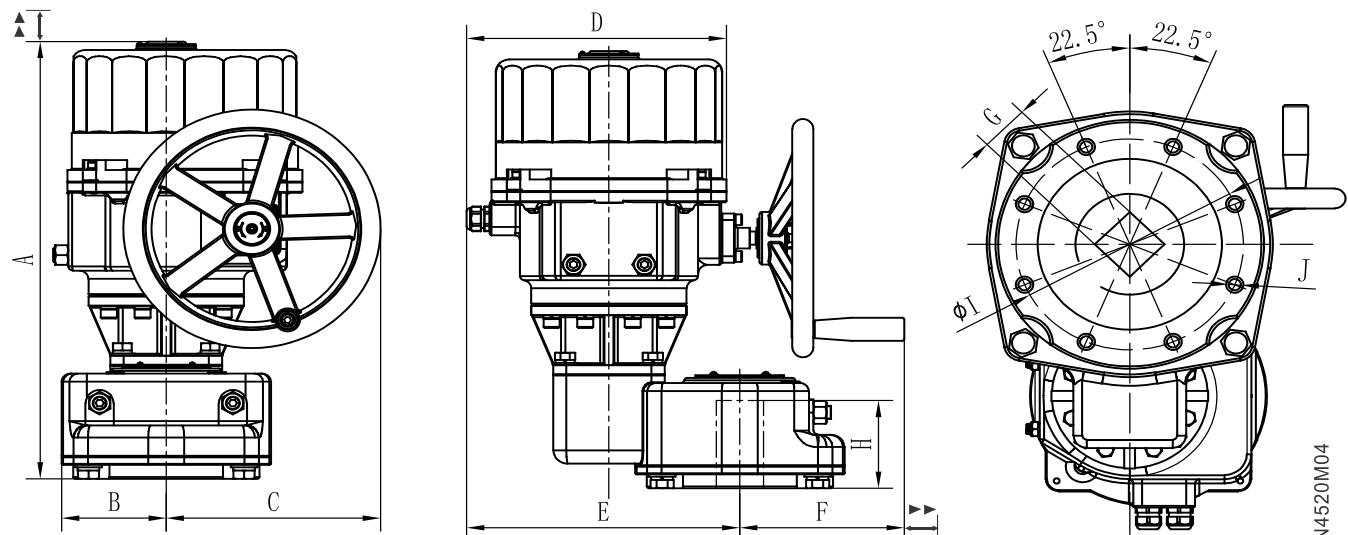
M4520M02

Product No.	A	B	C	D	E	F	G □	H	Ø I	J	Weight [kg]	EN ISO 5211
SQL321B150	250	77	125	216	125	242	17	35	70	4-M8	11	F07
SQL361B150												
SQL351B150												
SQL321B270	308	105	187	262	150	280	22	55	102	4-M10	22	F10
SQL361B270												
SQL351B270												
SQL321B570	308	105	187	262	150	280	27	55	102 125	4-M10 4-M12	22	F10/F12
SQL361B570												
SQL351B570												
SQL321B1400	532	118	242	293	308	186	36	65	140	4-M16	35	F14
SQL361B1400												
SQL351B1400												
▲ ▶▶	≥ 200 mm: For mounting, connection, operation, service, etc./用于安装, 连接, 运行, 服务等。											



N4520M03

Product No.	A	B	C	D	E	F	G	H	Ø I	J	Weight [kg]	EN ISO 5211
SQL321B2650												
SQL361B2650	532	118	242	293	308	186	46	130	165	4-M20	76	F16
SQL351B2650												
▲ ▲	►►	≥ 200 mm: For mounting, connection, operation, service, etc./用于安装, 连接, 运行, 服务等。										



N4520M04

Product No.	A	B	C	D	E	F	G	H	Ø I	J	Weight [kg]	EN ISO 5211
SQL321B6000												
SQL361B6000	545	160	242	293	343	160	60	150	254	8-M16	107	F25
SQL351B6000												
▲ ▲	►►	≥ 200 mm: For mounting, connection, operation, service, etc./用于安装, 连接, 运行, 服务等。										

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