



IS 1970 : 2024 - Crop Protection Equipment - Hand-Operated Compression - Knapsack Sprayer - Specification

The product "Crop Protection Equipment - Hand-Operated Compression - Knapsack Sprayer" is a type of agricultural equipment designed for **applying liquid pesticides**, herbicides, fungicides, and **fertilizers directly onto crops**. This type of sprayer is widely used by small-scale farmers, gardeners, and landscape professionals for effective crop protection and plant care, ensuring that plants receive the **necessary treatments** to combat pests and promote healthy growth.

The **Indian Standard IS 1970:2024** specifies requirements for hand-operated compression knapsack sprayers used in crop protection, primarily for applying pesticides. The maximum working pressure of this type of sprayers is 400 kPa. This Standard includes detailed technical and **performance specifications**, construction materials, and test methods. The standard defines key components such as tanks, pistons, hoses, and nozzles, as well as **safety and endurance requirements** to ensure durability and **effective spraying**. Performance tests assess discharge rates, pressure, endurance, and **component reliability**.

Additional features specified in IS 1970 : 2024 like **safety gear**, optional pressure gauges, and cut-off devices are included to **enhance operator safety** and precision in pesticide application.