



The True Value of Valve Maintenance

Lack of Maintenance



Lack of maintenance of hydraulic systems is the leading cause of component and system failure.

(Source: [ReliabilityWeb](#))

More than 70% of spare parts sold for hydraulic equipment are used to replace defective components.

90% of these defects can be attributed to improper operation and maintenance.

(Source: [Hydraulic Maintenance Handbook](#))

Reactive Maintenance vs. Preventive Maintenance

Preventive maintenance programs **save the average facility 12-18%** over reactive programs.

(Source: [Buildings](#))

55% of all facilities utilize a reactive maintenance program; only **31% of facilities** follow a preventive maintenance program.

(Source: [Buildings](#))



Emergency maintenance can cost

4 to 10x

as much as preventive maintenance solutions.

(Source: [ChemInfo](#))

Valve Maintenance Cost Savings

80% of equipment breakdowns are caused by **20%** of the possible faults.

20% of maintenance efforts can generate an **80%** reduction in machine operating costs.

(Source: [Hydraulics & Pneumatics](#))

When a valve maintenance program in a large facility is not properly planned and implemented, a full-time valve engineer can easily be worth **\$1 million or more** when the costs of repair and replacement are combined with improved operations and plant availability.

(Source: [Control Engineering](#))

Every **\$1** spent planning and scheduling can **save \$3 to \$7** in execution.

(Source: [Empowering Valves](#))



Downtime

50% of refinery maintenance is now unplanned.

In 2011, there were an estimated 2,700 unplanned downtime events in refineries.

(Source: [Maintenance Technology](#))



One plant recorded its production losses against the equipment that caused them.

A Preto analysis revealed that **80% of all unscheduled maintenance downtime could be attributed to 87 items**—less than 1% of more than 12,000 equipment items. A new preventive maintenance program that focused on these 87 items and similar equipment reduced unscheduled maintenance downtime by **more than 50% within 18 months.**

(Source: [Reliable Plant](#))

Preventive Maintenance Inspections

In a process plant, preventive maintenance inspections should consume **no more than 15-20%** of available maintenance manpower.

(Source: [Reliable Plant](#))

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