



$$A_2 = 2$$

$$D = 0.12 \quad P_0 = 100 \text{ kPa} \\ T_0 = 300 \text{ K}$$

$$D_0 \frac{A_c}{A} = 2 \xrightarrow{150}$$

	C	X	Y
M	0.306	2.197	0.547
P/P ₀	0.937	0.0939	0.8157
T/T ₀	0.982	0.509	0.9635
P/P*	2.122	0.3093	1.6907
T ₀ /T _{0*}	0.3577	0.7566	0.7566
		P ₀₂ /P ₀₁	0.6296
		P ₀₁ /P ₀	0.5134
P*	44.16	30.37	
P*/P ₀₁	1.7956	0.3217	0.3217

$$\frac{P_y}{P} = \frac{P_1}{P_0} \frac{P_{0y}}{P_{0x}} = 0.8157 \cdot 0.6296 = 0.5134$$

$$P^* = \frac{P^*}{P} \frac{P}{P_0}$$

$$\frac{Q}{C P T_{01}} = \frac{C_p (T_{05} - T_{01})}{C_p T_{01}} = \frac{T_{05}}{T_{01}} - 1 \Rightarrow$$

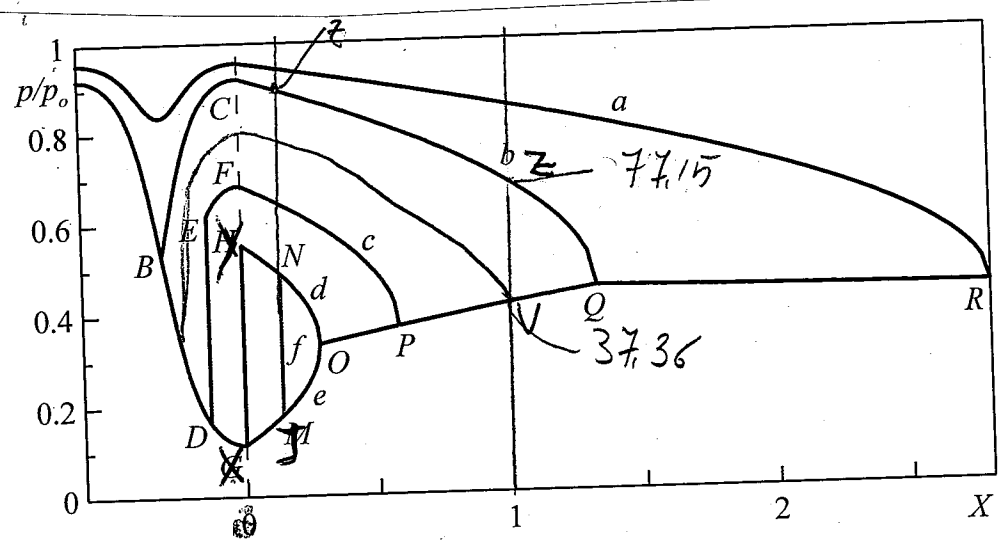
$$\frac{Q^*}{C P T_{01}} = \frac{T_{01}^*}{T_{01}} - 1$$

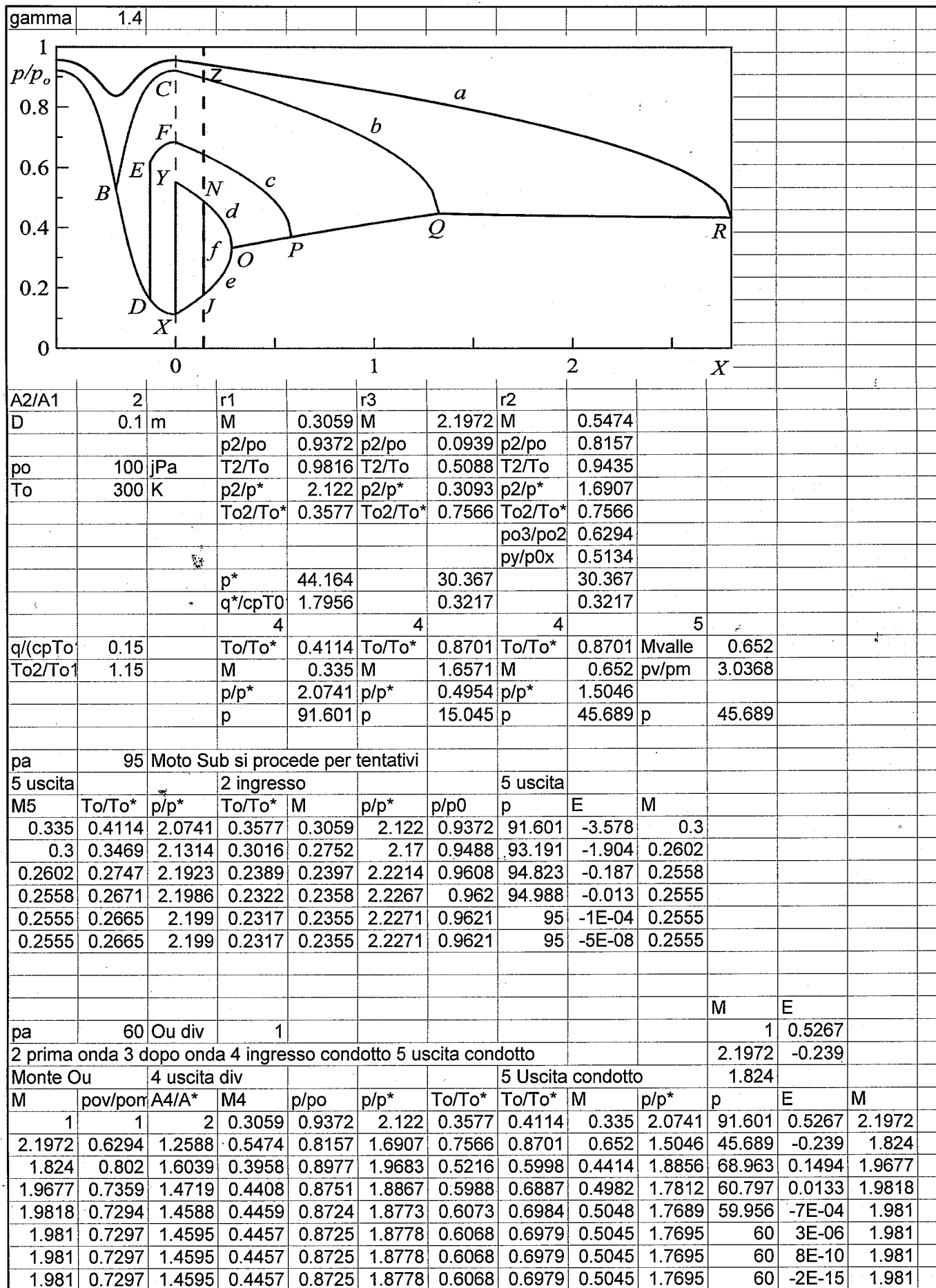
$$P/P_{01} = 0.15 \rightarrow \frac{T_{05}}{T_{02}} = 1.15 \quad \frac{T_{05}}{T_{01}^*} = \frac{T_{05}}{T_{02}} \frac{T_{02}}{T_{01}^*} = 1.15 \cdot 0.3577 = 0.4114 \xrightarrow{RA} M = 0.335$$

	Z	N	S
T ₀₅ /T ₀₁	0.4114	0.870	0.08701
M	0.335	0.652	1.657
P/P*	2.076	1.505	0.4954
P	91.60	45.69	15.05

$$P_5 = \frac{P_5}{P^*} P^* = 2.076 \cdot 44.16 = 91.60 \text{ kPa}$$

$P_0 = 95 \text{ kPa}$ $M_5 = 0.3 \xrightarrow{RA} \frac{T_{05}}{T_{01}^*} \frac{P_{05}}{P^*}$ $\frac{T_{02}}{T_{01}^*} = \frac{T_{02}}{T_{05}} \frac{T_{05}}{T_{01}^*}$ $\xrightarrow{RA} M_2 \xrightarrow{150} \frac{P_2}{P_0}$ $P_5 = \frac{P_5}{P^*} \frac{P^*}{P_2} \frac{P_2}{P_0}$ $E = \frac{P_5 \cdot P_0}{P_0}$





$P_0 = 60$ O.U.DIV



$$M_2 = \frac{E_z M_N - E_N M_z}{E_z - E_N} = 1.824 \xrightarrow{NSM} \frac{P_{03}}{P_2} \rightarrow \frac{A_6}{A_6^*} = \frac{A_4}{A_1} \xrightarrow{ISO} \frac{M_4}{P_4/P_2} \xrightarrow{P_4/P_2} \frac{P_4}{P_4^*} \xrightarrow{T_{04}/T_0^*} \left(\frac{T_{05}}{T_0^*} \right) \xrightarrow{T_{04}/T_0^*} \frac{P_4}{P_4^*} \xrightarrow{P_4/P_2} \frac{M_5}{P_5/P_4^*}$$

$$P_5 = \frac{P_5}{P_4^*} \frac{P_4^*}{P_4} \frac{P_4}{P_0} \frac{P_0}{P_2}$$

$\psi_{CPTOI} = 1$ COME PRIMA

	Z	V
T_{05}/T_0^*	0.7164	1
M_5	0.568	1
P_5/P_4^*	1.747	1
P_5	77.15	

PUNTO V $\frac{T_{04}}{T_0^*} = \frac{T_{04}}{T_{05}} \xrightarrow{P_4/P_2} \frac{M_4}{P_4/P_2} \xrightarrow{ISO} \frac{P_4}{P_4^*} \frac{A_4}{A_4^*}$

$$\frac{P_{03}}{P_2} = \frac{A_2^*}{A_3^*} = \frac{A_1}{A_4} \frac{A_4}{A_4^*} \xrightarrow{NSM} M_2$$

$$P_4^* = \frac{P_4^*}{P_4} \frac{P_4}{P_0} \frac{P_0}{P_2}$$

	T_{04}/T_0^*	M_4	P_4/P_4^*	P_4/P_0	A_4/A_4^*	P_{03}/P_2	M_3	P_4^*
V	0.500	0.3837	1.980	0.9034	1.646	0.8228	1.777	37.36

$P_0 > 77.148$ SUB TENTATIVA

~~$77.15 > P_0$~~ $37.36 < P_0 < 77.148$ COME PRIMA O.U.DIV

$P_0 < 37.36$ Vertigine

