

Calculation of mass flow rate based on polynomial equation fitted to the experimental data

$$y = -1.29821197E-13x^6 - 1.32318334E-11x^5 + 5.98222511E-09x^4 - 5.37887785E-08x^3 - 1.29674371E-05x^2 + 1.17866616E-02x + 8.52109985E+01$$

Please enter below Polynomial Coefficients

| Order no | Coeff |
|----------|-----------------|
| 6 | -1.29821197E-13 |
| 5 | -1.32318334E-11 |
| 4 | 5.98222511E-09 |
| 3 | -5.37887785E-08 |
| 2 | -1.29674371E-05 |
| 1 | 1.17866616E-02 |
| 0 | 8.52109985E+01 |

8.743313695 average integrated mass flow

| | | | |
|----------------------|-------------------------------|----------------------|-------------------------------|
| Actual Area | 0.274324656 [m ²] | Actual Area | 0.274324656 [m ²] |
| Integrated area | 0.275253782 [m ²] | Integrated area | 0.275253782 [m ²] |
| Area Error | 0.338695778 [%] | Area Error | 0.338695778 [%] |
| Integrated Mass flow | 7.985318854 [Kg/s] | Integrated Mass flow | 9.501308535 [Kg/s] |

Polynomial curve (dP vs position)

Please do NOT alter any of the figures below

| position [mm] | Velocity [m/s] |
|---------------|----------------|
| 0 | 85.210999 |
| 1 | 85.222772 |
| 2 | 85.234520 |
| 3 | 85.246241 |
| 4 | 85.257936 |
| 5 | 85.269605 |
| 6 | 85.281248 |
| 7 | 85.292865 |
| 8 | 85.304458 |
| 9 | 85.316027 |
| 10 | 85.327573 |
| 11 | 85.339096 |
| 12 | 85.350599 |
| 13 | 85.362081 |
| 14 | 85.373544 |
| 15 | 85.384991 |
| 16 | 85.396421 |
| 17 | 85.407838 |
| 18 | 85.419242 |
| 19 | 85.430636 |
| 20 | 85.442021 |
| 21 | 85.453400 |
| 22 | 85.464775 |
| 23 | 85.476147 |
| 24 | 85.487520 |
| 25 | 85.498896 |
| 26 | 85.510277 |
| 27 | 85.521665 |
| 28 | 85.533065 |
| 29 | 85.544477 |
| 30 | 85.555905 |
| 31 | 85.567352 |
| 32 | 85.578820 |
| 33 | 85.590313 |
| 34 | 85.601833 |
| 35 | 85.613384 |
| 36 | 85.624968 |
| 37 | 85.636589 |
| 38 | 85.648250 |
| 39 | 85.659953 |
| 40 | 85.671702 |
| 41 | 85.683501 |
| 42 | 85.695352 |
| 43 | 85.707258 |
| 44 | 85.719222 |
| 45 | 85.731249 |
| 46 | 85.743340 |
| 47 | 85.755499 |
| 48 | 85.767729 |
| 49 | 85.780034 |
| 50 | 85.792415 |
| 51 | 85.804876 |
| 52 | 85.817420 |

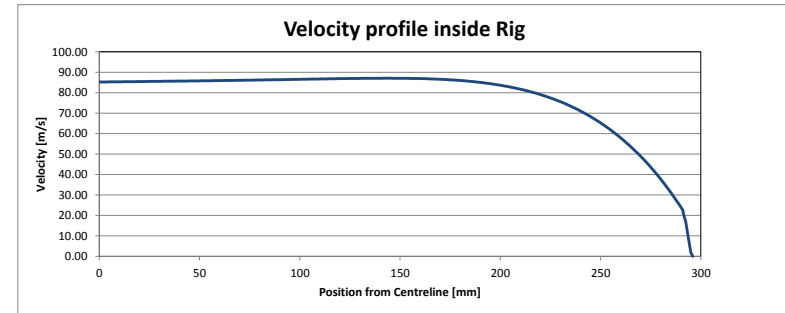
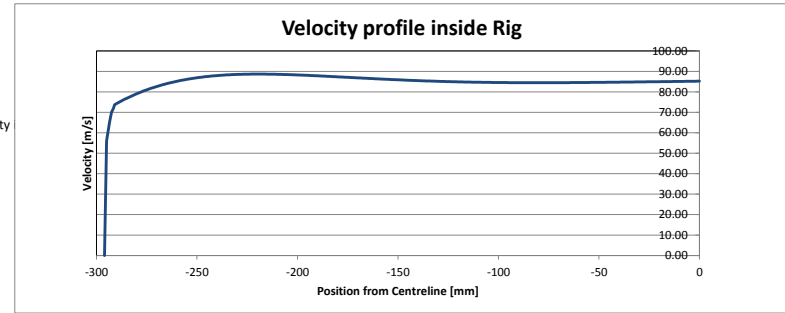
| position [mm] | Velocity [m/s] |
|---------------|----------------|
| 0 | 85.210999 |
| -1 | 85.199199 |
| -2 | 85.187374 |
| -3 | 85.175524 |
| -4 | 85.163649 |
| -5 | 85.151752 |
| -6 | 85.139831 |
| -7 | 85.127889 |
| -8 | 85.115928 |
| -9 | 85.103947 |
| -10 | 85.091950 |
| -11 | 85.079937 |
| -12 | 85.067911 |
| -13 | 85.055874 |
| -14 | 85.043827 |
| -15 | 85.031774 |
| -16 | 85.019716 |
| -17 | 85.007657 |
| -18 | 84.995599 |
| -19 | 84.983546 |
| -20 | 84.971500 |
| -21 | 84.959464 |
| -22 | 84.947443 |
| -23 | 84.935440 |
| -24 | 84.923458 |
| -25 | 84.911502 |
| -26 | 84.899576 |
| -27 | 84.887683 |
| -28 | 84.875828 |
| -29 | 84.864017 |
| -30 | 84.852253 |
| -31 | 84.840541 |
| -32 | 84.828887 |
| -33 | 84.817295 |
| -34 | 84.805771 |
| -35 | 84.794320 |
| -36 | 84.782948 |
| -37 | 84.771660 |
| -38 | 84.760463 |
| -39 | 84.749362 |
| -40 | 84.738364 |
| -41 | 84.727475 |
| -42 | 84.716701 |
| -43 | 84.706048 |
| -44 | 84.695524 |
| -45 | 84.685136 |
| -46 | 84.674889 |
| -47 | 84.664791 |
| -48 | 84.654850 |
| -49 | 84.645073 |
| -50 | 84.635466 |
| -51 | 84.626037 |
| -52 | 84.616795 |

| Delta Area [m ²] | Delta Mass flow [Kg/s] |
|------------------------------|------------------------|
| 0 | 0 |
| 3.14159E-06 | 0.000109771 |
| 9.42478E-06 | 0.00032936 |
| 1.5708E-05 | 0.000549008 |
| 2.19911E-05 | 0.000768717 |
| 2.82743E-05 | 0.000988486 |
| 3.45575E-05 | 0.001208314 |
| 4.08407E-05 | 0.001428202 |
| 4.71239E-05 | 0.00164815 |
| 5.34071E-05 | 0.001868157 |
| 5.96903E-05 | 0.002088222 |
| 6.59734E-05 | 0.002308347 |
| 7.22566E-05 | 0.00252853 |
| 7.85398E-05 | 0.002748772 |
| 8.4823E-05 | 0.002969073 |
| 9.11062E-05 | 0.003189431 |
| 9.73894E-05 | 0.003409849 |
| 0.000103673 | 0.003630324 |
| 0.000109956 | 0.003850858 |
| 0.000116239 | 0.00407145 |
| 0.000122522 | 0.00429221 |
| 0.000128805 | 0.004512809 |
| 0.000135088 | 0.004733576 |
| 0.000141372 | 0.004954401 |
| 0.000147655 | 0.005175285 |
| 0.000153938 | 0.005396228 |
| 0.000160221 | 0.00561723 |
| 0.000166504 | 0.005838291 |
| 0.000172788 | 0.006059412 |
| 0.000179071 | 0.006280592 |
| 0.000185354 | 0.006501832 |
| 0.000191637 | 0.006723132 |
| 0.00019792 | 0.006944493 |
| 0.000204204 | 0.007165916 |
| 0.000210487 | 0.0073874 |
| 0.00021677 | 0.007608946 |
| 0.000223053 | 0.007830554 |
| 0.000229336 | 0.008052226 |
| 0.000235619 | 0.008273961 |
| 0.000241903 | 0.008495761 |
| 0.000248186 | 0.008717626 |
| 0.000254469 | 0.008939556 |
| 0.000260752 | 0.009161553 |
| 0.000267035 | 0.009383617 |
| 0.000273319 | 0.009605748 |
| 0.000279602 | 0.009827949 |
| 0.000285885 | 0.010050219 |
| 0.000292168 | 0.010272559 |
| 0.000298451 | 0.010494971 |
| 0.000304734 | 0.010717455 |
| 0.000311018 | 0.010940012 |
| 0.000317301 | 0.011162644 |
| 0.000323584 | 0.011385351 |

Based on

| Delta Area [m ²] | Delta Mass flow [Kg/s] |
|------------------------------|------------------------|
| 0 | 0 |
| 3.14159E-06 | 0.000109741 |
| 9.42478E-06 | 0.000329178 |
| 1.5708E-05 | 0.000548553 |
| 2.19911E-05 | 0.000767867 |
| 2.82743E-05 | 0.00098712 |
| 3.45575E-05 | 0.001206311 |
| 4.08407E-05 | 0.00142544 |
| 4.71239E-05 | 0.001644507 |
| 5.34071E-05 | 0.001863513 |
| 5.96903E-05 | 0.002082456 |
| 6.59734E-05 | 0.002301337 |
| 7.22566E-05 | 0.002520155 |
| 7.85398E-05 | 0.002738912 |
| 8.4823E-05 | 0.002957606 |
| 9.11062E-05 | 0.003176237 |
| 9.73894E-05 | 0.003394807 |
| 0.000103673 | 0.003613314 |
| 0.000109956 | 0.003831759 |
| 0.000116239 | 0.004050142 |
| 0.000122522 | 0.004268464 |
| 0.000128805 | 0.004486724 |
| 0.000135088 | 0.004704923 |
| 0.000141372 | 0.004923061 |
| 0.000147655 | 0.005141138 |
| 0.000153938 | 0.005359155 |
| 0.000160221 | 0.005577113 |
| 0.000166504 | 0.005795011 |
| 0.000172788 | 0.006012851 |
| 0.000179071 | 0.006230633 |
| 0.000185354 | 0.006448358 |
| 0.000191637 | 0.006666026 |
| 0.00019792 | 0.006883638 |
| 0.000204204 | 0.007101196 |
| 0.000210487 | 0.0073187 |
| 0.00021677 | 0.007536151 |
| 0.000223053 | 0.00775355 |
| 0.000229336 | 0.007970898 |
| 0.000235619 | 0.008188198 |
| 0.000241903 | 0.008405449 |
| 0.000248186 | 0.008622653 |
| 0.000254469 | 0.008839812 |
| 0.000260752 | 0.009056927 |
| 0.000267035 | 0.009274 |
| 0.000273319 | 0.009491032 |
| 0.000279602 | 0.009708026 |
| 0.000285885 | 0.009924983 |
| 0.000292168 | 0.010141905 |
| 0.000298451 | 0.010358794 |
| 0.000304734 | 0.010575652 |
| 0.000311018 | 0.010792481 |
| 0.000317301 | 0.011009285 |
| 0.000323584 | 0.011226064 |

Based on density



| | |
|-----|-----------|
| 53 | 85.830050 |
| 54 | 85.842768 |
| 55 | 85.855577 |
| 56 | 85.868481 |
| 57 | 85.881480 |
| 58 | 85.894578 |
| 59 | 85.907778 |
| 60 | 85.921081 |
| 61 | 85.934489 |
| 62 | 85.948005 |
| 63 | 85.961630 |
| 64 | 85.975366 |
| 65 | 85.989215 |
| 66 | 86.003178 |
| 67 | 86.017257 |
| 68 | 86.031452 |
| 69 | 86.045765 |
| 70 | 86.060196 |
| 71 | 86.074746 |
| 72 | 86.089415 |
| 73 | 86.104204 |
| 74 | 86.119113 |
| 75 | 86.134140 |
| 76 | 86.149287 |
| 77 | 86.164551 |
| 78 | 86.179933 |
| 79 | 86.195430 |
| 80 | 86.211042 |
| 81 | 86.226766 |
| 82 | 86.242602 |
| 83 | 86.258545 |
| 84 | 86.274594 |
| 85 | 86.290746 |
| 86 | 86.306997 |
| 87 | 86.323344 |
| 88 | 86.339783 |
| 89 | 86.356309 |
| 90 | 86.372919 |
| 91 | 86.389606 |
| 92 | 86.406366 |
| 93 | 86.423193 |
| 94 | 86.440081 |
| 95 | 86.457023 |
| 96 | 86.474012 |
| 97 | 86.491041 |
| 98 | 86.508101 |
| 99 | 86.525186 |
| 100 | 86.542284 |
| 101 | 86.559389 |
| 102 | 86.576489 |
| 103 | 86.593575 |
| 104 | 86.610635 |
| 105 | 86.627660 |
| 106 | 86.644636 |
| 107 | 86.661551 |
| 108 | 86.678394 |
| 109 | 86.695149 |
| 110 | 86.711804 |
| 111 | 86.728343 |
| 112 | 86.744752 |
| 113 | 86.761015 |
| 114 | 86.777115 |
| 115 | 86.793035 |
| 116 | 86.808758 |
| 117 | 86.824266 |
| 118 | 86.839538 |
| 119 | 86.854556 |
| 120 | 86.869300 |
| 121 | 86.883747 |

| | |
|------|-----------|
| -53 | 84.607747 |
| -54 | 84.598899 |
| -55 | 84.590262 |
| -56 | 84.581841 |
| -57 | 84.573646 |
| -58 | 84.565685 |
| -59 | 84.557966 |
| -60 | 84.550496 |
| -61 | 84.543285 |
| -62 | 84.536342 |
| -63 | 84.529673 |
| -64 | 84.523289 |
| -65 | 84.517198 |
| -66 | 84.511408 |
| -67 | 84.505929 |
| -68 | 84.500768 |
| -69 | 84.495936 |
| -70 | 84.491440 |
| -71 | 84.487290 |
| -72 | 84.483494 |
| -73 | 84.480062 |
| -74 | 84.477003 |
| -75 | 84.474325 |
| -76 | 84.472037 |
| -77 | 84.470149 |
| -78 | 84.468670 |
| -79 | 84.467608 |
| -80 | 84.466972 |
| -81 | 84.466772 |
| -82 | 84.467015 |
| -83 | 84.467712 |
| -84 | 84.468871 |
| -85 | 84.470500 |
| -86 | 84.472608 |
| -87 | 84.475205 |
| -88 | 84.478298 |
| -89 | 84.481897 |
| -90 | 84.486009 |
| -91 | 84.490643 |
| -92 | 84.495807 |
| -93 | 84.501510 |
| -94 | 84.507759 |
| -95 | 84.514563 |
| -96 | 84.521928 |
| -97 | 84.529864 |
| -98 | 84.538378 |
| -99 | 84.547476 |
| -100 | 84.557166 |
| -101 | 84.567456 |
| -102 | 84.578353 |
| -103 | 84.589862 |
| -104 | 84.601991 |
| -105 | 84.614746 |
| -106 | 84.628134 |
| -107 | 84.642159 |
| -108 | 84.656829 |
| -109 | 84.672149 |
| -110 | 84.688124 |
| -111 | 84.704759 |
| -112 | 84.722059 |
| -113 | 84.740029 |
| -114 | 84.758672 |
| -115 | 84.777994 |
| -116 | 84.797998 |
| -117 | 84.818687 |
| -118 | 84.840064 |
| -119 | 84.862133 |
| -120 | 84.884896 |
| -121 | 84.908355 |

| | |
|-------------|-------------|
| 0.000329867 | 0.011608133 |
| 0.000336615 | 0.011830994 |
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| 0.000361283 | 0.012723228 |
| 0.000367566 | 0.012946491 |
| 0.00037385 | 0.013169838 |
| 0.000380133 | 0.013393269 |
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| 0.000392699 | 0.013840392 |
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| 0.000405265 | 0.014287868 |
| 0.000411549 | 0.014511741 |
| 0.000417832 | 0.014735706 |
| 0.000424115 | 0.014959764 |
| 0.000430398 | 0.015183916 |
| 0.000436681 | 0.015408163 |
| 0.000442965 | 0.015632506 |
| 0.000449248 | 0.015856945 |
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| 0.000468097 | 0.016530855 |
| 0.00047438 | 0.016755692 |
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| 0.000486947 | 0.01720567 |
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| 0.000518363 | 0.018333242 |
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| 0.000530929 | 0.018783852 |
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| 0.000581195 | 0.020593766 |
| 0.000587478 | 0.020820469 |
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| 0.000600044 | 0.021274174 |
| 0.000606327 | 0.021501173 |
| 0.000612611 | 0.021728269 |
| 0.000618894 | 0.021955458 |
| 0.000625177 | 0.022182739 |
| 0.00063146 | 0.022410109 |
| 0.000637743 | 0.022637566 |
| 0.000644026 | 0.022865108 |
| 0.00065031 | 0.023092731 |
| 0.000656593 | 0.023320432 |
| 0.000662876 | 0.023548208 |
| 0.000669159 | 0.023776055 |
| 0.000675442 | 0.024003968 |
| 0.000681726 | 0.024231944 |
| 0.000688009 | 0.024459978 |
| 0.000694292 | 0.024688065 |
| 0.000700575 | 0.0249162 |
| 0.000706858 | 0.025144377 |
| 0.000713142 | 0.02537259 |
| 0.000719425 | 0.025600833 |
| 0.000725708 | 0.025829099 |
| 0.000731991 | 0.026057381 |
| 0.000738274 | 0.026285673 |
| 0.000744557 | 0.026513965 |
| 0.000750841 | 0.02674225 |
| 0.000757124 | 0.02697052 |

| | |
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| 0.000336615 | 0.011659562 |
| 0.000342434 | 0.011876285 |
| 0.000348717 | 0.012092994 |
| 0.000355 | 0.012309693 |
| 0.000361283 | 0.012526385 |
| 0.000367566 | 0.012743071 |
| 0.00037385 | 0.012959757 |
| 0.000380133 | 0.013176444 |
| 0.000386416 | 0.013393136 |
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| 0.000398982 | 0.01382655 |
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| 0.000424115 | 0.014693598 |
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| 0.000436681 | 0.015127294 |
| 0.000442965 | 0.015344199 |
| 0.000449248 | 0.015561148 |
| 0.000455531 | 0.015778146 |
| 0.000461814 | 0.015995196 |
| 0.000468097 | 0.016212304 |
| 0.00047438 | 0.016429473 |
| 0.000480664 | 0.01664671 |
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| 0.00049323 | 0.017081404 |
| 0.000499513 | 0.017298872 |
| 0.000505796 | 0.017516426 |
| 0.00051208 | 0.017734073 |
| 0.000518363 | 0.017951817 |
| 0.000524646 | 0.018169664 |
| 0.000530929 | 0.018387619 |
| 0.000537212 | 0.018605688 |
| 0.000543496 | 0.018823877 |
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| 0.000562345 | 0.01947922 |
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| 0.000587478 | 0.020355038 |
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| 0.000600044 | 0.020793926 |
| 0.000606327 | 0.021013636 |
| 0.000612611 | 0.021233532 |
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| 0.000644026 | 0.022336026 |
| 0.00065031 | 0.022557172 |
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| 0.000669159 | 0.023222024 |
| 0.000675442 | 0.023444134 |
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| 0.000688009 | 0.023889131 |
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| 0.000706858 | 0.024558671 |
| 0.000713142 | 0.024782421 |
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| 0.000725708 | 0.025230817 |
| 0.000731991 | 0.025455474 |
| 0.000738274 | 0.025680447 |
| 0.000744557 | 0.025905741 |
| 0.000750841 | 0.026131362 |
| 0.000757124 | 0.026357317 |

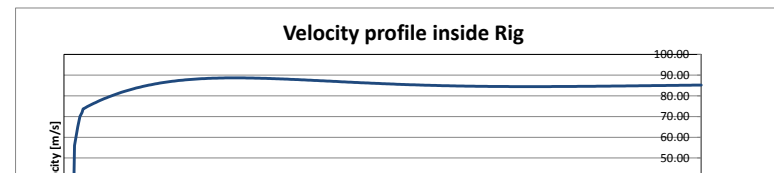
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|-----|-----------|
| 122 | 86.897877 |
| 123 | 86.911666 |
| 124 | 86.925092 |
| 125 | 86.938131 |
| 126 | 86.950757 |
| 127 | 86.962945 |
| 128 | 86.974669 |
| 129 | 86.985901 |
| 130 | 86.996613 |
| 131 | 87.006777 |
| 132 | 87.016363 |
| 133 | 87.025340 |
| 134 | 87.033676 |
| 135 | 87.041340 |
| 136 | 87.048298 |
| 137 | 87.054516 |
| 138 | 87.059958 |
| 139 | 87.064589 |
| 140 | 87.068371 |
| 141 | 87.071267 |
| 142 | 87.073238 |
| 143 | 87.074243 |
| 144 | 87.074241 |
| 145 | 87.073190 |
| 146 | 87.071048 |
| 147 | 87.067769 |
| 148 | 87.063309 |
| 149 | 87.057621 |
| 150 | 87.050658 |
| 151 | 87.042370 |
| 152 | 87.032709 |
| 153 | 87.021623 |
| 154 | 87.009060 |
| 155 | 86.994967 |
| 156 | 86.979289 |
| 157 | 86.961970 |
| 158 | 86.942954 |
| 159 | 86.922181 |
| 160 | 86.899594 |
| 161 | 86.875130 |
| 162 | 86.848727 |
| 163 | 86.820323 |
| 164 | 86.789852 |
| 165 | 86.757248 |
| 166 | 86.722444 |
| 167 | 86.685370 |
| 168 | 86.645957 |
| 169 | 86.604132 |
| 170 | 86.559823 |
| 171 | 86.512954 |
| 172 | 86.463450 |
| 173 | 86.411233 |
| 174 | 86.356224 |
| 175 | 86.298342 |
| 176 | 86.237504 |
| 177 | 86.173628 |
| 178 | 86.106628 |
| 179 | 86.036416 |
| 180 | 85.962905 |
| 181 | 85.886003 |
| 182 | 85.805619 |
| 183 | 85.721660 |
| 184 | 85.634031 |
| 185 | 85.542633 |
| 186 | 85.447369 |
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| 0.001818982 | 0.055370364 |
| 0.001825265 | 0.055142985 |
| 0.000914989 | 0.027010471 |
| 0.00183469 | 0.052655606 |
| 0.001840973 | 0.049061938 |
| 0.002773241 | 0.063673611 |
| 0.001856681 | 0 |

