

Throat chamber port:  
 $A_{p1}=544.35\text{cm}^2$   
 $L_{pt}=1.83\text{cm}$

$$\frac{S_1}{S_2} = S_3 = S_4 = 847.65\text{cm}^2$$

Throat chamber

$L_{tc}=46.336''$   
 $V_{tc}=80080\text{cm}^3$   
 $A_{tc}=680.44\text{cm}^2$

6.000 [152.4]

$L_{23}=35.426''$  [89.98cm]

48.000 [1219.2]

S3

$L_{34}=12.467''$  [31.67cm]

S4

7.500 [190.5]

0.719 [18.3]

9.343 [237.3]

19.000 [482.6]

