

The automatic choice.



WITH OVER 50 YEARS' EXPERIENCE IN AUTOMATION TECHNOLOGY, FESTO HAVE LONG BEEN THE AUTOMATIC CHOICE FOR AUTOMATION SOLUTIONS IN THE CHEMICAL AND PETROCHEMICAL INDUSTRIES. BUT THEY ARE NOT ONLY A SAFE CHOICE IN EVERY SENSE OF THE WORD. THEY'RE ALSO A QUALITY CHOICE – WHETHER YOU ARE PRODUCING PETROCHEMICALS, BASIC, FINE OR SPECIALITY CHEMICALS, OR YOU'RE AN END USER OR OEM.

Qualified experts in 57 national companies in over 176 countries demonstrate Festo's comprehensive involvement in – and acceptance by – the various industries in which it works. But even so, the company doesn't rest on its laurels. Instead, it invests 7.5% of turnover in continuing research and development, to ensure that Festo automation solutions don't just keep pace with, but set the pace for, the chemical and petrochemical industries.

The safe choice

There are few operating environments more hazardous than in the petrochemical industry – yet even in these conditions the highest standards of process reliability are expected. Hardly surprising, when you consider the exceptionally high costs of an unplanned shutdown of an otherwise continuously operating system.

The harmful environmental influences encountered within the industry include wildly fluctuating temperatures, high levels of moisture, corrosion, and potentially explosive atmospheres. So all Festo products and system solutions for use in petrochemicals are specifically designed

for these environmental and operating conditions – to maximise productivity, minimise downtime, and enhance system efficiency.

Quality, quantity and economy

Systems for producing large quantities of chemical base materials vary widely – just like the locations in which they may operate. Out in the open, or inside in corrosive or explosive atmospheres, the equipment needs to be robust, reliable and safe.

In this highly competitive market, it also needs to be an economical choice: in terms of purchasing costs and Total Cost of Ownership.

Festo's range of products for basic chemistry – for gaseous, liquid or powder products – includes highly corrosion resistant products, and products with explosion protection. Naturally, in such a dangerous operating environment, you would want nothing less, but with Festo you also get more: the assurance of the highest possible quality of processes and products. And of course, the highest possible quality of processes and products.

Adding value

The maxim for fine and speciality chemicals production is nothing less than ultimate quality at all times. Which means that the automation equipment must also be of the highest quality and reliability. There's simply no other way to ensure the very high added value of these continuous processes.

Usually located indoors, the systems are operated in batch mode, covering a wide and varied range of products including colour pigments, liquid crystals, fibres, lubricants, household cleaning products and cosmetics.

Festo's success in this market comes from the high reliability of the product range, and the optimum system availability it provides. However, as in all areas of the chemical and petrochemical industry, safety is also an important consideration, and the Festo range includes products with high corrosion resistance and effective explosion protection.

From builder to user

Festo products in the chemical and petrochemical markets are as trusted by OEMs as end users.

For OEMs – process valve manufacturers, container builders, sensor and pump manufacturers, and suppliers of sub-systems and small system parts – Festo is a valued and reliable partner. With experience in a wide range of processes, a worldwide presence, and extensive expertise in solving automation problems in pneumatics, Festo can help OEMs in these markets to create competitive, effective and reliable equipment.

For end users, the same Festo qualities lead to different – but equally important – benefits. So experience, reliability and expertise mean end users can depend on Festo for systems which operate smoothly and efficiently; for standardised components for ease of purchasing; for products, modules and systems such as complete valves and fittings and preassembled control cabinets; and for plug-and-play equipment.

In addition, Festo's comprehensive offering extends beyond the products themselves to on-site assistance, and consultation and service packages.



Reducing costs, increasing availability

Sophisticated diagnostics and condition monitoring concepts are available from Festo to help reduce system lifecycle costs and provide a more rapid return on investment – together with increased competitiveness.

Transparent, easy to integrate, and forward looking, the Festo diagnostics portfolio includes concepts which guarantee near 100% system availability.

Safety first

The last thing you hope to need, but the first thing you need to consider, is the safety of the products you are choosing.

Festo products conform to a range of safety standards, applicable in a variety of countries, as follows:

- ATEX: Europe, North Africa, Middle East
- FM = Factory Mutual/UL = Underwriter Laboratories: USA
- CSA: Canada
- NEPSI: China
- T.I.I.S.: Japan
- IEC-EX: Australia, New Zealand, South Africa
- GOST: Russia
- Inmetro: South America

Festo products are also designed to be resistant to aggressive media (vapours, acids, oils etc.) and to protect against moisture and foreign body penetration. High-alloy stainless steel and corrosion-protected coatings are also used, together with control cabinets and fittings made of stainless steel, tetrafluorethylene tubing and special sealing and scraper materials for the actuators.

So no matter what explosion protection zones are to be found in your facility, and no matter how unfriendly the operating environment, Festo has suitable conforming products for the entire pneumatic control chain, together with extensive documentation and declarations of conformity.

