

FULL CONE NOZZLES

- Absorption
- Cleaning
- Cooling
- Dust control
- Foam control
- Gas treatment
- Fire protection
- Desuperheating
- Surface spraying
- Water treatment
- Chemical process
- Chlorine Precipitation

ENRICHED BY **EXPERIENCE**

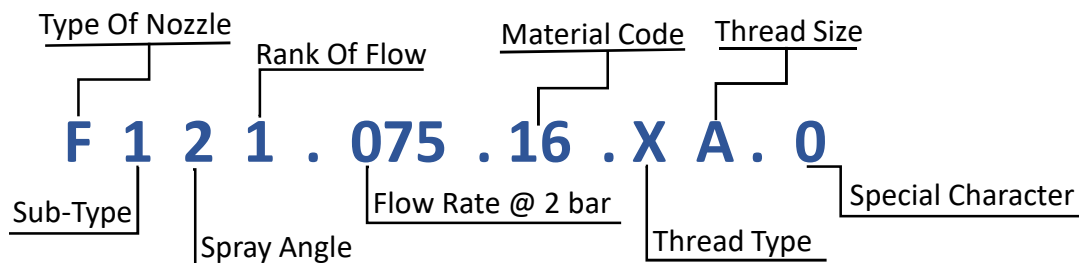
EMPOWERED BY **RESEARCH**



Mican Engineers Pvt. Ltd.

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Product Coding System



Code	Type of Spray Nozzle
F	Flat Spray Nozzle
E	Full Cone Spray Nozzle
H	Hollow Cone Spray Nozzle
T	Tank Cleaning Nozzle
S	Straight Jet Nozzle
A	Air Atomising Nozzle
G	Fittings / Accessories
C	Customised

Code	Spray Angle
1	15
2	30
3	45
4	60
5	75
6	90
7	105
8	120
A	180
B	270
C	360
S	Customised Angle

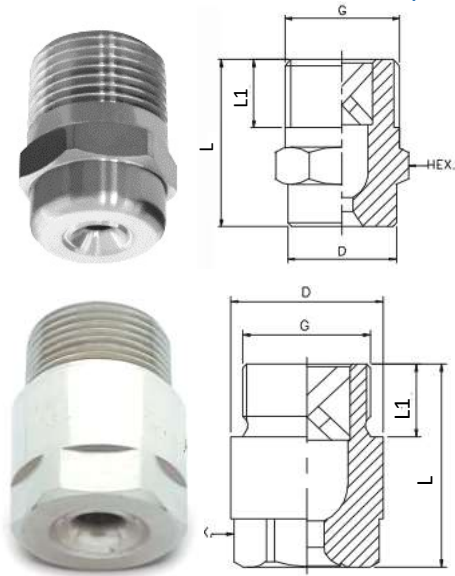
Code	Material
MS	Mild Steel
04	SS 304 / 304L
16	SS 316 / 316L
31	SS 310
41	SS 410
CI	Cast Iron
BR	Brass
AL	Aluminum
HA	Hastelloy C / B
TI	Titanium
MO	Monel
SC	Silicone Carbide
PT	Teflon / PTFE
PP	PP - Polypropylene
NY	Nylon
DE	Delrin
PV	PVC
DF	PVDF
PE	Polyethylene

Code	Thread Type
X	BSPP
Y	BSPT
Z	NPT
F	Flanged

Code	Thread Size
A	1/8"
B	1/4"
C	3/8"
D	1/2"
E	3/4"
F	1"
G	1 1/4"
H	1 1/2"
J	2"
K	2 1/2"
L	3"
M	3 1/2"
N	4"
P	5"
Q	6"
R	7"
T	8"
U	9"
V	10"

Standard design with self sealing thread connection.
Stable spray angle, Uniform distribution of liquid,
parabolic distribution of liquid.

E1 Series



Design:

- Removable X Vane
- Non clogging type
- Axial flow

Application :

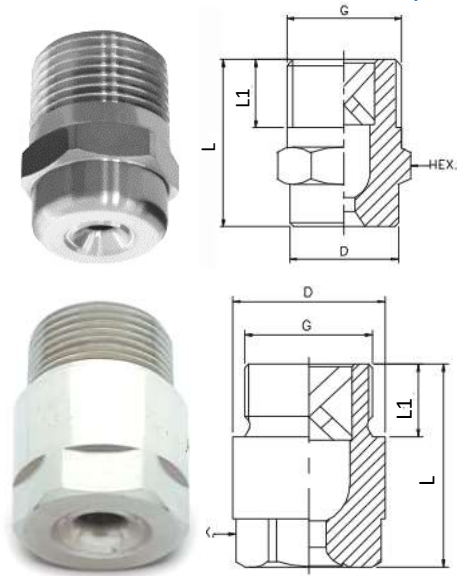
- Roll Cooling
- Surface treatment
- Filter cleaning
- Belt Cleaning
- Coating
- Lubricating
- Cleaning

Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPP	42	15	32	27
1" BSPP	56	17	39	36

SPRAY ANGLE	END CONNECTION						Orifice	LPM						
	1/8" BSPP	1/4" BSPP	3/8" BSPP	1/2" BSPP	3/4" BSPP	1" BSPP		PRESSURE(bar)						
								0.5	1	2	3	5	7	10
45°														
E131.100	YA						1.2	0.50	0.72	1.00	1.23	1.58	1.87	2.24
E131.130	YA						1.35	0.65	0.93	1.30	1.59	2.05	2.43	2.91
E131.150	YA						1.5	0.75	1.08	1.50	1.84	2.37	2.81	3.35
E131.174	YA						1.6	0.87	1.25	1.74	2.13	2.75	3.25	3.89
E131.200	YA						1.7	1.00	1.44	2.00	2.45	3.16	3.74	4.47
E131.250	YA	YB					1.9	1.25	1.80	2.50	3.06	3.95	4.68	5.59
E131.350		YB	YC				2.3	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E131.400		YB	YC				2.4	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E131.474		YB	YC				2.7	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E131.630			YC	YD			3.0	3.15	4.53	6.30	7.72	9.95	11.78	14.08
E131.800				YD			3.5	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E132.100				YD			4.0	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E132.125				YD	YE		4.3	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E132.160				YD	YE		5.0	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E132.200					YE		5.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E132.225						YF	5.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E132.250						YF	6.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E132.320						YF	6.4	16.00	23.00	32.00	39.20	50.56	59.84	71.52

Standard design with self sealing thread connection.
Stable spray angle, Uniform distribution of liquid,
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Application :

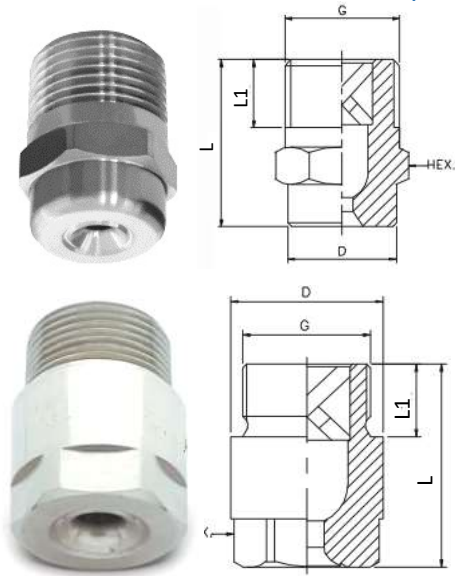
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Thread	L	L1	D	HEX
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1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
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3/4" BSPP	42	15	32	27
1" BSPP	56	17	39	36

SPRAY ANGLE	END CONNECTION						Orifice	LPM						
	1/8" BSPP	1/4" BSPP	3/8" BSPP	1/2" BSPP	3/4" BSPP	1" BSPP		PRESSURE(bar)						
								0.5	1	2	3	5	7	10
60°														
E141.100	YA						1.2	0.50	0.72	1.00	1.23	1.58	1.87	2.24
E141.130	YA						1.35	0.65	0.93	1.30	1.59	2.05	2.43	2.91
E141.150	YA						1.5	0.75	1.08	1.50	1.84	2.37	2.81	3.35
E141.174	YA						1.6	0.87	1.25	1.74	2.13	2.75	3.25	3.89
E141.200	YA						1.7	1.00	1.44	2.00	2.45	3.16	3.74	4.47
E141.250	YA						1.9	1.25	1.80	2.50	3.06	3.95	4.68	5.59
E141.350	YA	YB					2.3	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E141.400		YB	YC				2.4	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E141.474		YB	YC				2.7	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E141.630		YB	YC				3.0	3.15	4.53	6.30	7.72	9.95	11.78	14.08
E141.800			YC				3.5	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E142.100			YC				4.0	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E142.125				YD			4.3	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E142.160				YD			5.0	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E142.200				YD	YE		5.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E142.225					YE		5.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E142.250					YE		6.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E142.320					YE	YF	6.4	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E142.400						YF	7.8	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E142.520						YF	8.9	26.00	37.38	52.00	63.70	82.16	97.24	116.22

Standard design with self sealing thread connection.
Stable spray angle, Uniform distribution of liquid,
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Application :

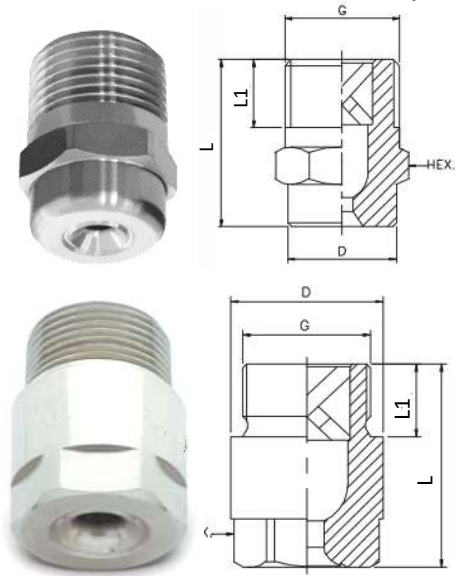
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Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPP	42	15	32	27
1" BSPP	56	17	39	36

SPRAY ANGLE	END CONNECTION						Orifice	LPM						
	1/8" BSPP	1/4" BSPP	3/8" BSPP	1/2" BSPP	3/4" BSPP	1" BSPP		PRESSURE(bar)						
								0.5	1	2	3	5	7	10
90°														
E161.100	YA						1.2	0.50	0.72	1.00	1.23	1.58	1.87	2.24
E161.130	YA						1.35	0.65	0.93	1.30	1.59	2.05	2.43	2.91
E161.150	YA						1.5	0.75	1.08	1.50	1.84	2.37	2.81	3.35
E161.174	YA						1.6	0.87	1.25	1.74	2.13	2.75	3.25	3.89
E161.200	YA						1.7	1.00	1.44	2.00	2.45	3.16	3.74	4.47
E161.250	YA						1.9	1.25	1.80	2.50	3.06	3.95	4.68	5.59
E161.350	YA						2.3	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E161.400	YA						2.4	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E161.474	YA						2.7	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E161.630		YB	YC				3.0	3.15	4.53	6.30	7.72	9.95	11.78	14.08
E161.800		YB	YC				3.5	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E162.100		YB	YC				4.0	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E162.125			YC				4.3	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E162.160			YC				5.0	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E162.200				YD			5.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E162.225				YD			5.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E162.250				YD			6.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E162.320				YD			6.4	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E162.400				YD	YE		7.8	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E162.520					YE	YF	8.9	26.00	37.38	52.00	63.70	82.16	97.24	116.22
E162.650					YE	YF	9.9	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E162.720						YF	10.4	36.00	51.75	72.00	88.20	113.76	134.64	160.92

Standard design with self sealing thread connection.
Stable spray angle, Uniform distribution of liquid,
parabolic distribution of liquid.

E1 Series



Design:

- Removable X Vane
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- Axial flow

Application :

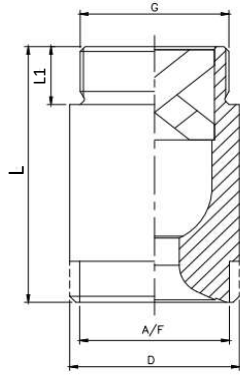
- Roll Cooling
- Surface treatment
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Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPP	42	15	32	27
1" BSPP	56	17	39	36

SPRAY ANGLE	END CONNECTION						Orifice	LPM						
	1/8" BSPP	1/4" BSPP	3/8" BSPP	1/2" BSPP	3/4" BSPP	1" BSPP		PRESSURE(bar)						
								0.5	1	2	3	5	7	10
120°														
E181.100	YA						1.2	0.50	0.72	1.00	1.23	1.58	1.87	2.24
E181.130	YA						1.35	0.65	0.93	1.30	1.59	2.05	2.43	2.91
E181.150	YA						1.5	0.75	1.08	1.50	1.84	2.37	2.81	3.35
E181.174	YA						1.6	0.87	1.25	1.74	2.13	2.75	3.25	3.89
E181.200	YA						1.7	1.00	1.44	2.00	2.45	3.16	3.74	4.47
E181.250	YA						1.9	1.25	1.80	2.50	3.06	3.95	4.68	5.59
E181.350	YA						2.3	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E181.400	YA	YB	YC				2.4	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E181.474		YB	YC				2.7	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E181.630		YB	YC				3.0	3.15	4.53	6.30	7.72	9.95	11.78	14.08
E181.800		YB	YC				3.5	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E182.100			YC				4.0	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E182.125			YC				4.3	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E182.160			YC	YD			5.0	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E182.200				YD			5.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E182.225				YD			5.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E182.250				YD	YE		6.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E182.320				YD	YE		6.4	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E182.400				YD	YE		7.8	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E182.520						YF	8.9	26.00	37.38	52.00	63.70	82.16	97.24	116.22
E182.650						YF	9.9	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E182.720						YF	10.4	36.00	51.75	72.00	88.20	113.76	134.64	160.92

Standard design with self sealing thread connection.
Stable spray angle, Uniform distribution of liquid,
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E1 Series



Design:

- Removable X Vane
- Non clogging type
- Axial flow

Application :

- Roll Cooling
- Surface treatment
- Filter cleaning
- Belt Cleaning
- Coating
- Lubricating
- Cleaning

Thread	L	L1	D	HEX
1 1/4" BSPT	74	19	49	41
1 1/2" BSPT	85	22	59	50
2" BSPP	106	24	68	60

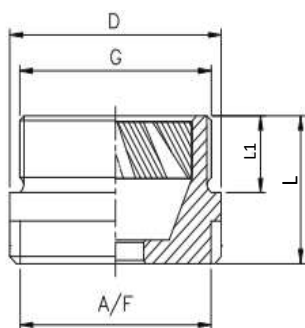
SPRAY ANGLE	END CONNECTION			LPM						
	1 1/4"	1 1/2"	2"	PRESSURE(bar)						
	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
60°	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
E142.650	XG			32.50	46.72	65.00	79.63	102.70	121.55	145.28
E142.800	XG			40.00	57.50	80.00	98.00	126.40	149.60	178.80
E143.100	XG			50.00	71.88	100.00	122.50	158.00	187.00	223.50
E143.118		XH		59.00	84.81	118.00	144.55	186.44	220.66	263.73
E143.130		XH		65.00	93.44	130.00	159.25	205.40	243.10	290.55
E143.160		XH		80.00	115.00	160.00	196.00	252.80	299.20	357.60
E143.200			XJ	100.00	143.75	200.00	245.00	316.00	374.00	447.00
E143.227			XJ	113.50	163.16	227.00	278.08	358.66	424.49	507.35
E143.250			XJ	125.00	179.69	250.00	306.25	395.00	467.50	558.75
E143.337			XJ	168.50	242.22	337.00	412.83	532.46	630.19	753.20

SPRAY ANGLE	END CONNECTION			LPM						
	1 1/4"	1 1/2"	2"	PRESSURE(bar)						
	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
90°	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
E162.650	XG			32.50	46.72	65.00	79.63	102.70	121.55	145.28
E162.800	XG			40.00	57.50	80.00	98.00	126.40	149.60	178.80
E163.100	XG			50.00	71.88	100.00	122.50	158.00	187.00	223.50
E163.118		XH		59.00	84.81	118.00	144.55	186.44	220.66	263.73
E163.130		XH		65.00	93.44	130.00	159.25	205.40	243.10	290.55
E163.160		XH		80.00	115.00	160.00	196.00	252.80	299.20	357.60
E163.200			XJ	100.00	143.75	200.00	245.00	316.00	374.00	447.00
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E163.337			XJ	168.50	242.22	337.00	412.83	532.46	630.19	753.20

SPRAY ANGLE	END CONNECTION			LPM						
	1 1/4"	1 1/2"	2"	PRESSURE(bar)						
	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
120°	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
E182.650	XG			32.50	46.72	65.00	79.63	102.70	121.55	145.28
E182.800	XG			40.00	57.50	80.00	98.00	126.40	149.60	178.80
E183.100	XG			50.00	71.88	100.00	122.50	158.00	187.00	223.50
E183.118		XH		59.00	84.81	118.00	144.55	186.44	220.66	263.73
E183.130		XH		65.00	93.44	130.00	159.25	205.40	243.10	290.55
E183.160		XH		80.00	115.00	160.00	196.00	252.80	299.20	357.60
E183.200			XJ	100.00	143.75	200.00	245.00	316.00	374.00	447.00
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Thread	L	L1	D	HEX
1 1/4" BSPT	74	19	49	41
1 1/2" BSPT	85	22	59	50
2" BSPP	106	24	68	60

SPRAY ANGLE	END CONNECTION			LPM						
	2 1/2"	3"	3 1/2"	PRESSURE(bar)						
60°	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
E143.400	XK			200.00	287.50	400.00	490.00	632.00	748.00	894.00
E143.500	XK			250.00	359.38	500.00	612.50	790.00	935.00	1117.50
E143.625		XL		312.50	449.22	625.00	765.63	987.50	1168.75	1396.88
E143.710		XL		355.00	510.31	710.00	869.75	1121.80	1327.70	1586.85
E143.800			XM	400.00	575.00	800.00	980.00	1264.00	1496.00	1788.00

SPRAY ANGLE	END CONNECTION			LPM						
	2 1/2"	3"	3 1/2"	PRESSURE(bar)						
90°	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
E163.400	XK			200.00	287.50	400.00	490.00	632.00	748.00	894.00
E163.500	XK			250.00	359.38	500.00	612.50	790.00	935.00	1117.50
E163.625		XL		312.50	449.22	625.00	765.63	987.50	1168.75	1396.88
E163.710		XL		355.00	510.31	710.00	869.75	1121.80	1327.70	1586.85
E163.800			XM	400.00	575.00	800.00	980.00	1264.00	1496.00	1788.00

SPRAY ANGLE	END CONNECTION			LPM							
	2 1/2"	3"	3 1/2"	4"	PRESSURE(bar)						
120°	BSPP	BSPP	BSPP	BSPP	0.5	1	2	3	5	7	10
E163.400	XK				200.00	287.50	400.00	490.00	632.00	748.00	894.00
E163.500	XK				250.00	359.38	500.00	612.50	790.00	935.00	1117.50
E163.625		XL			312.50	449.22	625.00	765.63	987.50	1168.75	1396.88
E163.710		XL			355.00	510.31	710.00	869.75	1121.80	1327.70	1586.85
E163.800			XM		400.00	575.00	800.00	980.00	1264.00	1496.00	1788.00
E164.1000			XM		500.00	718.75	1000.00	1225.00	1580.00	1870.00	2235.00
E164.1250				XN	625.00	898.44	1250.00	1531.25	1975.00	2337.50	2793.75

Standard design with self sealing Flanged connection. Stable spray angle, Uniform distribution of liquid, parabolic distribution of liquid, designed to deliver large capacity.

E2 Series

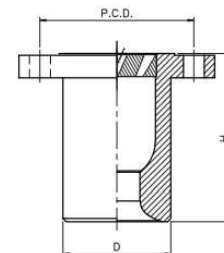
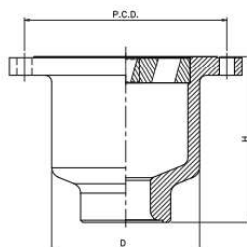
Design:

- Removable X Vane
- Non clogging type
- Axial flow

Application :

- Cooling of gaseous liquid and solids
- Cooling and washing of gas.
- Improving chemical reaction via surface enlargement
- Scrubber

ANSI 16.5 Flange		PCD	H
INCH	MM		
3"	190.5	152.4	140
4"	228.6	190.5	160
5"	254	215.9	177
6"	279.4	241.3	190
8"	342.9	298.4	250
10"	406.4	361.9	290



SPRAY ANGLE	Flanged Connection						Orifice	LPM						
								PRESSURE(bar)						
								0.3	0.5	0.7	1	2	3	5
60°	3"	4"	5"	6"	8"	10"								
E243.800	LF						37.0	309.00	400.00	473.00	565.69	800.00	980.00	1265.00
E244.1000	LF						41.4	387.00	500.00	591.00	707.11	1000.00	1225.00	1581.00
E244.1250		NF					46.3	484.00	625.00	739.00	883.88	1250.00	1530.00	1976.00
E244.1600			PL				52.3	619.00	800.00	946.00	1131.37	1600.00	1960.00	2530.00
E244.2000			PL				58.5	774.00	1000.00	1183.00	1414.21	2000.00	2450.00	3162.00
E244.2500				QL			65.4	968.00	1250.00	1479.00	1767.77	2500.00	3062.00	3953.00
E244.3125				QL			73.1	1210.00	1562.00	1848.00	2209.71	3125.00	3827.00	4941.00
E244.4000					UL		82.7	1549.00	2000.00	2366.00	2828.43	4000.00	4899.00	6325.00
E244.5000					UL		92.5	1936.00	2500.00	2958.00	3535.53	5000.00	6124.00	7906.00
E244.6250						VL	103.4	2420.00	3125.00	3697.00	4419.42	6250.00	7655.00	9882.00
E244.8000						VL	117.0	3098.00	4000.00	4732.00	5656.85	8000.00	9798.00	12649.00

SPRAY ANGLE	Flanged Connection						Orifice	LPM						
								PRESSURE(bar)						
								0.3	0.5	0.7	1	2	3	5
90°	3"	4"	5"	6"	8"	10"								
E263.800	LF						37.0	309.00	400.00	473.00	565.69	800.00	980.00	1265.00
E264.1000	LF						41.4	387.00	500.00	591.00	707.11	1000.00	1225.00	1581.00
E264.1250		NF					46.3	484.00	625.00	739.00	883.88	1250.00	1530.00	1976.00
E264.1600			PL				52.3	619.00	800.00	946.00	1131.37	1600.00	1960.00	2530.00
E264.2000			PL				58.5	774.00	1000.00	1183.00	1414.21	2000.00	2450.00	3162.00
E264.2500				QL			65.4	968.00	1250.00	1479.00	1767.77	2500.00	3062.00	3953.00
E264.3125				QL			73.1	1210.00	1562.00	1848.00	2209.71	3125.00	3827.00	4941.00
E264.4000					UL		82.7	1549.00	2000.00	2366.00	2828.43	4000.00	4899.00	6325.00
E264.5000					UL		92.5	1936.00	2500.00	2958.00	3535.53	5000.00	6124.00	7906.00
E264.6250						VL	103.4	2420.00	3125.00	3697.00	4419.42	6250.00	7655.00	9882.00
E264.8000						VL	117.0	3098.00	4000.00	4732.00	5656.85	8000.00	9798.00	12649.00
E265.10000						VL	127.0	3873.00	5000.00	5915.00	7071.00	10000.00	12247.00	15811.00

SPRAY ANGLE	Flanged Connection						Orifice	LPM						
								PRESSURE(bar)						
								0.3	0.5	0.7	1	2	3	5
120°	3"	4"	5"	6"	8"	10"								
E283.800	LF						37.0	309.00	400.00	473.00	565.69	800.00	980.00	1265.00
E284.1000	LF						41.4	387.00	500.00	591.00	707.11	1000.00	1225.00	1581.00
E284.1250		NF					46.3	484.00	625.00	739.00	883.88	1250.00	1530.00	1976.00
E284.1600			PL				52.3	619.00	800.00	946.00	1131.37	1600.00	1960.00	2530.00
E284.2000			PL				58.5	774.00	1000.00	1183.00	1414.21	2000.00	2450.00	3162.00
E284.2500				QL			65.4	968.00	1250.00	1479.00	1767.77	2500.00	3062.00	3953.00
E284.3125				QL			73.1	1210.00	1562.00	1848.00	2209.71	3125.00	3827.00	4941.00
E284.4000					UL		82.7	1549.00	2000.00	2366.00	2828.43	4000.00	4899.00	6325.00
E284.5000					UL		92.5	1936.00	2500.00	2958.00	3535.53	5000.00	6124.00	7906.00
E284.6250						VL	103.4	2420.00	3125.00	3697.00	4419.42	6250.00	7655.00	9882.00
E284.8000						VL	117.0	3098.00	4000.00	4732.00	5656.85	8000.00	9798.00	12649.00
E285.10000						VL	127.0	3873.00	5000.00	5915.00	7071.00	10000.00	12247.00	15811.00

Square Pattern full cone spray nozzle, Standard design
with self sealing thread connection. Stable spray angle,
Uniform distribution of liquid,

E3 Series

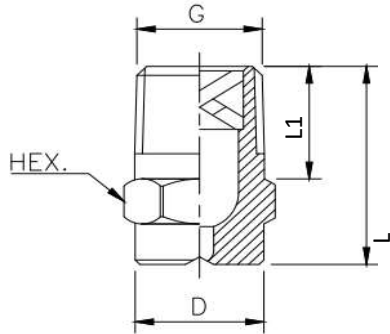


Design:

- Removable X Vane
- Non clogging type
- Axial flow square cone

Application :

- Cooling
- Product Washing
- Air & Gas Washing
- Scrubbers
- Liquor washer
- Dust control



Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPP	42	15	32	27
1" BSPP	56	17	40	36

SPRAY ANGLE	END CONNECTION						Orifice	LPM						
	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT		PRESSURE(bar)						
								0.5	1	2	3	5	7	10
60°														
E341.100	YA						1.2	0.50	0.72	1.00	1.23	1.58	1.87	2.24
E341.130	YA						1.35	0.65	0.93	1.30	1.59	2.05	2.43	2.91
E341.150	YA						1.5	0.75	1.08	1.50	1.84	2.37	2.81	3.35
E341.174	YA						1.6	0.87	1.25	1.74	2.13	2.75	3.25	3.89
E341.200	YA						1.7	1.00	1.44	2.00	2.45	3.16	3.74	4.47
E341.250	YA	YB					1.9	1.25	1.80	2.50	3.06	3.95	4.68	5.59
E341.350		YB	YC				2.3	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E341.400		YB	YC				2.4	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E341.474		YB	YC				2.7	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E341.630			YC	YD			3.0	3.15	4.53	6.30	7.72	9.95	11.78	14.08
E341.800				YD			3.5	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E342.100				YD			4.0	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E342.125				YD	YE		4.3	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E342.160				YD	YE		5.0	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E342.200					YE		5.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E342.225						YF	5.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E342.250						YF	6.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E342.320						YF	6.4	16.00	23.00	32.00	39.20	50.56	59.84	71.52

Square Pattern full cone spray nozzle, Standard design with self sealing thread connection. Stable spray angle, Uniform distribution of liquid,

E3 Series

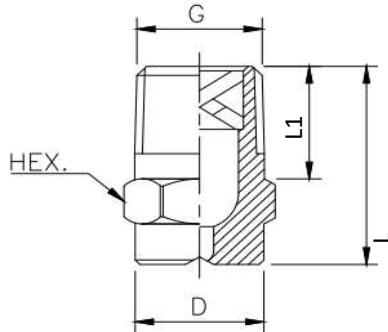


Design:

- Removable X Vane
- Non clogging type
- Axial flow square cone

Application :

- Cooling
- Product Washing
- Air & Gas Washing
- Scrubbers
- Liquor washer
- Dust Control



Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPP	42	15	32	27
1" BSPP	56	17	40	36

SPRAY ANGLE	END CONNECTION						Orifice	LPM						
	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT		PRESSURE(bar)						
								0.5	1	2	3	5	7	10
90°														
E361.100	YA						1.2	0.50	0.72	1.00	1.23	1.58	1.87	2.24
E361.130	YA						1.35	0.65	0.93	1.30	1.59	2.05	2.43	2.91
E361.150	YA						1.5	0.75	1.08	1.50	1.84	2.37	2.81	3.35
E361.174	YA						1.6	0.87	1.25	1.74	2.13	2.75	3.25	3.89
E361.200	YA						1.7	1.00	1.44	2.00	2.45	3.16	3.74	4.47
E361.250	YA	YB					1.9	1.25	1.80	2.50	3.06	3.95	4.68	5.59
E361.350		YB	YC				2.3	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E361.400		YB	YC				2.4	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E361.474		YB	YC				2.7	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E361.630			YC	YD			3.0	3.15	4.53	6.30	7.72	9.95	11.78	14.08
E361.800				YD			3.5	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E362.100				YD			4.0	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E362.125				YD	YE		4.3	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E362.160				YD	YE		5.0	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E362.200					YE		5.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E362.225						YF	5.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E362.250						YF	6.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E362.320						YF	6.4	16.00	23.00	32.00	39.20	50.56	59.84	71.52

Square Pattern full cone spray nozzle, Standard design
with self sealing thread connection. Stable spray angle,
Uniform distribution of liquid,

E3 Series

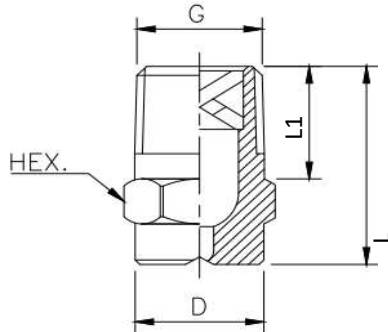


Design:

- Removable X Vane
- Non clogging type
- Axial flow square cone

Application :

- Cooling
- Product Washing
- Air & Gas Washing
- Scrubbers
- Liquor washer
- Dust control

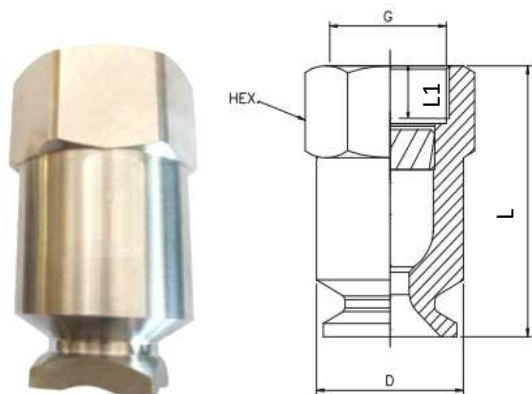


Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPP	42	15	32	27
1" BSPP	56	17	40	36

SPRAY ANGLE	END CONNECTION						Orifice	LPM						
	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT		PRESSURE(bar)						
								0.5	1	2	3	5	7	10
120°														
E381.100	YA						1.2	0.50	0.72	1.00	1.23	1.58	1.87	2.24
E381.130	YA						1.35	0.65	0.93	1.30	1.59	2.05	2.43	2.91
E381.150	YA						1.5	0.75	1.08	1.50	1.84	2.37	2.81	3.35
E381.174	YA						1.6	0.87	1.25	1.74	2.13	2.75	3.25	3.89
E381.200	YA						1.7	1.00	1.44	2.00	2.45	3.16	3.74	4.47
E381.250	YA	YB					1.9	1.25	1.80	2.50	3.06	3.95	4.68	5.59
E381.350		YB	YC				2.3	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E381.400		YB	YC				2.4	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E381.474		YB	YC				2.7	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E381.630			YC	YD			3.0	3.15	4.53	6.30	7.72	9.95	11.78	14.08
E381.800				YD			3.5	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E382.100				YD			4.0	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E382.125				YD	YE		4.3	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E382.160				YD	YE		5.0	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E382.200					YE		5.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E382.225						YF	5.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E382.250						YF	6.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E382.320						YF	6.4	16.00	23.00	32.00	39.20	50.56	59.84	71.52

Square Pattern full cone spray nozzle, Standard design
with self sealing thread connection. Stable spray angle,
Uniform distribution of liquid,

E3 Series



Design:

- Removable X Vane
- Non clogging type
- Axial flow square cone

Application :

- Cooling
- Product Washing
- Air & Gas Washing
- Scrubbers
- Liquor washer
- Dust control

Thread	L	L1	D	HEX
1 1/4" BSPT	87.5	20	50	51
1 1/2" BSPT	103	20	59	60
2" BSPP	138	22	75	76

SPRAY ANGLE	END CONNECTION			ORIFICE SIZE (MM)	LPM						
	1 1/4"	1 1/2"	2"		PRESSURE(bar)						
	BSPP	BSPP	BSPP		0.5	1	2	3	5	7	10
90°	BSPP	BSPP	BSPP								
E362.650	XG			9.0	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E362.800	XG			10.00	40.00	57.50	80.00	98.00	126.40	149.60	178.80
E363.100	XG			11.2	50.00	71.88	100.00	122.50	158.00	187.00	223.50
E363.118		XH		12.2	59.00	84.81	118.00	144.55	186.44	220.66	263.73
E363.130		XH		12.8	65.00	93.44	130.00	159.25	205.40	243.10	290.55
E363.160		XH		14.2	80.00	115.00	160.00	196.00	252.80	299.20	357.60
E363.200			XJ	15.8	100.00	143.75	200.00	245.00	316.00	374.00	447.00
E363.227			XJ	16.9	113.50	163.16	227.00	278.08	358.66	424.49	507.35
E363.250			XJ	17.7	125.00	179.69	250.00	306.25	395.00	467.50	558.75

SPRAY ANGLE	END CONNECTION			ORIFICE SIZE (MM)	LPM						
	1 1/4"	1 1/2"	2"		PRESSURE(bar)						
	BSPP	BSPP	BSPP		0.5	1	2	3	5	7	10
120°	BSPP	BSPP	BSPP								
E382.650	XG			9.9	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E382.800	XG			11.0	40.00	57.50	80.00	98.00	126.40	149.60	178.80
E383.100	XG			12.3	50.00	71.88	100.00	122.50	158.00	187.00	223.50
E383.118		XH		13.3	59.00	84.81	118.00	144.55	186.44	220.66	263.73
E383.130		XH		14.0	65.00	93.44	130.00	159.25	205.40	243.10	290.55
E383.160		XH		15.5	80.00	115.00	160.00	196.00	252.80	299.20	357.60
E383.200			XJ	17.4	100.00	143.75	200.00	245.00	316.00	374.00	447.00
E383.227			XJ	18.5	113.50	163.16	227.00	278.08	358.66	424.49	507.35
E383.250			XJ	19.4	125.00	179.69	250.00	306.25	395.00	467.50	558.75
E383.337			XJ	22.5	168.50	242.22	337.00	412.83	532.46	630.19	753.20



Spiral Full Cone Nozzle

Standard design with self sealing thread connection. Stable spray angle, Uniform distribution of liquid,

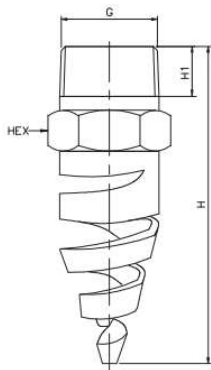
E4 Series

Design:

- One piece construction
- Non clogging type

Application :

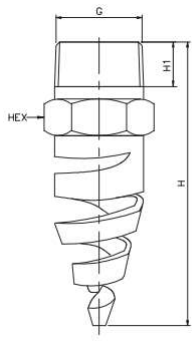
- Gas Washing
- Dust Suppression
- Cooling Tower
- Fire Fighting
- Scrubbing



MOC : SS 316, SS 304, Brass, PVDF, PVC, PP, PTFE.

Thread	H	H1	HEX	Thread	H	H1	HEX
1/4" BSPT	48	10	14	1" BSPT	108	16.8	36
3/8" BSPT	58	10	17	1 1/2" BSPT	138	19.1	51
1/2" BSPT	76	13.2	22	2" BSPT	148	23.4	64
3/4" BSPT	86	14.5	27	3" BSPT	216	29.8	89

SPRAY ANGLE	END CONNECTION					Orifice	LPM						
	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT		PRESSURE(bar)						
							0.5	1	2	3	5	7	10
60°													
E441.474	YB					2.4	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E441.650	YB					2.8	3.25	4.67	6.50	7.96	10.27	12.16	14.53
E441.800	YB					3.1	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E442.100	YB	YC				3.5	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E442.125	YB	YC				3.9	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E442.160		YC				4.4	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E442.200		YC				4.9	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E442.225		YC				5.2	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E442.250		YC				5.5	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E442.320		YC				6.2	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E442.400		YC				7.0	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E442.520		YC				7.9	26.00	37.38	52.00	63.70	82.16	97.24	116.22
E442.650			YD			8.9	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E442.800			YD			9.8	40.00	57.50	80.00	98.00	126.40	149.60	178.80
E443.100			YD			11.0	50.00	71.88	100.00	122.50	158.00	187.00	223.50
E443.118			YD			12.0	59.00	84.81	118.00	144.55	186.44	220.66	263.73
E443.130				YE		12.6	65.00	93.44	130.00	159.25	205.40	243.10	290.55
E443.160				YE		13.9	80.00	115.00	160.00	196.00	252.80	299.20	357.60
E443.200					YF	15.6	100.00	143.75	200.00	245.00	316.00	374.00	447.00
E443.227					YF	16.6	113.50	163.16	227.00	278.08	358.66	424.49	507.35
E443.250					YF	17.4	125.00	179.69	250.00	306.25	395.00	467.50	558.75
E443.337					YF	20.2	168.50	242.22	337.00	412.83	532.46	630.19	753.20

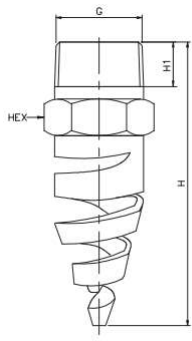


Spiral Full Cone Nozzle

E4 Series

Thread	H	H1	HEX	Thread	H	H1	HEX
1/4" BSPT	48	10	14	1" BSPT	108	16.8	36
3/8" BSPT	58	10	17	1 1/2" BSPT	138	19.1	51
1/2" BSPT	76	13.2	22	2" BSPT	148	23.4	64
3/4" BSPT	86	14.5	27	3" BSPT	216	29.8	89

SPRAY ANGLE	END CONNECTION								Orifice	LPM						
	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT	1 1/2" BSPT	2" BSPT	3" BSPT		PRESSURE(bar)						
										0.5	1	2	3	5	7	10
90°																
E461.474	YB								2.4	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E461.650	YB								2.8	3.25	4.67	6.50	7.96	10.27	12.16	14.53
E461.800	YB								3.1	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E462.100	YB	YC							3.5	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E462.125	YB	YC							3.9	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E462.160		YC							4.4	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E462.200		YC							4.9	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E462.225		YC							5.2	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E462.250		YC							5.5	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E462.320		YC							6.2	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E462.400		YC							7.0	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E462.520		YC							7.9	26.00	37.38	52.00	63.70	82.16	97.24	116.22
E462.650			YD						8.9	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E462.800			YD						9.8	40.00	57.50	80.00	98.00	126.40	149.60	178.80
E463.100			YD						11.0	50.00	71.88	100.00	122.50	158.00	187.00	223.50
E463.118			YD						12.0	59.00	84.81	118.00	144.55	186.44	220.66	263.73
E463.130				YE					12.6	65.00	93.44	130.00	159.25	205.40	243.10	290.55
E463.160				YE					13.9	80.00	115.00	160.00	196.00	252.80	299.20	357.60
E463.200					YF				15.6	100.00	143.75	200.00	245.00	316.00	374.00	447.00
E463.227					YF				16.6	113.50	163.16	227.00	278.08	358.66	424.49	507.35
E463.250					YF				17.4	125.00	179.69	250.00	306.25	395.00	467.50	558.75
E463.337					YF				20.2	168.50	242.22	337.00	412.83	532.46	630.19	753.20
E463.400						YH			22.0	200.00	287.50	400.00	490.00	632.00	748.00	894.00
E463.500						YH			24.6	250.00	359.38	500.00	612.50	790.00	935.00	1117.50
E463.625						YH			27.5	312.50	449.22	625.00	765.63	987.50	1168.75	1396.88
E463.710							YJ		29.3	355.00	510.31	710.00	869.75	1121.80	1327.70	1586.85
E463.800							YJ		31.1	400.00	575.00	800.00	980.00	1264.00	1496.00	1788.00
E464.1000							YJ		34.8	500.00	718.75	1000.00	1225.00	1580.00	1870.00	2235.00
E464.1250							YJ		38.9	625.00	898.44	1250.00	1531.25	1975.00	2337.50	2793.75
E464.1600								YL	44.0	800.00	1150.00	1600.00	1960.00	2528.00	2992.00	3576.00
E464.2000								YL	49.2	1000.00	1437.50	2000.00	2450.00	3160.00	3740.00	4470.00
E464.2500								YL	55.1	1250.00	1796.88	2500.00	3062.50	3950.00	4675.00	5587.50

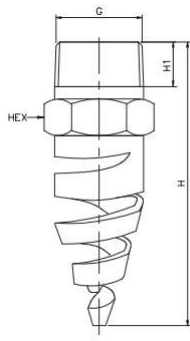


Spiral Full Cone Nozzle

E4 Series

Thread	H	H1	HEX	Thread	H	H1	HEX
1/4" BSPT	48	10	14	1" BSPT	108	16.8	36
3/8" BSPT	58	10	17	1 1/2" BSPT	138	19.1	51
1/2" BSPT	76	13.2	22	2" BSPT	148	23.4	64
3/4" BSPT	86	14.5	27	3" BSPT	216	29.8	89

SPRAY ANGLE	END CONNECTION								Orifice	LPM						
	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT	1 1/2" BSPT	2" BSPT	3" BSPT		PRESSURE(bar)						
										0.5	1	2	3	5	7	10
120°																
E481.474	YB								2.4	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E481.650	YB								2.8	3.25	4.67	6.50	7.96	10.27	12.16	14.53
E481.800	YB								3.1	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E482.100	YB	YC							3.5	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E482.125	YB	YC							3.9	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E482.160		YC							4.4	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E482.200		YC							4.9	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E482.225		YC							5.2	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E482.250		YC							5.5	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E482.320		YC							6.2	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E482.400		YC							7.0	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E482.520		YC							7.9	26.00	37.38	52.00	63.70	82.16	97.24	116.22
E482.650			YD						8.9	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E482.800			YD						9.8	40.00	57.50	80.00	98.00	126.40	149.60	178.80
E483.100			YD						11.0	50.00	71.88	100.00	122.50	158.00	187.00	223.50
E483.118			YD						12.0	59.00	84.81	118.00	144.55	186.44	220.66	263.73
E483.130				YE					12.6	65.00	93.44	130.00	159.25	205.40	243.10	290.55
E483.160				YE					13.9	80.00	115.00	160.00	196.00	252.80	299.20	357.60
E483.200					YF				15.6	100.00	143.75	200.00	245.00	316.00	374.00	447.00
E483.227					YF				16.6	113.50	163.16	227.00	278.08	358.66	424.49	507.35
E483.250					YF				17.4	125.00	179.69	250.00	306.25	395.00	467.50	558.75
E483.337					YF				20.2	168.50	242.22	337.00	412.83	532.46	630.19	753.20
E483.400						YH			22.0	200.00	287.50	400.00	490.00	632.00	748.00	894.00
E483.500						YH			24.6	250.00	359.38	500.00	612.50	790.00	935.00	1117.50
E483.625						YH			27.5	312.50	449.22	625.00	765.63	987.50	1168.75	1396.88
E483.710							YJ		29.3	355.00	510.31	710.00	869.75	1121.80	1327.70	1586.85
E483.800							YJ		31.1	400.00	575.00	800.00	980.00	1264.00	1496.00	1788.00
E484.1000							YJ		34.8	500.00	718.75	1000.00	1225.00	1580.00	1870.00	2235.00
E484.1250							YJ		38.9	625.00	898.44	1250.00	1531.25	1975.00	2337.50	2793.75
E484.1600								YL	44.0	800.00	1150.00	1600.00	1960.00	2528.00	2992.00	3576.00
E484.2000								YL	49.2	1000.00	1437.50	2000.00	2450.00	3160.00	3740.00	4470.00
E484.2500								YL	55.1	1250.00	1796.88	2500.00	3062.50	3950.00	4675.00	5587.50

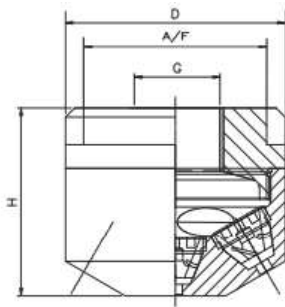
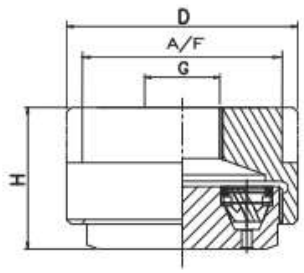


Spiral Full Cone Nozzle

E4 Series

Thread	H	H1	HEX	Thread	H	H1	HEX
1/4" BSPT	48	10	14	1" BSPT	108	16.8	36
3/8" BSPT	58	10	17	1 1/2" BSPT	138	19.1	51
1/2" BSPT	76	13.2	22	2" BSPT	148	23.4	64
3/4" BSPT	86	14.5	27	3" BSPT	216	29.8	89

SPRAY ANGLE	END CONNECTION							Orifice	LPM						
	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT	1 1/2" BSPT	2" BSPT		PRESSURE(bar)						
									0.5	1	2	3	5	7	10
180°															
E4A1.474	YB							2.4	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E4A1.650	YB							2.8	3.25	4.67	6.50	7.96	10.27	12.16	14.53
E4A1.800	YB							3.1	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E4A2.100	YB	YC						3.5	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E4A2.125	YB	YC						3.9	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E4A2.160		YC						4.4	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E4A2.200		YC						4.9	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E4A2.225		YC						5.2	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E4A2.250		YC						5.5	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E4A2.320		YC						6.2	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E4A2.400		YC						7.0	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E4A2.520		YC						7.9	26.00	37.38	52.00	63.70	82.16	97.24	116.22
E4A2.650			YD					8.9	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E4A2.800			YD					9.8	40.00	57.50	80.00	98.00	126.40	149.60	178.80
E4A3.100			YD					11.0	50.00	71.88	100.00	122.50	158.00	187.00	223.50
E4A3.118			YD					12.0	59.00	84.81	118.00	144.55	186.44	220.66	263.73
E4A3.130				YE				12.6	65.00	93.44	130.00	159.25	205.40	243.10	290.55
E4A3.160				YE				13.9	80.00	115.00	160.00	196.00	252.80	299.20	357.60
E4A3.200					YF			15.6	100.00	143.75	200.00	245.00	316.00	374.00	447.00
E4A3.227					YF			16.6	113.50	163.16	227.00	278.08	358.66	424.49	507.35
E4A3.250					YF			17.4	125.00	179.69	250.00	306.25	395.00	467.50	558.75
E4A3.337					YF			20.2	168.50	242.22	337.00	412.83	532.46	630.19	753.20
E4A3.400						YH		22.0	200.00	287.50	400.00	490.00	632.00	748.00	894.00
E4A3.500						YH		24.6	250.00	359.38	500.00	612.50	790.00	935.00	1117.50
E4A3.625						YH		27.5	312.50	449.22	625.00	765.63	987.50	1168.75	1396.88
E4A3.710							YJ	29.3	355.00	510.31	710.00	869.75	1121.80	1327.70	1586.85
E4A3.800							YJ	31.1	400.00	575.00	800.00	980.00	1264.00	1496.00	1788.00
E4A4.1000							YJ	34.8	500.00	718.75	1000.00	1225.00	1580.00	1870.00	2235.00
E4A4.1250							YI	38.9	625.00	898.44	1250.00	1531.25	1975.00	2337.50	2793.75



Multiple Full Cone Nozzle

E5 Series

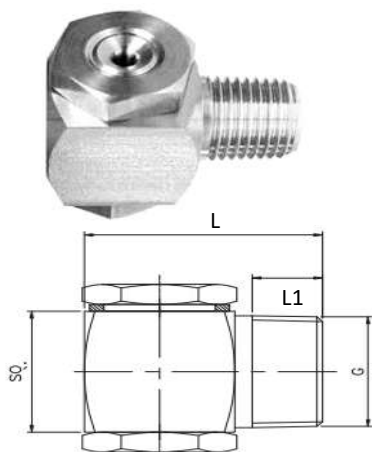
- Fine full cone atomization with the aid of several hollow cones spraying into one another
- Material : SS316, SS304, Brass, PVC, PP

Spray Angle	Thread	H	D	HEX
75°	1/2"BSPP	30	50	46
	3/4"BSPP	46	75	65
130°	1/2"BSPP	38	40	30
	3/4"BSPP	51.5	60	50

Application : Cooling of Gaseous and solid material, Desuperheaters, Chlorine precipitation, to improve chemical reaction

SPRAY ANGLE	END CONNECTION		Orifice	LPM						
	1/2" BSPP	3/4" BSPP		PRESSURE(bar)						
75°						0.5	1	2	3	5
E561.100	XD		2.2	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E561.130	XD		2.50	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E561.150	XD		2.8	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E561.174		XE	3.2	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E561.200		XE	3.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E561.250		XE	3.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E561.350		XE	4.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E561.400		XE	4.5	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E561.474		XE	5.0	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E561.630		XE	5.7	26.00	37.38	52.00	63.70	82.16	97.24	116.22

SPRAY ANGLE	END CONNECTION		Orifice	LPM						
	1/2" BSPP	3/4" BSPP		PRESSURE(bar)						
130°						0.5	1	2	3	5
E561.100	XD		2.2	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E561.130	XD		2.50	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E561.150	XD		2.8	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E561.174		XE	3.2	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E561.200		XE	3.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E561.250		XE	3.8	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E561.350		XE	4.0	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E561.400		XE	4.5	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E561.474		XE	5.0	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E561.630		XE	5.7	26.00	37.38	52.00	63.70	82.16	97.24	116.22



Tangential Entry Vane less Full Cone Spray Nozzle,
Standard design with self sealing thread connection.
Stable spray angle, Uniform distribution of liquid,
parabolic distribution of liquid.

E6 Series

Thread	L	L1	Square
1/4" BSPT	35	10	16
3/8" BSPT	35	10	20
1/2" BSPT	35	10	20
3/4" BSPP	45	13	25
1" BSPP	57	16	30

Application :

- Washing
- Chemical reactions
- Cleaning
- Cleaning of gas
- Cleaning of Solid Products

SPRAY ANGLE	END CONNECTION					Orifice	LPM						
	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT		PRESSURE(bar)						
0.5							1	2	3	5	7	10	
60°													
E641.350	YB	YC				2.6	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E641.400	YB	YC				2.9	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E641.475		YC				3.2	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E641.650		YC				3.5	3.25	4.67	6.50	7.96	10.27	12.16	14.53

90° SPRAY NOZZLE

E661.350	YB					2.6	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E661.400	YB					2.9	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E661.475		YC				3.2	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E661.650		YC				3.5	3.25	4.67	6.50	7.96	10.27	12.16	14.53
E661.800		YC				3.6	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E662.100		YC				4.3	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E662.125		YC				5.1	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E662.160		YC				5.8	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E662.200			YD			6.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E662.225			YD			7.3	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E662.250			YD			9.6	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E662.320				YE		11.5	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E662.400					YF	8.5	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E662.520					YF	10.5	26.00	37.38	52.00	63.70	82.16	97.24	116.22

120° SPRAY NOZZLE

E681.350	YB					2.6	1.75	2.52	3.50	4.29	5.53	6.55	7.82
E681.400	YB					2.9	2.00	2.88	4.00	4.90	6.32	7.48	8.94
E681.475		YC				3.2	2.37	3.41	4.74	5.81	7.49	8.86	10.59
E681.650		YC				3.5	3.25	4.67	6.50	7.96	10.27	12.16	14.53
E681.800		YC				3.6	4.00	5.75	8.00	9.80	12.64	14.96	17.88
E682.100		YC				4.3	5.00	7.19	10.00	12.25	15.80	18.70	22.35
E682.125		YC				5.1	6.25	8.98	12.50	15.31	19.75	23.38	27.94
E682.160		YC				5.8	8.00	11.50	16.00	19.60	25.28	29.92	35.76
E682.200			YD			6.5	10.00	14.38	20.00	24.50	31.60	37.40	44.70
E682.225			YD			7.3	11.25	16.17	22.50	27.56	35.55	42.08	50.29
E682.250			YD			9.6	12.50	17.97	25.00	30.63	39.50	46.75	55.88
E682.320				YE		11.5	16.00	23.00	32.00	39.20	50.56	59.84	71.52
E682.400					YF	8.5	20.00	28.75	40.00	49.00	63.20	74.80	89.40
E682.520					YF	10.5	26.00	37.38	52.00	63.70	82.16	97.24	116.22
E682.650					YF	11.7	32.50	46.72	65.00	79.63	102.70	121.55	145.28
E682.720					YF	12.4	36.00	51.75	72.00	88.20	113.76	134.64	160.92
E682.800					YF	13.0	40.00	57.50	80.00	98.00	126.40	149.60	178.80