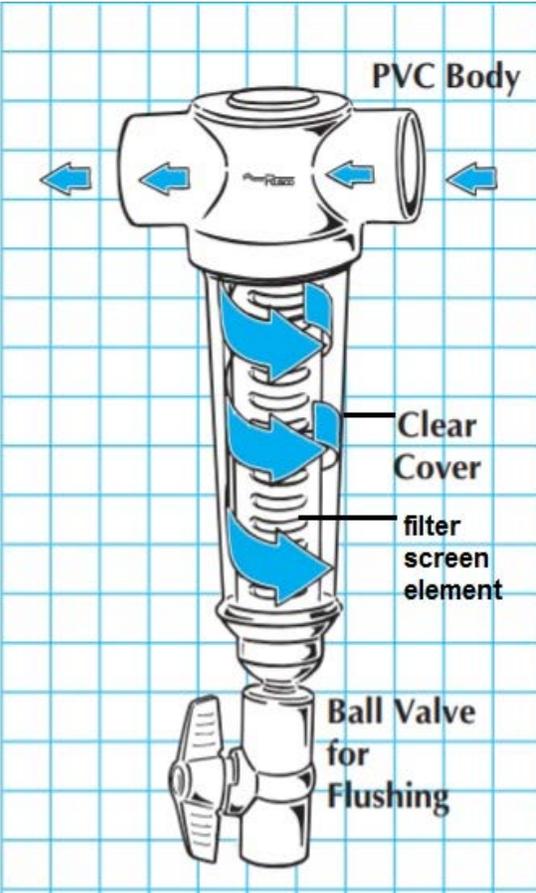


Selecting and Sizing Rusco Filters *These filters do not require the use of tools for installation, tightening, and cleaning - As a cautionary note: the use of tools will void the warranty*



1. WHAT SIZE PVC BODY?

For proper selection of a Rusco Filter we first choose size of the PVC body. Choose the PVC pipe female inlet/outlet located at the top of the total complete filter. The great thing about this complete filter is that PVC is easily adaptable and any Rusco filter size available can be used by adapting the PVC pipe up or down in size to accommodate both water lines and the inlet/outlet of the Rusco PVC Body. This is important to note, because even though bigger is not always better if it adversely affects the systems GPM, the actual physical dimensions of the filter Clear Cover and Filter screen element go up in capacity by choosing a larger PVC body. This could mean less cleanings needed with the larger size complete filter because of more space for debris build up. Varying filter screen elements and types are interchangeable within the same PVC body size.

Physical Dimensions with ball Flush Valve			
PVC Body Size	1"	1 1/2"	2"
Top to bottom Length	11 3/8"	15 3/8"	17 7/8"
Total PVC body Width	5"	5 1/4"	5 1/2"

2. COMPLETE SPIN DOWN OR COMPLETE SEDIMENT TRAPPER?

Sediment Trappers are typically used in applications with a very large amount of material – or applications where larger materials need to be filtered out. Also used in applications where more than 25GPM of water is needed. The Sediment Trapper features slightly smaller surface area on the filter – but leaves a very large area down at the bottom of the clear cover for sediment to develop and settle. The sediment is naturally pushed to the bottom of the filter where it can be purged through the flush valve easily without clogging the filter screen at the top.

Spin Down Filters work very similarly to sediment trappers but have a filter screen that spans from the top of the filter body all the way down to the bottom of the clear housing. These are great to use in applications where a lower amount of sediment and debris is expected. While still being effective in protecting valves, sprinkler systems and to use as a pre-treatment to even the finest type of water filtration system. We at the **Solar Biz** have paralleled both types within the same water treatment system, using the sediment trapper to get the big stuff, transitioning to a spin down for the final stages of water pre-treatment. After which point we then run into our water treatment system that makes water potable and drinkable without any particulate to clog it up. That is not always necessary. Each application will depend on the amount and size of filtered out material.

3. CHOOSE YOUR MESH SIZE AND TYPE FILTER SCREEN ELEMENT

This filtration system was built to last, without the need to replace filter screen elements all the time. Simply clean by using the provided flush valve on the bottom of the complete filter using your water systems own water pressure. It uses a centrifuge spin down type sediment separation. Or, you can unscrew the clear filter housing, gently remove your filter screen element, and gently wash it in clean **cold** water. Be careful not to poke a hole in the polyester unit! Both types of complete filters (spin down or sediment trapper) include either a stainless-steel filter screen element, or a polyester filter screen element. Both

types have a very long design life in our experience. The stainless-steel filter screen elements will last indefinitely. We have found that stainless is also appropriate in applications where you may experience iron in the water – as iron in the water will stain the polyester unit. While the poly will still work as well as the stainless, it becomes a little unsightly. The polyester filter screen elements are available in finer (smaller) mesh sizes, so will filter out much smaller water particulates. **Stainless are only available with mesh sizes as fine/small as 200.** Mesh size and Micron size are terms that can be used interchangeably. However, when purchasing the Rusco Filter systems, the filter screen elements are purchased based on MESH size. Look at the **Mesh to Micron** chart as well as our example of **Uses and Selecting Mesh Size**, to make sure you are getting what you think you need. We recommend purchasing the minimum mesh size for the particulates in a specific water filtration application. It is difficult to gauge the exact size mesh/micron needed even if you are an expert. So, if one mesh size proves to be a little too big or small, the filter screen elements are economically priced, and a smaller or larger mesh filter screen element can then be purchased and used in the same filter body and cover. ****make sure you know what size PVC body you have*** – which is usually stamped on the unit, or you can use the measurements above to determine what you have purchased in the past.

Uses and Selecting Mesh Size

WATER PARTICULATES	SUGGESTED WATER SYSTEMS AND USES	Example Mesh Sizes
Larger sand grit and debris, shale, shell	General Use, normal sprinkler head screens	30
Course Sand, Pipe shale	Drip irrigation systems, faucet aerators, sand sensitive valves	60
Fine Sand and Grit from New Wells	Drip Irrigation systems, faucet aerators, sand sensitive valves	100-140
	Fogger Nozzles	140
Very Fine Sand & Grit	Pre-treatment	200-500
Extremely fine debris	Pre-treatment for ultra-water systems, reverse osmosis, and the like	1000
Algae	Grows in presence of indirect or direct light under clear filter cover.	Use Sun Shield

Mesh to Micron – Filter Screen Size Equivalents – Polyester

Mesh	Microns	Opening
1000	15	.0006"
30	533	.021"
40	381	.015"
60	254	.010"
100	152	.006"
140	104	.004"
250	61	.0024"
500	30	.0012"