

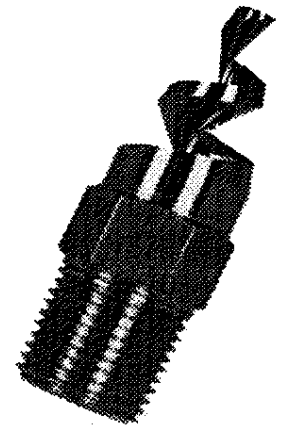
"YS" SERIES TWISTER™ NOZZLES

SPRAY CHARACTERISTICS:
Full (solid) cone style of spray with smaller droplets than conventional full cone nozzles.

CONSTRUCTION:
All models are machined from barstock. Standard materials of construction are brass, 303 stainless steel, 316 stainless steel, PVC, and Teflon®. Other materials may be available on request.

TYPICAL APPLICATIONS:
Washing and Rinsing
Gas Cooling
Chemical Processing
Cooling Sprays
Humidification
Many more

ADVANTAGES
Anti-clog design is easily inspected, cleaned, and serviced.
Much higher flowrates than conventional vane style design for the same pipe size.
Durable one-piece design has no internal vane to clog or wear out.



| Spray Angle | MODEL NUMBER | Pipe Size (NPT) | Orifice Dia. (inches) | CAPACITY (GPM) AT VARIOUS PRESSURES (psi) | | | | | | | | | | | | |
|-------------|--------------|-----------------|-----------------------|---|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| | | | | 5 psi | 7 psi | 10 psi | 20 psi | 30 psi | 40 psi | 60 psi | 80 psi | 100 psi | 200 psi | 300 psi | 400 psi | 500 psi |
| 60° | 1/4YS6007 | 1/4 | 0.087 | 0.49 | 0.59 | 0.70 | 0.99 | 1.21 | 1.40 | 1.71 | 1.98 | 2.2 | 3.1 | 3.8 | 4.4 | 4.9 |
| | 3/8YS6007 | 3/8 | 0.087 | 0.49 | 0.59 | 0.70 | 0.99 | 1.21 | 1.40 | 1.71 | 1.98 | 2.2 | 3.1 | 3.8 | 4.4 | 4.9 |
| | 1/4YS6013 | 1/4 | 0.119 | 0.92 | 1.09 | 1.30 | 1.84 | 2.3 | 2.6 | 3.2 | 3.7 | 4.1 | 5.8 | 7.1 | 8.2 | 9.2 |
| | 3/8YS6013 | 3/8 | 0.119 | 0.92 | 1.09 | 1.30 | 1.84 | 2.3 | 2.6 | 3.2 | 3.7 | 4.1 | 5.8 | 7.1 | 8.2 | 9.2 |
| | 3/8YS6020 | 3/8 | 0.147 | 1.41 | 1.67 | 2.0 | 2.8 | 3.5 | 4.0 | 4.9 | 5.7 | 6.3 | 8.9 | 11.0 | 12.6 | 14.1 |
| | 3/8YS6030 | 3/8 | 0.180 | 2.1 | 2.5 | 3.0 | 4.2 | 5.2 | 6.0 | 7.3 | 8.5 | 9.5 | 13.4 | 16.4 | 19.0 | 21.2 |
| | 3/8YS6040 | 3/8 | 0.208 | 2.8 | 3.3 | 4.0 | 5.7 | 6.9 | 8.0 | 9.8 | 11.3 | 12.6 | 17.9 | 21.9 | 25.3 | 28.3 |
| | 3/8YS6053 | 3/8 | 0.239 | 3.7 | 4.4 | 5.3 | 7.5 | 9.2 | 10.6 | 13.0 | 15.0 | 16.8 | 24 | 29 | 34 | 37 |
| | 3/8YS6082 | 3/8 | 0.298 | 5.8 | 6.9 | 8.2 | 11.6 | 14.2 | 16.4 | 20 | 23 | 26 | 37 | 45 | 52 | 58 |
| | 1/2YS60120 | 1/2 | 0.375 | 8.5 | 10.0 | 12.0 | 17.0 | 21 | 24 | 29 | 34 | 38 | 54 | 66 | 76 | 85 |
| 1/2YS60164 | 1/2 | 0.438 | 11.6 | 13.7 | 16.4 | 23 | 28 | 33 | 40 | 46 | 52 | 73 | 90 | 104 | 116 | |
| 90° | 1/4YS9007 | 1/4 | 0.087 | 0.64 | 0.75 | 0.90 | 1.27 | 1.56 | 1.80 | 2.2 | 2.5 | 2.8 | 4.0 | 4.9 | 5.7 | 6.4 |
| | 1/4YS9013 | 1/4 | 0.119 | 0.92 | 1.09 | 1.30 | 1.84 | 2.3 | 2.6 | 3.2 | 3.7 | 4.1 | 5.8 | 7.1 | 8.2 | 9.2 |
| | 1/4YS9020 | 1/4 | 0.147 | 1.41 | 1.67 | 2.0 | 2.8 | 3.5 | 4.0 | 4.9 | 5.7 | 6.3 | 8.9 | 11.0 | 12.6 | 14.1 |
| | 3/8YS9030 | 3/8 | 0.180 | 2.1 | 2.5 | 3.0 | 4.2 | 5.2 | 6.0 | 7.3 | 8.5 | 9.5 | 13.4 | 16.4 | 19.0 | 21 |
| | 3/8YS9040 | 3/8 | 0.208 | 2.8 | 3.3 | 4.0 | 5.7 | 6.9 | 8.0 | 9.8 | 11.3 | 12.6 | 17.9 | 22 | 25 | 28 |
| | 3/8YS9053 | 3/8 | 0.239 | 3.7 | 4.4 | 5.3 | 7.5 | 9.2 | 10.6 | 13.0 | 15.0 | 16.8 | 24 | 29 | 34 | 37 |
| | 3/8YS9082 | 3/8 | 0.298 | 5.8 | 6.9 | 8.2 | 11.6 | 14.2 | 16.4 | 20 | 23 | 26 | 37 | 45 | 52 | 58 |
| | 1/2YS90120 | 1/2 | 0.375 | 8.5 | 10.0 | 12.0 | 17.0 | 21 | 24 | 29 | 34 | 38 | 54 | 66 | 76 | 85 |
| | 1/2YS90164 | 1/2 | 0.438 | 11.6 | 13.7 | 16.4 | 23 | 28 | 33 | 40 | 46 | 52 | 73 | 90 | 104 | 116 |
| | 120° | 1/4YS12007 | 1/4 | 0.087 | 0.49 | 0.59 | 0.70 | 0.99 | 1.21 | 1.40 | 1.71 | 1.98 | 2.2 | 3.1 | 3.8 | 4.4 |
| 1/4YS12013 | | 1/4 | 0.119 | 0.92 | 1.09 | 1.30 | 1.84 | 2.3 | 2.6 | 3.2 | 3.7 | 4.1 | 5.8 | 7.1 | 8.2 | 9.2 |
| 1/4YS12020 | | 1/4 | 0.147 | 1.41 | 1.67 | 2.0 | 2.8 | 3.5 | 4.0 | 4.9 | 5.7 | 6.3 | 8.9 | 11.0 | 12.6 | 14.1 |
| 3/8YS12030 | | 3/8 | 0.180 | 2.1 | 2.5 | 3.0 | 4.2 | 5.2 | 6.0 | 7.3 | 8.5 | 9.5 | 13.4 | 16.4 | 19.0 | 21 |
| 3/8YS12040 | | 3/8 | 0.208 | 2.8 | 3.3 | 4.0 | 5.7 | 6.9 | 8.0 | 9.8 | 11.3 | 12.6 | 17.9 | 22 | 25 | 28 |
| 3/8YS12053 | | 3/8 | 0.239 | 3.7 | 4.4 | 5.3 | 7.5 | 9.2 | 10.6 | 13.0 | 15.0 | 16.8 | 24 | 29 | 34 | 37 |
| 3/8YS12082 | | 3/8 | 0.298 | 5.8 | 6.9 | 8.2 | 11.6 | 14.2 | 16.4 | 20 | 23 | 26 | 37 | 45 | 52 | 58 |
| 1/2YS120120 | | 1/2 | 0.375 | 8.5 | 10.0 | 12.0 | 17.0 | 21 | 24 | 29 | 34 | 38 | 54 | 66 | 76 | 85 |
| 1/2YS120164 | | 1/2 | 0.438 | 11.6 | 13.7 | 16.4 | 23 | 28 | 33 | 40 | 46 | 52 | 73 | 90 | 104 | 116 |
| 150° | | 1/4YS15013 | 1/4 | 0.119 | 0.92 | 1.09 | 1.30 | 1.84 | 2.3 | 2.6 | 3.2 | 3.7 | 4.1 | 5.8 | 7.1 | 8.2 |
| | 1/4YS15020 | 1/4 | 0.147 | 1.41 | 1.67 | 2.0 | 2.8 | 3.5 | 4.0 | 4.9 | 5.7 | 6.3 | 8.9 | 11.0 | 12.6 | 14.1 |
| | 3/8YS15030 | 3/8 | 0.180 | 2.1 | 2.5 | 3.0 | 4.2 | 5.2 | 6.0 | 7.3 | 8.5 | 9.5 | 13.4 | 16.4 | 19.0 | 21 |
| | 3/8YS15040 | 3/8 | 0.208 | 2.8 | 3.3 | 4.0 | 5.7 | 6.9 | 8.0 | 9.8 | 11.3 | 12.6 | 17.9 | 22 | 25 | 28 |
| | 3/8YS15053 | 3/8 | 0.239 | 3.7 | 4.4 | 5.3 | 7.5 | 9.2 | 10.6 | 13.0 | 15.0 | 16.8 | 24 | 29 | 34 | 37 |
| | 3/8YS15082 | 3/8 | 0.298 | 5.8 | 6.9 | 8.2 | 11.6 | 14.2 | 16.4 | 20 | 23 | 26 | 37 | 45 | 52 | 58 |
| | 1/2YS150150 | 1/2 | 0.375 | 10.6 | 12.5 | 15.0 | 21 | 26 | 30 | 37 | 42 | 47 | 67 | 82 | 95 | 106 |
| | 1/2YS150164 | 1/2 | 0.438 | 11.6 | 13.7 | 16.4 | 23 | 28 | 33 | 40 | 46 | 52 | 73 | 90 | 104 | 116 |
| 170° | 1/4YS17013 | 1/4 | 0.119 | 0.92 | 1.09 | 1.30 | 1.84 | 2.3 | 2.6 | 3.2 | 3.7 | 4.1 | 5.8 | 7.1 | 8.2 | 9.2 |
| | 1/4YS17020 | 1/4 | 0.147 | 1.41 | 1.67 | 2.0 | 2.8 | 3.5 | 4.0 | 4.9 | 5.7 | 6.3 | 8.9 | 11.0 | 12.6 | 14.1 |
| | 3/8YS17030 | 3/8 | 0.180 | 2.1 | 2.5 | 3.0 | 4.2 | 5.2 | 6.0 | 7.3 | 8.5 | 9.5 | 13.4 | 16.4 | 19.0 | 21 |
| | 3/8YS17040 | 3/8 | 0.208 | 2.8 | 3.3 | 4.0 | 5.7 | 6.9 | 8.0 | 9.8 | 11.3 | 12.6 | 17.9 | 22 | 25 | 28 |
| | 3/8YS17053 | 3/8 | 0.239 | 3.7 | 4.4 | 5.3 | 7.5 | 9.2 | 10.6 | 13.0 | 15.0 | 16.8 | 24 | 29 | 34 | 37 |
| | 3/8YS17082 | 3/8 | 0.298 | 5.8 | 6.9 | 8.2 | 11.6 | 14.2 | 16.4 | 20 | 23 | 26 | 37 | 45 | 52 | 58 |
| | 1/2YS170170 | 1/2 | 0.375 | 12.0 | 14.2 | 17.0 | 24 | 29 | 34 | 42 | 48 | 54 | 76 | 93 | 108 | 120 |
| | 1/2YS170164 | 1/2 | 0.438 | 11.6 | 13.7 | 16.4 | 23 | 28 | 33 | 40 | 46 | 52 | 73 | 90 | 104 | 116 |