Tangential-Flow Full Cone Nozzle VTL

MC

Full cone nozzle without swirl insert - fine-dripping

Characteristics

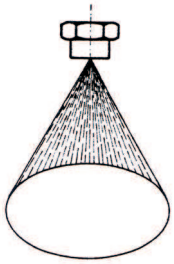
Clog-resistant,
Without swirl insert, yet
with castle nut deflector
for fine droplet formation.

Application

All settings requiring
a fine-dripping
full cone spray pattern
with free flow cross-section.
Cleaning
Cooling
Gas and air washing
Process engineering

Material

Brass
Steel
Stainless steel
Plastic
Other materials
available on request

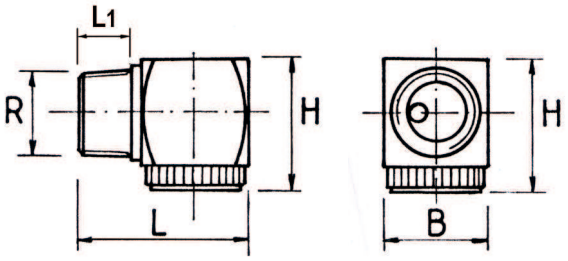


Full cone spray pattern

Thread R DIN 2999	Dimensions in mm			
	L	L1	H	B
1/8“	25	7	21	16
1/4“	28	10	21	16
3/8“	32	10	26	20
1/2“	41	13	31	25
3/4“	48	15	36	30
1“	58	17	42	36

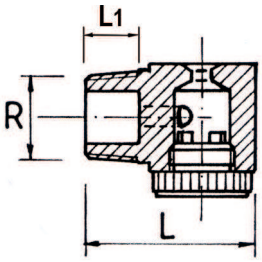
Plastic nozzles can feature differing dimensions.

Illu. 1



Dimensions

Illu. 2



Type **VTL** with
castle nut deflector,
fine-dripping

Order example: (thread - type - spray angle - material) R 3/4“ - VTL 25“ - 120° - 1.4305

B = outlet bore, E = smallest section, bores vary slightly for different spray angles

Thread R - DIN 2999						Type VTL	B Ø (mm)	E Ø (mm)	Flow rate V̇ (l/min.) at pressure p (bar)							Spray angle		
1/8“	1/4“	3/8“	1/2“	3/4“	1“				bar 0.5	bar 1	bar 2	bar 3	bar 5	bar 7	bar 10	60°	90°	120°
*	*					**VTL 1.0**	1.5	1.5	0.5	0.7	1.0	1.2	1.6	1.9	2.2		*	*
*	*					**VTL 1.2**	1.7	1.6	0.6	0.9	1.3	1.5	2.0	2.3	2.8		*	*
*	*					**VTL 1.6**	1.9	1.8	0.8	1.1	1.6	2.0	2.5	3.0	3.6		*	*
*	*					**VTL 1.8**	2.0	1.9	0.9	1.3	1.8	2.2	2.9	3.4	4.0		*	*
	*					**VTL 2.0**	2.1	2.0	1.0	1.4	2.0	2.5	3.2	3.7	4.5		*	*
	*					**VTL 2.5**	2.3	2.2	1.3	1.8	2.5	3.1	4.0	4.7	5.6		*	*
		*				**VTL 3.2**	2.6	2.5	1.6	2.2	3.2	3.9	5.0	5.9	7.04		*	*
		*				**VTL 4.0**	3.0	2.9	2.0	2.8	4.0	4.9	6.3	7.5	8.9	*	*	*
		*				**VTL 5.0**	3.3	3.2	2.5	3.5	5.0	6.1	7.9	9.4	11		*	*
		*				**VTL 5.6**	3.5	3.4	2.8	4.0	5.6	6.9	8.9	10	13		*	*
		*				**VTL 6.3**	3.7	3.6	3.2	4.5	6.3	7.7	10	12	14	*	*	*
		*				**VTL 8.0**	4.2	4.1	4.0	5.7	8.0	9.8	13	15	18		*	*
		*				**VTL 9.0**	4.4	4.3	4.5	6.4	9.0	11	14	17	20		*	*
		*				**VTL 10**	4.7	4.6	5.0	7.1	10	12	16	19	22		*	*
		*				**VTL 13**	5.2	5.1	6.3	8.8	13	15	20	23	28		*	*
		*				**VTL 16**	5.8	5.7	8.0	11	16	20	25	30	36		*	*
			*			**VTL 20**	7.3	7.3	10	14	20	24	32	37	45		*	*
			*			**VTL 25**	8.0	8.0	13	18	25	31	39	37	56		*	*
			*			**VTL 32**	8.7	8.7	16	22	32	39	50	59	70		*	*
				*		**VTL 40**	10.8	10.2	20	28	40	49	63	75	89			*
				*		**VTL 50**	11.4	11.0	25	35	50	61	79	94	112			*
				*		**VTL 63**	12.7	12.3	32	45	63	77	100	118	141			*
					*	**VTL 71**	14.0	13.5	36	50	71	87	112	133	159			*
					*	**VTL 100**	17.0	16.0	50	71	100	122	158	187	224			*