# RJG Flowmeter Recommendation Form:

How to Determine Max/Min Water Flow Rate
by Monitoring an Individual Circuit

The purpose of this document is to guide you through step-by-step how to properly get a max/min water flow rate when you don't have a flowmeter on hand. This will ensure you get the best sizing of flowmeter for your specific application. Please follow the steps below, then complete the form on page 2.

**NOTE: Be sure to use safety measures when doing these tests.**

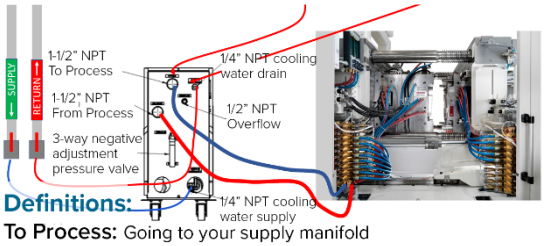
## Step 1:

Turn off power switch to Temperature Control Unit (TCU)

**Note:** Follow instructions in your equipment's user manual to find the power button.

## Step 2:

Turn off water valves on the "From Process" and "To Process"



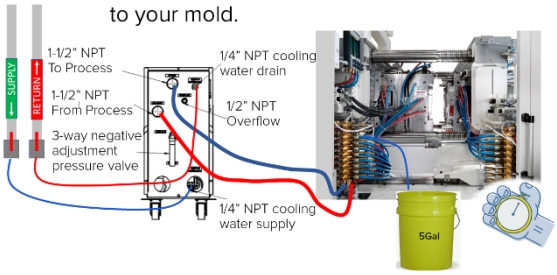

**Definitions:**

**To Process:** Going to your supply manifold

**From Process:** Return from your return manifold

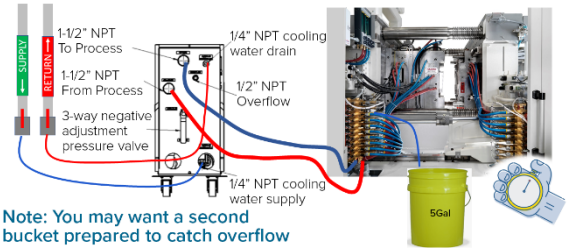
## Step 3:

**Warning: Practice safety procedures before this next step!** Disconnect "To Process" line to your mold.




## Step 4:

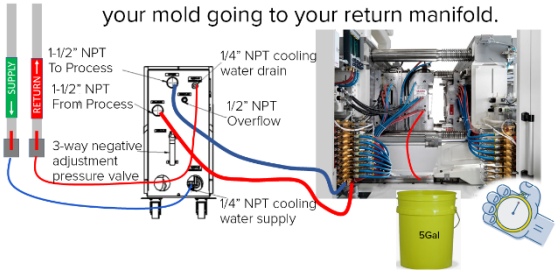
Open "To Process" valve and turn on power switch to TCU. Time how long it takes to fill the bucket.




Note: You may want a second bucket prepared to catch overflow

## Step 5:

**Warning: Practice safety procedures before this next step!** Repeat step with the hose on your mold going to your return manifold.




## Step 6:

Calculate Gallons per Minute (GPM)

**SUPPLY:** $\frac{\text{5 Gallon Bucket}}{\text{\_\_\_\_ Sec to fill bucket}}$ X 60 sec/min = ____ GPM's

**RETURN:** $\frac{\text{5 Gallon Bucket}}{\text{\_\_\_\_ Sec to fill bucket}}$ X 60 sec/min = ____ GPM's

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Please complete this form and email it to: support@rjginc.com. One of our customer support representatives will reach out to you with a recommendation. Thank you!

| **Company:** | **Name:** | **Date:** |
|---|---|---|
| **Machine:** | **Mold:** | |

| | |
|---|---|
| What is the size connection you are mounting the flow meter to? | |
| What type of threads is the connection (NPT or BSPP)?<br>***NPT**=National Pipe Thread **BSPP**=British Standard Parallel Pipe* | **NPT or BSPP** |
| What is the housing material you would prefer? Material is based on the connection size where flowmeter will be installed. | **=/< 1/2" Brass Nylon**<br>**>/= 3/4" SS Alum** |
| What is the minimum expected flow?<br>*(Follow the above instructions)* | |
| What is the maximum expected flow?<br>*(Follow the above instructions)* | |
| What is the maximum temperature you run your coolant at? | |
| What is the maximum line pressure expected? | |
| Will the flowmeter be more than 3 meters (9 feet) away from the din modules? | |
| Do you need a user interface (LED screen)? | |
| What is the intended use (strategy) for this flowmeter? | |