

VACUFLEX®



Flexible Hoses, Ducting & Assemblies

HOSES FOR THE CLEANING INDUSTRY



Hoses for Steam Cleaners & Spray Extraction Units

VC2-PU



Structure

Light and flexible hose, made of Premium TPU Ether with an embedded heat resistant rigid plastic helix

Application

Hose for commercial and industrial steam cleaners

Temperature

-40°C up to +125°C

ID

8mm to 51mm

Options

also available in ECO

K1H-TPR



Structure

Light and flexible hose series, made of TPR (TPV - Thermoplastic rubber), black with spring steel spiral reinforcement

Application

Hose for industrial steam cleaners and for any other steam and vapour recovery application (pressure-less)

Temperature

-40°C up to +135°C

ID

10mm to 308mm

Options

also available in flame-retardant version, according to UL94-V0

K1H-PU-EI



Structure

Very durable and flexible hose, with inside channel for 12V/230V cable or tubing, made of TPU Ether, grey with spring steel wire reinforcement

Application

For high-end vacuum cleaners to support a floor nozzle with an electrically driven motor brush

Temperature

-40°C up to +90°C/+125°C

ID

30mm to 51mm

Options

none

TWINFLEX PU



Structure

Very durable and flexible hose, double walled, made of TPU Ether, with integrated tubing and spring steel wire reinforcement

Application

For domestic or industrial steam cleaners and spray extraction floor cleaning machines

Temperature

-40°C up to +90°C/+125°C

ID

32mm

Options

also available in ECO



Hoses for Commercial & Wet/Dry Vacuum Cleaners

VSM-S02 / VSM-L-S02



Structure
Self supporting light duty profile hose, made of modified TPO (Thermoplastic Polyolefin), black, crush proof

Application
Vacuum hose for basic industrial vacuum cleaners

Temperature
-50°C up to +60°C

ID
19mm to 70mm

Options
also available with coloured protection shoulder

VSM-S01



Structure
Self supporting light duty profile hose, made of modified TPO (Thermoplastic Polyolefin), silver metallic, crush proof

Application
Vacuum hose for domestic vacuum cleaners

Temperature
-50°C up to +60°C

ID
13mm to 70mm

Options
also available with coloured protection shoulder / customized colours

VSM-A



Structure
Self supporting profile hose, made of an anti-static modified TPO, surface resistance $\leq 10^9$ Ohm, black, crush proof

Application
Vacuum hose for semi-professional industrial vacuum cleaners and for power tools

Temperature
-50°C up to +60°C

ID
25mm to 80mm

Options
also available with coloured protection shoulder

VSM-EL



Structure
Self supporting profile hose, made of electro conductive TPO, surface resistance $\leq 10^6$ Ohm, black, with protection shoulder, crush proof

Application
Vacuum hoses for professional industrial vacuum cleaners - also for ATEX zones

Temperature
-50°C up to +60°C

ID
27mm to 50mm

Options
also available with coloured protection shoulder



Hoses for Industrial Automatic Scrubbers

MG-V-FLEX



Structure

Flexible hose, made of Premium Soft-PVC, ribbed wall for better gliding, black and a PVC coated spring steel spiral (Orthophthalate-free)

Application

Economical hose for industrial automatic scrubbers (for the suction at squeegee or water tank recovery)

Temperature

-10°C up to +70°C

ID

25mm to 50mm

Options

also available in stretchable version without rib structure

VAT Elastic



Structure

Flexible hose with double layer Premium PVC, black, with yarn reinforcement and with PVC-coated spring steel wire (Orthophthalate-free)

Application

Multipurpose hose for industrial automatic scrubbers (for the suction at squeegee or water tank recovery)

Temperature

-10°C up to +85°C

ID

25mm to 102mm

Options

none

K1H-PU



Structure

Very durable and very flexible hose, made of TPU Ether, black, oil resistant, with Polyurethane-coated spring steel wire

Application

Professional hose for scrubbers (for the suction at squeegee or water tank recovery) and steam cleaners

Temperature

-40°C up to +90°C / +125°C

ID

8mm to 308mm

Options

also available in ECO or with UL certification

K1H-PU-ECO-MAX



Structure

Very durable and very flexible hose with outside convoluted tape, made of TPU Ether, black, oil resistant, with steel wire

Application

For high end vacuum or steam cleaners and professional industrial scrubbers (squeegee and tank recovery)

Temperature

-40°C up to +90°C / +125°C

ID

8mm to 308mm

Options

none



KD-PU Stretch



Structure
Stretchable hose which can be extended up to 4x of its relaxed length, made of TPU Ether with Polyurethane coated spring steel wire

Application
Suitable for automatic scrubbers, domestic and industrial vacuum cleaners

Temperature
-40°C up to +90°C/+125°C

ID
29mm to 51mm

Options
also available in PVC with stretch ratio up to 1:6

KD-PU Semi-Stretch



Structure
Semi-stretchable/compressible hose which can be extended and compressed up to 2x of its relaxed length, made of TPU Ether and steel wire

Application
Suitable for automatic scrubbers, domestic and industrial vacuum cleaners

Temperature
-40°C up to +90°C/+125°C

ID
29mm to 51mm

Options
none

VC2-PU Transparent



Structure
Light and flexible hose, made of Premium TPU Ether with an embedded rigid plastic helix, fully transparent

Application
Hose for fresh water tank recovery with integrated water level indication option

Temperature
-20°C up to +80°C

ID
13mm to 51mm

Options
also available with orange ball as water level indicator

Flexacier® LT/STD



Structure
Flexible hose, made out of food grade PVC, transparent with galvanized spring steel wire (Class A/B/C - EU 10/2011) (Orthophthalate-free)

Application
Hose for any kind of liquids - incl. solutions or alcohol up to 20% - also for water level indication

Temperature
-5°C up to +65°C

ID
10mm to 102mm

Options
also available in PVC version for alcohol up to 50% or in PVC-ECO quality



Flow Control Cuffs & Assemblies

Flow Control Cuffs - 2nd Generation



Standard over-moulded or screw-on cuffs with bayonnetted cap assemblies for flow control by squeezing - used for automatic scrubbers - in 38 or 50mm

Flow Control Cuffs - 3rd Generation



Latest generation of over-moulded cuffs with quick screw type cap assemblies for flow control by squeezing - used for automatic scrubbers - in 38 or 50mm

Customized Flow Control Cuffs



Customized over-moulded cuffs with cap assemblies for flow control by squeezing - mainly used for automatic scrubbers - in 38/50/63/76mm possible

Flow Control Hose-Valve Assemblies



Combination of over-moulded hoses with outside threaded cuffs and assembled ball valves for flow control at tank recoveries of scrubbers - in 25/32/38/50/63/76mm possible



Hoses for Industrial Vacuum Cleaners & Street Cleaners

SMOOTHFLEX PU C IND



Structure

Smoothbore and very flexible hose, made of ECO friendly TPU Ether, oil resistant, transparent with rigid PVC helix

Application

Suitable for suction of abrasive particles, granules, dust, oily particles - also for outside use

Temperature

-30°C up to +80°C

ID

20mm to 300 mm

Options

also available with 1,0 / 1,4 or 2,0mm wall and with additional grounding braid

SMOOTHFLEX PU FOOD



Structure

Smoothbore and very flexible hose, made of food grade TPU Ether (FDA), transparent with rigid PVC helix (Class A/B/C/D1/D2/E - EU 10/2011)

Application

Suction of abrasive particles, granules, dust, oily particles - especially in the food and pharma industry

Temperature

-30°C up to +80°C

ID

20mm to 300 mm

Options

also available with 1.0 mm wall with 1.0 mm wall

SMOOTHFLEX PU FOOD ANT



Structure

Construction like SMOOTHFLEX PU FOOD, but with additional copper braid along the helix to be grounded at both hose ends (strongly recommended) to avoid static charges

Application

Suction of abrasive particles, granules, dust, oily particles - especially in the food and pharma industry

Temperature

-30°C up to +80°C

ID

20mm to 300 mm

Options

also available with PU Ether ECO and/or in 1,0 / 1,4 / 2,0mm wall thickness

Serie 3 PVC S UL94-V0



Structure

Flexible and light duty ducting made out of flame retardant PVC (UL94-V0) with rigid PVC helix, grey (Orthophthalate-free)

Application

Suction of air, fumes and dust, discharging of liquids without pressure

Temperature

-5°C up to +60°C

ID

16mm to 300mm

Options

also available without UL94-V0 properties



PU 400 / 600 C ECO



Structure

Light and very flexible hose, made of ECO friendly TPU Ether (0,4 or 0,6mm wall), oil resistant, transparent with steel wire, compressible

Application

Suction and conveying of abrasive particles and granules or oily dust - also for outside use

Temperature

-40°C up to +100°C

ID

25mm to 600mm

Options

also available in flame retardant and/or permanently antistatic

PU 7 / 1.0 / 1.4 C ECO



Structure

Medium heavy duty flexible hose, made of ECO friendly TPU Ether (0,7/1,0 or 1,4mm wall), oil resistant, transparent with steel wire, smooth bore

Application

Suction and conveying of abrasive particles and granules or oily dust

Temperature

-40°C up to +100°C

ID

25mm to 600mm

Options

also available in flame retardant and/or permanently antistatic

PU FOOD Series



Structure

Flexible hose series, made of food grade TPU Ether (FDA) with copper coated spring steel wire or stainless steel wire - (Class A/B/C/D1/D2 and E - EU 10/2011)

Application

Suction of abrasive particles, granules, dust, oily particles - especially in the food and pharma industry

Temperature

-40°C up to +100°C

ID

25mm to 800mm

Options

available in 0,4 / 0,7 / 1,0 / 1,4 / 2,0mm wall thickness and also permanently antistatic

P7 L PU EL / P7 M PU EL



Structure

Flexible hose, made of conductive TPU Ether (0,7 or 1,4mm wall), surface resistance $\leq 10^4 \Omega m$, black with steel wire - for ATEX & TRGS 727

Application

Conveyance of abrasive materials, transport of granules, for hazardous areas (ATEX)

Temperature

-40°C up to +100°C

ID

25mm to 500mm

Options

available in conductive Polyethylene (PE-EL)





Hoses for Water Delivery & Sprayers

Monolayer Series



Structure

Mono extruded hose, made of Premium food grade PVC, transparent (Class A/B/C - EU 10/2011) (Orthophthalate-free)

Application

Hose for any kind of liquids - incl. solutions or alcohol up to 20% - also for water level indication

Temperature

-20°C up to +65°C

ID

4mm to 90mm

Options

also available in industrial, oil or fuel resistant version

Yarn Reinforced Series



Structure

Multilayer hose, made of Premium food grade PVC transparent, polyester yarn reinforcement, (Class A/B/C - EU 10/2011) (Orthophthalate-free)

Application

For transport of liquids, or for air-pressure, in the food, chemical and other industries

Temperature

-20°C up to +65°C

ID

4mm to 50mm

Options

also available in industrial, oil or fuel resistant version

High Pressure Series



Structure

Multilayer pressure hoses for 20/40/80 bar working pressure, made of PVC, polyester yarn reinforcement, black or blue (Orthophthalate-free)

Application

Hoses for sprayers

Temperature

-20°C up to +65°C

ID

6mm to 25mm

Options

none

SMARTFLEX SMT



Structure

Unique 5 layers premium water hose with patented SMT polyester mesh reinforcement, no kinking, no twisting, torsion free (Orthophthalate-free)

Application

Professional hose for water supply and water filling systems

Temperature

-15°C up to +65°C

ID

13/19/25mm

Options

none



Standard Screw-type Cuffs and Couplings & Standard Cuffs Directly Over-Moulded

Straight Cuffs



Standard screw type cuffs with standard thread for different kind of flexible hoses for an easier connection - also available with closure cap

Swivelling Cuffs



Standard swivelling cuffs with a VSM thread - available as male or female solution

Couplings



Screw type couplings to connect flexible hoses to expand total working length - with standard thread on both ends

Couplings with Outlet



Standard screw type cuffs with a standard thread and an outlet; for different kind of flexible hoses - mainly used for pneumatic power tools in combination with vacuum cleaners

Straight Cuffs with Clamp Section



Straight over-moulded cuffs with hose clamp section for an easier assembly and tightening combination with regular worm drive hose clamp

90° Elbow Cuffs



Over-moulded elbow cuffs for easy connections where small bending radiuses are required - also available with clamp sections

Straight Cuffs with Outside Thread



Straight over-moulded cuffs with standard external threads for an easier connection to tanks with a locking nut

Conical Cuffs for Refill Hoses



Conical over-moulded cuffs - assembled with stretchable rubber cap for an easier connection to standard taps for refilling of fresh water tanks

Straight Cuffs with Integrated Inlet



Custom designed straight connection cuff with integrated inlet for additional solution dosage during operation

Straight Cuffs with Integrated Sealing



Custom designed cuffs for quick and easy assembly - featuring an integrated sealing - for movable points of connections (e.g. folded arms)

Straight Cuff with Outside Thread



Straight over-moulded cuffs with standard external thread for an easier connection (e.g. in the combination of ball valves or with sealings and locking nuts)

Angle Cuff



Custom designed over-moulded 35°/45°/75° angle cuffs where only limited space is available or for better airflow

Metal/Plastic Combinations



Directly over-moulded or casted-on solutions for thermoplastic hoses on metal connectors - 100% tight - for low pressure or vacuum applications

Straight Cuffs with Integrated Cap



Directly over-moulded cuffs featuring integrated cap - made as one piece - for economical entry level scrubbers or wet/dry vacuum cleaners

Straight cuffs with locking nut



Directly over-moulded cuffs with a locking nut to be directly assembled to a pipe or tank connection with outside thread

Extended Elbow Cuffs



Customized directly over-moulded elbow cuff featuring an extended connection ID and integrated functions - e.g. to plug-in sensors

Accessoires

Handle for TWINFLEX



Handle with integrated button function - newly designed for steam cleaning vacuum units in combination with the TWINFLEX hose - a complete set of accessories is available

Protection Cages



Customized solution to avoid stress cracking in the hose wall during frequent bending cycles. The semi-flexible protection cage takes out the bending stress force of the flexible hose when extremely bent

Step Cuffs



Step cuff featuring different outside conical diameters (male fit) for connection to various outlets of hand-held power tools

Silencers



Special hose assembly to reduce the level of noise of suction motor air outlets in automatic scrubbers where silent mode is needed, e.g. in hospitals

Hose Clips



Fixings for hoses and hose assemblies, e.g. used at industrial scrubbers for discharge hoses in black, blue or red (for fresh or used water tank)

Hook-on Clips



Fixings for hooked tubes, pneumatic hoses or cables on vacuum hoses, e.g. in pneumatic power tools or spray extraction units

Siphon Clips



Clips with two or three folds - used in industrial automatic scrubber for squeegee hoses to avoid water drops on the floor while unit not being used

Caps/Lids with Strap



Caps/Lids with straps to close standard cuffs - available for 25/32/38/50mm cuffs and systems

Water Level Indication



Orange floating ball in a transparent flexible hose to indicate the water level in fresh water tanks - mainly used with automatic scrubbers

T- and Y-Connectors



Connectors with external thread to connect three flexible hoses - available as T and Y connector - for flexible hoses with an ID of 25/32/38/50mm

Quick Connectors & more



Quick connectors and accessories for water hoses like SMARTFLEX SMT - compatible with common/standard systems

Brass Fittings & more



Wide range of professional fittings, quick coupling and accessories made of brass - compatible with common/standard systems

Hose Clamps

Bridge Clamps



Special hose clamps featuring a bridge, made of galvanized steel (W1) or stainless steel (W4)-for left or right hand pitch according to spiral hose

Clamps with Worm Drive



Standard hose clamps for light weight hoses, ducting and cuffs - band width 9mm or 12mm - made of galvanized steel (W1) or stainless steel (W4)

Wire Hose Clamps



Special hose clamps for light and medium heavy duty hoses and ducting - made of galvanized steel (W1) or stainless steel (W4)

Hinge Bolt Clamps



Heavy duty hose clamps for medium and heavy duty hoses - made of galvanized steel (W1)



Production of VACUFLEX® K1H-PU

Our onsite R&D capabilities, our in-house tool shop, our expertise in making our own thermoplastic compounds and our know-how in the production process gives us the ability and flexibility in creating complex customized solutions as well as ECO-friendly products which are ECO-nomical and ECO-logical.

Out of our German production site in Mörfelden-Walldorf (near to Frankfurt/Main) our highly motivated VACUFLEX® team is constantly manufacturing and shipping our German made quality products worldwide.



VACUFLEX® Injection Moulding Team Members

Who are we

VACUFLEX GmbH is a specialist in developing, manufacturing and distributing thermoplastic flexible hoses, connectors and complete hose assemblies; an independent company of the German based Schauenburg Hose Technology Group which operates production and distribution companies for flexible hoses and assemblies in Europe, North America and Asia.

Our expertise is based on more than 60 years of tradition in offering complete customized overall solutions to our valued OEM and distribution business partners.



5-Axis CNC Unit in action in the VACUFLEX® tool-shop

Our Mission

Being innovative, creative and solution driven is the core of our team spirit. As an ISO9001 certified company we are always committed to produce and deliver the highest quality of products and to exceed our customers expectations. Even with growing demands for new, sustainable and innovative products, the driving motivation remains delivering value to our customers and taking responsibility to reduce our carbon footprint.

Additionally, we also support and fully respect the principles of the UN Global Compact initiative in regard to human rights, labour, environment and anticorruption. We are committed to these principles as part of our strategy, our culture and our day-to-day operations.



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