

# HOW TO READ A WET FLOW SHEET

| Wet Nitrous to Fuel Flow Sheet |         |   |            |              |             |          |          |          |                | NITROUS OUTLET |  | 305 S. 28th St. • Waco, TX • 76710<br>254.848.4300 • www.nitrousoutlet.com |  |
|--------------------------------|---------|---|------------|--------------|-------------|----------|----------|----------|----------------|----------------|--|--|--|
| Customer Name                  |         | A. Nitro Dave   |            |              |             |          |          |          |                |                |  |  |  |
| System Type                    |         | B. Stinger 3 Plate, Boomerang Bracket, 1/4 Hard Lines                           |            |              |             |          |          |          |                |                |  |  |  |
| Bottle Configuration           |         | C. Single 15lb with .508 ID Billet Valve  |            |              |             |          |          |          |                |                |  |  |  |
| N2O Pressure                   |         | D. 950 PSI  |            |              |             |          |          |          |                |                |  |  |  |
| Solenoids                      |         | E. Single .178 N2O & .310 Fuel  |            |              |             |          |          |          |                |                |  |  |  |
| Nozzles/ Dist.                 |         | F. Stinger 3 Plate  |            |              |             |          |          |          |                |                |  |  |  |
| Feed Line Size/Length          |         | G. 4FT 6AN, To Shut Off Valve And Filter Assembly, to 3FT 6AN Hose, to Solenoid |            |              |             |          |          |          |                |                |  |  |  |
| Flow Jet in Flow tool          |         | H. 0.073  |            |              |             |          |          |          |                |                |  |  |  |
| Stage                          | N2O Jet | PSI Drop  | lbs 5 Sec. | N2O lbs Hour | Horse Power | Fuel Jet | Fuel PPH | Fuel PSI | N2O/Fuel Ratio | S. Notes       |  |  |  |
| 1                              | 0.125   | 80  | 2.37       | 1706.4       | 474         | 0.088    | 178      | 5        | 9.58:1         |                |  |  |  |
| I.                             | J.      | K.  | L.         | M.           | N.          | O.       | P.       | Q.       | R.             |                |  |  |  |
| 1                              | 0.125   | 80  | 2.37       | 1706.4       | 474         | 0.088    | 210.6    | 7        | 8.1:1          | Start Here     |  |  |  |
| 1                              | 0.125   | 80  | 2.37       | 1706.4       | 474         | 0.088    | 227.7    | 8        | 7.49:1         |                |  |  |  |
| 1                              | 0.125   | 80  | 2.37       | 1706.4       | 474         | 0.088    | 241.5    | 9        | 7.07:1         |                |  |  |  |
| 1                              | 0.125   | 80  | 2.37       | 1706.4       | 474         | 0.088    | 255.6    | 10       | 6.68:1         |                |  |  |  |

## Customer Name and System Data

- A - Customer Name - This area has the customer's name.
- B - System Type - This area describes the nitrous system.
- C - Bottle Configuration - This area describes how many nitrous bottles, the bottle size, and the bottle valve used.
- D - N2O Pressure - This area describes the flowing nitrous pressure.
- E - Solenoids - This area describes what solenoids, how many solenoids and any modifications to the solenoids.
- F - Nozzles/Dist. - This area describes the discharge nozzles and distribution blocks the system has.
- G - Feed Line Size/Length - This area describes what size feed line, how long the feed line is and any items in the feed line path from the bottle to the solenoids.
- H - Flow Jet In Flow Tool - This area describes what size fuel jet is used to set the systems flowing fuel pressure.

## Nitrous and Horse Power Data

- I - Stage - This area list which system stages the data is for.
- J - N2O Jet - This area list which nitrous jet was flowed.
- K - PSI Drop - This area list how much nitrous pressure dropped during the flowed 5 second time period.
- L - Lbs. 5 Sec. - This area list how many pounds of nitrous flowed through the system in a 5 second time period.
- M - N2O lbs. Hour - This area list how many pounds of nitrous flowed through the system in an hour.
- N - Horse Power - This area lists the estimated horse power level that the nitrous jet will provide based off the amount of nitrous flowed through the system.

## Fuel Data

- O - Fuel Jet - This area list the fuel jet flowed.
- P - Fuel PPH - This area list how many pounds of fuel flowed through the system in an hour.
- Q - Fuel PSI - This area list the fuel pressure set point that the fuel PPH is received from.

## Final Tune Up Data

- R - N2O/Fuel Ratio - This area list the achieved Nitrous to Fuel ratio. (Lower number = Richer, Higher number = Leaner)
- S - Notes - This area lists the recommended starting point on the tune up and any tune up notes needed.

## How To Read A Flow Sheet For A Wet Nitrous System

- Step 1: Choose the stage you are changing. (Section I)
- Step 2: Choose the horse power level you desire. (Section N)
- Step 3: Use the nitrous jet suggested. (Section J)
- Step 4: Use the fuel jet suggested. (Section O)
- Step 5: Using the flow jet listed (Section H) in your flow tool, Set the flowing fuel pressure (Section Q), to the pressure with "Start Here" beside it, in the notes (Section S)
- Step 6: Referencing wideband and spark plug data, adjust the fuel pressure (Section Q), to richen or lean the tune up, by increasing or decreasing the Fuel PPH. (Section P)  
Nitrous to Fuel ratio's (Section R)  
(Lower number = Richer, Higher number = Leaner)

## Flow Data Facts:

1. PPH stands for Pounds Per Hour.
2. HP stands for horsepower.
3. PPH is used to calculate estimated horsepower numbers.
4. Nitrous Outlet uses a 3.6 divider. (PPH / 3.6 = HP)
5. Using flowed PPH numbers provides the most accurate data for calculating how many degrees of timing to remove.
6. Reviewing nitrous pressure drop can show inefficiencies in system components.
7. Suggested Nitrous to Fuel Ratio's vary depending on system type.  
Dry Plate and Direct Port = 12:1    Wet Plate = 8:1  
Wet Direct Port = 7:1

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