

Mininert™ Precision Sampling Vial Valves

(cat.# 24900, 24901, 24902, 24903, 24904, 24905)

Mininert™ valves are “on/off” valves that are very convenient for repetitive sampling and will limit sample exposure to the septum.

Installation Instructions for Crimp-Top Vials

1. Observe the knurled ring on the body of the valve. This ring can be moved to adjust the outward squeeze on the internal o-rings. (These are the dark gray lines that are visible under the Teflon® membrane on the lower side of the valve body.)
2. After making sure the ring is fairly loose, insert the valve body into the neck of the bottle until it stops against the ring.
3. Tighten the ring until the valve fits snugly in the bottle neck (1½ to 2 turns should be sufficient, depending on the actual size of the particular bottle being used). Do not overtighten. You should be able to observe the o-rings swelling, forcing the Teflon® against the inside of the bottle neck. Do not worry if you can still rotate the valve in the bottle neck.
Note: Try to keep the bottle neck dry. If the bottle is full of liquid, we recommend that, before installation, you open the valve and insert a needle through the septum to prevent compression of the headspace, which can cause installation difficulty.

Removal:

1. Unscrew the adjusting ring until it is obviously loose.
2. Pull outward on the valve, twisting it slightly as you pull.

Installation Instructions for Screw-Cap Vials

Simply screw the valve onto the neck of the bottle. Tighten the cap until it feels securely sealed, but avoid excessive tightening as this can crack the plastic cap or the glass bottle neck. A slight tilt of the valve is normal and does not adversely affect the seal.

We recommend that you adhere a piece of plastic electrical tape around the valve and bottle at the point where they meet, to prevent accidental loosening or removal of the valve.

Operating Instructions for both Crimp-Top and Screw Top Mininert™ Valves:

To Open the Valve:

Push the green button, sliding the stem inward as far as it will go, until the green button touches the valve body. This aligns the ports and permits insertion of a needle for sampling. If the backup septum is in good condition, no sample loss or exposure will occur when the valve is in the open position.

To Close the Valve:

Push the red button, sliding the stem inward until the red button touches the valve body. DO NOT attempt to close the valve until AFTER the needle has been removed.

To Replace the Backup Septum:

(Valve in closed position)

Push the used or worn septum out of the valve with a smooth, rounded-end metal rod. Place a new septum into the valve, then work it in slowly with a rod or against a flat surface. Do not use excessive force, as this only swells the septum and makes insertion very difficult. Light and frequent applications of force seem to work best.

Important Note:

Pressurization of glass vessels can be very dangerous because the safe pressure limits and the bursting pressures may not be uniform. Persons using glass vessels as pressurized containers, with or without Mininert™ valves, do so at their own risk.

Call Technical Service at 800-356-1688 or 814-353-1300, ext. 4 (or your local Restek representative) if you have any questions about this product or any other Restek product.



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