



## Iota Lean Metering Device 100.18K



### Overview

The Iota Lean Metering Device is an innovative product that allows users to achieve leaner dilution rates than traditional metering tips. Iota comes with multiple discs that can be inserted into the device in different configurations to tailor the dilution rate to the specific application. These discs are color coded to make the initial set up quick and easy with no tools required. The inlet and outlet barbs on Iota are clearly marked to ensure that the inlet strainer provides protection from any foreign debris that may be in the chemical line.

Iota has been strategically designed to offer:

- Configurable dilution rates with the included color-coded discs
- The ability to utilize stronger concentrations than what traditional metering tips can handle
- Protection from debris in the chemical storage tank or line
- Easy installation using barbed fittings

### Warnings

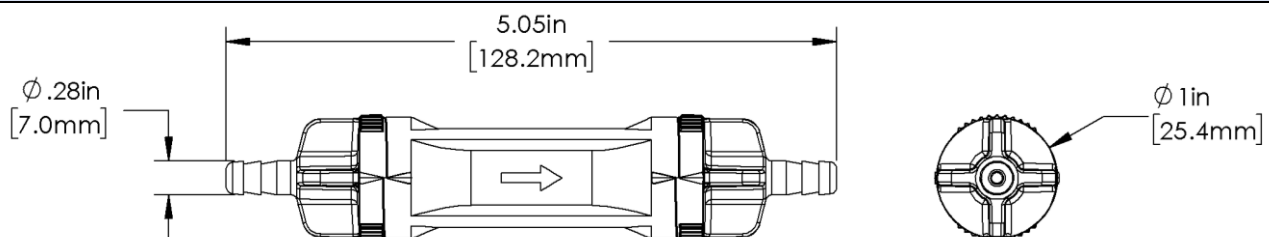


**WARNING: INSTALLATION OF DEMA PRODUCTS MUST MEET ALL APPLICABLE PLUMBING CODES AND REGULATIONS ESTABLISHED BY NATIONAL, CITY, COUNTY, PARISH, PROVINCIAL OR OTHER AGENCIES. IT IS POSSIBLE THAT PLUMBING CODES AND REGULATIONS REQUIRE THAT A CERTIFIED INSTALLATION CONTRACTOR OR ENGINEER PERFORM THE PLUMBING INSTALLATION.**



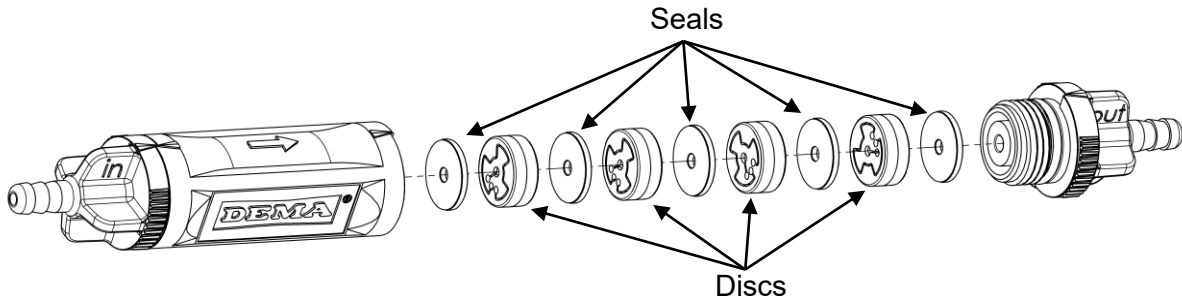
**READ ALL PRODUCT SAFETY DATA SHEETS (SDS) AND USE PERSONAL PROTECTIVE EQUIPMENT AS DIRECTED BEFORE INSTALLING OR DISPENSING ANY CHEMICAL FROM THIS DISPENSER.**

### Overall Size

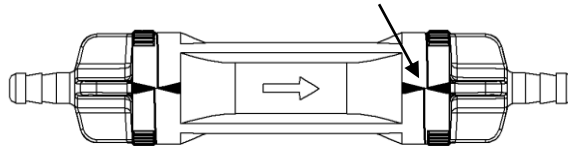


## Installation and Servicing

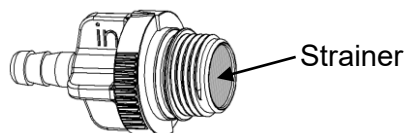
1. Using the dilution rates table on the next page, determine the correct configuration of colored discs that will achieve the desired dilution rate.
2. Unscrew the outlet fitting and insert the specified discs and seals into the unit as depicted below. Note the orientation listed on the dilution rates table, which calls for the white spacer discs to be installed closer to the inlet fitting.
  - a. Make sure there is a seal on both sides of every colored disc, as they help ensure a tight seal and proper dilution rates.



3. Once the specified discs and seals are inserted, reinstall the outlet fitting and tighten until the arrows on the body and fitting line up. Do not use tools to tighten the unit as this may result in damage or improper dilution rates.



4. The Iota should be located close to the injector for quick priming. Find your 1/4" chemical inlet tubing and make a straight cut through the tubing so that the Iota can be installed in-line using the barbed fittings.
  - a. Note the arrow molded onto the unit and ensure that it's correctly oriented with your chemical flow path.
  - b. Make sure the tubing is new and not brittle so that the Iota stays securely attached and does not allow any air to enter the line once installed.
5. With the unit now installed, test the system and determine if the dilution rate is correct for your application. Minor adjustments may be required as installation parameters vary from location to location.
6. Preventative maintenance is also recommended.
  - a. Before servicing the unit, place the chemical inlet tubing into a container of water and run the system to flush out any residual chemical from the Iota. Continue until only water flows through the unit. Always follow the chemical manufacturer's safety guidelines when handling chemicals.
  - b. To clean the mesh strainer screen, disconnect the tubing from the inlet fitting barb and unscrew the inlet fitting. Once removed, rinse the screen with water to flush out any debris before reinstalling the inlet fitting and reconnecting the tubing.



# Dilution Rates: Iota with a DEMA Rocket Injector at 200 PSI

| Nozzle size               | 0.029" |         |         |
|---------------------------|--------|---------|---------|
| Flow Rate @ 200 PSI (GPM) | 0.30   |         |         |
| Viscosity                 | 1cP    | 50 cP   | 120 cP  |
| 4R                        | 1:111  | 1:1,027 | 1:2,596 |
| 3R                        | 1:72   | 1:789   | 1:1,975 |
| 2R                        | 1:64   | 1:632   | 1:1,509 |
| 4Y                        | 1:60   | 1:599   | 1:1,411 |
| 3Y                        | 1:46   | 1:435   | 1:1,166 |
| 2Y                        | 1:33   | 1:331   | 1:936   |
| 4G                        | 1:36   | 1:340   | 1:948   |
| 3G                        | 1:31   | 1:271   | 1:811   |
| 2G                        | 1:23   | 1:197   | 1:603   |
| 4B                        | 1:20   | 1:155   | 1:444   |
| 3B                        | 1:17   | 1:127   | 1:368   |
| 2B                        | 1:12   | 1:85    | 1:259   |
| 4P                        | 1:12   | 1:69    | 1:176   |
| 3P                        | 1:10   | 1:60    | 1:144   |
| 2P                        | 1:8    | 1:40    | 1:99    |
| 1P                        | 1:5    | 1:21    | 1:53    |

| 0.040" |         |         |
|--------|---------|---------|
| 0.55   |         |         |
| 1cP    | 50 cP   | 120 cP  |
| 1:204  | 1:1,884 | 1:4,760 |
| 1:133  | 1:1,447 | 1:3,622 |
| 1:117  | 1:1,160 | 1:2,768 |
| 1:111  | 1:1,099 | 1:2,589 |
| 1:85   | 1:799   | 1:2,138 |
| 1:61   | 1:607   | 1:1,717 |
| 1:67   | 1:624   | 1:1,738 |
| 1:58   | 1:498   | 1:1,488 |
| 1:44   | 1:361   | 1:1,107 |
| 1:37   | 1:284   | 1:815   |
| 1:31   | 1:233   | 1:676   |
| 1:23   | 1:156   | 1:475   |
| 1:22   | 1:127   | 1:324   |
| 1:19   | 1:110   | 1:265   |
| 1:15   | 1:74    | 1:182   |
| 1:10   | 1:39    | 1:97    |

| 0.051" |         |         |
|--------|---------|---------|
| 0.85   |         |         |
| 1cP    | 50 cP   | 120 cP  |
| 1:315  | 1:2,912 | 1:7,356 |
| 1:206  | 1:2,237 | 1:5,598 |
| 1:182  | 1:1,793 | 1:4,278 |
| 1:172  | 1:1,698 | 1:4,001 |
| 1:132  | 1:1,235 | 1:3,305 |
| 1:95   | 1:939   | 1:2,654 |
| 1:104  | 1:964   | 1:2,687 |
| 1:90   | 1:771   | 1:2,299 |
| 1:68   | 1:559   | 1:1,712 |
| 1:58   | 1:440   | 1:1,260 |
| 1:49   | 1:361   | 1:1,045 |
| 1:37   | 1:242   | 1:735   |
| 1:35   | 1:197   | 1:502   |
| 1:29   | 1:171   | 1:409   |
| 1:24   | 1:115   | 1:281   |
| 1:15   | 1:61    | 1:151   |

No Tools Required!



Hand tighten fittings so that arrows are aligned.



| Nozzle size               | 0.057" |         |          |
|---------------------------|--------|---------|----------|
| Flow Rate @ 200 PSI (GPM) | 1.14   |         |          |
| Viscosity                 | 1cP    | 50 cP   | 120 cP   |
| 4R                        | 1:419  | 1:3,469 | 1:10,970 |
| 3R                        | 1:270  | 1:2,483 | 1:8,193  |
| 2R                        | 1:240  | 1:2,103 | 1:5,393  |
| 4Y                        | 1:231  | 1:2,236 | 1:5,017  |
| 3Y                        | 1:179  | 1:1,572 | 1:4,045  |
| 2Y                        | 1:127  | 1:1,262 | 1:3,575  |
| 4G                        | 1:134  | 1:1,296 | 1:3,409  |
| 3G                        | 1:120  | 1:990   | 1:2,889  |
| 2G                        | 1:94   | 1:778   | 1:2,101  |
| 4B                        | 1:79   | 1:617   | 1:1,613  |
| 3B                        | 1:66   | 1:491   | 1:1,409  |
| 2B                        | 1:50   | 1:331   | 1:1,006  |
| 4P                        | 1:47   | 1:275   | 1:673    |
| 3P                        | 1:39   | 1:238   | 1:549    |
| 2P                        | 1:32   | 1:161   | 1:378    |
| 1P                        | 1:21   | 1:86    | 1:203    |

| 0.070" |         |          |
|--------|---------|----------|
| 1.66   |         |          |
| 1cP    | 50 cP   | 120 cP   |
| 1:614  | 1:6,713 | 1:14,280 |
| 1:401  | 1:5,940 | 1:12,083 |
| 1:361  | 1:4,224 | 1:7,920  |
| 1:331  | 1:3,813 | 1:7,363  |
| 1:266  | 1:2,572 | 1:6,120  |
| 1:186  | 1:2,076 | 1:5,207  |
| 1:207  | 1:2,094 | 1:5,067  |
| 1:179  | 1:1,716 | 1:4,343  |
| 1:132  | 1:1,089 | 1:3,079  |
| 1:114  | 1:917   | 1:2,410  |
| 1:98   | 1:748   | 1:2,030  |
| 1:71   | 1:491   | 1:1,483  |
| 1:70   | 1:401   | 1:981    |
| 1:58   | 1:347   | 1:801    |
| 1:47   | 1:235   | 1:550    |
| 1:31   | 1:126   | 1:296    |

| 0.083" |         |          |
|--------|---------|----------|
| 2.40   |         |          |
| 1cP    | 50 cP   | 120 cP   |
| 1:892  | 1:8,225 | 1:20,773 |
| 1:585  | 1:6,318 | 1:15,808 |
| 1:516  | 1:5,065 | 1:12,080 |
| 1:488  | 1:4,797 | 1:11,299 |
| 1:374  | 1:3,490 | 1:9,333  |
| 1:270  | 1:2,652 | 1:7,495  |
| 1:296  | 1:2,724 | 1:7,588  |
| 1:255  | 1:2,178 | 1:6,494  |
| 1:195  | 1:1,579 | 1:4,835  |
| 1:165  | 1:1,244 | 1:3,561  |
| 1:140  | 1:1,022 | 1:2,951  |
| 1:105  | 1:685   | 1:2,078  |
| 1:101  | 1:558   | 1:1,419  |
| 1:84   | 1:483   | 1:1,158  |
| 1:69   | 1:327   | 1:796    |
| 1:45   | 1:175   | 1:428    |

| 0.086" |         |          |
|--------|---------|----------|
| 2.55   |         |          |
| 1cP    | 50 cP   | 120 cP   |
| 1:918  | 1:8,754 | 1:26,325 |
| 1:611  | 1:8,139 | 1:15,568 |
| 1:530  | 1:6,662 | 1:12,374 |
| 1:500  | 1:6,353 | 1:13,043 |
| 1:375  | 1:4,467 | 1:10,054 |
| 1:280  | 1:3,156 | 1:7,868  |
| 1:307  | 1:3,309 | 1:8,466  |
| 1:263  | 1:2,664 | 1:7,203  |
| 1:202  | 1:1,752 | 1:4,842  |
| 1:172  | 1:1,461 | 1:3,902  |
| 1:144  | 1:1,148 | 1:3,028  |
| 1:112  | 1:793   | 1:2,021  |
| 1:107  | 1:616   | 1:1,507  |
| 1:90   | 1:534   | 1:1,230  |
| 1:73   | 1:362   | 1:846    |
| 1:48   | 1:194   | 1:455    |

| Nozzle size               | 0.098"  |         |          |
|---------------------------|---------|---------|----------|
| Flow Rate @ 200 PSI (GPM) | 3.15    |         |          |
| Viscosity                 | 1cP     | 50 cP   | 120 cP   |
| 4R                        | 1:1,151 | 1:9,893 | 1:25,834 |
| 3R                        | 1:769   | 1:8,691 | 1:20,900 |
| 2R                        | 1:680   | 1:7,018 | 1:17,223 |
| 4Y                        | 1:641   | 1:7,018 | 1:16,035 |
| 3Y                        | 1:480   | 1:5,470 | 1:13,478 |
| 2Y                        | 1:352   | 1:4,043 | 1:10,276 |
| 4G                        | 1:397   | 1:3,819 | 1:10,690 |
| 3G                        | 1:331   | 1:3,024 | 1:9,117  |
| 2G                        | 1:253   | 1:2,330 | 1:7,717  |
| 4B                        | 1:211   | 1:1,702 | 1:4,933  |
| 3B                        | 1:184   | 1:1,481 | 1:3,940  |
| 2B                        | 1:138   | 1:955   | 1:2,830  |
| 4P                        | 1:133   | 1:762   | 1:1,937  |
| 3P                        | 1:111   | 1:660   | 1:1,581  |
| 2P                        | 1:90    | 1:447   | 1:1,087  |
| 1P                        | 1:59    | 1:239   | 1:585    |

| 0.116"  |          |          |
|---------|----------|----------|
| 4.30    |          |          |
| 1cP     | 50 cP    | 120 cP   |
| 1:1,599 | 1:14,737 | 1:37,218 |
| 1:1,048 | 1:11,320 | 1:28,324 |
| 1:925   | 1:9,076  | 1:21,644 |
| 1:875   | 1:8,596  | 1:20,244 |
| 1:671   | 1:6,254  | 1:16,722 |
| 1:485   | 1:4,752  | 1:13,429 |
| 1:532   | 1:4,882  | 1:13,597 |
| 1:458   | 1:3,903  | 1:11,637 |
| 1:349   | 1:2,830  | 1:8,663  |
| 1:297   | 1:2,229  | 1:6,381  |
| 1:252   | 1:1,831  | 1:5,288  |
| 1:189   | 1:1,228  | 1:3,723  |
| 1:182   | 1:1,000  | 1:2,542  |
| 1:152   | 1:867    | 1:2,075  |
| 1:124   | 1:587    | 1:1,427  |
| 1:82    | 1:315    | 1:768    |

| 0.125"  |          |          |
|---------|----------|----------|
| 5.10    |          |          |
| 1cP     | 50 cP    | 120 cP   |
| 1:2,027 | 1:19,182 | 1:39,626 |
| 1:1,303 | 1:14,272 | 1:32,735 |
| 1:1,140 | 1:11,809 | 1:30,116 |
| 1:1,100 | 1:10,243 | 1:25,307 |
| 1:830   | 1:8,319  | 1:22,474 |
| 1:597   | 1:5,618  | 1:16,547 |
| 1:655   | 1:5,870  | 1:17,014 |
| 1:560   | 1:4,810  | 1:14,835 |
| 1:426   | 1:3,654  | 1:11,809 |
| 1:367   | 1:2,669  | 1:8,073  |
| 1:302   | 1:2,279  | 1:6,922  |
| 1:229   | 1:1,554  | 1:4,802  |
| 1:216   | 1:1,234  | 1:3,136  |
| 1:180   | 1:1,069  | 1:2,560  |
| 1:147   | 1:725    | 1:1,760  |
| 1:97    | 1:388    | 1:948    |

| 0.136"  |          |          |
|---------|----------|----------|
| 6.10    |          |          |
| 1cP     | 50 cP    | 120 cP   |
| 1:2,268 | 1:20,906 | 1:52,799 |
| 1:1,487 | 1:16,059 | 1:40,181 |
| 1:1,312 | 1:12,875 | 1:30,705 |
| 1:1,242 | 1:12,195 | 1:28,719 |
| 1:952   | 1:8,873  | 1:23,723 |
| 1:688   | 1:6,742  | 1:19,051 |
| 1:755   | 1:6,926  | 1:19,289 |
| 1:650   | 1:5,537  | 1:16,508 |
| 1:496   | 1:4,016  | 1:12,290 |
| 1:422   | 1:3,162  | 1:9,052  |
| 1:358   | 1:2,598  | 1:7,503  |
| 1:269   | 1:1,743  | 1:5,282  |
| 1:258   | 1:1,419  | 1:3,607  |
| 1:216   | 1:1,230  | 1:2,944  |
| 1:176   | 1:834    | 1:2,025  |
| 1:116   | 1:447    | 1:1,090  |

FIELD TESTS ARE RECOMMENDED TO VERIFY DILUTION RATES.

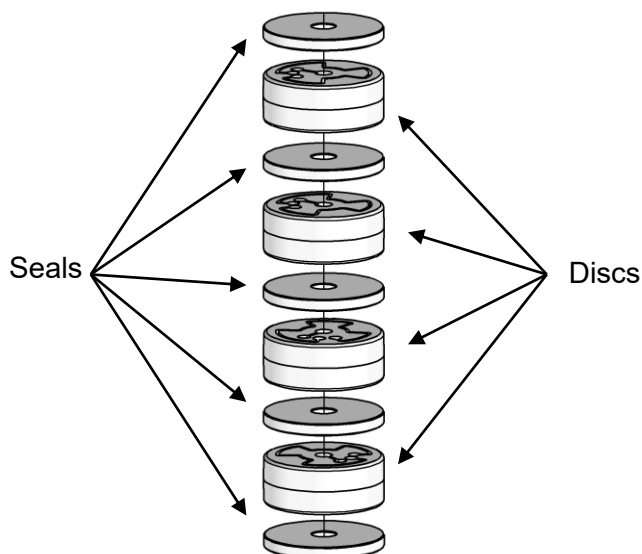
## Dilution Rates: Iota with DEMA Proportioners at 40 PSI

| Chemical Viscosity | 1 cP   |         |        | 50 cP    |           |           | 120 cP    |           |           |
|--------------------|--------|---------|--------|----------|-----------|-----------|-----------|-----------|-----------|
| Flow Rate          | 1 GPM  | 2.5 GPM | 4 GPM  | 1 GPM    | 2.5 GPM   | 4 GPM     | 1 GPM     | 2.5 GPM   | 4 GPM     |
| 4R                 | 1: 318 | 1: 663  | 1: 932 | 1: 7,054 | 1: 14,682 | 1: 20,647 | 1: 15,519 | 1: 32,301 | 1: 45,424 |
| 3R                 | 1: 303 | 1: 631  | 1: 887 | 1: 4,476 | 1: 9,317  | 1: 13,102 | 1: 11,639 | 1: 24,226 | 1: 34,068 |
| 2R                 | 1: 239 | 1: 498  | 1: 701 | 1: 2,615 | 1: 5,443  | 1: 7,655  | 1: 6,651  | 1: 13,843 | 1: 19,467 |
| 4Y                 | 1: 207 | 1: 432  | 1: 607 | 1: 3,526 | 1: 7,340  | 1: 10,323 | 1: 7,274  | 1: 15,141 | 1: 21,292 |
| 3Y                 | 1: 167 | 1: 349  | 1: 491 | 1: 2,873 | 1: 5,981  | 1: 8,411  | 1: 5,677  | 1: 11,817 | 1: 16,618 |
| 2Y                 | 1: 125 | 1: 262  | 1: 368 | 1: 1,861 | 1: 3,875  | 1: 5,450  | 1: 2,557  | 1: 5,324  | 1: 7,487  |
| 4G                 | 1: 145 | 1: 303  | 1: 426 | 1: 1,955 | 1: 4,071  | 1: 5,725  | 1: 4,232  | 1: 8,809  | 1: 12,388 |
| 3G                 | 1: 118 | 1: 247  | 1: 347 | 1: 1,491 | 1: 3,105  | 1: 4,367  | 1: 3,278  | 1: 6,823  | 1: 9,596  |
| 2G                 | 1: 89  | 1: 186  | 1: 262 | 1: 1,011 | 1: 2,106  | 1: 2,961  | 1: 2,135  | 1: 4,444  | 1: 6,250  |
| 4B                 | 1: 76  | 1: 159  | 1: 224 | 1: 733   | 1: 1,527  | 1: 2,148  | 1: 1,847  | 1: 3,844  | 1: 5,407  |
| 3B                 | 1: 63  | 1: 132  | 1: 185 | 1: 520   | 1: 1,083  | 1: 1,523  | 1: 1,368  | 1: 2,849  | 1: 4,007  |
| 2B                 | 1: 49  | 1: 104  | 1: 146 | 1: 340   | 1: 709    | 1: 998    | 1: 934    | 1: 1,945  | 1: 2,735  |
| 4P                 | 1: 46  | 1: 98   | 1: 138 | 1: 309   | 1: 645    | 1: 907    | 1: 743    | 1: 1,547  | 1: 2,176  |
| 3P                 | 1: 39  | 1: 83   | 1: 117 | 1: 232   | 1: 485    | 1: 682    | 1: 557    | 1: 1,161  | 1: 1,633  |
| 2P                 | 1: 31  | 1: 65   | 1: 92  | 1: 161   | 1: 336    | 1: 473    | 1: 374    | 1: 781    | 1: 1,098  |
| 1P                 | 1: 21  | 1: 44   | 1: 62  | 1: 82    | 1: 173    | 1: 243    | 1: 195    | 1: 408    | 1: 574    |

FIELD TESTS ARE RECOMMENDED TO VERIFY DILUTION RATES.

## Disc Configurations

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4R  | 3R  | 2R  | 4Y  | 3Y  | 2Y  | 4G  | 3G  | 2G  | 4B  | 3B  | 2B  | 4P  | 3P  | 2P  | 1P  |
| RED | WHT | WHT | YLW | WHT | WHT | GRN | WHT | WHT | BLU | WHT | WHT | PUR | WHT | WHT | WHT |
| RED | RED | WHT | YLW | YLW | WHT | GRN | GRN | WHT | BLU | BLU | WHT | PUR | PUR | WHT | WHT |
| RED | RED | RED | YLW | YLW | YLW | GRN | GRN | GRN | BLU | BLU | BLU | PUR | PUR | PUR | WHT |
| RED | RED | RED | YLW | YLW | YLW | GRN | GRN | GRN | BLU | BLU | BLU | PUR | PUR | PUR | PUR |



# Induction Amounts

| Viscosity       | 1 cP   |        | 15 cP  |        | 25 cP  |        | 35 cP |        | 45 cP |        | 55 cP |        |
|-----------------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|-------|--------|
| Amount Inducted | g/min  | oz/min | g/min  | oz/min | g/min  | oz/min | g/min | oz/min | g/min | oz/min | g/min | oz/min |
| 4R              | 10.17  | 0.344  | 3.60   | 0.122  | 1.56   | 0.053  | 1.20  | 0.041  | 1.10  | 0.037  | 1.02  | 0.034  |
| 3R              | 15.51  | 0.525  | 6.00   | 0.203  | 1.92   | 0.065  | 1.50  | 0.051  | 1.44  | 0.049  | 1.33  | 0.045  |
| 2R              | 17.59  | 0.595  | 8.00   | 0.271  | 3.00   | 0.101  | 2.00  | 0.068  | 1.79  | 0.061  | 1.66  | 0.056  |
| 4Y              | 18.58  | 0.628  | 9.00   | 0.304  | 3.14   | 0.106  | 2.10  | 0.071  | 1.89  | 0.064  | 1.76  | 0.059  |
| 3Y              | 24.23  | 0.819  | 11.00  | 0.372  | 3.84   | 0.130  | 2.70  | 0.091  | 2.60  | 0.088  | 2.40  | 0.081  |
| 2Y              | 33.51  | 1.133  | 17.00  | 0.575  | 7.90   | 0.267  | 4.00  | 0.135  | 3.42  | 0.116  | 3.15  | 0.107  |
| 4G              | 30.56  | 1.033  | 16.00  | 0.541  | 7.66   | 0.259  | 4.40  | 0.149  | 3.33  | 0.113  | 3.07  | 0.104  |
| 3G              | 35.47  | 1.199  | 18.60  | 0.629  | 10.08  | 0.341  | 5.70  | 0.193  | 4.17  | 0.141  | 3.82  | 0.129  |
| 2G              | 46.47  | 1.571  | 26.00  | 0.879  | 13.99  | 0.473  | 8.40  | 0.284  | 5.75  | 0.194  | 5.27  | 0.178  |
| 4B              | 54.58  | 1.846  | 30.00  | 1.014  | 17.00  | 0.575  | 9.50  | 0.321  | 7.30  | 0.247  | 6.70  | 0.227  |
| 3B              | 64.39  | 2.177  | 36.00  | 1.217  | 20.00  | 0.676  | 12.50 | 0.423  | 8.88  | 0.300  | 8.16  | 0.276  |
| 2B              | 85.51  | 2.892  | 48.00  | 1.623  | 27.00  | 0.913  | 17.00 | 0.575  | 13.24 | 0.448  | 12.13 | 0.410  |
| 4P              | 89.06  | 3.011  | 61.40  | 2.076  | 34.00  | 1.150  | 20.60 | 0.697  | 16.26 | 0.550  | 13.20 | 0.446  |
| 3P              | 106.62 | 3.605  | 79.00  | 2.671  | 51.40  | 1.738  | 31.60 | 1.069  | 18.76 | 0.634  | 15.60 | 0.527  |
| 2P              | 130.38 | 4.409  | 94.00  | 3.179  | 63.00  | 2.130  | 42.00 | 1.420  | 27.66 | 0.935  | 23.60 | 0.798  |
| P               | 197.20 | 6.668  | 142.00 | 4.802  | 104.00 | 3.517  | 73.20 | 2.475  | 51.58 | 1.744  | 42.40 | 1.434  |

| Viscosity       | 65 cP |        | 75 cP |        | 85 cP |        | 95 cP |        | 105 cP |        | 115 cP |        | 125 cP |        |
|-----------------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| Amount Inducted | g/min | oz/min | g/min | oz/min | g/min | oz/min | g/min | oz/min | g/min  | oz/min | g/min  | oz/min | g/min  | oz/min |
| 4R              | 0.94  | 0.032  | 0.85  | 0.029  | 0.77  | 0.026  | 0.68  | 0.023  | 0.60   | 0.020  | 0.51   | 0.017  | 0.44   | 0.015  |
| 3R              | 1.22  | 0.041  | 1.11  | 0.038  | 1.01  | 0.034  | 0.90  | 0.030  | 0.79   | 0.027  | 0.68   | 0.023  | 0.57   | 0.019  |
| 2R              | 1.53  | 0.052  | 1.41  | 0.048  | 1.28  | 0.043  | 1.15  | 0.039  | 1.02   | 0.034  | 0.89   | 0.030  | 0.76   | 0.026  |
| 4Y              | 1.62  | 0.055  | 1.48  | 0.050  | 1.34  | 0.045  | 1.21  | 0.041  | 1.07   | 0.036  | 0.93   | 0.032  | 0.80   | 0.027  |
| 3Y              | 2.20  | 0.074  | 2.00  | 0.067  | 1.79  | 0.061  | 1.59  | 0.054  | 1.39   | 0.047  | 1.19   | 0.040  | 0.97   | 0.033  |
| 2Y              | 2.88  | 0.097  | 2.60  | 0.088  | 2.33  | 0.079  | 2.05  | 0.069  | 1.78   | 0.060  | 1.50   | 0.051  | 1.21   | 0.041  |
| 4G              | 2.80  | 0.095  | 2.53  | 0.086  | 2.27  | 0.077  | 2.00  | 0.068  | 1.74   | 0.059  | 1.47   | 0.050  | 1.20   | 0.040  |
| 3G              | 3.48  | 0.118  | 3.13  | 0.106  | 2.79  | 0.094  | 2.44  | 0.083  | 2.10   | 0.071  | 1.75   | 0.059  | 1.40   | 0.047  |
| 2G              | 4.78  | 0.162  | 4.30  | 0.145  | 3.82  | 0.129  | 3.33  | 0.113  | 2.85   | 0.096  | 2.37   | 0.080  | 1.88   | 0.064  |
| 4B              | 6.11  | 0.207  | 5.51  | 0.186  | 4.92  | 0.166  | 4.32  | 0.146  | 3.73   | 0.126  | 3.13   | 0.106  | 2.55   | 0.086  |
| 3B              | 7.43  | 0.251  | 6.70  | 0.227  | 5.97  | 0.202  | 5.24  | 0.177  | 4.51   | 0.153  | 3.79   | 0.128  | 3.08   | 0.104  |
| 2B              | 11.02 | 0.373  | 9.91  | 0.335  | 8.80  | 0.298  | 7.69  | 0.260  | 6.58   | 0.222  | 5.47   | 0.185  | 5.50   | 0.186  |
| 4P              | 12.22 | 0.413  | 11.04 | 0.373  | 9.86  | 0.333  | 8.68  | 0.294  | 7.50   | 0.254  | 7.00   | 0.237  | 6.40   | 0.216  |
| 3P              | 13.40 | 0.453  | 10.20 | 0.345  | 9.60  | 0.325  | 9.40  | 0.318  | 9.00   | 0.304  | 8.40   | 0.284  | 7.84   | 0.265  |
| 2P              | 21.60 | 0.730  | 19.60 | 0.663  | 17.86 | 0.604  | 15.48 | 0.523  | 13.60  | 0.460  | 11.90  | 0.402  | 11.40  | 0.385  |
| P               | 37.00 | 1.251  | 33.80 | 1.143  | 30.60 | 1.035  | 28.00 | 0.947  | 26.00  | 0.879  | 23.00  | 0.778  | 21.16  | 0.716  |

## Notes:

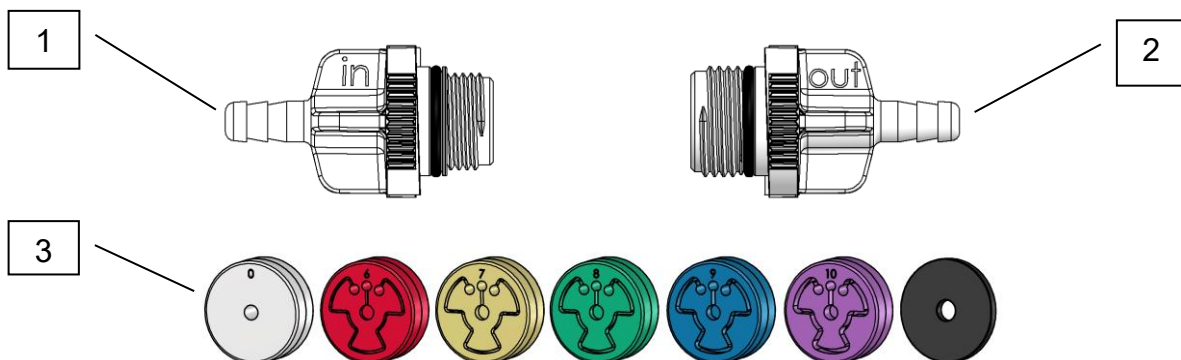
1. The oz/min values are based on a specific gravity of 1.0; to obtain accurate induction rates, divide the corresponding value by the specific gravity of the inducted fluid.
2. The above values are for reference only and serve as an initial guide for selecting the appropriate configuration.
3. Avoid referencing inducted fluid amounts less than 1 gram, as testing discrepancies at such low levels exceed the measured values, resulting in unreliable data.

## Troubleshooting

| Symptom                                              | Probable Cause                                                | Remedy                                                                                                         |
|------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| No chemical draw                                     | Water pressure is below recommended range                     | Pressure variances will impact dilution rates. Verify pressure from water supply.                              |
|                                                      | Incorrect orientation of the Iota device                      | Ensure the Iota is installed with the inlet and outlet barbs properly aligned                                  |
|                                                      | Debris in the inlet strainer or discs                         | Remove and clean the inlet strainer and metering discs                                                         |
|                                                      | Chemical tubing is cracked or loose                           | Inspect tubing and replace if damaged or brittle                                                               |
| Improper dilution rate                               | Incorrect disc configuration                                  | Verify the correct color-coded discs are installed according to the Dilution Rates table                       |
|                                                      | Washer(s) missing or improperly installed                     | Ensure washers are placed on both sides of each colored disc. Refer to the diagram in the Installation section |
| Chemical continues to siphon after water is shut off | Chemical container is positioned higher than the proportioner | Lower the chemical container to prevent siphoning                                                              |
| Device is difficult to prime                         | Iota is too far from the injector                             | Move the Iota closer to the injector to reduce priming time                                                    |

## Replacement Parts

| ITEM NO. | PART NO.      | DESCRIPTION                                                                                                                                                                                      |
|----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1        | 100.18.INLET  | Replacement Inlet Fitting with Integrated Mesh Strainer                                                                                                                                          |
| 2        | 100.18.OUTLET | Replacement Outlet Fitting                                                                                                                                                                       |
| 3        | 100.18.ALL    | Set of All Replacement Discs and Seals: <ul style="list-style-type: none"> <li>• 3 x White Spacer</li> <li>• 4 x Red, Yellow, Green, Blue, and Purple Discs</li> <li>• 5 x AFLAS Seal</li> </ul> |



# Warranty

## Merchandise Returns

***No merchandise will be returned for credit without DEMA'S written permission.  
Returned merchandise authorization number is required in advance of return.***

## Product Warranty

DEMA products are warranted against defective material and workmanship under normal use and service for one year from the date of manufacture. This limited warranty does not apply to any products that have a normal life shorter than one year, or failure and damage caused by chemicals, corrosion, physical abuse, or misapplication. Rubber and synthetic rubber parts such as "O"-rings, diaphragms, PVC tubing, and gaskets are considered expendable and are not covered under warranty. This warranty is extended only to the original buyer of DEMA products. If products are altered or repaired without prior approval of DEMA, this warranty is void.

Defective units or parts should be returned to the factory with transportation prepaid. If inspection shows them to be defective, they will be repaired or replaced without charge, F.O.B. factory. DEMA assumes no liability for damages. Return merchandise authorization number must be granted in advance of returned units for repair or replacement (See "Merchandise Returns" above).