

Characteristics

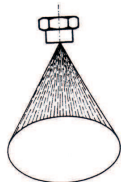
- Spiral nozzles atomize using an impingement principle. The advantages with regard to conventional nozzles are:
- Spiral nozzles have no inserted swirler and therefore a free passage making them non-clogging.
 - The liquid's outlet velocity is very high due to the absence of a swirl insert, resulting in fine droplets.
 - Spiral nozzles are very compact. Large flow rate are possible for small thread connections.

Application

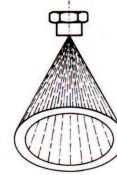
- Flue gas cleaning
- Gas cooling
- Washing and rinsing
- Fire protection

Material

- Brass
- Stainl. steel
- PVC
- Teflon

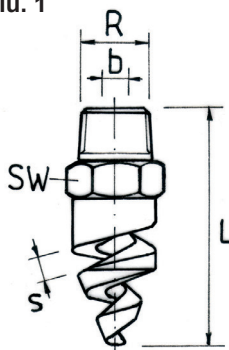


Full cone spray pattern



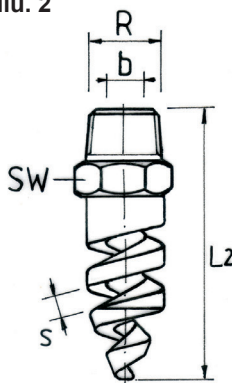
Hollow cone spray pattern

Illu. 1



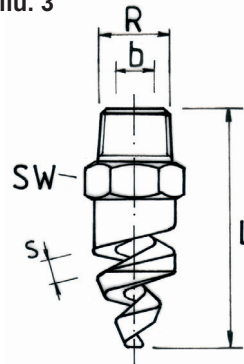
Type VS
60° - 90° - 120°

Illu. 2



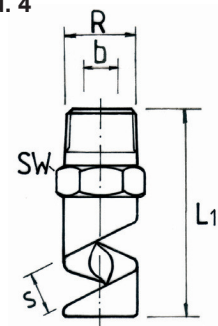
Type VS
150° - 170°

Illu. 3



Type HS
90° - 120°

Illu. 4



Type HS
180°

Full cone spiral nozzles

(Nozzles marked in blue are not applicable as plastic design!)

R	Type VS	b in mm	S in mm	Flow rate \dot{V} (l/min.) at pressure p (bar)								Spray angle					L in mm	L2 in mm	SW in mm
				0.5 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	10 bar	20 bar	60°	90°	120°	150°	170°			
1/8"	VS 6	2.38	2.38		2.67	3.19	4.51	5.53	7.13	10.1	14.3	*	*	*			44		14
	VS 8	3.18	3.18		4.96	5.93	8.36	10.3	13.2	18.7	26.5	*	*	*			44		14
1/4"	VS 6	2.38	2.38		2.67	3.19	4.51	5.53	7.13	10.1	14.3	*	*	*			44		14
	VS 8	3.18	3.18		4.96	5.93	8.36	10.3	13.2	18.7	26.5	*	*	*			44		14
	VS 10	3.97	3.18		7.63	9.12	12.9	15.8	20.4	28.8	40.8	*	*	*			44		14
3/8"	VS 6	2.38	2.38		2.67	3.19	4.51	5.53	7.13	10.1	14.3	*					44		14
	VS 8	3.18	3.18		4.96	5.93	8.36	10.3	13.2	18.7	26.5	*					44		14
	VS 10	3.97	3.18		7.63	9.12	12.9	15.8	20.4	28.8	40.8	*					44		14
	VS 12	4.76	3.18		11.4	13.7	19.3	23.7	30.6	43.2	61.1	*	*	*	*	*	48	60	17
	VS 14	5.56	3.18		15.4	18.5	26.1	32.0	41.3	58.4	82.6	*	*	*	*	*	48	60	17
	VS 16	6.35	3.18		20.2	24.2	34.2	41.8	54.0	76.4	108	*	*	*	*	*	48	60	17
1/2"	VS 20	7.94	3.18		31.5	37.6	53.2	65.1	84.1	119	168	*	*	*	*	*	48	60	17
	VS 24	9.53	4.76	38.8	46.0	54.9	77.7	95.1	123	174	246	*	*	*	*	*	64	78	22
3/4"	VS 28	11.1	4.76	53.2	62.9	75.2	106	130	168	238	336	*	*	*	*	*	64	78	22
	VS 32	12.7	4.76	67.7	80.1	95.7	135	166	214	303	428	*	*	*	*	*	70	89	28
1"	VS 40	15.9	6.35	108	128	153	216	264	341	483	683	*	*	*	*	*	92	111	35
	VS 48	19.1	6.35	153	181	216	306	375	484	685	968	*	*	*	*	*	92	111	35
1 1/2"	VS 56	22.1	7.94	208	246	294	416	509	657	930	1,320	*	*	*	*	*	111	137	51
	VS 64	25.4	7.94	272	322	385	545	667	861	1,220	1,720	*	*	*	*	*	111	137	50.8
	VS 72	28.6	7.94	309	366	438	619	758	978	1,380	1,960	*	*	*	*	*	111	143	50.8
2"	VS 88	34.9	11.1	451	534	638	902	1,110	1,430	2,020	2,850		*	*	*	*	143	175	64
	VS 96	38.1	11.1	570	674	806	1,140	1,400	1,800	2,550	3,600		*	*	*	*	176	178	64
3"	VS 112	44.5	14.3	825	976	1,170	1,650	2,020	2,610	3,690	5,220		*	*			219		89
	VS 128	50.8	14.3	1,090	1,290	1,550	2,190	2,680	3,460	4,891	6,920		*	*			219		89
4"	VS 160	63.5	15.9	1,690	2,000	2,390	3,380	4,140	5,350	7,570	10,700		*	*			257		114