

## PRESS RELEASE

### Safety clamp and pressfitting systems for externally corrugated spiral hoses

#### Innovative clamp systems for any application

NORRES, one of the leading hose manufacturer based in Gelsenkirchen (Germany), has just brought two innovative products onto the market. Following the huge success last year of its first safety clamp system for thick-walled polyurethane spiral hoses for loading and unloading silo vehicles, the NORRES product range has now been extended with two new clamp systems for heavy and super-heavy, externally corrugated spiral hoses. The CONNECT Pressfitting System 232 is predestined for the food, pharmaceutical and chemical industries, while the CONNECT Safety Clamp System 231 is intended for industrial applications, for example in plastics production.

In the past, hose clamps were used to connect externally corrugated spiral hoses to adapters for all kinds of application. Under high pressure, however, this inevitably entails a risk that the adapter could become displaced or the system gradually lose its tightness.

The NORRES Schlauchtechnik R&D department has now come up with a special, threaded sealing insert that is adapted to the outer hose contour and assembled between the hose and the shell or pressing sleeve. The connection formed when the shells are clamped or the sleeves pressed together is remarkably tight. In the case of the pressfitting system, users additionally profit from connections without any clearance spaces. Both these innovative systems are designed with a form-locking groove and a form-locking bar. The resulting high tensile strength ensures that the adapter is securely held in the spiral hose even under considerable pressure.

Furthermore, the hose's metallic insert is exposed and contacted with the adapter when the systems are assembled. Clamping the shells or pressing the sleeves together creates a secure connection capable of electrostatic discharge.

## **PRESS RELEASE**

### **Gentle and secure material transport**

Industrial hose clamp systems have to be designed for extreme conditions: such systems must resist mechanical stresses, withstand high pressure and be easy to handle. The NORRES CONNECT Safety Clamp System 231 has a special, threaded sealing insert that is adapted to the outer hose contour. The system is consequently explosion proof and the clamp shells are suitable for reuse. In addition to this, the shells are made of aluminium, which means they are quick and easy to fit. The system is vibration-resistant, odourless and tasteless, resistant to microbes and hydrolysis, and softener and halogen-free. It can be used in conjunction with the AIRDUC® 355 and 356 profile hoses for pellet suction and transport on pellet conveying systems in the plastics industry as well as for loading and unloading silos and assorted other applications with a high throughput of media like powder or pellets. The polyurethane employed for the sealing insert is food-quality and complies with the regulations of the American Food and Drug Administration (FDA 21 CFR 177.2600 and 178.20) plus the equivalent European Directives (2002/72/EC and 2007/19/EC).

### **Food-quality: CONNECT Pressfitting System 232**

The CONNECT Pressfitting System 232 was specially developed by NORRES for use in the food, pharmaceutical and chemical industries. The system - comprising a stainless steel pressing sleeve and a sealing insert made of special premium polyurethane - is leak-proof and easy to clean with no clearance spaces. The compatible AIRDUC® PUR 355 MHF and 356 MHF hose types, either with or without a stainless steel helix, have been approved by an independent testing laboratory and the complete hose meets the requirements laid down for food and pharmaceutical applications in EU Directive 2002/72/EC, including the latest amending Directive 2007/19/EC. The pressed fittings can be supplied in two different stainless steel qualities (1.4301 and 1.4404) for these two target industries.

The batch number, the article number and the manufacturer's name are printed on the system to help users keep a check on the recommended maintenance intervals and avoid confusion or delays when ordering spare parts.

## **PRESS RELEASE**

### **Abrasion-resistant connection**

The AIRDUC® PUR 355 MHF and 356 MHF polyurethane hoses, which can be supplied with or without a stainless steel helix, have an abrasion resistance five times better than rubber. They are transparent, extremely flexible and resistant to chemicals.

Food products such as grain, potato starch, sugar, vegetables, cheese, salt or chocolate, chemical powders and pharmaceutical tablets can be transported through the connection without any problems.

The clamp systems are offered with a diameter of 25 to 100 mm. The system connections are compatible with the AIRDUC® 355 and 356 profile hoses. In future, it will also be possible to connect the high-temperature AIRDUC® 355 and 356 HT types, which can be used for short periods at temperatures up to +150°C, as well as the electrically conductive AIRDUC® 355 and 356 EL.

Finally, many popular coupling and connection solutions, such as milk tube, aseptic, TriClamp, Kamlok, Storz or tank truck couplings and fixed or loose flanges, can be connected quickly, easily and securely.

### **Photo:**

- CONNECT Safety Clamp System 231 and CONNECT Pressfitting System 232

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