



## Hose Reel Sprinkler Performance Chart

### 1100IRL/500M

| PE HOSE: O.D. mm |                 |                  | FIELD-PIPE LENGTH MT |            |          |                       |                            | SPEED MT/H |                | SPEED MT/H |                | SPEED MT/H |                | SPEED MT/H |                | SPEED MT/H |                | SPEED MT/H |                | SPEED MT/H |                | SPEED MT/H |                | SPEED MT/H |                |         |                |
|------------------|-----------------|------------------|----------------------|------------|----------|-----------------------|----------------------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|------------|----------------|---------|----------------|
| 110              |                 |                  | 500                  |            |          |                       |                            | 10         |                | 20         |                | 30         |                | 40         |                | 50         |                | 60         |                | 70         |                | 80         |                | 90         |                | 100     |                |
| nozzle diam mm   | nozzle pres bar | theoric throw mt | Flow mc/h            | Flow l/min | Flow l/s | Pull to pull dist. mt | Irrigated area per pull Ha | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm | inlet pres bar |
| 22               | 2               | 28.32            | 25.7                 | 429        | 7        | 45.3                  | 2.27                       | 57         | 2.9            | 28         | 3.0            | 19         | 3.2            | 14         | 3.4            | 11         | 3.5            | 9          | 3.7            | 8          | 3.9            | 7          | 4.0            | 6          | 4.2            | 6       | 4.4            |
| 22               | 3.0             | 34.68            | 31.5                 | 525        | 8.8      | 55.5                  | 2.77                       | 57         | 4.2            | 28         | 4.3            | 19         | 4.5            | 14         | 4.7            | 11         | 4.8            | 9          | 5.0            | 8          | 5.2            | 7          | 5.3            | 6          | 5.5            | 6       | 5.7            |
| 22               | 4               | 40.05            | 36.4                 | 606        | 10.1     | 64.1                  | 3.20                       | 57         | 5.5            | 28         | 5.6            | 19         | 5.8            | 14         | 6.0            | 11         | 6.1            | 9          | 6.3            | 8          | 6.5            | 7          | 6.6            | 6          | 6.8            | 6       | 7.0            |
| 22               | 5               | 44.77            | 40.7                 | 678        | 11.3     | 71.6                  | 3.58                       | 57         | 6.8            | 28         | 6.9            | 19         | 7.1            | 14         | 7.3            | 11         | 7.4            | 9          | 7.6            | 8          | 7.8            | 7          | 7.9            | 6          | 8.1            | 6       | 8.3            |
| 22               | 6               | 49.05            | 44.6                 | 743        | 12.4     | 78.5                  | 3.92                       | 57         | 8.1            | 28         | 8.2            | 19         | 8.4            | 14         | 8.6            | 11         | 8.7            | 9          | 8.9            | 8          | 9.1            | 7          | 9.2            | 6          | 9.4            | 6       | 9.6            |
|                  |                 |                  |                      |            |          |                       |                            |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |         |                |
| 24               | 2               | 29.58            | 30.6                 | 510        | 8.5      | 47.3                  | 2.37                       | 65         | 3.1            | 32         | 3.3            | 22         | 3.5            | 16         | 3.6            | 13         | 3.8            | 11         | 4.0            | 9          | 4.1            | 8          | 4.3            | 7          | 4.5            | 6       | 4.6            |
| 24               | 3.0             | 36.22            | 37.5                 | 625        | 10.4     | 58.0                  | 2.90                       | 65         | 4.6            | 32         | 4.7            | 22         | 4.9            | 16         | 5.1            | 13         | 5.2            | 11         | 5.4            | 9          | 5.6            | 8          | 5.7            | 7          | 5.9            | 6       | 6.1            |
| 24               | 4               | 41.83            | 43.3                 | 722        | 12.0     | 66.9                  | 3.35                       | 65         | 6.0            | 32         | 6.1            | 22         | 6.3            | 16         | 6.5            | 13         | 6.6            | 11         | 6.8            | 9          | 7.0            | 8          | 7.1            | 7          | 7.3            | 6       | 7.5            |
| 24               | 5               | 46.77            | 48.4                 | 807        | 13.4     | 74.8                  | 3.74                       | 65         | 7.4            | 32         | 7.6            | 22         | 7.7            | 16         | 7.9            | 13         | 8.1            | 11         | 8.2            | 9          | 8.4            | 8          | 8.6            | 7          | 8.7            | 6       | 8.9            |
| 24               | 6               | 51.23            | 53.0                 | 884        | 14.7     | 82.0                  | 4.10                       | 65         | 8.8            | 32         | 9.0            | 22         | 9.1            | 16         | 9.3            | 13         | 9.5            | 11         | 9.6            | 9          | 9.8            | 8          | 10.0           | 7          | 10.1           | 6       | 10.3           |
|                  |                 |                  |                      |            |          |                       |                            |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |         |                |
| 26               | 2               | 30.78            | 35.9                 | 599        | 10.0     | 49.3                  | 2.46                       | 73         | 3.4            | 36         | 3.6            | 24         | 3.8            | 18         | 3.9            | 15         | 4.1            | 12         | 4.3            | 10         | 4.4            | 9          | 4.6            | 8          | 4.8            | 7       | 4.9            |
| 26               | 3.0             | 37.70            | 44.0                 | 733        | 12.2     | 60.3                  | 3.02                       | 73         | 5.0            | 36         | 5.2            | 24         | 5.4            | 18         | 5.5            | 15         | 5.7            | 12         | 5.9            | 10         | 6.0            | 9          | 6.2            | 8          | 6.4            | 7       | 6.5            |
| 26               | 4               | 43.54            | 50.8                 | 847        | 14.1     | 69.7                  | 3.48                       | 73         | 6.6            | 36         | 6.8            | 24         | 6.9            | 18         | 7.1            | 15         | 7.3            | 12         | 7.4            | 10         | 7.6            | 9          | 7.8            | 8          | 7.9            | 7       | 8.1            |
| 26               | 5               | 48.67            | 56.8                 | 947        | 15.8     | 77.9                  | 3.89                       | 73         | 8.2            | 36         | 8.3            | 24         | 8.5            | 18         | 8.7            | 15         | 8.8            | 12         | 9.0            | 10         | 9.2            | 9          | 9.3            | 8          | 9.5            | 7       | 9.7            |
| 26               | 6               | 53.32            | 62.2                 | 1037       | 17.3     | 85.3                  | 4.27                       | 73         | 9.7            | 36         | 9.9            | 24         | 10.0           | 18         | 10.2           | 15         | 10.4           | 12         | 10.5           | 10         | 10.7           | 9          | 10.9           | 8          | 11.0           | 7       | 11.2           |
|                  |                 |                  |                      |            |          |                       |                            |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |            |                |         |                |
| 28               | 2               | 31.95            | 41.7                 | 695        | 11.6     | 51.1                  | 2.56                       | 82         | 3.9            | 41         | 4.0            | 27         | 4.2            | 20         | 4.4            | 16         | 4.5            | 14         | 4.7            | 12         | 4.9            | 10         | 5.0            | 9          | 5.2            | 8       | 5.4            |
| 28               | 3.0             | 39.13            | 51.0                 | 851        | 14.2     | 62.6                  | 3.13                       | 82         | 5.6            | 41         | 5.8            | 27         | 6.0            | 20         | 6.1            | 16         | 6.3            | 14         | 6.5            | 12         | 6.6            | 10         | 6.8            | 9          | 7.0            | 8       | 7.1            |
| 28               | 4               | 45.18            | 58.9                 | 982        | 16.4     | 72.3                  | 3.61                       | 82         | 7.4            | 41         | 7.5            | 27         | 7.7            | 20         | 7.9            | 16         | 8.0            | 14         | 8.2            | 12         | 8.4            | 10         | 8.5            | 9          | 8.7            | 8       | 8.9            |
| 28               | 5               | 50.51            | 65.9                 | 1098       | 18.3     | 80.8                  | 4.04                       | 82         | 9.1            | 41         | 9.3            | 27         | 9.4            | 20         | 9.6            | 16         | 9.8            | 14         | 9.9            | 12         | 10.1           | 10         | 10.3           | 9          | 10.4           | 8       | 10.6           |

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| 110              |                 |                  | 500                  |            |          |                       |                            | 10         |                | 20         |                | 30         |                | 40         |                | 50         |                | 60         |                | 70         |                | 80         |                | 90         |                | 100     |                |
| nozzle diam mm   | nozzle pres bar | theoric throw mt | Flow mc/h            | Flow l/min | Flow l/s | Pull to pull dist. mt | Irrigated area per pull Ha | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm    | inlet pres bar | rate mm | inlet pres bar |
| 28               | 6               | 55.33            | 72.2                 | 1203       | 20.0     | 88.5                  | 4.43                       | 82         | 10.8           | 41         | 11.0           | 27         | 11.2           | 20         | 11.3           | 16         | 11.5           | 14         | 11.7           | 12         | 11.8           | 10         | 12.0           | 9          | 12.2           | 8       | 12.3           |
| 30               | 2               | 33.07            | 47.8                 | 797        | 13.3     | 52.9                  | 2.65                       | 90         | 4.3            | 45         | 4.5            | 30         | 4.7            | 23         | 4.8            | 18         | 5.0            | 15         | 5.2            | 13         | 5.3            | 11         | 5.5            | 10         | 5.7            | 9       | 5.8            |
| 30               | 3               | 40.50            | 58.6                 | 977        | 16.3     | 64.8                  | 3.24                       | 90         | 6.3            | 45         | 6.5            | 30         | 6.7            | 23         | 6.8            | 18         | 7.0            | 15         | 7.2            | 13         | 7.3            | 11         | 7.5            | 10         | 7.7            | 9       | 7.8            |
| 30               | 4               | 46.77            | 67.7                 | 1128       | 18.8     | 74.8                  | 3.74                       | 90         | 8.3            | 45         | 8.5            | 30         | 8.6            | 23         | 8.8            | 18         | 9.0            | 15         | 9.1            | 13         | 9.3            | 11         | 9.5            | 10         | 9.6            | 9       | 9.8            |
| 30               | 5               | 52.29            | 75.6                 | 1261       | 21.0     | 83.7                  | 4.18                       | 90         | 10.3           | 45         | 10.4           | 30         | 10.6           | 23         | 10.8           | 18         | 10.9           | 15         | 11.1           | 13         | 11.3           | 11         | 11.4           | 10         | 11.6           | 9       | 11.8           |
| 30               | 6               | 57.28            | 82.9                 | 1381       | 23.0     | 91.6                  | 4.58                       | 90         | 12.2           | 45         | 12.4           | 30         | 12.5           | 23         | 12.7           | 18         | 12.9           | 15         | 13.0           | 13         | 13.2           | 11         | 13.4           | 10         | 13.5           | 9       | 13.7           |
| 32               | 3               | 41.83            | 66.7                 | 1111       | 18.5     | 66.9                  | 3.35                       | 100        | 7.2            | 50         | 7.4            | 33         | 7.5            | 25         | 7.7            | 20         | 7.9            | 17         | 8.0            | 14         | 8.2            | 12         | 8.4            | 11         | 8.5            | 10      | 8.7            |
| 32               | 4               | 48.30            | 77.0                 | 1283       | 21.4     | 77.3                  | 3.86                       | 100        | 9.4            | 50         | 9.6            | 33         | 9.8            | 25         | 9.9            | 20         | 10.1           | 17         | 10.3           | 14         | 10.4           | 12         | 10.6           | 11         | 10.8           | 10      | 10.9           |
| 32               | 5               | 54.00            | 86.1                 | 1434       | 23.9     | 86.4                  | 4.32                       | 100        | 11.6           | 50         | 11.8           | 33         | 12.0           | 25         | 12.1           | 20         | 12.3           | 17         | 12.5           | 14         | 12.6           | 12         | 12.8           | 11         | 13.0           | 10      | 13.1           |
| 32               | 6               | 59.15            | 94.3                 | 1571       | 26.2     | 94.6                  | 4.73                       | 100        | 13.8           | 50         | 14.0           | 33         | 14.2           | 25         | 14.3           | 20         | 14.5           | 17         | 14.7           | 14         | 14.8           | 12         | 15.0           | 11         | 15.2           | 10      | 15.3           |
| 32               | 7               | 63.89            | 101.8                | 1697       | 28.3     | 102.2                 | 5.11                       | 100        | 16.0           | 50         | 16.2           | 33         | 16.3           | 25         | 16.5           | 20         | 16.7           | 17         | 16.8           | 14         | 17.0           | 12         | 17.2           | 11         | 17.3           | 10      | 17.5           |