

# SANDPIPER AIR FILTER / REGULATOR

Reliable Point-of-Use Filter Regulators Specifically Developed for Air Operated Double Diaphragm Pumps



SANDPIPER air filter / regulator provides **Pump Protection** by removing solid and liquid contaminants from air lines for **Reduced Maintenance** providing clean regulated air protecting the pump's main air valve by efficiently removing contaminants.



Simple air pressure adjust & lock provides **Precision Pump Control** to vary the pump's flow rate & operate the pump at the optimal speed. This allows us to **Extend Pump Life**, reduce stress on wear components by proportioning the air pressure to required amount.



**Lower Operating Costs**  
Lower energy costs through reduced air consumption & less demand on compressors.

Don't let dirty, wet & contaminated compressed air limit the performance of your AODD Pumps!

**We recommend the use of a filter/regulator with every pump.**

## Features

- Adjust & lock to deliver a constant air pressure
- Polyurethane bowls offer improved chemical resistance
- Includes a durable liquid filled pressure gauge to dampen the effects of pulsation & vibration common in pump applications
- Integral mounting slots eliminate the need for mounting brackets
- Automatic drain condensate as required



# Technical Specifications & Ordering Information

| Part Number | Port Size | Pump Model                                                                                        | Description                             | Max Flow (SCFM) | Max Inlet Pressure | Regulating Pressure Range | Replacement Filter Element | Lubricator Part Number |
|-------------|-----------|---------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------|--------------------|---------------------------|----------------------------|------------------------|
| 020.103.000 | ¼" NPT    | E02, PB1/4, WR10, S05, S07, S10                                                                   | Filter / Regulator w/ gauge (20 micron) | 35              | 150 psi (10.2 bar) | 0-125 psi (0-8.6 bar)     | 020.049.004                | 020.113.000            |
| 020.104.000 | ½" NPT    | SE1/2, HDF1, HDF25, N25, S1F, SA1, SA25, SB1, SB25, ST1, ST25, T1F, U1F, DSB1, SSB1, EH2-M, SH2-M | Filter / Regulator w/ gauge (40 micron) | 80              | 150 psi (10.2 bar) | 0-125 psi (0-8.6 bar)     | 020.050.004                | 020.114.000            |
| 020.105.000 | ¾" NPT    | HDB1 ½, S15, ST1 ½, ST40, T15, HDB2, HDF2, N50, S20, SSB2, T20, TSA2                              | Filter / Regulator w/ gauge (40 micron) | 150             | 150 psi (10.2 bar) | 0-125 psi (0-8.6 bar)     | 020.051.004                | 020.115.000            |
| 020.106.000 | 1" NPT    | HDB3, HDB4, HDF3-A, HDF4-A, HDF3-M, HDF4-M, S30M, S30NM, T30                                      | Filter / Regulator w/ gauge (40 micron) | 250             | 175 psi (12.1 bar) | 0-125 psi (0-8.6 bar)     | 020.052.004                | 020.116.000            |

Temperature Ratings 40°F to 125°F (4.4°C to 52°C)

## FAQS

### Q-Do I also need a lubricator?

A- Our pumps are designed to operate WITHOUT lubrication and this is the preferred mode of operation. In applications with poor quality air supplies or where nitrogen is being utilized to operate the pump, lubrication of the compressed air supply is required. For these situations, we offer a complete line of Lubricators that easily connect to our Filter / Regulators.

### Q-When was the last time you replaced the filter element?

A- As a general guideline, we recommend that you replace your filter element every 6 months. A broken or missing filter element will allow dirt to enter the pump's main air valve. A dirty or plugged filter element will result in excessive pressure drop.

### Q-What is the micron rating of the existing Filter?

A- Air filter sizing is very important. If your filter element is too small, the element becomes choked resulting in excessive pressure drop. If your filter element is too large, the air flow is too slow and heavy contaminants will not be fully removed. Most of the commonly available Filters utilize a 5 micron filter element. Our pumps work best with a 20 or 40 micron filter element depending on the model.

### Q-What type of drain mechanism does the existing Filter have?

A- Most commonly available Filters have a manual drain. If you forget to drain the bowl, the moisture that has been collected from the air stream will fill the bowl until the liquid contaminants begin to pass through the Filter and downstream to the pump. Our Filter / Regulators feature an automatic drain that ensures the moisture is removed from the bowl with no maintenance.



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