



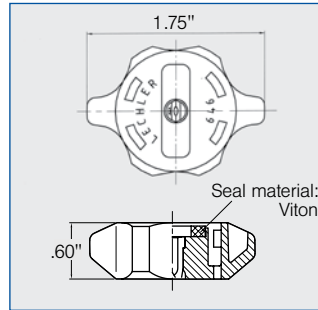
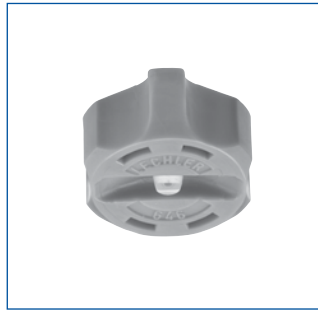
Flat fan nozzles with bayonet quick-release cap Series 646



Quick and easy assembly with bayonet quick-release cap. Adjustable spray direction. Even liquid distribution.

Applications:

- Printed circuit board etching
- Belt cleaning
- Surface treatment
- Spray cleaning
- Coating processes
- Parts washing



| Spray angle | Ordering no. | | Equivalent Orifice diam. (in.) | Free passage (in.) | Flow Rate (Gallons Per Minute) | | | | | | Spray Coverage (in.) @ 30 psi | | |
|-------------|--------------|--------------|--------------------------------|--------------------|--------------------------------|--------|----------------------------|--------|--------|--------|-------------------------------|---------------|----|
| | Type | Material no. | | | 10 psi | 20 psi | litres per minute 2 bar | 40 psi | 60 psi | 80 psi | 100 psi | H=10" H=24" | |
| | | | | | | | | | | | | PDF 5E | |
| 20° | 646. 301 | ○ | .028 | .024 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | 3 | 6 |
| | 646. 361 | ○ | .039 | .032 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | 3 | 6 |
| | 646. 441 | ○ | .053 | .043 | .19 | .27 | 1.3 | .39 | .48 | .55 | .61 | 3 | 6 |
| | 646. 481 | ○ | .059 | .047 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | 3 | 6 |
| 30° | 646. 302 | ○ | .028 | .020 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | 4 | 11 |
| | 646. 362 | ○ | .039 | .028 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | 4 | 11 |
| | 646. 402 | ○ | .047 | .035 | .16 | .22 | 1.0 | .31 | .38 | .44 | .49 | 4 | 11 |
| | 646. 482 | ○ | .059 | .043 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | 4 | 11 |
| 60° | 646. 562 | ○ | .079 | .059 | .39 | .55 | 2.5 | .78 | .95 | 1.1 | 1.2 | 4 | 11 |
| | 646. 304 | ○ | .028 | .016 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | 9 | 22 |
| | 646. 334 | ○ | .035 | .020 | .07 | .10 | .45 | .14 | .17 | .20 | .22 | 9 | 22 |
| | 646. 364 | ○ | .039 | .024 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | 9 | 22 |
| | 646. 404 | ○ | .047 | .032 | .16 | .22 | 1.0 | .31 | .38 | .44 | .49 | 9 | 22 |
| | 646. 444 | ○ | .053 | .035 | .19 | .27 | 1.3 | .39 | .48 | .55 | .61 | 9 | 22 |
| | 646. 484 | ○ | .059 | .039 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | 9 | 22 |
| | 646. 514 | ○ | .065 | .043 | .29 | .42 | 1.9 | .59 | .72 | .83 | .93 | 9 | 22 |
| 90° | 646. 564 | ○ | .079 | .051 | .39 | .55 | 2.5 | .78 | .95 | 1.1 | 1.2 | 9 | 22 |
| | 646. 604 | ○ | .087 | .059 | .49 | .69 | 3.2 | .98 | 1.2 | 1.4 | 1.5 | 9 | 22 |
| | 646. 306 | ○ | .028 | .016 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | 17 | 40 |
| | 646. 336 | ○ | .035 | .020 | .07 | .10 | .45 | .14 | .17 | .20 | .22 | 17 | 40 |
| | 646. 366 | ○ | .039 | .020 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | 17 | 40 |
| | 646. 406 | ○ | .047 | .028 | .16 | .22 | 1.0 | .31 | .38 | .44 | .49 | 17 | 40 |
| | 646. 446 | ○ | .053 | .032 | .19 | .27 | 1.3 | .39 | .48 | .55 | .61 | 17 | 40 |
| | 646. 486 | ○ | .059 | .032 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | 17 | 40 |
| 120° | 646. 516 | ○ | .065 | .035 | .29 | .42 | 1.9 | .59 | .72 | .83 | .93 | 17 | 40 |
| | 646. 566 | ○ | .079 | .043 | .39 | .55 | 2.5 | .78 | .95 | 1.1 | 1.2 | 17 | 40 |
| | 646. 606 | ○ | .087 | .047 | .49 | .69 | 3.2 | .98 | 1.2 | 1.4 | 1.5 | 17 | 40 |
| | 646. 307 | ○ | .028 | .012 | .05 | .07 | .32 | .10 | .12 | .14 | .16 | 29 | 69 |
| | 646. 337 | ○ | .035 | .016 | .07 | .10 | .45 | .14 | .17 | .20 | .22 | 29 | 69 |
| | 646. 367 | ○ | .039 | .020 | .10 | .14 | .63 | .20 | .24 | .28 | .31 | 29 | 69 |
| | 646. 407 | ○ | .047 | .024 | .16 | .22 | 1.0 | .31 | .38 | .44 | .49 | 29 | 69 |
| | 646. 447 | ○ | .053 | .024 | .19 | .27 | 1.3 | .39 | .48 | .55 | .61 | 29 | 69 |
| | 646. 487 | ○ | .059 | .024 | .25 | .35 | 1.6 | .50 | .61 | .70 | .78 | 29 | 69 |
| | 646. 517 | ○ | .065 | .035 | .29 | .42 | 1.9 | .59 | .72 | .83 | .93 | 29 | 69 |
| 646. 567 | ○ | .079 | .035 | .39 | .55 | 2.5 | .78 | .95 | 1.1 | 1.2 | 29 | 69 | |
| 646. 607 | ○ | .087 | .043 | .49 | .69 | 3.2 | .98 | 1.2 | 1.4 | 1.5 | 29 | 69 | |

Example Type + Material no. = Ordering no.
for ordering: 646. 406 + 5E = 646. 406. 5E



Bayonet quick-release base options for use with Series 646 nozzle

Conversion formula for the above series: $V_2 = V_1 \sqrt{\frac{P_2}{P_1}}$

