



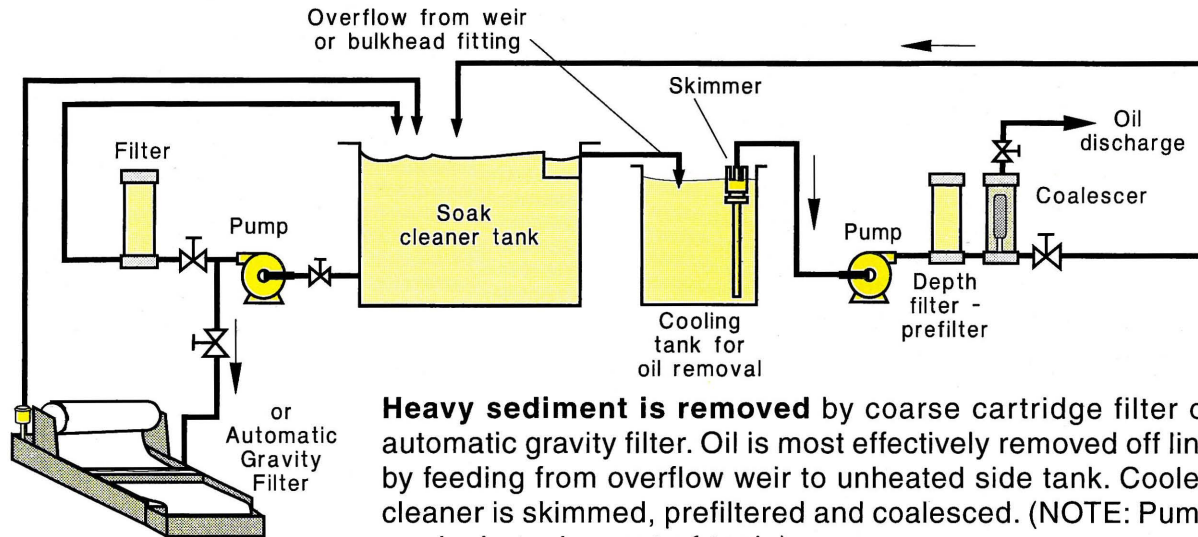
SERFILCO®

FIVE EASY STEPS TO QUALITY ANODIZING

TECHNICAL
BULLETIN
TF-142C
FEB 2005

*Pretreatment cleanliness assures good finishes on your parts.
Keep them clean and oil-free easily and economically
with SERFILCO engineered filtration systems.*

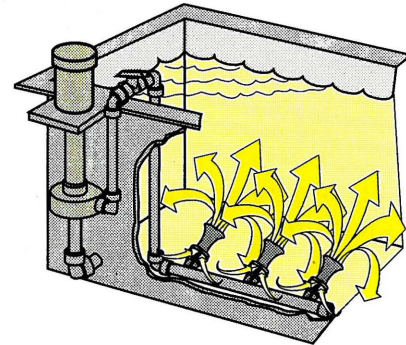
1 Filter your cleaners and remove oils.



Heavy sediment is removed by coarse cartridge filter or automatic gravity filter. Oil is most effectively removed off line by feeding from overflow weir to unheated side tank. Cooled cleaner is skimmed, prefiltered and coalesced. (NOTE: Pump can be in-tank or out-of-tank.)

2 Ser-Ductor® Systems on cleaners and rinses after cleaning, etch, desmut and anodizing.

Agitation of the various solutions enhances the ability of each tank's filter system to reduce or remove etch and desmut contaminants so they can't be dragged into the anodizing tank where they can cause rejects. Anodizing solution dragged into dye or seal will change pH, causing staining, wrong dye color and other quality problems.

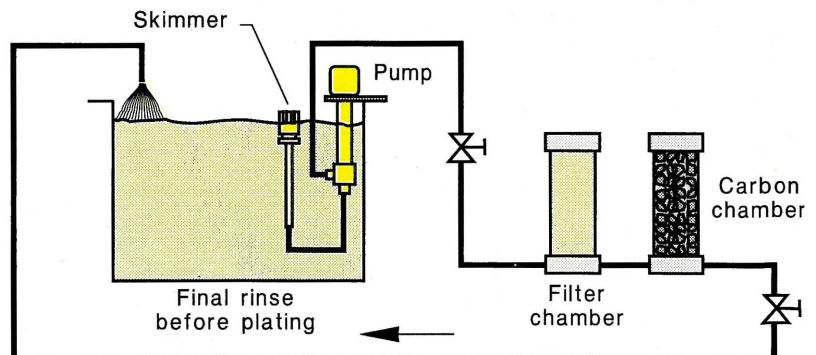


3 Filter the last rinse prior to anodizing.

The final rinse before anodizing, whether after desmut or etch, is your last chance to remove oil and particles before they reach the anodizing tank.

(NOTE: Pump can be in-tank or out-of-tank.)

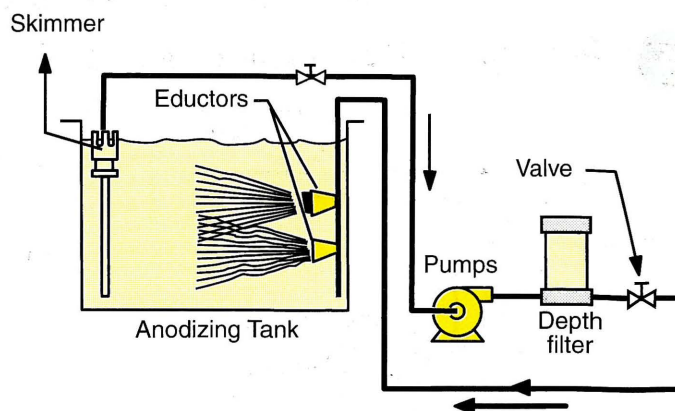
Use conductivity control and valve to assure water quality.



4 Filter and agitate anodizing solutions

- A. Sulfuric (hardcoat)
- B. Chromic Acid
- C. Others

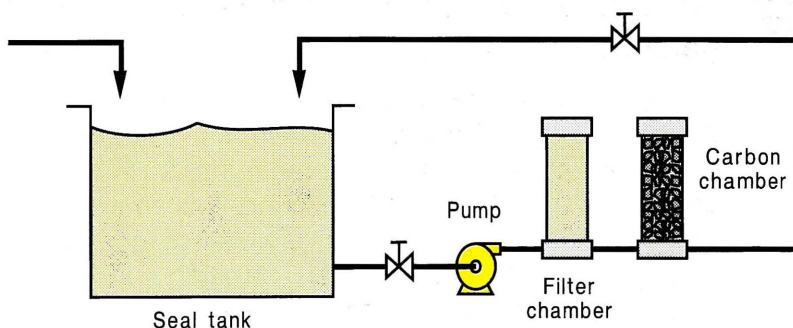
Pick up airborne dust and particulates carried into solution on parts. Prevent heating/cooling stratification throughout the tank for best anodizing coverage. Allows fresh anodizing solution to be deposited inside long tubular parts and blind spots. This can be accomplished by using a SERFILCO hi-flow filtration system coupled to a vigorous air less Ser-Ductor agitation system. Skimmers for removal of any floating debris can be incorporated.



5 Filter seal tank with continuous carbon treatment.

The hot water or nickel acetate seals can be extended through the use of filtration to remove a powder-like residue, thus eliminating hand wiping.

The seal life may be further extended through the use of granular carbon which will eliminate organic dye build-up which cause premature dumping of the seal solution.

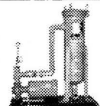


SERFILCO®

2900 MacArthur Blvd 847-509-2900
Northbrook, IL 60074 800-323-5431
www.serfilco.com FAX: 847-559-1995
Email: sales@serfilco.com

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Metal filter systems



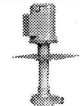
Oil skimmers



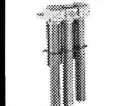
'Smart' drum pumps



Horizontal pumps



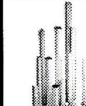
Vertical pumps



Heaters and temperature controllers



Conductivity controllers



Filter media