

"Unparalleled Delivery Times on Custom and Standard Filtration Products"

FLUID CONDUCTORS: PART 3

Flexible Hose

This is part 3 of 3 about fluid conductors. Parts 1 and 2 were covered in the two previous newsletters. Hydraulic hoses are not a minor component in the hydraulic system. Installing the wrong hose for the application could cause serious damage. Make sure the correct type and grade of hose is selected for the application. Hydraulic hose is...

- Measured on the inside diameter.
- Is a nominal measurement.
- The "lay line" on the hose will identify the specifications and help the installer prevent twists or kinks.
- Hoses actually get shorter when pressurized, so always allow for this during installation.
- Hoses expand under pressure. A lot of hoses often make hydraulic systems seem like the oil is "compressible."
- Sizes indicate the number of 16ths of an inch, such as #8 hose is 8/16" or 1/2" ID.
- Hose is made up of three parts; liner, reinforcing layers, and cover.
- The liner and cover must be compatible with the type of fluid being used.
- High pressure hoses may not be used as a suction line. Suction line must have the liner glued to the reinforcing layers.
- Corners are made by bending (obviously) or with angled fittings. REMEMBER: Anytime fluid travels around a corner, it increases the pressure drop.
- Hose and fittings include any type preferred. These include tapered pipe, flare, o-ring, but no compression ferrule type.
- Some hose-end fittings are reusable. These will typically have a hexagon shaped sleeve so it can be turned with a wrench.
- Using the wrong fitting on the wrong hose will cause leaks and liability. Always get advice from the hose and fitting manufacturer in order to do it right!



CLEAN FLUID TIP

Portable Oil Transfer Systems Best Practice

When using off-line filtration, the fluid will need to pass through the filters on the filter cart approximately seven times to achieve single pass filtration. Use the following formula to calculate the amount of time needed to achieve single pass filtration.

$$(\text{Reservoir size} \times 7) / \text{Flow rate} = \text{Time}^*$$

For example, if you have a 50 gallon reservoir, the flow rate of your pump is 10 gpm, it will take approximately 35* minutes to achieve single pass filtration.

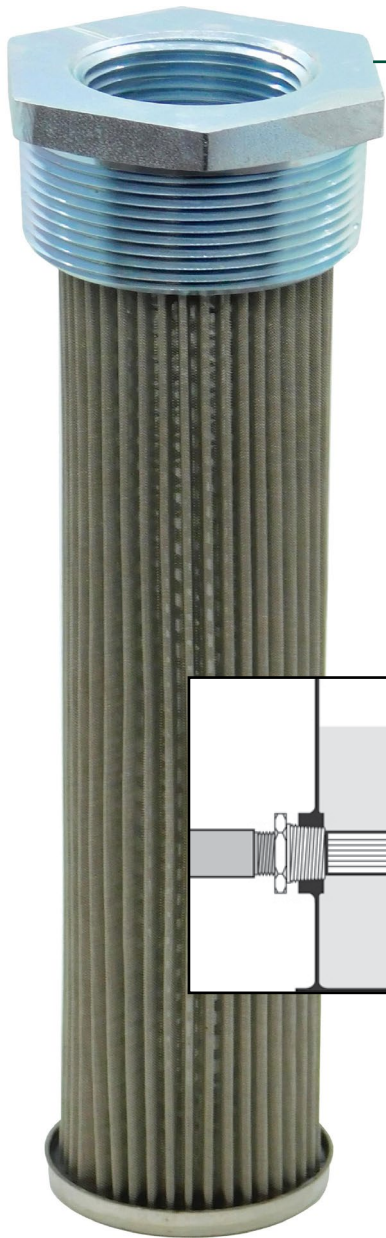
*Times will vary depending on initial cleanliness of oil, system ingress, choice of media grades and other variables. However, for a reference guide, this formula can be used successfully.



FLUID CONDUCTORS: PIPES, TUBES, AND HOSES

The Importance of a Total Quality Management System

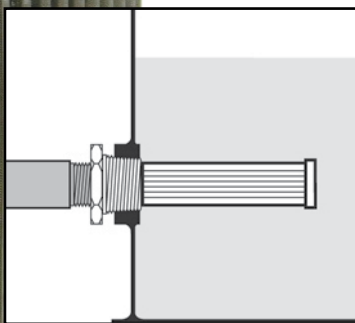
Accountability is important in any organization. Ohio Fabricators always strives to add value to our company and thus add value to your company. We do our best to master the various dimensions of quality, while understanding teamwork, increasing compliance, and reducing variation. Prevention is more important than appraisal. Quality standards contribute to our company's success. That is why Ohio Fabricators is ISO 9001:2015 Certified. [To view our Certificate, please click here.](#)



Tank Mounted Strainers

Does it make sense for your suction line straining?

We all know the importance of straining the hydraulic fluid before it reaches the pump. We realize the pump is the most important component in the system because if it fails, the entire system fails. Sometimes it is not convenient to remove the suction strainer that is located inside a reservoir. The option then would be to install a tank mounted strainer from the outside of the reservoir.



The tank mounted strainer is inserted in a hole from outside the reservoir at the bottom. That way, when the reservoir has been drained, merely unthread the strainer and thread a new one in without going inside the reservoir. Simply done. OFCO manufactures tank mounted strainers that will handle 3 gpm to as large as one that will handle 100 gpm. They are also available with 30, 60, 100, or 200 mesh with various pipe sizes, whether it is NPT or SAE straight thread. You can explore OFCO tank mounts at the links below.

[Tank Mounted Strainers - NPT](#)

[Tank Mounted Strainers - SAE Straight Thread](#)



A Few Words About Customer Service

This logo is a sign of quality products made in the USA. We offer them at a fair and reasonable price. We take a futurist position realizing that "service" remains a key component for success as long as humans are around. What really is service, you ask? This is how OFCO responds to that question. "Service" is conduct contributing to the advantage of another. We also realize that regardless of the methods employed, customers will expect incredibly responsive service every time, especially in today's business climate. Those companies who can provide it more consistently are those that will survive. We have lived by this creed for the last 78 years.

CUSTOMER SERVICE
IS NOT A DEPARTMENT.
It **IS AN ATTITUDE.**

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