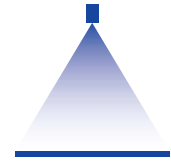


➤ Nozzle systems for surface treatment Series 676/677 MEMOSPRAY



Features:

- Retention of the adjusted spray direction when changing nozzles
- Simple, quick nozzle assembly without the need for tools
- Many combination options
- Large range of flow rates, spray angles and materials



Applications:

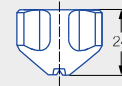
- Degreasing
- Phosphating in surface treatment
- Industrial cleaning
- Container washers

Assembly example



① a Flat fan nozzle

Incl. gasket 095.015.7A.05.65
(Material: Viton)

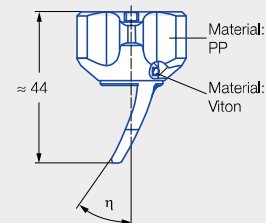


| Designation | Spray angle | Ordering no. | | | | Narrowest free cross section Ø [mm] | V̇ [l/min] | | | | | Weight [g] | | | | |
|---------------------|---------------|---------------|-------------------------------|--------------------------------|--------------------------------|--|--------------------|--------------|--------------|--------------|-------|------------------------|-------------------------|------------|--------------------|------|
| | | Type | Mat. no. | | | | p [bar] | | | | | PP/Stainless steel 303 | PP/Stainless steel 316L | PP/Ceramic | Polypropylene (PP) | |
| | | | 8F | 8R | E8 | | 53 | 1.0 | 1.5 | 2.0 | 2.5 | | | | | 5.0 |
| | | | Housing: PP Insert: 303 SS | Housing: PP Insert: 316L SS | Housing: PP Insert: Ceramic | | Polypropylene (PP) | | | | | | | | | |
| ① a Flat fan nozzle | 30° | 676.642.xx.40 | ● | ● | | | 1.60 | 2.83 | 3.46 | 4.00 | 4.47 | 6.33 | 15.00 | 15.00 | - | - |
| | | 676.722.xx.40 | ● | ● | | | 2.10 | 4.46 | 5.46 | 6.30 | 7.04 | 9.96 | 15.00 | 15.00 | - | - |
| | | 676.762.xx.40 | ● | ● | | | 2.30 | 5.66 | 6.93 | 8.00 | 8.94 | 12.65 | 15.00 | 15.00 | - | - |
| | | 676.802.xx.40 | ● | ● | | | 2.60 | 7.07 | 8.66 | 10.00 | 11.18 | 15.81 | 15.00 | 15.00 | - | - |
| | | 676.842.xx.40 | ● | ● | | | 3.00 | 8.84 | 10.82 | 12.50 | 13.97 | 19.76 | 15.00 | 15.00 | - | - |
| | | 676.882.xx.40 | ● | ● | | | 3.40 | 11.31 | 13.86 | 16.00 | 17.89 | 25.30 | 15.00 | 15.00 | - | - |
| | | 676.922.xx.40 | ● | ● | | | 4.10 | 14.14 | 17.32 | 20.00 | 22.36 | 31.62 | 15.00 | 15.00 | - | - |
| | | 676.962.xx.40 | ● | ● | | | 4.20 | 17.68 | 21.65 | 25.00 | 27.95 | 39.53 | 15.00 | 15.00 | - | - |
| | 677.002.xx.40 | ● | | | | 4.70 | 22.27 | 27.28 | 31.50 | 35.22 | 49.81 | 15.00 | - | - | - | |
| | 60° | 676.644.xx.40 | ● | ● | | | 1.60 | 2.83 | 3.46 | 4.00 | 4.47 | 6.33 | 15.00 | 15.00 | - | - |
| | | 676.724.xx.40 | ● | ● | | | 2.10 | 4.46 | 5.46 | 6.30 | 7.04 | 9.96 | 15.00 | 15.00 | - | - |
| | | 676.764.xx.40 | ● | ● | | | 2.30 | 5.66 | 6.93 | 8.00 | 8.94 | 12.65 | 15.00 | 15.00 | - | - |
| | | 676.804.xx.40 | ● | ● | | | 2.60 | 7.07 | 8.66 | 10.00 | 11.18 | 15.81 | 15.00 | 15.00 | - | - |
| | | 676.844.xx.40 | ● | ● | | | 3.00 | 8.84 | 10.82 | 12.50 | 13.97 | 19.76 | 15.00 | 15.00 | - | - |
| | | 676.884.xx.40 | ● | ● | ● | ● | 3.40 | 11.31 | 13.86 | 16.00 | 17.89 | 25.30 | 15.00 | 15.00 | 10.00 | 8.00 |
| | | 676.924.xx.40 | ● | ● | ● | ● | 4.10 | 14.14 | 17.32 | 20.00 | 22.36 | 31.62 | 15.00 | 15.00 | 10.00 | 8.00 |
| 676.964.xx.40 | | ● | ● | ● | ● | 4.20 | 17.68 | 21.65 | 25.00 | 27.95 | 39.53 | 15.00 | 15.00 | 10.00 | 8.00 | |
| 677.004.xx.40 | ● | ● | ● | ● | 4.70 | 22.27 | 27.28 | 31.50 | 35.22 | 49.81 | 15.00 | 15.00 | 10.00 | 8.00 | | |
| 677.044.xx.40 | ● | ● | | | 5.50 | 28.28 | 34.64 | 40.00 | 44.72 | 63.25 | 15.00 | 15.00 | - | - | | |
| 677.084.xx.40 | ● | ● | | | 6.20 | 35.36 | 43.30 | 50.00 | 55.90 | 79.06 | 15.00 | 15.00 | - | - | | |

| Designation | Spray angle | Ordering no. | | | | | Narrowest free cross section \varnothing [mm] | \dot{V} [l/min] | | | | | Weight [g] | | | |
|---------------------|---------------|------------------|-------------------------------|--------------------------------|--------------------------------|--------------------|---|-------------------|-------|-------|-------|-------|------------------------|-------------------------|------------|--------------------|
| | | Type | Mat. no. | | | | | p [bar] | | | | | PP/Stainless steel 303 | PP/Stainless steel 316L | PP/Ceramic | Polypropylene (PP) |
| | | | 8F | 8R | E8 | 53 | | 1.0 | 1.5 | 2.0 | 2.5 | 5.0 | | | | |
| | | | Housing: PP Insert: 303 SS | Housing: PP Insert: 316L SS | Housing: PP Insert: Ceramic | Polypropylene (PP) | | | | | | | | | | |
| ① a Flat fan nozzle | 90° | 676.646.xx.40 | ● | ● | | | 1.60 | 2.83 | 3.46 | 4.00 | 4.47 | 6.33 | 15.00 | 15.00 | - | - |
| | | 676.726.xx.40 | ● | ● | | | 2.10 | 4.46 | 5.46 | 6.30 | 7.04 | 9.96 | 15.00 | 15.00 | - | - |
| | | 676.766.xx.40 | ● | ● | | | 2.30 | 5.66 | 6.93 | 8.00 | 8.94 | 12.65 | 15.00 | 15.00 | - | - |
| | | 676.806.xx.40 | ● | ● | | | 2.60 | 7.07 | 8.66 | 10.00 | 11.18 | 15.81 | 15.00 | 15.00 | - | - |
| | | 676.846.xx.40 | ● | ● | | | 3.00 | 8.84 | 10.82 | 12.50 | 13.97 | 19.76 | 15.00 | 15.00 | - | - |
| | | 676.886.xx.40 | ● | ● | | | 3.40 | 11.31 | 13.86 | 16.00 | 17.89 | 25.30 | 15.00 | 15.00 | - | - |
| | | 676.926.xx.40 | ● | ● | | | 4.10 | 14.14 | 17.32 | 20.00 | 22.36 | 31.62 | 15.00 | 15.00 | - | - |
| | 676.966.xx.40 | ● | ● | | | 4.20 | 17.68 | 21.65 | 25.00 | 27.95 | 39.53 | 15.00 | 15.00 | - | - | |
| | 120° | 676.647.xx.40 | ● | ● | | | 1.60 | 2.83 | 3.46 | 4.00 | 4.47 | 6.33 | 15.00 | 15.00 | - | - |
| | | 676.727.xx.40 | ● | ● | | | 2.10 | 4.46 | 5.46 | 6.30 | 7.04 | 9.96 | 15.00 | 15.00 | - | - |
| | | 676.767.xx.40 | ● | ● | | | 2.30 | 5.66 | 6.93 | 8.00 | 8.94 | 12.65 | 15.00 | 15.00 | - | - |
| | | 676.807.xx.40 | ● | ● | | | 2.60 | 7.07 | 8.66 | 10.00 | 11.18 | 15.81 | 15.00 | 15.00 | - | - |
| | | 676.847.xx.40 | ● | ● | | | 3.00 | 8.84 | 10.82 | 12.50 | 13.97 | 19.76 | 15.00 | 15.00 | - | - |
| | | 676.887.xx.40 | ● | ● | | | 3.40 | 11.31 | 13.86 | 16.00 | 17.89 | 25.30 | 15.00 | 15.00 | - | - |
| 676.927.xx.40 | | ● | ● | | | 4.10 | 14.14 | 17.32 | 20.00 | 22.36 | 31.62 | 15.00 | 15.00 | - | - | |
| Blind nozzle | - | 067.630.8F.40.01 | ● | | | - | - | - | - | - | - | 15.00 | - | - | - | |

① b Tongue-type nozzle

Incl. gasket 095.015.7A.05.65
(Material: Viton)



| Designation | Spray angle | η | Ordering no. | | | Narrowest free cross section \varnothing [mm] | \dot{V} [l/min] | | | | | Weight [g] | |
|------------------------|-------------|--------|---------------|--------------------------------|------|---|-------------------|-------|-------|-------|-------|-------------------------|-------|
| | | | Type | Mat. no. | | | p [bar] | | | | | PP/Stainless steel 316L | PVDF |
| | | | | 8R | 5E | | 1.0 | 1.5 | 2.0 | 2.5 | 5.0 | | |
| | | | | Housing: PP Insert: 316L SS | PVDF | | | | | | | | |
| ① b Tongue-type nozzle | 45° | 35° | 676.803.xx.41 | ● | | 3.40 | 7.07 | 8.66 | 10.00 | 11.18 | 15.81 | 25.00 | - |
| | 60° | 35° | 676.874.xx.41 | ● | | 4.20 | 10.61 | 12.99 | 15.00 | 16.77 | 23.72 | 25.00 | - |
| | 60° | 35° | 676.924.xx.41 | ● | | 4.70 | 14.14 | 17.32 | 20.00 | 22.36 | 31.62 | 25.00 | - |
| | 70° | 40° | 677.005.xx.41 | ● | ● | 6.00 | 22.27 | 27.28 | 31.50 | 35.22 | 49.81 | 25.00 | 11.00 |

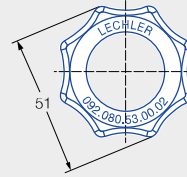
Ordering Type + Material no. = Ordering no.
example: 676.646.xx.40 + 8F = 676.646.8F.40

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$



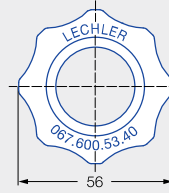
② a Retaining nut

092.080.xx.00.02



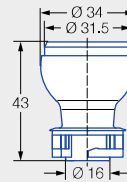
② b Retaining nut

067.600.xx.40



③ Ball bayonet base

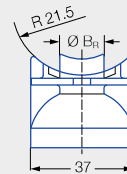
067.630.xx.40



④ a Ball seat

067.631.xx.40.x2

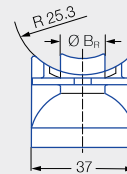
For eyelet clamp
067.631.xx.40.00



④ b Ball seat

067.631.xx.50.x2

For eyelet clamp
067.631.xx.50.00



| Designation | Ordering no. | | Ø B _R ¹ [mm] | Recommended bore diameter [mm] | Pipe Ø [mm] | Weight [g] |
|---|------------------|----|---------------------------------------|--------------------------------------|--------------------|---------------|
| | Mat. no. | | | | | |
| | Type | 53 | | | | 6M |
| ② a Retaining nut | 092.080.xx.00.02 | ● | – | – | – | 18.0 |
| ② b Retaining nut | 067.600.xx.40 | ● | – | – | – | 18.0 |
| ③ Ball bayonet base | 067.630.xx.40 | ● | – | – | – | 12.0 |
| ④ a Ball seat for eyelet clamp no. 067.631.xx.40.00 | 067.631.xx.40.22 | ● | 13.8 | 14.0–14.3 | 1 1/4" (40.0–43.0) | 9.0 |
| | 067.631.xx.40.02 | ● | 16.0 | 16.5–17.0 | 1 1/4" (40.0–43.0) | 11.0 |
| | 067.631.xx.40.12 | ● | 19.8 | 20.3–20.8 | 1 1/4" (40.0–43.0) | 13.0 |
| ④ b Ball seat for eyelet clamp no. 067.631.xx.50.00 | 067.631.xx.50.22 | ● | 13.8 | 14.0–14.3 | 1 1/2" (46.0–49.0) | 9.0 |
| | 067.631.xx.50.02 | ● | 16.0 | 16.5–17.0 | 1 1/2" (46.0–49.0) | 11.0 |
| | 067.631.xx.50.12 | ● | 19.8 | 20.3–20.8 | 1 1/2" (46.0–49.0) | 13.0 |

¹ Ø B_R = spigot diameter.



| Designation | Ordering no. | | Dimensions [mm] | | | | | | Ø B _R ¹ [mm] | Recommend- ed bore diameter [mm] | Pipe Ø (Ø D) [mm] | Weight [g] |
|------------------|------------------|----------------|-----------------|----------------|----------------|----------------|------------------|------------------|------------------------------------|--|-------------------------|---------------|
| | Type | Mat. no. 53 | B ₁ | B ₂ | H ₁ | H ₂ | Ø D ₁ | Ø D ₂ | | | | |
| ⑤ a Eyelet clamp | 067.631.xx.40.00 | ● | - | - | 47.7 | 22.0 | 43.0 | - | - | - | 1 1/4" (40.0-43.0) | 31.0 |
| | 067.631.xx.50.00 | ● | - | - | 51.5 | 22.0 | 50.6 | - | - | - | 1 1/2" (46.0-49.0) | 33.0 |
| ⑤ b Eyelet clamp | 090.023.xx.44.10 | ● | 30.0 | 32.0 | 44.5 | 23.0 | - | 34.0 | 13.8 | 14.0-14.3 | 1" (32.0-34.5) | 48.0 |
| | 090.023.xx.43.10 | ● | 30.0 | 32.0 | 44.5 | 23.0 | - | 34.0 | 16.0 | 16.5-17.0 | 1" (32.0-34.5) | 48.0 |
| | 090.033.xx.44.10 | ● | 33.0 | 36.0 | 48.0 | 27.0 | - | 34.0 | 13.8 | 14.0-14.3 | 1 1/4" (40.0-43.0) | 50.0 |
| | 090.033.xx.43.10 | ● | 33.0 | 36.0 | 48.0 | 27.0 | - | 34.0 | 16.0 | 16.5-17.0 | 1 1/4" (40.0-43.0) | 50.0 |
| | 090.033.xx.40.10 | ● | 33.0 | 36.0 | 48.0 | 27.0 | - | 34.0 | 20.0 | 20.5-21.0 | 1 1/4" (40.0-43.0) | 50.0 |
| | 090.043.xx.44.10 | ● | 36.0 | 35.0 | 52.0 | 30.0 | - | 34.0 | 13.8 | 14.0-14.3 | 1 1/2" (46.0-49.0) | 52.0 |
| | 090.043.xx.43.10 | ● | 36.0 | 35.0 | 52.0 | 30.0 | - | 34.0 | 16.0 | 16.5-17.0 | 1 1/2" (46.0-49.0) | 52.0 |
| 090.043.xx.40.10 | ● | 36.0 | 35.0 | 52.0 | 30.0 | - | 34.0 | 20.0 | 20.5-21.0 | 1 1/2" (46.0-49.0) | 52.0 | |
| ⑤ c Single clamp | 092.080.xx.00 | ● | - | - | - | - | - | - | 16.3* | 16.5-17.0 | 1" (32.0-34.5) | 36.0 |
| | 092.081.xx.00 | ● | - | - | - | - | - | - | 16.3* | 16.5-17.0 | 1 1/4" (40.0-43.0) | 38.0 |
| | 092.082.xx.00 | ● | - | - | - | - | - | - | 16.3* | 16.5-17.0 | 1 1/2" (46.0-49.0) | 40.0 |
| | 092.083.xx.00 | ● | - | - | - | - | - | - | 16.3* | 16.5-17.0 | 2" (58.0-62.0) | 42.0 |

* Other spigot diameters available on request.
¹ Ø B_R = spigot diameter.

Ordering Type + Material no. = Ordering no.
 example: 067.631.xx.40.00 + 53 = 067.631.53.40.00

Conversion formula for this series: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{P_2}{P_1}}$