

# NCSQ

## Plastic Line/Square Pattern



WHIRL

### DESIGN FEATURES

- Complete line of square pattern nozzles made of plastic and some bar stock metal alloy materials
- Uniform square coverage
- Flanged connections available in all larger models
- Male or female connections
- For metal alloy nozzles refer to SCSQ Series (pp. 44, 45)

### SPRAY CHARACTERISTICS

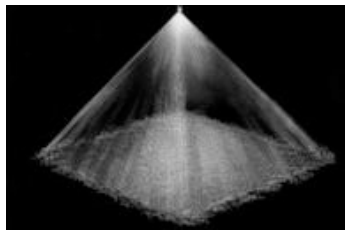
**Spray pattern:** Square Full Cone  
**Spray angles:** 60°, 90°, and 120° standard across the corners  
**Flow rates:** 7.50 to 8180 l/min (Higher flow rates available)



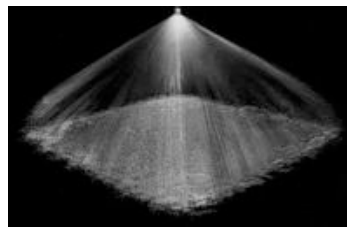
120° PVC



Full Cone 60° (NSQ)



Full Cone 90° (MSQ)



Full Cone 120° (WSQ)

### NCSQ Flow Rates and Dimensions

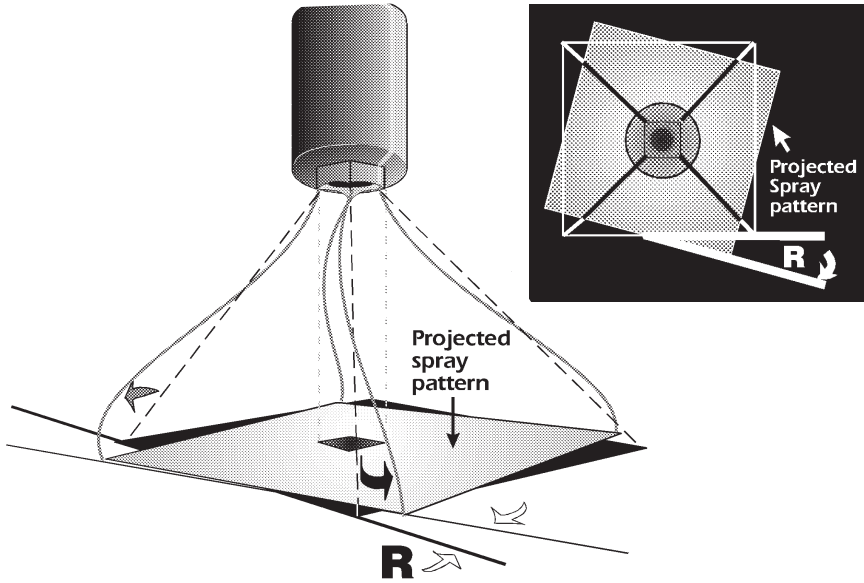
Squared Full Cone, Narrow 60° (N), Medium 90° (M) and Wide 120° (W) Spray Angles, 3/4" to 6" Pipe Sizes, BSP and NPT

Male or Female Pipe Size	Nozzle Number	K Factor	LITERS PER MINUTE @ BAR								Approx. Orifice Dia. (mm)	Approx. Free Pass. Dia. (mm)	Dimensions (mm)				Wt. Male PVC (g)
			0.2 bar	0.3 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar	7 bar			A	B	C	D	
3/4	NC 0703SQ	16.0	7.50	9.08	13.5	16.0	22.1	26.8	34.1	39.9	6.35	4.06	44.5	28.4	53.8	38.1	28
	NC 0704SQ	21.3	10.0	12.1	18.0	21.3	29.5	35.7	45.4	53.2	6.35	4.83					
	NC 0707SQ	37.3	17.5	21.2	31.6	37.3	51.7	62.5	79.5	93.1	8.38	5.84					
1	NC 1009SQ	48.0	22.5	27.2	40.6	48.0	66.4	80.4	102	120	9.65	6.35	55.6	34.9	63.5	44.5	35
	NC 1012SQ	64.0	30.0	36.3	54.1	64.0	88.6	107	136	160	11.4	7.62					
1 1/4	NC 1214SQ	74.6	35.0	42.4	63.1	74.6	103	125	159	186	11.9	8.6	82.6	44.5	82.6	50.8	106
	NC 1217SQ	90.6	42.5	51.5	76.6	90.6	126	152	193	226	13.5	9.7					
1 1/2	NC 1516SQ	85.3	40.0	48.4	72.1	85.3	118	143	182	213	12.7	9.7	108	50.8	108	63.5	191
	NC 1520SQ	107	50.0	60.5	90.1	107	148	179	227	266	14.2	10.4					
	NC 1524SQ	128	60.0	72.6	108	128	177	214	273	319	15.5	11.2					
2	NC 2017SQ	90.6	42.5	51.5	76.6	90.6	126	152	193	226	13.5	9.65	148	63.5	148	76.2	361
	NC 2020SQ	107	50.0	60.5	90.1	107	148	179	227	266	14.2	10.4					
	NC 2033SQ	176	82.6	99.9	149	176	244	295	375	439	18.3	14.0					
	NC 2040SQ	213	100	121	180	213	295	357	454	532	20.3	16.0					
	NC 2045SQ	240	113	136	203	240	332	402	511	599	21.3	16.0					

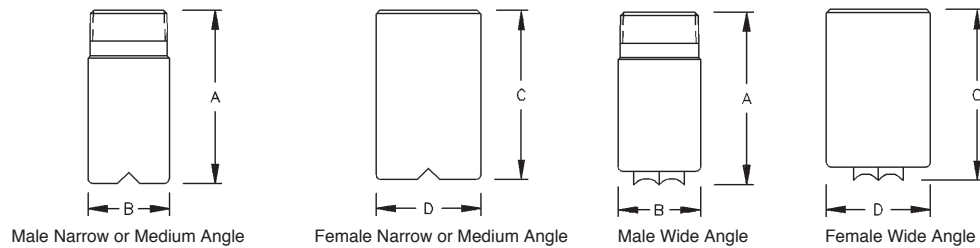
$$\text{Flow Rate (l/min)} = K (\text{bar})^{0.47}$$

**Standard Materials: PVC, Polypropylene and PTFE.** See chart on page 21 for complete list.

TO ORDER: specify pipe size, connection type, nozzle number, spray angle, and material.



**Special Note:** The square spray pattern generated by the NCSQ nozzle will not line up corner to corner with the "points" of the nozzle nose. The square pattern will be rotated 10° - 15° counter clockwise when viewed from above. The figures above illustrate the angle of rotation of the pattern.  $R = 10^\circ - 15^\circ$ .



**NCSQ Flow Rates and Dimensions**

Squared Full Cone, Narrow 60° (N), Medium 90° (M) and Wide 120° (W) Spray Angles, 3/4" to 6" Pipe Sizes, BSP or NPT

Male or Female Pipe Size	Nozzle Number	K Factor	LITERS PER MINUTE @ BAR							Approx. Orifice Dia. (mm)	Approx. Free Pass. Dia. (mm)	Dimensions (mm)				Wt. Male PVC (g)	
			0.2 bar	0.3 bar	0.7 bar	1 bar	2 bar	3 bar	5 bar			7 bar	A	B	C		D
2	NC 2050SQ	266	125	151	225	266	369	447	568	665	22.6	15.2	148	63.5	148	76.2	361
	NC 2060SQ	320	150	182	270	320	443	536	681	798	23.9	16.0					
	NC 2065SQ	346	163	197	293	346	480	581	738	865	25.4	17.0					
	NC 2070SQ	373	175	212	316	373	517	625	795	931	26.7	17.3					
2 1/2	NC 2570SQ	373	175	212	316	373	517	625	795	931	26.7	17.3	149	76.2	149	88.9	546
	NC 2580SQ	426	200	242	361	426	591	715	909	1060	28.7	17.5					
	NC 2590SQ	480	225	272	406	480	664	804	1020	1200	30.2	19.8					
3	NC 3058SQ	309	145	176	261	309	428	518	659	772	24.1	16.0	149	88.9	148	101.6	645
	NC 3084SQ	448	210	254	379	448	620	750	954	1120	29.7	22.4					
	NC 3096SQ	512	240	291	433	512	709	858	1090	1280	28.4	24.1					
	NC 30117SQ	624	293	354	527	624	864	1050	1330	1560	34.5	24.6					
4	NC 40125SQ	666	313	378	563	666	923	1120	1420	1660	35.3	24.9	149	114	184	127	1320
	NC 40130SQ	693	325	393	586	693	960	1160	1480	1730	36.1	25.4					
	NC 40180SQ	959	450	545	811	959	1330	1610	2040	2390	42.9	33.3					
	NC 40250SQ	1330	625	757	1130	1330	1850	2230	2840	3330	50.3	40.1					
6	NC 60350SQ	1860	876	1060	1580	1860	2580	3130	3980	4660	60.5	43.2	241	168	279	182	3680
	NC 60480SQ	2560	1200	1450	2160	2560	3540	4290	5450	6390	69.9	44.5					
	NC 60615SQ	3280	1540	1860	2770	3280	4540	5490	6980	8180	79.0	50.0					

Flow Rate ( $l/min$ ) =  $K(\text{bar})^{0.47}$

Standard Materials: PVC, Polypropylene and PTFE. See chart on page 21 for complete list.



CALL 413-772-2166  
Call for the name of your nearest BETE representative.