

- Using a plastic Luer Lock Syringe, fill to the volume you wish to filter
- Mount the filter onto the end of the syringe and turn it half a turn to attach it firmly



- Verify that the syringe's plunger is located directly and accurately under the Dandy-Vice piston
- Verify that the syringe catchers "sit" in the designated dents in the Dandy-Vice
- Verify that the receptacle is located accurately under the filter to avoid losing the sample
- Press the handle of the Dandy-Vice downwards to activate the plunger and begin the filtering process

**THE SYRINGE CAN BE FILLED IN TWO WAYS:**

- Using a pipette or any other receptacle, make sure that the filter is attached to the spring.
- Using the syringe to attract the sample, and then connect the filter.



- Lift the handle of the Dandy-Vice upwards in the open position. Connect the syringe, with the filter attached, to the Dandy-Vice by pushing it into the designated position on the Dandy-Vice. Ensure the top of the syringe barrel is caught by the sprung catchers



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**INSTRUCTIONS FOR USING THE DANDY-VICE**

## GENERAL

The Dandy-Vice is a tool which assists in the process of routine filtration in the laboratory.

The concept of the Dandy-Vice is aimed at reducing operator pain felt in the hand when working with samples having high concentrations of solids, viscose samples or samples with high molecular weight.



Figure 1: The "dandyVice"

## THE STRUCTURE / COMPONENTS OF THE DANDY-VICE

### THE HANDLE

The long and comfortable handle is strong and enables the application of substantial power, using a downwards pressing movement, to operate the mechanism.

The length of the handle enables it to be held with the whole hand and not with just one finger, as is done when using a syringe, where only the thumb takes part in applying the power



Figure 2: The Handle

## THE PISTON

The Piston provides the downwards movement and is used as the "Press" for the syringe's plunger, the filter or the test tube



Figure 3: The Piston

## THE CATCHERS

The catchers are spring-loaded which enables them to move to the sides, thus enabling the syringe, filter or test tube of various diameters to be held between them.

The slanted front of the catchers makes it easy to push the syringe, filter or test tube between them locating them centrally on the Dandy-Vice..



## SAFETY INSTRUCTIONS

- 1 Using the Dandy-Vice enables you to carry out the filtration process away from your body
- 2 Holding the Dandy-Vice in the hand with the syringe and filter in position, prevents the syringe from slipping due to the ease of use compared to doing the same operation with the thumb.
- 3 If you are filtering hazardous materials, strictly adhere to the instruction of your laboratory in respect of wearing Personal Protective Equipment (PPE)
- 4 Do not apply power to the Dandy-Vice handle beyond the bending ability of one hand
- 5 Do not use additional auxiliary tools to operate the Dandy-Vice handle.
- 6 Strictly use a filter that is suitable for the type of sample and solvent being used. Greyhound Q-Range Syringe Filters are available for any application required
- 7 When filtering hazardous materials, adhere to the safety instructions that are relevant to those materials



## AIDS ATTACHED TO THE FILTRATION PROCESS

1. 1mL to 20mL syringes. The syringes should have Luer Lock connections.
2. Greyhound recommends the Q-Range of Syringe Filters
3. Receptacles for liquids, vials, test tube or a chemical glass, etc.

## WORK MODES

The Dandy-Vice can be operated in one of the following three modes:

1. Full manual mode, without using a stand



2. Using the Dandy-Vice in the Wall Holder mounted on a wall.



## USING THE DANDY-VICE

- 1, Prepare your sample in a chemical glass or other suitable receptacle.

