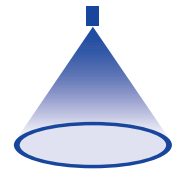


# ➤ Tangential-flow hollow cone nozzles, plastic version

## Series 302

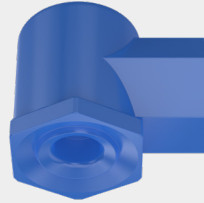


### Features:

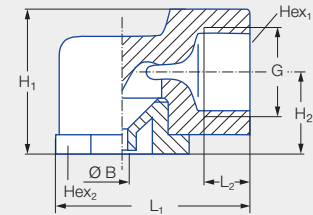
- Uniform atomization
- Non-clogging nozzle without swirl insert

### Applications:

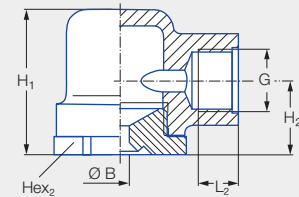
- Humidification of air
- Dust control
- Sprinkling
- Foam control
- Adiabatic cooling



Series 302




Type 302.32x-302.48x



Type 302.52x-302.96x

Type	G	Dimensions [mm]						Weight [g]	p <sub>max</sub> [bar]
		H <sub>1</sub>	H <sub>2</sub>	L <sub>1</sub>	L <sub>2</sub>	Hex <sub>1</sub>	Hex <sub>2</sub>		
<b>302.32x-302.48x</b>	3/8 BSPP	27.5	16.5	43.5	10.0	22	22	13.0	5.0
<b>302.52x-302.96x</b>	3/8 BSPP	34.0	18.5	37.0	10.0	22	22	18.0	5.0

Spray angle	Ordering no.			Bore diameter B [mm]	Narrowest free cross section Ø [mm]	V̇ water [l/min]					Spray diameter D [mm] (at p = 2 bar)		
	Type	Mat. no.				p [bar]					 H = 250 [mm]    H = 500 [mm]		
		51	5E			53	0.5	1.0	2.0	3.0			5.0
60°	<b>302.364</b>	●		●	1.30	1.30	0.32	0.45	<b>0.63</b>	0.77	1.00	320	600
	<b>302.464</b>	●		●	1.95	1.95	0.70	0.99	<b>1.40</b>	1.71	2.21	330	620
90°	<b>302.326</b>	●	●		1.05	1.05	0.20	0.28	<b>0.40</b>	0.49	0.63	470	770
	<b>302.366</b>	●	●		1.30	1.30	0.32	0.45	<b>0.63</b>	0.77	1.00	480	790
	<b>302.406</b>	●	●	●	1.55	1.55	0.50	0.71	<b>1.00</b>	1.22	1.58	490	810
	<b>302.486</b>	●		●	2.10	2.10	0.80	1.13	<b>1.60</b>	1.96	2.53	510	850
	<b>302.526</b>	●		●	5.00	2.00	1.00	1.41	<b>2.00</b>	2.45	3.16	520	870
	<b>302.566</b>	●		●	5.00	2.40	1.25	1.77	<b>2.50</b>	3.06	3.95	520	900
	<b>302.606</b>	●		●	5.00	3.20	1.58	2.23	<b>3.15</b>	3.86	4.98	530	940
	<b>302.686</b>	●			7.50	3.40	2.50	3.54	<b>5.00</b>	6.12	7.91	540	1,010
	<b>302.766</b>	●			9.00	4.30	4.00	5.66	<b>8.00</b>	9.80	12.65	540	1,040
	<b>302.846</b>	●		●	11.00	5.20	6.25	8.84	<b>12.50</b>	15.31	19.67	540	1,050
	<b>302.886</b>	●	●	●	11.00	6.40	8.00	11.31	<b>16.00</b>	19.60	25.30	540	1,050
<b>302.966</b>	●			11.00	8.60	12.50	17.68	<b>25.00</b>	30.62	39.53	540	1,050	





Spray angle	Ordering no.			Bore diameter B [mm]	Narrowest free cross section Ø [mm]	V̇ water [l/min]					Spray diameter D [mm] (at p = 2 bar)		
	Type	Mat. no.				p [bar]					H = 250 [mm]	H = 500 [mm]	
		51	5E			53	0.5	1.0	2.0	3.0			5.0
	PA	PVDF	PP										
130°	302.328	●			1.35	0.80	0.20	0.28	<b>0.40</b>	0.49	0.63	640	930
	302.368	●	●		1.85	1.10	0.32	0.45	<b>0.63</b>	0.77	1.00	660	1,010
	302.408	●	●		3.65	1.30	0.50	0.71	<b>1.00</b>	1.22	1.58	680	1,110
	302.488	●		●	5.20	1.60	0.80	1.13	<b>1.60</b>	1.96	2.53	720	1,250
	302.528	●			5.00	2.00	1.00	1.41	<b>2.00</b>	2.45	3.16	750	1,330
	302.568	●			5.00	2.40	1.25	1.77	<b>2.50</b>	3.06	3.95	780	1,410
	302.608	●	●	●	5.00	3.20	1.58	2.23	<b>3.15</b>	3.86	4.98	820	1,500
	302.648	●			7.50	3.00	2.00	2.83	<b>4.00</b>	4.90	6.32	860	1,590
	302.688	●			7.50	3.40	2.50	3.54	<b>5.00</b>	6.12	7.91	900	1,650
	302.728	●			7.50	4.10	3.15	4.45	<b>6.30</b>	7.72	9.96	920	1,700
	302.768	●			9.00	4.30	4.00	5.66	<b>8.00</b>	9.80	12.65	940	1,730
	302.848	●			11.00	5.20	6.25	8.84	<b>12.50</b>	15.31	19.76	960	1,760
	302.888	●		●	11.00	6.40	8.00	11.31	<b>16.00</b>	19.60	25.30	970	1,780
302.968	●	●		11.00	8.60	12.50	17.68	<b>25.00</b>	30.62	39.53	1,000	1,800	

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

Ordering Type + Material no. = Ordering no.  
 example: 302.328 + 5E = 302.328.5E



Assembly accessories can be found in Chapter 9 "Accessories".