



## SPRAY CHARACTERISTICS

- Uniform distribution of droplets in a wide angle solid cone square shaped pattern.
- Droplet size is larger than in hollow cone nozzles of equal capacity.
- Impact of spray is generally greater with narrower spray angles, assuming the same flow rate. Pressure increases affect spray angle.

## CONSTRUCTION AND MATERIALS

- One piece body with pressed-in, cross-milled core which is removable.
- Core imparts the necessary swirl to produce a solid cone spray pattern.
- Hexagon body for easy installation eliminates distortion of orifice during installation.
- Brass and Stainless Steel are standard.
- Other materials available to special order.

## ORDER EXAMPLE

1/2" BTF (Female) 59 Brass.

3/4" BTM (Male) 98 Stainless Steel.

## DIMENSIONS AND WEIGHTS

| Thread Size | Nozzle Type | Dimensions (mm) |      |       | Weight (g) |
|-------------|-------------|-----------------|------|-------|------------|
|             |             | A               | B    | C Hex |            |
| 1/8"        | BTM         | 17,5            | 9,6  | 11,3  | 10         |
| 1/8"        | BTF         | 25,4            | 13,5 | 15,3  | 21         |
| 1/4"        | BTM         | 24,5            | 13,0 | 15,3  | 24         |
| 1/4"        | BTF         | 27,8            | 12,7 | 18,0  | 35         |
| 3/8"        | BTM         | 25,5            | 14,0 | 18,0  | 35         |
| 3/8"        | BTF         | 38,9            | 21,1 | 20,8  | 58         |
| 1/2"        | BTM         | 32,0            | 16,1 | 25,6  | 75         |
| 1/2"        | BTF         | 50,0            | 28,3 | 25,6  | 118        |
| 3/4"        | BTM         | 36,0            | 19,0 | 28,0  | 115        |
| 3/4"        | BTF         | 62,7            | 31,5 | 31,8  | 215        |
| 1"          | BTM         | 50,0            | 28,5 | 38,0  | 290        |
| 1"          | BTF         | 81,0            | 51,0 | 38,0  | 330        |

## CAPACITY CHART

Maximum Recommended Pressure: 35 Bar.G.

| NOZZLE NUMBER |         | BSPT THREAD SIZE |     |     |     |     |   |       | FLOW RATE IN LITRES/MIN AT Bar.G. |       |       |       |       |       |        |        |        |     | SPRAY ANGLES (°) AT Bar.G. |     |  |
|---------------|---------|------------------|-----|-----|-----|-----|---|-------|-----------------------------------|-------|-------|-------|-------|-------|--------|--------|--------|-----|----------------------------|-----|--|
| Female        | Male    | 1/8              | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 0,35  | 0,7                               | 1     | 1,5   | 2     | 3     | 4     | 6      | 7      | 8      | ,7  | 2                          | 6   |  |
| BTF 6         | BTM 6   |                  |     |     |     |     |   | 0,88  | 1,25                              | 1,50  | 1,88  | 2,18  | 2,65  | 2,87  | 3,41   | 3,54   | 3,76   | 110 | 100                        | 90  |  |
| BTF 8         | BTM 8   |                  |     |     |     |     |   | 1,30  | 1,86                              | 2,28  | 2,84  | 3,23  | 4,00  | 4,55  | 5,38   | 5,72   | 5,97   | 125 | 120                        | 100 |  |
| BTF 11        | BTM 11  |                  |     |     |     |     |   | 1,86  | 2,79                              | 3,23  | 3,86  | 4,31  | 5,15  | 5,45  | 6,73   | 7,43   | 7,70   | 115 | 120                        | 95  |  |
| BTF 15        | BTM 15  |                  |     |     |     |     |   | 2,60  | 3,67                              | 4,50  | 5,26  | 5,59  | 6,64  | 7,24  | 8,70   | 9,16   | 9,70   | 115 | 110                        | 90  |  |
| BTF 18        | BTM 18  |                  |     |     |     |     |   | 3,10  | 4,40                              | 5,39  | 6,30  | 6,70  | 7,96  | 8,68  | 10,43  | 10,98  | 11,63  | 120 | 120                        | 95  |  |
| BTF 22        | BTM 22  |                  |     |     |     |     |   | 3,95  | 5,58                              | 6,84  | 8,0   | 8,50  | 10,10 | 11,01 | 13,23  | 13,94  | 14,75  | 113 | 110                        | 90  |  |
| BTF 25        | BTM 25  |                  |     |     |     |     |   | 4,27  | 6,04                              | 7,24  | 8,43  | 9,32  | 11,01 | 12,32 | 14,65  | 15,76  | 16,26  | 120 | 120                        | 100 |  |
| BTF 32        | BTM 32  |                  |     |     |     |     |   | 5,90  | 7,70                              | 9,15  | 10,80 | 11,92 | 14,30 | 15,78 | 18,90  | 19,90  | 21,26  | 115 | 110                        | 85  |  |
| BTF 39        | BTM 39  |                  |     |     |     |     |   | 7,20  | 9,40                              | 11,15 | 13,14 | 14,52 | 17,40 | 19,20 | 23,00  | 24,25  | 25,90  | 120 | 120                        | 90  |  |
| BTF 46        | BTM 46  |                  |     |     |     |     |   | 8,13  | 11,62                             | 13,64 | 15,86 | 17,27 | 19,29 | 22,32 | 25,45  | 27,88  | 29,39  | 125 | 112                        | 90  |  |
| BTF 48        | BTM 48  |                  |     |     |     |     |   | 8,33  | 12,52                             | 15,25 | 16,87 | 18,18 | 23,13 | 24,54 | 29,80  | 32,52  | 34,34  | 125 | 120                        | 90  |  |
| BTF 59        | BTM 59  |                  |     |     |     |     |   | 9,29  | 13,23                             | 15,96 | 19,29 | 22,32 | 26,06 | 28,18 | 34,64  | 37,67  | 40,70  | 130 | 128                        | 100 |  |
| BTF 65        | BTM 65  |                  |     |     |     |     |   | 12,00 | 15,65                             | 18,60 | 21,92 | 24,21 | 29,00 | 32,05 | 38,37  | 40,40  | 43,20  | 115 | 110                        | 85  |  |
| BTF 73        | BTM 73  |                  |     |     |     |     |   | 13,50 | 17,60                             | 20,88 | 24,50 | 27,19 | 32,60 | 36,00 | 43,10  | 45,40  | 48,50  | 115 | 120                        | 90  |  |
| BTF 82        | BTM 82  |                  |     |     |     |     |   | 15,35 | 20,0                              | 23,74 | 27,98 | 30,91 | 37,07 | 40,91 | 48,99  | 51,61  | 55,15  | 115 | 112                        | 90  |  |
| BTF 94        | BTM 94  |                  |     |     |     |     |   | 16,77 | 22,32                             | 26,87 | 32,72 | 35,45 | 41,92 | 45,96 | 56,26  | 59,89  | 63,33  | 119 | 120                        | 91  |  |
| BTF 98        | BTM 98  |                  |     |     |     |     |   | 18,08 | 23,23                             | 27,78 | 34,24 | 37,27 | 44,34 | 50,00 | 59,59  | 64,54  | 67,87  | 112 | 120                        | 90  |  |
| BTF 136       | BTM 136 |                  |     |     |     |     |   | 24,14 | 35,25                             | 42,32 | 48,18 | 51,41 | 60,20 | 67,77 | 81,20  | 86,86  | 91,41  | 118 | 115                        | 75  |  |
| BTF 153       | BTM 153 |                  |     |     |     |     |   | 27,88 | 38,08                             | 46,97 | 53,93 | 57,97 | 67,47 | 76,36 | 91,30  | 98,07  | 108,07 | 125 | 120                        | 85  |  |
| BTF 200       | BTM 200 |                  |     |     |     |     |   | 29,69 | 42,32                             | 51,41 | 62,62 | 75,95 | 88,68 | 99,59 | 120,19 | 130,29 | 139,38 | 118 | 125                        | 90  |  |

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