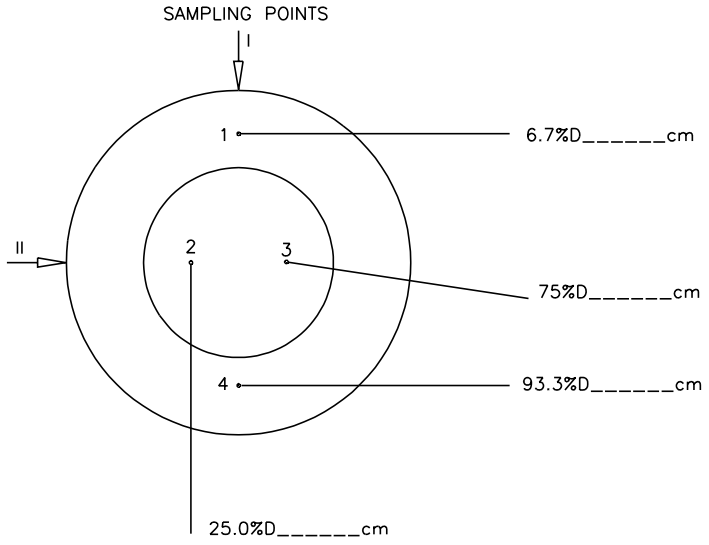
018-039 (1)

STACK SAMPLING RATE WORKSHEET



SAMPLING RATES				
SAMPLING POINT	VELOCITY (ft/m) (V)	NOZZLE DIAMETER (in.)	NOZZLE NUMBER	SAMPLING RATE (L/min)
1				
2				
3				
4				

Calculation of nozzle size and actual sampling rate:

Velocity Required (V) _____= _____ft/m

Approximate Sampling Rate Desired (Q_T) = _____L/min

Required Nozzle Diameter _____= $\sqrt{\frac{6.47\ Q_T\ \text{inches}}{V}}$

Selected Nozzle Size Number _____ and Diameter (D) _____ in.

Actual Sampling Rate = 0.1545 VD^2 ___= _____L/min

NOZZLE IN INCHES VS. NOZZLE NUMBER					
SIZE (D) (in.)	NUMBER	SIZE	NUMBER	SIZE	NUMBER
.125	4				
.150	5	.2813	9		
.1825	6	.3125	10	.375	12
.250	8			.4063	13
				.500	16

REMARKS _____

Figure B-19