

TECHNOSHIELD

We are what we do repeatedly. Excellence is not a single act, it is a habit.

- Aristotle (384-322 B.C.)

Ancient Greek philosopher and scientist.



WHO WE ARE

Applicazioni Tecniche (AT) is an Italian **engineering company**, specialized in designing and manufacturing protective systems for the hazardous process industry. Established in 1975, AT has grown to become a global expert and supplier in matter of piping safety.

AT's most remarkable product is Technoshield®.

Technoshield® is the most advanced preventative control system able to minimize spray-out energy and chemical fluids as well as maximize personnel and environmental safety. Relying on highly specialized technical staff and cutting-edge prototyping department, AT is now partner of world leading international companies.

OUR VISION

Utilize Technoshield® in all the major international process companies in order to provide the most outstanding level of **safety** against hazardous fluid sprays.

OUR MISSION

Create **excellence** in products and custom-made solutions in order to establish safety in hazardous process plants.

OUR VALUES

Care for customer needs, passion for our work, and research and innovation on the best **quality** of the materials we use.

TECHNOSHIELD'S BENEFITS



PERSONNEL PROTECTION



LEAKAGE MONITORING



ENVIRONMENTAL CONTROL



PLANT RELIABILITY



AVOID RISK AND ENHANCE SAFETY

Process Industry is evolving rapidly.

Workplace **safety regulation** now requires special attention to dangerous fluids in order to keep plant personnel away from any harm.

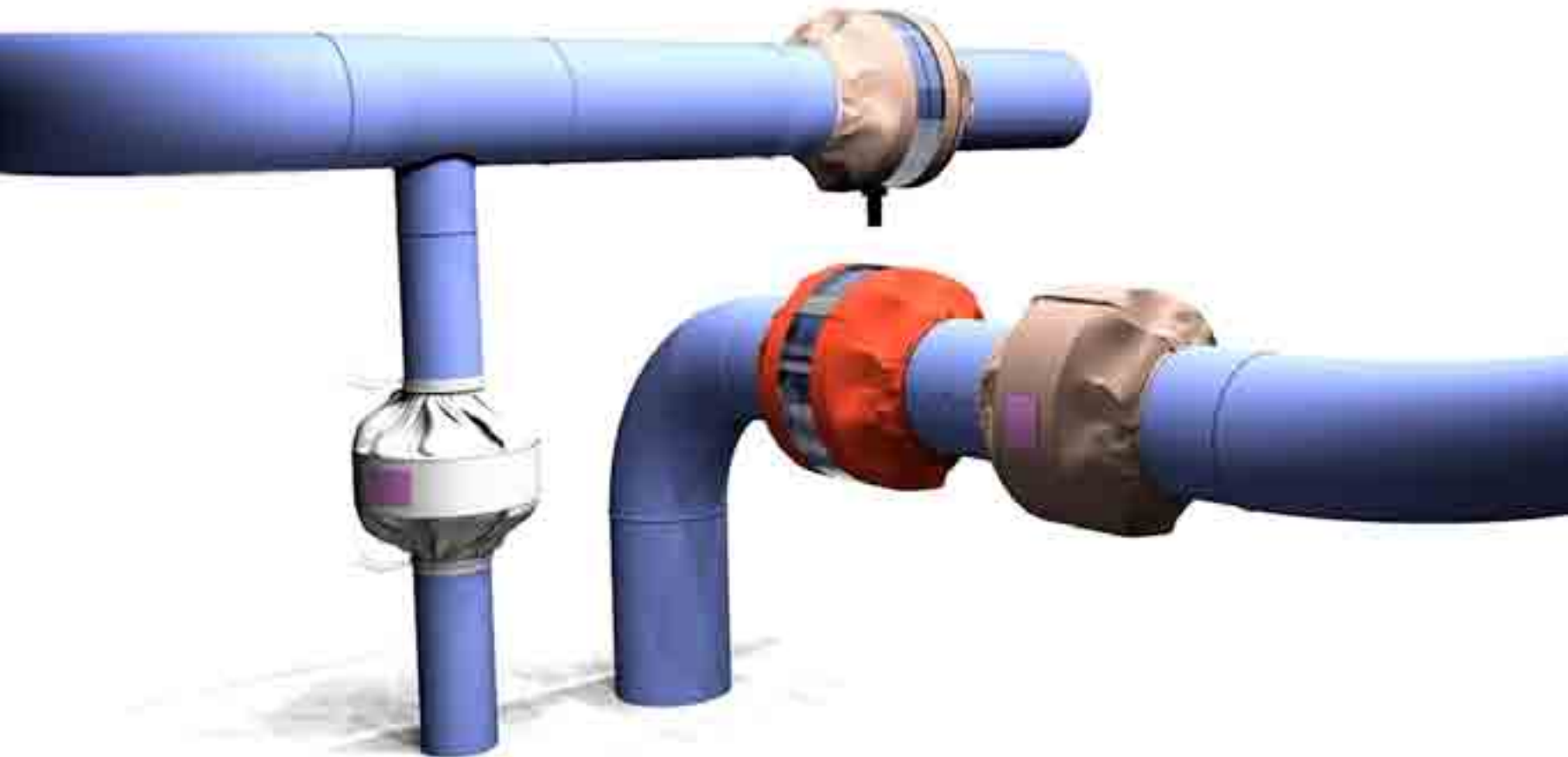
Safety relies heavily on flange sealings to avoid fluid spray-outs. There are multiple variables involved in effective tightness; therefore, sealing itself is not always enough to avoid the risk of leakage and contamination.

Unforecasted spray-outs may have a colossal social and economical **impact on plant management**. Some of the risks involved are:

- injuries to personnel;
- environmental pollution;
- fires and explosion;

Technoshield®, by means of leakage monitoring, is a new system that drastically reduces contamination and harmful impact on people as well as on the environment.

TECHNICAL FABRICS



FABRIC TECHNOSHIELDS®

The standard Technoshield® fabric products use multiple layers of high performance fabrics to be wrapped around flanges. Fixation is guaranteed by high endurance tightening cords.

The Technoshield® fabric is scientifically researched and technically tested to be **thin, resistant**, and outstandingly **safe**. It resists up to 250°C and has the widest range of resistance to chemicals.

Technoshield® is composed of high endurance fabrics that provide a unique strength against mechanical stresses.

These systems are designed to be suitable both for internal and external environments.

Available materials are:
FG-PTFE, Pure PTFE, PVC, Polyethylene, and Polypropylene.

Optional: leakage visual indicator, drainage, and transparent window.
Other options also available to buyers' specifications.

TECHNICAL METALS





METAL TECHNOSHIELDS®

For **demanding environments** (higher pressure and temperature) solid and metal Technoshield® is the best choice.

Laser machined and fine welded parts.
This metal Technoshields® are the superb result of the **engineering research** of Applicazioni Tecniche's design team.

Optional: drain, closure system, and gasket.
Other options also available to buyers' specifications.





ADDED VALUE WITH TAILOR-MADE SOLUTIONS

Applicazioni Tecniche is capable to provide safety on a variety of shapes and components, delivering the highest standard of safety to the customer's plant.

Over the years, AT has created a specific know-how and database of all the drawings and applications performed on: valves, extra standard flanges, pumps, and a variety of other items.

This allows AT to calibrate its assistance and products to the **specific needs of the customer**.



Innovation distinguishes between a leader and a follower.

- Steve Jobs (1955-2011)

Founder and former C.E.O. of Apple Inc.



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