

**Crop Protection Equipment - Hand-Operated Compression - Knapsack Sprayer  
- Specification**

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 like safety gear, optional pressure gauges, and cut-off devices are included to enhance operator safety and precision in pesticide application.