NO-DES
WATER PIPES FLUSHING SYSTEM

Neutral Output Discharge Elimination System

SMART TECHNOLOGIES DELIVERING SMARTER SOLUTIONS FOR MANAGING ASSETS

WATER PIPES FLUSHING SYSTEM

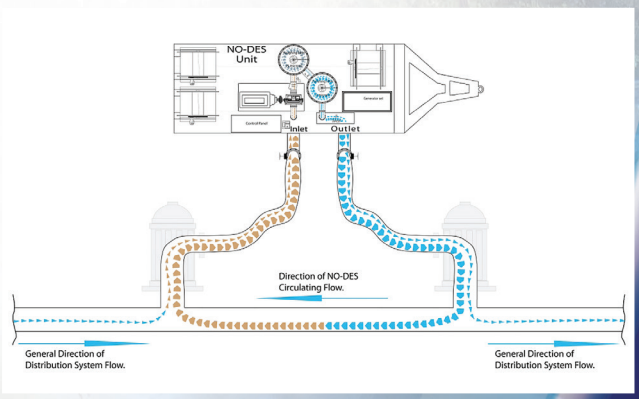
A better and more effective way of cleaning water pipes with virtually no water loss.

NO-DES *is the only water distribution system flushing method that improves water quality, eliminates NPDES issues, and conserves water. This technology will increase customer confidence and establish you as an industry leader in water conservation.*

NO-DES can be used for:-

- Newly installed water pipe flushing (chlorinating and de-chlorinating)
- Cleaning-up water pipes after leak/repairs (re-disinfect and samples)
- Water storage tank cleaning and draining (full or empty; can be used in conjunction with divers inspecting, cleaning or repairing tanks that cannot be drained)
- Standard Booster Pump; the NO-DES unit was also designed to be used as a standard booster (or transfer pumping unit). The unit will filter the water being transferred and can also be chlorinated if desired, benefits that traditional booster systems cannot make available

"Created as a solution for the large waste of potable drinking water from hydrant flushing programs throughout the world"



DETECTION SERVICES
PIPELINE INSPECTION AND ANALYSIS

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Traditionally, water pipes have been flushed by opening fire hydrants and letting water gush out into the street. The **NO-DES** *system saves this water by attaching to two fire hydrants and creating a temporary above ground loop through which the water is circulated, cleaned and returned to the pipe. The* **NO-DES** *machine flushes the water between the hydrants at a velocity that intentionally stirs up the sediments, and then removes them in the* **NO-DES** *filters.*

WHY CHOOSE NO-DES?

- it requires no shutdown
- is a no disruption, efficient, effective way of cleaning water pipes,
- will NOT affect customer supply (unlike conventional flushing), as **NO-DES** does NOT require the pipe to be de-pressurised or supply to be turned off
- is self-contained, with no water flushed down the street
- it works using very high velocities
- it filters and re-circulates the water inside the pipes (down to one-micron absolute – approx. 100 times smaller than the diameter of a human hair)
- is a controlled flow providing for reduced damage – no water hammers or pipe / lining erosion
- conserves two vital natural resources — water and the energy it took to produce and pump it

The NO-DES Method is Simple

1 EASY SET UP
A **NO-DES** truck with a massive 2 vessel filtering system pulls up between two fire hydrants in an area where "dirty' water is being experienced.

2 CONNECT
A heavy-duty hose is connected from one fire hydrant to the **NO-DES** filtering system inlet point. A second hose is then connected to a second fire hydrant from the **NO-DES** outlet point.

3 CREATE "LOOP"
Both fire hydrants are opened, filling the hoses and filters, creating a temporary above ground loop in the water distribution system.

4 CIRCULATE
A large, variable speed pump on the **NO-DES** unit then circulates the water through the loop at very high speed in the opposite direction of the natural flow. This "stirs up" the sediments and biofilms inside the water main.

5 FILTER & PURIFY
Practically all sediments and biofilms are removed as the water passes through **NO-DES**'s extremely fine 24-chamber filtration system. n.b. a small amount of chlorine is added during the process.

6 SHUT DOWN
When the entire section of water main between the hydrants has been flushed clean, the system is shut down, hydrants are closed and hoses removed. The entire process takes only 45 minutes from start to finish.

Detection Services is one of the most experienced and industry-leading organisations in water and pipeline management related services across Australasia. Our client-focussed teams are committed to providing quality services to the water industry.

Detection Services
10 service locations

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Membership Associations

AWA australian water association · waterAUSTRALIA · Water Industry Alliance · water NEW ZEALAND · American Water Works Association

OHSAS 18001 · ISO 14001 · ISO 9001 · AS/NZS 4801

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