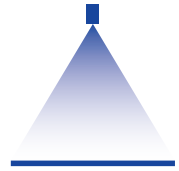


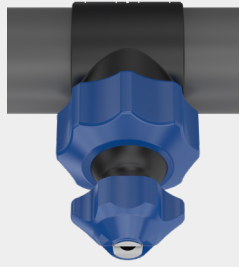
# ➤ Nozzle systems for surface treatment

## Series 676/677 MEMOSPRAY



### Features:

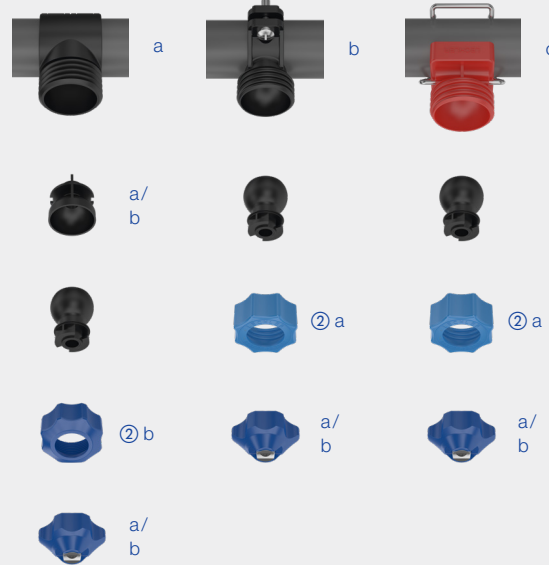
- Retention of the adjusted spray direction when changing nozzles
- Simple, quick nozzle assembly without the need for tools
- Many combination options
- Large range of flow rates, spray angles and materials



### Applications:

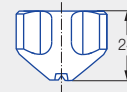
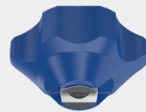
- Degreasing
- Phosphating in surface treatment
- Industrial cleaning
- Container washers

### Assembly example



### a Flat fan nozzle

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

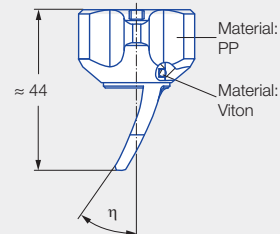
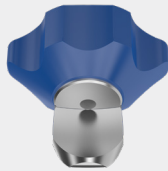


Designation	Spray angle	Ordering no.					Narrowest free cross section Ø [mm]	V̇ [l/min]					Weight [g]			
		Type	Mat. no.					p [bar]					PP/Stainless steel 303	PP/Stainless steel 316L	PP/Ceramic	Polypropylene (PP)
			8F	8R	E8	53		1.0	1.5	2.0	2.5	5.0				
a Flat fan nozzle	30°	676.642.xx.40	●	●			1.60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

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
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	-	-	-	

### b Tongue-type nozzle

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



Designation	Spray angle	η	Ordering no.		Narrowest free cross section Ø [mm]	V̇ [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
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



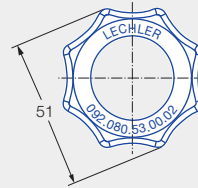
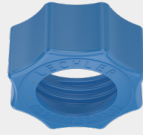
Ordering Type + Material no. = Ordering no.  
example: 676.646.xx.40 + 8F = 676.646.8F.40

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



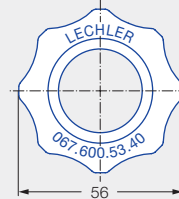
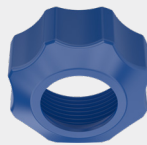
**② a Retaining nut**

092.080.xx.00.02



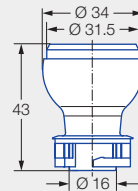
**② b Retaining nut**

067.600.xx.40



**Ball bayonet base**

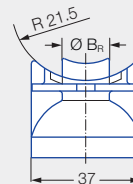
067.630.xx.40



**a Ball seat**

067.631.xx.40.x2

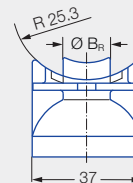
For eyelet clamp  
067.631.xx.40.00



**b Ball seat**

067.631.xx.50.x2

For eyelet clamp  
067.631.xx.50.00

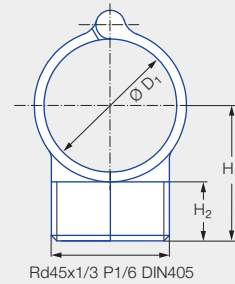


Designation	Ordering no.			Ø B <sub>R</sub> <sup>1</sup> [mm]	Recommended bore diameter [mm]	Pipe Ø [mm]	Weight [g]
	Type	Mat. no.					
		53	6M				
② a Retaining nut	092.080.xx.00.02	●		-	-	-	18.0
② b Retaining nut	067.600.xx.40	●		-	-	-	18.0
Ball bayonet base	067.630.xx.40	●		-	-	-	12.0
a Ball seat 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
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

<sup>1</sup> Ø B<sub>R</sub> = spigot diameter.

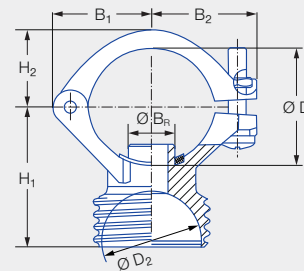
**a Eyelet clamp**

067.631.xx.x0.00



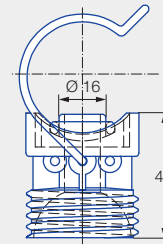
**b Eyelet clamp**

090.0x3.xx.4x.10



**c Single clamp**

092.08x.xx.00



Designation	Ordering no.		Dimensions [mm]						Ø B <sub>R</sub> <sup>1</sup> [mm]	Recommend- ed bore diameter [mm]	Pipe Ø (Ø D) [mm]	Weight [g]
	Type	Mat. no.	B <sub>1</sub>	B <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	Ø D <sub>1</sub>	Ø D <sub>2</sub>				
		53										
<b>a Eyelet clamp</b>	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
<b>b Eyelet clamp</b>	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
<b>c Single clamp</b>	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.

<sup>1</sup> Ø B<sub>R</sub> = 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:  $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{P_2}{P_1}}$