OHIO FABRICATORS COMPANY

news YOU CAN use

ISSUE 19

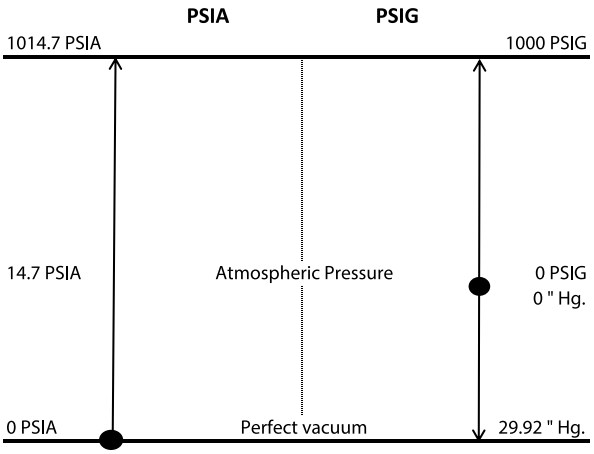
"Unparalleled Delivery Times on Custom and Standard Filtration Products"

Custom Made Strainers

We talk a lot about custom made strainers. We advertise extensively, reminding readers of areas we excel in. It is mentioned in our broadcast e-mails, newsletters, and LinkedIn posts, quite often. We mention it because OFCO's customers have been asking, "we need something that no one has and we can't find a source to make it." We have been making custom strainers since 1945 and we can't emphasize enough how good we are at it. Square pegs hate round holes but we have found a way to make them fit. Let OFCO help you. It's that simple!

Pressure and Vacuum Comparison

This is an area where confusion occurs, and it causes a lot of head scratching. In order to help better understand the comparison between pressure and vacuum, view the chart below with the notes for the big picture. It should help.



Positive Pressure

Partial Vacuum

NOTES

1. Observe that any pressure below atmospheric pressure is considered a partial vacuum.
2. Any pressure above atmospheric pressure is positive pressure.
3. The PSIA scale includes both positive pressure and vacuum.
4. The PSIG scale includes positive pressures.
5. Note the inches of mercury (" Hg.) scale begins at zero (atmospheric pressure) and increases as the amount of pressure decreases.

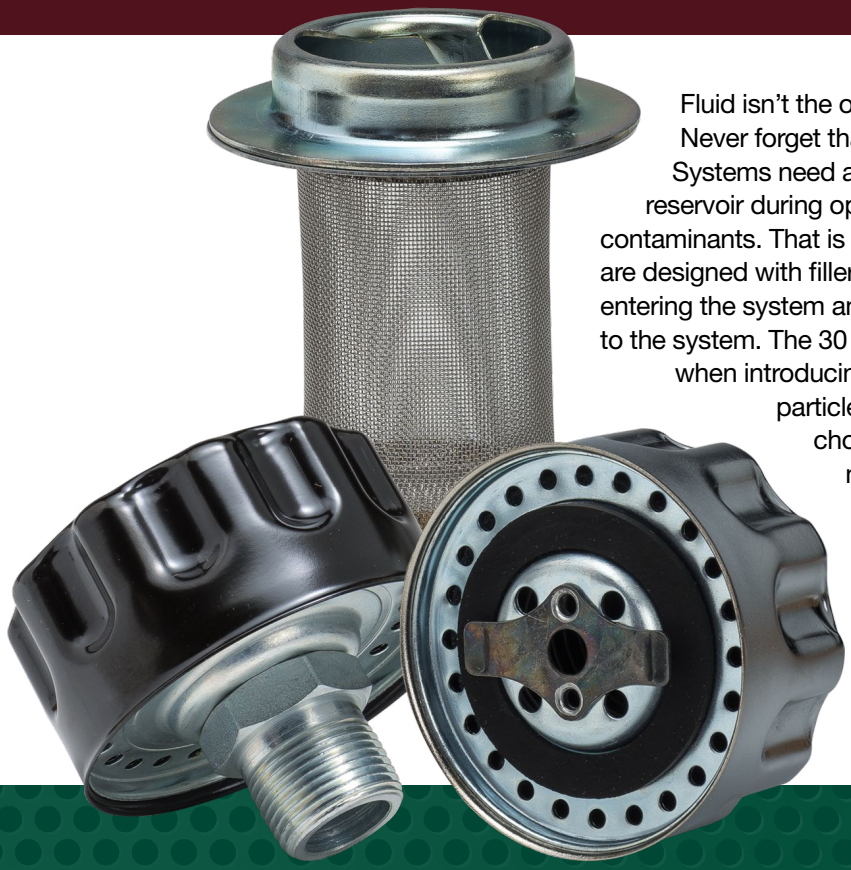
ASK THE ANSWER MAN

A couple of weeks ago we were asked by a caller for a a simple, quick answer to a question that has been on his mind. He didn't want the long dragged out, technical answer that would be confusing. So we obliged him the best way we could.

His question was, "What is the difference between mineral based and synthetic oil?"

We answered him saying mineral-based hydraulic oils are derived from crude oil fractions, whereas synthetic oils are manufactured using chemically produced base fluids. Synthetic fluids can be formulated to impart superior physical properties as compared to mineral oils, such as high-temperature performance, oxidation stability, and biodegradability.

Reservoir Filler-Breathers



Fluid isn't the only carrier of contamination in a hydraulic system. Never forget that air is a very common carrier of contamination. Systems need air to accommodate the rising and falling of fluid in the reservoir during operation. This is a common area for the introduction of contaminants. That is why systems need to be able to breathe. Most systems are designed with filler-breathers, components that do double duty: filter air entering the system and serves as a filler port when fluid needs to be added to the system. The 30 mesh filler basket helps keep debris out of the reservoir when introducing fluid and the 10 or 40 micron filter in the cap keeps particle contamination out. There are also many options to choose from to add if required; hi-neck, locking lugs, all nylon units, dipsticks, pressurized, threaded style.

To view more, click on the links below and go directly to our website product page.

Bayonet Style Filler-Breathers
Threaded Style Filler-Breathers

IT'S QUIZ TIME!

Hydraulic Principle Questions

1. **Area, force, and pressure** are the basis of all hydraulic system. True ____ False ____
2. **One gallon** equals 321 cu. in. True ____ False ____
3. **The weight of the atmosphere** at sea level is _____ psi.
4. **The pressure of the fluid** in a vessel is the same at a level regardless of the shape of the vessel. True ____ False ____
5. **Flow rate** is the volume of the fluid flow. True ____ False ____

See upside down answers to questions below

It's Quiz Time Answers
Answers: 1. True; 2. False; 3. 147; 4. True; 5. True

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