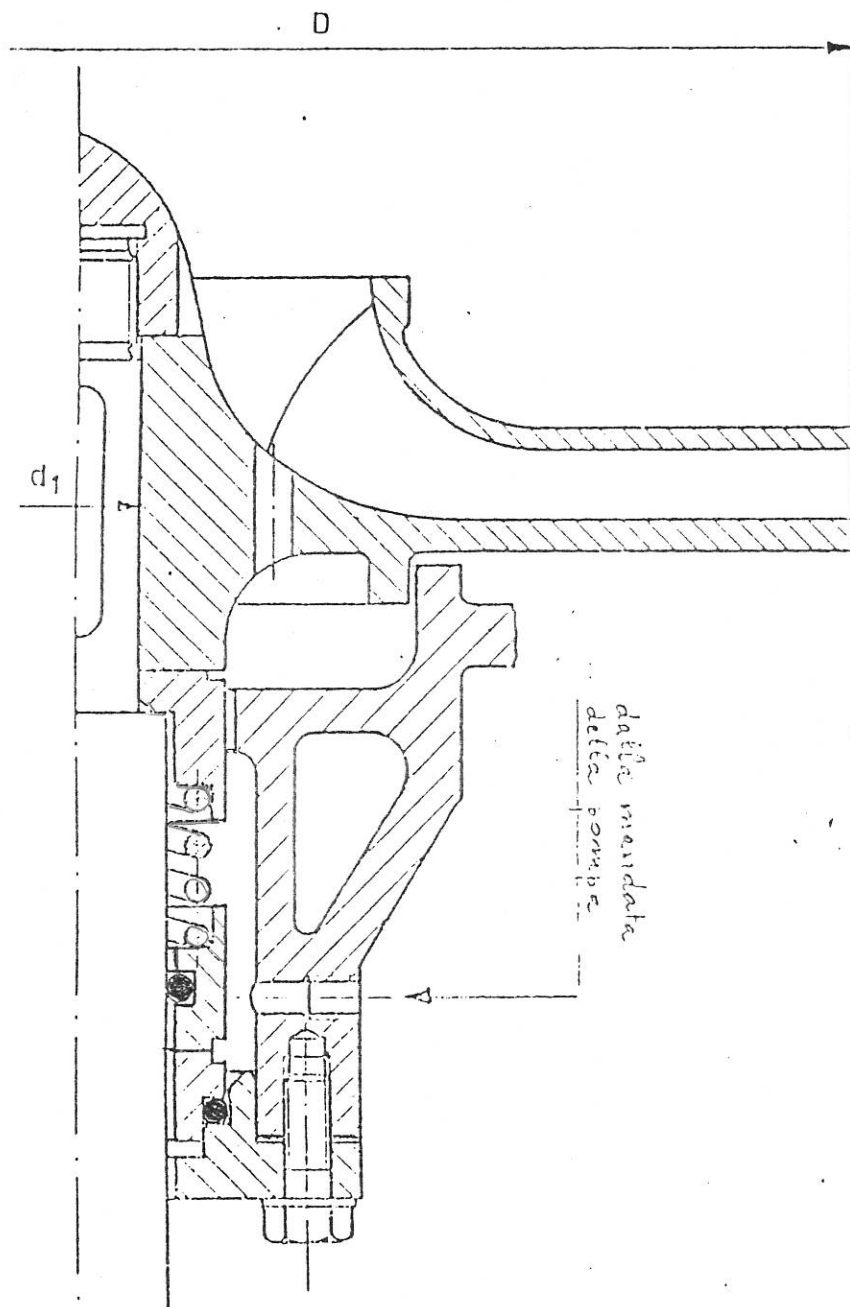
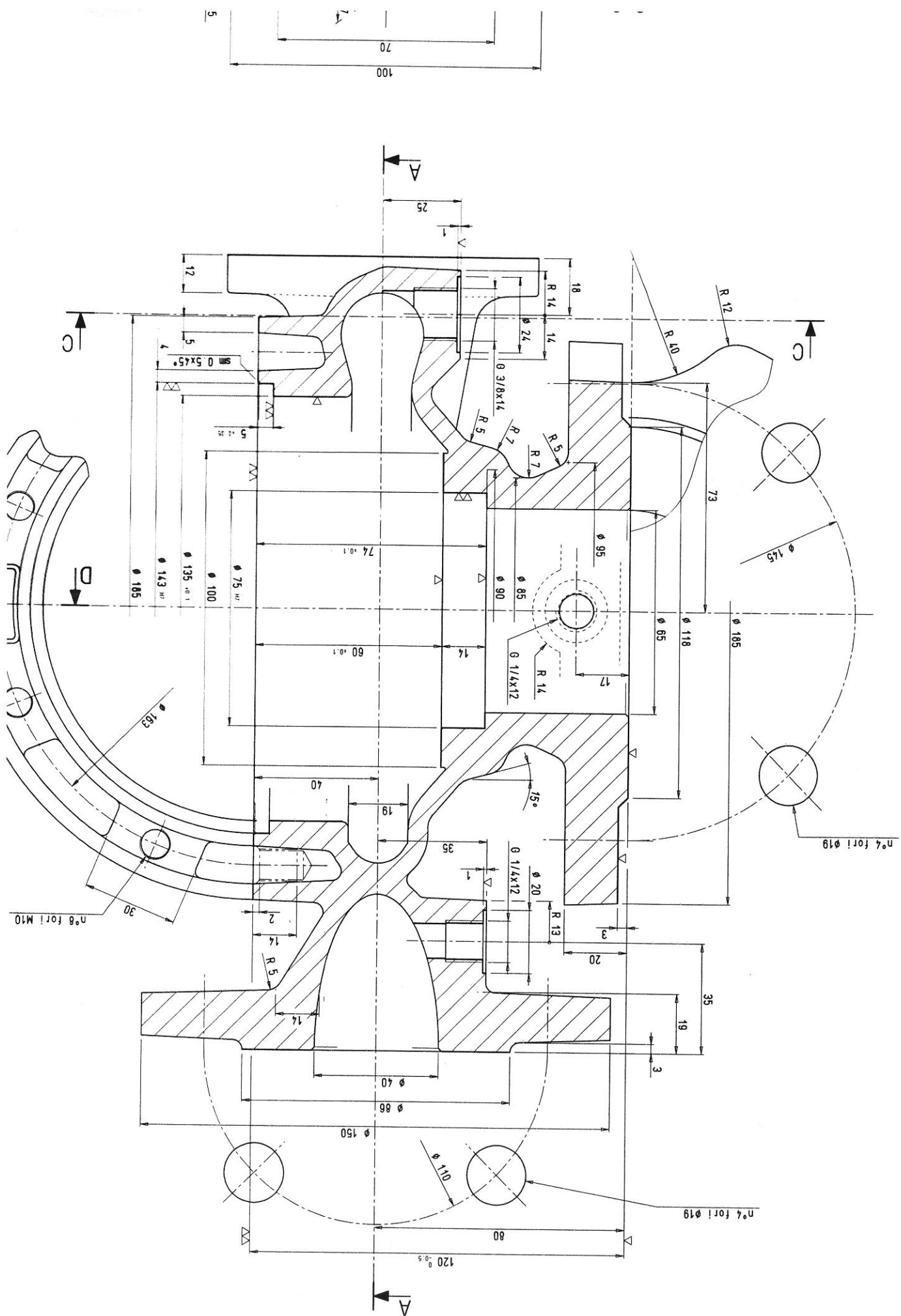
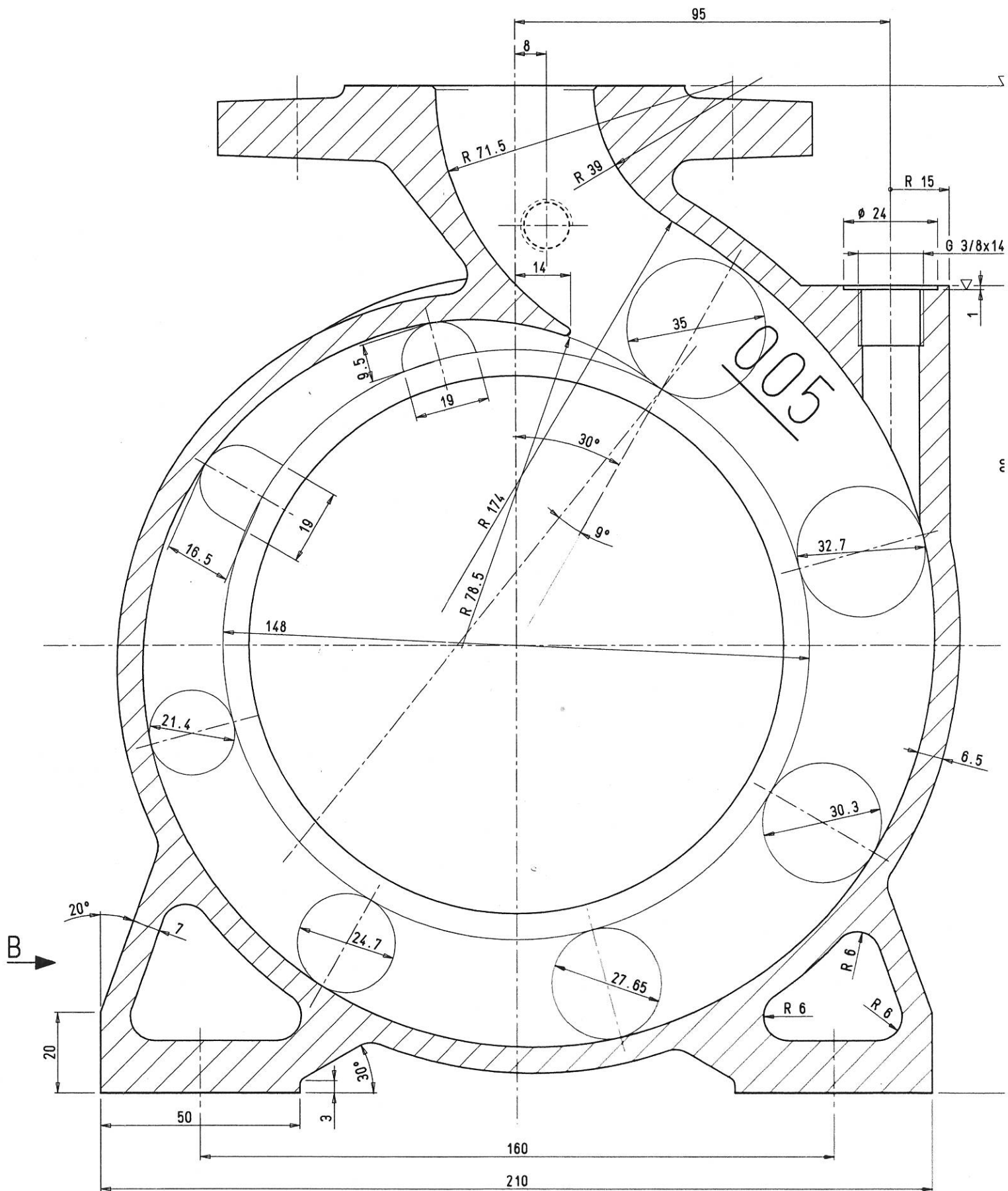


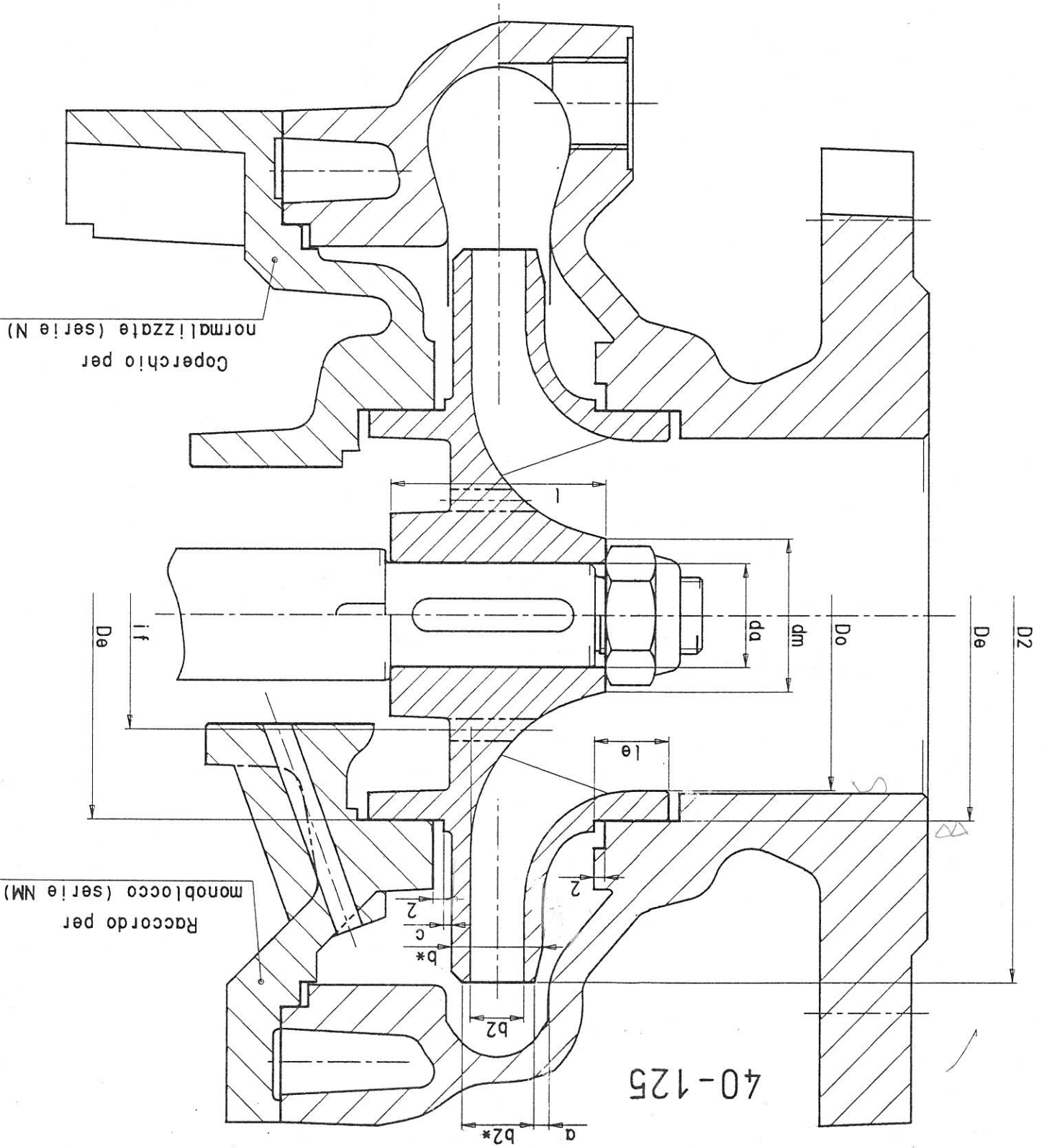




Sez. A-A

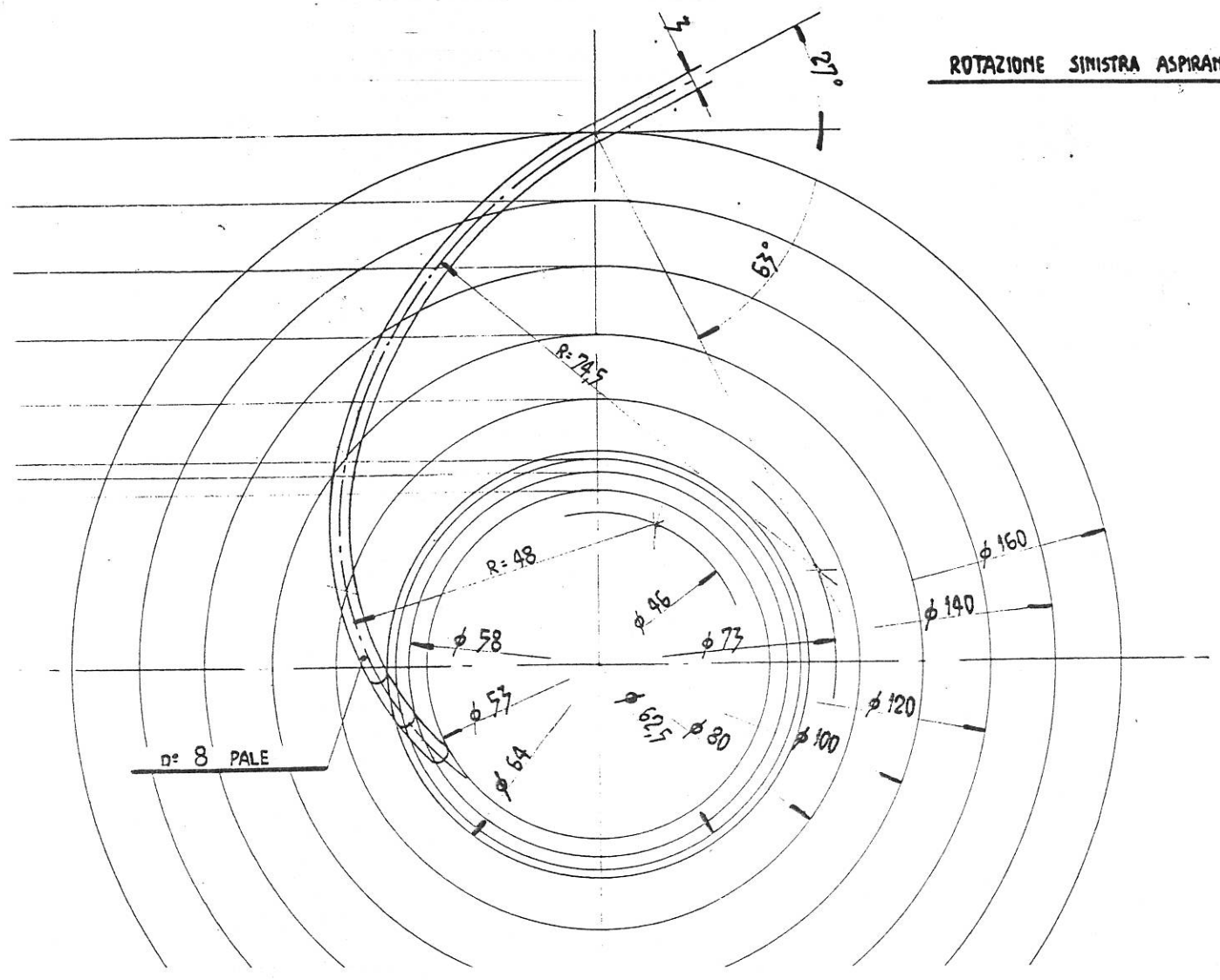


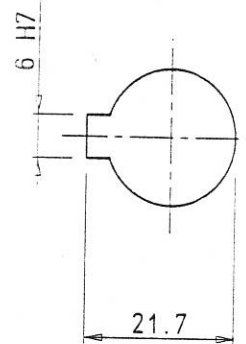
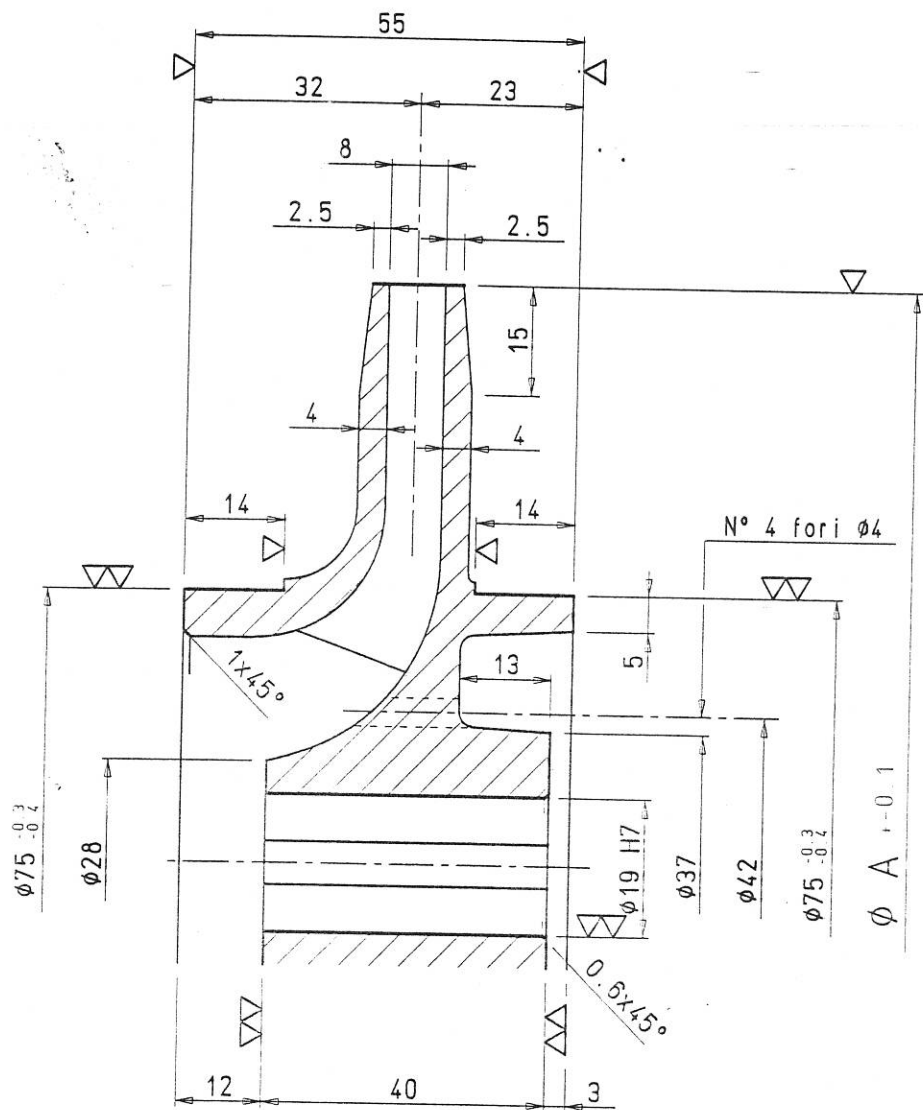
40-125



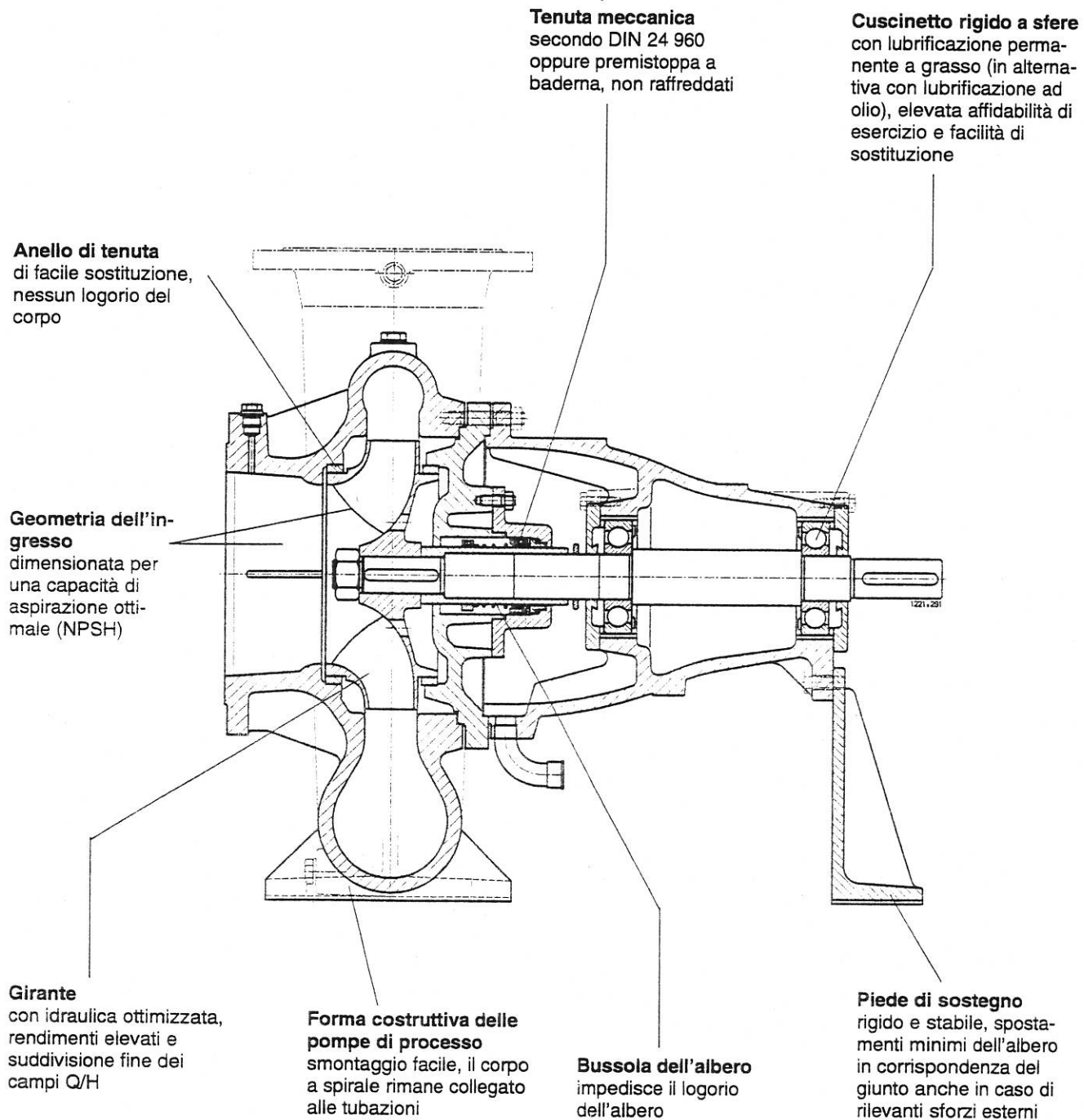
Disegnare 2 pale

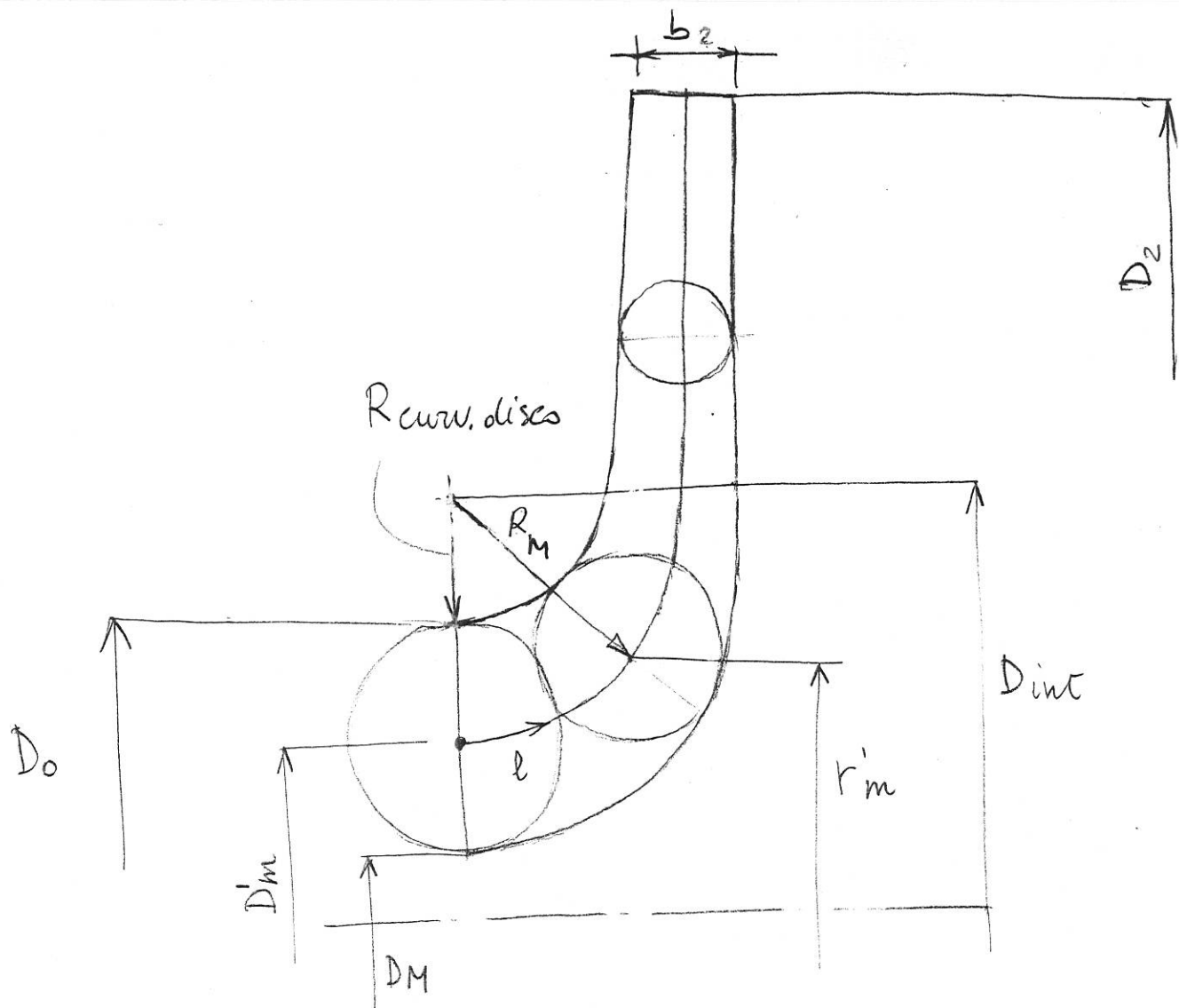
ROTAZIONE SINISTRA ASPIRANTE





pompe di processo





$$D'_m = \frac{D_0 + D_M}{2} ; \quad D_{int} = D_0 + 2 \cdot R_{curv. \text{ discs}}$$

$$\frac{R_{curv. \text{ discs}}}{D_2} \approx 0.05 \div 0.1$$

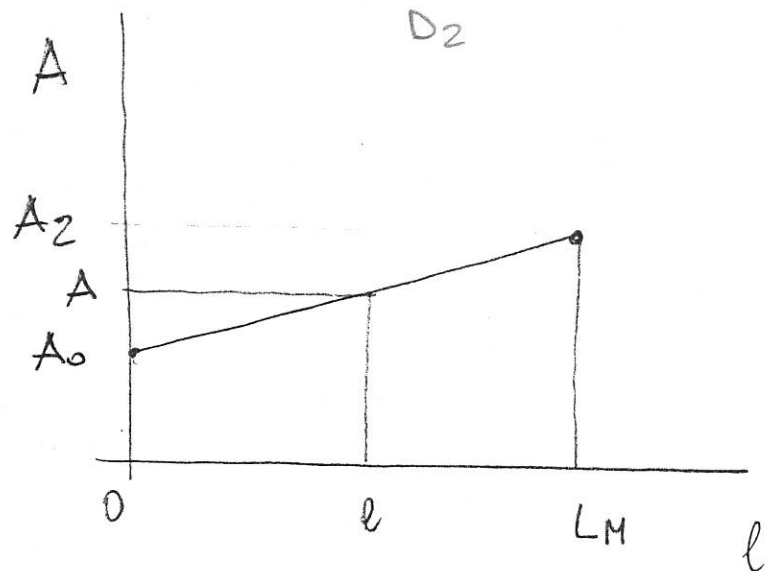
$$R_M = \frac{D_{int} - D'_m}{2}$$

$$L_M = \frac{\pi}{2} R_M + \frac{D_2 - D_{int}}{2}$$

$$A_0 = \frac{\pi}{4} (D_0^2 - D_M^2)$$

$$A_2 = \pi D_2 b_2$$

$$A = A_0 + \frac{A_2 - A_0}{L_M} l$$

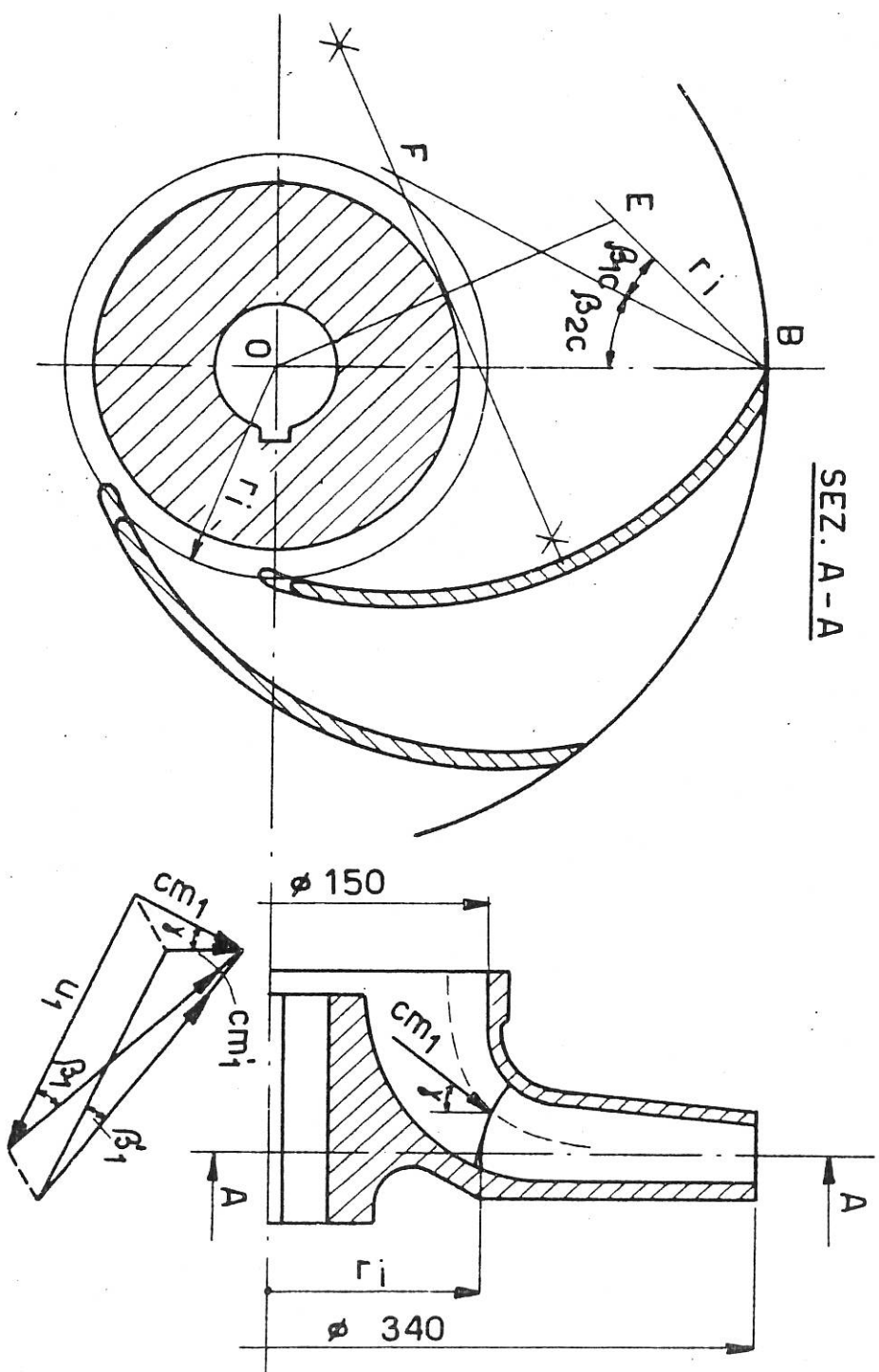




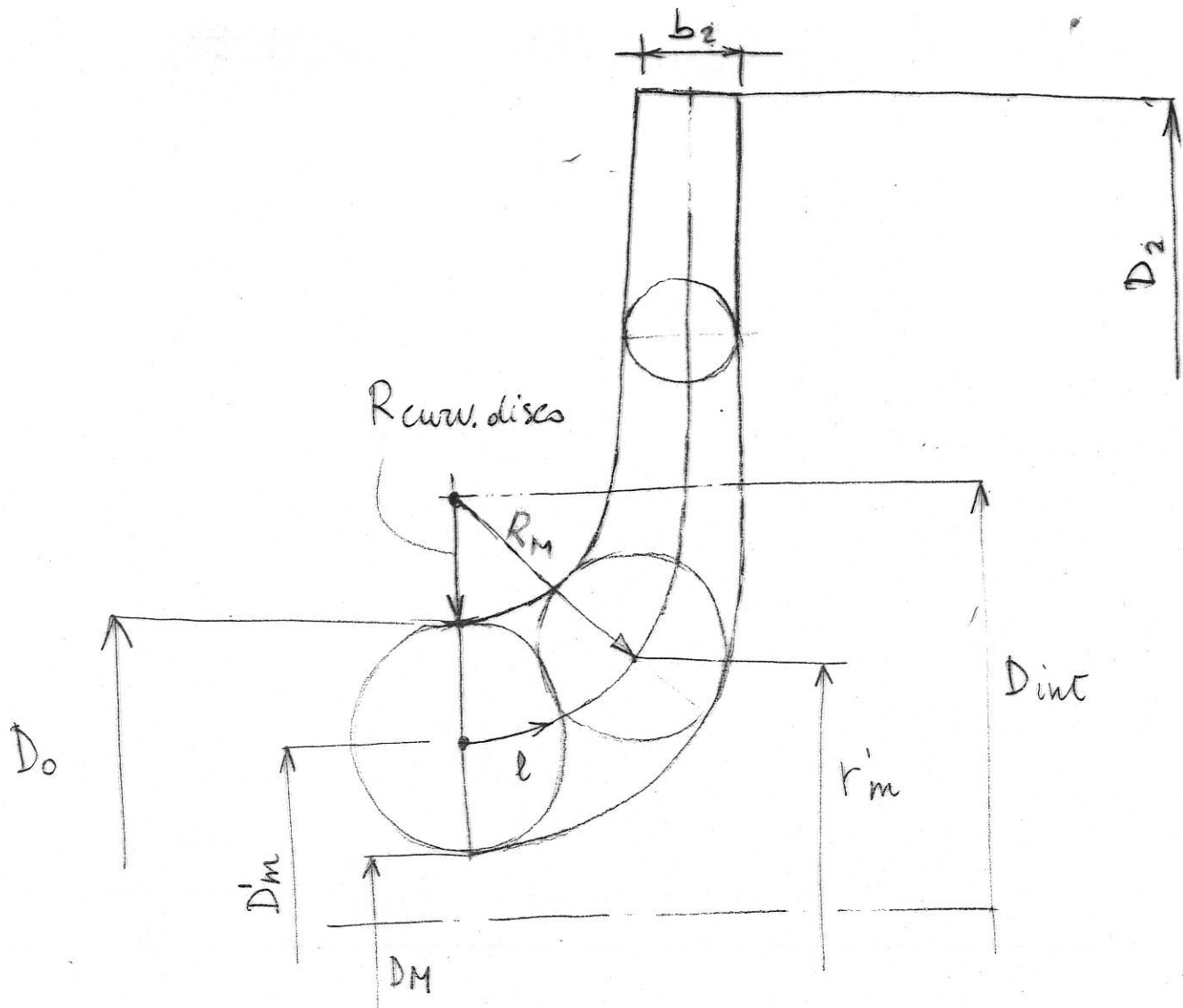
$$Z_s = Z'_m - \frac{b}{2} \sin \theta$$

$$Z_H = Z'_m + \frac{b}{2} \sin \theta$$

$$Z'_m = Z_0 + R_M \sin \theta$$



— Girante con pale a semplice curvatura e profilo ad arco di cerchio.



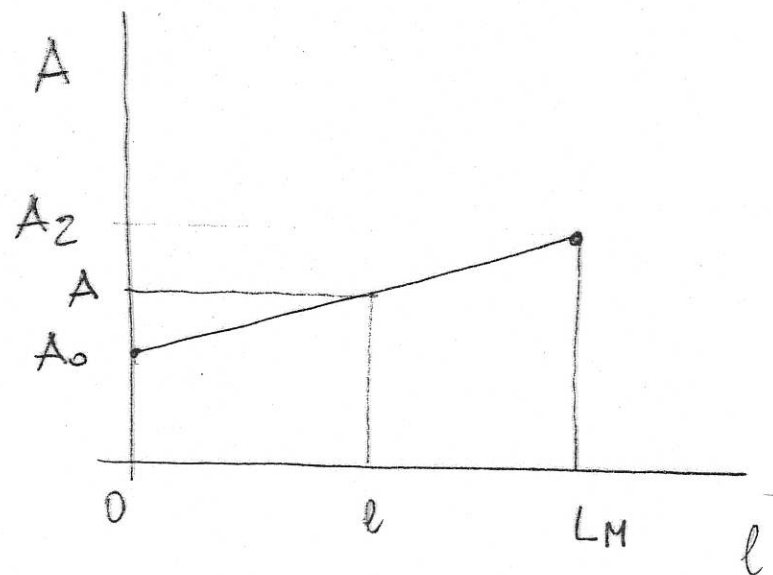
$$D'_m = \frac{D_0 + D_M}{2} ; D_{int} = D_0 + 2 \cdot R_{curv. discs}$$

$$R_M = \frac{D_{int} - D'_m}{2}$$

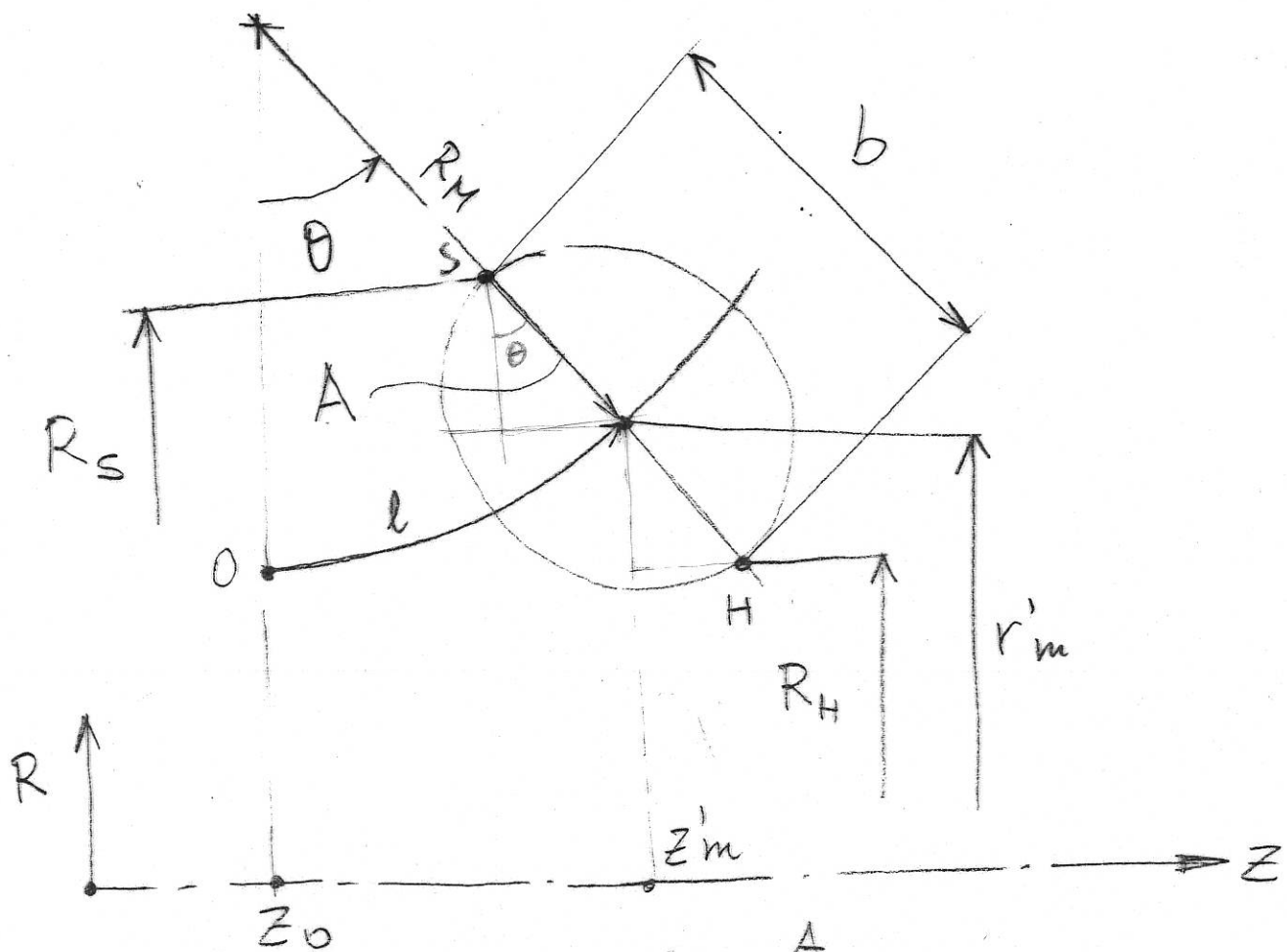
$$L_M = \frac{\pi}{2} R_M + \frac{D_2 - D_{int}}{2}$$

$$A_0 = \frac{\pi}{4} (D_0^2 - D_M^2)$$

$$A_2 = \pi D_2 b_2$$



$$A = A_0 + \frac{A_2 - A_0}{L_M} l$$



$$A = 2\pi r'_m b \Rightarrow b' = \frac{A}{2\pi r'_m}$$

$$R_s = r'_m + \frac{b}{2} \cos \theta$$

$$Z_s = Z'_m - \frac{b}{2} \sin \theta$$

$$R_H = r'_m - \frac{b}{2} \cos \theta$$

$$Z_H = Z'_m + \frac{b}{2} \sin \theta$$

$$Z'_m = Z_0 + R_M \sin \theta$$

$$R_{CM} = 37 \text{ mm}$$

$$D_0 = 144 \text{ mm}$$

$$D_h = 42 \text{ mm}$$

$$D_M = 906 \text{ mm}$$

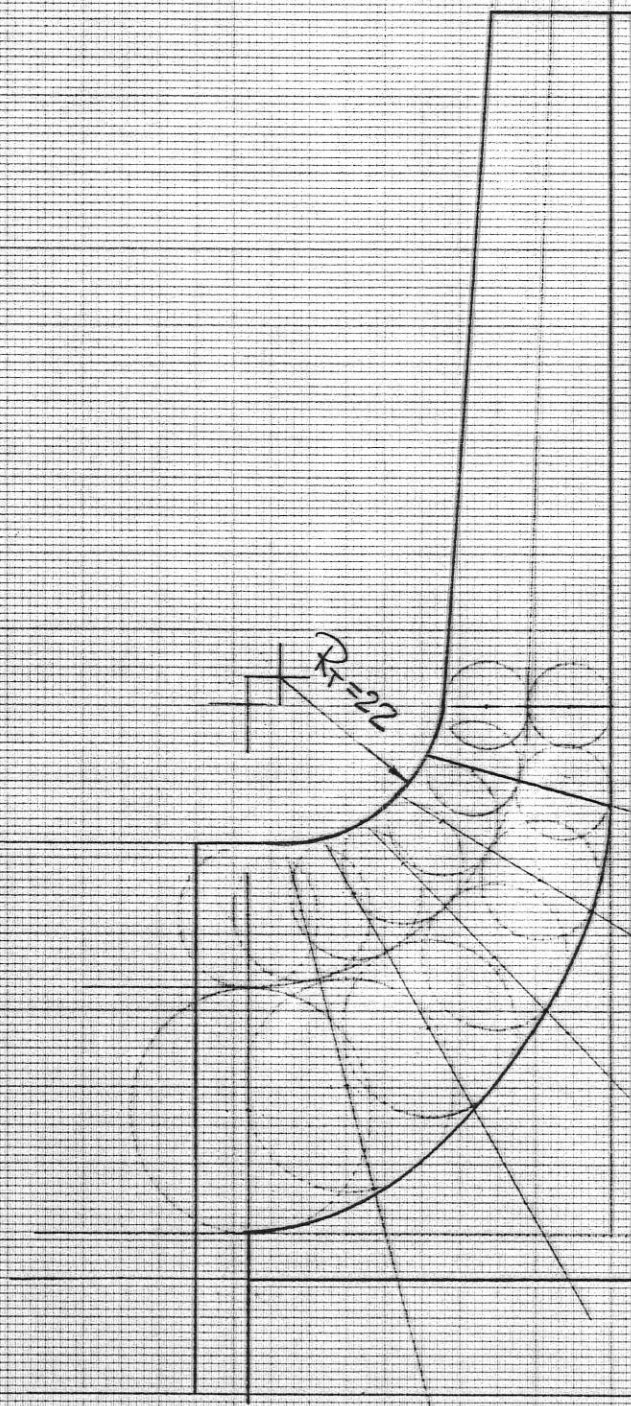
$$D_2 = 362 \text{ mm}$$

$$b_2 = 16 \text{ mm}$$

$$R_T = 22 \text{ mm}$$

$$R_T/D_0 = 0,1528$$

$$R_T/D_2 = 0,0608$$



80

70

$$R_{CM} = 37 \text{ mm}$$

$$D_0 = 144 \text{ mm}$$

$$D_h = 42 \text{ mm}$$

$$D_H = 106 \text{ mm}$$

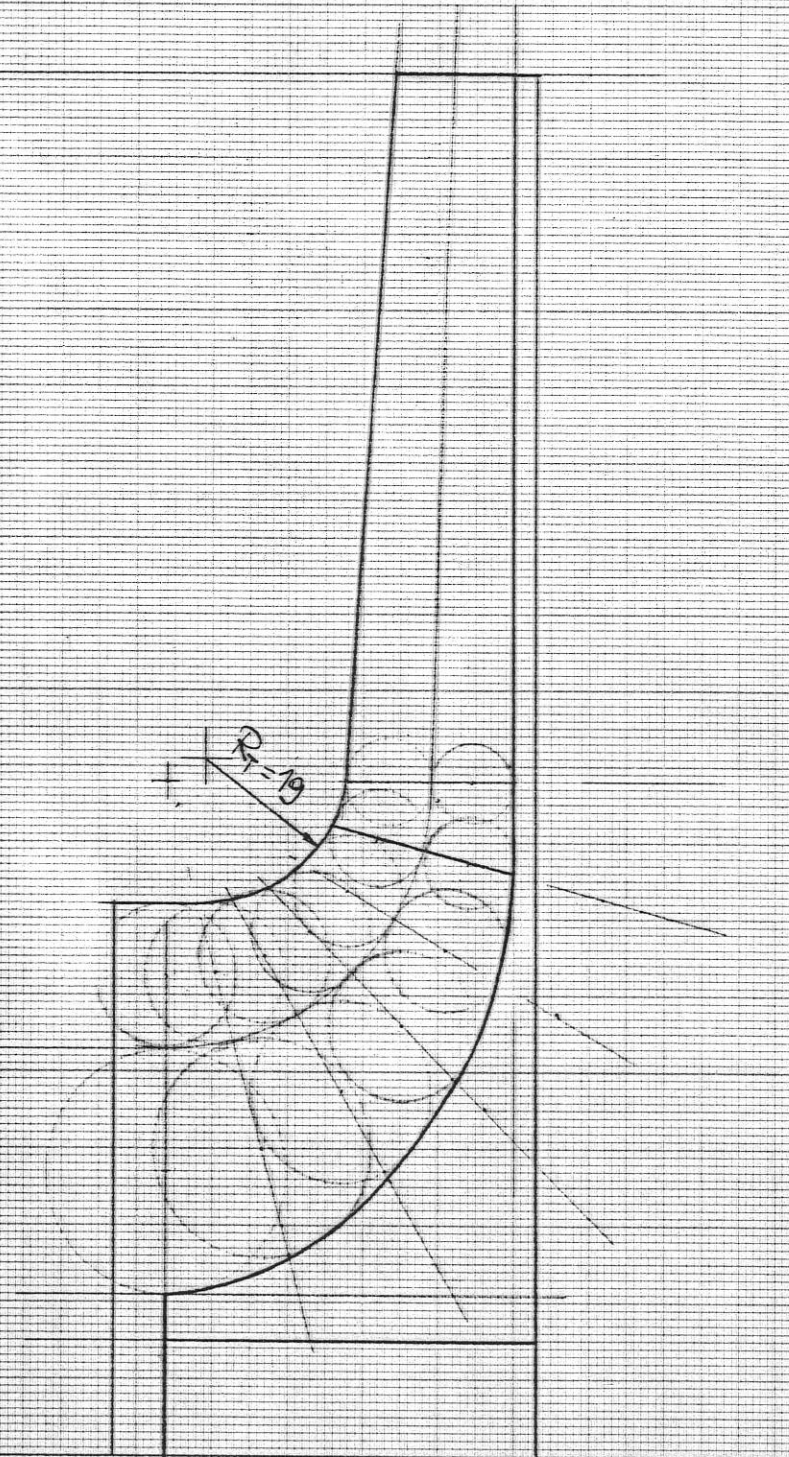
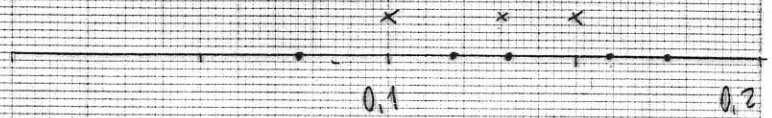
$$D_2 = 362 \text{ mm}$$

$$b_2 = 16 \text{ mm}$$

$$R_T = 19 \text{ mm}$$

$$R_T/D_0 = 0.1319$$

$$R_T/D_2 = 0.0525$$



80
70
60

$$D_0 = 144 \text{ mm}$$

$$D_2 = 362 \text{ ''}$$

$$D_h = 42 \text{ ''}$$

$$D_M = 106 \text{ ''}$$

$$R_T = 11 \text{ ''}$$

$$R_T/D_0 = 0,0764$$

$$R_T/D_2 = 0,0304$$

$$\frac{D_h}{D_0} = 0,292$$

$$b_2 = 16 \text{ mm}$$

$$\alpha_{cor} = 4^\circ$$

$$R_{CH} = 27 \text{ mm}$$

