



Technical Data Sheet

Product: Calyx Jets

Product Code: 20 Series

- NCA's Calyx jets produce a calyx or mushroom style spray effects created by the deflecting of a flow of water at various angles from a circular orifice. Refer to page two to see models available and their performance figures.
- Calyx jets are made of cast bronze and using stainless steel to secure the deflecting cone. The cones have thread protection and vandal resistant lock bolts.

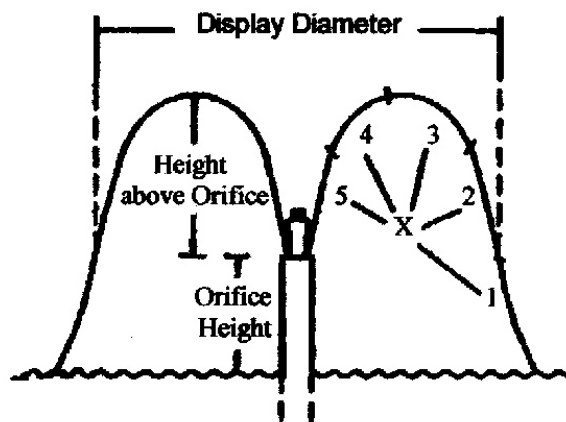


- The construction of the jets with cast in centre rod holder and female pipe connection permits direct mounting to all types of threaded pipe.
- For best performance use undisturbed water supply, always mount jet on pipe risers of a minimum length of 5 x nominal pipe size.
- The jet's orifice height indicates the most common installation height, however this dimension can vary.
- The larger jets with widest cones are ideal for above water level supplies for multilevel cascade pools, as they will prevent backflow, without check valves; while at the same time enhance the overall appearance of the water feature. The flow can be increased by widening the orifice opening.
- Page 2 shows models available and performance figures for different cone angles. When ordering please specify the cone angle required or a 25 degree cone will be supplied. Different spray performance and appearances can be achieved by opening and closing the orifice.
- NCA's calyx jets can be fitted with a centre clear stream jet. With this jet a separate feed is required for the clear stream jet. Performance details of clear stream jets are available on NCA's Technical Data Sheet – 22 & 23 series jets. Models available:



Model	Calyx Jet size	Clear stream jet fitted
20-TG-50	2"	22-YD-12
20-TG-80	3"	22-YF-25
20-TG-100	4"	22-YG-40

- Calyx display diagram



Note – riser pipe supplied by others

- Models and performance:

Jet Model Number	20-TA-40	20-TB-50	20-TD80	20-TE-100	20-TF-150	
Thread Dimensions (bspf)	1 1/2"	2"	3"	4"	6"	
Height of Jet (mm)	203	230	305	356	406	
Height of Jet's Orifice (mm)						
Cone Angle	Performances for X1 - X2 break up of solid water skin					
20 Deg	Spray diameter D (mm)	360	460	920	1530	1830
	Height above orifice (mm)	410	460	610	770	920
	Orifice Opening (mm)	7.7	10.2	12.7	12.7	12.7
	Flow (lpm)	76	156	493	757	1370
	Pressure at Jet (M)	0.92	1.22	1.53	1.83	2.14
25 Deg	Spray diameter D (mm)	410	610	1530	2140	2440
	Height above orifice (mm)	360	410	510	720	820
	Orifice Opening (mm)	7.7	10.2	12.7	10.2	10.2
	Flow (lpm)	76	133	379	644	832
	Pressure at Jet (M)	0.61	0.92	1.22	1.53	1.83
30 Deg	Spray diameter D (mm)	460	770	1680	2290	2540
	Height above orifice (mm)	340	360	460	610	770
	Orifice Opening (mm)	7.7	10.2	12.7	10.2	10.2
	Flow (lpm)	84	152	455	682	871
	Pressure at Jet (M)	0.61	0.92	1.22	1.53	1.83
35 Deg	Spray diameter D (mm)	610	920	1830	2440	2750
	Height above orifice (mm)	310	310	410	510	670
	Orifice Opening (mm)	7.7	10.2	12.7	10.2	10.7
	Flow (lpm)	95	152	493	720	947
	Pressure at Jet (M)	0.61	0.61	1.22	1.22	1.53
40 Deg	Spray diameter D (mm)	690	1070	1980	2750	3050
	Height above orifice (mm)	260	260	360	410	510
	Orifice Opening (mm)	10.2	12.7	12.7	10.2	12.7
	Flow (lpm)	106	190	568	871	1250
	Pressure at Jet (M)	0.61	0.61	0.92	1.22	1.53
45 Deg	Spray diameter D (mm)	770	1220	2440	3050	3360
	Height above orifice (mm)	180	210	310	360	410
	Orifice Opening (mm)	10.2	12.7	12.7	12.7	12.7
	Flow (lpm)	137	228	720	1290	1590
	Pressure at Jet (M)	0.61	0.61	0.92	1.22	1.53