



HOSES FOR AGRICULTURE

YOUR SPECIALIST FOR HOSES IN AGRICULTURE

Flexible hoses have been associated with a number of applications and machinery for the agricultural industry. The Schauenburg Hose Technology Group is serving the agricultural industry since many years, providing solutions for both end use applications and machinery (OEMs). In the following pages you will find our most popular solutions for the key applications in the agricultural industry. If you require more details on a product, or are not sure of which product to select, our sales team will be happy to assist you.

SLURRY SPREADING

No fertilizer, no yield. In order to keep the nutrient content in the soil at a stable level and thus ensure good and even plant growth, fertilisation is essential. Following years of development and experience gained with our cooperation with OEMs specialised in the slurry application, we can supply you with complete sets of hoses for dribble bars and trailing shoes.



DOUBLEFLEX® AGRI



Properties and Applications

Hose specially designed for slurry distribution systems with a patented double spiral construction, offering an extreme flexibility, increased wear resistance against external friction, and a kink free small bending radius compared to standard hoses for this application. All materials used for the spiral and wall are UV resistant to prevent degradation during long-term exposure to sunlight. Wall is made from specially formulated material for an increased resistance to low temperatures.

Structure

Soft-PVC, green transparent UV resistant with rigid PVC helix, white and a second UV resistant external helix, white

Temperature Resistance
- 40°C up to + 50°C

APDatec 105



Properties and Applications

Light duty hose for slurry distribution systems and dribble bars, highly flexible even at very low temperatures. Made of UV resistant material to prevent degradation on long term exposure to sunlight. The smooth internal surface allows for high flow rate and the smooth external surface allows an easy installation on dribble bar systems.

Structure

Soft-PVC, green with rigid PVC helix, white

Temperature Resistance
- 20°C up to + 50°C

FLEXACIER® SUPER EXTRA UV



Properties and Applications

Specially designed steel wire reinforced hose for slurry injector systems featuring an innovative PVC coated spring steel wire for a perfect bonding of the wire to the PVC wall, preventing the damaging of the hose from the wire cutting through the wall. Additionally the PVC coated wire provides a supplementary protection against corrosion. Extra flexible wall with UV resistant material, smooth inner bore and outer surface.

Structure

Soft-PVC, transparent with PVC coated spring steel wire

Temperature Resistance
- 30°C up to + 50°C

FLEXACIER® EXTRA UV



Properties and Applications

Medium duty and flexible suction and delivery hose with galvanized spring steel wire and a low shore hardness PVC wall for an excellent flexibility under low temperatures. Smooth inner bore and outer surface with a UV protection, ideal for slurry injector systems.

Structure

Soft-PVC, transparent with galvanized spring steel wire

Temperature Resistance
- 30°C up to + 50°C

DOUBLEFLEX® PUMP V



Properties and Applications

Medium duty suction hose featuring a patented double spiral construction for increased vacuum resistance with a lower weight. Used as the main supply hose to the dribble bar system. The patented double spiral, provides a full protection of the wall of the hose to puncture and dragging. The surface slides perfectly on the floor thanks to the external spiral that allows to the operators an easy manipulation of the hoses in use. External spiral and wall with UV resistance for a longer service life.

Structure

Soft-PVC, green UV resistant with rigid PVC helix, white, and a second UV resistant external helix, white

Temperature Resistance
- 30°C up to + 50°C

APDatec 144



Properties and Applications

Medium duty hose with a PVC/NBR blended wall for an increased flexibility and resistance to extreme low temperatures. Slightly corrugated surface for easy installation, ideal as filler hose on slurry tank systems or as supply hose to slurry dribble bars.

Structure

PVC-NBR compound, silver with rigid PVC helix, white

Temperature Resistance
- 40°C up to + 50°C

Optional

With external spiral for increased abrasion protection when dragging

VIDASPIR S



Properties and Applications

Heavy duty suction hose for filling slurry tanks, ideal solution where increased vacuum resistance is needed, e.g. for suction of thicker slurry. Smooth bore for increased flow rate and smooth outer surface for easy installation.

Structure

Soft-PVC, grey reinforced with rigid PVC helix, white

Temperature Resistance
- 25°C up to + 50°C

Optional

Medium duty, super elastic

APDatec 105ST



Properties and Applications

Light duty, rigid end hose for dribble bars in slurry distribution systems. Due to its structure and materials used, the hose will remain straight, ensuring a defined distance between the discharge lines. Available in fixed lengths of 600 mm, 800 mm, 1.000 mm.

Structure

Rigid-PVC, green with rigid PVC helix, white

Temperature Resistance
- 5°C up to + 60°C

SEEDING

We offer an extensive range of highly abrasion resistant Polyether-Polyurethane (PU) hoses, also with antistatic or electrically conductive material for conveying seeds through pneumatic seed drill machines. Alternatively, we can offer more economical solutions with PVC-based hoses - using advanced compounds blended with nitrile rubber (NBR), or with abrasion resistant inner layer made of Polyurethane. We also offer hoses made of steel wire reinforced PVC hoses for gravity systems.



SMARTFLEX® 0.4



Properties and Applications
Light weight and very flexible Polyurethane hose, compressible with 0,4 mm wall thickness, for suction of dusts and small particles, hydrolysis and microbe resistant, antistatic (R<10⁹ Ohm), flame retardant.
Structure
Polyether-Polyurethane, transparent with spring steel wire
Temperature Resistance
- 40°C up to + 100°C
(short term up to + 125°C)

SMARTFLEX® 0.7



Properties and Applications
Medium weight and flexible Polyurethane hose with 0,7 mm wall thickness, smooth bore, for seed drill machines, transport of grain, hydrolysis and microbe resistant, antistatic (R<10⁹ Ohm), flame retardant.
Structure
Polyether-Polyurethane, transparent with spring steel wire
Temperature Resistance
- 40°C up to + 100°C
(short term up to + 125°C)

SMARTFLEX® 1.0



Properties and Applications
Medium weight and flexible Polyurethane hose with 1,0 mm wall thickness, smooth bore, for seed drill machines, convey of grain or fertilizer, hydrolysis and microbe resistant, antistatic (R<10⁹ Ohm), flame retardant.
Structure
Polyether-Polyurethane, transparent with spring steel wire
Temperature Resistance
- 40°C up to + 100°C
(short term up to + 125°C)

SMARTFLEX® 1.4



Properties and Applications
Medium weight and flexible Polyurethane hose with 1,4 mm wall thickness, smooth bore, for seed drill machines, conveying grain or bulk material, hydrolysis and microbe resistant, antistatic (R<10⁹ Ohm), flame retardant.
Structure
Polyether-Polyurethane, transparent with spring steel wire
Temperature Resistance
- 40°C up to + 100°C
(short term up to + 125°C)

SMOOTHFLEXX X-TRA PU MHR



Properties and Applications
Medium weight and very flexible hose for seed drill machines for transfer of grains, abrasion resistant, microbe- and hydrolysis resistant, with smooth inner bore for maximal flow rate, outer convoluation allows bore to stay in shape even when bent.
Structure
Polyether-Polyurethane, transparent, with rigid PVC helix, black
Temperature Resistance
- 30°C up to + 80°C
Optional
With copper wire for grounding

SMOOTHFLEXX PRO PU EL X-TRA MHR



Properties and Applications
Medium weight and flexible PU hose with a 1 mm wall thickness, electrically conductive (R ≤ 10⁴ Ohm) recommended for Industry 4.0 seeders as the electrical charges created during the transfer of the seeds are electrically dissipated and will not harm electronic sensors or controllers. Abrasion resistant, microbe and hydrolysis resistant. An extreme inner smooth bore for maximal flow rate and an outer convoluation allowing bore to stay in shape even when bent.
Structure
Polyether-Polyurethane, black, with rigid PVC helix, black
Temperature Resistance
- 30°C up to + 80°C
Optional
With copper wire for grounding

FLEXADUX® P 7 L PU EL



Properties and Applications
Medium weight and flexible PU hose with a 0.7 mm wall thickness, electrically conductive (R ≤ 10³ Ohm). Smooth bore, with very good abrasion, microbe and hydrolysis resistance. Recommended for Industry 4.0 seed spreaders as the electrical charges created during the transfer of the seeds are electrically dissipated and will not harm electronic sensors or controllers.
Structure
Polyether-Polyurethane, black with spring steel wire
Temperature Resistance
- 40°C up to +100°C
Optional
With 1.4 mm wall thickness

APDatec 124



Properties and Applications
Light duty PVC hose with PU inner layer. The hose combines the vacuum resistance of a PVC suction hose with the abrasion resistance of a PU hose and a smooth internal wall for a maximal flow rate.
Structure
PVC grey, with a Polyester-Polyurethane inner layer and rigid PVC helix
Temperature Resistance
- 5°C up to + 60°C
Optional
With copper wire

MONOFLEXX EXTRA UV



Properties and Applications
Specially designed for dry conveying of seeds and grains in primary, secondary and tertiary air seeder lines. Transfer of liquid solutions, wherever a good flexibility is needed even at low temperatures. Increased weathering resistance due to specially designed UV resistant material.
Structure
Soft-PVC, transparent UV resistant, with rigid PVC helix, black
Temperature Resistance
- 40°C up to + 60°C

SERIE 3 PVC SX UV



Properties and Applications
Medium weight and flexible PVC ducting for seeding machines, with increased wall thickness (depending on the diameter) allows a higher wear resistance. Increased weathering resistance due to specially designed UV resistant material.
Structure
Soft-PVC, transparent with rigid PVC helix, black
Temperature Resistance
- 5°C up to + 60°C
Optional
With PVC NBR compound for increased flexibility and wear resistance

FLEXACIER® STD IND



Properties and Applications
Medium duty and flexible suction and delivery hose with galvanized spring steel wire to provide flexibility with a combination of good vacuum and pressure resistance, smooth inner bore and outer surface, ideal for seed distribution by gravity systems.
Structure
Soft-PVC, transparent with galvanized spring steel wire
Temperature Resistance
- 5°C up to + 65°C

FLEXADUX® P1 N light grey



Properties and Applications
Light weight and very flexible PVC ducting for the supply of air to dryers and cyclone systems in seeding and fertilizing machines.
Structure
Soft-PVC, light grey with spring steel wire
Temperature Resistance
0°C up to + 70°C

SPRAYING

From backpack sprayers to boom sprayers, we have the solution for your needs with our vast range of chemical resistant hoses for pesticides. Our product range consists of high-pressure resistant hoses, to delivery hoses or ductings for boom sprayers, made of Polyurethane (TPU).



APDatec 810



Properties and Applications

Multilayer PVC pressure hose for pesticide, fungicide, fertilize solutions and mineral oils for agriculture spraying. 20 bar working pressure/60 bar bursting pressure.

Structure

Soft-PVC, black with Polyester fabric, white

Temperature Resistance

-20°C up to +65°C

Optional

Version with up to 40 bar working pressure/120 bar bursting pressure

SERIE 3 PUR SN



Properties and Applications

Wall made from Ether-based Polyurethane for increased resistance to microbes, hydrolysis and chemicals. Used mainly in crop sprayer machines for vineyards, in black colour for increased resistance to UV.

Structure

Polyether-Polyurethane, black, with rigid PVC helix, grey

Temperature Resistance

-30°C up to +80°C

VACUFLEX® K1H-PU



Properties and Applications

Steel wire reinforcement allows an easier bending, Ether-based Polyurethane wall of 0.5 mm for increased resistance to microbes and hydrolysis and high resistance to chemicals. Used mainly in pulverising machines for vineyards.

Structure

Polyether-Polyurethane, black with Polyurethane-coated spring steel wire

Temperature Resistance

-40°C up to +90°C

FLEXX PU 05 MHR AGRI



Properties and Applications

Flexible hose with a steel wire reinforcement encapsulated within an Ether-based Polyurethane wall of 0.5 mm for increased resistance to microbes and hydrolysis and high resistance to chemicals. Used mainly in pulverising machines for vineyards.

Structure

Polyether-Polyurethane, grey with spring steel wire

Temperature Resistance

-40°C up to +90°C

IRRIGATION

A large range of layflat discharge hoses for supply of water to drip irrigation systems or water canons will ensure a spill free irrigation of your land. For lower volumes of water, we can offer standard water hoses, as well as our advanced torsion and kink free Smartflex Garden series. Our team of experts will guide you through the best solution for your application.



OneFlat 18 A



Properties and Applications
Light weight layflat hose fully assembled with Storz-couplings with wire protected by rubber-sleeve for dewatering applications and transfer of water in agricultural installations.

Structure
Woven Polyester fabric, white, with black PVC-coating inside

Temperature Resistance
- 20°C up to + 65°C

Optional
Without Storz Couplings or with EPDM Rubber lining

OneFlat L & M



Properties and Applications
Single or double layer PVC layflats, light duty version (4 bar WP/12 bar BP) or medium duty version (7 bar WP/21 bar BP). Ideal for water discharge or water conduits in drip irrigation systems.

Structure
Soft-PVC, blue with Polyester fabric, white

Temperature Resistance
- 20°C up to + 65°C



Smartflex SMT Premium



Properties and Applications
Premium garden hose for irrigation, featuring advanced SMT anti-torsion, braiding, preventing knots and kinks, and a soft touch surface. Recommended for watering crops, orchards, and greenhouses. Built to withstand outdoor conditions and heavy use, allowing for an easy maneuver around plants and obstacles.

Structure
5-layer Soft-PVC hose with Polyester fabric, grey with green stripes

Temperature Resistance
- 20°C up to + 65°C

Smartflex SMT Comfort – Yellow Edition



Properties and Applications
Innovative garden hose for irrigation, featuring advanced SMT anti-torsion fabric, preventing knots and kinks, recommended for overhead hose carriage/trolley watering systems for greenhouses.

Structure
5-layer Soft-PVC hose with Polyester fabric, yellow with green and silver stripes

Temperature Resistance
- 20°C up to + 65°C

Optional
Also available with integrated GEKA couplings

PleXus AT



Properties and Applications
4 layer garden hose, UV and ozone resistant, free from algae formation, phthalate free, high tenacity polyester yarn with spiralized tricot fabric technology, which actively prevents the hose from twisting. Key features are its light weight, the excellent flexibility even at low temperatures.

Structure
4-layer Soft-PVC hose with Polyester fabric, yellow with red stripe

Temperature Resistance
- 20°C up to + 65°C

PleXus Classic



Properties and Applications
Standard duty garden hose, for irrigation and cleaning applications.

Structure
Soft-PVC, yellow with green stripe and cross-braided Polyester fabric, white

Temperature Resistance
- 20°C up to + 65°C

Optional
With integrated GEKA couplings



BIOGAS TECHNOLOGY

Livestock waste constitutes the most used basis for biogas generation. Through controlled decomposition it can yield good quantities of biomethane. It is an environmentally-friendly way to produce energy and a way to reduce the production of greenhouse gases.



DOUBLEFLEX[®] PUMP



Properties and Applications

Heavy duty suction and delivery hose featuring a patented double spiral construction for increased vacuum resistance. Ideal for the transfer of thicker mixtures like slurry in the supply of biogas installations. The patented double spiral, provides a full protection of the wall of the hose to puncture and dragging. The surface slides perfectly on the floor thanks the external spiral that allows to the operators an easy manipulation of the hoses in use.

Structure

Soft-PVC, blue with rigid PVC helix, white, and a second UV resistant external helix, white

Temperature Resistance

- 40°C up to + 50°C

SPEARFLEX NT



Properties and Applications

Suitable for medium duty suction and delivery of liquids and low abrasion materials compatible with PVC NBR in industry, agriculture, irrigation, water supply, tanker trucks. Increased flexibility coming from the unique spiral design and positioning, allowing also for an easy slide and drag during manipulation while protecting the wall. PVC NBR wall material allows a resistance to extreme low temperatures.

Structure

Soft-PVC/NBR compound, silver grey with rigid PVC helix, black

Temperature Resistance

- 40°C up to + 50°C

FLEXADUX[®] P2 HL



Properties and Applications

Light weight and flexible spiral hose made of PVC-coated polyester fabric for biogas plants, transporting support air, balancing air inside membrane systems, very good chemical resistance, antistatic (R_s10⁹ Ohm), flame retardant acc. to DIN 4102 B1, conform to TRAS 120.

Structure

PVC-coated Polyester fabric, black with spring steel wire

Temperature Resistance

- 40°C up to + 80°C

SERIE 6 PUR M1



Properties and Applications

Light weight flexible ducting made out of polyurethane-coated polyester fabric fire-resistant according to M1 norm, reinforced with spring steel wire for grounding. halogen and softener free. Designed for suction of very hot air, dust, oil and petrol fumes. Excellent flexibility, good abrasion resistance, to be use where fire resistance is required.

Structure

Polyurethane-coated polyester fabric, with spring steel wire

Temperature Resistance

- 40°C up to + 180°C



ALLROUNDER & FARM EQUIPMENT

Agriculture applications are not limited to slurry spreading, seeding and irrigation. Here you can find our hose references for a number of applications that range from general purpose to specific like ventilation, cleaning applications and many more.



SERIE 3 PVC S IND



Properties and Applications
Light weight PVC hose that can be used for several application in agricultural machinery, including spraying, seed machines, air exhaust of silos, fumes or duct and discharging of liquids without pressure.

Structure
Soft-PVC, grey with rigid-PVC helix, grey

Temperature Resistance
- 5°C up to + 60°C

FLEXADUX® P2 A 1000



Properties and Applications
Light weight PVC hose for ventilation in livestock farming or replenishing of carbon dioxide and air circulation in closed areas where air exchange is required, also suitable for drying and heating of tents or mobile constructions.

Structure
PVC-coated polyester fabric, grey with spring steel wire

Temperature Resistance
- 30°C up to + 80°C (short-term up to + 100°C)

VACUFLEX® K1H-TPR



Properties and Applications
Air intake hose for tractors, ventilation hose at higher temperatures, also available with overmolded cuffs for direct fitting to air intake.

Structure
TPR (Thermoplastic rubber), black with Polypropylen-coated spring steel wire

Temperature Resistance
- 40°C to + 135°C (short term up to + 150°C)

Optional
Flame-retardant according to UL 94 V-0

FLEXADUX® PU 1.4 ECO



Properties and Applications
Medium weight and flexible Polyether-Polyurethane ducting with smooth inner surface. The ideal solution for a number of applications in agricultural industry, including animal feeding, grain suction, tea and tobacco processing. Hydrolysis and microbe resistant for increased resistance in humid environments.

Structure
Polyether-Polyurethane, transparent with spring steel wire

Temperature Resistance
- 40°C up to + 100°C (short term up to + 125°C)

Optional
With wall thickness of 0.7 | 2.0 | 2.5 mm

APDatec 10



Properties and Applications
Light duty, multipurpose PVC suction and delivery hose for a number of applications, including pumping, irrigation dewatering, slurry tanks etc.

Structure
Soft-PVC, green transparent with rigid PVC helix, white

Temperature Resistance
- 5°C up to + 60°C

Optional
Green or yellow transparent or clear wall, also as food grade version according the EU 10/2011

OnePressGermany 258



Properties and Applications
Flexible and robust compressed air hose with highly tear-resistant fabric, smooth bore and cover for easy connection or pressing, resistant against mineral oil containing compressed air, kink and abrasion-resistant, weather-resistant with excellent low temperature flexibility, also suitable for rough operating conditions in the field and in industrial applications.

Structure
Styrene Butadiene Rubber (SBR), yellow with blue stripe, with polyester fabric, white

Temperature Resistance
- 20°C up to + 100°C

Optional
Black color with yellow stripe without or with fully integrated Euro couplings

APDatec 81



Properties and Applications
Multi-layer PVC pressure hose with highly tear-resistant polyester fabric, available in variable outer diameters for the same inner diameters to ensure a perfect fit with connectors and fittings.

Structure
Soft-PVC, transparent with Polyester fabric, white

Temperature Resistance
- 20°C up to + 65°C

Optional
With transparent colored wall

APDatec 840



Properties and Applications
Flexible single layer hose made of Soft-PVC for a number of applications including seeding machines, fertilisers or sprayers. Can also be used as a level hose for storage tanks or for light pressure applications. Available in variable outer diameters for the same inner diameters to ensure a perfect fit with connectors and fittings.

Structure
Soft-PVC, transparent

Temperature Resistance
- 20°C up to + 65°C

Optional
Transparent colored wall or in oil resistant version

ACCESSORIES

Accessories to connect your hose to your equipment - directly from our stock. Additionally, we can offer customised solutions for ready to fit hoses coming overmoulded with connection cuffs, couplings or other accessories.



WATER HOSE ACCESSORIES



Large selection of couplings and clamps, fittings, connectors, water guns and accessories to connect hoses to your systems.

PROTECTION SPIRALS



Protection spirals against abrasion, for bundling of cables, hydraulic and other sensitive hoses.

CUSTOMISED SOLUTIONS



Customised solutions can be provided with overmoulded or screwed on cuffs for direct fitting of the hoses on the machinery.

IBC CONTAINERS



IBC Containers of 1000 Liters for rain collection, on wood or steel pallet.

IBC CONTAINER ACCESSORIES

Whether standard click locks or claw couplings or ball valves or outlet spigots. We have an extensive range of accessories for IBC adapters.



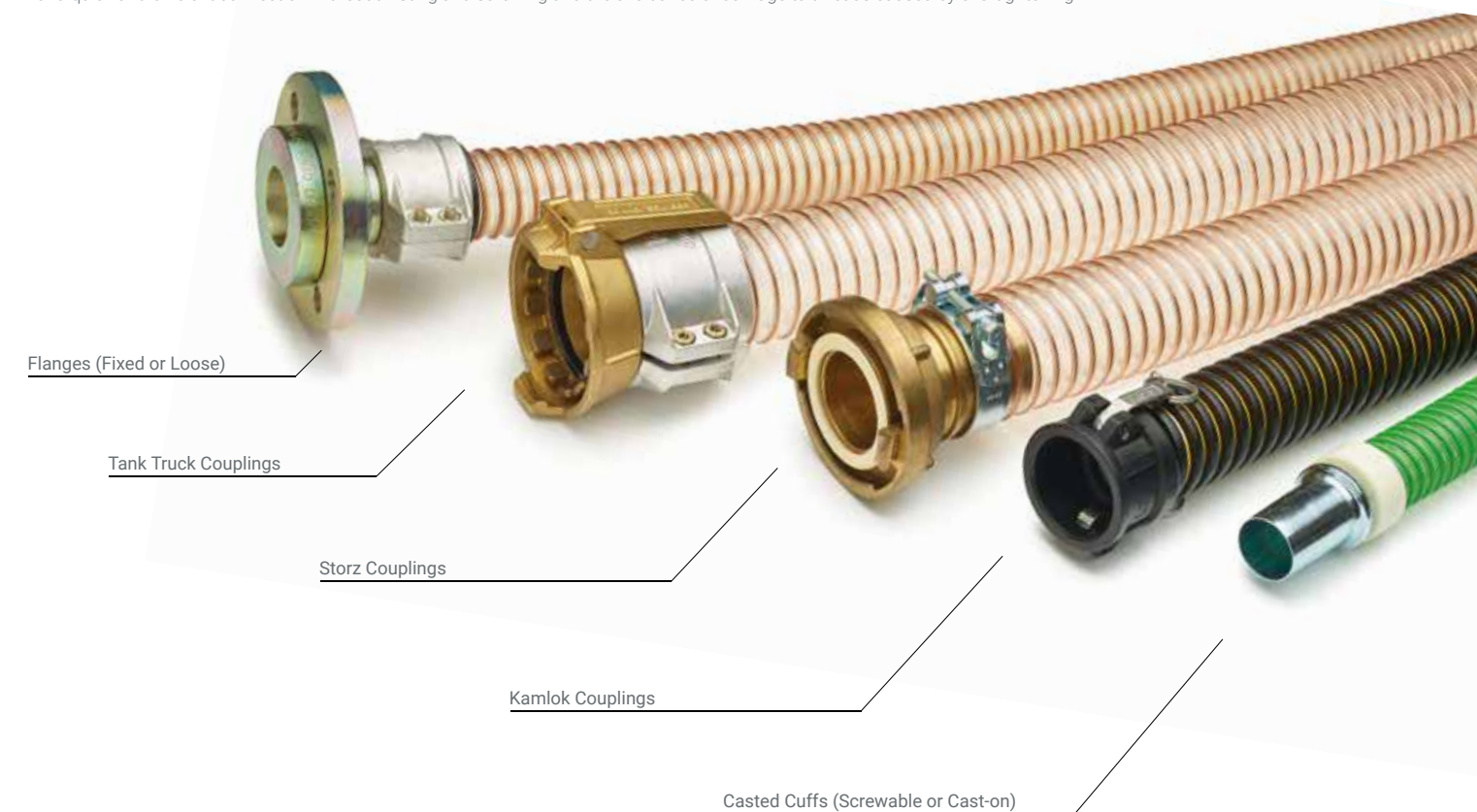
CUFFS & HOSE CLAMPS

Different cuffs, loose, screwed on or firmly welded to the hose and of course a range of different clamps to fix the hoses to the connectors.



PROFESSIONAL QUICK TYPE COUPLINGS

For a quick and efficient connection without twisting and screwing and the avoidance of damage to threads caused by overtightening.



Flanges (Fixed or Loose)

Tank Truck Couplings

Storz Couplings

Kamlok Couplings

Casted Cuffs (Screwable or Cast-on)



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