



Flat fan nozzles

Series 632 / 633



| Spray angle | Type | Ordering no. | | | | Material no. | | | | Connection | | | | Equivalent Orifice diam. (in.) | Free passage (in.) | Flow Rate (Gallons Per Minute) | | | | | | | | Spray Coverage @ 30 psi | |
|-------------|---------|------------------|------------------|--------|----|--------------|------|------|------|------------|--------|-------|------|--------------------------------|--------------------|--------------------------------|--------|--------|--------|---------|-------|-------|--|-------------------------|--|
| | | 303 SS | | 316 SS | | Brass | | PVDF | | Male NPT | | | | | | liters per minute | 40 psi | 60 psi | 80 psi | 100 psi | H=10" | H=20" | | | |
| | | 16 ¹⁾ | 17 ²⁾ | 30 | 5E | 1/8" | 1/4" | 3/8" | 1/2" | 10 psi | 20 psi | 2 bar | | | | | | | | | | | | | |
| 45° | 632.303 | ○ | ○ | ○ | ○ | BA | BC | - | - | .028 | .020 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | .16 | 6 | 11 | | | | |
| | 632.363 | ○ | ○ | ○ | ○ | BA | BC | - | - | .039 | .024 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | .31 | 6 | 11 | | | | |
| | 632.403 | ○ | ○ | ○ | ○ | BA | BC | - | - | .047 | .035 | .16 | .22 | 1.0 | .31 | .38 | .44 | .49 | .49 | 7 | 13 | | | | |
| | 632.483 | ○ | ○ | ○ | ○ | BA | BC | - | - | .059 | .043 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | .78 | 7 | 13 | | | | |
| | 632.563 | ○ | ○ | ○ | ○ | BA | BC | - | - | .079 | .055 | .39 | .55 | 2.5 | .78 | .95 | 1.1 | 1.2 | 1.2 | 7 | 14 | | | | |
| | 632.603 | ○ | ○ | ○ | ○ | BA | BC | - | - | .087 | .067 | .49 | .69 | 3.2 | .98 | 1.2 | 1.4 | 1.5 | 1.5 | 7 | 14 | | | | |
| | 632.643 | ○ | ○ | ○ | ○ | BA | BC | - | - | .099 | .063 | .62 | .88 | 4.0 | 1.2 | 1.5 | 1.8 | 2 | 2 | 12 | 22 | | | | |
| | 632.673 | ○ | ○ | ○ | ○ | - | BC | BE | - | .106 | .083 | .74 | 1.0 | 4.8 | 1.5 | 1.8 | 2.1 | 2.3 | 2.3 | 8 | 15 | | | | |
| | 632.723 | ○ | ○ | ○ | ○ | - | BC | BE | - | .118 | .095 | .98 | 1.4 | 6.3 | 2.0 | 2.4 | 2.8 | 3.1 | 3.1 | 8 | 15 | | | | |
| | 632.763 | ○ | ○ | ○ | ○ | - | BC | BE | - | .138 | .091 | 1.2 | 1.8 | 8.0 | 2.5 | 3 | 3.5 | 3.9 | 3.9 | 12 | 23 | | | | |
| | 632.803 | ○ | ○ | ○ | ○ | - | BC | BE | BG | .158 | .118 | 1.6 | 2.2 | 10.0 | 3.1 | 3.8 | 4.4 | 4.9 | 4.9 | 8 | 15 | | | | |
| | 632.843 | ○ | ○ | ○ | ○ | - | - | - | BG | .177 | .138 | 1.9 | 2.7 | 12.5 | 3.9 | 4.8 | 5.5 | 6.1 | 6.1 | 8 | 15 | | | | |
| | 632.883 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .197 | .157 | 2.5 | 3.5 | 16.0 | 5.0 | 6.1 | 7.0 | 7.9 | 7.9 | 9 | 17 | | | | |
| | 632.923 | ○ | ○ | ○ | ○ | - | - | - | BG | .217 | .165 | 3.1 | 4.4 | 20.0 | 6.2 | 7.6 | 8.8 | 9.8 | 9.8 | 9 | 17 | | | | |
| 632.963 | ○ | ○ | ○ | ○ | - | - | - | BG | .236 | .185 | 3.9 | 5.5 | 25.0 | 7.8 | 9.5 | 11.0 | 12.3 | 12.3 | 9 | 17 | | | | | |
| 60° | 632.304 | ○ | ○ | ○ | ○ | BA | BC | - | - | .028 | .016 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | .16 | 8 | 17 | | | | |
| | 632.334 | ○ | ○ | ○ | ○ | BA | BC | - | - | .035 | .020 | .07 | .10 | .45 | .14 | .17 | .20 | .22 | .22 | 9 | 17 | | | | |
| | 632.364 | ○ | ○ | ○ | ○ | BA | BC | - | - | .039 | .024 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | .31 | 9 | 18 | | | | |
| | 632.404 | ○ | ○ | ○ | ○ | BA | BC | - | - | .047 | .032 | .16 | .22 | 1.0 | .31 | .38 | .44 | .49 | .49 | 10 | 19 | | | | |
| | 632.444 | ○ | ○ | ○ | ○ | BA | BC | - | - | .053 | .035 | .19 | .27 | 1.3 | .39 | .48 | .55 | .61 | .61 | 10 | 19 | | | | |
| | 632.484 | ○ | ○ | ○ | ○* | BA | BC | - | - | .059 | .039 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | .78 | 10 | 20 | | | | |
| | 632.514 | ○ | ○ | ○ | ○ | BA | BC | - | - | .065 | .043 | .29 | .42 | 1.9 | .59 | .72 | .83 | .93 | .93 | 11 | 20 | | | | |
| | 632.564 | ○ | ○ | ○ | ○ | BA | BC | - | - | .079 | .051 | .39 | .55 | 2.5 | .78 | .95 | 1.1 | 1.2 | 1.2 | 11 | 21 | | | | |
| | 632.604 | ○ | ○ | ○ | ○ | BA | BC | - | - | .087 | .059 | .49 | .69 | 3.2 | .98 | 1.2 | 1.4 | 1.5 | 1.5 | 11 | 22 | | | | |
| | 632.644 | ○ | ○ | ○ | ○* | - | BC | BE | - | .099 | .063 | .62 | .88 | 4.0 | 1.2 | 1.5 | 1.8 | 2.0 | 2.0 | 12 | 22 | | | | |
| | 632.674 | ○ | ○ | ○ | ○* | - | BC | BE | - | .106 | .071 | .74 | 1.0 | 4.8 | 1.5 | 1.8 | 2.1 | 2.3 | 2.3 | 12 | 23 | | | | |
| | 632.724 | ○ | ○ | ○ | ○* | - | BC | BE | - | .118 | .083 | .98 | 1.4 | 6.3 | 2.0 | 2.4 | 2.8 | 3.1 | 3.1 | 12 | 23 | | | | |
| | 632.764 | ○ | ○ | ○ | ○ | - | BC | BE | - | .138 | .091 | 1.2 | 1.8 | 8.0 | 2.5 | 3.0 | 3.5 | 3.9 | 3.9 | 12 | 23 | | | | |
| | 632.804 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .158 | .102 | 1.6 | 2.2 | 10.0 | 3.1 | 3.8 | 4.4 | 4.9 | 4.9 | 12 | 23 | | | | |
| | 632.844 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .177 | .118 | 1.9 | 2.7 | 12.5 | 3.9 | 4.8 | 5.5 | 6.1 | 6.1 | 12 | 23 | | | | |
| | 632.884 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .197 | .134 | 2.5 | 3.5 | 16.0 | 5.0 | 6.1 | 7.0 | 7.9 | 7.9 | 12 | 22 | | | | |
| 632.924 | ○ | ○ | ○ | ○ | - | - | - | BG | .217 | .165 | 3.1 | 4.4 | 20.0 | 6.2 | 7.6 | 8.8 | 9.8 | 9.8 | 13 | 25 | | | | | |
| 632.964 | ○ | ○ | ○ | ○ | - | - | - | BG | .236 | .185 | 3.9 | 5.5 | 25.0 | 7.8 | 9.5 | 11.0 | 12.3 | 12.3 | 13 | 25 | | | | | |
| 633.004 | ○ | ○ | ○ | ○ | - | - | - | BG | .276 | .205 | 4.9 | 6.9 | 31.5 | 9.8 | 12.0 | 13.9 | 15.5 | 15.5 | 13 | 25 | | | | | |
| 633.044 | ○ | ○ | ○ | ○ | - | - | - | BG | .315 | .217 | 6.2 | 8.8 | 40.0 | 12.4 | 15.2 | 17.6 | 19.6 | 19.6 | 13 | 23 | | | | | |
| 633.084 | ○ | ○ | ○ | ○ | - | - | - | BG | .354 | .268 | 7.7 | 11.0 | 50.0 | 15.5 | 19.0 | 21.9 | 24.5 | 24.5 | 13 | 25 | | | | | |
| 75° | 632.145 | ○ | - | ○ | - | BA | BC | - | - | .006 | .012 | .008 | .011 | .05 | .016 | .019 | .022 | .025 | .025 | 11 | 22 | | | | |
| | 632.165 | ○ | - | ○ | - | BA | BC | - | - | .008 | .013 | .011 | .015 | .07 | .022 | .027 | .031 | .034 | .034 | 11 | 22 | | | | |
| | 632.185 | ○ | - | ○ | - | BA | BC | - | - | .014 | .008 | .012 | .018 | .08 | .025 | .030 | .035 | .039 | .039 | 12 | 23 | | | | |
| | 632.215 | ○ | - | ○ | - | BA | BC | - | - | .016 | .008 | .017 | .024 | .11 | .034 | .042 | .048 | .054 | .054 | 12 | 23 | | | | |
| | 632.245 | ○ | - | ○ | - | BA | BC | - | - | .020 | .012 | .025 | .035 | .16 | .05 | .06 | .07 | .08 | .08 | 12 | 23 | | | | |
| | 632.275 | ○ | - | ○ | - | BA | BC | - | - | .024 | .012 | .03 | .05 | .22 | .07 | .08 | .10 | .11 | .11 | 12 | 23 | | | | |

* Only available in connection BC
 + Only available in connection BG

Continued on next page.

Other sizes available upon request.

Example Type + Material no. + Conn. = Ordering no.
 for ordering: 632.403 + 16 + BA = 632.403.16.BA

1) We reserve the right to deliver AISI 303 or AISI 304 under the material no. 16.
 2) We reserve the right to deliver AISI 316L under the material no. 17.

A listing of alternatives for various assembly possibilities is shown in the Accessories section beginning on page 127.





Flat fan nozzles

Series 632 / 633



| Spray angle A | Ordering no. | | | | | | | | | | Equivalent Orifice diam. (in.) | Free passage (in.) | Flow Rate (Gallons Per Minute) | | | | | | Spray Coverage @ 30 psi | |
|------------------|--------------|----------------------------|----------------------------|-------------|------------|---------------------------------|----|----|------|-----------|-----------------------------------|-----------------------|-----------------------------------|----------------------------------|-----------|-----------|-----------|------------|----------------------------|-------|
| | Type | Material no. | | | | Connection | | | | 10 psi | | | 20 psi | liters per minute 2 bar | 40 psi | 60 psi | 80 psi | 100 psi | H=10" | H=20" |
| | | 303 SS 16 ¹⁾ | 316 SS 17 ²⁾ | Brass 30 | PVDF 5E | Male NPT 1/8" 1/4" 3/8" 1/2" | | | | | | | | | | | | | | |
| 90° | 632. 216 | ○ | - | ○ | - | BA | BC | - | - | .016 | .008 | .017 | .024 | .11 | .034 | .042 | .048 | .054 | 15 | 28 |
| | 632. 276 | ○ | - | ○ | - | BA | BC | - | - | .024 | .012 | .034 | .05 | .22 | .07 | .08 | .10 | .11 | 15 | 29 |
| | 632. 306 | ○ | ○ | ○ | ○ | BA | BC | - | - | .028 | .016 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | 15 | 29 |
| | 632. 336 | ○ | ○ | ○ | ○ | BA | BC | - | - | .035 | .020 | .07 | .10 | .45 | .14 | .17 | .20 | .22 | 16 | 31 |
| | 632. 366 | ○ | ○ | ○ | ○ | BA | BC | - | - | .039 | .020 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | 17 | 32 |
| | 632. 406 | ○ | ○ | ○ | ○ | BA | BC | - | - | .047 | .028 | .16 | .22 | 1.0 | .31 | .38 | .44 | .49 | 17 | 32 |
| | 632. 446 | ○ | ○ | ○ | ○ | BA | BC | - | - | .053 | .032 | .19 | .27 | 1.3 | .39 | .48 | .55 | .61 | 17 | 33 |
| | 632. 486 | ○ | ○ | ○ | ○ | BA | BC | - | - | .059 | .032 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | 17 | 33 |
| | 632. 516 | ○ | ○ | ○ | ○ | BA | BC | - | - | .065 | .035 | .29 | .42 | 1.9 | .59 | .72 | .83 | .93 | 17 | 33 |
| | 632. 566 | ○ | ○ | ○ | ○ | BA | BC | - | - | .079 | .043 | .39 | .55 | 2.5 | .78 | .95 | 1.1 | 1.2 | 18 | 33 |
| | 632. 606 | ○ | ○ | ○ | ○ | BA | BC | - | - | .087 | .047 | .49 | .69 | 3.2 | .98 | 1.2 | 1.4 | 1.5 | 18 | 34 |
| | 632. 646 | ○ | ○ | ○ | ○* | - | BC | BE | - | .099 | .051 | .62 | .88 | 4.0 | 1.2 | 1.5 | 1.8 | 2.0 | 27 | 51 |
| | 632. 676 | ○ | ○ | ○ | ○* | - | BC | BE | - | .106 | .055 | .74 | 1.0 | 4.8 | 1.5 | 1.8 | 2.1 | 2.3 | 18 | 34 |
| | 632. 726 | ○ | ○ | ○ | ○* | - | BC | BE | - | .118 | .067 | .98 | 1.4 | 6.3 | 2.0 | 2.4 | 2.8 | 3.1 | 19 | 35 |
| | 632. 766 | ○ | ○ | ○ | ○* | - | BC | BE | - | .138 | .067 | 1.2 | 1.8 | 8.0 | 2.5 | 3.0 | 3.5 | 3.9 | 30 | 55 |
| | 632. 806 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .158 | .095 | 1.6 | 2.2 | 10.0 | 3.1 | 3.8 | 4.4 | 4.9 | 19 | 35 |
| 632. 846 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .177 | .095 | 1.9 | 2.7 | 12.5 | 3.9 | 4.8 | 5.5 | 6.1 | 19 | 35 | |
| 632. 886 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .197 | .122 | 2.5 | 3.5 | 16.0 | 5.0 | 6.1 | 7.0 | 7.9 | 19 | 36 | |
| 632. 926 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .217 | .165 | 3.1 | 4.4 | 20.0 | 6.2 | 7.6 | 8.8 | 9.8 | 21 | 40 | |
| 632. 966 | ○ | ○ | ○ | - | - | - | - | BG | .236 | .185 | 3.9 | 5.5 | 25.0 | 7.8 | 9.5 | 11.0 | 12.3 | 21 | 40 | |
| 120° | 632. 187 | ○ | - | ○ | - | BA | BC | - | - | .014 | .008 | .012 | .018 | .08 | .025 | .030 | .035 | .039 | 25 | 47 |
| | 632. 217 | ○ | - | ○ | - | BA | BC | - | - | .016 | .008 | .017 | .024 | .11 | .034 | .042 | .048 | .054 | 25 | 48 |
| | 632. 247 | ○ | - | ○ | - | BA | BC | - | - | .020 | .008 | .025 | .035 | .16 | .05 | .06 | .07 | .08 | 26 | 48 |
| | 632. 277 | ○ | - | ○ | - | BA | BC | - | - | .024 | .012 | .034 | .05 | .22 | .07 | .08 | .10 | .11 | 26 | 49 |
| | 632. 307 | ○ | ○ | ○ | ○ | BA | BC | - | - | .028 | .012 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | 26 | 49 |
| | 632. 337 | ○ | ○ | ○ | ○ | BA | BC | - | - | .035 | .016 | .07 | .10 | .45 | .14 | .17 | .20 | .22 | 26 | 50 |
| | 632. 367 | ○ | ○ | ○ | ○ | BA | BC | - | - | .039 | .020 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | 26 | 50 |
| | 632. 407 | ○ | ○ | ○ | ○ | BA | BC | - | - | .047 | .024 | .16 | .22 | 1.0 | .31 | .38 | .44 | .49 | 26 | 50 |
| | 632. 447 | ○ | ○ | ○ | ○ | BA | BC | - | - | .053 | .024 | .19 | .27 | 1.3 | .39 | .48 | .55 | .61 | 27 | 50 |
| | 632. 487 | ○ | ○ | ○ | ○ | BA | BC | - | - | .059 | .024 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | 27 | 50 |
| | 632. 517 | ○ | ○ | ○ | ○ | BA | BC | - | - | .065 | .035 | .29 | .42 | 1.9 | .59 | .72 | .83 | .93 | 27 | 50 |
| | 632. 567 | ○ | ○ | ○ | ○ | BA | BC | - | - | .079 | .035 | .39 | .55 | 2.5 | .78 | .95 | 1.1 | 1.2 | 27 | 51 |
| | 632. 607 | ○ | ○ | ○ | ○ | BA | BC | - | - | .087 | .043 | .49 | .69 | 3.2 | .98 | 1.2 | 1.4 | 1.5 | 27 | 51 |
| | 632. 647 | ○ | ○ | ○ | - | - | BC | BE | - | .099 | .051 | .62 | .88 | 4.0 | 1.2 | 1.5 | 1.8 | 2.0 | 27 | 51 |
| | 632. 677 | ○ | ○ | ○ | ○* | - | BC | BE | - | .106 | .055 | .74 | 1.0 | 4.8 | 1.5 | 1.8 | 2.1 | 2.3 | 28 | 52 |
| | 632. 727 | ○ | ○ | ○ | ○* | - | BC | BE | - | .118 | .063 | .98 | 1.4 | 6.3 | 2.0 | 2.4 | 2.8 | 3.1 | 29 | 54 |
| | 632. 767 | ○ | ○ | ○ | ○* | - | BC | BE | - | .138 | .067 | 1.2 | 1.8 | 8.0 | 2.5 | 3.0 | 3.5 | 3.9 | 30 | 55 |
| | 632. 807 | ○ | ○ | ○ | - | - | BC | - | BG | .158 | .079 | 1.6 | 2.2 | 10.0 | 3.1 | 3.8 | 4.4 | 4.9 | 31 | 57 |
| 632. 847 | ○+ | ○+ | ○+ | ○* | - | BC | - | BG | .177 | .091 | 1.9 | 2.7 | 12.5 | 3.9 | 4.8 | 5.5 | 6.1 | 31 | 57 | |
| 632. 887 | ○ | ○ | ○ | - | - | - | - | BG | .197 | .102 | 2.5 | 3.5 | 16.0 | 5.0 | 6.1 | 7.0 | 7.9 | 31 | 57 | |
| 632. 927 | ○ | ○ | ○ | - | - | - | - | BG | .217 | .114 | 3.1 | 4.4 | 20.0 | 6.2 | 7.6 | 8.8 | 9.8 | 31 | 57 | |

* Only available in connection BC
+ Only available in connection BG

Other sizes available upon request.

Example Type + Material no. + Conn. = Ordering no.
for ordering: 632. 406 + 16 + BA = 632. 406. 16. BA

1) We reserve the right to deliver AISI 303 or AISI 304 under the material no. 16.
2) We reserve the right to deliver AISI 316L under the material no. 17.

A listing of alternatives for various assembly possibilities is shown in the Accessories section beginning on page 127.

Conversion formula for the above series: $V_2 = V_1 \sqrt{\frac{P_2}{P_1}}$
(See page 12 for symbol definitions.)



Flat fan