

# NCJ

## Hollow Cone/Narrow Angle Injector

### DESIGN FEATURES

- Narrow spray angles
- High velocity
- Male and female connections
- Flanged connections available
- Available in plastic and metal alloys

### SPRAY CHARACTERISTICS

- Spray is coarse and extremely hard-driving

**Spray pattern:** Hollow Cone

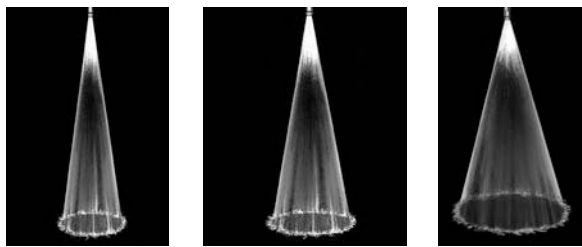
**Spray angles:** 15°, 20° and 30°

**Flow rates:** 23.1 to 4660 l/min  
(Special flow rates available)



Metal

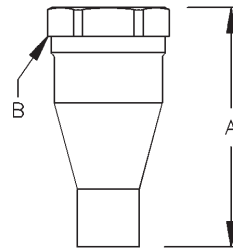
WHIRL



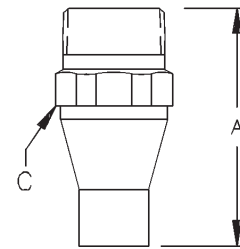
Hollow Cone 15°

Hollow Cone 20°

Hollow Cone 30°



Female



Male

### NCJ Flow Rates and Dimensions

Hollow Cone, 15°, 20° and 30° 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)	Dimensions for Metal Only (mm)			Wt. (kg)	
			0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	5 bar	7 bar		A	B	C	PVC	Metal
3/4	NC 0706J	32.0	23.1	27.0	32.0	38.7	44.3	53.6	68.1	79.8	7.52	82.6	34.9	28.4	0.04	0.34
1	NC 1012J	64.0	46.2	54.1	64.0	77.4	88.6	107	136	160	10.3	88.9	44.5	35.1	0.06	0.45
1 1/4	NC 1218J	95.9	69.3	81.1	95.9	116	133	161	204	239	12.3	102	50.8	44.5	0.11	0.57
1 1/2	NC 1526J	139	100	117	139	168	192	232	295	346	15.1	127	63.5	50.8	0.20	1.02
2	NC 2048J	256	185	216	256	310	354	429	545	638	20.2	152	76.2	63.5	0.37	1.13
2 1/2	NC 2572J	384	277	325	384	464	532	643	818	958	24.6	178	82.6	76.2	0.62	2.61
3	NC 30105J	560	404	473	560	677	775	938	1190	1400	29.5	203	97.5	88.9	0.85	2.84
4	NC 40190J	1010	731	856	1010	1230	1400	1700	2160	2530	40.5	254	127	114	2.04	6.80
6	NC 60350J	1860	1380	1580	1860	2260	2580	3130	3980	4660	54.0	343	181	168	2.78	15.9

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

**Standard Materials:** Brass, 316 Stainless Steel, 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.