

Mounting Instructions for Pepperl+Fuchs® Limit Switches to ISO 5211-Compliant Actuators



Kit Contents



Limit switch with cable
NCN3-F25-N4-V1
NBN4-F25-E8-V1

For additional information,
see Pepperl+Fuchs product
literature.

or



**Limit switch
without cable**



**Socket head cap
screws with washers**
(2)



**Countersunk
machine screws**
(2)

Not Included in Kit



ISO 5211-Compliant Actuator

Tools Required

Tool	Size	Component
 Torque wrench	Capable of 50 in-lb (5.7 N·m)	Socket head cap screws
 Hex bit	5/32 in.	
 Phillips head screwdriver	—	Actuator puck screws Countersunk machine screws

⚠ WARNING

Before removing the valve from service, to avoid personal injury, you must:

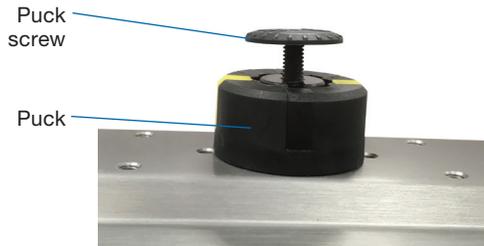
- Depressurize the system
- Cycle the valve
- Purge the system to remove any residual system media left in the valve

⚠ CAUTION

Actuated assemblies must be properly aligned and supported. Improper alignment or inadequate support of the actuated assembly may result in leakage or premature valve failure.

Assembly Instructions

1. Position the actuator with the Swagelok® logo facing you.
2. Loosen the plastic **puck screw** by turning it counterclockwise until the **puck** can be removed from the actuator.



3. Determine the desired ball/actuator position of your assembly. Use the images below to determine the position of the countersunk machine screws provided in the kit.



2-way - Closed



2-way - Open



3-way - X pattern



3-way - XL pattern

4. Thread the countersunk machine screws into the puck until flush.
Note: the countersunk machine screws are not shown flush to show the proper location of the screws.
5. Select the correct puck orientation below for your assembly. Replace the puck on the shaft of the actuator.



2-way - Closed



2-way - Open



3-way - X pattern

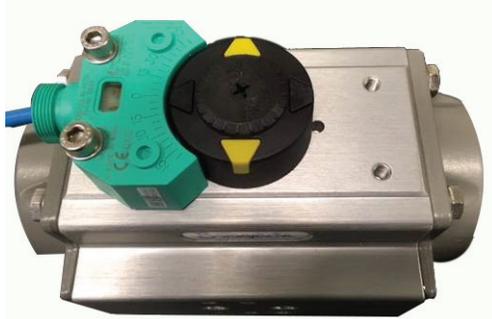


3-way - XL pattern

6. Tighten the plastic puck screw by turning clockwise until wrench-tight.
7. Place the washers onto the socket head cap screws as shown.



8. Align the limit switch bolt holes with the holes on the left side of the actuator (with the Swagelok logo facing you).



9. Thread the socket head cap screws into the bolt holes, then torque to 15 to 25 in.-lb (1.7 to 2.8 N-m).



*For additional information, see **swagelok.com**.*