

Flat Spray Nozzles Series

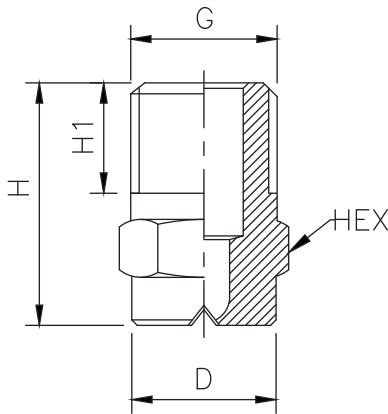


APPLICATION

- Belt cleaning
- Coating
- Steam cleaning
- Degreasing
- High pressure cleaning
- Gravel washing
- Cooling
- Surface treatment
- Phosphating
- Rain curtains
- Foam control
- Foam spraying
- Lubrication
- Filter cleaning
- Spray cleaning
- Washing processes and many others...

CA Series Flat Spray Nozzles

CA



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

Design : One piece construction, Non clogging type.

Application : Rinsing, Lubricating, Industrial washing machines, Cake washing in Centrifuge, CIP, Tray washing.

'C' Series Flat Spray Nozzles are designed for high pressure / high impact washing application. These nozzles are specially designed and machined with precision which allows even spray coverage and distribution. This results in effective and uniform cleaning action over the surface being processed. Flat spray nozzles are available in all steel grades, Plastics & other alloys. Spray angle range available from 15° to 120°

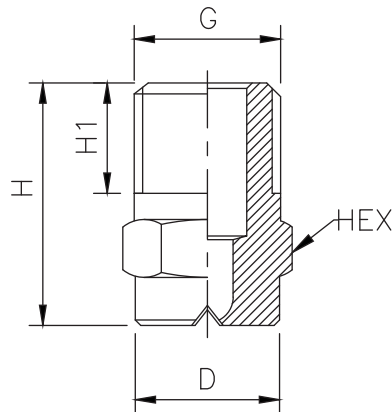
MODEL NO.	CONNECTION END		ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE			
	YA	YB		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3	P1/P2
15° SPRAY ANGLE	1/8" BSPT	1/4" BSPT			0.5	1.0	2.0	3.0	5.0	7.0	10.0	G/A D IMENSIION. MM			
				40*psi							H	H1	D	HEX	
CA11.050	YA	YB	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12				
CA11.075	YA	YB	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	YA			
CA11.100	YA	YB	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	18	6.5	10.2	11
CA11.150	YA	YB	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35	Weight (Metals) = 8.5 gms. Approx			
CA11.175	YA	YB	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91				
CA11.200	YA	YB	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47				
CA11.250	YA	YB	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59	YB			
CA11.350	YA	YB	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	22	10	13	14
CA11.400	YA	YB	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94	Weight (Metals) = 17.5 gms. Approx			
CA11.475	YA	YB	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CA11.650	YA	YB	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CA11.800	YA	YB	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CA21.100		YB	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36				
CA21.125		YB	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95				
CA21.160		YB	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78				
CA21.200		YB	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72				
CA21.225		YB	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31				
CA21.250		YB	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90				

* Flow rate in US GPM @40 psi Pressure

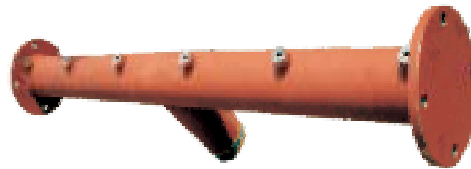
Standard design with connection suitable spray angle uniform distribution of liquid. The internal geometry of each nozzles is specifically engineered to provide maximum uniformity of the spray angle and flow rate.

Application :

- Spray Coating
- Lubricating
- Circuit Board Rinsing
- Metal Processing
- Part Washing



Headers



MODEL NO.	CONNECTION END		ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE				
	YA	YB		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3	P1/P2	
30° SPRAY ANGLE	1/8" BSPT	1/4" BSPT	40°psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	G/A D IMENSION. MM				
											H	H1	D	HEX		
CA12.050	YA	YB	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	YA	18	6.5	10.2	11
CA12.075	YA	YB	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	SS304/SS316	Brass	PVC/PP	Weight (Metals) = 8.5 gms. Approx	
CA12.100	YA	YB	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24					
CA12.150	YA	YB	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35	YB	22	10	13	14
CA12.175	YA	YB	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91					
CA12.200	YA	YB	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47	Weight (Metals) = 17.5 gms. Approx				
CA12.250	YA	YB	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59	YB	22	10	13	14
CA12.350	YA	YB	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83					
CA12.400	YA	YB	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94	Weight (Metals) = 17.5 gms. Approx				
CA12.475	YA	YB	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62	YB	22	10	13	14
CA12.650	YA	YB	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53					
CA12.800	YA	YB	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 17.5 gms. Approx				
CA22.100		YB	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36	YB	22	10	13	14
CA22.125		YB	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95					
CA22.160		YB	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	Weight (Metals) = 17.5 gms. Approx				
CA22.200		YB	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72	YB	22	10	13	14
CA22.225		YB	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31					
CA22.250		YB	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	Weight (Metals) = 17.5 gms. Approx				

* Flow rate in US GPM @40 psi Pressure

CA Series Flat Spray Nozzles

MODEL NO.	CONNECTION END				ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE			
	YA	YB	YC	YD		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3	P1/P2
45° SPRAY ANGLE	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT			40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	D
CA13.050	YA	YB			0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	YA			
CA13.075	YA	YB			1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	18	6.5	10.2	11
CA13.100	YA	YB			1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24				
CA13.150	YA	YB				0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35				
CA13.175	YA	YB			1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91				
CA13.200	YA	YB			1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47				
CA13.250	YA	YB			1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59	YB			
CA13.350	YA	YB			2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	22	10	13	14
CA13.400	YA	YB			2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94				
CA13.475	YA	YB			2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CA13.650	YA	YB			3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CA13.800	YA	YB			3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CA23.100		YB	YC		3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36	YC			
CA23.125		YB	YC		4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	25	12	16	17
CA23.160		YB	YC		4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	Weight (Metals) = 25.0 gms. Approx			
CA23.200		YB	YC		5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72				
CA23.225		YB	YC		5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31	YD			
CA23.250		YB	YC		6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	27	13.2	21	22
CA23.320			YC	YD	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55				
CA23.400			YC	YD	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44				
CA23.520				YD	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28				
CA23.650				YD	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34				
CA23.800				YD	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89				

MODEL NO.	CONNECTION END				ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE			
	YA	YB	YC	YD		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3	P1/P2
60° SPRAY ANGLE	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT			40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	D
CA14.050	YA	YB			0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	YA			
CA14.075	YA	YB			1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	18	6.5	10.2	11
CA14.100	YA	YB			1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24				
CA14.150	YA	YB			1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35				
CA14.175	YA	YB			1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91				
CA14.200	YA	YB			1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47				
CA14.250	YA	YB			1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59	YB			
CA14.350	YA	YB			2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	22	10	13	14
CA14.400	YA	YB			2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94				
CA14.475	YA	YB			2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CA14.650	YA	YB			3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CA14.800	YA	YB			3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CA24.100		YB	YC		3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36	YC			
CA24.125		YB	YC		4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	25	12	16	17
CA24.160		YB	YC		4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	Weight (Metals) = 25.0 gms. Approx			
CA24.200		YB	YC		5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72				
CA24.225		YB	YC		5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31	YD			
CA24.250			YC		6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	27	13.2	21	22
CA24.320			YC	YD	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55				
CA24.400			YC	YD	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44	Weight (Metals) = 39.0 gms. Approx			
CA24.520				YD	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28				
CA24.650				YD	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34				
CA24.800				YD	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89				

* Flow rate in US GPM @40 psi Pressure

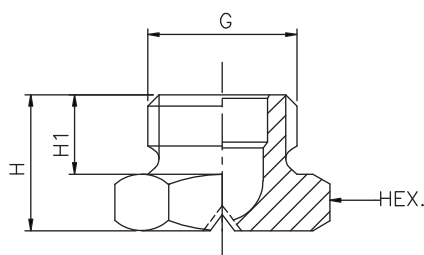
MODEL NO.	CONNECTION END				ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE			
	YA	YB	YC	YD		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3	P1/P2
90° SPRAY ANGLE	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT			40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass	PVC/PP
														G/A D IMENSION. MM			
														H	H1	D	HEX
CA16.050	YA	YB			0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	YA			
CA16.075	YA	YB			1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	18	6.5	10.2	11
CA16.100	YA	YB			1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	Weight (Metals) = 8.5 gms. Approx			
CA16.150	YA	YB			1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35	YB			
CA16.175	YA	YB			1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91	22	10	13	14
CA16.200	YA	YB			1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47	Weight (Metals) = 17.5 gms. Approx			
CA16.250	YA	YB			1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59				
CA16.350	YA	YB			2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83				
CA16.400	YA	YB			2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94				
CA16.475	YA	YB			2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CA16.650	YA	YB			3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CA16.800	YA	YB			3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CA26.100		YB	YC		3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36	YC			
CA26.125		YB	YC		4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	25	12	16	17
CA26.160		YB	YC		4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	Weight (Metals) = 25.0 gms. Approx			
CA26.200		YB	YC		5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72	YD			
CA26.225		YB	YC		5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31	27	13.2	21	22
CA26.250			YC		6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	Weight (Metals) = 39.0 gms. Approx			
CA26.320			YC	YD	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55				
CA26.400			YC	YD	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44				
CA26.520				YD	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28				
CA26.650				YD	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34				
CA26.800				YD	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89				

MODEL NO.	CONNECTION END			ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE				
	YA	YB	YC		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3	P1/P2	
120° SPRAY ANGLE	1/8" BSPT	1/4" BSPT	3/8" BSPT			40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass	PVC/PP	
														G/A D IMENSION. MM			
														H	H1	D	HEX
CA18.050	YA	YB			0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12				
CA18.075	YA	YB			1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68				
CA18.100	YA	YB			1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	YA			
CA18.150	YA	YB			1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35	18	6.5	10.2	11
CA18.175	YA	YB			1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91				
CA18.200	YA	YB			1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47	YB			
CA18.250	YA	YB			1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59	22	10	13	14
CA18.350	YA	YB			2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83				
CA18.400	YA	YB			2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94				
CA18.475	YA	YB			2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CA18.650	YA	YB			3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CA18.800	YA	YB			3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CA28.100		YB	YC		3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36				
CA28.125		YB	YC		4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95				
CA28.160		YB	YC		4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	YC			
CA28.200		YB	YC		5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72	25	12	16	17
CA28.225		YB	YC		5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31				
CA28.250			YC		6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90				
CA28.320			YC		6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55				
CA28.400			YC		7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44				

* Flow rate in US GPM @40 psi Pressure

CB Series Flat Spray Nozzles

CB



Uniform, Parabolic distribution of liquid. Compact design, suitable for confined installation conditions.

Application :

Cleaning plants, spray headers, cooling pipes.

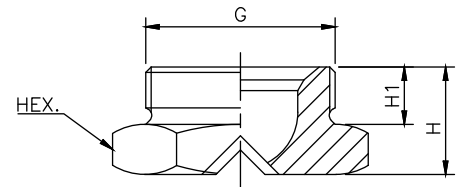
Small flow rates upon request.

MODEL NO.	END CONNECTION	Orifice Size (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE			
	XB		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3	P1/P2
15° Spray Angle	1/4" BSPP												SS304/SS316	BRASS
												G/A D IMENSION. MM		
			40° psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	HEX	
CB11.050	XB	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	XB			
CB11.075	XB	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	13	8	17	
CB11.100	XB	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24				
CB11.150	XB	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35				
CB11.175	XB	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91	Weight (Metals) = 11.0 gms. Approx			
CB11.200	XB	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47				
CB11.250	XB	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59				
CB11.350	XB	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83				
CB11.400	XB	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94				
CB11.475	XB	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CB11.650	XB	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CB11.800	XB	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CB21.100	XB	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36				
CB21.125	XB	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95				
CB21.160	XB	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78				
CB21.200	XB	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72				

MODEL NO.	END CONNECTION	Orifice Size (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE			
	XB		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3	P1/P2
30° Spray Angle	1/4" BSPP												SS304/SS316	BRASS
												G/A D IMENSION. MM		
			40° psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	HEX	
CB12.050	XB	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	XB			
CB12.075	XB	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	13	8	17	
CB12.100	XB	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24				
CB12.150	XB	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35				
CB12.175	XB	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91	Weight (Metals) = 11.0 gms. Approx			
CB12.200	XB	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47				
CB12.250	XB	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59				
CB12.350	XB	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83				
CB12.400	XB	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94				
CB12.475	XB	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CB12.650	XB	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CB12.800	XB	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CB22.100	XB	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36				
CB22.125	XB	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95				
CB22.160	XB	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78				
CB22.200	XB	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72				

* Flow rate in US GPM @40 psi Pressure

CB type nozzles deliver a flat spray with parabolic distribution pattern, which allows for obtaining an even distribution when several nozzles are assembled in a row on to a manifold. Their short body design makes it possible to use nozzle spray pipes in such machines or systems where the available space is very limited. CB nozzles are manufactured in two different capacity ranges, out of brass or 303 stainless steel and on request from a choice of additional metallic and plastic materials. Because of their limited length these nozzles can only be produced with a straight BSP thread and require some extra care when being assembled to get the proper flat alignment also note the different dimensions given in the table below

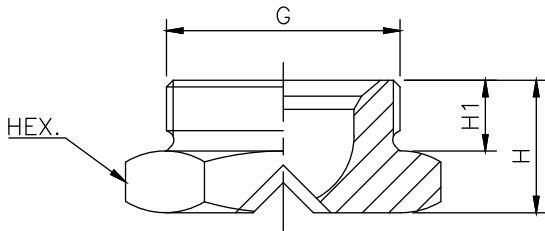


Application :

- Cooling of Roll Stock
- Water Treatment
- Cleaning Plants

MODEL NO.	END CONNECTION					ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE		
	XB	XE	XF	XG	XK		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3
45° SPRAY ANGLE	1/4" BSPP	3/4" BSPP	1" BSPP	1 1/4" BSPP	2" BSPP			40°psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass
															G/A D IMENSION. MM		
															H	H1	HEX
CB13.050	XB					0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	XB		
CB13.075	XB					1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	13	8	17
CB13.100	XB					1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	Weight (Metals)= 11.0 gms. Approx		
CB13.150	XB					1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CB13.175	XB					1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CB13.200	XB					1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CB13.250	XB					1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CB13.350	XB					2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CB13.400	XB					2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CB13.475	XB					2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CB13.650	XB					3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CB13.800	XB					3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CB23.100	XB					3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CB23.125	XB					4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CB23.160	XB					4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CB23.200	XB					5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CB23.225	XB					5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CB23.250		XE				6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CB23.320		XE				6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CB23.400		XE				7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44	XE		
CB23.520		XE	XF			8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	15	9	32
CB23.650		XE	XF	XG		9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	Weight (Metals) = 52.0 gms. Approx		
CB23.800		XE	XF	XG		11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89	XF		
CB33.100		XE	XF	XG		11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6	20	12	36
CB33.160				XG	XK	14.3	49.05	80.00	113.14	160.0	195.96	252.98	299.33	357.77	Weight (Metals) = 115.0 gms. Approx		
CB33.175					XK	14.9	53.64	87.50	123.74	175.0	214.33	276.70	327.40	391.31	XG		
CB33.200					XK	16.0	61.31	100.0	141.42	200.0	244.95	316.23	374.17	447.21	22	14	50
CB33.250					XK	17.8	76.63	125.0	176.78	250.0	306.19	395.28	467.71	559.02	Weight (Metals) = 218.0 gms. Approx		
CB33.325					XK	20.3	99.62	162.5	229.81	325.0	398.04	513.87	608.02	726.72	XK		
CB33.430					XK	23.4	131.81	215.0	304.06	430.0	526.64	679.89	804.46	961.51	32	20	70

* Flow rate in US GPM @40 psi Pressure



Characteristic

Increased, Non-clogging features. mor jet energy, Low share of fog. Headers, Equipped with these nozzles, Shows a highly uniform total distribution of liquids, Even at different installation heights and centers.

Application :

Cleaning plants spray headers, cooling pipes roll cooling of rolled products.

MODEL NO.	END CONNECTION					ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES							MATERIAL CODE			
	XB	XE	XF	XG	XK		Flow Capacity in GPM	Pressure [bar]							M1/M2	M3	P1/P2
60° SPRAY ANGLE	1/4" BSPP	3/4" BSPP	1" BSPP	1 1/4" BSPP	2" BSPP			0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass	PVC/PP
							40*psi							G/A D IMENSION. MM			
														H	H1	HEX	
CB14.050	XB					0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	XB		
CB14.075	XB					1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	13	8	17
CB14.100	XB					1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CB14.150	XB					1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CB14.175	XB					1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CB14.200	XB					1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CB14.250	XB					1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CB14.350	XB					2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CB14.400	XB					2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CB14.475	XB					2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CB14.650	XB					3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CB14.800	XB					3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CB24.100	XB					3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CB24.125	XB					4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CB24.160	XB					4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CB24.200	XB					5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CB24.225	XB					5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CB24.250	XB					6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CB24.320		XE				6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CB24.400		XE				7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CB24.520		XE	XF			8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	XE		
CB24.650		XE	XF	XG		9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	15	9	32
CB24.800		XE	XF	XG		11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89			
CB34.100		XE	XF	XG		11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6	XF		
CB34.160				XG	XK	14.3	49.05	80.00	113.14	160.0	195.96	252.98	299.33	357.77	20	12	36
CB34.175					XK	14.9	53.64	87.50	123.74	175.0	214.33	276.70	327.40	391.31	XG		
CB34.200					XK	16.0	61.31	100.0	141.42	200.0	244.95	316.23	374.17	447.21	22	14	50
CB34.250					XK	17.8	76.63	125.0	176.78	250.0	306.19	395.28	467.71	559.02			
CB34.325					XK	20.3	99.62	162.5	229.81	325.0	398.04	513.87	608.02	726.72	XK		
CB34.430					XK	23.4	131.81	215.0	304.06	430.0	526.64	679.89	804.46	961.51	32	20	70

* Flow rate in US GPM @40 psi Pressure

Increased, non-clogging features, more jet energy, low share of fog. Headers, equipped with these nozzles, show a highly uniform total distribution of liquids, even at different installation heights and centers. These types of nozzles provide uniform parabolic distribution of liquid.

Application:

Cleaning plants, spray headers, cooling pipes, roll cooling, cooling of rolled products.

MODEL NO.	END CONNECTION					ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES							MATERIAL CODE			
	XB	XE	XF	XG	XK		Flow Capacity in GPM	Pressure [bar]							M1/M2	M3	P1/P2
90° SPRAY ANGLE	1/4" BSPP	3/4" BSPP	1" BSPP	1 1/4" BSPP	2" BSPP			40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass
															G/A D IMENSION. MM		
															H	H1	HEX
CB16.050	XB					0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	XB		
CB16.075	XB					1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	13	8	17
CB16.100	XB					1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	Weight (Metals)= 11.0 gms. Approx		
CB16.150	XB					1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CB16.175	XB					1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CB16.200	XB					1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CB16.250	XB					1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CB16.350	XB					2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CB16.400	XB					2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CB16.475	XB					2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CB16.650	XB					3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CB16.800	XB					3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CB26.100	XB					3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CB26.125	XB					4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CB26.160	XB					4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CB26.200	XB					5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CB26.225	XB					5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CB26.250		XE				6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CB26.320		XE				6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55	XE		
CB26.400		XE	XF			7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44	15	9	32
CB26.520		XE	XF	XG		8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	Weight (Metals)= 52.0 gms. Approx		
CB26.650		XE	XF	XG		9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	XF		
CB26.800		XE	XF	XG		11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89	20	12	36
CB36.100		XE	XF	XG		11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6	Weight (Metals)= 115.0 gms. Approx		
CB36.160				XG	XK	14.3	49.05	80.00	113.14	160.0	195.96	252.98	299.33	357.77	XG		
CB36.175					XK	14.9	53.64	87.50	123.74	175.0	214.33	276.70	327.40	391.31	22	14	50
CB36.200					XK	16.0	61.31	100.0	141.42	200.0	244.95	316.23	374.17	447.21	Weight (Metals)= 218.0 gms. Approx		
CB36.250					XK	17.8	76.63	125.0	176.78	250.0	306.19	395.28	467.71	559.02	XK		
CB36.325					XK	20.3	99.62	162.5	229.81	325.0	398.04	513.87	608.02	726.72	32	20	70
CB36.430					XK	23.4	131.81	215.0	304.06	430.0	526.64	679.89	804.46	961.51	Weight (Metals)= 340.0 gms. Approx		

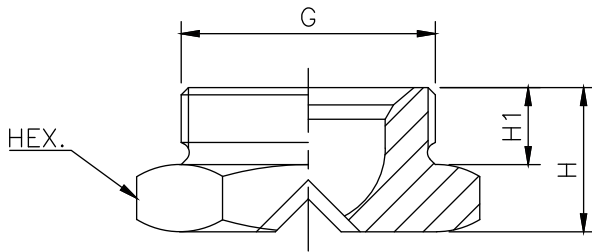
* Flow rate in US GPM @40 psi Pressure

CB Series Flat Spray Nozzles

CB



CB nozzles are manufactured in two different capacity ranges out of Brass or 303 stainless steel and in request from a choice of additional metallic and plastic material. Because of their limited length these nozzles can only be produced with a straight BSP thread also note the different dimension given in the table below.



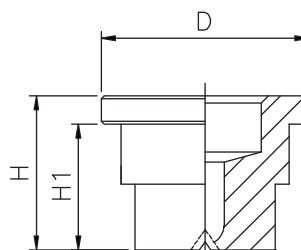
MODEL NO.	END CONNECTION					ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE		
	XB	XE	XF	XG	XK		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3
120° SPRAY ANGLE	1/4" BSPP	3/4" BSPP	1" BSPP	1 1/4" BSPP	2" BSPP	40°psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass	PVC/PP
G/A D IMENSION. MM																	
H H1 HEX																	
CB18.050	XB					0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	XB		
CB18.075	XB					1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	13	8	17
CB18.100	XB					1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	Weight (Metals) = 12.0 gms. Approx		
CB18.150	XB					1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CB18.175	XB					1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CB18.200	XB					1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CB18.250	XB					1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CB18.350	XB					2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CB18.400	XB					2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CB18.475	XB					2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CB18.650	XB					3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CB18.800	XB					3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CB28.100	XB					3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CB28.125	XB					4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CB28.160	XB					4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CB28.200		XE				5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CB28.225		XE				5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31	XE		
CB28.250		XE				6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	15	9	32
CB28.320		XE				6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55	Weight (Metals) = 56.0 gms. Approx		
CB28.400		XE				7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CB28.520		XE	XF			8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	XF		
CB28.650		XE	XF	XG		9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	20	12	36
CB28.800		XE	XF	XG		11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89			
CB38.100		XE	XF	XG		11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6	XG		
CB38.160				XG	XK	14.3	49.05	80.00	113.14	160.0	195.96	252.98	299.33	357.77	22	14	50
CB38.175					XK	14.9	53.64	87.50	123.74	175.0	214.33	276.70	327.40	391.31			
CB38.200					XK	16.0	61.31	100.0	141.42	200.0	244.95	316.23	374.17	447.21			
CB38.250					XK	17.8	76.63	125.0	176.78	250.0	306.19	395.28	467.71	559.02	XK		
CB38.325					XK	20.3	99.62	162.5	229.81	325.0	398.04	513.87	608.02	726.72	32	20	70
CB38.430					XK	23.4	131.81	215.0	304.06	430.0	526.64	679.89	804.46	961.51			

* Flow rate in US GPM @40 psi Pressure

CC Series Flat Spray Nozzles

CC

Versatile program offering a wide range of performance and stable jet angles, easy adjusting of jet by means of loosening the nut stable jet angles headers, equipped with these nozzles, show a highly uniform total distribution of liquids, even at different installation heights and centers universally suitable.



Application :

Jet cleaning, surface treatment, filter cleaning, band cleaning, lubricating, coating.

Flat nozzle tips are usually mounted onto a pipe by means of a welded nipple or a clamp, and secured in place with a retaining nut. Seals are available for higher pressure operation. They can be therefore easily replaced and the jet can be conveniently oriented in the desired direction.

The tip models shown in this page deliver very low flow values, the precision machined tiny orifices can be protected against the risk of plugging by means of a filter fitting inside our nipples and clamps which are designed for this purpose.

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]							M1/M2	M3	
15° Spray Angle	40*psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass	
										G/A D IMENSION. MM		
										H	H1	D
CC11.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	11	9	14.8
CC11.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	Weight (Metals) = 9.0 gms. Approx		
CC11.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CC11.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CC11.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CC11.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CC11.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CC11.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CC11.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CC11.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CC11.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CC11.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CC21.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CC21.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CC21.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CC21.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CC21.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CC21.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			

*Flow rate in US GPM @40 psi Pressure

CC Series Flat Spray Nozzles

CC

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
30° Spray Angle	40*psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	D
CC12.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	11	9	14.8
CC12.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	Weight (Metals) = 9.0 gms. Approx		
CC12.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CC12.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CC12.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CC12.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CC12.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CC12.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CC12.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CC12.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CC12.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CC12.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CC22.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CC22.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CC22.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CC22.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CC22.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CC22.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
45° Spray Angle	40*psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	D
CC13.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	11	9	14.8
CC13.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	Weight (Metals) = 9.0 gms. Approx		
CC13.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CC13.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CC13.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CC13.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CC13.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CC13.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CC13.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CC13.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CC13.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CC13.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CC23.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CC23.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CC23.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CC23.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CC23.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CC23.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			

*Flow rate in US GPM @40 psi Pressure

CC Series Flat Spray Nozzles

CC

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]							M1/M2	M3	
60° Spray Angle										SS304/ SS316	Brass	
										G/A D IMENSION. MM		
										H	H1	D
		40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	11	9	14.8
CC14.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12			
CC14.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68			
CC14.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CC14.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35	Weight (Metals) = 9.0 gms. Approx		
CC14.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CC14.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CC14.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CC14.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CC14.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CC14.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CC14.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CC14.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CC24.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CC24.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CC24.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CC24.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CC24.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CC24.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			

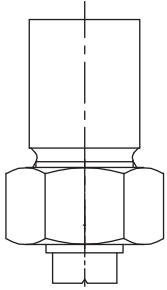
Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]							M1/M2	M3	
90° Spray Angle										SS304/ SS316	Brass	
										G/A D IMENSION. MM		
										H	H1	D
		40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	11	9	14.8
CC16.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12			
CC16.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68			
CC16.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	Weight (Metals) = 9.0 gms. Approx		
CC16.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CC16.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CC16.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CC16.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CC16.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CC16.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CC16.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CC16.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CC16.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CC26.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CC26.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CC26.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CC26.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CC26.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			

*Flow rate in US GPM @40 psi Pressure

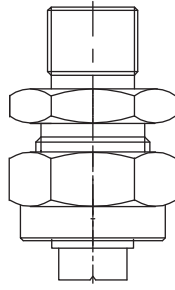
CC Series Flat Spray Nozzles

CC

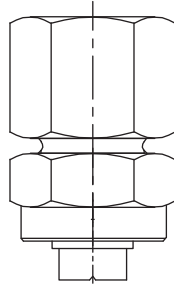
Type of Fitting Arrangements



Weldable



Threaded (M)



Threaded (F)

Typical application :

- Spray Coating
- Lubricating
- Metal Processing
- Spray Cooling
- Parts Washing

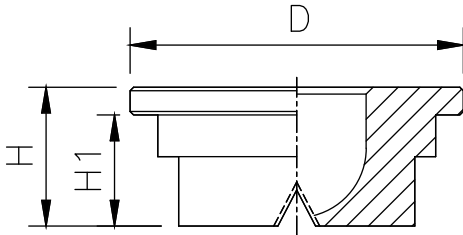


Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
120° Spray Angle	40*psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/ SS316	Brass	
											G/A D IMENSION. MM	
										H	H1	D
CC18.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	11	9	14.8
CC18.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68			
CC18.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CC18.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CC18.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CC18.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CC18.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CC18.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CC18.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CC18.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CC18.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CC18.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CC28.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CC28.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CC28.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CC28.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CC28.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			

*Flow rate in US GPM @40 psi Pressure

CD Series Flat Spray Nozzles

CD



Headers, Equipped with these nozzles, Show a highly uniform total distribution of liquids even at different installation heights and centers.

Application

Cleaning plants, Spray headers cooling pipes roll products. Connection to pipe by means of nut and nipple.

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE			
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3	
15° Spray Angle			40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/ SS316	Brass	
											G/A D IMENSION. MM		
											H	H1	D
CD11.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	10	8	24	
CD11.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 12 gms. Approx			
CD21.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36				
CD21.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95				
CD21.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78				
CD21.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72				
CD21.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31				
CD21.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90				
CD21.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55				
CD21.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44				
CD21.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28				
CD21.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34				
CD21.800	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89				
CD31.100	11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6				
30° SPRAY ANGLE													
CD12.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	10	8	24	
CD12.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 12 gms. Approx			
CD22.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36				
CD22.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95				
CD22.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78				
CD22.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72				
CD22.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31				
CD22.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90				
CD22.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55				
CD22.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44				
CD22.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28				
CD22.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34				
CD22.800	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89				
CD32.100	11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6				

*Flow rate in US GPM @40 psi Pressure

CD Series Flat Spray Nozzles

45° SPRAY ANGLE		40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	D
CD13.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	10	8	24
CD13.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 12 gms. Approx		
CD23.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CD23.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CD23.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CD23.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CD23.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CD23.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CD23.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CD23.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CD23.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CD23.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			
CD23.800	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89			
CD33.100	11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6			
60° SPRAY ANGLE												
CD14.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	10	8	24
CD14.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 11 gms. Approx		
CD24.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CD24.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CD24.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CD24.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CD24.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CD24.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CD24.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CD24.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CD24.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CD24.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			
CD24.800	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89			
CD34.100	11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6			
90° SPRAY ANGLE												
CD16.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	10	8	24
CD16.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 8.5 gms. Approx		
CD26.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CD26.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CD26.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CD26.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CD26.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CD26.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CD26.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CD26.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CD26.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CD26.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			
CD26.800	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89			
CD36.100	11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6			
120° SPRAY ANGLE												
CD18.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	10	8	24
CD18.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 8.5 gms. Approx		
CD28.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CD28.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CD28.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CD28.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CD28.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CD28.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CD28.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CD28.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CD28.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CD28.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			
CD28.800	11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89			
CD38.100	11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6			

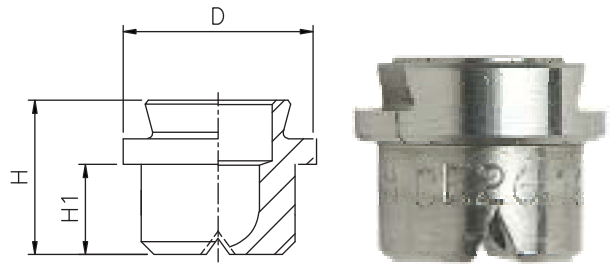
CE Series Flat Spray Nozzles - Dove Tail Type

CE

Very uniform, parabolic distribution of liquid. Rectangular distribution pattern on request. Headers, equipped with these nozzles, show a highly uniform total distribution installation heights and centers.

Application :

Cleaning plants, spray headers, cooling pipes, connection to pipe by means of screwed nut and nipple. The ideal nozzle position is always secured with the aid of the dove- tail fixing. The flat is pre-set at 5° to the tube axis.



Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE			
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3	
15° Spray Angle											SS304/SS316	Brass	
											G/A D IMENSION. MM		
											H	H1	D
		40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	12	7	14.8	
CE11.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	Weight (Metals) = 8.5 gms. Approx			
CE11.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68				
CE11.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24				
CE11.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35				
CE11.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91				
CE11.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47				
CE11.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59				
CE11.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83				
CE11.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94				
CE11.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CE11.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CE11.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CE21.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36				
CE21.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95				
CE21.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78				

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE			
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3	
30° Spray Angle											SS304/SS316	Brass	
											G/A D IMENSION. MM		
											H	H1	D
		40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	12	7	14.8	
CE12.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	Weight (Metals) = 8.5 gms. Approx			
CE12.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68				
CE12.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24				
CE12.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35				
CE12.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91				
CE12.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47				
CE12.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59				
CE12.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83				
CE12.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94				
CE12.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CE12.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CE12.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CE22.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36				
CE22.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95				
CE22.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78				

*Flow rate in US GPM @40 psi Pressure

CE Series Flat Spray Nozzles - Dove Tail Type

CE

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
45° Spray Angle	40°psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/ SS316	Brass	
		H	H1	D	G/A D IMENSION. MM							
			0.25	0.35	0.50	0.61	0.79	0.94	1.12	12	7	14.8
CE13.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	Weight (Metals) = 8.5 gms. Approx		
CE13.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68			
CE13.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CE13.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CE13.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CE13.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CE13.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CE13.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CE13.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CE13.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CE13.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CE13.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CE23.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CE23.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CE23.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
60° Spray Angle	40°psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/ SS316	Brass	
		H	H1	D	G/A D IMENSION. MM							
			0.25	0.35	0.50	0.61	0.79	0.94	1.12	12	7	14.8
CE14.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	Weight (Metals) = 8.5 gms. Approx		
CE14.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68			
CE14.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CE14.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CE14.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CE14.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CE14.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CE14.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CE14.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CE14.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CE14.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CE14.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CE24.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CE24.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CE24.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			

*Flow rate in US GPM @40 psi Pressure

CE Series Flat Spray Nozzles - Dove Tail Type

CE

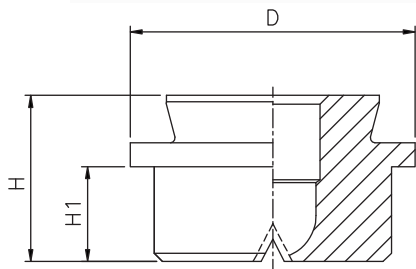
Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
90° Spray Angle	40°psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	D
										SS304/ SS316	Brass	
										G/A D IMENSION. MM		
										12	7	14.8
CE16.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	Weight (Metals) = 8.5 gms. Approx		
CE16.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68			
CE16.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CE16.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CE16.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CE16.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CE16.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CE16.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CE16.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CE16.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CE16.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CE16.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CE26.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CE26.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CE26.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
120° Spray Angle	40°psi		0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	D
										SS304/ SS316	Brass	
										G/A D IMENSION. MM		
										12	7	14.8
CE18.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	Weight (Metals) = 8.5 gms. Approx		
CE18.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68			
CE18.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CE18.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CE18.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CE18.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CE18.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CE18.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CE18.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CE18.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CE18.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CE18.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CE28.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CE28.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CE28.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			

*Flow rate in US GPM @40 psi Pressure

CF Series Flat Spray Nozzles - Dove Tail Type

CF



Uniform, parabolic distribution of liquid Headers, equipped with these nozzles, show a highly uniform total distribution of liquids, even at different installation heights and centers.

Application:

Cleaning plants, spray headers, cooling pipes, roll cooling, cooling of rolled products.

Note :

Connection to pipe by means of screwed nut and nipple. Nozzle position fixed by self-setting dove-tail. Flat preset at 15° to pipe axis.



Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Pressure [bar]								M1/M2	M3	
15° Spray Angle	Flow capacity in GPM	Pressure [bar]								SS304/SS316	Brass	
		40°psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0		G/A D IMENSION. MM	
										H	H1	D
CF11.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	14	8	24
CF11.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 35.0 gms. Approx		
CF21.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CF21.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CF21.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CF21.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CF21.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CF21.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CF21.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CF21.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CF21.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CF21.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			
30° SPRAY ANGLE												
CF12.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	14	8	24
CF12.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	35.0 gms. Approx		
CF22.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CF22.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CF22.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CF22.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CF22.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CF22.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CF22.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CF22.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CF22.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CF22.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			

*Flow rate in US GPM @40 psi Pressure

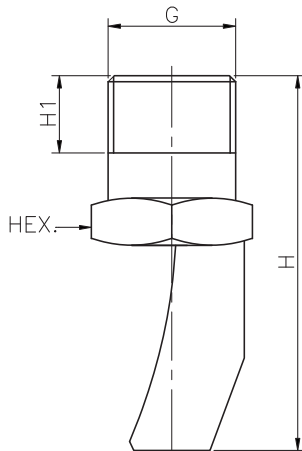
CF Series Flat Spray Nozzles - Dove Tail Type

CF

45° SPRAY ANGLE		40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	D
CF13.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	14	8	24
CF13.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 35.0 gms. Approx		
CF23.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CF23.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CF23.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CF23.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CF23.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CF23.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CF23.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CF23.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CF23.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CF23.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			
60° SPRAY ANGLE												
CF14.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	14	8	24
CF14.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 35.0 gms. Approx		
CF24.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CF24.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CF24.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CF24.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CF24.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CF24.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CF24.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CF24.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CF24.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CF24.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			
90° SPRAY ANGLE												
CF16.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	14	8	24
CF16.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 35.0 gms. Approx		
CF26.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CF26.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CF26.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CF26.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CF26.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CF26.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CF26.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CF26.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CF26.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CF26.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			
120° SPRAY ANGLE												
CF18.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	14	8	24
CF18.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89	Weight (Metals) = 35.0 gms. Approx		
CF28.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CF28.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			
CF28.160	4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CF28.200	5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CF28.225	5.8	6.90	11.25	15.91	22.50	27.56	35.58	42.09	50.31			
CF28.250	6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CF28.320	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55			
CF28.400	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CF28.520	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CF28.650	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34			

CG Series High Impact Flat Spray Nozzles

CG



CG Flat nozzles work on the deflection principal conveying a water vein onto a deflection surface designed to produce a narrow jet with flat spray pattern, high impact value and medium size droplets. CG style nozzles shown in this page are available with a threaded connection and, for the capacity sizes shown in the table with a quick coupling connection for assembly onto the matching quick connection nipple.

How to compose the nozzle code :

The nozzle shown on this page can be supplied with same capacity and a different connection thread, the size is indicated by the second digit in the nozzle code.

Application :

Cleaning, washing decreasing and phosphating processing Powerful jet narrowly defined spray pattern. Non-clogging.

MODEL NO. A	CONNECTION END				ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE		
	YB	YC	YD	YE		Flow Capacity in GPM	Pressure [bar]							M1/M2	M3	P1/P2
15° SPRAY ANGLE η 10°	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT			40°psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1
CG11.350	YB				2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	YB		
CG11.650						1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	65	10	17
CG21.100		YC			3.9	3.07	5.00	7.07	10.0	12.25	15.81	18.71	22.36	Weight (Metals) = 55.0 gms. Approx		
CG21.125		YC			4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	YC		
CG21.160		YC			4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	75	10	17
CG21.200			YD		5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72	Weight (Metals) = 61.0 gms. Approx		
CG21.250			YD		6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	YD		
CG21.320			YD	YE	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55	80	13.2	22
CG21.400				YE	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44	Weight (Metals) = 143.0 gms. Approx		
CG21.520				YE	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	YE	Weight (Metals) = 136.0 gms. Approx	
CG21.650				YE	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	102	14.5	27

MODEL NO. A	CONNECTION END				ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE		
	YB	YC	YD	YE		Flow Capacity in GPM	Pressure [bar]							M1/M2	M3	P1/P2
30° SPRAY ANGLE η 20°	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT			40°psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1
CG12.350	YB				2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	YB		
CG12.650	YB				3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	45	10	17
CG22.100		YC			3.9	3.07	5.00	7.07	10.0	12.25	15.81	18.71	22.36	Weight (Metals) = 55.0 gms. Approx		
CG22.125		YC			4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	YC		
CG22.160		YC			4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	75	10	17
CG22.200			YD		5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72	Weight (Metals) = 61.0 gms. Approx		
CG22.250			YD		6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	YD		
CG22.320			YD	YE	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55	80	13.2	22
CG22.400				YE	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44	Weight (Metals) = 143.0 gms. Approx		
CG22.520				YE	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	YE	Weight (Metals) = 136.0 gms. Approx	
CG22.650				YE	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	102	14.5	27

*Flow rate in US GPM @40 psi Pressure

CG Series High Impact Flat Spray Nozzles

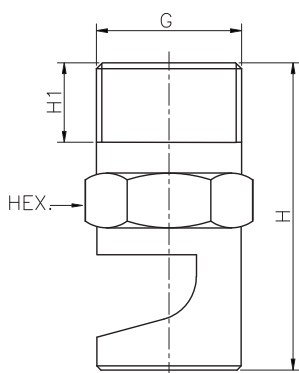
MODEL NO. 	CONNECTION END				ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE		
	YB	YC	YD	YE		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3
45° SPRAY ANGLE η 25°	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT			40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass
														G/A D IMENSION. MM		
														H	H1	HEX
CG13.350	YB				2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	YB		
CG13.650	YB				3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	42	10	17
CG23.100		YC			3.9	3.07	5.00	7.07	10.0	12.25	15.81	18.71	22.36			
CG23.125		YC			4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	YC		
CG23.160		YC			4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	50	10	17
CG23.200			YD		5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CG23.250			YD		6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	YD		
CG23.320			YD	YE	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55	60	13.2	22
CG23.400				YE	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44			
CG23.520				YE	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	YE	Weight (Metals) = 136.0 gms. Approx	
CG23.650				YE	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	70	14.5	27

MODEL NO. 	CONNECTION END				ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE		
	YB	YC	YD	YE		Flow Capacity in GPM	Pressure [bar]								M1/M2	M3
60° SPRAY ANGLE η 40°	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT			40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass
														G/A D IMENSION. MM		
														H	H1	HEX
CG14.350	YB				2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	YB		
CG14.650	YB				3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53	42	10	17
CG24.100		YC			3.9	3.07	5.00	7.07	10.0	12.25	15.81	18.71	22.36			
CG24.125		YC			4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	YC		
CG24.160		YC			4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	50	10	17
CG24.200			YD		5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CG24.250			YD		6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90	YD		
CG24.320			YD	YE	6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55	60	13.2	22
CG24.400				YE	7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44	YE		
CG24.520				YE	8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	70	Weight (Metals) = 136.0 gms. Approx	
CG24.650				YE	9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34		14.5	27

*Flow rate in US GPM @40 psi Pressure

CH Series Flood Spray Nozzles - Flat Type

CH



CH series flat nozzles work on the deflection principal conveying a water vein onto a machined deflection surface and produce a jet with a wide angle flat spray pattern medium impact value and medium size droplets.

Wide angle flat with sharply defined spray pattern. It is available with a threaded connection for the sizes form 1/8" to 1". These type of nozzles assure a wide coverage and an even distribution.

Characteristic : Flat nozzle work on the impact principle, with high efficiency and low plugging risks.

Design : One Piece construction, non clogging type accurately machined to provide very high impact

Application : Gravel washing, rinsing control of foam etc.

MODEL NO. A	CONNECTION END						ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE			
	YA	YB	YC	YD	YE	YF		Flow Capacity in GPM	Pressure [bar]								SS304/SS316	Brass	P1/P2
	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT			0.5	1.0	2.0	3.0	5.0	7.0	10.0	H	H1	HEX	
90° SPRAY ANGLE 50°								40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0				
CH16.100	YA						1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	YA			
CH16.150	YA						1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35	22	6.5	11	
CH16.175	YA						1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91	Weight (Metals) = 21.0 gms. Approx			
CH16.200	YA						1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47				
CH16.250	YA	YB					1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59	YB			
CH16.350	YA	YB					2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	30	10	14	
CH16.400	YA	YB					2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94	Weight (Metals) = 51.0 gms. Approx			
CH16.475	YA	YB					2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62				
CH16.650	YA	YB					3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53				
CH16.800	YA	YB					3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89				
CH26.100	YA	YB	YC				3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36	YC			
CH26.125		YB	YC				4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	36	10	17	
CH26.160		YB	YC				4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78	Weight (Metals) = 140.0 gms. Approx			
CH26.200			YC	YD			5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72				
CH26.250				YD			6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90				
CH26.320				YD			6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55	YD			
CH26.400				YD			7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44	50	13.2	22	
CH26.520					YE		8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28	Weight (Metals) = 185.0 gms. Approx			
CH26.650					YE		9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	YE			
CH26.800					YE		11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89	56	14.5	27	
CH36.100					YE		11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6	Weight (Metals) = 235.0 gms. Approx			
CH36.160					YF		14.3	49.05	80.00	113.14	160.0	195.96	252.98	299.33	357.77	YF			
CH36.200					YF		16.0	61.31	100.0	141.42	200.0	244.95	316.23	374.17	447.21	94	16.8	36	

*Flow rate in US GPM @40 psi Pressure

CH Series Flood Spray Nozzles - Flat Type

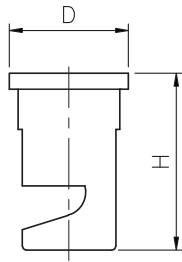
CH

MODEL NO. ✕	CONNECTION END						ORIFICE SIZE (mm)	FLOW CAPACITY IN LPM AT DIFFERENT PRESSURE VALUES								MATERIAL CODE		
	YA	YB	YC	YD	YE	YF		Flow Capacity in GPM	Pressure [bar]							M1/M2	M3	P1/P2
	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT	0.5			1.0	2.0	3.0	5.0	7.0	10.0	SS304/SS316	Brass	PVC/PP	
140° SPRAY ANGLE η 75°								40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	G/A D IMENSION. MM		
																H	HEX	
CH19.100	YA						1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	YA		
CH19.150	YA						1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35	25	11	
CH19.175	YA						1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CH19.200	YA						1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CH19.250	YA	YB					1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59	YB		
CH19.350	YA	YB					2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83	27	14	
CH19.400	YA	YB					2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CH19.475	YA	YB					2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CH19.650	YA	YB					3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CH19.800	YA	YB					3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CH29.100	YA	YB	YC				3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36	YC		
CH29.125		YB	YC				4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95	33	17	
CH29.160		YB	YC				4.9	4.90	8.00	11.31	16.00	19.60	25.30	29.93	35.78			
CH29.200			YC	YD			5.5	6.13	10.00	14.14	20.00	24.49	31.62	37.42	44.72			
CH29.250				YD			6.1	7.66	12.50	17.68	25.00	30.62	39.53	46.77	55.90			
CH29.320				YD			6.4	9.81	16.00	22.63	32.00	39.19	50.60	59.87	71.55	YD		
CH29.400				YD			7.8	12.26	20.00	28.28	40.00	48.99	63.25	74.83	89.44	50	22	
CH29.520					YE		8.9	15.94	26.00	36.77	52.00	63.69	82.22	97.28	116.28			
CH29.650					YE		9.9	19.92	32.50	45.96	65.00	79.61	102.77	121.60	145.34	YE		
CH29.800					YE		11.0	24.52	40.00	56.57	80.00	97.98	126.49	149.67	178.89	56	27	
CH39.100					YE		11.3	30.65	50.00	70.71	100.0	122.4	158.1	187.0	223.6			
CH39.160						YF	14.3	49.05	80.00	113.14	160.0	195.96	252.98	299.33	357.77	YF		
CH39.200						YF	16.0	61.31	100.0	141.42	200.0	244.95	316.23	374.17	447.21	94	36	
CH39.250						YF	17.8	76.63	125.00	176.00	250.0	306.19	395.28	467.71	559.02			

*Flow rate in US GPM @40 psi Pressure



CI Series Flood Spray Nozzles - Flat Tip Type



Wide angle jet with sharply defined spray pattern

Application :

Control of foam in effluent tanks, sewage treatment plants, coal treatment plants, coal washing cooling washing and rinsing operations where high jet impact flow is required.

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
90° Spray Angle											SS304/SS316	Brass
		40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	G/A D IMENSION. MM		
										H	D	
CI16.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12	22	14.8	
CI16.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	Weight (Metals) = 32.0 gms. Approx		
CI16.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24			
CI16.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CI16.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CI16.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CI16.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CI16.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CI16.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CI16.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CI16.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CI16.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CI26.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			

Model No.	Orifice Size (mm)	Flow Capacity in Lpm at different Pressure Values								MATERIAL CODE		
		Flow capacity in GPM	Pressure [bar]								M1/M2	M3
140° Spray Angle											SS304/SS316	Brass
		40*psi	0.5	1.0	2.0	3.0	5.0	7.0	10.0	G/A D IMENSION. MM		
										H	D	
CI19.050	0.8	0.15	0.25	0.35	0.50	0.61	0.79	0.94	1.12			
CI19.075	1.0	0.23	0.37	0.53	0.75	0.92	1.19	1.40	1.68	22	14.8	
CI19.100	1.2	0.31	0.50	0.71	1.00	1.22	1.58	1.87	2.24	Weight (Metals) = 32.0 gms. Approx		
CI19.150	1.5	0.46	0.75	1.06	1.50	1.84	2.37	2.81	3.35			
CI19.175	1.6	0.54	0.87	1.24	1.75	2.14	2.77	3.27	3.91			
CI19.200	1.7	0.61	1.00	1.41	2.00	2.45	3.16	3.74	4.47			
CI19.250	1.9	0.77	1.25	1.77	2.50	3.06	3.95	4.68	5.59			
CI19.350	2.3	1.07	1.75	2.47	3.50	4.29	5.53	6.55	7.83			
CI19.400	2.4	1.23	2.00	2.83	4.00	4.90	6.32	7.48	8.94			
CI19.475	2.7	1.46	2.37	3.36	4.75	5.82	7.51	8.89	10.62			
CI19.650	3.1	1.99	3.25	4.60	6.50	7.96	10.28	12.16	14.53			
CI19.800	3.5	2.45	4.00	5.66	8.00	9.80	12.65	14.97	17.89			
CI29.100	3.9	3.07	5.00	7.07	10.00	12.25	15.81	18.71	22.36			
CI29.125	4.3	3.83	6.25	8.84	12.50	15.31	19.76	23.39	27.95			

*Flow rate in US GPM @40 psi Pressure

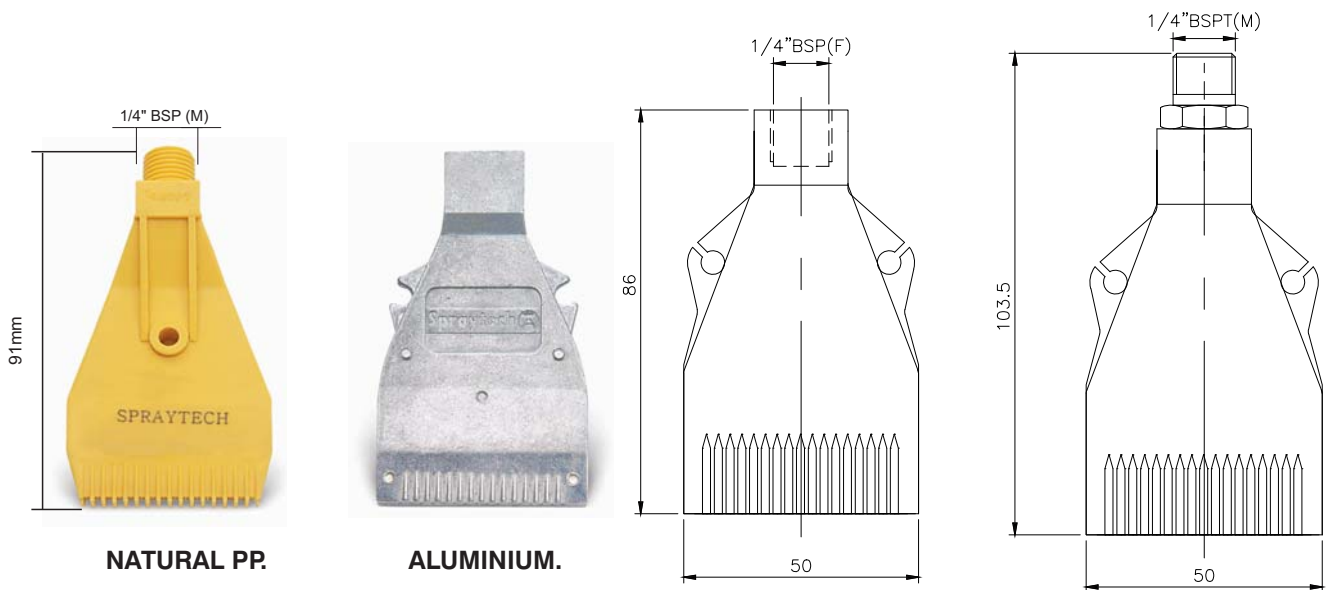
Air Knife Nozzles



CJ Series Flat Spray Nozzles For Air & Saturated Steam



Multi channel flat air spray nozzle have been specially designed for high impact of compressed air with attenuate noise, to obtain an intensive, precise blowing power to minimize cost by reducing air consumption.



CJ Series Flat Spray Nozzles For Air & Saturated Steam

CJ

SPRAY CHARACTERISTICS

Produces a flat pattern of high impact compressed air.

FEATURES

- With its 16 orifices a volume of compressed air is converted into a high speed stream with uniform distribution and good spray pattern.
- Low noise levels which are under OSHA standard.
- Low air consumption.
- Can be mounted side by side to produce an effective air curtain.

PERFORMANCE DATA

Flow rate in NM³/hr at Pressure (for 0.8mm Orifice)

Pressure (Bar)	1	2	3	4	5
Flow Rate (NM ³ /hr)	12	16	22	28	34.0

Sound Level (dB) at Pressure (for 0.8mm Orifice)

Pressure (Bar)	1	2	3	4	5
Sound Level (dB)	62	69	75	80	84

TYPICAL APPLICATIONS

- Cooling
- Warming
- Drying
- Cleaning, Wipping
- Moving of Parts

MATERIAL

- Natural PP
- Aluminum

ORDER EXAMPLE

CJ.21.2.XB/YB.M6.1.0

CJ.16.2.XB/YB.P2.0.8

Flow rate in NM³/hr at Pressure (for 1.0mm Orifice)

Pressure (Bar)	1	2	3	4	5
Flow Rate (NM ³ /hr)	14	21	26	35	40

Sound Level (dB) at Pressure (for 1.0mm Orifice)

Pressure (Bar)	1	2	3	4	5
Sound Level (dB)	75	82	88	93	97

CK Series Flat Spray Nozzles For Air & Saturated Steam



Features :

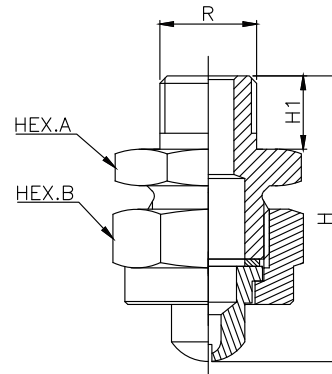
- Produce flat spray pattern in air or steam.
- Effective spray angle does not hold long since air or steam disperses very quickly.

Standard Operating Air Pressure :

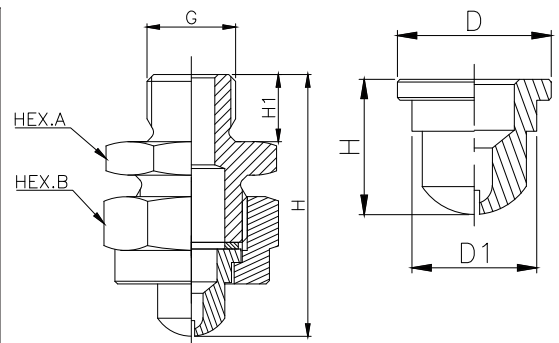
- 3 Bar

Applications :

- **Compressed air :**
Cleaning, dust suppression, drying air curtain, etc.
- **Steam :**
Humidification, temperature control, moisture control, etc.



CK - series (3-piece structure)	
Structure	<ul style="list-style-type: none"> • 3-piece structure of all metal • Comprises three parts : Spray tip, cap and adaptor, worn-out spray tip can be replaced separately. • Cap and adaptor standard flat spray nozzle for liquid.
Material	<ul style="list-style-type: none"> • B (Brass) or S.S.304 (Stainless Steel 304) • Optional material : S316



COMPLETE NOZZLE :

Series	End Connection Size of Complete Nozzle	Dimensions(mm)				Weight (g)	
		H	H1	Hex A	Hex B	Brass	S.S.304
CK	1/4 ,3/8 G(M)	39	10	22	22	47	44
	1/4 ,3/8 R(M)	41.5	10	22	22	78	73

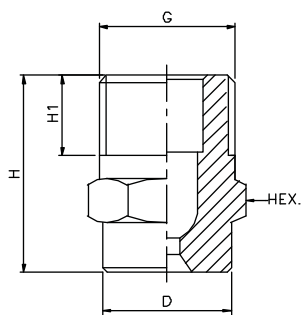
SPRAY TIP :

Series	Spray Tip	Dimensions (mm)			Weight (g)	
		H	D	D1	Brass	S.S.304
CK	1/4	13	14.8	12	5.0	4.8
	3/8	13	14.8	12	8.2	7.8

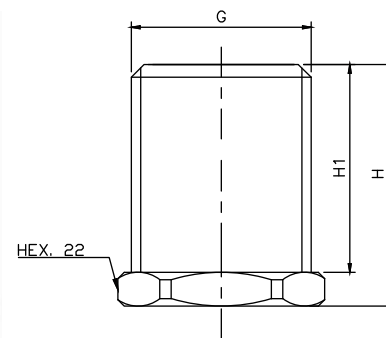
Note : Appearance and dimensions may be slightly changed depending on materials and nozzle codes.

KS Series Steam Spray Nozzles

KS



KS Series : 3/8" & 1/2"



KS1 Series : 3/4" & 1/2"

'Spraytech' make KS series steam spray nozzles offers various capacities of mass flow rate for saturated and superheated steam which is widely used for applications such as steam purging, heating, humidification, sterilization etc.

KS series are available with inbuilt NRV design which allows the nozzle to work in immersible conditions. It opens when pressure is applied and locks itself when there is no pressure.

Available in two body designs, Standard (KS) and Full Threading (KS1)

Note: Designs are available with and without NRV features, please mention while ordering.



		MASS FLOW RATE OF SAT. STREAM (kg/hr)					G/A DIMENSION MM			
		Pressure [bar]								
MODEL NO	END CONNECTION	1	2	3	4	5	H	H1	D	HEX
KS.03	3/8"	8.3	11.4	15.48	19.80	23.04	25	10	16	17
KS.04	3/8"	10.6	15.3	21.60	27.36	32.40				
KS.05	3/8"	16.4	21.6	30.96	39.60	46.44				
KS.08	KS1.08	31.8	47.71	63.61	79.51	95.42	32	13.2	21	22
KS.13	KS1.13	83.9	125.9	167.7	209.6	251.5				
	KS1.16	127.2	190.8	256.4	318.0	381.6	42	15	32	27
	KS1.18	161.0	241.5	322.0	402.5	483.0				

