

type of nozzle: excentric hollow cone - nozzles HE

nozzle without spin employment with replaceable mouthpiece

characteristics of nozzle

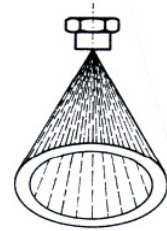
hollow cone spray pattern, no installations
blockage-insensitively right-angled connection

application

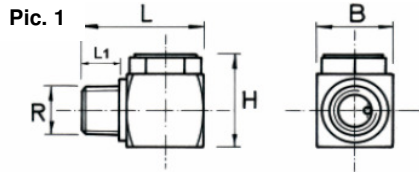
gas and air washer
cooling
washing and cleaning
degreasing
rinses
dust suppression
process engineering

material

brass
steel
high-grade steel
plastic
other on request

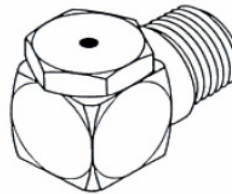


hollow cone spray pattern



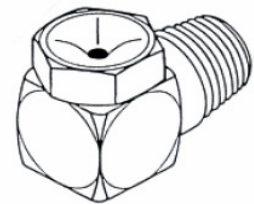
thread R DIN 2999	dimensions in mm			
	L	L1	H	B
1/8"	28	7	21	16
1/4"	28	10	21	16
3/8"	32	10	26	20
1/2"	41	13	31	25
3/4"	46	15	36	30
1"	58	17	42	35

Pic. 2



**nozzle with spray angle
60° and 90°**

Pic. 3



wide spray angle 120°

plastic nozzles can exhibit other SW

order example: (threads - type - spray angle - material) 1/4" - HE 2 - 30° - SS303

B = orifice diameter, E = closest cross section, the drilling vary with different spray angles easily

The following spray angles stand to the selection: 5°-10°-15°-25°-30°-50°-60°-80°-90°-120°, related to a pressure of 3 bar

male thread R						Type	drilling (mm)		flow rate V (l/min.) with pressure p (bar)								
1/8"	1/4"	3/8"	1/2"	3/4"	1"		B	E	0,7	1	1,5	2	3	4	5	5,5	6
*							HE 0,5	0,90	1,20	0,20	0,23	0,26	0,34	0,40	0,45	0,50	0,53
*	*					HE 1	1,40	1,60	0,40	0,45	0,50	0,65	0,75	0,90	1,00	1,10	1,20
*	*					HE 2	2,10	2,10	0,75	0,95	1,00	1,30	1,50	1,80	2,00	2,20	2,40
*	*					HE 3	2,40	2,40	1,00	1,40	1,60	2,00	2,30	2,70	3,00	3,20	3,50
	*	*				HE 5	3,00	3,20	2,00	2,30	2,50	3,00	4,00	4,50	5,00	5,50	6,00
	*	*				HE 8	3,80	4,00	3,00	3,50	4,00	5,00	6,00	7,50	8,00	8,50	9,50
	*	*				HE 10	4,30	4,30	4,00	4,50	5,00	6,50	7,50	9,50	10,0	10,5	12,0
	*	*				HE 15	5,20	5,20	5,50	7,00	8,00	10,0	11,5	14,0	15,0	16,0	17,5
		*				HE 20	7,10	6,30	7,50	9,00	10,5	13,0	15,0	18,5	20,0	21,0	24,0
		*				HE 22	7,40	7,90	8,50	10,5	12,0	15,0	17,0	21,0	24,0	24,5	27,5
		*	*			HE 25	7,50	7,50	9,50	11,5	13,0	16,0	19,0	23,0	25,0	27,0	30,0
		*	*			HE 27	6,10	7,90	10,5	13,0	15,0	18,0	21,0	26,0	29,0	30,0	33,5
		*	*			HE 30	8,30	7,90	11,0	14,0	16,0	19,5	22,5	27,5	30,0	32,0	36,0
			*	*		HE 40	9,50	9,10	15,0	18,5	21,5	26,0	30,0	37,0	40,0	42,0	47,0
			*	*		HE 45	8,70	9,50	16,7	20,2	24,8	28,3	34,7	40,1	45,0	47,3	49,5
			*	*		HE 50	9,10	11,1	19,0	23,0	27,0	33,0	38,0	46,0	50,0	54,0	60,0
			*	*		HE 60	12,7	11,1	22,5	27,5	32,0	39,0	45,0	55,5	60,0	64,0	72,0
			*	*		HE 70	12,7	12,7	26,0	32,0	37,0	45,5	53,0	65,0	70,0	75,0	83,0
			*	*		HE 80	12,7	14,3	30,0	37,0	43,0	52,0	60,0	74,0	80,0	87,0	94,5
			*	*		HE 90	12,7	14,7	34,0	41,5	48,0	59,0	68,0	83,0	90,0	94,5	109
			*	*		HE 100	12,7	15,9	38,0	46,0	53,0	65,0	75,5	94,5	100	105	120
			*	*		HE 110	12,7	17,1	41,5	51,0	58,5	72,0	83,0	102	110	117	132
			*	*		HE 120	12,7	18,2	45,0	55,5	64,0	79,0	90,0	109	120	128	140
			*	*		HE 150	17,5	17,1	55,5	67,5	82,5	94,5	115	133	150	157	165
			*	*		HE 180	17,5	20,0	66,6	81,0	99,0	113	139	160	180	189	198