Fire Hoses
Up to the end of the fifties the fire hoses were made of natural fibres such as hemp and flax. Since the beginning of the sixties synthetic fibres have been used. The way the yarn is twisted depends on the hose quality, i.e. several single threads are combined to one thread. There is a distinction between the warp, which runs vertically, and the weft, which runs horizontally. The warp consists of 2 or 3 single threads and the weft of up to 10 single threads.

A loom is used to produce the fabric out of the warp and weft. The warp runs in a weaving head and the weft rotates on the bobbin around the weaving head and pulls the thread into the warp. The lining is woven in simultaneously during this process.

Afterwards the fabric with the woven in lining is vulcanized in the gumming machine, i.e. the jacket and the lining is combined under pressure and heat.

With our large hose program and the detailed descriptions we can offer you a sound basis for an optimum choice of product. It goes without saying that we are always ready to assist you personally.

Our hose training courses also give further tips and knowledge.

Please note that all dimensions and weights noted in our catalogue are approximate values.

For orders please contact our local agent.
ZIEGLER delivery hoses.
Sectional view of the 4 types of linings (not full scale).

The jacket:
The jacket of high-strength polyester yarn is woven on our automatic jacquard looms. It does not rot and is resistant to chemicals, i.e. resistant to aggressive agents such as mineral oils, petrol, benzol, acids, alkalis and bleaches. It has high and constant resistance to pressure even in case of sudden shock pressure.

The lining:
There are 4 different procedures for lining the ZIEGLER synthetic hoses:

Two-layer gumming:
When using this procedure the layer of synthetic rubber is pre-vulcanized, stabilized and coated with the oil-resistant synthetic agent neoprene. Advantages: Oil protection through the neoprene coating, particularly good adhesion and smooth waterway surface that makes friction loss insignificant.

Contact gumming / one-layer gumming:
This procedure with a stronger type of adhesive has the advantage that there is rarely damage around the couplings. Strong adhesion between jacket and lining is another feature of this version.

Thin gumming:
The synthetic lining consists of a new high-quality rubber mixture that can be used for a particularly thin layer and thus makes the hose light and handy without losing the advantages of the proven rubber quality. Advantages: Small diameter of rolled-up hose, small storage space.

Foil lining:
In this new procedure a seamless, oil, petrol and chemical resistant synthetic foil is used. The material is resistant to temperatures between -60 °C and +80 °C. Advantages: Very light and handy, low space requirement.

All 4 types of linings are added to the jacket during the weaving process and are then hot vulcanized under pressure.

Outside coating:
Various extinguishing agents, humidity, debris and other aggressive agents affect the outside of the hose. To avoid damages our hoses can also be supplied with a synthetic red coating. This coating gives the hose higher resistance to chemical and mechanical influences and endures heat as well as cold. This hose has a high abrasion and heat resistance, is safer in case of sparks and has a better grip. Hoses with outside coating have the attribute “plus”.

Contact gumming
Foil lining
Two-layer gumming
Thin gumming
Neoprene oil protection layer
Jacket
Lining
Foil
Jacket
Lining
Jacket
Lining
Jacket
Lining
Jacket
Lining
Jacket
Lining
Jacket
Lining
DELIVERY HOSE
"EURO-STAR"
QUALITY CRITERION FOR INDUSTRY FIRE SERVICES

Euro-Star 423

For the use of
- fire services
- industries
- military
- technical rescue services
- agricultural institutions
- building industries

Advantages
- very light and flexible
- small diameter of rolled-up hose
- resistant to aging, ozone
- does not rot

Characteristics
Raw material: branded polyester, natural colour
Construction: double-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

Gumming
Thin gumming, hot vulcanized, fully synthetic, black, particularly light and flexible.

Characteristics
As ES 423, but with red, fully synthetic and nonporous outside coating.

Advantages
Easy to clean, dirt repellent, increased resistance to abrasion, heat and chemical resistant.

Euro-Star 423 plus

Further sizes, lengths and types of construction on request!
DELIVERY HOSE
"SILBERFUCHS"
A GOOD AND ECONOMICAL HOSE

Silberfuchs K2 L

For the use of
- fire services
- industries
- military
- technical rescue services

Advantages
- very light and flexible
- small diameter of rolled-up hose
- resistant to aging and ozone
- insensitive to cold and heat
- does not rot and decay

Characteristics
Raw material: branded polyester, natural colour
Construction: double-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

Gumming
Thin gummings, hot vulcanized, fully synthetic, black, particularly light and flexible.

Silberfuchs K2 L plus

Characteristics
As K2 L, but with red, fully synthetic, nonporous outside coating.

Advantages
Easy to clean, dirt repellant, increased resistance to abrasion, heat and chemical resistant.

Size | Size (mm) | Approval No. K2 L / K2 L plus | Approval national | Approval international | Working pressure (bar) | Test pressure (bar) | Bursting pressure (bar)
--- | --- | --- | --- | --- | --- | --- | ---
D 25 | 1" | 821471/822273-1 | DIN 14811 | | 16 | | 50 |
C 42 | 1 1/2" | 822073/822073-1 | DIN 14811 | Switzerland | 16 | 25 | 50 |
45 | 1 3/4" | 821973/821973-1 | DIN 14811 | Switzerland | 16 | 25 | 50 |
C 52 | 2" | 821973/821973-1 | DIN 14811 | Switzerland | 16 | 25 | 50 |
65 | 2 1/2" | 821873/822173-1 | DIN 14811 | Switzerland | 16 | 25 | 50 |
B 75 | 3" | 821873/822173-1 | DIN 14811 | Switzerland | 16 | 25 | 50 |

Further sizes, lengths and types of construction on request!
DELIVERY HOSE
"SILBERFUCHS"
WITH REINFORCED LINING

Silberfuchs K2

For the use of
- fire services
- industries
- military
- technical rescue services

Advantages
- reinforced lining
- low damage in the coupling area
- resistant to aging and ozone
- does not rot
- high adhesion between jacket and lining

Characteristics
Raw material: branded polyester, natural colour
Construction: double-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

Gumming
One-layer gumming, hot vulcanized, fully synthetic, black, reinforced.

Silberfuchs K2 plus

Characteristics
As K2, but with red, fully synthetic and nonporous outside coating.

Advantages
Easy to clean, dirt repellent, increased resistance to abrasion, heat and chemical resistant.

Characteristics
Raw material: branded polyester, natural colour
Construction: double-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

Gumming
One-layer gumming, hot vulcanized, fully synthetic, black, reinforced.

Size (mm) | Size (inch) | Approval No. K2 / K2 plus | Approval national | Working pressure bar | Test pressure bar | Bursting pressure bar
---|---|---|---|---|---|---
C 42 | 1 5/8" | 820770-1/820870-1 | DIN 14811 | 16 | 25 | 50
C 52 | 2" | 820870-1/820770-1 | DIN 14811 | 16 | 25 | 50
B 75 | 3" | 820670-1/820670-1 | DIN 14811 | 16 | 25 | 50

Further sizes, lengths and types of construction on request!
**DELIVERY HOSE**

“SILBERFUCHS”

**WITH REINFORCED JACKET**

Silberfuchs K3 L

For the use of
- fire services
- industries
- military
- technical rescue services

**Advantages**
- very light and flexible
- small diameter of rolled-up hose
- resistant to aging and ozone
- insensitive to cold and heat
- does not rot and decay
- increased abrasion resistance

**Characteristics**
Raw material: branded polyester, natural colour
Construction: double-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

**Gumming**
Thin gumming, hot vulcanized, fully synthetic, black, particularly light and flexible.

Silberfuchs K3 L plus

**Characteristics**
As K3 L, but with red fully synthetic nonporous outside coating.

**Advantages**
Easy to clean, dirt repellant, increased abrasion resistance, heat and chemical resistant.

**Silberfuchs K3 L / K3 L plus**

<table>
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<th>Size (mm)</th>
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</tbody>
</table>

Further sizes, lengths and types of construction on request!
**DELIVERY HOSE "SILBERFUCHS"**

**WITH REINFORCED JACKET AND REINFORCED LINING**

---

**Silberfuchs K3**

![Image of Silberfuchs K3]

**For the use of**
- fire services
- industries
- military
- technical rescue services

**Advantages**
- reinforced lining
- low damage in the coupling area
- resistant to aging and ozone
- insensitive to cold and heat
- does not rot and decay
- increased abrasion resistance

**Characteristics**
- Raw material: branded polyester, natural colour
- Construction: double-twined warp, multi-twined and reinforced weft
- Manufacturing method: endless woven, twill weave

**Gumming**
- One-layer gumming, hot vulcanized, fully synthetic, black, reinforced.

<table>
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<td>36</td>
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</tbody>
</table>

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**Silberfuchs K3 plus**

![Image of Silberfuchs K3 plus]

**Characteristics**
- Gumming: One-layer gumming, hot vulcanized, fully synthetic, black, reinforced.

**Advantages**
- As K3, but with red, fully synthetic, nonporous outside coating.
- Easy to clean, dirt repellent, increased abrasion resistance, heat and chemical resistant.

---

Further sizes, lengths and types of construction on request!
DELIVERY HOSE
“BLAUFUCHS”
STRONGEST JACKET / STRONGEST LINING

Blaufuchs 60

For the use of
- fire services
- industries
- military
- technical rescue services

Advantages
- extremely strong inside gumming
- very low damage in the coupling area
- high resistance to fuels and chemicals
- resistant to aging and ozone
- does not rot
- insensitive to cold and heat
- very low friction losses
- particularly resistant to pressure and abrasion

Characteristics
Raw material: branded polyester, natural colour
Construction: triple-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

Gumming
Two-layer gumming consisting of a black, fully synthetic lining and a white layer of oil-resistant neoprene.

Blaufuchs 60 plus

Characteristics
As Blaufuchs 60, but with a red, fully synthetic nonporous outside coating.

Advantages
Easy to clean, dirt repellant, heat and chemical resistant, increased resistance to abrasion.

<table>
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<td>25</td>
<td>60</td>
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</tbody>
</table>

Further sizes, lengths and constructions on request!
DELIVERY HOSE "LEICHTGEWICHT"
SMALL DIAMETER OF THE ROLLED-UP HOSE
AND OF VERY LOW WEIGHT

Leichtgewicht

For the use of
- fire services
- industries
- military
- technical rescue services

Advantages
- very flexible
- small diameter of rolled-up hose
- extremely lightweight
- resistant to aging and ozone
- does not rot

Characteristics
Raw material: branded polyester, natural colour
Construction: double-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

Leichtgewicht plus

Lining
Fully synthetic foil lining.

Characteristics
As Leichtgewicht, but with red, fully synthetic, nonporous outside coating.

Advantages
Easy to clean, dirt repellant, increased resistance to abrasion, resistant to heat and chemicals.

Leichtgewicht / Leichtgewicht plus

<table>
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<tr>
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<th>Approval No.</th>
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</table>

Further sizes, lengths and types of construction on request!
**DELIVERY HOSES**

"ROTFUCHS" AND "GELBFUCHS"

THE BRIGHT COLOURED ONES

**Rotfuchs**

For the use of:
- fire services
- industries
- military
- technical rescue services

Advantages:
- very light and flexible
- small diameter of rolled-up hose
- resistant to aging and ozone
- does not rot
- insensitive to cold and heat
- does not decay

Characteristics:
Raw material: branded polyester, dyed red
Construction: triple-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

Gelbfuchs

Gumming:
Thin gumming, hot vulcanized, fully synthetic, black, particularly light and flexible.

Characteristics:
Raw material: branded polyester, dyed yellow
Construction: triple-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

<table>
<thead>
<tr>
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<th>Size (inch)</th>
<th>Approval No.</th>
<th>Approval national</th>
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<td>DIN 14811</td>
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<td>50</td>
</tr>
</tbody>
</table>

Further sizes, lengths and types of construction on request!
**DELIVERY HOSE**

"LEUCHTFUCHS" -

**PHOSPHOROGEN, EXCELLENT IN DARKNESS**

---

**Leuchtfuchs**

For the use of
- professional and factory fire services
- technical rescue services

**Advantages**
- very light and flexible
- small diameter of rolled-up hose
- resistant to aging and ozone
- does not rot
- easy to see in darkness and smoke

---

**Characteristics**

Raw material: branded polyester, natural colour
Construction: triple-twined warp, multi-twined and reinforced weft
Manufacturing method: endless woven, twill weave

---

**Gumming**

Thin gumming, hot vulcanized, fully synthetic, black, particularly light and flexible.

---

**Leuchtfuchs plus**

**Characteristics**

As Leuchtfuchs, but with bright, fully synthetic and nonporous outside coating.

**Advantages**

Easy to clean, dirt repellant, resistant to heat and chemicals, new dimensions with regard to abrasion resistance.

---

**Leuchtfuchs / Leuchtfuchs plus**

<table>
<thead>
<tr>
<th>Size (mm)</th>
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</tbody>
</table>

Further sizes, lengths and types of construction on request!
**DELIVERY HOSE**  
"PIONIER" -  
**FOR THE TOUGHEST CONDITIONS**

**Pionier Light**

For the use of  
- airport fire services  
- professional and factory fire services  
- refineries  
- military  
- chemical industries  
- shipping industries

**Advantages**  
- abrasion-proof, rugged and durable  
- excellent adhesion  
- resistant to aging and ozone  
- does not rot  
- resistant to oil, petrol and chemicals  
- no cleaning and drying required

**Characteristics**  
High-strength polyester yarn, endless woven, completely embedded into the gumming, resulting in optimum protection against damage.

Inside and outside gumming:  
High-grade NBR/PVC mixture  
Inside: very smooth, minimum friction loss  
Outside: smooth

**Pionier 500**

Inside and outside gumming:  
As Pionier Light, but Pionier 500 is ribbed on the outside, resulting in high abrasion resistance and as protection against heat.

**Size**  
Size (mm)  
Size (inch)  
Working pressure (bar)  
Test pressure (bar)  
Bursting pressure (bar)

<table>
<thead>
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<th>Size</th>
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**Size**  
Size (mm)  
Size (inch)  
Approval No.  
Approval national  
Working pressure (bar)  
Test pressure (bar)  
Bursting pressure (bar)

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Further sizes, lengths and types of construction on request!
DELIVERY HOSE "PIONIER" - FOR SPECIAL USE UNDER EXTREME CONDITIONS

Pionier spezial

For the use of:
- airport fire services
- professional and factory fire services
- refineries
- military
- chemical industries
- shipping industries

Advantages:
- abrasion-proof, rugged and durable
- excellent adhesion
- resistant to aging and ozone
- does not rot
- extremely resistant to oil, petrol and chemicals

Characteristics
Sealing: latex-sealing
Fabric: high-strength polyester/polyamide yarn, endless woven, completely embedded in the gumming, resulting in optimum protection against damages. Through the polyamide the adhesion, pressure loss and bending radius are improved by 25% compared with the already excellent figures of the Pionier 500 hoses.

Gumming
High-grade nitrile rubber.
Lining: very smooth for minimum pressure loss
Outside: ribbed patterns for high abrasion resistance

Pionier Quattro

Characteristics
Sealing: synthetic rubber Hypalon, yellow
Fabric: high-strength polyester yarn, endless woven, completely embedded in the gumming, resulting in optimum protection against damages

Size | Size | Approval No. | Approval international | Working pressure (bar) | Test pressure (bar) | Bursting pressure (bar)
--- | --- | --- | --- | --- | --- | ---
Pionier spezial
<table>
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<td>822782-1</td>
<td></td>
<td>16</td>
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</table>
Pionier Quattro
| (mm) | (inch) | Approval No. | Standard national (similar to) | Working pressure (bar) | Test pressure (bar) | Bursting pressure (bar)
--- | --- | --- | --- | --- | --- | ---
| D 25 | 1" | - | DIN 14811 | 12 | 25 | 50 |
| 38 | 1 1/2" | - | DIN 14811 | 12 | 25 | 50 |
| C 42 | 1 2/3" | - | DIN 14811 | 12 | 25 | 50 |
| 45 | 1 3/4" | - | DIN 14811 | 12 | 25 | 50 |
| C 52 | 2" | - | DIN 14811 | 12 | 25 | 50 |
| 65 | 2 1/2" | - | DIN 14811 | 12 | 25 | 50 |
| 70 | 2 3/4" | - | DIN 14811 | 12 | 25 | 50 |
| B 75 | 3" | - | DIN 14811 | 12 | 25 | 50 |
| 102 | 4" | - | DIN 14811 | 12 | 18 | 36 |
| A 110 | 4 1/2" | - | DIN 14811 | 12 | 18 | 36 |

Further sizes, lengths and constructions on request!
**DELIVERY HOSES**

"PIPELINE", "GLATTE NATTER", "TRINKWASSER"

---

### Pipeline

Fabric of polyester fibres with embedded copper strands. With synthetic, electrically conductive gumming and black, synthetic outside coating. With couplings and with safety mechanism against self-acting uncoupling.

**For the use of**
- fire services
- refineries
- military
- chemical industries

### Glatte Natter

Sewer cleaning hose

A flexible, handy hose of polyester fibres, fully synthetic on the outside and inside. With black coating, easy to clean.

**For the use of**
- industries
- municipalities
- technical rescue services

### Trinkwasser Silberfuchs

Drinking water hose

This hose features extraordinary resistance to weather and ozone. Smell and tasteless. Approved by the German health authorities.

**For the use of**
- water works
- utilitarian unions
- food industries

---

### Pipeline Specifications

<table>
<thead>
<tr>
<th>Size (mm)</th>
<th>Size (inch)</th>
<th>Approval national (similar to)</th>
<th>Working pressure (bar)</th>
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### Glatte Natter Specifications

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<th>Bursting pressure (bar)</th>
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### Trinkwasser Specifications

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<td>KTW</td>
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<td>25</td>
<td>50</td>
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</tbody>
</table>

Further sizes, lengths and types of construction on request!
COUPLING SYSTEMS
AND OPTIONS FOR DELIVERY HOSES

Quick coupling
Storz

ZIEGLER clamp coupling

Coupling
British standard BS 336

Coupling
French standard

Coupling
North American standard NFPA

Coupling
Swedish standard SMS

Coupling
Norwegian standard NOR

Coupling
Russian standard GOST

Sliding sleeve

Further couplings on request.
Delivery hose EN 1947
(former DIN 14817)
Heavy-duty rapid intervention hose with cord thread reinforcement. Wall thickness 8 mm. Working pressure 20 bar, test pressure 30 bar, bursting pressure 45 bar. For rapid intervention units water or dry chemical (only S 32), non collapsing,
S 25, I.D. 25 mm,
C-coupling on both ends, 50 m long ...................................................31166
C-coupling on both ends, 60 m long ...................................................31509
One end: C-coupling
the other end: 1”-coupling, 45° ...................................................31525
S 28, I.D. 28 mm,
C-coupling on both ends, 30 m long ...................................................31163
S 32, I.D. 32 mm,
electrically conductive,
C-coupling on both ends, 30 m long ...................................................31162

High pressure hose DIN 20021
for fire fighting, Formflex-design with 2 or 3 heavy textile layers, black. Smooth inside and outside surface. 1” special screw couplings on both ends, non collapsing,
16 mm I.D., 60 m long, working pressure 50 bar, test pressure 120 bar ...................................................31165
20 mm I.D., 60 m long, working pressure 45 bar, test pressure 110 bar ...................................................31164
20 mm I.D., 60 m long, working pressure 70 bar, test pressure 165 bar ...................................................31161
20 mm I.D., 80 m long, working pressure 70 bar, test pressure 165 bar ...................................................31514
25 mm I.D., 40 m long, working pressure 55 bar, test pressure 130 bar ...................................................31515
25 mm I.D., 50 m long, working pressure 55 bar, test pressure 130 bar ...................................................31513

High pressure hose “Eurostar 933”
For 25 bar working pressure, 45 bar test pressure and over 90 bar bursting pressure. Size 38 mm.
With fixed high pressure couplings of brass on request. ...................................................30581

Scavenging nozzle
with size C coupling, 52 mm I.D., for connection to a sewer cleaning hose. The nozzle ejects strong water beams forwards and sideways and in this way it burrows through sludge. The nozzle tip can be removed and substituted with a solid tip that also penetrates solid materials.
Weight: 1.6 kg ...................................................74111
Suction hoses EN ISO 14557 without outside spiral
Advantages: Small bending radius of only 600 mm, weight saving of up to 30%.
The suction hoses with a smooth inside surface and a ripped outside surface feature a hidden inside spiral. The rubber material is resistant to corrosion and rotting. The pressure load is at least 6 bar for a period of 5 minutes and the vacuum load at least 0.8 bar for a period of 1 minute. The binding parts are without a spiral.

### Suction hoses with couplings

<table>
<thead>
<tr>
<th>Art. No.</th>
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<th>Wall thickness</th>
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<td>31223**</td>
<td>110 mm</td>
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<tr>
<td>31224***</td>
<td>110 mm</td>
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** with "AWG" quick-coupling grips

### Suction hoses without couplings

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*** with "Scharfenberg" quick-coupling grips

### Accessories for suction hoses

- **Suction hose couplings PN 16**
  - Light metal, sealing rings of nitrile rubber, resistant to oil and petrol,
  - **Size A**, DIN 14323
    - Weight: 1.65 kg  
  - **Size B**, DIN 14322
    - Weight: 0.7 kg  
  - **Size C**, DIN 14321
    - Weight: 0.5 kg

### Binding costs for suction hose couplings

- for 1 pc. A suction coupling ....... 31260
- for 1 pc. B suction coupling ....... 31261
- for 1 pc. C suction coupling ....... 31262
- for 1 pc. D suction coupling ....... 31263

### Costs for removing couplings

- for 1 pc. A suction coupling ....... 31264
- for 1 pc. B suction coupling ....... 31265
- for 1 pc. C suction coupling ....... 31266
- for 1 pc. D suction coupling ....... 31267

### Binding costs for couplings from external sources

- D ................................................ 30040
- C 42 ............................................ 30041
- C ................................................ 30042
- B ................................................ 30043
- A ................................................ 30044

* = not illustrated
Hose baskets, hose bridge/ramps and overhead structure for hose laying

ZIEGLER hose basket, STK-D, DIN 14827
for 2 size C delivery hoses of 15 m or 3 size D delivery hoses of 15 m. Made of drawn aluminium profiles.
Pls. note: 2 STK-Ds fit into one vehicle storage place for a STK-C.
Dim. (LxWxH): 435x115x520 mm
Weight: 3 kg

Further designs (e.g. with perforated plate sides) are available.

ZIEGLER hose basket, foldable, STK-C, DIN 14827 *
for 3 size C delivery hoses of 15 m. One side can be swung-down making it easy to place the hoses.
Made of drawn aluminium profiles.
New: More stable and safer by means of smaller distances between the side rods.
Dim. (LxWxH): 870x115x520 mm
Weight: 4 kg

Hose ramp of wood, DIN 14820
Square timber, red-white. For 2 size B hoses. Cording of perlon fabric.
Track width 70 cm, collapsible.
Dim. (LxWxH): 870x115x520 mm
Weight: 11.4 kg

Hose bridge of aluminium, DIN 14820
consisting of 2 nonskid ramps, hooked on to one central profile. Carrying capacity 6 t.
For 2 size B and 2 size C hoses.
Track width 60 cm, 66 cm long, 9 cm high.
Weight: 17 kg

ZIEGLER hose basket, STK-B, DIN 14827
for 2 size B delivery hoses of 20 m. One side can be swung-down. Made of drawn aluminium profiles.
New: More stable and safer by means of smaller distances between the side rods.
Dim. (LxWxH): 870x145x520 mm
Weight: 4.5 kg

Hose ramp of rubber
Tearproof. Adapts itself to the ground. For 2 size B hoses.
Dim. (LxWxH): 865x307x76 mm
Weight: 11.5 kg

ZIEGLER overhead pipe structure for hose laying, DIN 14821
Collapsible.
Width at the top: 3.30 m
Width at the ground: 5.50 m
Weight: 57 kg

Hose protecting sleeve *
Protects the hose in the coupling area against hard impact when the hose is thrown out. Recommended for hoses with thin gumming.
Size B ........................................ 30035
Size C ........................................ 30036
Size C 42 .................................... 30037

* = not illustrated