

## M20VH-PM

1/2" 13mm Full Circle, Brass, Wedge Drive Impact Sprinkler

- Patented, self-flushing wedge drive
- Durable brass die-cast arm
- Stainless steel springs and fulcrum pin

### Features

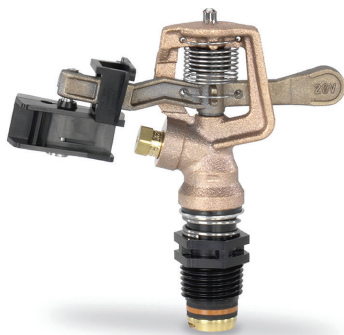
- Chemically resistant washers

### Benefits

- Wedge drive runs on smaller nozzles and lower pressures
- Self-flushing design reduces wear from grit
- Corrosion and grit resistant
- Built to last
- Five-year Customer Satisfaction Policy

### Specifications

- Bearing: 1/2" (13mm) Male NPT, Plastic
- Trajectory Angle: 15°
- Operating Range: 25-50 psi (1.7-3.5 bar)
- Flow Rate: 0.56-2.45 gpm (0.13-0.56 m³/h)
- Radius: 25-35 ft. (7.8-10.8 meters)
- Nozzle Port: 1/8" Female NPT



### Straight Bore Nozzle (SBN-1) Performance\*

| psi @ Nozzle | NOZZLE SIZE (Stream Height: 3.5 ft.) |            |            |            |            |            |            |            |            |            |
|--------------|--------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|              | 1/16"                                |            | 51 DRILL   |            | 5/64"      |            | 3/32"      |            | 7/64"      |            |
|              | Rad. (ft.)                           | Flow (gpm) | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) | Rad. (ft.) | Flow (gpm) |
| 25           | 25                                   | 0.56       | 26         | 0.65       | 27         | 0.88       | 29         | 1.27       | 31         | 1.73       |
| 30           | 26                                   | 0.62       | 27         | 0.71       | 28         | 0.97       | 30         | 1.39       | 32         | 1.90       |
| 35           | 27                                   | 0.66       | 28         | 0.77       | 29         | 1.05       | 31         | 1.50       | 33         | 2.05       |
| 40           | 28                                   | 0.72       | 28         | 0.83       | 30         | 1.12       | 32         | 1.61       | 34         | 2.19       |
| 45           | 29                                   | 0.75       | 29         | 0.87       | 31         | 1.19       | 33         | 1.71       | 35         | 2.32       |
| 50           | 29                                   | 0.80       | 30         | 0.92       | 32         | 1.25       | 33         | 1.80       | 35         | 2.45       |

### Straight Bore Nozzle (SBN-1) Performance\*

### METRIC

| bar @ Nozzle | NOZZLE SIZE (Stream Height: 1.1m) |            |             |                    |            |             |                 |            |             |                 |            |             |                 |            |             |
|--------------|-----------------------------------|------------|-------------|--------------------|------------|-------------|-----------------|------------|-------------|-----------------|------------|-------------|-----------------|------------|-------------|
|              | 1.59 mm (1/16")                   |            |             | 1.70 mm (51 Drill) |            |             | 1.98 mm (5/64") |            |             | 2.38 mm (3/32") |            |             | 2.78 mm (7/64") |            |             |
|              | Rad. (m)                          | Flow (l/s) | Flow (m³/h) | Rad. (m)           | Flow (l/s) | Flow (m³/h) | Rad. (m)        | Flow (l/s) | Flow (m³/h) | Rad. (m)        | Flow (l/s) | Flow (m³/h) | Rad. (m)        | Flow (l/s) | Flow (m³/h) |
| 1.7          | 7.8                               | 0.04       | 0.13        | 7.9                | 0.04       | 0.15        | 8.4             | 0.06       | 0.20        | 9.0             | 0.08       | 0.29        | 9.4             | 0.11       | 0.39        |
| 2.0          | 8.0                               | 0.04       | 0.14        | 8.2                | 0.04       | 0.16        | 8.6             | 0.06       | 0.22        | 9.2             | 0.09       | 0.31        | 9.7             | 0.12       | 0.42        |
| 2.5          | 8.4                               | 0.04       | 0.15        | 8.6                | 0.05       | 0.18        | 9.1             | 0.07       | 0.24        | 9.7             | 0.10       | 0.35        | 10.1            | 0.13       | 0.47        |
| 3.0          | 8.7                               | 0.05       | 0.17        | 8.9                | 0.05       | 0.19        | 9.4             | 0.07       | 0.27        | 10.0            | 0.11       | 0.38        | 10.6            | 0.14       | 0.52        |
| 3.5          | 9.0                               | 0.05       | 0.18        | 9.1                | 0.06       | 0.21        | 9.8             | 0.08       | 0.28        | 10.2            | 0.11       | 0.41        | 10.8            | 0.15       | 0.56        |

\* Nozzles must be purchased separately. See Chart below.

### Part Numbers and Ordering Information

|                          |               |
|--------------------------|---------------|
| Sprinkler Only           |               |
| Sprinkler without Nozzle | <b>A05980</b> |

| Nozzle Only                |              |                  | XX = Nozzle Size |          |           |         |         |         |  |
|----------------------------|--------------|------------------|------------------|----------|-----------|---------|---------|---------|--|
| U.S. Standard              |              |                  | 1/16"            | 51 DRILL | 5/64"     | 3/32"   | 7/64"   | 1/8"    |  |
| Metric                     |              |                  | 1.59 mm          | 1.70mm   | 1.98 mm   | 2.38 mm | 2.78 mm | 3.18 mm |  |
| Brass Straight Bore Nozzle | <b>SBN-1</b> | <b>105780-XX</b> | 04               | 51       | <b>05</b> | 06      | 07      | —       |  |

Bold nozzle size number denotes the most common nozzle choice.