

system, which are used extensively in industry and factories are commonly plumbed with compressed air or compressed inert gases.

3. Pneumatic Circuit

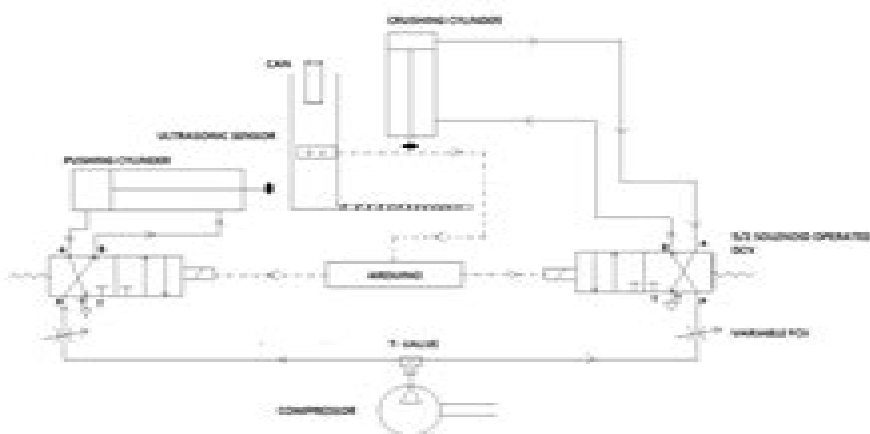


Figure 3.1. Neutral position of Pneumatic Circuit.

4. Design & Calculation

The main aim of this is to study the complete design of Automatic can crusher machine. We have to design pushing and crushing cylinder.



Figure 4.2 Double acting Cylinder

i. Force generated by crushing cylinder

1. Diameter of the cylinder-37.5 mm
2. Diameter of the piston rod-10 mm
3. Operating pressure range-1-9 bar
4. Endurance pressure-10 bar

$$F = P \times A$$

$$A = 3.14 / 4 \times D^2$$

$$A = 3.14 / 4 \times 37.5^2$$

$$A = 1105 \text{ mm}^2 = 1.105 \times 10^{-3} \text{ m}^2$$

$$P = F/A$$

$$6.5 \times 10^5 = F / (1.104 \times 10^{-3})$$

$$F = 717.90 \text{ N}$$

Force during retracting stroke:-

$$P = F / (A-a)$$

$$1 \times 10^5 = F / (1.104 \times 10^{-3} - 7.853 \times 10^{-5})$$

$$F = 102.54 \text{ N}$$

ii. Forces acting on pushing cylinder

1. Diameter of the cylinder-15 mm
2. Diameter of the piston rod- 7 mm
3. Operating pressure range-1-9 bar
4. Endurance pressure-10 bar

$$\text{Force during extending stroke:- } F = P \times A$$

$$A = 3.14 / 4 \times D^2$$

$$A = 3.14 / 4 \times 15^2$$

$$A = 176.625 \text{ mm}^2 = 1.761 \times 10^{-4} \text{ m}^2$$

$$6.5 \times 10^5 = F / (1.761 \times 10^{-4})$$

$$F = 114.465 \text{ N}$$

Force during retracting stroke:-

$$P = F / (A-a)$$

Motor Can Crusher Project Report

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