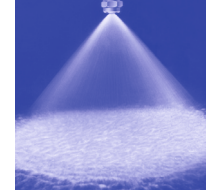




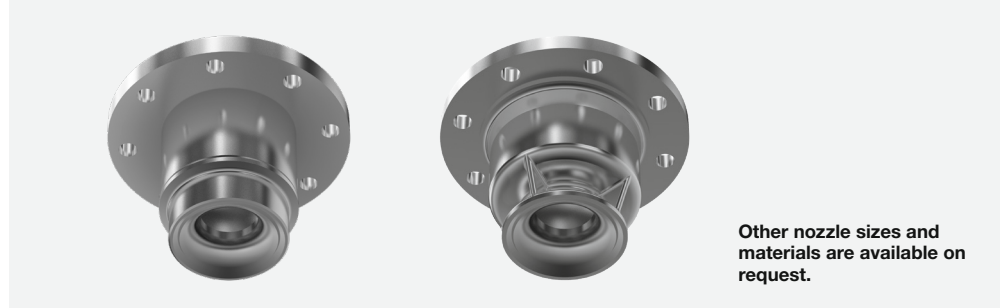
Axial-flow full cone nozzles Series 421




**Even full cone distribution,
high flow rates.**

Applications:

Scrubber, for even surface irrigation, cooling and cleaning of gases, water recooling, column irrigation and for improving chemical reactions via surface enlargement.



Other nozzle sizes and materials are available on request.

Spray angle* 	Ordering no.				B Ø [mm]	E Ø [mm]	V̇ [l/min]					
	Type	Mat. no.					p [bar] (p _{max} = 10 bar)					
		05.84 Cast iron	1Y.84 316L SS	53.00 PP			0.3	0.5	1.0	2.0	5.0	10.0
60°	421.564	○	-	○	37	12	375	459	606	800	1,154	1,523
	421.604	○	-	○	39	14	468	574	758	1,000	1,443	1,904
	421.624	○	○	○	41	13	585	718	947	1,250	1,803	2,380
	421.644	○	○	○	49	16	749	919	1,213	1,600	2,308	3,046
	421.664	○	○	○	56	16	936	1,149	1,516	2,000	2,885	3,807
	421.684	○	○	○	58	21	1,171	1,436	1,895	2,500	3,607	4,759
	421.704	○	○	○	65	24	1,475	1,809	2,387	3,150	4,545	5,997
	421.724	-	○	○	72	30	1,873	2,297	3,031	4,000	5,771	7,615
	421.744	-	○	○	81	34	2,341	2,872	3,789	5,000	7,214	9,518
	421.764	-	○	○	88	35	2,950	3,618	4,775	6,300	9,089	11,993
	421.784	-	○	○	99	39	3,746	4,595	6,063	8,000	11,542	15,229
	421.804	-	○	-	112	42	4,682	5,743	7,579	10,000	14,427	19,037
421.824	-	○	-	125	52	5,853	7,179	9,473	12,500	18,034	23,796	
90°	421.566	○	-	○	37	15	375	459	606	800	1,154	1,523
	421.606	○	-	○	39	15	468	574	758	1,000	1,443	1,904
	421.626	○	○	○	43	19	585	718	947	1,250	1,803	2,380
	421.646	○	○	○	53	22	749	919	1,213	1,600	2,308	3,046
	421.666	○	○	○	56	24	936	1,149	1,516	2,000	2,885	3,807
	421.686	○	○	○	59	28	1,171	1,436	1,895	2,500	3,607	4,759
	421.706	○	○	○	66	32	1,475	1,809	2,387	3,150	4,545	5,997
	421.726	-	○	○	72	35	1,873	2,297	3,031	4,000	5,771	7,615
	421.746	-	○	○	81	40	2,341	2,872	3,789	5,000	7,214	9,518
	421.766	-	○	○	93	39	2,950	3,618	4,775	6,300	9,089	11,993
	421.786	-	○	○	99	44	3,746	4,595	6,063	8,000	11,542	15,229
	421.806	-	○	○	123	53	4,682	5,743	7,579	10,000	14,427	19,037
421.826	-	○	-	125	54	5,853	7,179	9,473	12,500	18,034	23,796	
120°	421.568	○	○	○	36	15	375	459	606	800	1,154	1,523
	421.608	○	○	○	41	15	468	574	758	1,000	1,443	1,904
	421.628	○	○	○	43	19	585	718	947	1,250	1,803	2,380
	421.648	○	○	○	53	22	749	919	1,213	1,600	2,308	3,046
	421.668	○	○	○	55	24	936	1,149	1,516	2,000	2,885	3,807
	421.688	○	○	○	59	28	1,171	1,436	1,895	2,500	3,607	4,759
	421.708	○	○	○	66	32	1,475	1,809	2,387	3,150	4,545	5,997
	421.728	-	○	○	72	35	1,873	2,297	3,031	4,000	5,771	7,615
	421.748	-	○	○	81	40	2,341	2,872	3,789	5,000	7,214	9,518
	421.768	-	○	○	88	39	2,950	3,618	4,775	6,300	9,089	11,993
	421.788	-	○	○	99	44	3,746	4,595	6,063	8,000	11,542	15,229
	421.808	-	○	○	108	53	4,682	5,743	7,579	10,000	14,427	19,037
421.828	-	○	○	121	54	5,853	7,179	9,473	12,500	18,034	23,796	

B = bore diameter · E = narrowest free cross section

* Spray angle at p = 2 bar

Other materials available on request



Conversion formula for the above series: $\dot{V}_2 = \dot{V}_1 * \left(\frac{p_2}{p_1}\right)^{0.4}$
(≤ 10 bar)



Axial-flow full cone nozzles Series 421

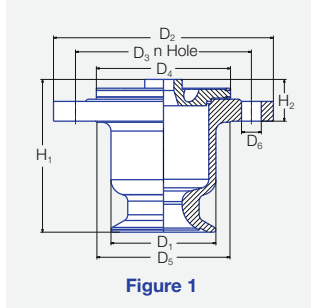


Figure 1

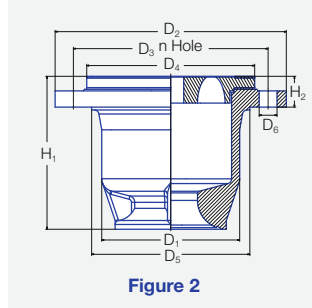


Figure 2

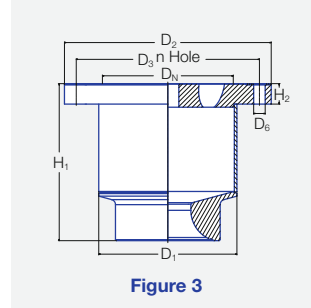


Figure 3

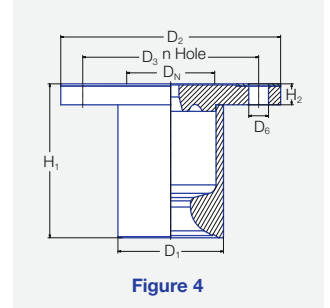



Figure 4

Spray angle 	Ordering no.		Fig.	Dimensions [mm]								Flange hole	
	Type	Mat. no.		H ₁	H ₂	D ₁	D ₂	D ₃	D ₄	D ₅	D _N	Number (n Hole)	D ₆
60°-90° 120° 120° 60°-120°	421.56x/ 421.60x	05.84	1	134	39	96	200	160	122	121	80	8	18
		05.84	1	140	39	96	200	160	122	121	80	8	18
		1Y.84	3	140	19	96	200	160	-	-	80	8	18
		53.00	4	131	44	99	200	160	-	-	80	8	18
60°-120°	421.62x	05.84	1	156	28	113	220	180	158	141	100	8	18
		1Y.84	3	156	20	108	220	180	-	-	100	8	18
		53.00	4	156	53	117	220	180	-	-	100	8	18
60°-90° 120° 60°-120° 60°-120°	421.64x/ 421.66x	05.84	2	175	42	140	250	210	188	166	125	8	18
		05.84	2	175	29	140	250	210	188	166	125	8	18
		1Y.84	3	175	19	135	250	210	-	-	125	8	18
		53.00	4	175	57	141	250	210	-	-	125	8	18
60°-120°	421.68x/ 421.70x	05.84	2	186	38	170	285	240	207	195	150	8	22
		1Y.84	3	186	27	160	285	240	-	-	150	8	22
		53.00	4	186	51	171	285	240	-	-	150	8	23
60°-120°	421.72x/ 421.74x	1Y.84	3	250	33	214	340	295	-	-	200	8	22
		53.00	4	250	50	225	340	295	-	-	200	8	23
60°-120°	421.76x/ 421.78x	1Y.84	3	300	39	264	395	350	-	-	250	12	22
		53.00	4	300	53	280	395	350	-	-	250	12	23
60°-120°	421.80x/ 421.82x	1Y.84	3	367	49	315	445	400	-	-	300	12	22
		53.00	4	367	57	328	445	400	-	360	300	12	23

Other materials available on request

Example	Type	+	Material no.	=	Ordering no.
for ordering:	421.564	+	05.84	=	421.564.05.84

Conversion formula for the above series: $\dot{V}_2 = \dot{V}_1 * \left(\frac{p_2}{p_1}\right)^{0.4}$
(≤ 10 bar)

