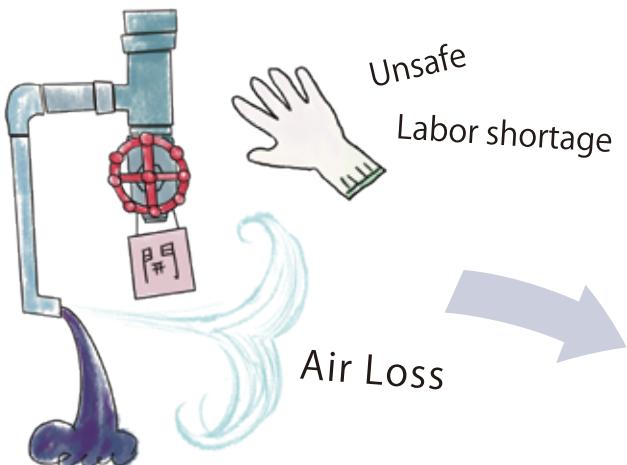
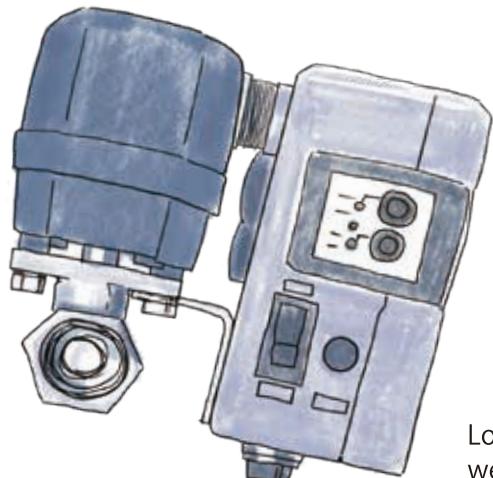


You can contribute to carbon neutrality and a decarbonized society by reducing CO2 emissions with a drain timer valve.



Automating and optimizing valve opening and closing contributes not only to improved safety but also to efficient power utilization and CO2 reduction!



In many factories, drainage systems release high-pressure air along with condensate, leading to substantial energy loss. Manual valve operation not only wastes energy but also increases safety risks and adds to labour challenges in already understaffed facilities.

Did you know? Generating compressed air isn't cheap.

Every minute your compressor runs, it costs you money! Even when it's just draining air with condensate! Wasted air can cost you over ₹9 lakh a year. Even with limited operation, losses can exceed ₹2 lakh annually.

Here's how that cost adds up:

Compressed Air Generation Cost:

$$= \text{Electricity Cost (₹8/kWh; common industrial rate; varies by state)} \times \text{Motor Power (37 kW)} \\ \div \text{Motor Efficiency (70\%)} \div \text{Discharge Air Volume (6.8 m}^3/\text{min} \times 60 \text{ min)} \quad ₹ 1.04/\text{min per minute}$$

Let's say a drain valve is accidentally left open just 4 hours a day: ₹ 1.04/min × 60 min × 4 hrs × 250 days = ₹62,400/year

Now imagine this happening across multiple lines, every day...

Drain valves are often left open after discharging condensate. When this happens, compressed air escapes continuously. If 25% of air is discharged due to the valve, it results in an electricity loss of approximately ₹0.26 per minute.

Annual Loss Cost = Air Loss (1.7 m³/min) × Operating Time (60 min/hour × Daily Operating Hours × Annual Operating Days) × Air Generation Cost (₹1.04/min)

	Operating Hours	Working Days	Estimated Annual Loss [₹]
w/o Interruption	24 hrs/day	365 days/year	₹9,29,261
According to Callender	8 hrs/day	250 days/year	₹2,12,160

Even a single open valve can cost over ₹9 lakh a year. With limited operation, the loss can still exceed ₹2 lakh annually.

Join the Move Toward Smart, Sustainable Factories. Install Airtec's Drain Timer Valve Today.

Manufacturer

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