

# BGI Cyclone Selector Chart

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## Flow Rate [L/min] by Cyclone Model and Particle Size Cut [ $\mu\text{m}$ ]

Cyclone Model	Particle Size Cut Point ( $D_{50}$ ) [ $\mu\text{m}$ ]			
	10.0	4.0	2.5	1.0
VSCCA	3.60	10.00	16.67	47.00
SCCA	5.00	11.10	16.67	36.70
SCC 2.229	2.26	5.00	7.53	16.67
SCC 0.732	0.28	0.60	0.91	2.00
SCC 1.197	0.69	1.51	2.27	5.00
SCC 1.829	1.51	3.35	5.00	11.00
SCC 2.354	2.42	5.34	8.00	17.60
SCC 2.654	2.50	6.60	10.00	21.80
SCC 1.062	0.47	1.00	1.50	3.50
GK 2.05	1.19	2.64	4.00	9.00
GK 2.05 SH	0.81	2.13	3.50	8.90
GK 2.69	1.60	4.20	6.80	14.00
BGI 4	1.00	2.20	3.65	8.40
SCC 0.695 <sup>1</sup>	0.20	0.55	0.82	1.80
GK 4.162	0.25	8.50	14.00	37.00

(Cyclone model photo appears on rollover)

Highlighted cells indicate design criteria

The purpose of this chart is to permit an investigator to rapidly select the appropriate Cyclone type/design for the required purpose. It does not replace the Cyclone Calculator<sup>2</sup>, but by focusing upon the four most commonly used particle size cuts, the desired size and flow rate combination can quickly be determined. The publication and public availability of the information contained in this document does not place BGI under any obligation as to the correctness of the information provided nor any consequences resulting from the usage thereof.

<sup>1</sup> 800 nm @ 2.2 L/min

<sup>2</sup> [Click for link to Cyclone Calculator webpage](#)