ALKA

A bulletproof solution for tube, hose and pipe cleaning

How it works

ALKA Pro-Clean is a tube cleaning solution which operates by **shooting a special projectile with a jet of compressed air.** This system can be applied to tubes measuring an ***internal*** **diameter from 2mm** up to a few hundreds, and lengths of 10, 100 or even 1000m (depending on the air capacity) and can also be applied in the presence of 90° **curves**, **"T"** or **"Y" couplings** or ball **valves.**

Main advantages:

- Extremely fast and economic
- Ideal for quality control/selection of suppliers of new tubes
- Stronger cleaning power than techniques using compressed air or flushing
- Can be used for ordinary maintenance operations and prevention
- Can be used on curved tubes (even 90° bends), connectors, tees, ball valves, changes in diameter
- Can be used on rigid or flexible tubes and is compatible with any material
- You save a great deal on chemical products and consequently produce less waste

A solution that lets you clean tubes of all sorts, from those used in **hydraulic systems**, to **air conditioners**, from **food industry** to **pharmaceutical**. With ALKA Pro-Clean you can **degrease, lubricate** and **disinfect** extremely efficiently, in a **shorter time**, for **less money** and using, only if necessary, minimum quantities of chemical products. You can also **remove production scraps** (e.g. from cutting, welding…). It can also be used for **product recovery** in the dosage tubes or as an instrument for regular **maintenance** and, last but not least, for **quality control on new tubes.**

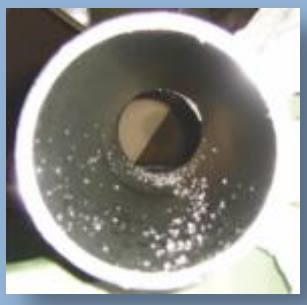
Quick guide

1. After connecting the pistol to a source of compressed air, open the front ring and select the nozzle according to the diameter of the pipe to be cleaned. Insert the nozzle into the slot.

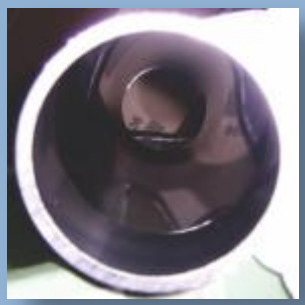
2. Select the appropriate projectile according to the diameter of the tube and the type of cleaning you need to perform. Insert the projectile inside the nozzle and close the front ring.

3. Push the nozzle towards the end of the tube. Pull the trigger and hold it until the projectile comes off at the other end, where the projectile and removed impurities can be collected into a container.

An example of a cleaning performed on a steel tube in order to remove metal processing residues.



BEFORE



AFTER

A solution for any need

AD-32

Primarly designed for small and medium requirements, even occasional, it is an entry level solution that allows, with minimal investment, to perform checks and cleaning with maximum efficiency, using the same projectiles of the other solutions.

From **2 up to 35 mm** (I.D.)
Operating pressure: max **6 Bar**

AD-50

A superior pistol able to meet cleaning requirements also for larger diameters. With improved functional details it is also suitable for production needs, so to have a product capable of coping with any need.

From **2 up to 60*mm** (I.D.)
Operating pressure: max **8 Bar**

Projectiles

Complex: This is a "universal" projectile of medium density, with a highly porous surface that can remove a vast range of contaminations. Ideal for tubes in oil pressure systems, air conditioners and other situations in which it is necessary to remove dusts, shavings or other production residue stuck to the internal walls of the tubes. Ideal to be used together with chemical products with which these projectiles can be soaked in because of their high absorbent properties or, for the same reason, for using to dry and remove liquid or humid residue. Suitable for use on tubes with narrowing diameter (even up to about 40% of the projectile's diameter), T couplings, 90° elbows, etc...

Superhard: The characteristics of this projectile are similar to those of the Complex projectile, but it has a greater density and hardness that make it ideal for the most difficult use like the removal of welding residue and some types of scaling. Less suitable for tubes with narrowing diameter, it can be compressed up to about 20%. It can also be used with Tee junction or 90° elbows, but beyond a certain diameter (which depends proportionately on the thrust of the available air capacity) the passage can be difficult and therefore becomes no longer indicated.

Food&Flex: This is a projectile which is also characterized by a highly porous surface, but also by a softer mix compared to Complex projectile. It does not exercise much lateral force against the internal walls of the tube; usable preferably for removing less demanding residue, such as fluids, dusts or simply left over particles, especially where there are diameter reductions (even up to 50% of the projectile diameter). Suitable for T couplings and 90° elbows, etc..

ABR: Projectiles with head topped with abrasive material. Designed for removing tough deposits for which the non-abrasive surface of Complex, Superhard and Food&Flex projectiles are ineffective. It can be compressed up to 15% and can be used even where there are T couplings and 90° elbows, but has the same limitations as the Superhard projectile.

Rasp: Projectile with a totally abrasive surface and a very high rigidity. To be used in those cases where the highest possible removal capacity is required, especially for maintenance or recovery of tubes that have deposits such as rust. It can be used on tubes with shaped curves. It can not, however, be used on pipes with diameter variation, junctions, or T models.

Effectiveness and solid experience

New tubes

For producers of new tubes (rods or coils), this system enables you to drastically increase the quality of the finished product since it can be used to remove shavings, soot, or product residue from pickling which, if not removed, leaves a greasy deposit at the bottom of the tube which is difficult to remove subsequently, when it dries.

Hydraulics - Pneumatics

In hydraulic systems it is very important not to have any kind of slag inside the circuit, even the smallest particles suspended in the oil can damage pumps, valves or cause a premature saturation of the filters. This system enables you to check and remove any residue traces in the tubes, from metal shavings to rubber dusts, enabling you also to verify the correct mix and vulcanization of the flexible tubes before using; this also contributes to speeding up the plant's start up phase.

Piping - Technical gases - Clima

Before using new tubes, both flexible and stiff, these may contain production residue such as grease or dusts that can contaminate the product flowing through them. Also dangerous fragments stuck to the inner walls are often not easily removed with just a rinse with fluids or compressed air, but only in subsequent phases to its use, damaging the more delicate components of the system. It is possible to degrease piping for liquid oxygen or air conditioners and in this case you save up to 80% nitrogen and rapidly clean the split lines.

Food - Chemical - Pharma

The main advantage in this field is the considerable reduction in waste, because you have the possibility to recover residue product at the end of the different production cycles before rinsing out. In this way it is possible to recover considerable quantities of good, sellable product and at the same time operate a mechanical pre-wash that effectively removes product residue stuck to the tube walls or in the system's curves, which a simple fluid wash might not remove completely. The system can be used also for sanitization of tubes, by soaking the projectile with disinfectant products, combining thus mechanical and chemical action.

Transport

In the Automotive, Aerospace, Railway or Naval sector interest is expressed at 360°, because each of these vehicles contains various devices that all work thanks to tubes of various kinds and these need to be extremely clean. From hydraulic and pneumatic movement systems to sanitary tubes, air conditioning systems, fuel injection tubes, braking systems, power steering, etc... This system enables you to carry out an accurate but fast quality control of the purchased tubes, ensuring an elevated and homogenous qualitative standard, obtaining maximum reliability and consequently maximum safety.

Maintenance

In maintenance there can be a number of uses for which ALKA has proved to be incredibly useful and effective; depending on the kind of residue to remove you can obtain excellent results in the least time and at a cost that has no comparison with traditional techniques. This applies to both general systems with tubes of various lengths that, for example, don't need to be dismantled, as well as single components such as a tube bundle heat exchanger, especially if U shaped.

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