

QUICK MOUNT VISUAL INSTRUCTION MANUAL

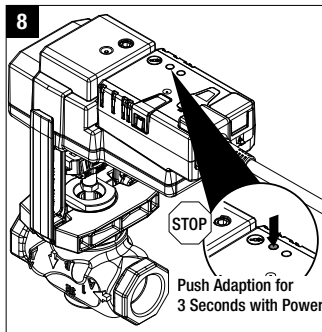
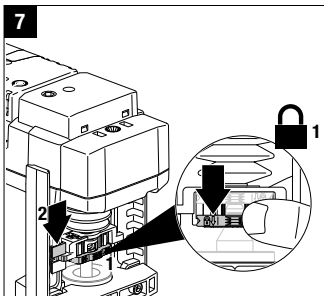
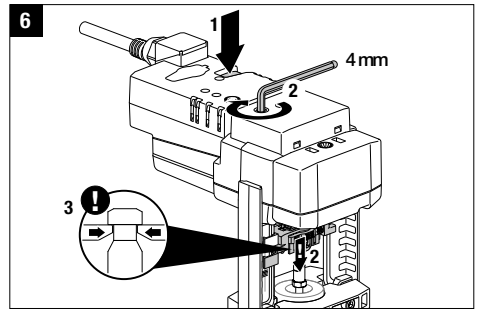
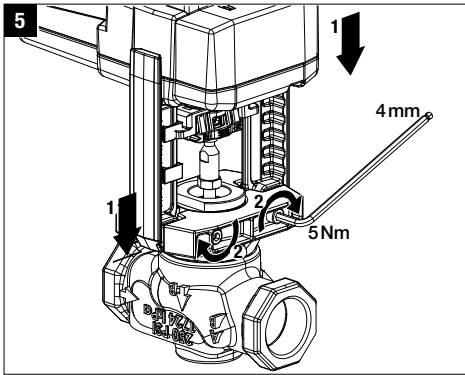
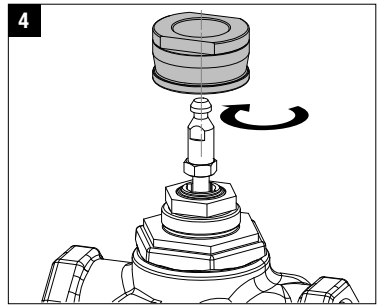
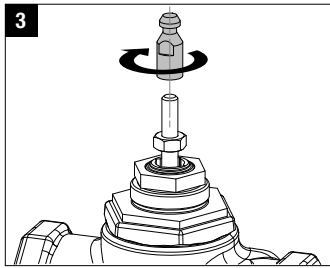
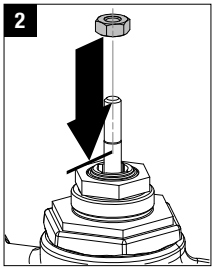
SGVL/G2/G3 Linkage with LV and SV Series Actuators

1

For Stem Up A to AB @ Minimum Control Signal

Signal Direction @ Minimum Control Signal

For Stem Down A to AB @ Minimum Control Signal



Optional Lock and Manual Override

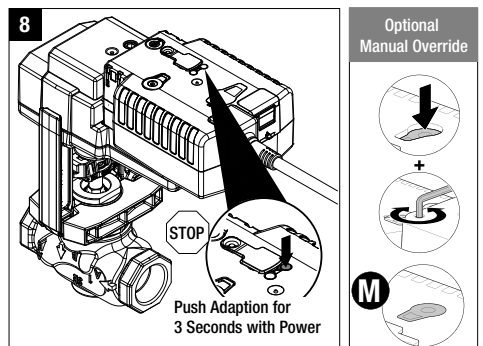
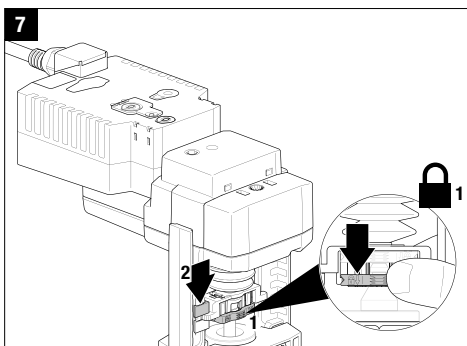
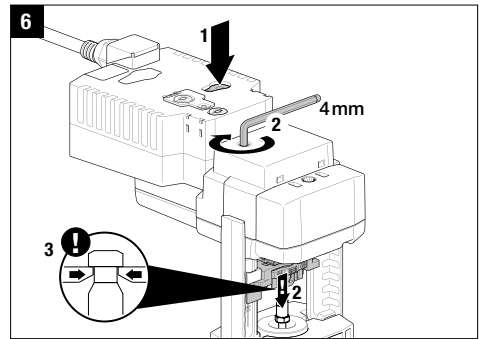
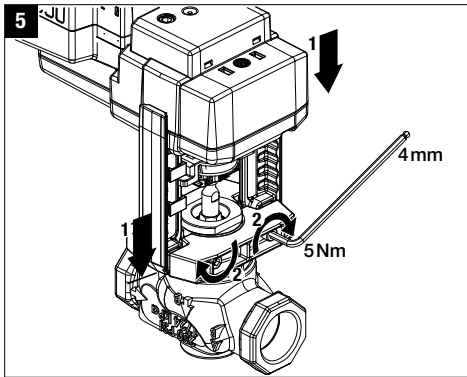
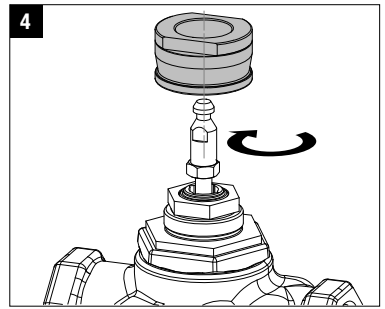
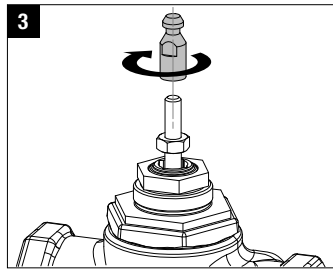
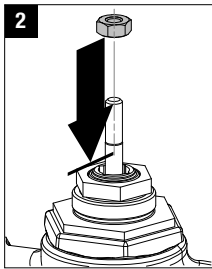
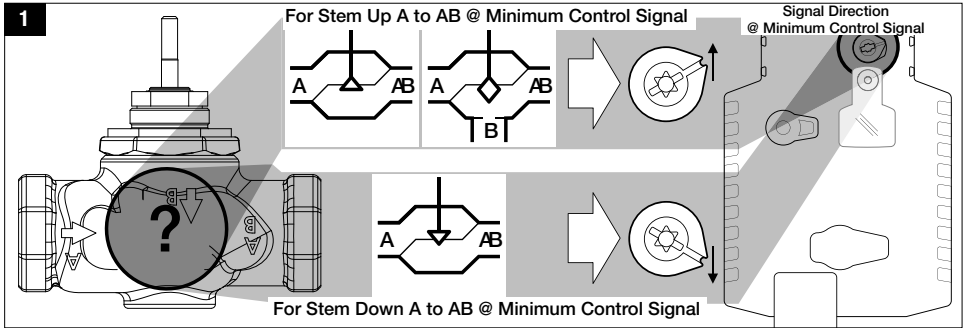
QUICK MOUNT VISUAL INSTRUCTION MANUAL

SGVL/G2/G3 Linkage with LV and SV Series Actuators

WIRING DIAGRAMS

<p>Non-Spring Return Actuator with -3</p> <p>24 VAC Transformer</p> <p>Line Volts</p> <p>Blk (1) Common</p> <p>Red (2) + ↑</p> <p>Wht (3) Y Input ↓</p> <p>Org (18) U Output, 2 to 10 V</p> <p>On/Off</p>	<p>Floating Point</p> <p>24 VAC Transformer</p> <p>Line Volts</p> <p>Blk (1) Common</p> <p>Red (2) + ↑</p> <p>Wht (3) Y Input ↓</p> <p>Org (18) U Output, 2 to 10 V</p> <p>Floating Point</p>	<p>Non-Spring Return Actuator with -SR</p> <p>24 VAC Transformer</p> <p>Line Volts</p> <p>Blk (1) Common</p> <p>Red (2) + Hot</p> <p>Wht (3) Y Input, 2 to 10 V</p> <p>Org (18) U Output, 2 to 10 V</p> <p>VDC / 4 to 20 mA</p>																									
<p>On/Off</p> <p>100 to 240 VAC</p> <p>Line N L1</p> <p>Hot H L2</p> <p>Blu (1) Common -</p> <p>Brn (2) + ↑</p> <p>Wht (3) Y Input ↓</p> <p>Org (2) U Output, 2 to 10 V</p> <p>On/Off</p>	<p>Floating Point</p> <p>100 to 240 VAC</p> <p>Line N L1</p> <p>Hot H L2</p> <p>Blu (1) Common -</p> <p>Brn (2) + ↑</p> <p>Wht (3) Y Input ↓</p> <p>Org (2) U Output, 2 to 10 V</p> <p>Floating Point</p>	<p>Selector Switch</p> <p>Signal Direction</p> <p>Selector Switch</p>																									
<p>Triac Sink</p> <p>24 VAC Transformer (AC only)</p> <p>Line Volts</p> <p>Hot</p> <p>Com</p> <p>Blk (1) Common -</p> <p>Red (2) + Hot</p> <p>Wht (3) Y Input ↓</p> <p>Org (2) U Output, 2 to 10 V</p> <p>Controller</p> <p>Triac Sink</p>	<p>Triac Source</p> <p>24 VAC Transformer (AC only)</p> <p>Line Volts</p> <p>Hot</p> <p>Com</p> <p>Blk (1) Common -</p> <p>Red (2) + Hot</p> <p>Wht (3) Y Input ↓</p> <p>Org (2) U Output, 2 to 10 V</p> <p>Controller</p> <p>Triac Source</p>	<p>Notes:</p> <ul style="list-style-type: none"> ◆ Meets cULus requirements without the need of an electrical ground connection Ⓐ Actuators with appliance cables are numbered. ⚡ Actuators may be connected in parallel. Power consumption and input impedance must be observed. ⚠ Actuators may also be powered by 24 VDC. ⚠ Only connect common to neg. (-) leg of control circuits. ⚠ A 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC. ⚠ Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line. ⚠ Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink. ⚠ For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller. The actuator internal common reference is not compatible. ⚠ IN4004 or IN4007 diode. (IN4007 supplied, Belimo Part number 40155) ⚠ Actuators with plenum rated cable do not have numbers on wires; use color codes instead. 																									
<p>Non-Spring Return Actuator with MFT</p> <p>24 VAC Transformer</p> <p>Line Volts</p> <p>Blk (1) Common</p> <p>Red (2) + Hot</p> <p>Wht (3) Y Input ↓</p> <p>Org (18) U Output</p> <p>2 to 10 VDC Feedback Signal (-)</p> <p>2 to 10 VDC Feedback Signal (+)</p> <p>On/Off</p>	<p>Floating Point</p> <p>24 VAC Transformer</p> <p>Line Volts</p> <p>Blk (1) - Common</p> <p>Red (2) + Hot</p> <p>Wht (3) Y Input ↓</p> <p>Org (18) U Output 2 to 10 V</p> <p>2 to 10 VDC Feedback Signal (-)</p> <p>2 to 10 VDC Feedback Signal (+)</p> <p>500 Ω 1/4 W</p> <p>Direction of rotation switch</p> <p>Floating Point</p>	<p>Notes:</p> <ul style="list-style-type: none"> ◆ Meets cULus requirements without the need of an electrical ground connection Ⓐ Actuators with appliance cables are numbered. ⚡ Actuators may be connected in parallel. Power consumption and input impedance must be observed. ⚠ Actuators may also be powered by 24 VDC. ⚠ Only connect common to neg. (-) leg of control circuits. ⚠ A 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC. ⚠ Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line. ⚠ Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink. ⚠ For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller. The actuator internal common reference is not compatible. ⚠ IN4004 or IN4007 diode. (IN4007 supplied, Belimo Part number 40155) ⚠ Actuators with plenum rated cable do not have numbers on wires; use color codes instead. 																									
<p>VDC / 4 to 20 mA</p> <p>24 VAC Transformer</p> <p>Line Volts</p> <p>Blk (1) Common</p> <p>Red (2) + Hot</p> <p>Wht (3) Y Input, 2 to 10 V</p> <p>Org (18) U Output, 2 to 10 V</p> <p>Control Signal (-) VDC/mA (-)</p> <p>Control Signal (+) VDC/mA (+)</p> <p>500 Ω 1/4 W</p> <p>VDC / 4 to 20 mA</p>	<p>Override Control Min, Mid, Max Positions</p> <p>24 VAC Transformer (AC Only)</p> <p>Line Volts</p> <p>Blk (1) Common + Hot</p> <p>Red (2) + Hot</p> <p>Wht (3) Y Input, 2 to 10 V</p> <p>Org (18) U Output, 2 to 10 V</p> <p>Control Signal (-) VDC/mA (-)</p> <p>Control Signal (+) VDC/mA (+)</p> <p>500 Ω 1/4 W</p> <table border="1"> <thead> <tr> <th>Min</th> <th>Function</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>Min</td> <td>90°</td> <td>+</td> <td>-</td> <td>-</td> </tr> <tr> <td>Mid</td> <td>50%</td> <td>-</td> <td>+</td> <td>-</td> </tr> <tr> <td>Max</td> <td>180°</td> <td>-</td> <td>-</td> <td>+</td> </tr> <tr> <td>Normal</td> <td>Control signal to Y</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>Override Control Min, Mid, Max Positions</p>	Min	Function	A	B	C	Min	90°	+	-	-	Mid	50%	-	+	-	Max	180°	-	-	+	Normal	Control signal to Y	-	-	-	<p>Notes:</p> <ul style="list-style-type: none"> ◆ Meets cULus requirements without the need of an electrical ground connection Ⓐ Actuators with appliance cables are numbered. ⚡ Actuators may be connected in parallel. Power consumption and input impedance must be observed. ⚠ Actuators may also be powered by 24 VDC. ⚠ Only connect common to neg. (-) leg of control circuits. ⚠ A 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC. ⚠ Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line. ⚠ Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink. ⚠ For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller. The actuator internal common reference is not compatible. ⚠ IN4004 or IN4007 diode. (IN4007 supplied, Belimo Part number 40155) ⚠ Actuators with plenum rated cable do not have numbers on wires; use color codes instead.
Min	Function	A	B	C																							
Min	90°	+	-	-																							
Mid	50%	-	+	-																							
Max	180°	-	-	+																							
Normal	Control signal to Y	-	-	-																							

- BRN Brown
- Brown
- Marron
- Bron
- Marrom
- BLU Blue
- Blue
- Azul
- Bleu
- Azul
- ORG Orange
- Orange
- Anaranjado
- Orange
- Alaranjado
- PWK Pink
- Pink
- Rosado
- Rosa
- Cor-de-ros
- WHT White
- White
- Blanco
- Blanc
- Branco
- RED Red
- Red
- Rojo
- Rouge
- Vermelho
- BLK Black
- Black
- Negro
- Noir
- Preto



QUICK MOUNT VISUAL INSTRUCTION MANUAL

SGVL/G2/G3 Linkage with LVK and SVK Series Actuators



WIRING DIAGRAMS

<p>Electronic Fail-Safe Actuator with -3</p> <p>On/Off</p>	<p>Electronic Fail-Safe Actuator with -SR</p> <p>Floating Point</p>	<p>Electronic Fail-Safe Actuator with -SR</p> <p>VDC / 4 to 20 mA</p>
<p>On/Off</p> <p>On/Off</p>	<p>Floating Point</p> <p>Floating Point</p>	<p>VDC / 4 to 20 mA</p> <p>Selector Switches</p>
<p>Triac Sink</p> <p>Triac Sink</p>	<p>Triac Source</p> <p>Triac Source</p>	<p>Triac Sink with Separate Transformer</p> <p>Triac Sink with Separate Transformer</p>
<p>Electronic Fail-Safe Actuator with MFT</p> <p>On/Off</p>	<p>Electronic Fail-Safe Actuator with MFT</p> <p>Floating Point</p>	<p>Notes:</p> <ul style="list-style-type: none"> ◆ Meets cULus requirements without the need of an electrical ground connection Ⓐ Actuators with appliance cables are numbered. ⚠ Actuators may be connected in parallel. Power consumption and input impedance must be observed. ⚠ Actuators may also be powered by 24 VDC. ⚠ Only connect common to neg. (-) leg of control circuits. ⚠ A 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC. ⚠ Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line. ⚠ Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink. ⚠ For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller. The actuator internal common reference is not compatible. ⚠ IN4004 or IN4007 diode. (IN4007 supplied, Belimo Part number 40155) ⚠ Actuators with plenum rated cable do not have numbers on wires; use color codes instead.
<p>VDC / 4 to 20 mA</p> <p>VDC / 4 to 20 mA</p>	<p>Override Control Min, Mid, Max Positions</p> <p>Override Control Min, Mid, Max Positions</p>	<p>Notes:</p> <ul style="list-style-type: none"> ◆ Meets cULus requirements without the need of an electrical ground connection Ⓐ Actuators with appliance cables are numbered. ⚠ Actuators may be connected in parallel. Power consumption and input impedance must be observed. ⚠ Actuators may also be powered by 24 VDC. ⚠ Only connect common to neg. (-) leg of control circuits. ⚠ A 500 Ω resistor converts the 4 to 20 mA control signal to 2 to 10 VDC. ⚠ Control signal may be pulsed from either the Hot (Source) or Common (Sink) 24 VAC line. ⚠ Contact closures A & B also can be triacs. A & B should both be closed for the triac source and open for triac sink. ⚠ For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller. The actuator internal common reference is not compatible. ⚠ IN4004 or IN4007 diode. (IN4007 supplied, Belimo Part number 40155) ⚠ Actuators with plenum rated cable do not have numbers on wires; use color codes instead.

- BRN Brown
- MAI Maroon
- BLU Blue
- BLU Azul
- BLU Bleu
- BLU Azul
- ORG Orange
- ORG Anaranjado
- ORG Orange
- ORG Alaranjado
- PNK Pink
- PNK Rosado
- PNK Rosa
- PNK Cor-de ros
- WHT White
- WHT Blanco
- WHT Blanc
- WHT Branco
- RED Red
- RED Rого
- RED Rouge
- RED Vermelho
- BLK Black
- BLK Negro
- BLK Noir
- BLK Preto