Nozzle systems for surface treatment
Series 676/677 MEMOSPRAY

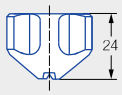
Features:
- Retention of the adjusted spray direction when changing nozzles
- Simple, quick nozzle assembly without the need for tools
- Many combination options
- Large range of flow rates, spray angles and materials

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)

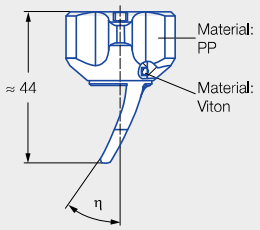


Designation	Spray angle	Ordering no.						Narrowest free cross section Ø [mm]	V̇ [l/min]					Weight [g]			
		Type	Mat. no.						p [bar]								
			8F	8R	E8	53											
			Housing: PP Insert: 303 SS	Housing: PP Insert: 316L SS	Housing: PP Insert: Ceramic	Polypropylene (PP)			1.0	1.5	2.0	2.5	5.0	PP/Stainless steel 303	PP/Stainless steel 316L	PP/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. Type	Mat. no. 8F Housing: PP Insert: 303 SS	8R Housing: PP Insert: 316L SS	E8 Housing: PP Insert: Ceramic	53 Polypropylene (PP)	Narrowest free cross section Ø [mm]	V̇ [l/min] p [bar] 1.0	1.5	**2.0**	2.5	5.0	Weight [g] PP/Stainless steel 303	PP/Stainless steel 316L	PP/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)



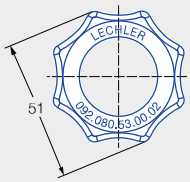
Designation	Spray angle	η	Ordering no. Type	Mat. no. 8R Housing: PP Insert:316L SS	5E PVDF	Narrowest free cross section Ø [mm]	V̇ [l/min] p [bar] 1.0	1.5	2.0	2.5	5.0	Weight [g] PP/Stainless steel 316L	PVDF
① b **Tongue-type nozzle**	45°	35°	**676.803.xx.41**	●		3.40	7.07	8.66	10.00	11.18	15.81	25.00	–
	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: $\dot{V}_2 = \dot{V}_1 \cdot \sqrt{\frac{p_2}{p_1}}$

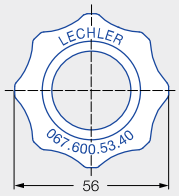
② a Retaining nut

092.080.xx.00.02



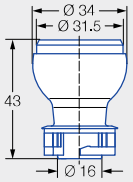
② b Retaining nut

067.600.xx.40



③ Ball bayonet base

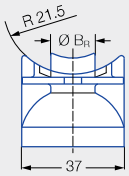
067.630.xx.40



④ a Ball seat

067.631.xx.40.x2

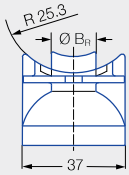
For eyelet clamp
067.631.xx.40.00



④ b Ball seat

067.631.xx.50.x2

For eyelet clamp
067.631.xx.50.00

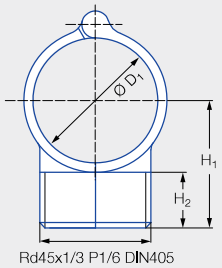


Designation	Ordering no.			Ø B_R[1] [mm]	Recommended bore diameter [mm]	Pipe Ø [mm]	Weight [g]
	Type	Mat. no. 53 Polypropylene (PP)	Mat. no. 6M PP reinforced				Polypropylene (PP)
② a **Retaining nut**	**092.080.xx.00.02**	●		–	–	–	18.0
② b **Retaining nut**	**067.600.xx.40**	●		–	–	–	18.0
③ **Ball bayonet 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.

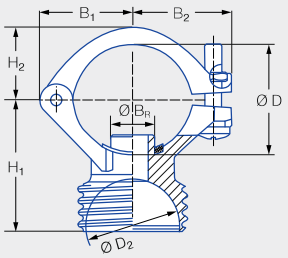
⑤ a Eyelet clamp

067.631.xx.x0.00



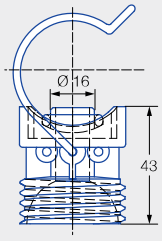
⑤ b Eyelet clamp

090.0x3.xx.4x.10



⑤ c Single clamp

092.08x.xx.00



Designation	Ordering no.		Dimensions [mm]						Ø B_R[1] [mm]	Recommended bore diameter [mm]	Pipe Ø (Ø D) [mm]	Weight [g]
	Type	Mat. no. 53 Polypropylene (PP)	B_1	B_2	H_1	H_2	Ø D_1	Ø D_2				Polypropylene (PP)
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 example:	Type	+	Material no.	=	Ordering no.
	067.631.xx.40.00	+	53	=	067.631.53.40.00

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