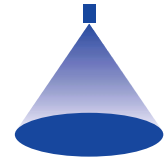


# Full cone nozzles

## Axial-flow CenterJet™

### Series 459



#### Features:

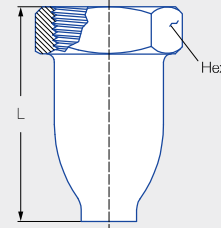
- Turbine-style vane for uniform atomization and distribution

#### Applications:

- Surface spraying
- Quench cooling
- Fire suppression
- Chemical processing



Series 459



Dimensions (in)			Weight (lb)
Inlet (Female NPT)	L	Hex (mm)	
1-1/2	4.31	56	1.8
2	5.45	70	2.4
2-1/2	6.00	83	4.2
3	6.89	99	6.0

	Spray Angle in degrees at 40 psi (* = 15 psi)	Ordering number						Bore diameter (in)	V̇ water [gal/min]								
		Type	Mat. no.	Connection					P [psi]								
				17 <sup>1</sup> 316SS	1 1/2 NPT	2 NPT	2 1/2 NPT		3 NPT	5	10	15	20	Liters per min. 2 bar	40	60	80
Standard angle	62	459.244	●	BS	-	-	-	.500	16.21	21.39	25.16	28.23	124	37.25	43.81	49.15	53.74
	62	459.284	●	BS	-	-	-	.625	21.58	28.47	33.48	37.56	165	49.57	58.29	65.40	71.51
	70	459.355	●	BS	-	-	-	.687	30.47	40.20	47.28	53.05	233	69.99	82.32	92.36	100.98
	84	459.356	●	BS	-	-	-	.687	30.47	40.20	47.28	53.05	233	69.99	82.32	92.36	100.98
	43	459.343	●	-	BW	-	-	.500	29.03	38.30	45.05	50.54	222	66.69	78.43	88.00	96.21
	80*	459.365	●	-	BW	-	-	.656	30.64	41.75	49.11	55.09	242	72.70	85.50	95.93	104.88
	66	459.415	●	-	BW	-	-	.796	44.33	58.49	68.79	77.18	339	101.84	119.77	134.37	146.92
	68	459.455	●	-	BW	-	-	.906	56.75	74.88	88.07	98.81	434	130.38	153.33	172.03	188.09
	83	459.475	●	-	-	BZ	-	.910	62.11	81.96	96.39	108.14	475	142.69	167.82	188.28	205.86
	67	459.515	●	-	-	BZ	-	1.06	78.85	104.04	122.36	137.28	603	181.14	213.04	239.02	261.34
57	459.584	●	-	-	-	MB	1.31	120.95	159.60	187.70	210.59	925	277.87	326.80	366.66	400.89	
Wide angle	120	459.238	●	BS	-	-	-	.562	16.21	21.39	25.16	28.23	124	37.25	43.81	49.15	53.74
	98	459.266	●	BS	-	-	-	.500	15.30	20.19	23.74	26.64	117	35.15	41.34	46.38	50.71
	94	459.286	●	BS	-	-	-	.625	21.58	28.47	33.48	37.56	165	49.57	58.29	65.40	71.51
	120	459.288	●	BS	-	-	-	.625	21.18	27.95	32.87	36.88	162	48.67	57.23	64.21	70.21
	120	459.348	●	BS	-	-	-	.781	29.55	38.99	45.86	51.45	226	67.89	79.85	89.58	97.95
	118	459.378	●	-	BW	-	-	.781	35.70	47.10	55.40	62.15	273	82.01	96.45	108.21	118.32
	*99	459.386	●	-	BW	-	-	.796	40.67	53.66	63.11	70.80	311	93.43	109.88	123.28	134.79
	118	459.408	●	-	BW	-	-	.937	43.41	57.28	67.37	75.58	332	99.73	117.30	131.60	143.89
	119	459.488	●	-	-	BZ	-	1.03	68.13	89.89	105.72	118.61	521	156.51	184.07	206.52	225.80
	*86	459.496	●	-	-	BZ	-	0.98	71.00	93.69	110.18	123.62	543	163.12	191.84	215.24	235.33
	*90	459.575	●	-	-	-	MB	1.31	122.65	161.84	190.34	213.55	938	281.78	331.39	371.81	406.52
	120	459.608	●	-	-	-	MB	1.43	164.10	216.53	254.66	285.72	1255	377.01	443.39	497.46	543.91

<sup>1</sup> We reserve the right to supply material 316Ti or 316L under material no. 17.

\* Nozzles are manufactured to spray performance, not orifice diameter.

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

#### Notice:

This product line is also available in larger capacities with inlets up to 6" in size.

Please contact Lechler if you have an application requiring a larger size.

Ordering Type + Material no. + Conn. = Ordering no.  
example: 459.455 + 17 + BW = 459.455.17.BW