IDEAS

Qualified & crafted with care

TORCAL

Valves and systems to control and dose powder and granule flow
in Pharmaceutical and Chemical industry

Shaping the future through quality manufacturing

With 40 years of experience CO.RA. srl is the Italian excellence in the process of designing and building machinery for interception, dosing, regulation and handling of solid products (powders, tablets, capsules or granules) both in chemical and pharmaceutical fields, but also in food and cosmetics ones.
Our manufacturing process of industrial valves stands out for its technological excellence and flexibility, thanks to our team made up of approximately fifty eployees, including researchers, engineers, craftsmen, designers…each and averyone embody CO.RA. srl value through their actions an behaviors.

In 2010 as result of our depth knowledge in chemical and pharmaceutical processes, we opened CO.RA. Technology Center, a creative workshop that enabled us to develop important patents on valves and systems, becoming a Company recognize worldwide for its innovation.

That's why we offer a completely individualized product using a unique pattern created from scratch for the client's specific preferences.
Most of all, we are among the few who can provide end to end production solutions with utmost after sale services.

All of our products are designed and realized at our headquarter in Altopascio in accordance with FDA and ATEX norms. Through our qualified staff, constantly updated on GMP guidelines, we can support our customers in writing Qualification protocols (DQ, FAT, SAT, IQ, OQ, PQ) and in carrying out the related tests.

From 2025 EcoVadis has recognized and certified our strong commitment to sustainable development.

That's the essence of a true bespoke manufacturer as CO.RA.

CO.RA®
Your partner in progress

TORCAL
INGENIERÍA PARA SÓLIDOS A GRANEL

The experience gained in 40 years of activity, makes CO.RA. srl an ideal partner who is able to offer a range of transversal products, from components and fittings for the chemical-pharmaceutical all the way to **SOLID HANDLING** plants, ensuring assembly, testing, maintenance, revamping and assistance to support Companies in every phase of their production process, without geographical limits.

The processes of technical design, processing, testing and certification of the products respect the quality procedures, the most careful and strict certification bodies in compliance with the Pharmacopoeia directives (FDA).










SOLE VALVE

The **SOLE VALVE** represents the best of what is available as far as a butterfly valve conceived for flow control of powders and granules is concerned.

TABLET VALVE

The **TABLET VALVE** offers the customer a new option as far as the handling of the finished product is concerned. The unique silicone vane allows the opening and closing of the valve without any damage to the product.





SURE FLATE VALVE

The **SURE FLATE** is a valve developped for products that are abrasive or difficult to convey.

ROTARY VALVE

The **ROTARY VALVE** is indicated for applications where a continuous flow of powders and granules for the feeding of process machines is required.





ROTARY VALVE TABLET

The **ROTARY VALVE TABLET** is a valve designed for the interception, flow control and bulk dosage of tablets, capsules and silicone caps.



ROTARY PRESSURE VALVE

The **ROTARY PRESSURE VALVE** is a valve designed for application where the product handled.

VR8V VALVE

The **VR8V** is designed to dose powder under pressure and vacuum. It is suitable for the continuous feeding of powder while maintaining uniform RPM regulation. The brushless electric motor with control encoder assures very accurate dosing.





DOUBLE VALVE

The **DOUBLE VALVE** is composed of a body with a large vane which has a small rotor in its center. The vane transfers a large quantity of product while the rotor discharges the pre-regulated total weight.

DOUBLE VALVE GASKET

The **DOUBLE VALVE GASKET** is a variant of the **DOUBLE VALVE**, and is supplied with a sealing gasket between the vane and the rotor. This allow a pressure seal with valve closed and less product leak during the discharge.





HR CRUSHER

The **HR CRUSHER** is the ideal solution to break product and is particularly suited for hygroscopic material or material that tend to pack.

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SANI FLOW

The **SANI FLOW** discharge system is used for the feeding of press machines or capsule filling machines, regulating the flow of the product. This system can be completely disassembled thanks to a lifting and lowering device.

BAG EMPTIER

The bag-emptier hopper is designed to allow the opening, emptying, and controlled handling of bags containing pharmaceutical powders or granules, ensuring safety, hygiene, and operational continuity.The structure is made of AISI 304/316L stainless steel, with smooth, easily cleanable surfaces, in compliance with GMP regulations. The operator manually places and opens the bag inside a hopper to limit dust dispersion into the environment.The hopper could be equipped with a safety grid and an integrated lump breaker system, which facilitates the breakdown of any agglomerates, improving material flowability and homogeneity. The product is then conveyed to the dosing, transfer, or mixing line.





DOSING SYSTEM

The **DOSING SYSTEM** allows the discharge of the product in a closed cycle drum. It is composed of an electronic weighing system and a DOUBLE VALVE. The vane of the latter transfers a large quantity of product while the rotor allows the achievement of the required accuracy.



BIG-BAG

The **BIG BAG EMPTIER** is a dosing system which allows the transfer of product from a big bag into a drum or into a continous liner.
It works by gravity, avoiding dust dispersion.
Ergonomic and easy-to-clean, the system features a high precison in dosing, repeatability and automation of process. The big bag discharger will not leave swarfs or shavings. This is a crucial factor when losing a minimum rate of product can be expensive.



STERI LIFT

The **STERI LIFT** is indicated to move bins, drums or bags in sterile rooms.
It is completely hydraulic with an FDA approved cylinder that allows the lifting and rotation, vertically and horizontally, around the axis of any type of container.



DUK SYSTEM

The CO.RA. **DUK SYSTEM** is a lifting and positioning system both manual and pneumatic and electric. Two versions are available, with fixed base or on wheels.

MINIDUK

The **MINI DUK** is a lifting device, designed and manufactured by CO.RA. for lifting and handling loads such as drums, pneumatic conveyors, agitators, with a maximum weight of 70 kg. The machine is made with the necessary precautions to be used in pharmaceutical and food environments. The system is completely made in AISI 304 and designed according to the European reference standards for lifting loads. It is ideal for use in sterile environments and is in compliance with cGMP recommendations (Current Good Manufacturing Practice).





MOBILE DRUM TILT

The **MOBILE DRUM** Tilt system has been designed and built for loading drums into rear-loading isolators. The system is mobile and can be easily moved between workstations, equipped with wheels—two of which are swivel casters with brakes—to allow the operator to maneuver the Mobile Drum Inverter across different areas.
Its main strength lies in its ease of use. The drum is secured to the Mobile Drum Tilt using an interchangeable strap clamp suitable for different drum types. The operator, using the onboard controls, inverts the drum and positions it into the loading port of the isolator. Once the discharge is complete, the process is reversed to handle the next drum. Additionally, the system is equipped with an integrated mill for crushing the discharged product.

SIL COMP

The **SIL COMP** compensator is used to align two machines and to absorb vibrations.





TABLET RECOVERY SYSTEM

The **TABLET RECOVERY SYSTEM** has been designed to recover tablets that, during manufacturing process, have been rejected as broken or imperfect, and this means that discarding big quantities of product increase notably expenses for pharmaceutical industry.

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