

## TC TIPS OVERVIEW

| Model   | Max. Pressure         | Spray Pattern   | Typical Applications   | Page |
|---|-----------------------|-----------------|--|------|
|  <p>Fine Spray TC Tips</p>                 | 2000 psi<br>(138 bar) | Hollow cone     | <ul style="list-style-type: none"> <li>• Humidification</li> <li>• Coating inside piping</li> <li>• Evaporative cooling</li> </ul>                                 | 4    |
|  <p>High-Pressure TC Tips</p>              | 3000 psi<br>(207 bar) | Flat spray      | <ul style="list-style-type: none"> <li>• Paint spraying</li> <li>• Sealant/protective coating spraying</li> </ul>  | 5    |
|  <p>Heavy Edge TC Tips</p>                 | 4000 psi<br>(276 bar) | Flat spray      | <ul style="list-style-type: none"> <li>• Road paint striping</li> </ul>  | 9    |
|  <p>Robotic TC Tips</p>                   | 4000 psi<br>(276 bar) | Flat spray      | <ul style="list-style-type: none"> <li>• Robotic spraying</li> <li>• Sealant/coating spraying</li> </ul>   | 11   |
|  <p>ECRTC Tips</p>                       | 4000 psi<br>(276 bar) | Even flat spray | <ul style="list-style-type: none"> <li>• Viscous solution spraying such as thickened paints and adhesives</li> <li>• High particulate solution spraying</li> </ul> | 14   |
|  <p>RotoClean® Airless Spray Nozzles</p> | 5000 psi<br>(345 bar) | Flat spray      | <ul style="list-style-type: none"> <li>• Manual spraying</li> <li>• High-pressure paint spraying</li> </ul>  | 16   |
|  <p>High-Pressure 11430 UniJet® Body</p> | 3000 psi<br>(207 bar) | Flat spray      | <ul style="list-style-type: none"> <li>• Nozzle body for high pressure UniJet spray tips</li> </ul>  | 20   |
|  <p>Model HV Orifice</p>                 | 2000 psi<br>(138 bar) | Flat spray      | <ul style="list-style-type: none"> <li>• Orifice insert produces a fine finish; for use with high-pressure TC tips</li> </ul>                                      | 20   |

# High-Pressure TC Tips

## Benefits

- Ideal for paint spraying and the application of sealants and protective coatings in automotive manufacturing
- Erosion-resistant tungsten carbide orifice insert provides longer wear life than standard stainless steel tips
- Excellent corrosion resistance
- High-impact flat spray pattern with tapered edges provides even coverage when sprays overlap
- Tip orifice insert is recessed in a solid stainless steel tip body to protect against damage

## Specifications

Maximum pressure: 3000 psi (207 bar)

Spray pattern: Flat spray

Materials: Stainless steel with tungsten carbide orifice insert



High-Pressure 11430 UniJet® Body with High-Pressure TC Tip

High-Pressure TC Tip

## High-Pressure TC Tips Performance Data

| Spray Angle at 3 bar | Spray Tip Number | Equiv. Orifice Dia. (mm) | Capacity* (liters per minute) |         |         |         | Approx.** Spray Pattern Width (cm) (at 30 cm distance) |
|----------------------|------------------|--------------------------|-------------------------------|---------|---------|---------|--|
|                      |                  |                          | 50 bar                        | 100 bar | 150 bar | 200 bar |  |
| 110°                 | 1100017-TC       | .28                      | .27                           | .39     | .47     | .55     | 39   |
|                      | 1100025-TC       | .33                      | .40                           | .57     | .70     | .81     | 42   |
|                      | 1100033-TC       | .38                      | .53                           | .75     | .92     | 1.1     | 43   |
|                      | 1100039-TC       | .41                      | .63                           | .89     | 1.1     | 1.3     | 46   |
|                      | 1100050-TC       | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 48   |
|                      | 1100067-TC       | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 53   |
|                      | 1100080-TC       | .58                      | 1.3                           | 1.8     | 2.2     | 2.6     | 56   |
|                      | 11001-TC         | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 58   |
|                      | 110015-TC        | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 63   |
|                      | 11002-TC         | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 66   |
|                      | 11003-TC         | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 68   |

| Spray Angle at 3 bar | Spray Tip Number | Equiv. Orifice Dia. (mm) | Capacity* (liters per minute) |         |         |         | Approx.** Spray Pattern Width (cm) (at 30 cm distance) |
|----------------------|------------------|--------------------------|-------------------------------|---------|---------|---------|--|
|                      |                  |                          | 50 bar                        | 100 bar | 150 bar | 200 bar |  |
| 110°                 | 11004-TC         | 1.3                      | 6.4                           | 9.1     | 11.2    | 12.9    | 71   |
|                      | 11005-TC         | 1.4                      | 8.1                           | 11.4    | 14.0    | 16.1    | 71   |
|                      | 110053-TC        | 1.5                      | 8.5                           | 12.1    | 14.8    | 17.1    | 71   |
|                      | 11006-TC         | 1.6                      | 9.7                           | 13.7    | 16.7    | 19.3    | 71   |
|                      | 11007-TC         | 1.7                      | 11.3                          | 16.0    | 19.5    | 23      | 71   |
|                      | 11008-TC         | 1.8                      | 12.9                          | 18.2    | 22      | 26      | 71   |
|                      | 11009-TC         | 1.9                      | 14.5                          | 21      | 25      | 29      | 71   |
|                      | 11010-TC         | 2.0                      | 16.1                          | 23      | 28      | 32      | 71   |
|                      | 11011-TC         | 2.2                      | 17.7                          | 25      | 31      | 35      | 71   |
|                      | 11012-TC         | 2.3                      | 19.3                          | 27      | 33      | 39      | 71   |
|                      | 95°              | 950017-TC                | .28                           | .27     | .39     | .47     | .55  |

\* Tabulated capacities based on water.

\*\* Spray pattern diameter is based on liquid with viscosity of 20 seconds, #4 Zahn Cup spraying at 1600 psi (110 bar). Coverage will vary with viscosities and pressures.

# High-Pressure TC Tips Performance Data

| Spray Angle at 3 bar | Spray Tip Number | Equiv. Orifice Dia. (mm) | Capacity* (liters per minute) |         |         |         | Approx.** Spray Pattern Width (cm) (at 30 cm distance) |
|----------------------|------------------|--------------------------|-------------------------------|---------|---------|---------|--|
|                      |                  |                          | 50 bar                        | 100 bar | 150 bar | 200 bar |  |
| 95°                  | 950025-TC        | .33                      | .40                           | .57     | .70     | .81     | 36   |
|                      | 950033-TC        | .38                      | .53                           | .75     | .92     | 1.1     | 38   |
|                      | 950039-TC        | .41                      | .63                           | .89     | 1.1     | 1.3     | 40   |
|                      | 950044-TC        | .43                      | .71                           | 1.0     | 1.2     | 1.4     | 41   |
|                      | 950050-TC        | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 43   |
|                      | 950067-TC        | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 48   |
|                      | 950080-TC        | .58                      | 1.3                           | 1.8     | 2.2     | 2.6     | 48   |
|                      | 9501-TC          | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 53   |
|                      | 95015-TC         | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 53   |
|                      | 9502-TC          | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 56   |
|                      | 9503-TC          | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 56   |
|                      | 9504-TC          | 1.3                      | 6.4                           | 9.1     | 11.2    | 12.9    | 58   |
|                      | 9505-TC          | 1.4                      | 8.1                           | 11.4    | 14.0    | 16.1    | 58   |
|                      | 9506-TC          | 1.6                      | 9.7                           | 13.7    | 16.7    | 19.3    | 58   |
|                      | 9507-TC          | 1.7                      | 11.3                          | 16.0    | 19.5    | 23      | 58   |
|                      | 9508-TC          | 1.8                      | 12.9                          | 18.2    | 22      | 26      | 58   |
|                      | 9509-TC          | 1.9                      | 14.5                          | 21      | 25      | 29      | 58   |
|                      | 9510-TC          | 2.0                      | 16.1                          | 23      | 28      | 32      | 58   |
|                      | 9511-TC          | 2.2                      | 17.7                          | 25      | 31      | 35      | 58   |
|                      | 9512-TC          | 2.3                      | 19.3                          | 27      | 33      | 39      | 58   |
| 9513-TC              | 2.3              | 21                       | 30                            | 36      | 42      | 58      |  |
| 9514-TC              | 2.4              | 23                       | 32                            | 39      | 45      | 58      |  |
| 9515-TC              | 2.5              | 24                       | 34                            | 42      | 48      | 58      |  |
| 9516-TC              | 2.5              | 26                       | 36                            | 45      | 52      | 58      |  |
| 9518-TC              | 2.6              | 29                       | 41                            | 50      | 58      | 58      |  |
| 9520-TC              | 2.8              | 32                       | 46                            | 56      | 64      | 58      |  |
| 80°                  | 800011-TC        | .23                      | .18                           | .25     | .31     | .35     | 27   |
|                      | 800017-TC        | .28                      | .27                           | .39     | .47     | .55     | 29   |
|                      | 800025-TC        | .33                      | .40                           | .57     | .70     | .81     | 31   |
|                      | 800033-TC        | .38                      | .53                           | .75     | .92     | 1.1     | 33   |
|                      | 800039-TC        | .41                      | .63                           | .89     | 1.1     | 1.3     | 36   |
|                      | 800050-TC        | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 38   |
|                      | 800067-TC        | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 43   |
|                      | 800080-TC        | .58                      | 1.3                           | 1.8     | 2.2     | 2.6     | 43   |
|                      | 8001-TC          | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 48   |
|                      | 80015-TC         | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 48   |
|                      | 8002-TC          | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 48   |
|                      | 8003-TC          | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 48   |
|                      | 8004-TC          | 1.3                      | 6.4                           | 9.1     | 11.2    | 12.9    | 48   |
|                      | 8005-TC          | 1.4                      | 8.1                           | 11.4    | 14.0    | 16.1    | 48   |
|                      | 8006-TC          | 1.6                      | 9.7                           | 13.7    | 16.7    | 19.3    | 48   |
|                      | 8007-TC          | 1.7                      | 11.3                          | 16.0    | 19.5    | 23      | 48   |

| Spray Angle at 3 bar | Spray Tip Number | Equiv. Orifice Dia. (mm) | Capacity* (liters per minute) |         |         |         | Approx.** Spray Pattern Width (cm) (at 30 cm distance) |
|----------------------|------------------|--------------------------|-------------------------------|---------|---------|---------|--|
|                      |                  |                          | 50 bar                        | 100 bar | 150 bar | 200 bar |  |
| 80°                  | 8008-TC          | 1.8                      | 12.9                          | 18.2    | 22      | 26      | 48   |
|                      | 8009-TC          | 1.9                      | 14.5                          | 21      | 25      | 29      | 48   |
|                      | 8010-TC          | 2.0                      | 16.1                          | 23      | 28      | 33      | 48   |
|                      | 8011-TC          | 2.1                      | 17.7                          | 25      | 31      | 35      | 48   |
|                      | 8012-TC          | 2.2                      | 19.3                          | 27      | 33      | 39      | 48   |
|                      | 8013-TC          | 2.3                      | 21                            | 30      | 36      | 42      | 48   |
|                      | 8014-TC          | 2.4                      | 23                            | 32      | 39      | 45      | 48   |
|                      | 8015-TC          | 2.5                      | 24                            | 34      | 42      | 48      | 48   |
|                      | 73°              | 730023-TC                | .30                           | .37     | .52     | .64     | .74  |
| 730039-TC            |                  | .41                      | .63                           | .89     | 1.1     | 1.3     | 33   |
| 730044-TC            |                  | .43                      | .71                           | 1.0     | 1.2     | 1.4     | 33   |
| 730050-TC            |                  | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 33   |
| 730154-TC            |                  | .79                      | 2.5                           | 3.5     | 4.3     | 5.0     | 33   |
| 65°                  | 650008-TC        | .18                      | .13                           | .18     | .22     | .26     | 21   |
|                      | 650011-TC        | .23                      | .18                           | .25     | .31     | .35     | 23   |
|                      | 650017-TC        | .28                      | .27                           | .39     | .47     | .55     | 25   |
|                      | 650025-TC        | .33                      | .40                           | .57     | .70     | .81     | 26   |
|                      | 650033-TC        | .38                      | .53                           | .75     | .92     | 1.1     | 27   |
|                      | 650039-TC        | .41                      | .63                           | .89     | 1.1     | 1.3     | 30   |
|                      | 650044-TC        | .43                      | .71                           | 1.0     | 1.2     | 1.4     | 32   |
|                      | 650050-TC        | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 33   |
|                      | 650055-TC        | .48                      | .88                           | 1.3     | 1.5     | 1.8     | 33   |
|                      | 650067-TC        | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 38   |
|                      | 650080-TC        | .58                      | 1.3                           | 1.8     | 2.2     | 2.6     | 38   |
|                      | 6501-TC          | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 40   |
|                      | 65015-TC         | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 40   |
|                      | 6502-TC          | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 40   |
|                      | 6503-TC          | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 40   |
|                      | 6504-TC          | 1.3                      | 6.4                           | 9.1     | 11.2    | 12.9    | 40   |
|                      | 6505-TC          | 1.4                      | 8.1                           | 11.4    | 14.0    | 16.1    | 40   |
|                      | 6506-TC          | 1.6                      | 9.7                           | 13.7    | 16.7    | 19.3    | 40   |
|                      | 6507-TC          | 1.7                      | 11.3                          | 16.0    | 19.5    | 23      | 40   |
|                      | 6508-TC          | 1.8                      | 12.9                          | 18.2    | 22      | 26      | 40   |
| 6509-TC              | 1.9              | 14.5                     | 21                            | 25      | 29      | 40      |  |
| 6510-TC              | 2.0              | 16.1                     | 23                            | 28      | 32      | 40      |  |
| 6511-TC              | 2.1              | 17.7                     | 25                            | 31      | 35      | 40      |  |
| 6512-TC              | 2.2              | 19.3                     | 27                            | 33      | 39      | 40      |  |
| 6513-TC              | 2.3              | 21                       | 30                            | 36      | 42      | 40      |  |
| 6514-TC              | 2.4              | 23                       | 32                            | 39      | 45      | 40      |  |
| 6515-TC              | 2.5              | 24                       | 34                            | 42      | 48      | 40      |  |
| 6517-TC              | 2.6              | 27                       | 39                            | 47      | 55      | 40      |  |
| 6520-TC              | 2.7              | 32                       | 46                            | 56      | 64      | 40      |  |

\* Tabulated capacities based on water.

\*\* Spray pattern diameter is based on liquid with viscosity of 20 seconds, #4 Zahn Cup spraying at 1600 psi (110 bar). Coverage will vary with viscosities and pressures.

# High-Pressure TC Tips Performance Data

| Spray Angle at 3 bar | Spray Tip Number | Equiv. Orifice Dia. (mm) | Capacity* (liters per minute) |         |         |         | Approx.** Spray Pattern Width (cm) (at 30 cm distance) |
|----------------------|------------------|--------------------------|-------------------------------|---------|---------|---------|--|
|                      |                  |                          | 50 bar                        | 100 bar | 150 bar | 200 bar |  |
| 50°                  | 500004-TC        | .13                      | .06                           | .09     | .11     | .13     | 17   |
|                      | 500006-TC        | .15                      | .10                           | .14     | .17     | .19     | 18   |
|                      | 500008-TC        | .18                      | .13                           | .18     | .22     | .26     | 19   |
|                      | 500011-TC        | .23                      | .18                           | .25     | .31     | .35     | 20   |
|                      | 500017-TC        | .28                      | .27                           | .39     | .47     | .55     | 21   |
|                      | 500025-TC        | .33                      | .40                           | .57     | .70     | .81     | 22   |
|                      | 500033-TC        | .38                      | .53                           | .75     | .92     | 1.1     | 25   |
|                      | 500039-TC        | .41                      | .63                           | .89     | 1.1     | 1.3     | 26   |
|                      | 500044-TC        | .43                      | .71                           | 1.0     | 1.2     | 1.4     | 26   |
|                      | 500050-TC        | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 28   |
|                      | 500055-TC        | .48                      | .88                           | 1.3     | 1.5     | 1.8     | 28   |
|                      | 500067-TC        | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 30   |
|                      | 500080-TC        | .58                      | 1.3                           | 1.8     | 2.2     | 2.6     | 33   |
|                      | 5001-TC          | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 35   |
|                      | 50015-TC         | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 35   |
|                      | 5002-TC          | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 35   |
|                      | 5003-TC          | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 35   |
|                      | 5004-TC          | 1.3                      | 6.4                           | 9.1     | 11.2    | 12.9    | 35   |
|                      | 5005-TC          | 1.4                      | 8.1                           | 11.4    | 14.0    | 16.1    | 35   |
|                      | 5006-TC          | 1.6                      | 9.7                           | 13.7    | 16.7    | 19.3    | 35   |
| 5007-TC              | 1.7              | 11.3                     | 16.0                          | 19.5    | 23      | 35      |  |
| 5008-TC              | 1.8              | 12.9                     | 18.2                          | 22      | 26      | 35      |  |
| 5010-TC              | 2.0              | 16.1                     | 23                            | 28      | 32      | 35      |  |
| 5015-TC              | 2.5              | 24                       | 34                            | 42      | 48      | 35      |  |
| 40°                  | 400004-TC        | .13                      | .06                           | .09     | .11     | .13     | 16   |
|                      | 400006-TC        | .15                      | .10                           | .14     | .17     | .19     | 16   |
|                      | 400008-TC        | .18                      | .13                           | .18     | .22     | .26     | 16   |
|                      | 400011-TC        | .23                      | .18                           | .25     | .31     | .35     | 17   |
|                      | 400017-TC        | .28                      | .27                           | .39     | .47     | .55     | 19   |
|                      | 400025-TC        | .33                      | .40                           | .57     | .70     | .81     | 20   |
|                      | 400033-TC        | .38                      | .53                           | .75     | .92     | 1.1     | 21   |
|                      | 400039-TC        | .41                      | .63                           | .89     | 1.1     | 1.3     | 22   |
|                      | 400044-TC        | .43                      | .71                           | 1.0     | 1.2     | 1.4     | 24   |
|                      | 400050-TC        | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 25   |
|                      | 400055-TC        | .48                      | .88                           | 1.3     | 1.5     | 1.8     | 25   |
|                      | 400067-TC        | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 27   |
|                      | 400080-TC        | .58                      | 1.3                           | 1.8     | 2.2     | 2.6     | 27   |
|                      | 4001-TC          | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 30   |
|                      | 40013-TC         | .74                      | 2.1                           | 3.0     | 3.6     | 4.2     | 30   |
|                      | 40015-TC         | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 30   |
|                      | 4002-TC          | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 30   |
|                      | 4003-TC          | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 30   |

| Spray Angle at 3 bar | Spray Tip Number | Equiv. Orifice Dia. (mm) | Capacity* (liters per minute) |         |         |         | Approx.** Spray Pattern Width (cm) (at 30 cm distance) |
|----------------------|------------------|--------------------------|-------------------------------|---------|---------|---------|--|
|                      |                  |                          | 50 bar                        | 100 bar | 150 bar | 200 bar |  |
| 40°                  | 4004-TC          | 1.3                      | 6.4                           | 9.1     | 11.2    | 12.9    | 30   |
|                      | 4005-TC          | 1.4                      | 8.1                           | 11.4    | 14.0    | 16.1    | 30   |
|                      | 4006-TC          | 1.6                      | 9.7                           | 13.7    | 16.7    | 19.3    | 30   |
|                      | 4007-TC          | 1.7                      | 11.3                          | 16.0    | 19.5    | 23      | 30   |
|                      | 4008-TC          | 1.8                      | 12.9                          | 18.2    | 22      | 26      | 30   |
|                      | 4009-TC          | 1.9                      | 14.5                          | 21      | 25      | 29      | 30   |
|                      | 4010-TC          | 2.0                      | 16.1                          | 23      | 28      | 32      | 30   |
|                      | 4011-TC          | 2.1                      | 17.7                          | 25      | 31      | 35      | 30   |
|                      | 4015-TC          | 2.5                      | 24                            | 34      | 42      | 48      | 30   |
|                      | 25°              | 250004-TC                | .13                           | .06     | .09     | .11     | .13  |
| 250006-TC            |                  | .15                      | .10                           | .14     | .17     | .19     | 12   |
| 250008-TC            |                  | .18                      | .13                           | .18     | .22     | .26     | 13   |
| 250011-TC            |                  | .23                      | .18                           | .25     | .31     | .35     | 13   |
| 250017-TC            |                  | .28                      | .27                           | .39     | .47     | .55     | 15   |
| 250025-TC            |                  | .33                      | .40                           | .57     | .70     | .81     | 15   |
| 250033-TC            |                  | .38                      | .53                           | .75     | .92     | 1.1     | 17   |
| 250039-TC            |                  | .41                      | .63                           | .89     | 1.1     | 1.3     | 17   |
| 250050-TC            |                  | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 17   |
| 250055-TC            |                  | .48                      | .88                           | 1.3     | 1.5     | 1.8     | 17   |
| 250067-TC            |                  | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 20   |
| 250080-TC            |                  | .58                      | 1.3                           | 1.8     | 2.2     | 2.6     | 21   |
| 2501-TC              |                  | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 22   |
| 25015-TC             |                  | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 22   |
| 2502-TC              |                  | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 22   |
| 2503-TC              |                  | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 22   |
| 2504-TC              |                  | 1.3                      | 6.4                           | 9.1     | 11.2    | 12.9    | 22   |
| 2505-TC              |                  | 1.4                      | 8.1                           | 11.4    | 14.0    | 16.1    | 22   |
| 2506-TC              |                  | 1.6                      | 9.7                           | 13.7    | 16.7    | 19.3    | 22   |
| 2508-TC              |                  | 1.8                      | 12.9                          | 18.2    | 22      | 26      | 22   |
| 2510-TC              | 2.0              | 16.1                     | 23                            | 28      | 32      | 22      |  |
| 15°                  | 150004-TC        | .13                      | .06                           | .09     | .11     | .13     | 10   |
|                      | 150006-TC        | .15                      | .10                           | .14     | .17     | .19     | 10   |
|                      | 150008-TC        | .18                      | .13                           | .18     | .22     | .26     | 11   |
|                      | 150011-TC        | .23                      | .18                           | .25     | .31     | .35     | 11   |
|                      | 150017-TC        | .28                      | .27                           | .39     | .47     | .55     | 12   |
|                      | 150025-TC        | .33                      | .40                           | .57     | .70     | .81     | 12   |
|                      | 150033-TC        | .38                      | .53                           | .75     | .92     | 1.1     | 13   |
|                      | 150039-TC        | .41                      | .63                           | .89     | 1.1     | 1.3     | 15   |
|                      | 150044-TC        | .43                      | .71                           | 1.0     | 1.2     | 1.4     | 15   |
|                      | 150050-TC        | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 15   |
| 150067-TC            | .53              | 1.1                      | 1.5                           | 1.9     | 2.2     | 16      |  |
| 150080-TC            | .58              | 1.3                      | 1.8                           | 2.2     | 2.6     | 17      |  |

\* Tabulated capacities based on water.

\*\* Spray pattern diameter is based on liquid with viscosity of 20 seconds, #4 Zahn Cup spraying at 1600 psi (110 bar). Coverage will vary with viscosities and pressures.

# High-Pressure TC Tips Performance Data

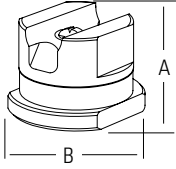
| Spray Angle at 3 bar | Spray Tip Number | Equiv. Orifice Dia. (mm) | Capacity* (liters per minute) |         |         |         | Approx.** Spray Pattern Width (cm) (at 30 cm distance) |
|----------------------|------------------|--------------------------|-------------------------------|---------|---------|---------|--|
|                      |                  |                          | 50 bar                        | 100 bar | 150 bar | 200 bar |  |
| 15°                  | 1501-TC          | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 17   |
|                      | 15015-TC         | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 17   |
|                      | 1502-TC          | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 17   |
|                      | 1503-TC          | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 17   |
|                      | 1504-TC          | 1.3                      | 6.4                           | 9.1     | 11.2    | 12.9    | 17   |
|                      | 1505-TC          | 1.4                      | 8.1                           | 11.4    | 14.0    | 16.1    | 17   |
|                      | 1506-TC          | 1.6                      | 9.7                           | 13.7    | 16.7    | 19.3    | 17   |
|                      | 1507-TC          | 1.7                      | 11.3                          | 16.0    | 19.5    | 23      | 17   |
|                      | 1508-TC          | 1.8                      | 12.9                          | 18.2    | 22      | 26      | 17   |
|                      | 1510-TC          | 2.0                      | 16.1                          | 23      | 28      | 32      | 17   |
|                      | 1515-TC          | 2.5                      | 24                            | 34      | 42      | 48      | 17   |
| 10°                  | 100004-TC        | .13                      | .06                           | .09     | .11     | .13     | 7  |
|                      | 100006-TC        | .15                      | .10                           | .14     | .17     | .19     | 7  |
|                      | 100008-TC        | .18                      | .13                           | .18     | .22     | .26     | 9  |
|                      | 100011-TC        | .23                      | .18                           | .25     | .31     | .35     | 9  |
|                      | 100017-TC        | .28                      | .27                           | .39     | .47     | .55     | 10   |
|                      | 100025-TC        | .33                      | .40                           | .57     | .70     | .81     | 10   |
|                      | 100033-TC        | .38                      | .53                           | .75     | .92     | 1.1     | 11   |
|                      | 100039-TC        | .41                      | .63                           | .89     | 1.1     | 1.3     | 12   |

| Spray Angle at 3 bar | Spray Tip Number | Equiv. Orifice Dia. (mm) | Capacity* (liters per minute) |         |         |         | Approx.** Spray Pattern Width (cm) (at 30 cm distance) |
|----------------------|------------------|--------------------------|-------------------------------|---------|---------|---------|--|
|                      |                  |                          | 50 bar                        | 100 bar | 150 bar | 200 bar |  |
| 10°                  | 100050-TC        | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 12   |
|                      | 100067-TC        | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 13   |
|                      | 100080-TC        | .58                      | 1.3                           | 1.8     | 2.2     | 2.6     | 13   |
|                      | 1001-TC          | .66                      | 1.6                           | 2.3     | 2.8     | 3.2     | 15   |
|                      | 10015-TC         | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 15   |
|                      | 1002-TC          | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 15   |
|                      | 5°               | 050004-TC                | .13                           | .06     | .09     | .11     | .13  |
| 050008-TC            |                  | .18                      | .13                           | .18     | .22     | .26     | 6  |
| 050011-TC            |                  | .23                      | .18                           | .25     | .31     | .35     | 6  |
| 050017-TC            |                  | .28                      | .27                           | .39     | .47     | .55     | 7  |
| 050025-TC            |                  | .33                      | .40                           | .57     | .70     | .81     | 7  |
| 050033-TC            |                  | .38                      | .53                           | .75     | .92     | 1.1     | 8  |
| 050039-TC            |                  | .41                      | .63                           | .89     | 1.1     | 1.3     | 10   |
| 050050-TC            |                  | .46                      | .81                           | 1.1     | 1.4     | 1.6     | 10   |
| 050067-TC            |                  | .53                      | 1.1                           | 1.5     | 1.9     | 2.2     | 10   |
| 0501-TC              |                  | .66                      | 1.1                           | 1.5     | 1.9     | 2.2     | 10   |
| 05015-TC             |                  | .79                      | 2.4                           | 3.4     | 4.2     | 4.8     | 10   |
| 0502-TC              |                  | .91                      | 3.2                           | 4.6     | 5.6     | 6.4     | 10   |
| 0503-TC              |                  | 1.1                      | 4.8                           | 6.8     | 8.4     | 9.7     | 10   |

\* Tabulated capacities based on water.

\*\* Spray pattern diameter is based on liquid with viscosity of 20 seconds, #4 Zahn Cup spraying at 1600 psi (110 bar). Coverage will vary with viscosities and pressures.

## Dimensions & Weights

|   | A      | B     | Net Weight |
|---|--------|-------|------------|
|  | 9.5 mm | 15 mm | .01 kg     |

Based on largest/heaviest version of each type.

## Ordering Information

| High-Pressure TC Spray Tip |             |               |               |
|----------------------------|-------------|---------------|---------------|
| <b>T P</b>                 | <b>1 5</b>  | <b>0 4</b>    | <b>- T C</b>  |
|                            |             |               |               |
| Tip Code                   | Spray Angle | Capacity Size | Material Code |