ProMax® QuickJet® Spray Nozzles

For trouble-free performance and fast maintenance
**Quick-change** spray technology ensures trouble-free performance and fast maintenance

Spraying Systems Co.’s ProMax® QuickJet® spray nozzle incorporates several design features that help ensure trouble-free performance and fast maintenance. Among the nozzle’s features are easy-grip spray tips, a unique locking design that assures correct placement of the spray tip and a standard seal that remains attached to the spray tip to prevent accidental loss or misplacement.

**ProMax material resists chemical attack**

The nozzle and tip are constructed of ProMax material, a chemically coupled, glass-reinforced engineering grade of polypropylene that combines strength and durability with chemical resistance. This material allows the nozzle to be used in many applications where other nozzle materials fail. In particular, the nozzle is ideal for many washing, rinsing and cleaning applications where phosphates, acids, solvents and other caustic solutions are used. In addition, since the ProMax QuickJet nozzles resist caking and build-up, nozzle plugging is minimized.

**No tools are required for tip installation and removal**

The ProMax QuickJet nozzle has a simple, two-part assembly with a unique patented design that makes tip changing quick and effortless. Because of the easy-grip spray tips, tip installation and removal of the nozzle can be done by hand, in seconds and without tools. Removal of the tip allows inspection of the orifice condition and the tip seal. Replacing the spray tip is even easier due to a detent flexing member that’s located on the spray tip. It provides a renewed “snap-in” feel whenever the tip is replaced. Plus, the spray tip always locks into the correct position due to a built-in internal stop. Spray tips are automatically aligned with a 10º offset to provide proper coverage. A standard TEFLON®-coated Viton® tip seal provides a positive seal between the body and the tip. And because this seal remains attached to the tip, accidental loss or misplacement is prevented.
A variety of spray tip choices, inlet connection sizes, and options

The ProMax® QuickJet® nozzle consists of a spray tip and a nozzle body. Quick VeeJet® flat spray tips, Quick FullJet® full cone spray tips (standard and wide angle) and Quick WhirlJet® hollow cone spray tips (standard and wide angle) are offered. Both the Quick VeeJet spray tips and Quick FullJet spray tips are color-coded by capacity. Nozzle bodies for the Quick VeeJet spray tip, Quick FullJet spray tip and Quick WhirlJet spray tip are available with 1/8”, 1/4”, 3/8” and 1/2” NPT or BSPT (M) inlet connections. An optional external Viton® O-ring is available to effectively seal out dirt and other contaminants that might make tip changeout difficult.

Choose from a wide range of capacities and spray angles

The standard ProMax Quick VeeJet flat spray tip has fourteen different capacities ranging from .20 to 7.0 gpm at 40 psi (.76 to 26.5 l/min at 2.8 bar). Most capacities are available in seven spray angles ranging from 25° to 110°. This gives you a selection of 90 different spray tip configurations. Maximum pressure is 200 psi (14 bar).

The ProMax Quick FullJet full cone spray tip is available with standard spray angles of 58° to 85° at 20 psi (1.5 bar) and ten capacities ranging from .19 to 2.9 gpm at 40 psi (.72 to 11.0 l/min at 2.8 bar). Maximum pressure is 150 psi (10 bar). Plus, the wide angle Quick FullJet full cone spray tip has wide spray angles of 120° at 10 psi (0.7 bar) and seven capacities ranging from .51 to 2.6 gpm at 40 psi (1.9 to 9.8 l/min at 2.8 bar). Maximum pressure is 80 psi (6 bar).

The standard Quick WhirlJet hollow cone spray tip features spray angles of 58° to 72° at 20 psi (1.5 bar) and eight different spray capacities ranging from .10 to 3.0 gpm at 40 psi (.38 to 11.4 l/min at 2.8 bar). Maximum pressure is 100 psi (7 bar). The wide angle Quick WhirlJet hollow cone spray tip also has spray angles of 98° to 112° at 20 psi (1.5 bar) and four different capacities ranging from 1.0 to 3.0 gpm at 40 psi (3.8 to 11.4 l/min at 2.8 bar). Maximum pressure is 100 psi (7 bar).
**Our miniature version is ideal for applications where space is limited**

The Miniature ProMax® Quick VeeJet® spray nozzle measures slightly over 1” (2.54 cm) when mounted in a standard header. This makes the nozzle an excellent choice for applications where space is limited. It also features the same two-part assembly as the larger ProMax nozzle, which makes spray tip changing quick and effortless.

In addition to the ProMax version of the nozzle, a Kynar® (PVDF) version of the Miniature Quick VeeJet nozzle is also offered. Constructed of chemical- and corrosion-resistant Kynar (PVDF) thermoplastic with no colorants or fillings to leach into the spray, this Miniature Quick VeeJet spray nozzle helps keep ultra-pure processing environments intact. The Miniature Quick VeeJet nozzle in Kynar (PVDF) is offered in all the same capacities and spray angles as the Miniature ProMax nozzle series.

The nozzle is available in seven spray angles from 25° to 110°. An optional body strainer (50 mesh) helps minimize pressure loss and an optional tip strainer (50 mesh) makes removal and cleaning of the spray tip even easier. The optional external Viton® O-ring seals the body and spray tip from dirt and other contaminants.

**Find out how you can reduce your spray nozzle maintenance time with the ProMax QuickJet® nozzle**

Many QuickJet nozzle users have already found that their nozzle maintenance time can be cut in half. Some have experienced even greater reductions. One customer reports that it is possible to replace twelve QuickJet nozzles in the time it previously took to replace one conventional threaded nozzle.

To learn more about the ProMax QuickJet spray nozzle, contact your local Spraying Systems Co. sales engineer or visit our website at www.spray.com.
ProMax Quick VeeJet® nozzle
ProMax Quick VeeJet nozzles are used for cleaning drum exteriors prior to painting.

Miniature ProMax Quick VeeJet nozzle
Miniature ProMax Quick VeeJet nozzles are used for pretreating cans on a conveyor line during can manufacturing.

ProMax Quick FullJet® nozzle
ProMax Quick FullJet nozzles are used for degreasing television screen back covers.

ProMax Quick WhirlJet® nozzle
ProMax Quick WhirlJet nozzles are used in the mining industry for washing rotary drum vacuum filter cake to leach out gold contents.
### ProMax® Quick VeeJet® Spray Nozzles

Standard Angle Flat Spray Specifications

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn.</th>
<th>Spray Angle at 40 psi</th>
<th>Capacity Size</th>
<th>Spray Tip Color</th>
<th>Capacity (gallons per minute)</th>
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<tbody>
<tr>
<td></td>
<td>25° 40° 50° 65° 80° 95° 110°</td>
<td></td>
<td>5 psi</td>
<td>10 psi</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>5 psi</td>
<td>10 psi</td>
</tr>
<tr>
<td>1/8, 1/4, 3/8, 1/2</td>
<td>02 Gray .07 .10 .14 .17 .20 .25 .28 .32 .45</td>
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<tr>
<td></td>
<td>03 Black .11 .15 .21 .26 .30 .37 .42 .47 .67</td>
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<tr>
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<td>04 Orange .14 .20 .28 .35 .40 .49 .57 .63 .89</td>
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<td>05 Green .18 .25 .35 .43 .50 .61 .71 .79 1.1</td>
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<tr>
<td></td>
<td>06 Yellow .21 .30 .42 .52 .60 .73 .85 .95 1.3</td>
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<td>08 Blue .28 .40 .56 .69 .80 .98 1.1 1.3 1.8</td>
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<td>10 White – .50 .71 .86 1.0 1.2 1.4 1.6 2.2</td>
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<tr>
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<td>20 Black – 1.0 1.4 1.7 2.0 2.5 2.8 3.2 4.5</td>
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<tr>
<td></td>
<td>30 Orange 1.1 1.5 2.1 2.6 3.0 3.7 4.2 4.7 6.7</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>40 Green 1.4 2.0 2.8 3.5 4.0 4.9 5.7 6.3 8.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>50 Yellow 1.8 2.5 3.5 4.3 5.0 6.1 7.1 7.9 11.2</td>
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</tr>
<tr>
<td></td>
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<tr>
<td></td>
<td>70 Red 2.5 3.5 4.9 6.1 7.0 8.6 9.9 11.1 15.7</td>
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</table>

Capacities at 40 psi (3 bar).

Type QPPA nozzle bodies available in 1/8”, 1/4” and 3/8” sizes with NPT or BSPT threads.

Optional external Viton® O-ring (CP7717-2/17-VI)

ProMax Quick VeeJet spray tips with TEFLO®N-coated Viton tip seal.

Optional internal strainer available for capacity sizes up to -08.
### Performance Data

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Angle at 3 bar</th>
<th>Capacity Size</th>
<th>Spray Tip Color</th>
<th>Capacity (liters per minute)</th>
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</thead>
<tbody>
<tr>
<td>25°</td>
<td>02 Gray</td>
<td>.25</td>
<td>.46</td>
<td>.64</td>
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<td>40°</td>
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<td>.68</td>
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<tr>
<td>50°</td>
<td>04 Orange</td>
<td>.50</td>
<td>.91</td>
<td>1.3</td>
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<td>65°</td>
<td>05 Green</td>
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<td>80°</td>
<td>06 Yellow</td>
<td>.75</td>
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<td>1.9</td>
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<tr>
<td>95°</td>
<td>08 Blue</td>
<td>1.0</td>
<td>1.8</td>
<td>2.6</td>
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<tr>
<td>110°</td>
<td></td>
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</table>

- 1/8, 1/4, 3/8, 1/2
- Maximum pressures at various temperatures

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Angle at 3 bar</th>
<th>Capacity Size</th>
<th>Spray Tip Color</th>
<th>Capacity (liters per minute)</th>
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</thead>
<tbody>
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<td>25°</td>
<td>10 White</td>
<td>–</td>
<td>2.3</td>
<td>3.2</td>
</tr>
<tr>
<td>40°</td>
<td>15 Gray</td>
<td>–</td>
<td>3.4</td>
<td>4.8</td>
</tr>
<tr>
<td>65°</td>
<td>20 Black</td>
<td>–</td>
<td>4.6</td>
<td>6.5</td>
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<tr>
<td>80°</td>
<td>30 Orange</td>
<td>3.7</td>
<td>6.8</td>
<td>9.7</td>
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<tr>
<td>95°</td>
<td>40 Green</td>
<td>5.0</td>
<td>9.1</td>
<td>12.9</td>
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<tr>
<td>110°</td>
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</table>

- 1/8” body can be used up to -40 capacity size

### Dimensions & Weights

<table>
<thead>
<tr>
<th>Nozzle Type</th>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>A (in. (mm))</th>
<th>B Hex. (in. (mm))</th>
<th>C (in. (mm))</th>
<th>Net Weight (oz. (kg))</th>
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</thead>
<tbody>
<tr>
<td>QPPA + QPTA</td>
<td>1/8, 1/4, 3/8, 1/2</td>
<td>1-3/4 (44.5)</td>
<td>7/8 (22.2)</td>
<td>1-1/4 (32)</td>
<td>.37 (.01)</td>
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### Ordering Information

**ProMax® QuickJet® Complete Nozzle Without External O-Ring**

- **NOZZLE BODY**
  - Inlet Conn.: 1/4
  - Body Type: QPPA
- **SPRAY TIP**
  - Tip Type: QPTA
  - Spray Angle: 25°
  - Capacity Size: 04

**ProMax QuickJet Complete Nozzle With External O-Ring**

- **NOZZLE BODY**
  - Inlet Conn.: 3/8
  - Body Type: QPPA
- **SPRAY TIP**
  - Tip Type: QPTA
  - Spray Angle: 65°
  - Capacity Size: 10A

BSPT connections require the addition of a “B” prior to the inlet connection.
### Miniature ProMax® Quick VeeJet® Flat Spray Nozzles Specifications

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Angle at 40 psi</th>
<th>Capacity Size</th>
<th>Spray Tip Color</th>
<th>Capacity (gallons per minute)</th>
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<tbody>
<tr>
<td></td>
<td>25°</td>
<td>40°</td>
<td>50°</td>
<td>65°</td>
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<td>1/8, 1/4</td>
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Capacities at 40 psi (3 bar).

**Performance Data**

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Angle at 40 psi</th>
<th>Capacity Size</th>
<th>Spray Tip Color</th>
<th>Capacity (gallons per minute)</th>
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<tr>
<td></td>
<td>25°</td>
<td>40°</td>
<td>50°</td>
<td>65°</td>
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<td>1/8, 1/4</td>
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</table>

**Optional Kynar® body strainer** (CP39212-1-KY [1/8"] or CP39212-2-KY [1/4“])

**Type QPPM nozzle bodies available in 1/8" and 1/4" sizes with NPT or BSPT threads**

**Optional Kynar tip strainer** (CP45095-KY)

**Optional external Viton® O-ring (CP7717-2/13-VI)**

ProMax Miniature Quick VeeJet spray tips with TEFLO®-coated Viton tip seal

*50 mesh – use of both tip and body strainers is not recommended.*
### Performance Data

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Angle at 3 bar</th>
<th>Capacity Size</th>
<th>Spray Tip Color</th>
<th>Capacity (liters per minute)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8, 1/4</td>
<td></td>
<td>25° 40° 50° 65° 80° 95° 110°</td>
<td>01 White</td>
<td>0.3 bar 0.12 .13 .14 .15 .16 .17 .18 .19 .20 .21 .22 .23 .24 .25 .26 .27 .28 .29 .30 .31 .32 .33 .34 .35 .36 .37 .38 .39 .40 .41 .42 .43 .44 .45 .46 .47 .48 .49 .50 .51 .52 .53 .54 .55 .56 .57 .58 .59 .60 .61 .62 .63 .64 .65 .66 .67 .68 .69 .70 .71 .72 .73 .74 .75 .76 .77 .78 .79 .80 .81 .82 .83 .84 .85 .86 .87 .88 .89 .90 .91 .92 .93 .94 .95 .96 .97 .98 .99 .00</td>
</tr>
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</table>

### Dimensions & Weights

<table>
<thead>
<tr>
<th>Nozzle Type</th>
<th>Length in. (mm)</th>
<th>Hex. in. (mm)</th>
<th>Net Weight oz. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPPM + QMVV</td>
<td>1-3/16 (30)</td>
<td>5/8 (15.9)</td>
<td>.13 (.0037)</td>
</tr>
</tbody>
</table>

### Ordering Information

**ProMax® QuickJet® Complete Nozzle Without External O-Ring**

- **NOZZLE BODY**
  - QPPM
- **SPRAY TIP**
  - QMVV
  - 50
  - 02

**Ordering Information**

**ProMax QuickJet Complete Nozzle With External O-Ring**

- **NOZZLE BODY**
  - QPPM
- **SPRAY TIP**
  - QMVV
  - 25
  - 02A

BSPT connections require the addition of a "B" prior to the inlet connection.

### Maximum pressures at various temperatures

- **PRESSURE**
  - 1.7 to 12 bar
  - 25 to 175 psi

- **LIQUID TEMPERATURE**
  - 40 to 200 °F
  - 4 to 93 °C

**OPERATING REGION**
### ProMax® Quick FullJet® Spray Nozzles

**Standard Angle Full Cone Spray Specifications**

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Tip Number</th>
<th>Spray Tip Color</th>
<th>Orifice Dia. Nom. (in.)</th>
<th>Max. Free Passage Dia.’ (in.)</th>
<th>Capacity (gallons per minute)</th>
<th>Spray Angle</th>
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<tbody>
<tr>
<td>1/8, 1/4, 3/8, 1/2</td>
<td>QPHA-1</td>
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<td>5 ps</td>
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<td>1/4</td>
<td>.12</td>
<td>.025</td>
<td>10 ps</td>
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<td>QPHA-3.5</td>
<td>Orange</td>
<td>.063</td>
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<td>.36</td>
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<td>43° 50°</td>
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<td>QPHA-15</td>
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<td>43° 50°</td>
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</tbody>
</table>

*Foreign matter with maximum diameter as listed can pass through nozzle without clogging.*

**Performance Data**

**Type QPPA nozzle bodies available in 1/4” and 3/8” sizes with NPT or BSPT threads**

**Optional external Viton® O-ring (CP7717-2/17-VI)**

**ProMax Quick FullJet spray tips with TEFLON®-coated Viton tip seal**

Capacities at 40 psi (3 bar).
### Performance Data

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>SprayTip Number</th>
<th>Spray Tip Color</th>
<th>Orifice Dia. Nom. (mm)</th>
<th>Max. Free Passage Dia. (mm)</th>
<th>Capacity (liters per minute)</th>
<th>Spray Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.5 bar</td>
<td>0.7 bar</td>
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<tr>
<td>1/8, 1/4, 3/8, 1/2</td>
<td>QPHA-1</td>
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<td>1.0</td>
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<td>1.0</td>
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<td>QPHA-3.5</td>
<td>Orange</td>
<td>1.6</td>
<td>1.3</td>
<td>1.1</td>
<td>1.3</td>
</tr>
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<td>QPHA-5</td>
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<td>1.9</td>
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<td>1.6</td>
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<td>QPHA-8</td>
<td>Beige</td>
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<td>3.0</td>
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<td>3.8</td>
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<td>QPHA-15</td>
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<td>3.6</td>
<td>1.6</td>
<td>4.9</td>
<td>5.7</td>
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</table>

*Foreign matter with maximum diameter as listed can pass through nozzle without clogging.

### Dimensions & Weights

<table>
<thead>
<tr>
<th>Nozzle Type</th>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>A in. (mm)</th>
<th>B Hex. in. (mm)</th>
<th>C in. (mm)</th>
<th>Net Weight oz. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPPA + QPHA</td>
<td>1/8, 1/4, 3/8, 1/2</td>
<td>1-3/4 (44.5)</td>
<td>7/8 (22.2)</td>
<td>1-1/4 (32)</td>
<td>.4 (.01)</td>
</tr>
</tbody>
</table>

### Ordering Information

**ProMax® QuickJet® Complete Nozzle Without External O-Ring**

- **NOZZLE BODY**
- **SPRAY TIP**

| 1/4 QPPA | + | QPHA - 3 |

**Ordering Information**

**ProMax QuickJet Complete Nozzle With External O-Ring**

- **NOZZLE BODY**
- **SPRAY TIP**

| 3/8 QPPA | + | QPHA - 10A |

BSPT connections require the addition of a "B" prior to the inlet connection.

### Maximum pressures at various temperatures

**PRESSURE**

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<th>15</th>
<th>20</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
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</thead>
<tbody>
<tr>
<td>0 psi</td>
<td>40</td>
<td>60</td>
<td>80</td>
<td>100</td>
<td>120</td>
<td>140</td>
<td>160</td>
<td>180</td>
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</table>

**LIQUID TEMPERATURE**

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<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°F</td>
<td>60°F</td>
<td>80°F</td>
<td>100°F</td>
<td>120°F</td>
<td>140°F</td>
<td>160°F</td>
<td>180°F</td>
<td>200°F</td>
</tr>
</tbody>
</table>

**OPERATING REGION**

Spraying Systems Co.  
1.800.95.SPRAY  |  Intl. 1.630.665.5000  | www.spray.com
ProMax® Quick FullJet® Spray Nozzles
Wide Angle Full Cone Spray Specifications

Type QPPA nozzle bodies available in 1/4” and 3/8” sizes with NPT or BSPT threads

Optional external Viton® O-ring (CP7717-2/17-VI)

ProMax Quick FullJet spray tips with TEFLON®-coated Viton tip seal

Capacities at 40 psi (3 bar).

Performance Data

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn.</th>
<th>Spray Tip Number</th>
<th>Spray Tip Color</th>
<th>Orifice Dia. Nom. (in.)</th>
<th>Max. Free Passage Dia.* (in.)</th>
<th>Capacity (gallons per minute)</th>
<th>Spray Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8, 1/4, 3/8, 1/2</td>
<td>QPHA-2.8W</td>
<td>White</td>
<td>.057</td>
<td>.040</td>
<td>5 psi .28, 7 psi .33, 10 psi .38, 15 psi .45, 20 psi .51, 30 psi .61, 40 psi .70</td>
<td>70° to 120°</td>
</tr>
<tr>
<td></td>
<td>QPHA-4.3W</td>
<td>Black</td>
<td>.073</td>
<td>.040</td>
<td>5 psi .38, 7 psi .51, 10 psi .58, 15 psi .70, 20 psi .79, 30 psi .95, 40 psi 1.1</td>
<td>70° to 120°</td>
</tr>
<tr>
<td></td>
<td>QPHA-5.6W</td>
<td>Orange</td>
<td>.086</td>
<td>.040</td>
<td>5 psi .56, 7 psi .67, 10 psi .76, 15 psi .91, 20 psi 1.0, 30 psi 1.2</td>
<td>70° to 120°</td>
</tr>
<tr>
<td></td>
<td>QPHA-8W</td>
<td>Green</td>
<td>.098</td>
<td>.050</td>
<td>5 psi .68, 7 psi .80, 10 psi .96, 15 psi 1.1, 20 psi 1.3</td>
<td>70° to 120°</td>
</tr>
<tr>
<td></td>
<td>QPHA-10W</td>
<td>Yellow</td>
<td>.109</td>
<td>.050</td>
<td>5 psi .74, 7 psi .86, 10 psi 1.0, 15 psi 1.2, 20 psi 1.4</td>
<td>70° to 120°</td>
</tr>
<tr>
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<td>QPHA-12W</td>
<td>Blue</td>
<td>.129</td>
<td>.050</td>
<td>5 psi .89, 7 psi 1.0, 10 psi 1.2, 15 psi 1.4, 20 psi 1.6</td>
<td>70° to 120°</td>
</tr>
<tr>
<td></td>
<td>QPHA-14W</td>
<td>Red</td>
<td>.141</td>
<td>.063</td>
<td>5 psi 1.0, 7 psi 1.2, 10 psi 1.4, 15 psi 1.7, 20 psi 1.9</td>
<td>70° to 120°</td>
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</tbody>
</table>

*Foreign matter with maximum diameter as listed can pass through nozzle without clogging.
Ordering Information

ProMax® QuickJet® Complete Nozzle Without External O-Ring

**Spray Tip Color**

- **White**
- **Black**
- **Orange**
- **Green**
- **Yellow**
- **Blue**
- **Red**

**Ordering Information**

ProMax® QuickJet® Complete Nozzle With External O-Ring

**BSPT connections require the addition of a “B” prior to the inlet connection.**

---

### Performance Data

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn.</th>
<th>Spray Tip Number</th>
<th>Spray Tip Color</th>
<th>Orifice Dia. Nom. (mm)</th>
<th>Max. Orifice Dia. (mm)</th>
<th>Capacity (liters per minute)</th>
<th>Spray Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPT or BSPT (M)</td>
<td>QPHA-2.8W</td>
<td>White</td>
<td>1.4</td>
<td>1.0</td>
<td>0.3 bar 0.5 bar 0.7 bar 1 bar 2 bar 3 bar 4 bar 5 bar 6 bar</td>
<td>120° 102°</td>
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<tr>
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<td>QPHA-4.3W</td>
<td>Black</td>
<td>1.9</td>
<td>1.0</td>
<td>1.1 1.2 1.7 2.0 2.3 2.5 2.7</td>
<td>120° 102°</td>
</tr>
<tr>
<td></td>
<td>QPHA-5.6W</td>
<td>Orange</td>
<td>2.2</td>
<td>1.0</td>
<td>1.8 2.1 2.5 3.4 4.0 4.6 5.1 5.5</td>
<td>120° 102°</td>
</tr>
<tr>
<td></td>
<td>QPHA-8W</td>
<td>Green</td>
<td>2.5</td>
<td>1.3</td>
<td>2.6 3.0 3.6 4.8 5.8 6.6 7.2 7.8</td>
<td>120° 103°</td>
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<tr>
<td></td>
<td>QPHA-10W</td>
<td>Yellow</td>
<td>2.8</td>
<td>1.3</td>
<td>2.6 3.3 3.8 4.5 6.0 7.2 8.2 9.1 9.8</td>
<td>112° 120° 103°</td>
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<td>QPHA-12W</td>
<td>Blue</td>
<td>3.3</td>
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<td>3.1 3.9 4.6 5.3 7.3 8.7 9.8 10.9 11.8</td>
<td>114° 120° 103°</td>
</tr>
<tr>
<td></td>
<td>QPHA-14W</td>
<td>Red</td>
<td>3.6</td>
<td>1.6</td>
<td>3.7 4.6 5.3 6.2 8.5 10.1 11.5 12.7 13.7</td>
<td>114° 120° 103°</td>
</tr>
</tbody>
</table>

*Foreign matter with maximum diameter as listed can pass through nozzle without clogging.*

### Dimensions & Weights

<table>
<thead>
<tr>
<th>Nozzle Type</th>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>A in. (mm)</th>
<th>B Hex. in. (mm)</th>
<th>C in. (mm)</th>
<th>Net Weight oz. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPPA + QPHA-2.8W</td>
<td>1/8, 1/4, 3/8, 1/2</td>
<td>1-3/4 (44.5)</td>
<td>7/8 (22.2)</td>
<td>1-1/4 (32)</td>
<td>.4 (.01)</td>
</tr>
</tbody>
</table>

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**Spraying Systems Co.**

1.800.95.SPRAY | Intl. 1.630.665.5000 | www.spray.com
### Performance Data

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Tip Number</th>
<th>Inlet Dia. Nom. (in.)</th>
<th>Orifice Dia. Nom. (in.)</th>
<th>Capacity (gallons per minute)</th>
<th>Spray Angle</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>3 psi</td>
<td>5 psi</td>
</tr>
<tr>
<td>1/8, 1/4, 3/8, 1/2</td>
<td>QPAA-0.5</td>
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<td>–</td>
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<tr>
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<td>QPAA-1</td>
<td>.063</td>
<td>.063</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
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<td>QPAA-2</td>
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<td>.078</td>
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<td>.17</td>
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<td>QPAA-5</td>
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<td>QPAA-8</td>
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<td>.72</td>
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<td>QPAA-15</td>
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### Performance Data

<table>
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<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Tip Number</th>
<th>Inlet Dia. Nom. (mm)</th>
<th>Orifice Dia. Nom. (mm)</th>
<th>Capacity (liters per minute)</th>
<th>Spray Angle</th>
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<tbody>
<tr>
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<td>0.2 bar</td>
<td>0.5 bar</td>
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<td>.16</td>
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<tr>
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<td>1.6</td>
<td>–</td>
<td>.32</td>
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<td>2.4</td>
<td>–</td>
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<tr>
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<td>QPAA-5</td>
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<td>2.8</td>
<td>–</td>
<td>1.6</td>
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<tr>
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<td>QPAA-8</td>
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<td>3.6</td>
<td>1.6</td>
<td>2.6</td>
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<tr>
<td></td>
<td>QPAA-15</td>
<td>6.0</td>
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<td>4.8</td>
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</table>
Dimensions & Weights

<table>
<thead>
<tr>
<th>Nozzle Type</th>
<th>Length in. (mm)</th>
<th>Hex. in. (mm)</th>
<th>Net Weight oz. (kg)</th>
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<tbody>
<tr>
<td>QPPA + QPAA</td>
<td>2-9/32 (58)</td>
<td>7/8 (22.2)</td>
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Ordering Information
ProMax® QuickJet® Complete Nozzle Without External O-Ring

1/4 QPPA + QPAA - 3

BSPT connections require the addition of a "B" prior to the inlet connection.

Ordering Information
ProMax QuickJet Complete Nozzle With External O-Ring

1/4 QPPA + QPAA - 3A

ProMax Quick WhirlJet® nozzles are used to cool and humidify germination beds in a malting plant.
### Performance Data

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Tip Number</th>
<th>Inlet Dia. Nom. (in.)</th>
<th>Orifice Dia. Nom. (in.)</th>
<th>Capacity (gallons per minute)</th>
<th>Spray Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3 psi</td>
<td>5 psi</td>
</tr>
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<td>1/8, 1/4, 3/8, 1/2</td>
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<td>.129</td>
<td>–</td>
<td>.35</td>
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<tr>
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<td>QPAA-8W</td>
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<td>.156</td>
<td>.44</td>
<td>.47</td>
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<td>QPAA-10W</td>
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<td>QPAA-15W</td>
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<td>.213</td>
<td>.82</td>
<td>1.1</td>
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### Performance Data

<table>
<thead>
<tr>
<th>Nozzle Inlet Conn. NPT or BSPT (M)</th>
<th>Spray Tip Number</th>
<th>Inlet Dia. Nom. (mm)</th>
<th>Orifice Dia. Nom. (mm)</th>
<th>Capacity (liters per minute)</th>
<th>Spray Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td>0.5 bar</td>
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<td>1.6</td>
</tr>
<tr>
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<td>QPAA-8W</td>
<td>4.5</td>
<td>4.0</td>
<td>1.6</td>
<td>2.6</td>
</tr>
<tr>
<td></td>
<td>QPAA-10W</td>
<td>5.0</td>
<td>4.5</td>
<td>2.0</td>
<td>3.2</td>
</tr>
<tr>
<td></td>
<td>QPAA-15W</td>
<td>6.1</td>
<td>5.4</td>
<td>3.1</td>
<td>4.8</td>
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</tbody>
</table>
ProMax® QuickJet® Complete Nozzle Without External O-Ring

<table>
<thead>
<tr>
<th>NOZZLE BODY</th>
<th>SPRAY TIP</th>
</tr>
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<tbody>
<tr>
<td>1/4 QPPA +</td>
<td>QPAA - 5W</td>
</tr>
</tbody>
</table>

Inlet Conn. | Body Type | Tip Type | Capacity Size
---|---|---|---

BSPT connections require the addition of a "B" prior to the inlet connection.

ProMax® QuickJet® Complete Nozzle With External O-Ring

<table>
<thead>
<tr>
<th>NOZZLE BODY</th>
<th>SPRAY TIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 QPPA +</td>
<td>QPAA - 5WA</td>
</tr>
</tbody>
</table>

Inlet Conn. | Body Type | Tip Type | Capacity Size
---|---|---|---

BSPT connections require the addition of a "B" prior to the inlet connection.

Specifications

<table>
<thead>
<tr>
<th>Nozzle Type</th>
<th>Length in. (mm)</th>
<th>Hex. in. (mm)</th>
<th>Net Weight oz. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>QPPA + QPAA-__W</td>
<td>2-9/32 (58)</td>
<td>7/8 (22.2)</td>
<td>.45 (.01)</td>
</tr>
</tbody>
</table>

ProMax Quick WhirlJet® nozzles are used to heat and cool jelly jars during the pasteurization process.
Other products offered in ProMax® material

**ProMax Adjustable Ball-Type Nozzle**
ensures accurate alignment without overspray

The No. 37235 – ProMax Adjustable Ball-Type nozzle combines a threaded pipe connection with an adjustable swivel-type ball for added versatility. You can adjust the spray direction quickly and easily, without disturbing the pipe connection. Spray alignment can be finely tuned to minimize overspray or to direct sprays to targeted areas.

The nozzle is constructed of a glass-filled polypropylene body and polyphthalamide cap with an EPDM O-ring (Viton® optional). Maximum operating pressure is 125 psi (8.6 bar). Inlet connections – 1/4", 3/8" and 1/2" NPT or BSPT (M) are offered.

The ProMax Adjustable Ball-Type nozzle accepts the ProMax ball for use with ProMax FullJet®, VeeJet® and WhirlJet® tips, a threaded ball for spray nozzles with 1/4" and 3/8" NPT or BSPT (M) inlet connections, or a blank tip. It offers adjustability up to 56°.

**ProMax Clip-Eyelet® Nozzle**
The No. 46500A – ProMax Clip-Eyelet nozzle combines a “snap-on” pipe connection with easy-to-install and replace spray tips for added versatility. An adjustable, swivel-type ball makes fast work of changing the direction of the spray without disturbing the pipe connection. Spray alignment can be finely tuned to minimize overspray.

The ProMax Clip-Eyelet nozzle accepts the ProMax ball for use with ProMax FullJet and VeeJet tips. The flat spray VeeJet tips are automatically locked into alignment each and every time.

The nozzle is constructed of ProMax material which makes it well suited for spraying phosphates, acids, solvents and other caustics. It is ideal for cleaning, rinsing, coating, and wetting applications. It operates at a maximum pressure of 60 psi (4 bar) and at a maximum temperature of 180°F (82°C). Body sizes are available to clamp on 1", 1-1/4", 1-1/2" and 2" pipes.

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**Ordering Information**

**ProMax Adjustable Ball-Type Nozzle**

<table>
<thead>
<tr>
<th>Assembly No.</th>
<th>Ball No.</th>
<th>Spray Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>37235-3/8-PP</td>
<td>CP46679-PP</td>
<td>QPTA 25 02</td>
</tr>
</tbody>
</table>

**ProMax Clip-Eyelet® Nozzle**

<table>
<thead>
<tr>
<th>Assembly No.</th>
<th>Spray Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>46500A-1-1/4-PP</td>
<td>QPTA 25 02</td>
</tr>
</tbody>
</table>
ProMax® HP Eyelet’s unique design speeds changeout

The No. 38625 – ProMax HP Eyelet is the first pipe-mounted assembly of its kind that can be easily installed and removed by hand. The assembly’s hinged body only requires one screw for hand tightening to the spray header. The screw may be installed from either side of the assembly for easy access. It also remains attached to the assembly when loosened to eliminate the chance of misplacing the screw.

The nozzle is constructed of glass-filled polypropylene body and polyphthalamide cap with EPDM O-ring (Viton® optional). This design also prevents rotation when the retaining cap is removed or tightened. It operates at a maximum pressure of 125 psi (8.6 bar) and a maximum temperature of 180°F (82°C). It accepts the ProMax ball for use with ProMax FullJet®, VeeJet® and WhirlJet® tips, a threaded ball for spray nozzles with 1/4” and 3/8” NPT or BSPT (M) inlet connections or a blank tip. It also offers adjustability up to 56°. Body sizes are available to clamp on 1-1/4” and 1-1/2” pipes.

Reduce maintenance time with ProMax QuickJet® nozzle adapters

The ProMax QuickJet adapters can convert any nozzle with a standard male connection or UniJet® style tip into a ProMax QuickJet style unit.

Constructed of ProMax material, the QPA adapter fits standard nozzles with 1/8”, 1/4” or 3/8” NPT or BSPT (M) inlet connections. The QPAxT adapter accepts all UniJet spray tips, strainers and tip retainers.

Used with the ProMax QuickJet body, the adapter provides all the benefits of quick-change technology. Maintenance downtime is reduced since no tools are required for installation and removal. Plus, the nozzles or spray tips are automatically locked into alignment. As a result, quality control problems due to misaligned nozzles or tips are a thing of the past.

Optional accessories are also offered for the ProMax nozzle

Additional accessories are also available from Spraying Systems Co. for the ProMax nozzle. The QPA plug can be used to conveniently shut off individual nozzles. And a threaded ball (CP20582-1/4-PPB and CP20582-3/8-PPB) accepts a variety of conventional spray nozzles. For more information on these products, request a copy of Industrial Spray Products Catalog 70.

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**Ordering Information**

<table>
<thead>
<tr>
<th>Assembly No.</th>
<th>ProMax Ball No.</th>
<th>Spray Tip No.</th>
<th>Angle</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>38625-1-1/4-PP</td>
<td>CP46679-PP</td>
<td>QPTA 25 02</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Other helpful resources and product information for specifying spray nozzles

**Industrial Spray Products**
**Catalog 70**
400-page, full-line catalog including spray nozzles and accessories, technical data and problem solving ideas.

**Optimizing Spray Nozzle Performance in Metal Pretreatment Applications**
**Bulletin No. 354E**
This 12-page bulletin includes information on spray nozzles for improving finished product quality in the surface treatment process. Included are applications and specifications on many spray nozzles and accessories designed for surface treatment.

**A Guide to Improving the Performance of Your Air Control Applications**
**Catalog 20B**
28-page catalog includes information on our full line of air control nozzles. Also included is an application/selection guide as well as noise reduction and cost savings information.

**Quick-Connect Nozzle Systems**
**Bulletin No. 513B**
16-page bulletin highlights Spraying Systems Co.’s expanded line of quick-connect nozzles. The timesaving installation and maintenance features of this nozzle including a “snap-on” pipe connection and easy to install and replace spray tips, are described in detail.

**Optimizing Your Spray System: Spray Nozzle Maintenance and Control for Improved Production Efficiency**
**Technical Manual 410**
Explains how to maximize performance and quality in your spray application.

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TEFLON® is registered trademark of DuPont Company.
Viton® is a registered trademark of DuPont Performance Elastomers.