



# THE RIPTIDE FLOW TESTING SYSTEM™



| PSI | 1.125" | 1.75" | 2.5"  | PSI | 1.125" | 1.75" | 2.5"   | PSI | 1.125" | 1.75" | 2.5"   |
|-----|--------|-------|-------|-----|--------|-------|--------|-----|--------|-------|--------|
| 1   | -      | -     | -     | 51  | 178.8  | 456.2 | 882.0  | 101 | 251.6  | 642.0 | 1241.1 |
| 2   | -      | -     | -     | 52  | 180.5  | 460.7 | 890.6  | 102 | 252.8  | 645.2 | 1247.3 |
| 3   | -      | -     | -     | 53  | 182.2  | 465.1 | 899.1  | 103 | 254.1  | 648.3 | 1253.4 |
| 4   | -      | -     | -     | 54  | 184.0  | 469.4 | 907.5  | 104 | 255.3  | 651.5 | 1259.4 |
| 5   | -      | -     | -     | 55  | 185.7  | 473.8 | 915.9  | 105 | 256.5  | 654.6 | 1265.5 |
| 6   | -      | -     | -     | 56  | 187.3  | 478.1 | 924.2  | 106 | 257.7  | 657.7 | 1271.5 |
| 7   | -      | -     | -     | 57  | 189.0  | 482.3 | 932.4  | 107 | 259.0  | 660.8 | 1277.5 |
| 8   | -      | -     | -     | 58  | 190.7  | 486.5 | 940.5  | 108 | 260.2  | 663.9 | 1283.4 |
| 9   | -      | -     | -     | 59  | 192.3  | 490.7 | 948.6  | 109 | 261.4  | 667.0 | 1289.4 |
| 10  | 79.2   | -     | -     | 60  | 193.9  | 494.8 | 956.6  | 110 | 262.6  | 670.0 | 1295.3 |
| 11  | 83.0   | -     | -     | 61  | 195.5  | 498.9 | 964.6  | 111 | 263.7  | 673.0 | 1301.1 |
| 12  | 86.7   | -     | -     | 62  | 197.1  | 503.0 | 972.4  | 112 | 264.9  | 676.1 | 1307.0 |
| 13  | 90.3   | -     | -     | 63  | 198.7  | 507.1 | 980.2  | 113 | 266.1  | 679.1 | 1312.8 |
| 14  | 93.7   | -     | -     | 64  | 200.3  | 511.1 | 988.0  | 114 | 267.3  | 682.1 | 1318.6 |
| 15  | 97.0   | -     | -     | 65  | 201.8  | 515.0 | 995.7  | 115 | 268.5  | 685.1 | 1324.4 |
| 16  | 100.1  | 255.5 | 494.0 | 66  | 203.4  | 519.0 | 1003.3 | 116 | 269.6  | 688.0 | -      |
| 17  | 103.2  | 263.4 | 509.2 | 67  | 204.9  | 522.9 | 1010.9 | 117 | 270.8  | 691.0 | -      |
| 18  | 106.2  | 271.0 | 524.0 | 68  | 206.4  | 526.8 | 1018.4 | 118 | 271.9  | 693.9 | -      |
| 19  | 109.1  | 278.5 | 538.3 | 69  | 207.9  | 530.6 | 1025.9 | 119 | 273.1  | 696.9 | -      |
| 20  | 112.0  | 285.7 | 552.3 | 70  | 209.4  | 534.5 | 1033.3 | 120 | 274.2  | 699.8 | -      |
| 21  | 114.7  | 292.7 | 565.9 | 71  | 210.9  | 538.3 | 1040.6 | 121 | 275.4  | 702.7 | -      |
| 22  | 117.4  | 299.6 | 579.3 | 72  | 212.4  | 542.1 | 1047.9 | 122 | 276.5  | 705.6 | -      |
| 23  | 120.1  | 306.4 | 592.3 | 73  | 213.9  | 545.8 | 1055.2 | 123 | 277.6  | 708.5 | -      |
| 24  | 122.6  | 313.0 | 605.0 | 74  | 215.4  | 549.5 | 1062.4 | 124 | 278.8  | 711.4 | -      |
| 25  | 125.2  | 319.4 | 617.5 | 75  | 216.8  | 553.2 | 1069.5 | 125 | 279.9  | 714.2 | -      |
| 26  | 127.6  | 325.7 | 629.7 | 76  | 218.2  | 556.9 | 1076.6 | 126 | 281.0  | 717.1 | -      |
| 27  | 130.1  | 331.9 | 641.7 | 77  | 219.7  | 560.6 | 1083.7 | 127 | 282.1  | 719.9 | -      |
| 28  | 132.5  | 338.0 | 653.5 | 78  | 221.1  | 564.2 | 1090.7 | 128 | 283.2  | 722.7 | -      |
| 29  | 134.8  | 344.0 | 665.1 | 79  | 222.5  | 567.8 | 1097.7 | 129 | 284.3  | 725.6 | -      |
| 30  | 137.1  | 349.9 | 676.4 | 80  | 223.9  | 571.4 | 1104.6 | 130 | 285.4  | 728.4 | -      |
| 31  | 139.4  | 355.7 | 687.6 | 81  | 225.3  | 574.9 | 1111.5 | 131 | 286.5  | 731.2 | -      |
| 32  | 141.6  | 361.4 | 698.6 | 82  | 226.7  | 578.5 | 1118.3 | 132 | 287.6  | 734.0 | -      |
| 33  | 143.8  | 367.0 | 709.4 | 83  | 228.1  | 582.0 | 1125.1 | 133 | 288.7  | 736.7 | -      |
| 34  | 146.0  | 372.5 | 720.1 | 84  | 229.4  | 585.5 | 1131.9 | 134 | 289.8  | 739.5 | -      |
| 35  | 148.1  | 377.9 | 730.6 | 85  | 230.8  | 589.0 | 1138.6 | 135 | 290.9  | 742.2 | -      |
| 36  | 150.2  | 383.3 | 741.0 | 86  | 232.2  | 592.4 | 1145.3 | 136 | 291.9  | 745.0 | -      |
| 37  | 152.3  | 388.6 | 751.2 | 87  | 233.5  | 595.9 | 1151.9 | 137 | 293.0  | -     | -      |
| 38  | 154.3  | 393.8 | 761.3 | 88  | 234.8  | 599.3 | 1158.5 | 138 | 294.1  | -     | -      |
| 39  | 156.3  | 398.9 | 771.2 | 89  | 236.2  | 602.7 | 1165.1 | 139 | 295.1  | -     | -      |
| 40  | 158.3  | 404.0 | 781.1 | 90  | 237.5  | 606.0 | 1171.6 | 140 | 296.2  | -     | -      |
| 41  | 160.3  | 409.0 | 790.8 | 91  | 238.8  | 609.4 | 1178.1 | 141 | 297.3  | -     | -      |
| 42  | 162.2  | 414.0 | 800.4 | 92  | 240.1  | 612.7 | 1184.6 | 142 | 298.3  | -     | -      |
| 43  | 164.2  | 418.9 | 809.8 | 93  | 241.4  | 616.1 | 1191.0 | 143 | 299.4  | -     | -      |
| 44  | 166.1  | 423.7 | 819.2 | 94  | 242.7  | 619.4 | 1197.4 | 144 | 300.4  | -     | -      |
| 45  | 167.9  | 428.5 | 828.5 | 95  | 244.0  | 622.6 | 1203.7 | 145 | 301.4  | -     | -      |
| 46  | 169.8  | 433.3 | 837.6 | 96  | 245.3  | 625.9 | 1210.0 | 146 | -      | -     | -      |
| 47  | 171.6  | 438.0 | 846.7 | 97  | 246.6  | 629.2 | 1216.3 | 147 | -      | -     | -      |
| 48  | 173.4  | 442.6 | 855.6 | 98  | 247.8  | 632.4 | 1222.6 | 148 | -      | -     | -      |
| 49  | 175.2  | 447.2 | 864.5 | 99  | 249.1  | 635.6 | 1228.8 | 149 | -      | -     | -      |
| 50  | 177.0  | 451.7 | 873.3 | 100 | 250.3  | 638.8 | 1235.0 | 150 | -      | -     | -      |

All laboratory instrumentation used in the creation of this chart is ISO 17025 traceable.

Readings were found to be accurate to within +/-2%.

| D (in) | AVERAGE C |
|--------|-----------|
| 1.125" | 0.6629    |
| 1.750" | 0.6990    |
| 2.493" | 0.6659    |

$$Q = 29.84 \times C \times D^2 \times \sqrt{P}$$

## 1.125"

Refer to the data in this column when operating The Riptide™ with a 1.125" Reduced Orifice Insert.

## 1.75"

Refer to the data in this column when operating The Riptide™ with a 1.75" Reduced Orifice Insert.

## 2.50"

Refer to the data in this column when operating The Riptide™ without a Reduced Orifice Insert.

## MULTI-STREAM OPERATION

Readings should be taken at each stream with each independent correlating GPM added together to determine the total volume flowing.



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USE OF THIS PRODUCT IS AT YOUR OWN RISK



# THE RIPTIDE FLOW TESTING SYSTEM™



| PSI | 3.25"  | 4"     | PSI | 3.25"  | 4"     |
|-----|--------|--------|-----|--------|--------|
| 1   | -      | -      | 51  | 1812.3 | 2481.7 |
| 2   | -      | -      | 52  | 1830.0 | 2505.9 |
| 3   | -      | -      | 53  | 1847.5 | 2529.9 |
| 4   | -      | -      | 54  | 1864.8 | 2553.7 |
| 5   | -      | -      | 55  | 1882.0 | 2577.2 |
| 6   | -      | -      | 56  | 1899.0 | 2600.5 |
| 7   | -      | -      | 57  | 1915.9 | 2623.6 |
| 8   | -      | -      | 58  | 1932.7 | 2646.6 |
| 9   | -      | -      | 59  | 1949.2 | 2669.3 |
| 10  | -      | -      | 60  | 1965.7 | 2691.8 |
| 11  | 841.7  | 1152.6 | 61  | 1982.0 | 2714.1 |
| 12  | 879.1  | 1203.8 | 62  | 1998.2 | 2736.3 |
| 13  | 915.0  | 1253.0 | 63  | 2014.2 | 2758.3 |
| 14  | 949.5  | 1300.3 | 64  | 2030.2 | 2780.1 |
| 15  | 982.8  | 1345.9 | 65  | 2046.0 | 2801.7 |
| 16  | 1015.1 | 1390.0 | 66  | 2061.6 | 2823.2 |
| 17  | 1046.3 | 1432.8 | 67  | 2077.2 | 2844.5 |
| 18  | 1076.7 | 1474.4 | 68  | 2092.6 | 2865.6 |
| 19  | 1106.2 | 1514.8 | 69  | 2108.0 | 2886.6 |
| 20  | 1134.9 | 1554.1 | 70  | -      | 2907.5 |
| 21  | 1162.9 | 1592.5 | 71  | -      | 2928.2 |
| 22  | 1190.3 | 1630.0 | 72  | -      | -      |
| 23  | 1217.0 | 1666.6 | 73  | -      | -      |
| 24  | 1243.2 | 1702.4 | 74  | -      | -      |
| 25  | 1268.8 | 1737.6 | 75  | -      | -      |
| 26  | 1294.0 | 1772.0 | 76  | -      | -      |
| 27  | 1318.6 | 1805.7 | 77  | -      | -      |
| 28  | 1342.8 | 1838.9 | 78  | -      | -      |
| 29  | 1366.6 | 1871.4 | 79  | -      | -      |
| 30  | 1390.0 | 1903.4 | 80  | -      | -      |
| 31  | 1412.9 | 1934.9 | 81  | -      | -      |
| 32  | 1435.5 | 1965.8 | 82  | -      | -      |
| 33  | 1457.8 | 1996.3 | 83  | -      | -      |
| 34  | 1479.7 | 2026.3 | 84  | -      | -      |
| 35  | 1501.3 | 2055.9 | 85  | -      | -      |
| 36  | 1522.6 | 2085.1 | 86  | -      | -      |
| 37  | 1543.6 | 2113.8 | 87  | -      | -      |
| 38  | 1564.3 | 2142.2 | 88  | -      | -      |
| 39  | 1584.8 | 2170.2 | 89  | -      | -      |
| 40  | 1605.0 | 2197.9 | 90  | -      | -      |
| 41  | 1624.9 | 2225.2 | 91  | -      | -      |
| 42  | 1644.6 | 2252.1 | 92  | -      | -      |
| 43  | 1664.1 | 2278.8 | 93  | -      | -      |
| 44  | 1683.3 | 2305.1 | 94  | -      | -      |
| 45  | 1702.3 | 2331.2 | 95  | -      | -      |
| 46  | 1721.1 | 2356.9 | 96  | -      | -      |
| 47  | 1739.8 | 2382.4 | 97  | -      | -      |
| 48  | 1758.2 | 2407.6 | 98  | -      | -      |
| 49  | 1776.4 | 2432.6 | 99  | -      | -      |
| 50  | 1794.4 | 2457.3 | 100 | -      | -      |

All laboratory instrumentation used in the creation of this chart is ISO 17025 traceable.

Readings were found to be accurate to within +/-2%.

| D (in) | AVERAGE C |
|--------|-----------|
| 3.250" | 0.8051    |
| 4.000" | 0.7279    |

$$Q = 29.84 \times C \times D^2 \times \sqrt{P}$$

## 3.25"

Refer to the data in this column when operating The Riptide™ with a 3.25" Reduced Orifice Insert.

## 4"

Refer to the data in this column when operating The Riptide™ without a Reduced Orifice Insert.

## MULTI-STREAM OPERATION

Readings should be taken at each stream with each independent correlating GPM added together to determine the total volume flowing.



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