

# International **Process** Engineer

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For Engineers... by Engineers

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## SAFETY

in hydraulic hoses

## 3D PRINTING

for the process industry

## Innovation

in pressure regulation

## Sound advice on

occupational noise



## THIS HOSE or THAT HOSE?

Industrial hose is capable of many uses. It conveys air, steam, water, beverages, chemicals and an almost unlimited assortment of other products from A to B. Sometimes transported substances move under great pressure and travel great distances.

When industrial hose and couplings are properly specified for the task, these assemblies perform their function flawlessly. However, the potential hazards of hose assemblies are very real. When we try to get them to do things they were never designed to do, such as running steam through a chemical hose or using cam and groove couplings for air, they fail miserably with sometimes catastrophic results. To avoid potential harm to personnel, site and equipment, and to prevent product loss, Dixon stresses the importance of inspecting all hose assemblies prior to each use.

Hose failures, damaged end fittings and correct hose specification are just a few of the factors an onsite maintenance engineer might have to address on a day-to-day basis. Whether it's the correct hose

required or the right type of coupling for the application, it is often a minefield when it comes to finding a solutions provider with the correct experience you can trust



### Dixon can help you decide which hose best suits your application

As a company with 100 years in the industry, Dixon is often asked the question, "Which hose? This hose or that hose?"

Believe it or not, these customers are the smart ones as they at least question which hose to procure. Many will continue to buy what they always bought without

considering if it is the right hose for the application. Recently Dixon recommended a customer changed from using a hygienic rubber hose to a silicone hose. The result is that although the silicone hose was 50% more expensive, where the rubber hose needed to be changed every other month, the silicone hose has been in use for over eight months! This is a cost saving for the customer, both in terms of downtime and price over the period.

So, where to start with finding out if you need 'this hose or that hose'? Dixon uses an acronym, STAMPED, to help aid the decision-making process. Size: what size and length hose do you require? Temperature: what is the temperature of the media/process? Application: what industry is used in? (Is it used for suction and delivery?). Media: what is the media going through the hose? Pressure: what is the pressure of the media? Ends: what end connections do you require? ■

For more information visit [www.dixoneurope.co.uk](http://www.dixoneurope.co.uk)

## ROBUST ELECTRIC HEATER tarp for large areas

Keeping large areas, tanks or containers at temperature has been a big problem both for the chemical production and in logistics chains. Known examples of this are complete 20 or 40ft containers whose contents have to be stored frost-free over



the entire surface area. The same also applies for IBC tanks and DIN drums that must be kept at temperature as long they remain in intermediate storage until ready for the next production step.

These tarps from Hillesheim are particularly suitable for frost protection and for heat retention in pre-warmed materials in a range of up to 60 °C. Both the inside and the outside covers of the heater tarp are made of tear-proof, washable, polyester fabric. Another big advantage is that the tarps can be applied and removed rather quickly by untrained personnel.

The shape of the tarp can be adapted and fabricated per customer specification to fit on any surface or container. Openings in the tarp for drain cocks or



filler necks, for example, can also be accommodated.

The tarps meet IP65 protection requirements. For power up to 500W per m<sup>2</sup>, the main connection can be made with a normal 230V or 400V outlet plug. ■

For more information visit [www.hillesheim-gmbh.de](http://www.hillesheim-gmbh.de)