### **SennREG Tutorial**

**AGRICULTURAL IRRIGATION** 

senninger.com





# SennREG: Pressure Regulator App

### **Know Your Flow**

- SennREG is a handy tool to bring into the field when checking your pressure regulator's performance.
- With just a few clicks, you'll know exactly what to expect out of your pressure regulator – from what your output pressure should be to when you should start thinking about replacements.

#### SennREG

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Efficient irrigation systems use pressure regulators to limit excessive and varying inlet pressures to a constant outlet pressure.

The SennREG calculator will show you the relationship your pressure has on your flow in both US and Metric units. SennREG is compatible with mobile devices.











# SennREG: Pressure Regulator App

### Instructions

 To begin, scroll down and click **DONE**

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### SennREG: Getting Started

- SennREG opens the program with Imperial units (PSI and GPM) selected by default.
- To switch to metric units of measurement, click on the settings icon, select UNITS.

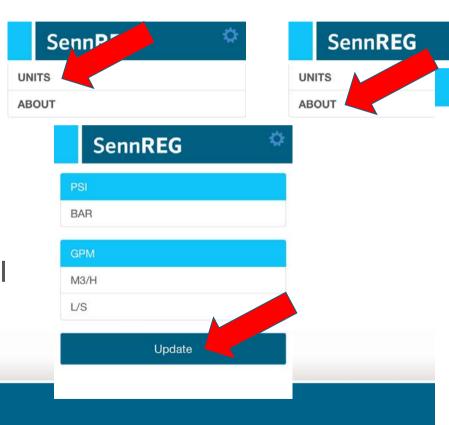




### SennREG: Units & About

### Instructions

- Choose UNITS.
  Select PSI or BAR.
  Select GPM, M3/H,
  or L/S. Then, click
  UPDATE
- Choose ABOUT for more information about the app. Scroll down to click DONE when you have finished reading.



#### SennReg

SennREG

Efficient irrigation systems use pressure regulators to limit excessive and varying inlet pressures to a constant outlet pressure.

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Products manufactured by Senninger Irrigation Inc. are warranted for two years from date of original shipment to be free of any defects in material or workmanship.

#### Limitation of Liability

Except to the extent not permitted by applicable law in your jurisdiction, in no event will Senninger Irrigation be liable to you for any damages, claims or costs whatsoever, including without limitation any consequential,

Done

aggregate liability under or regarding this agreement will be limited to the amount paid for

#### **AGRICULTURAL IRRIGATION**

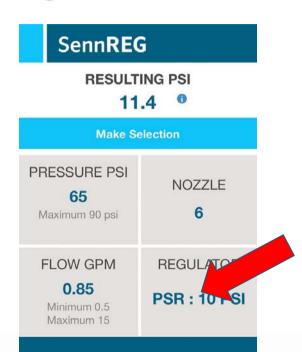
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# SennREG: Selecting a Model

#### Instructions

 Click on the text below REGULATOR to select your Senninger pressure regulator model and desired output pressure.

Note: Be sure you have at least 5 psi (0.34 bar) above the regulated pressure available for the regulator pressure selected.

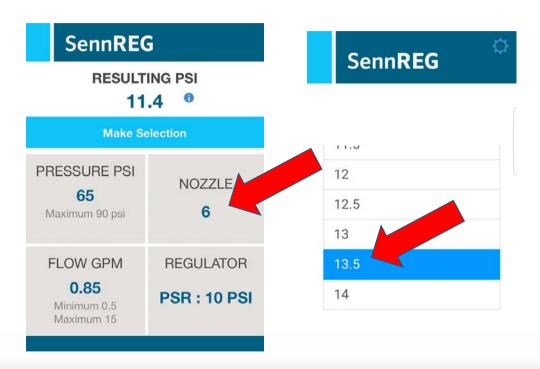




### SennREG: Enter Nozzle

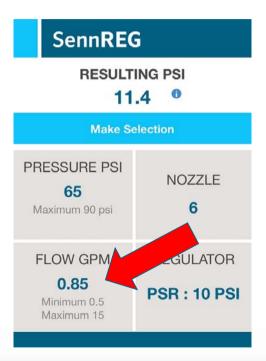
#### Instructions

 Click on the text below NOZZLE and select the UP3 nozzle size (number) currently installed on your sprinkler.



### SennREG: Enter Flow

- If your pressure regulator is installed just below a gooseneck, you need to manually enter your output flow (GPM, M3/H, or L/S) according to what is shown on your sprinkler package printout.
- Click on the text below FLOW and enter your expected flow numerically.

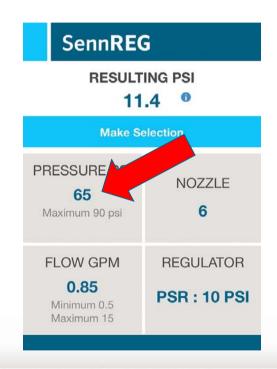




### SennREG: Adjust System Pressure

#### Instructions

- Note that the PRESSURE defaults to 65 psi (4.48 bar).
- Adjust this number to reflect your overall system pressure.





0



### SennREG: Resulting Pressure

- After inputting all your information, your RESULTING PRESSURE will be shown above numerically.
- Click on the info icon to see if this is in an acceptable range.





### SennREG: Analyzing Your Pressure

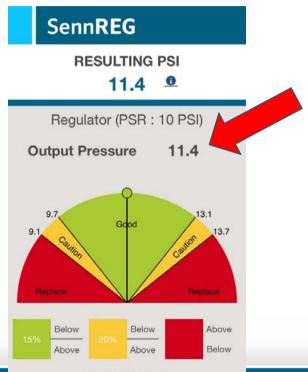
- The resulting pressure will be shown as OUTPUT PRESSURE above a gauge.
- At this point, you should test your pressure regulator to see if its current output pressure closely matches the range the app is displaying.



### SennREG: Analyzing Your Pressure

### Instructions

- Once you have tested your pressure regulator with an accurate gauge, replace the OUTPUT PRESSURE with your actual output pressure.
- Review the results in the graph.



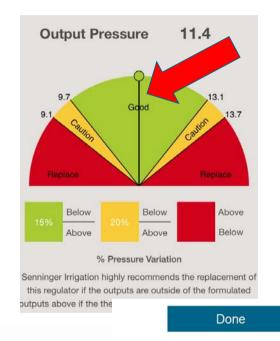
% Pressure Variation

Senninger Irrigation highly recommends the replacement of this regulator if the outputs are outside of the formulated outputs above if the the exact nozzle/flow inputs and correct



### SennREG: Analyzing Your Pressure

- If the line falls within the
  - green area, the pressure regulator operates as intended
  - yellow area, use caution and monitor system performance
  - red area, it is time to replace your regulator
- Scroll down to click Done





# SennREG: Pressure Regulator App

If the output pressure is outside of the manufacturer's specifications for the sprinklers, there will be problems with:

- Uniformity
- Radius of throw
- Application rate consistency
- Crop yield

