

## Schneider Electric AV-400

# Schneider Electric AV-400 Pneumatic Actuator Valve Linkage Kit User Manual

## INTRODUCTION

The Schneider Electric AV-400 Valve Linkage Kit is designed for field assembly, enabling the connection of mk-2690 Pneumatic actuators to various 1/2 inch through 2 inch valve bodies. This kit is manufactured in the United States by Schneider Electric Buildings, ensuring compatibility and reliable performance within HVAC control systems.

## KIT COMPONENTS

The AV-400 kit includes essential components required for linking pneumatic actuators to valve bodies. These components are designed for specific pressure ranges and valve types.



**Figure 1: AV-400 Linkage Kit Components.** This image displays the various parts included in the kit: three distinct springs (one blue, one black, and one yellow), a flat metal linkage plate, a small brass cylindrical rod, a brass washer, and a brass valve component with multiple openings. These parts collectively facilitate the connection between a pneumatic actuator and a valve body.

- **Springs:** Provided for various control signal applications, including 3 to 7 psig, 5 to 10 psig, and 8 to 13 psig. These springs ensure proper operation across different pressure ranges.
- **Linkage Components:** The kit includes all necessary mechanical parts to establish a secure and functional connection between the actuator and the valve.
- **Compatibility:** This kit is designed to fit both current and obsolete TAC Barber-Colman valve bodies, offering broad applicability.

## SETUP AND INSTALLATION

Proper installation of the AV-400 linkage kit is crucial for optimal performance of your pneumatic actuator and valve system. Always ensure power is disconnected before beginning installation.

1. **Preparation:** Ensure the pneumatic actuator and valve body are clean and free from debris. Identify the correct valve

body size (1/2 inch to 2 inch) for compatibility.

- Spring Selection:** Select the appropriate spring from the kit based on the required control signal application (e.g., 3-7 psig, 5-10 psig, or 8-13 psig). Refer to your system's specifications for the correct pressure range.
- Assembly:** Carefully assemble the linkage components, connecting the pneumatic actuator to the valve body. Follow the specific assembly instructions provided with your actuator and valve for precise alignment and secure fastening.
- Secure Connections:** Ensure all connections are tight and secure to prevent air leaks or mechanical play that could affect performance.
- Testing:** After assembly, perform a functional test of the actuator and valve system to verify correct operation and responsiveness to control signals.

For detailed assembly diagrams and specific instructions pertaining to your particular actuator and valve model, consult the respective manuals provided by Schneider Electric or TAC Barber-Colman.

## OPERATION

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The AV-400 linkage kit itself does not have an independent operational function; rather, it facilitates the operation of the pneumatic actuator and the connected valve. Once properly installed, the linkage kit ensures the mechanical transfer of motion from the pneumatic actuator to the valve stem, allowing the valve to open or close in response to pneumatic control signals.

- Actuator Response:** The linkage translates the force generated by the pneumatic actuator's diaphragm or piston into linear motion for the valve stem.
- Valve Control:** This mechanical connection enables precise control over fluid flow through the valve, based on the pneumatic signal received by the actuator.
- Spring Function:** The selected spring provides the necessary opposing force or return mechanism for the actuator, ensuring the valve returns to its default position (e.g., normally open or normally closed) when the control signal changes or is removed.

Ensure that the pneumatic control system is correctly calibrated and supplying the appropriate pressure signals for the selected spring and desired valve operation.

## MAINTENANCE

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The AV-400 linkage kit is designed for durability and minimal maintenance. However, periodic inspection can help ensure long-term reliability and prevent system failures.

- Visual Inspection:** Regularly inspect all components of the linkage kit for signs of wear, corrosion, or damage. Check for any loose connections or excessive play.
- Cleanliness:** Keep the linkage components clean and free from dust, dirt, or other contaminants that could impede smooth operation.
- Lubrication:** While not typically required for the linkage components themselves, ensure that the actuator and valve stem are properly lubricated according to their respective maintenance schedules.
- Spring Integrity:** Verify that the installed spring is not deformed or fatigued, as this could affect the actuator's response and valve positioning.
- Replacement:** If any component of the linkage kit shows significant wear or damage, replace it with genuine Schneider Electric parts to maintain system integrity and performance.

Always disconnect power and relieve pneumatic pressure before performing any maintenance or inspection on the system.

## TROUBLESHOOTING

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Issues related to the AV-400 linkage kit typically manifest as improper valve operation or actuator response. Here are some common troubleshooting steps:

- **Valve Not Opening/Closing Fully:**

- Check for obstructions or binding in the linkage mechanism.
- Verify that the correct spring is installed for the pneumatic control signal range.
- Inspect the actuator and valve for internal issues (refer to their respective manuals).

- **Sluggish Response:**

- Ensure all linkage connections are secure and free of excessive play.
- Check for friction or debris within the linkage components.
- Confirm adequate pneumatic pressure supply to the actuator.

- **Unusual Noises:**

- Inspect for loose components or worn parts that may be rattling.
- Check for misalignment between the actuator and valve.

- **Spring Issues:**

- If the valve does not return to its default position, the spring may be fatigued or incorrectly installed.
- Ensure the spring is seated correctly and not bent.

If troubleshooting steps do not resolve the issue, it may indicate a problem with the pneumatic actuator or the valve itself, or a need to replace worn linkage components. Contact qualified service personnel if you are unable to diagnose or fix the problem.

## SPECIFICATIONS

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Attribute	Value
Product Model Number	AV-400
Compatibility	mk-2690 Pneumatic Actuators to 1/2 inch through 2 inch Valve Bodies (including current and obsolete TAC Barber-Colman valve bodies)
Spring Control Signal Ranges	3 to 7 psig, 5 to 10 psig, 8 to 13 psig
Manufacturer	Schneider Electric Buildings
Country of Origin	United States
Package Dimensions	6.85 x 4.45 x 1.65 inches
Item Weight	6.4 ounces

## WARRANTY INFORMATION

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Specific warranty details for the Schneider Electric AV-400 Pneumatic Actuator Valve Linkage Kit are not provided in the available product information. For warranty terms and conditions, please refer to the official Schneider Electric website or contact their customer service directly. It is recommended to retain your proof of purchase for any warranty claims.

## CUSTOMER SUPPORT

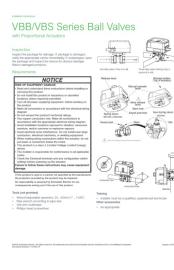
For technical assistance, product inquiries, or support regarding the Schneider Electric AV-400 Pneumatic Actuator Valve Linkage Kit, please contact Schneider Electric customer support. Contact information can typically be found on the official Schneider Electric website or within the packaging of your product.

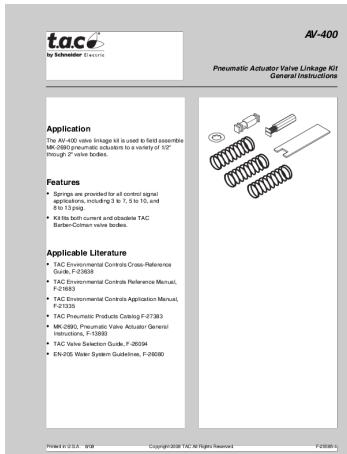
**Online Resources:** Visit the official Schneider Electric website for product documentation, FAQs, and support resources.

**Professional Assistance:** If you are unsure about installation or troubleshooting, it is always recommended to consult with a qualified HVAC professional.

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## Related Documents

	<p><a href="#">MF20 Butterfly Valve Actuator - Technical Specifications and Ordering</a></p> <p>Detailed technical specifications, features, ordering information, and dimensions for the Schneider Electric MF20 Butterfly Valve Actuator, compatible with VF208W valves.</p>
	<p><a href="#">Schneider Electric VBB/VBS Series Ball Valves with Proportional Actuators Installation Guide</a></p> <p>Detailed installation instructions for Schneider Electric VBB/VBS Series Ball Valves featuring proportional actuators. Covers inspection, requirements, piping, mounting, wiring, operation theory, maintenance, dimensions, and agency listings.</p>
	<p><a href="#">SpaceLogic KNX Flush Mounted Universal Dimming Actuator 1g with 3 Binary Inputs - MTN6003-0013</a></p> <p>Installation and technical specifications for the Schneider Electric SpaceLogic KNX Flush Mounted Universal Dimming Actuator 1g (MTN6003-0013). This device controls lighting and integrates with KNX systems, featuring 3 binary inputs for versatile automation.</p>
	<p><a href="#">Schneider Electric Altivar Process ATV630/ATV900 Variable Speed Drive End of Life Instructions</a></p> <p>Detailed end-of-life instructions and component breakdown for Schneider Electric Altivar Process ATV630 and ATV900 variable speed drives, including safety information and material recycling guidance.</p>

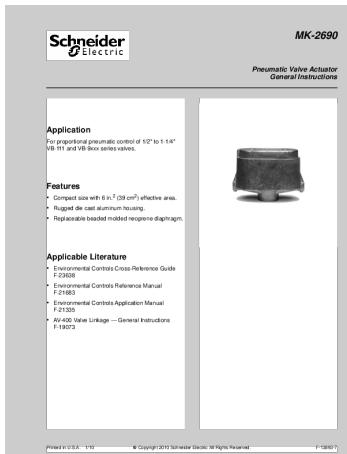


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**AV-400** Pneumatic Actuator Valve Linkage Kit General Instructions Application The **AV-400** valve linkage kit is used to field assemble MK-2690 pneumatic actuators to a variety of 1/2" through 2" valve bodies. Features Springs are provided for all control signal applications, including 3 to 7, 5 to 10,...

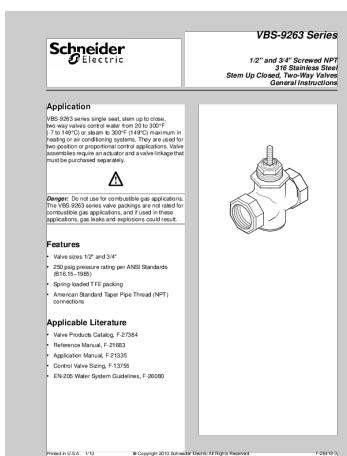
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AV 400 Valve Linkage — General Instructions 19073 Pneumatic Actuator Operating 20 to 220° 29 104° C  
Humidity 5 95% RH Remove diaphragm and its retainer from actuator housing by pulling them straight out PNEUMATIC VALVE ACTUATOR Installation kele Catalog 16 Pneumatics Fittings 80  
Application For proportional pneumatic control of 1/2 to 1-1/4 VB-111 and VB-9xxx series valves. F ... Environmental Controls Reference Manual F-21683 Environmental Controls Application Manual F-21335 **AV-400** Valve Linkage -- General Instructions F-19073 MK-2690 Pneumatic Valve Actuator General Instr...

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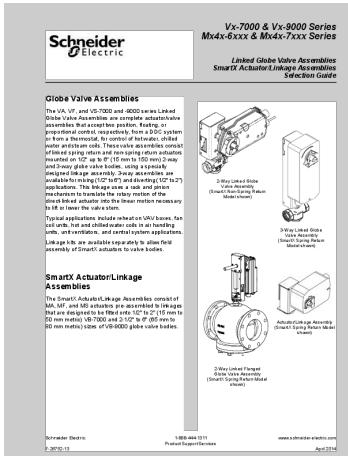


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Application VBS-9263 series single seat, stem up to close, two-way valves control water from 20 to 3 ... -5411, MP-5413 MPR-5610, MPR-5611, MPR-5613 MPR-5713  
Required Valve Linkage AV-600 AV-600 AV-601 **AV-400** AV-600 AV-601 Normal Position Normally Closed Flow Characteristics All valves have modifi...

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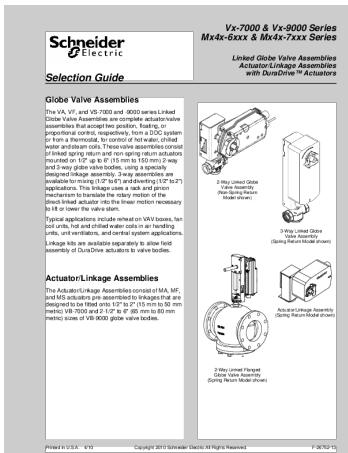
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Vx-7000 Vx-9000 Series Mx4x-6xxx Mx4x-7xxx Series Linked Globe Valve

Assemblies SmartX Actuator ... ves 1/2 through 1-1/4 32 mm . Actuator mounting is compatible with any valve which can accept an **AV-400** or **AV-600** linkage. c To determine a specific part number, see the Linked Globe Valve Assembly...

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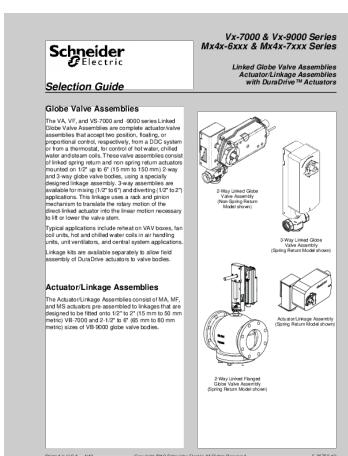


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Selection Guide Globe Valve Assemblies The VA, VF, and VS-7000 and -9000 series Linked Globe Valve A ... ves 1/2 through 1-1/4 32 mm . Actuator mounting is compatible with any valve which can accept an **AV-400** or **AV-600** linkage. c To determine a specific part number, see the Linked Globe Valve Assembly...

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Selection Guide Globe Valve Assemblies The VA, VF, and VS-7000 and -9000 series Linked Globe Valve A ... ves 1/2 through 1-1/4 32 mm . Actuator mounting is compatible with any valve which can accept an **AV-400** or **AV-600** linkage. c To determine a specific part number, see the Linked Globe Valve Assembly...

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**Schneider Electric**  
Selection Guide

**Va-7000 & Vs-9000 Series**  
**Mxa4-6xxx & Mxa4-xxxx Series**

**Globe Valve Assemblies**  
The VA, VF, and VS-7000 and -9000 series Linked Globe Valve Assemblies are complete actuator/valve assemblies. They are designed for use with proportional control, respectively, from a DDC system or a 3-way valve assembly. These assemblies consist of a globe valve body, a valve assembly, and a DDC mounted on top. Up to 6 in. (150 mm) 2 way and 4 in. (100 mm) 3 way globe valve assemblies are designed for use with a DDC system or a 3-way linkage assembly. These assemblies consist of a globe valve body, a valve assembly, and a DDC mounted on top. Up to 6 in. (150 mm) 2 way and 4 in. (100 mm) 3 way globe valve assemblies are designed for use with a DDC system or a 3-way linkage assembly. This linkage uses a rack and pinion mechanism to convert the linear motion of the valve disc linked actuator into the linear motion necessary for the valve to open or close.

**Typical applications** include reheat in VAV boxes, fan coil units, hot and chilled water coils in air handling units, water treatment, and industrial process applications. 1/4 way globe valve assemblies are also available separately to allow field assembly of complete assemblies to valve bodies.

**Actuator/Linkage Assemblies**  
The Actuator/Linkage Assemblies consist of MA, MF, and MS actuators pre-assembled to linkages that are compatible with any valve which can accept an AV-400 or AV-600 linkage. 1/4 way globe valve assemblies are available in sizes 1/2" through 2" in 1/2" increments. AV-7000 and 2 1/2" to 4" (80 mm to 80 mm metric) sizes. VS-9000 globe valve bodies.

**Linkage Assemblies**  
The VA, VF, and VS-7000 and -9000 series Linked Globe Valve A ... ves 1/2 through 1-1/4 32 mm . Actuator mounting is compatible with any valve which can accept an **AV-400** or **AV-600** linkage. c To determine a specific part number, see the Linked Globe Valve Assembly...

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**AV-400**  
Pneumatic Actuator Linkage Kit

**Application**  
The AV-400 valve linkage kit is used to field assemble MK-2690 pneumatic actuators to a variety of 1/2" through 2" valve bodies.

**Features**  
• Springs are provided for all control signal applications, including 3 to 7, 5 to 10, and 8 to 15 psig.  
• Kit fits both current and obsolete TAC Barber-Greene valve bodies.

**Applicable Literature**  
• Environmental Controls Cross Reference Guide, F-0369  
• Environmental Controls Reference Manual, F-21683  
• Environmental Controls Application Manual, F-21335  
• Pneumatic Products Catalog, P-2793  
• MK-2690, Pneumatic Valve Actuator General Instructions, F-19073  
• Valve Selection Guide, F-20394  
• EN-206 Water System Guidelines, F-20600

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**AV-400**  
Pneumatic Actuator Valve Linkage Kit General Instructions

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• Environmental Controls Reference Manual, F-21683  
• Environmental Controls Application Manual, F-21335  
• Pneumatic Products Catalog, P-2793  
• MK-2690, Pneumatic Valve Actuator General Instructions, F-19073  
• Valve Selection Guide, F-20394  
• EN-206 Water System Guidelines, F-20600

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**MK-2690**  
Pneumatic Valve Actuator General Instructions

**Application**  
For proportional pneumatic control of 1/2" to 1-1/4" VB-111 and VB-9xxx series valves.

**Features**  
• Compact size with 6 in.<sup>2</sup> (39 cm<sup>2</sup>) effective area.  
• Rugged die cast aluminum housing.  
• Replaceable diaphragm.

**Applicable Literature**  
• Environmental Controls Cross Reference Guide, F-0369  
• Environmental Controls Reference Manual, F-21683  
• Environmental Controls Application Manual, F-21335  
• AV-400 Valve Linkage -- General Instructions F-19073

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**Selection Guide Globe Valve Assemblies** The VA, VF, and VS-7000 and -9000 series Linked Globe Valve A ... ves 1/2 through 1-1/4 32 mm . Actuator mounting is compatible with any valve which can accept an **AV-400** or **AV-600** linkage. c To determine a specific part number, see the Linked Globe Valve Assembly...

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AV 400 Pneumatic Valve Actuator Linkage Kit PNV 145 45 Invensys Spring Apex Controls F 25585  
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**Installation Instructions AV-400 Pneumatic Actuator Linkage Kit** schneider-electric.com 1 **AV-400 Pneumatic Actuator Valve Linkage Kit General Instructions**

**Application** The **AV-400** valve linkage kit is used to field assemble MK-2690 pneumatic actuators to a variety of 1/2 through 2 valve bodies. F...

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**AV-400 Pneumatic Actuator Valve Linkage Kit General Instructions Application** The **AV-400** valve linkage kit is used to field assemble MK-2690 pneumatic actuators to a variety of 1/2 through 2 valve bodies. Features Springs are provided for all control signal applications, including 3 to 7, 5 to 10,....

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**Application** For proportional pneumatic control of 1/2 to 1-1/4 VB-111 and VB-9xxx series valves. F ... Environmental Controls Reference Manual F-21683 Environmental Controls Application Manual F-21335 **AV-400 Valve Linkage -- General Instructions** F-19073 MK-2690 Pneumatic Valve Actuator General Instr...

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**Schneider Electric**

**AV-400**

**Pneumatic Actuator Valve Linkage Kit General Instructions**

**Application**  
The AV-400 valve linkage kit is used to field assemble MK-2690 pneumatic actuators to a variety of 1/2 through 2" valve bodies.

**Features**

- Springs are provided for all control signal applications, including 3 to 7, 5 to 10, and 10 to 15 psi.
- Kit fits both current and obsolete TAC Barber-Colman valve bodies.

**Applicable Literature**

- Control Valve Catalog Reference Guide, F-2088
- Environmental Controls Reference Manual, F-2160
- Environmental Controls Application Manual, F-2188
- Pneumatic Products Catalog F-2703
- MK-2690 Pneumatic Valve Actuator General Instructions, F-1988
- Valve Selection Guide, F-2004
- DWS20 Water System Guidelines, F-2020

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**AV-400 Pneumatic Actuator Valve Linkage Kit General Instructions Application The**  
**AV-400** valve linkage kit is used to field assemble MK-2690 pneumatic actuators to a variety of 1/2 through 2 valve bodies. Features Springs are provided for all control signal applications, including 3 to 7, 5 to 10,...

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Schneider Electric North America Valves Actuators Catalog F 27855 9 LR iportal2 schneider electric Contents docs

Valves Actuators Catalog North America EcoBuilding 2018 www.schneider-electric.com About Schne ... I spring retracts actuator shaft and raises valve stem on loss of air pressure. Springs provided in **AV-400** or AV-7400 linkage order separately . 3-9/16 H x 5 W x 2 D 90 x 127 x 57 mm F-27855-9 V...

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**Schneider Electric**

**VB-7323 Series**

**1/2" to 2" Screened 3-Way Three-Way Diverting Valve General Instructions**

**Application**  
VB-7323 three way diverting valves control hot or chilled water in heating or air conditioning systems. These valves meet the standards as listed and are used in heating, air conditioning, and refrigeration applications. Valve assembly required as individual components must be purchased separately.

**Features**

- Valves sizes 1/2" to 2".
- 250 psi pressure rating per ANSI Standards (375 psi for 1/2" and 1" sizes).
- Spring loaded TFE packing.
- American Standard Pipe Thread (NPT) compression.

**Applicable Literature**

- Valve Product Catalog, F-2094
- Cross Reference Guide, F-2098
- Reference Manual, F-2182
- Application Manual, F-2132
- Control Valve Catalog F-1988
- Valve Selection Guide, F-2004
- DWS20 Water System Guidelines, F-2020

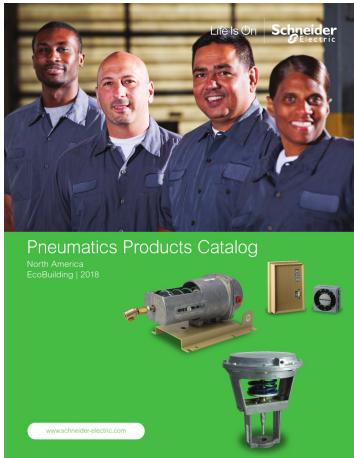
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VB 7323 Series Schneider Electric 1 888 444 1311 schneider electric Product Support Services F 26076 4 June 2016 tc Application series three way diverting valves control hot or chilled water in heating air conditioning systems iportal2 Contents docs |||

Application VB-7323 series three-way diverting valves control hot or chilled water in heating or air ... -601 Stem Up MF-22203, MF-22303, MF-22323 MF-63103, MF-63123 Included w/Actuator None MK-2690 **AV-400** MK-4601, MK-4611, MK-4621 AV-401 Stem Up MK-6601, MK-6611, MK-6621 AV-430 MM-400, MMR-4...

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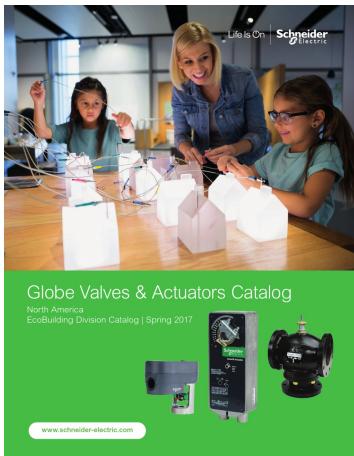
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Pneumatics Products Catalog Pneumatics Products Catalog North America EcoBuilding 2018 www.schneider ... no load condition, spring ranges based on 1/2 in. 13 mm maximum stroke, provided by AV-7400 or **AV-400** linkage order separately .

Specifications Inputs Compatible with Start point Air connection...

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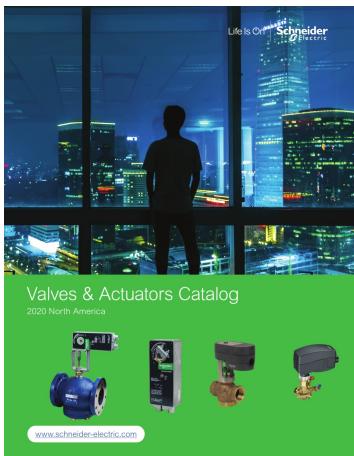
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Globe Valves Actuators Catalog North America EcoBuilding Division Catalog Spring 2017 www.schnei ... I spring retracts actuator shaft and raises valve stem on loss of air pressure. Springs provided in **AV-400** or AV-7400 linkage order separately . 3-9/16 H x 5 W x 2 D in. 90 x 127 x 57 mm F-27855-6...

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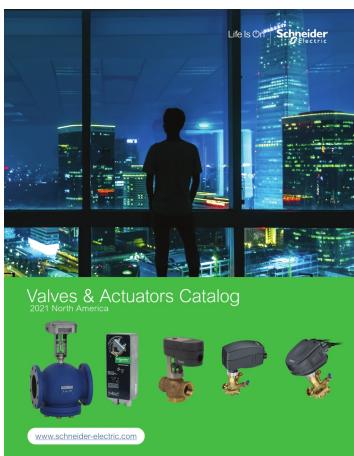


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Valves Actuators Catalog 2020 North America www.schneider-electric.com About Schneider Electric ... ptional Accessories below 3-9/16 H x 5 W x 2 D 90 x 127 x 57 mm Spring Linkages AK-42309-500 **AV-400** AV-7400 TOOLS factory available TOOL-095-1 Maintenance Parts PNV-144-43 PNV-145-45 PNV-145-...

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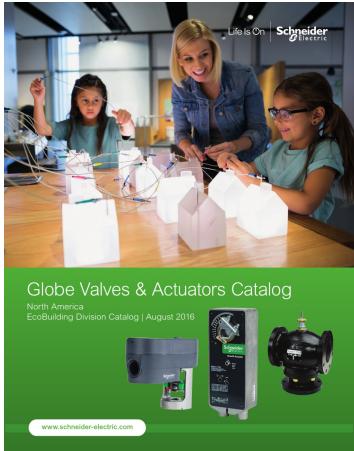
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TAC is a Schneider E ... 54, 192 AV-396 .....33, 88, 130, 154, 192 AV-39X  
.....90, 192 **AV-400** .....51, 122, 143, 193, 193 AV-401 .14, 22,  
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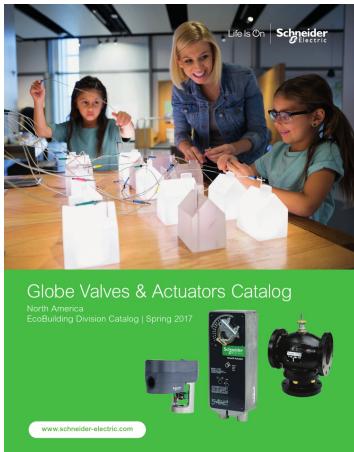


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AV-400

Pneumatic Actuator Valve Linkage Kit  
General Instructions**Application**

The AV-400 valve linkage kit is used in 100 case ratio for valve applications where a valve of 1" to

through 2" valve bodies

**Features**

- Suitable for pneumatic control signal applications, including 3/8, 7/8, 9/8, 10, and 14/16 in. valves
- Has 100:1 current and absolute stroke Environmental Controls (Burke Coker) valve bodies

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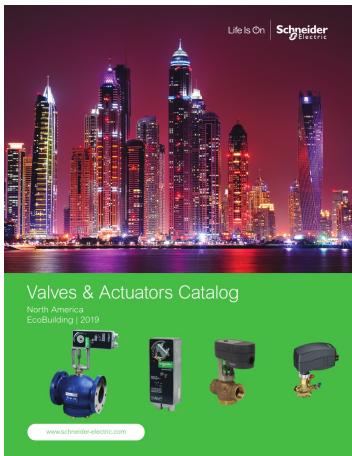
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Applicable Literature

- Schen Environmental Control Cross Reference Guide
- Schen Environmental Control Reference Manual, F-2160
- Schen Environmental Control Application Manual, F-2165
- Schen Environmental Control Catalog, F-2161
- Schen Environmental Control Catalog, F-2162
- Schen Environmental Control Valve Selection Guide, F-2163
- Schen Environmental Control Valve Selection Guide, F-2164
- DN 200 Valve System Guidelines, F-21609

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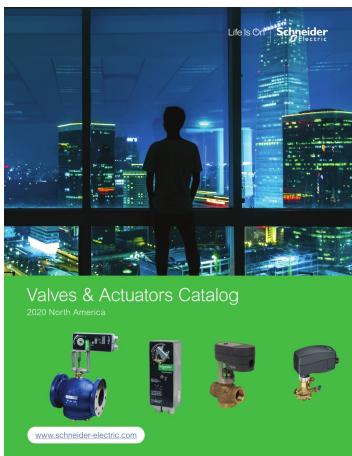
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**Schneider**  
Electric

**AV-400**

**Pneumatic Actuator Valve Linkage Kit General Instructions**

**Application**  
The AV-400 valve linkage kit is used to field assemble MK-2690 pneumatic actuators to a variety of 1/2 through 2" valve bodies.

**Features**

- Springs are provided for all control signal applications, including 3 to 7, 5 to 10, and 10 to 15 psi.
- Kit fits both current and obsolete TAC Barber-Colman valve bodies.

**Applicable Literature**

- Environmental Controls Cross-Reference Guide, F-21683
- Environmental Controls Reference Manual, F-21683
- Environmental Controls Application Manual, F-21335
- Pneumatic Products Catalog F-21933
- MK-2690 Pneumatic Valve Actuator General Instructions, F-19073
- Valve Selection Guide, F-20004
- DIN-286 Water System Guidelines, F-20200

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**AV-400 Pneumatic Actuator Valve Linkage Kit General Instructions Application** The AV-400 valve linkage kit is used to field assemble MK-2690 pneumatic actuators to a variety of 1/2 through 2 valve bodies. Features Springs are provided for all control signal applications, including 3 to 7, 5 to 10,...

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**Schneider**  
Electric

**MK-2690**

**Pneumatic Valve Actuator General Instructions**

**Application**  
For proportional pneumatic control of 1/2" to 1-1/4" VB-111 and VB-9xx series valves.

**Features**

- Compact size with 6 in.<sup>2</sup> (39 cm<sup>2</sup>) effective area.
- Rugged die cast aluminum housing.
- Replaceable bonded molded neoprene diaphragm.

**Applicable Literature**

- Environmental Controls Cross Reference Guide F-21683
- Environmental Controls Reference Manual F-21683
- Environmental Controls Application Manual F-21335
- AV-400 Valve Linkage -- General Instructions F-19073

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