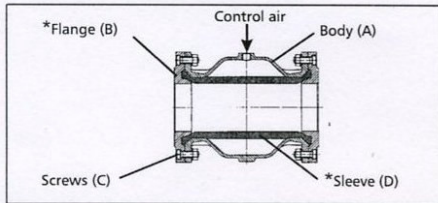


# Sleeve Replacement for AKO Flanged Pinch Valves Types V and VF; Sizes 4" to 10" (DN 100 to 250 mm)



**Be safe! Wear your safety glasses at all times when performing this work!**



## Items required to perform this work:

Old AKO pinch valve, replacement sleeve, mounting tube\*, mounting board\*, sleeve lubricant (AKO MP200)\*, temporary long mounting bolts\*, nuts\*, flat washers\*, tools and these instructions.

**Note:** Do not use any grease, oily paste, WD40 or other petroleum based product, which is incompatible with the sleeve material and may affect the operation of the sleeve.

Items marked with an (\*) are available packaged as a kit from the factory.

## Tools:

Safety glasses, gloves, paint brush 1" to 1 1/2" wide, wrenches that fit mounting bolts, ratchet with socket, pair of pliers, large screw driver to pry. Note that standard short and long deep sockets are both useful.

Air supply hose with no more than 60 psi and air fitting to connect to pinch valve.

## Removal of old sleeve

Remove mounting bolts (C), nuts and washers, from each flange (B). Pry off flanges from both ends of valve body (A). Hold down valve body and, using a pair of pliers, pull out the old sleeve (D). Inspect valve body and flanges for wear or damage and replace as necessary.

**Note:** Old sleeve may be easier to remove after applying some sleeve lubricant between valve body and sleeve (AKO MP200).

## Installation of new sleeve

**Note:** To prevent damage to valve parts do not use any sharp tools during sleeve assembly.



Picture 1



Picture 2

### Picture 1

Using sleeve lubricant (AKO MP200) liberally coat inside and outside surfaces of the sleeve ends, cones of flanges and inside surfaces of valve body ends where sleeve will make contact.



Picture 3



Picture 4

### Picture 2

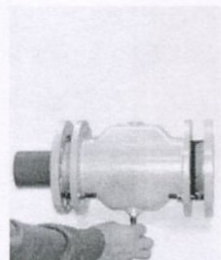
Push the new sleeve through the valve body so that the ends protrude out the same distance from each end of the valve body.

### Picture 3 and 4

Assemble both flanges to valve body using either two or four (depending on size of valve) temporary long mounting bolts, flat washers and nuts. Hand tighten the nuts so the flanges are snug on the sleeve. Do not try to insert the flange bevel into the sleeve at this time.

### Picture 5

Insert the mounting tube into the sleeve for 5/6 of its full length and pressurize the valve body by connecting to 60 psi maximum air supply.



Picture 5



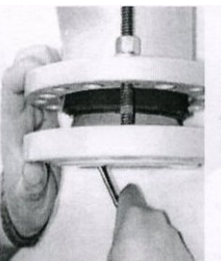
Picture 6

### Picture 6

Now, tighten the mounting bolts two more turns and using the boxed end of a wrench force the sleeve ends behind and over the beveled edge of the cone of the flange. Do not release the compressed air pressure.

### Picture 7

After the sleeve is fitted around the cone of the flange continue to tighten the temporary long mounting bolts until the short mounting bolts, flat washers and nuts can be properly installed. Remove the temporary long mounting bolts and replace with shorter bolts. Tighten all short mounting bolts until the flange fits tight to the valve body and all nuts are tight. Release air pressure from valve housing.



Picture 7



Picture 8

Reposition the mounting tube 5/6 of its full length into the flange end that was just assembled and reconnect the 60 psi maximum air supply to the valve body. Install the second flange the same way as described above. Release the compressed air pressure and remove the mounting tube. Verify that all bolts are tight.

### Picture 8

To align sleeve closing position insert the mounting board inside the sleeve with the narrow edge facing the air fitting in the valve body. Pressurize the valve with air (60 psi maximum) making sure the board remains in its original position while the sleeve compresses around the board. Do not place your fingers or other objects in the sleeve other than the mounting board. Hold sleeve in compressed position for 15 seconds, release pressure and repeat pressurization. Release air pressure and remove the mounting board. Repressurize the valve and check that the compressed sleeve is closed with the long slit inline with the supply air port.

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