

# Product catalogue

Emergency pneumatics & HazMat





## Contents

### Vetter EIS: E-Vehicle Isolation System

Page 4

### Lifting Bags

S.Tec 12 Lifting Bags (12 bar/174 psi)

Page 10

Connectable Bags C.Tec 12 (12 bar/174 psi)

Page 14

Ultra Flat Bags (8 bar/116 psi)

Page 18

Mini Lifting Bags (8 bar/116 psi)

Page 20

Vetter Rapid Response Kit

Page 22

Wedge Lifting Bags (1 bar/14.5 psi)

Page 24

Lifting Bags (1 bar/14.5 psi)

Page 26

Accessories – Lifting Bags

Page 30

### Safety Cushions

SP 16/SP 25 Safety Cushions

Page 36

Accessories – SP 16/SP 25 Safety Cushion Sets

Page 38

SP 60 Safety Cushions

Page 40

### Rescue Paths

Rescue Paths

Page 42

Accessories – Rescue Paths

Page 43

### HazMat product range

Sealing leaks

Page 46

High-pressure solutions

Page 60

Sealing and controlled drainage

Page 66

Sealing pipelines and gullies

Page 72

Collection and storage

Page 78

Accessories – dangerous goods product range

Page 84

### Vetter Resistance List

Temperature resistance, material and resistance list

Page 98



# Vetter EIS: E-Vehicle Isolation System

Securing, cooling and transporting away electric vehicles: less water, greater effect!

**new!**



# Vetter E-Vehicle Isolation System (EIS)

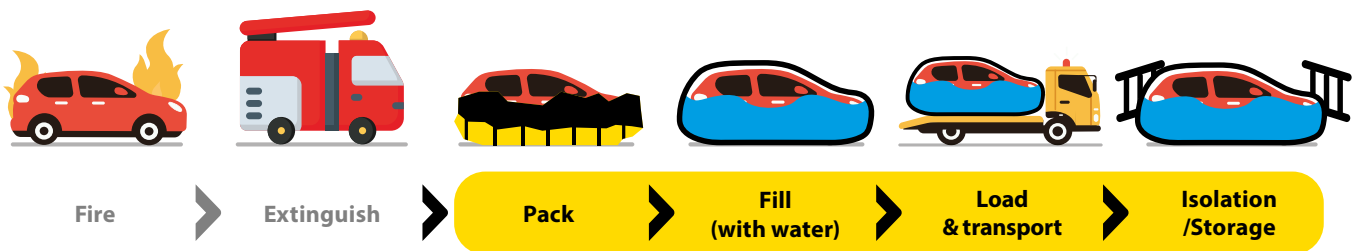
System for the cooling and safe storage of E-cars

- › compact, efficient and resource-saving
- › prevents spontaneous combustion
- › cools and insulates the battery unit
- › allows transport and storage

The continuous and safe **cooling, isolation, transport** and **compact storage** of burnt-out electric vehicles with lithium-ion batteries has presented rescue services, towing services and workshops with huge challenges until now. Self-ignition following the initial extinguishing is an incalculable risk for everyone involved. We are changing that with the Vetter E-Vehicle Isolation System (EIS):

## Vetter EIS: light, compact and resource-saving

After extinguishing the burning vehicle, the EIS is attached to the vehicle and flooded. Once the complete battery unit is under water, the vehicle can be **lifted, transported away** and **stored in a compact manner** in the EIS until its final disposal.



### EIS System: 1110021800\*



<b>Size   cm</b>	500 x 250 x 120
<b>Pack size   cm</b>	80 x 43 x 60
<b>Weight, approx.   kg</b>	46
<b>Persons required</b>	3
<b>Material</b>	Polyester fabric, PVC-coated on both sides (according to EN 12641-2)
<b>Lashing straps</b>	9 x black automatic lashing straps, 4 x yellow lashing straps

<b>Lifting slings hanger</b>	4-strand belt sling (DIN EN 1492-1 conformity), 6,300 kg load capacity
<b>Water level indicator</b>	PVC hose with screw connection and fitting valve
<b>2 lifting straps (not included in the set)</b>	We recommend two lifting straps for safe lifting.
<b>2 Vetter lifting bags (not included in the set)</b>	We recommend two lifting bags for safe lifting of the car.

\* Technical changes reserved.



**Lifting straps:**

Simple lifting for transporting the vehicle away.  
*(not included in the set)*



**Automatic lashing straps (9 x black):**

For fixing the vehicle in the EIS. They ensure a good contour fit and minimal use of water.



**Lashing straps (4 x yellow):**

For fixing the EIS in the direction of travel.



**Loading:**

Fastenings for secure transport on the towing vehicle.



**Hose connection:**

C Storz coupling for flooding the EIS.



**Water level hose:**

Keep a constant eye on the current water level.



**In operation ...**

- › in the fire of electric cars
- › for passenger cars with lithium-ion batteries
- › in case of danger of self-ignition
- › during transport of electric cars
- › at the storage of electric cars



**Good reasons:**

- › compact solution with 80 x 43x 60 cm pack size
- › only 3 operators needed
- › intuitive & fast application
- › low water consumption (max. 2,000 Liters)



**Guaranteed quality:**

- › CE certified
- › safety factor 4:1



**20**

Model	20
Capacity	2000 kg
Dimensions	1000 x 1000 x 1000 mm
Weight	10 kg
Material	High strength polyethylene
CE	CE

**Other Guide:**

- 1. Always use the lifting bag in a safe and controlled manner.
- 2. Do not use the lifting bag to lift people or animals.
- 3. Do not use the lifting bag to lift heavy machinery or equipment.
- 4. Do not use the lifting bag to lift loads that are not evenly distributed.
- 5. Do not use the lifting bag to lift loads that are not supported by a flat surface.
- 6. Do not use the lifting bag to lift loads that are not supported by a stable base.
- 7. Do not use the lifting bag to lift loads that are not supported by a secure anchor.
- 8. Do not use the lifting bag to lift loads that are not supported by a strong structure.
- 9. Do not use the lifting bag to lift loads that are not supported by a solid foundation.
- 10. Do not use the lifting bag to lift loads that are not supported by a firm ground.

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# Lifting Bags



## S.Tec 12 Lifting Bags (12 bar/174 psi)

The next generation: high-pressure lifting bags

- › 50 % more performance\*
- › 2.5 cm (0.98 inch) insertion height
- › up to 102 tonne (112 US tons) lifting power
- › lifting power & height are readable at the side

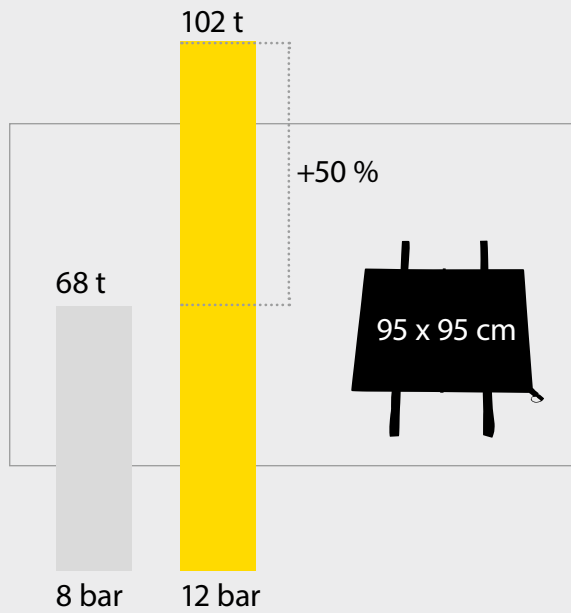
If maximum lifting power combined with low insertion height is required, then our S.Tec 12 Lifting Bags are the right choice. As a further development of our popular Mini Lifting Bags, you only need 2.5 cm insertion height for all models. And with its dynamic 12 bar operating pressure, you can move up to 102 tonnes effortlessly. Thanks to the intelligent surface profile, during an assignment you can also safely stack two bags on top of each other to achieve even larger lifting heights.

### The challenge of low insertion height & large lifting height

Our S.Tec 12 Lifting Bags and our C.Tec 12 Connectable Bags are the ideal supplement when you require a large lifting height, but the insertion height available is very small. In this case you start with our S.Tec 12 and then use the combinable C.Tec 12 to create the necessary workspace for rescuing persons who are buried. And you can do all this with only one dual controller and one air source.



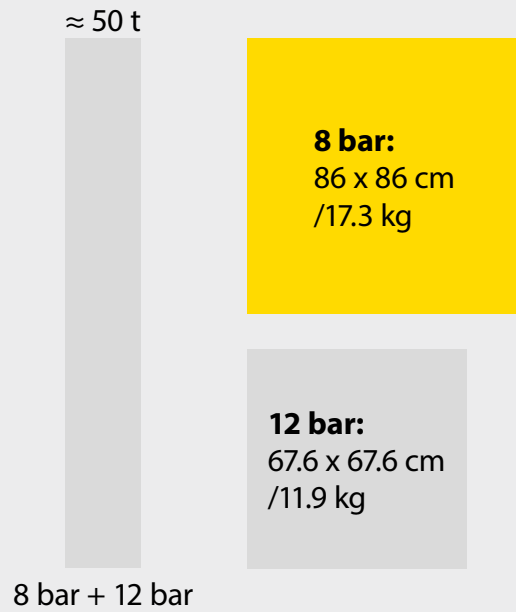
**50 % increase in performance with the same bag size\***



\* compared to conventional 8 bar (116 psi) lifting bags

**Applies to the following S.Tec 12 Lifting Bags:**  
V 1, V 5, V 7, V 26, V 33L, V 35, V 59, V 83 and V 102

**Same lifting power with smaller and lighter bags\***



**Applies to the following S.Tec 12 Lifting Bags:**  
V 10, V 12, V 20, V 40 and V 50



Uniform low insertion height of 2.5 cm (0.98 inch) for all bag sizes



Lifting power up to 102 tonnes (112 US tons)



**In operation ...**

- › to rescue trapped persons in traffic
- › traffic accidents
- › for rockfalls or landslides
- › collapsed buildings



**Good reasons:**

- › 50 percent increase in performance\*
- › stackable thanks to high-grip surface profile
- › safety coupling
- › Aramid reinforced
- › compatible with 8 + 10 bar filling accessories



**Guaranteed quality:**

- › individually tested (dated inspection seal)
- › safety factor greater than 4:1
- › complies with EN 13731 (independently tested)
- › 3-year guarantee

## S.Tec 12 Lifting Bags (12 bar/174 psi)

The next generation: high-pressure lifting bags

### Your choice:

- › 14 different bag sizes (square or rectangular shaped) with lifting power up to 102 tons (112 US tons)
- › 3 controllers (2 deadman versions, 1 fitting)
- › variety of accessories (see page 30)
- › many different compressed air sources (e.g. compressed air cylinder, compressor, compressed air connection on the vehicle)

**The S.Tec 12 Lifting Bags you choose depends on the weight of the load to be lifted and the necessary lift distance. We will be pleased to advise you!**



## Technical data\*

### Insertion height of only 2.5 cm (0.98 inch)

S.Tec 12 Lifting Bags (12 bar/174 psi)	Lifting power, max.** t/US tons	Max. lifting height cm/inch	Size cm/inch	Air requirement at 12 bar/174 psi litre/cu. ft.	Weight approx. kg/lbs
<b>V 1</b> 1316000200	1.3 1.5	7.4 2.9	14 x 13 5.5 x 5.1	4 0.2	0.5 1.1
<b>V 5</b> 1316000300	4.6 5.1	12.1 4.8	25.5 x 20 10 x 7.9	23.2 0.8	1.3 2.9
<b>V 7</b> 1316000400	7.5 8.3	15.8 6.2	28 x 28 11 x 11	54 1.9	2 4.4
<b>V 10</b> 1316000500	10.1 11.1	17.8 7	32 x 32 12.6 x 12.6	120.3 4.3	2.6 5.8
<b>V 12</b> 1316000600	12.3 13.5	19.5 7.7	35 x 35 13.8 x 13.8	191.3 6.8	3 6.7
<b>V 20</b> 1316000700	20.2 22.2	24.5 9.6	44 x 44 17.3 x 17.3	253 8.9	4.8 10.6
<b>V 26</b> 1316003300	25.9 28.5	27 10.6	47 x 52 18.5 x 20.5	279 9.9	6.2 13.7
<b>V 33 L</b> 1316000800	33.3 36.7	19.3 7.6	31 x 102 12.2 x 40.2	321.7 11.4	8 17.6
<b>V 35</b> 1316000900	34.7 38.2	29.9 11.8	52 x 62 20.5 x 24.4	479 16.9	8.2 18.2
<b>V 40</b> 1316003500	40.4 44.5	33.5 13.2	61 x 61 24 x 24	603 21.3	9.3 20.5
<b>V 50</b> 1316001000	50.1 55.2	37.5 14.8	67.6 x 67.6 26.6 x 26.6	798.3 28.2	11.9 26.2
<b>V 59</b> 1316001100	59.4 65.5	39.3 15.5	78 x 69 30.7 x 27.2	1,103.7 39	13.9 30.6
<b>V 83</b> 1316001200	82.7 91.1	46.6 18.3	86 x 86 33.9 x 33.9	1,646 58.1	19.1 42.1
<b>V 102</b> 1316001300	101.6 112	51.6 20.3	95 x 95 37.4 x 37.4	2,301.3 81.3	23.1 50.9

\*Subject to change without notice | \*\*Actual lifting power after deducting the edge area

#### S.Tec 12 Lifting Bags (12 bar/174 psi):

Operating pressure: 12 bar (174 psi)

Test pressure: 18 bar (261 psi)

Burst pressure, at least: 48 bar (696 psi)

**L:** rectangular shaped lifting bag

**The ideal combination: S.Tec 12 & C.Tec 12 lifting bags can be operated with only one dual controller**

## Connectable Bags C.Tec 12 (12 bar/174 psi)

Individually or connected – safe and reliable whatever the assignment

- › up to 30 % weight savings compared to the previous model
- › up to 20 % less air requirement per bag
- › uncomplicated and easy
- › toolless connection technology

Vetter C.Tec 12 Connectable Bags combine the lifting power of the mini lifting bags and the lifting height of the familiar Vetter 1 bar lifting bags. This means you always adapt the required lifting height to the individual operational scenario and at the same time utilise the power of a modern 12-bar system. Thanks to the toolless connection technology, the bags are ready to use in a few seconds. The load plate integrated in the bag ensures a high degree of stability and load capacity during the lifting process. And lifting point loads and objects with a sharp or pointed surface is also possible without additional adapters.

### The challenge of low insertion height & large lifting height

Our S.Tec 12 Lifting Bags and our C.Tec 12 Connectable Bags are the ideal supplement when you require a large lifting height, but the insertion height available is very small. In this case you start with our S.Tec 12 and then use the combinable C.Tec 12 to create the necessary workspace for rescuing persons who are buried. And you can do all this with only one controller and one air source.

**new!**





### In operation ...

- › rescuing trapped persons
- › creating accesses
- › natural disasters, collapsed buildings and accidents



### Good reasons:

- › conserves resources since little air is required
- › easy to handle
- › toolless connection of the bags
- › bags can be used individually or connected
- › do not need to be emptied for dismantling



### Guaranteed quality:

- › individually tested (inspection seal)
- › factor of safety of more than 4:1
- › complies with EN 13731 (independently tested)



Connection bolt



New load plate

**Up to 30 % weight savings compared to the previous model!**



New filling connection in the edge area

# Connectable Bags C.Tec 12 (12 bar/174 psi)

## Individual lifting bag sets

You require a lifting bag set that is optimally matched to your needs? We will be pleased to put together an individual set for you. It's your choice:

- › 3 different lifting bag sizes
- › 3 controllers (2 deadman versions, 1 fitting version)
- › variety of accessories (see Page 30)
- › many different compressed air sources (e.g. compressed air cylinder, compressor, compressed air connection on the vehicle)



Accessories trolley



Transport bag



## Technical data\*

Connectable Bags VCB N 12 bar/174 psi	Lifting power, max.**	End lifting capacity, max.	Lifting height at end lifting capacity	Lifting height, max**
	t/US to	t/US to	cm/inch	cm/inch
<b>VCB 30 N</b> 1316004600	30.1 33.2	7 7	19.5 7.7	27.5 10.8
<b>VCB 75 N</b> 1316004700	74.7 82.3	12 13	33.2 13.1	43.5 17.1
<b>VCB 172</b> 1316003900	171.8 189.3	15 16	59 23.2	69 27.2

\*Subject to change without notice | \*\*without load

Connectable Bags VCB N 12 bar/174 psi	Air requirement at 12 bar/174 psi	Diameter	Weight approx.	Insertion height
	litre/cu. ft.	cm/inch	kg/lbs	cm/inch
<b>VCB 30 N</b> 1316004600	328 11.57	56.5 22.2	12 26.5	7 2.8
<b>VCB 75 N</b> 1316004700	1,269 44.75	89 35.0	22.4 49.4	7 2.8
<b>VCB 172</b> 1316003900	5,048 178	135 53.2	58 127.9	11.5 4.5

\*Subject to change without notice

### Connectable Bags:

Operating pressure: 12 bar (174 psi)

Test pressure: 18 bar (261 psi)

Burst pressure, at least: 48 bar (696 psi)

### Combinations – up to 14 possible combinations

	max lifting height in cm**	max lifting height in inch**	A	B	C	D	E	F	G	H	I	J	K	L	M	N
VCB 30 N	27.5	10.8	1	2	3				1	1	1		1		1	
VCB 75 N	43.5	17.1				1	2	3	1	2		1		1	1	
VCB 172	69	27.2									1	1	2	2	1	3
Connection Plug (New)	0	0		1	2		1	2		1					2	
Connection Plate (old)	1.5	0.6											1	1		2
Adapter (new to old)	3.0	1.2									1	1	1	1	1	
Total height in cm***			27.5	55.0	82.5	43.5	87.0	130.5	71.0	114.5	99.5	115.5	170.0	186.0	143.0	210.0
Total height in inch***			10.8	21.7	32.5	17.1	34.3	51.4	28.0	45.1	39.2	45.5	66.9	73.2	56.3	82.7

\*Subject to change without notice | \*\*without load | \*\*\*without protection cap

**The ideal combination: S.Tec 12 Lifting Bags & Connectable Bags can be operated with only one compressed air source.**

## Ultra Flat Bags (8 bar/116 psi)

### The unrivalled flat first-aider

- › flexible in use
- › ready for use in seconds
- › insertion height of only 1.6 cm (0.6 inch)
- › an indispensable tool

Our Vetter Ultra Flat Bags are your ideal first-aider when every millimetre counts. With an insertion dimension of only 1.6 cm, they fit in even the smallest gaps. In operation, they enable you to quickly create the space necessary for other rescue equipment. Thanks to their low air requirement and easy handling, the high-performance Ultra Flat Bags are ready to use in seconds.



## Technical data\*

### Unequalled low insertion height of only 1.6 cm\*\* (0.6 inch)

Ultra Flat Bags (8 bar/116 psi)	Lifting power max. t/US tons	Lifting height max. cm/inch	Size cm/inch	Air requirement at 8 bar litre/cu. ft.	Weight approx. kg/lbs	Insertion height cm/inch
<b>UF 1</b> 1314018801	1.0 1.1	7.5 3.0	14 x 13 5.5 x 5.1	3.85 0.14	0.4 0.9	1.6 0.6
<b>UF 3</b> 1314018701	3.3 3.6	12.0 4.7	25.5 x 20 10 x 7.9	24.75 0.88	1 2.2	1.6 0.6
<b>UF 6</b> 1314018601	6.4 7.1	16.5 6.5	29.5 x 29.5 11.6 x 11.6	48.4 1.71	1.7 3.7	1.6 0.6
<b>UF 10</b> 1314020701	9.6 10.6	20.3 8.0	37 x 37 14.6 x 14.6	92.95 3.29	2.4 5.3	1.6 0.6

\*Subject to change without notice | \*\*in valve area +6 mm

#### Ultra Flat Bags:

Operating pressure: 8 bar (116 psi)

Test pressure: 12 bar (174 psi)

Burst pressure, at least: 32 bar (464 psi)



Super-flat insertion dimension of only 1.6 cm\*\* (0.6 inch)



### In operation ...

- › to rescue trapped persons
- › for initial measures
- › for freeing trapped limbs
- › to extend the smallest voids
- › at accidents



### Good reasons:

- › super flat insertion dimension of only 1.6 cm\*\* (0.6 inch)
- › flexible and easy handling
- › Aramid-reinforced



### Guaranteed quality:

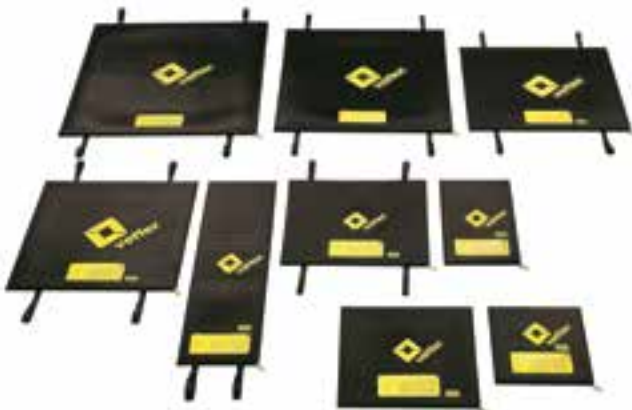
- › individually tested (inspection seal)
- › factor of safety of more than 4:1
- › complies with EN 13731 (independently tested)
- › 3-year guarantee

## Mini Lifting Bags (8 bar/116 psi)

The proven standard worldwide

- › complies with EN 13731
- › safety coupling
- › versatily applicable
- › quality – Made in Germany

Flexibly usable, long since tried and tested and always reliable – Vetter's Mini Lifting Bags. Use them to push, press, heave or part objects and thus be able to rescue injured persons quickly and smoothly without jolting. And thanks to the optimised surface profile, without our Mini Lifting Bags you can even master slippery surfaces such as sand or grass. This also means that two bags can be stacked safely and stably. The special safety coupling protects you and your team members in operation: It prevents accidental detachment of the hose from the lifting bag.



Up to 2 bags stackable on top of each other



Especially flat with insertion height from 2.5 cm (0.98 inch)



Sturdy, non-slip surface

## Technical data\*

Sizes V 1–V 40 (8 bar/116 psi) have an insertion height of 2.5 cm (0.98 inch),  
V 54–V 68 insertion height 2.8 cm (1.1 inch).

Mini lifting bags (8 bar/116 psi)	Lifting power, max.** t/US tons	Lifting height, max. cm/inch	Size cm/inch	Air requirement at 8 bar litre/cu. ft.	Weight approx. kg/lbs
<b>V 1</b> 1314009300	1 1.1	7.5 3	14 x 13 5.5 x 5.1	2.7 0.1	0.5 1.1
<b>V 3</b> 1314009500	3.3 3.6	12 4.7	25.5 x 20 10 x 7.9	15.8 0.6	1 2.2
<b>V 5</b> 1314018200	5.7 6.3	14.5 5.7	28 x 28 11 x 11	28.4 1	1.4 3.1
<b>V 6</b> 1314009600	6.4 7	16.5 6.5	29.5 x 29.5 11.6 x 11.6	39.6 1.4	1.9 4.2
<b>V 10</b> 1314002200	9.6 10.6	20.3 8	37 x 37 15 x 15	82.8 2.9	3.3 7.3
<b>V 12</b> 1314002400	12 13.2	20 7.9	32 x 52 13 x 20	96.3 3.4	3.9 8.6
<b>V 18</b> 1314002500	17.7 19.5	27 10.6	47 x 52 19 x 20	195.3 6.9	5.7 12.6
<b>V 20</b> 1314011800	19.4 21.4	28 11	48 x 58 19 x 23	224.1 7.9	6.2 13.7
<b>V 24</b> 1314002600	24 26.5	30.6 12	52 x 62 20 x 24	296.1 10.4	7.2 15.9
<b>V 24 L</b> 1314002700	24 26.5	20.1 7.9	31 x 102 12 x 40	211.5 7.5	6.8 15
<b>V 31</b> 1314002800	31.4 34.6	37 14.6	65 x 69 26 x 27	517.5 18	10.1 22.3
<b>V 35 L</b> 1314018300	35.8 39.5	31 12.2	43 x 115 17 x 45	349.4 12.3	10 22.1
<b>V 40</b> 1314002900	39.6 43.7	40.2 15.8	78 x 69 31 x 27	675 23.6	12.2 26.9
<b>V 54</b> 1314003000	54.4 60	47.8 18.8	86 x 86 34 x 34	1,117.8 39.5	17.3 38.1
<b>V 68</b> 1314003100	67.7 74.6	52 20.5	95 x 95 37 x 37	1,457.1 51.4	20.7 45.6

\*Subject to change without notice | \*\*Actual lifting power after deducting the edge area

### Mini lifting bags (8 bar/116 psi):

Operating pressure: 8 bar (116 psi)

Test pressure: 14 bar (203 psi)

Burst pressure, at least: 32 bar (464 psi)

L: rectangular shaped lifting bag

**Particularly strong: Several layers of Aramid make our Mini Lifting Bags very robust and durable.**

# Vetter Rapid Response Kit

## Rapid rescue of buried victims

- › immediately ready for use, self-sufficient and mobile
- › powerful compressor
- › for use in disaster areas
- › durable and compact backpack

Whether in earthquakes, tornadoes or flood disasters – in an emergency, no time must be lost in rescuing buried victims. For this purpose, we have developed an innovative solution that is as fast as it is effective: with the Vetter Response Kit, you can even in extensive and difficult-to-access terrain. In the compact and robust backpack you can bring all the necessary equipment to the scene, even if the target is inaccessible by vehicle. With the powerful battery compressor, you activate the two 8-bar lifting bags and the recovery can begin immediately. Thanks to the 8-bar lifting bags with a size of 37 x 37 cm and the required insertion height of only 2 cm, you can also lift heavy loads quickly and safely with the kit safely. The kit sets new standards in the self-sufficient and efficient rescue of buried victims.



### 1 Vetter 8-bar(116 psi) lifting bags (2 x):

Compact enough (37 x 37 cm) for quick use and at the same time big enough for lifting heavy loads. And with an insertion height of only 2.5 cm, the ideal choice for fast attack use in the debris field.

### 2 DeWALT battery compressor:

Easy to operate, robustly built and, thanks to its 54-volt battery technology, permanently ready for self-sufficient use at any time. In short: The optimal source of compressed air for our lifting bags in rough terrain.

### 3 Filling hoses (2 x):

With a length of five metres, they are the optimal compromise between low dead weight and flexibility in the terrain. The two different colours (red and yellow) prevent confusion during operation.

### 4 DeWALT 54-volt batteries (2 x):

They provide the necessary power (13 complete strokes and discharge per battery) and are also quickly recharged after use. A charger is included.

### 5 Control element:

Precise filling of the lifting bags – for safe and smooth lifting of debris.

### 6 Backpack:

Custom-made from robust polyester. All important parts are efficiently placed and reachable with a few hand grips.

### 7 Rain cover:

Permanently installed, it enables the compressor to be operated even in bad weather conditions.

# Rapid Response Kit: 0800021100\*

<b>Mini lifting bags</b> <i>(8 bar/116 psi)</i>	<b>Vetter V 10</b> 1314002200
<b>Lifting power, max.   t</b>	9.6
<b>Size   cm</b>	37 x 37
<b>Weight, approx.   kg</b>	3.3
<b>Insertion height   cm</b>	2.5
<b>Lifting height   cm</b>	20
<b>Air requirement   Litres</b>	82.8
<b>stackable**</b>	yes
<b>Backpack</b>	<b>Vetter carrying system</b> 0800021000
<b>Size   cm</b>	50 x 53 x 47
<b>Weight, approx.   kg</b>	4.7
<b>Colour</b>	Black
<b>Material</b>	Polyester
<b>Back cushion</b>	yes
<b>Hip/chest belt for stabilisation</b>	yes / yes
<b>Rain covers</b>	yes, with four ventilation holes

<b>Compressor</b>	<b>DeWALT DCC1054N-XY</b> 0800020900
<b>Size   cm</b>	36 x 30 x 42
<b>Weight, approx.   kg</b>	12.9
<b>Battery</b>	54 volts (lithium-ion), 2 x in scope of delivery included
<b>Charger</b>	yes, for one battery (Charging time 80 minutes)
<b>Noise emission   dB</b>	92
<b>Capacity</b>	10 litre pressure vessel
<b>Compressed air connection</b>	Brass coupling
<b>Compatible with other 8-bar products from Vetter</b>	yes

### Filling accessories

*(Yellow: 0800000901, Red: 0800001301)*

<b>Length   m</b>	2 x 5
<b>Color</b>	1 x yellow, 1 x red each
<b>Control element First Response Kit</b>	Dead man controller (0800020700)

\* Technical changes reserved. | Conforms to DIN 13731, independently tested  
 \*\* A maximum of two lifting bags can be stacked on top of each other.

**In use by: Earthquake, Tornado and Tsunami**



### In operation ...



- › during the rescue of buried victims
- › lifting even heavy loads
- › in areas difficult to access
- › for places that cannot be reached by vehicles
- › by earthquakes, tornados and tsunami



### Good reasons:

- › innovative solution for fast and durable self-sufficient rescue
- › kit from 7 parts
- › with 2 x filling hoses, 2 batteries, controller and rain cover
- › customized backpack
- › compact and modern design



### Guaranteed quality:

- › individually tested (inspection seal)
- › complies with EN 13731 (independently tested)
- › factor of safety 4:1
- › 2-year guarantee

## Wedge Lifting Bags (1 bar/14.5 psi)

Smooth and precise at bus accidents

- › uniform pressure distribution
- › safe and reliable handling
- › for thin-walled bodywork
- › wedge shape for optimum lift angle

The special shape of the Vetter Wedge Lifting Bags produces the ideal lift angle for you to rescue injured persons in bus accidents a.e. Thanks to the wedge angle, you spread the load to be lifted uniformly over the entire lift distance – an important safety factor for thin-walled bodywork such as the side panels of buses and coaches. The lifting bag maintains reliable contact with the bodywork and ground, steadily and over a large area.



Positioning ropes at the rear



## Technical data\*

Insertion height of 3–6 cm (1.2–2.3 inch) due to the wedge shape

Wedge Lifting Bags (1 bar/14.5 psi)	Lifting power t/US tons	Lifting height, max. cm/inch	Size cm/inch	Air requirement litre/cu. ft.	Weight, approx. kg/lbs
3110007702	6.0 6.6	60 23.4	80 x 80 31.5 x 31.5	506 17.9	10.4 22.9

\*Subject to change without notice

### Wedge Lifting Bags (1 bar/14.5 psi):

Operating pressure: 1 bar (14.5 psi)

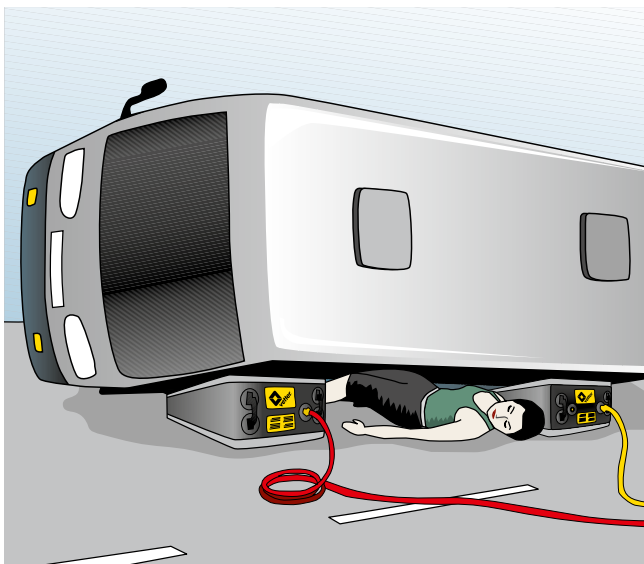
Test pressure: 1.5 bar (21.8 psi)

### Wedge lifting bag set up to 12 tonnes (13.2 US tons)

- › 2 Wedge Lifting Bags 1 bar (14.5 psi), 6 t (6.6 US tons)
- › Air CU lighting, Deadman control
- › Packing bag 80 x 56 x 23 cm (32 x 22 x 9 inch)
- › 2 inflation hoses 1 bar (14.5 psi), 10 m (32 ft.), yellow and red
- › Pressure regulator 200/300 bar (2,900/4,350 psi)
- › Repair material

3110012400

3110012500 (USA)



Optimum lift angle thanks to wedge shape

You can also use the (1 bar/14.5 psi) lifting bag accessories for wedge lifting bags. You save the expense of multiple purchases.



### In operation ...



- › for rescuing trapped persons
- › for thin-walled bodywork, such as delivery vehicles
- › for lifting overturned buses and coaches
- › for preparing for uprighting using lifting bags (1 bar/14.5 psi)



### Good reasons:

- › optimum lifting height for fast rescue of people
- › first-class pressure point distribution
- › precisely positionable thanks to positioning aids
- › increased safety due to wedge shape



### Guaranteed quality:

- › individually tested (inspection seal)
- › complies with EN 13731 (independently tested)
- › factor of safety 3:1
- › 2-year guarantee

## Lifting Bags (1 bar/14.5 psi)

Versatile classic with large lifting height

- › high stability
- › low pressure point loading
- › lifting height up to 127 cm (50 inch)
- › only 3 cm (1.2 inch) insertion height

Our classic lifting bags have assisted you for more than 40 years with the recovery of trucks, delivery vans or small airplanes. Internal stabilising straps prevent the lifting bags from bulging and thus create a flat contact surface over the entire lifting distance. This is the requirement for uniform pressure point distribution – indispensable for the recovery of thin-walled vehicle bodies. The clever anti-slip indentations on the extremely resistant tops and undersides also enable you to use the lifting bags safely and reliably on soft or slippery ground.





Lift overturned vehicles efficiently



Stabilisation straps ensure a flat contact surface



Lift sensitive structures smoothly



### In operation ...

- › for rescuing trapped persons
- › at traffic accidents
- › for uprighting overturned thin-walled bodywork



### Good reasons:

- › low pressure point loading
- › uniform lifting power over the entire lifting distance
- › working pressure from 0.1 to 1 bar (1.45 psi to 14.5 psi) variably adjustable
- › side panels made of high-quality Aramid



### Guaranteed quality:

- › individually tested (inspection seal)
- › factor of safety of at least 3:1
- › complies with EN 13731 (independently tested)
- › 2-year guarantee

**Vetter lifting bags (1 bar/14.5 psi) have a uniform insertion height of only 3 cm (1.2 inch).**

## Lifting bag sets (1 bar/14.5 psi)

You require a lifting bag set that is optimally matched to your needs? No problem at all with our versatile sets. All the sets listed here are available with this basic equipment:

- › 2 inflation hoses 1 bar (14.5 psi), 5 m (16.4 ft.), yellow and red
- › Air CU lighting, Deadman control
- › Regulator 200/300 bar (2,900/4,350 psi)
- › Storage bag
- › Repair material

**Call us! We will be pleased to advise you!**

### Set with deadman control

- › Set up to 6 tonnes (6.6 US tons)
- › 2 lifting bags, Type 1/6"

**3110011500** | 3110011900 (USA)

- › Set up to 9 tonnes (9.9 US tons)
- › 2 lifting bags, Type 1/9"

**3110011400** | 3110011800 (USA)

- › Set up to 13 tonnes (14.3 US tons)
- › 2 lifting bags, Type 1/13"

**3110011300** | 3110011700 (USA)

- › Set up to 23 tonnes (24.9 US tons)
- › 2 lifting bags, Type 1/23"

**3110011200** | 3110011600 (USA)



Lifting Bag Set (1 bar/14.5 psi) with Air CU lighting deadman control

### Set with fitting control\*\*\*

- › Set up to 6 tonnes (6.6 US tons)
- › 2 lifting bags, Type 1/6"

**3110002201** | 3110008101 (USA)

- › Set up to 9 tonnes (9.9 US tons)
- › 2 lifting bags, Type 1/9"

**3110001901** | 3110008001 (USA)

- › Set up to 13 tonnes (14.3 US tons)
- › 2 lifting bags, Type 1/13"

**3110001501** | 3110007901 (USA)

- › Set up to 23 tonnes (24.9 US tons)
- › 2 lifting bags, Type 1/23"

**3110000801** | 3110007801 (USA)



Lifting Bag Set (1 bar/14.5 psi) with fitting control

## Technical data\*\*

### Set with Air CU lighting, Deadman control

Lifting bags (1 bar/14.5 psi)		Lifting power, max. t/US tons	Lifting height, max. cm/inch	Air requirement at 1 bar /14.5 psi litre/cu. ft.	Folded size (ø x H) cm/inch	Weight, approx. kg/lbs
<b>Set 1/6</b>	3110011500	6.0	56	656	65 x 22	25
	3110011900 (USA)	6.6	22	23	25.6 x 8.7	55
<b>Set 1/9</b>	3110011400	9.0	76	1,334	80 x 22	32
	3110011800 (USA)	9.9	30	47	31.5 x 8.7	71
<b>Set 1/13</b>	3110011300	13.0	81	2,076	95 x 22	40
	3110011700 (USA)	14.3	32	73	37 x 8.7	88
<b>Set 1/23</b>	3110011200	22.6	127	6,046	125 x 22	58
	3110011600 (USA)	24.9	50	213	49 x 8.7	128

\*\*Subject to change without notice

### Set with fitting control\*\*\*

Lifting bags (1 bar/14.5 psi)		Lifting power, max. t/US tons	Lifting height, max. cm/inch	Air requirement at 1 bar/14.5 psi litre/cu. ft.	Folded size (ø x H) cm/inch	Weight, approx. kg/lbs
<b>Set 1/6</b>	3110002201	6.0	56	656	65 x 22	24.7
	3110008101 (USA)	6.6	22	23	25.6 x 8.7	54
<b>Set 1/9</b>	3110001901	9.0	76	1,334	80 x 22	31.7
	3110008001 (USA)	9.9	30	47	31.5 x 8.7	70
<b>Set 1/13</b>	3110001501	13.0	81	2,076	95 x 22	39.7
	3110007901 (USA)	14.3	32	73	37 x 8.7	87
<b>Set 1/23</b>	3110000801	22.6	127	6,046	125 x 22	57.5
	3110007801 (USA)	24.9	50	213	49 x 8.7	127

\*\*Subject to change without notice

### Individual lifting bags – uniform insertion height of only 3 cm (1.2 inch).

Lifting bags (1 bar/14.5 psi)	Lifting power, max. t/US tons	Lifting height, max. cm/inch	Diameter cm/inch	Air requirement at 1 bar/14.5 psi litre/cu. ft.	Weight, approx. kg/lbs
<b>1/6</b> 3110002301	3.0	56	61	328	7
	3.3	22	24	12	15
<b>1/9</b> 3110002001	4.5	76	76	667	9
	5.0	30	30	24	20
<b>1/13</b> 3110001601	6.5	81	91	1,038	12
	7.2	32	36	37	26
<b>1/23</b> 3110000901	11.3	127	120	3,023	21
	12.5	50	47	107	46

\*\*Subject to change without notice | \*\*\*According to EN 13731, these items are not approved for use by fire services within the EU.

#### Lifting Bags (1 bar/14.5 psi):

Operating pressure: 1 bar (14.5 psi)

Test pressure: 1.5 bar (21.75 psi)

# Accessories

## 12 bar (174 psi)

### Air CU Lighting

- › Controller 12 bar (174 psi)
- › Deadman control
- › Plastic housing



➤ **Dual deadman controller 1200001700**

### Aluminium-controller

- › Controller 12 bar (174 psi)
- › Connectable
- › Deadman control



➤ **Dual deadman controller 1200005000**

### Fitting control\*

- › 12 bar (174 psi)



➤ **Single 1200001900**

➤ **Dual 1200001800**

### Inflation hose 12 bar (174 psi)

- › Yellow



➤ **5 m (16.4 ft.) 1200002000**

➤ **10 m (32 ft.) 1200002500**

- › Blue

➤ **5 m (16.4 ft.) 1200002100**

➤ **10 m (32 ft.) 1200002600**

- › Red

➤ **5 m (16.4 ft.) 1200002300**

➤ **10 m (32 ft.) 1200002800**

### Shut-off unit 12 bar (174 psi)

- › Yellow, 0.3 m\* (1 ft.)

➤ **1200004100**

- › Blue, 0.3 m\* (1 ft.)

➤ **1200006400**

- › Red, 0.3 m\* (1 ft.)

➤ **1200004000**



### Shut-off unit 12 bar\* (174 psi)

➤ **1200004200**



### Connection technology

- › C.Tec connection plate

➤ **1000012100**



### Accessories kit 12 bar (174 psi)

- › Accessories trolley including accessories
- › Dimensions: 604 x 473 x 283 mm

➤ **1200006300**



## C.Tec 12 Transport

Packing bag VCB 25/30

▶ 1000012500



Packing bag VCB 62/75

▶ 1000012600



Packing bag VCB 143/172

▶ 1000012700



## C.Tec 12 Protection cap

Protection cap VCB 25/30

▶ 1000012800



Protection cap VCB 62/75

▶ 1000012900



Protection cap VCB 143/172

▶ 1000013000



# Accessories

## 8 bar (116 psi)

### Air CU Lighting

- › Controller 8 bar (116 psi)
- › Deadman control
- › Plastic housing



➤ **Dual deadman controller 0800019900**

### Aluminium-controller

- › Controller 8 bar (116 psi)
- › Connectable
- › Deadman control



➤ **Dual deadman controller 0800015800**

### Fitting control\*

- › Control 8 bar (116 psi)



➤ **Single 0800002001**

➤ **Dual 0800002401**

### Inflation hose 8 bar (116 psi)

- › Yellow



➤ **5 m (16.4 ft.) 0800000901**

➤ **10 m (32 ft.) 0800007401**

- › Blue

➤ **5 m (16.4 ft.) 0800000601**

➤ **10 m (32 ft.) 0800007801**

- › Red

➤ **5 m (16.4 ft.) 0800001301**

➤ **10 m (32 ft.) 0800007601**

### Shut-off unit 8 bar (116 psi)

- › Yellow, 0.3 m\* (1 ft.)

➤ **0800007301**

- › Red, 0.3 m\* (1 ft.)

➤ **0800007201**



### Shut-off unit 8 bar\* (116 psi)

➤ **0800005800**





## 1 bar (14.5 psi)

### Air CU Lighting

- › Controller 1 bar (14.5 psi)
- › Deadman control
- › Plastic housing



➤ **Dual deadman controller 0100005000**

### Fitting control\*

- › Control 1 bar (14.5 psi)



➤ **Single 0100001503**



➤ **Dual 0100001803**

### Inflation hose 1 bar (14.5 psi)

- › Yellow



➤ **5 m (16.4 ft.) 0100004100**

➤ **10 m (32 ft.) 0350007401**

- › Red

➤ **5 m (16.4 ft.) 0100004000**

➤ **10 m (32 ft.) 0350033500**

### Shut-off unit 1 bar\* (14.5 psi)

➤ **0100000301**



# Inflating

## Inflating with cylinder

### Compressed air cylinder

- › 1 l/200 bar (0.04 cu. ft./2,900 psi), steel, 5/8" IT, 200 l (7.1 cu. ft.)

▶ **1600010100**

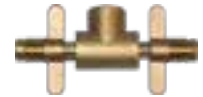
- › 6 l/300 bar (0.21 cu. ft./4,350 psi), steel, 5/8" IT, 1,800 l (63.5 cu. ft.)

▶ **1600010800**



### Dual connector

- › for simultaneous connection of 2 compressed air cylinders
- › 5/8" thread



▶ **300 bar (4,350 psi) 1600009100**

### Pressure regulator

- › 200/300 bar (2,900/4,350 psi)
- › max. outlet pressure 14 bar (203 psi)



▶ **1600031900 | 1600032000 (USA)**

## Inflating with alternative air source\*

### Air supply hose

- › green
- › 10 m (32 ft.)
- › with shut-off valve

▶ **1600013601**



### Truck tyre valve

▶ **1600008000**



### Truck tyre inflation system adapter

▶ **1600007800**



### Truck tyre valve connector

▶ **1600012900**



## Truck brake line

### Truck compressed air connector

- › 2-circuit

▶ 160007500



### Sealing-off cap

▶ 1600012600



## Inflating using Vetter hand and foot pump

### Hand pump

- › 520 ccm/stroke

▶ 160008700



### Foot pump

- › 420 ccm/stroke

▶ 160009400



## Compressor

### Adaptor for construction site compressor

▶ 1600012000



### Adaptor for portable compressor

▶ 160008200



## Stationary compressed air system

### Adapter for stationary compressed air system

▶ 160008200



### Pre-pressure regulator

- › max. inlet pressure 16 bar\*\* (232 psi)

▶ 1600014500



## Adapter set

Including:

- › 2 x air supply hose, 10 m (32 ft.), green with shut-off valve
- › Truck tyre inflation system adapter
- › Truck tyre valve
- › Truck tyre valve connector
- › Truck compressed air connector
- › Sealing-off cap
- › Adapter for construction site compressor
- › Adapter for stationary compressed air system
- › Bag 18 x 45 cm (7 x 17.7 inch)

▶ 1600012501



\*\*Note: If the outlet pressure of the compressed air system exceeds the allowable inflation pressure of the controller, the adaptor must be replaced with a pre-pressure regulator.

## Safety Cushions SP 16/SP 25\*

Rescue from up to 25 metres (80 ft.) height in a flash

- › rescue from up to 8 floors
- › fast set up
- › easy to carry, even when set up
- › psychologically optimised surface

Vetter Safety Cushions are your fastest rescue tool, when a location is difficult to access or if you want to additionally safeguard rescue by ladder. All you need is two rescue workers to make a cushion ready for use and to position it. By the way: Our safety cushions are also a reliable solution for rescuing trapped rescue teams.

### What else you should know about the Vetter Safety Cushions:

- › Neon yellow side walls: They make our Safety Cushions even more visible at night or in poor weather conditions.
- › Blue circle: The design of the landing surface verifiably reduces the paralysing fear of jumping of the persons to be rescued. In collaboration with the experienced psychologist Prof. Horst Schuh, many years ago, Vetter developed the blue circle.
- › Only 30 seconds: Our SP 16 Safety Cushion recovers its position in only 30 seconds.
- › Standardised quality: Since 2014, the SP 16 has been the only standardised jump rescue equipment in Germany.

An independent institute in Berlin has approved our safety cushions according to EN 14151-3, or rather based on this standard. The approval required extensive drop tests using different falling weights and drop positions. Particular attention was paid to examining the risk of injuries. The result: Only with a certified safety cushion do you protect the jumper and your personnel from preventable injuries in the best possible way.

Use a compressed air cylinders to simply set up the cushion outside of the jump zone and then carry it to the required location. In this way, the rear of buildings and inner courtyards can also be properly safeguarded.



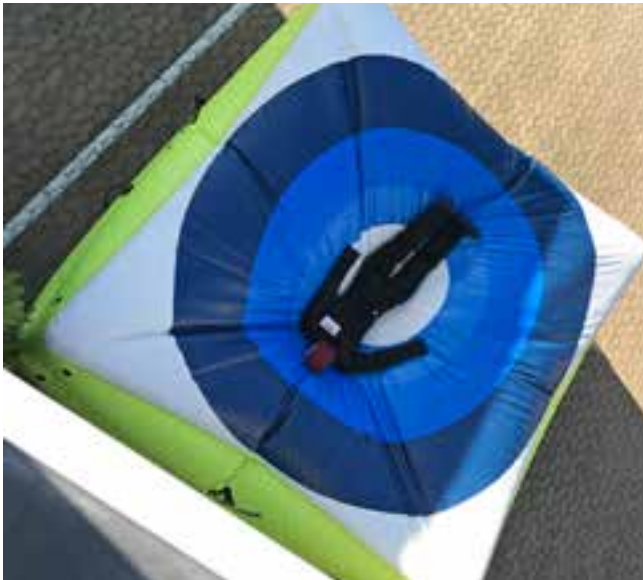
Available in 2 sizes: SP 16 for jump heights up to 16 m/51.2 ft. (5 floors) and SP 25 for jump heights up to 25 m/80 ft. (8 floors)



Easily to position by 2 people



Psychologically optimised surface reduces fear



Prevents jumpers from landing on the ground



### In operation ...



- › for fires in buildings with up to 8 floors/25 m (80 ft.) (SP 25)
- › as a safeguard for rescue from heights
- › in terrain inaccessible for turntable ladders
- › in case of suicide attempt



### Good reasons:

- › only 2 or 4 persons required for the setup
- › outer cover made of flame-resistant, tear-proof material
- › SP 16 approved to EN 14151-3
- › SP 25 tested based on EN 14151-3



### Guaranteed quality:

- › individual testing with falling weights
- › dated test seal of approval
- › integrated safety valve
- › 2-year guarantee
- › independently tested

**If you would like the test certificates to EN 14151-3, please contact: +49 (0) 22 52 / 30 08-0 or [vetter.info@idexcorp.com](mailto:vetter.info@idexcorp.com)**

# SP 16/SP 25 Safety Cushion Sets\*

## Blue Circle

The design of the landing area was developed in collaboration with the experienced psychologist, Prof. Horst Schuh. It verifiably reduces the paralysing fear of jumping of the persons to be rescued. The neon yellow side walls ensure good visibility of the safety cushion in poor weather conditions and at night.



### SP 16 Safety Cushion Set

- › Rescue height up to 16 metres (51.2 ft.)

1530018101

### SP 25 Safety Cushion Set

- › Rescue height up to 25 metres (80 ft.)

1530018601

## Black Cross

The black cross is the tried and tested basic design of our safety cushions. The neon yellow side panels ensure good visibility of the safety cushion in poor weather conditions and at night.



### SP 16 Safety Cushion Set

- › Rescue height up to 16 metres (51.2 ft.)

1530015501

### SP 25 Safety Cushion Set

- › Rescue height up to 25 metres (80 ft.)

1530018801

## Accessories – Safety Cushions

### Inflation hose, for direct connection to compressed air cylinder

on request



### Test gauge, for checking the safety cushion

1530027200



### Pressure regulator

- › 200/300 bar (2,900 psi/4,350 psi)
- › Max. outlet pressure 14 bar (203 psi)

1600031900

1600032000 (USA)



### Compressed air cylinder

- › 6 l/300 bar (0.21 cu. ft./4,350 psi), for SP 16
- › Steel
- › 5/8" IT
- › 1,800 l (63.5 cu. ft.)

1600010800

- › 9 l/300 bar (0.32 cu. ft./4,350 psi), for SP 25
- › Composite
- › 5/8" IT
- › 2,700 l (95.3 cu. ft.)

1600019900



## Technical data\*

All safety cushions can be used within a temperature range of -20/+50 °C

Safety Cushions SP 16/SP 25	SP 16	SP 25
<b>External size (L x B x H)</b> <i>cm/inch</i>	350 x 350 x 170 138 x 138 x 67	460 x 460 x 240 181 x 181 x 94
<b>Air requirement at 0.3 bar / 0.5 bar</b> <i>litre/cu. ft.</i>	1,374 48.5	2,006 70.8
<b>Inflation time, approx.</b> <i>Sek./sec.</i>	30	60
<b>Recovery times</b> <i>Sek./sec.</i>	10	20
<b>Folded size (L x B x H) including 6 l air cylinder</b> <i>cm/inch</i>	87 x 52 x 44 34 x 21 x 17	110 x 63 x 45 43 x 25 x 18
<b>Weight including compressed air cylinder</b> <i>kg/lbs</i>	55 121	83.2 183.4

\*Subject to change without notice

### SP 16 Safety Cushions:

Operating pressure: 0.37 bar (5.4 psi)

Test pressure: 0.48 bar (7 psi)

### SP 25 Safety Cushions:

Operating pressure: 0.48 bar (7 psi)

Test pressure: 0.62 bar (9 psi)

All safety cushion sets include repair material for base and side walls and are delivered in a sturdy packing cover.

## Accessories – Safety Cushions

### Vacuum adapter for safety cushions and rescue paths

- › Connect the quick-action coupling to the air source; the pressure should be between 4 and 6 bar (58 and 87 psi).
- › **Only from Vetter:** Up to 30 % space saved and fast packing together



1600016301

### Valve protection

- › Prevent uncontrolled opening of cylinder valves in case of vibrations or during transport. Vetter has developed patented, highly effective valve protection for compressed air cylinders 6 l/300 bar (0.21 cu. ft./4,350 psi) with a neck diameter of 27–30 mm (1.1–1.2 inch).
- › **Only from Vetter:** Protection during transport against unwanted opening.



1600027700

# Safety Cushions SP 60\*

The only lifesaver for jump heights up to 60 metres (192 ft.)

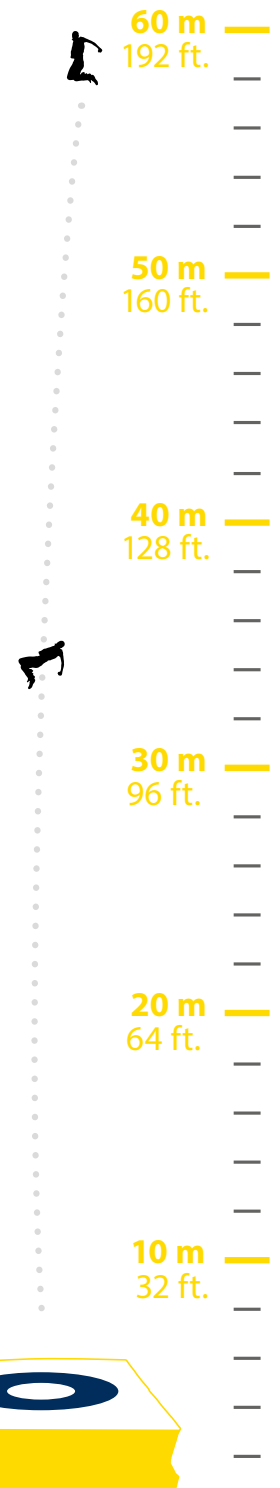
- › large landing area
- › psychologically optimised
- › set up in 80 seconds
- › rescue from up to 20 floors up

With the Vetter SP 60 Safety Cushions you rescue the trapped persons quickly and easily, even from large heights, for example, if access for high-rise aerial appliances is blocked. Rescue operations up to the 20th floor are thus possible.

## With the SP 60 Safety Cushions you can rely on:

- › Two powerful continuous blowers set up the cushion within only 80 seconds.
- › The quick-action fastener for the fan installation makes you ready for operation even more quickly.
- › The intelligent two-chamber design and the innovative pressure-equalisation system ensure optimum impact deceleration.

We have designed the SP 60 without exposed seams on the underside. In this way we minimise the risk of friction-induced damage and unnecessary repairs.





## Technical data\*

SP 60 Safety Cushions	External size (L x B x H) cm/inch	Inflation time, approx. Sek./sec.	Folded size** (L x B x H) cm/inch	Weight, approx.** kg/lbs
SP 60	850 x 650 x 250 331.5 x 253.5 x 97.5	80	155 x 100 x 55 60.5 x 39 x 21.5	240 529

\*Subject to change without notice | \*\*without blowers

### Blower for permanent inflation\*\*\*

#### Ramfan EV 420 (2 blowers are required)

- › Capacity 16,498 m<sup>3</sup>/h (9,705 cfm)
- › Noise level 97 dB
- › Dimensions (L x W x H) 580 x 430 x 410 m (22.6 x 16.8 x 16 inch)
- › Weight approx. 31 kg (68 lbs)
- › Motor 1.1 kW, 240 V, 50/60 Hz



1530020700

### The following SP 60 Sets are available:

with Ramfan EV 420, electric blower

1530016000

with Leader ESP 230, electric blower

1530019400

with Leader MT 236 H, high-performance blower, petrol-driven

1530019600

### The SP 60 Safety Cushion includes the following standard components:

- › SP 60 Safety Cushions
- › 2 continuous blowers
- › Packing cover (tarpaulin storage cover)
- › Repair and spare part kit

The psychologically optimised "Blue Circle" surface design verifiably reduces the fear of jumping from a height of the persons to be rescued.

# Rescue Paths

## Traction and sure footing on all surfaces

- › ready to use in seconds
- › flexibly extendable
- › easy to handle
- › anti-slip surface

Vetter Rescue Paths create a reliable, safe surface for your team on water, ice, in moor areas or swamps. Due to the low compressed air requirement, the paths are ready to use after only a few seconds. And with the individually connectable standard lengths (6, 10 and 15 m), your team is optimally prepared for every emergency situation. The paths are fitted with highly-effective anti-slip strips – for a reliably firm grip for your operational personnel.



Safe walkway due to the anti-slip strips



Firm tread on the water surface



Rescue path for emergency sea rescue\*

## Technical data\*

Load capacity approx. 95 kg/m<sup>2</sup> (19.54 lbs/sq. ft.)

Rescue paths with anti-slip strips	External size (L x B x H) cm/inch	Air requirement at 0.5 bar litre/cu. ft.	Folded size (L x B x H) cm/inch	Weight, approx. kg/lbs
<b>6 m</b> 1530008502	600 x 140 x 10 236 x 55 x 4	1,321 47	165 x 35 x 25 65 x 14 x 10	28.3 62.5
<b>10 m</b> 1530008602	1,000 x 140 x 10 394 x 55 x 4	2,196 78	165 x 45 x 30 65 x 18 x 12	45.4 100
<b>15 m</b> 1530008702	1,500 x 140 x 10 591 x 55 x 4	3,360 119	165 x 60 x 45 65 x 24 x 18	67.5 149

\*Subject to change without notice

### Rescue Paths:

Operating pressure: 0.5 bar (7.25 psi)

Test pressure: 0.65 bar (9.4 psi)

### Pressure regulator

- › 200/300 bar (2,900 psi/4,350 psi)
- › max. outlet pressure 14 bar (203 psi)



1600031900 | 1600032000 (USA)

### Compressed air cylinder

- › 6 l/300 bar, (0.21 cu. ft./4,350 psi) steel,
- › 5/8" IT, 1,800 l (63.5 cu. ft.)



1600010800

### Vacuum adapter

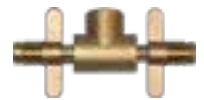
- › for safety cushions and rescue paths, connect the quick-action coupling to the air source; the pressure should be between 4 and 6 bar (58 and 87 psi).



1600016301

### Dual connector

- › for simultaneous connection of 2 compressed air cylinders
- › 5/8" thread



300 bar (4,350 psi) 1600009100



### In operation ...

- › for rescuing people who are drowning or who have fallen through ice
- › for rescue operations on unstable ground
- › for negotiating stretches of water or marshy ground
- › for emergency sea rescue



### Good reasons:

- › quickly inflated and ready to use
- › several paths can be connected variably
- › optimised edge profile makes it easier to pull persons onto the path



### Guaranteed quality:

- › individually tested (inspection seal)
- › integrated safety fills prevents over-inflation
- › tear-proof material



# HazMat product range



## Leak sealing bags

### Seal large areas reliably

- › sealing area up to 86 x 57 cm (34 x 22 inch)
- › for containers from 50 cm (20 inch) diameter
- › work quickly and easily
- › sealing of leaks in tanks

Every second counts when hazardous liquids escape from tanks, pipes or drums. Vetter leak sealing bags are therefore optimally designed for fast and easy use at the accident site. You inflate the bag within the shortest possible time with a foot pump. The uniform pressure distribution of the sealing bags protects the structures around the leaks and thus reduces the risk of the leak enlarging. The acid protective covers have an integrated belt pocket and suitable belt slots. You therefore do not have to remove the cover and belts for storage and save valuable time in operation.



Acid protective cover for safe use and safe storage

Reliable sealing thanks to the convenient solution with belt slots



## Vetter leak sealing bags are available in two versions:

### Swivel eyes

#### Particularly flexible in operation:

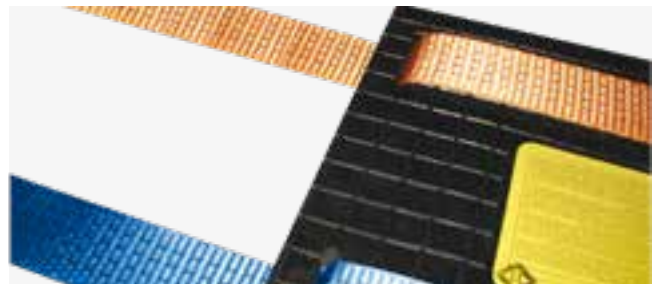
- › can be braced at an angle at temperature up to 90 °C
- › therefore, almost unlimited positioning options



### Belt slots

#### The safe solution in case of a risk of explosion:

- › no metal parts on the belt slot
- › sparking therefore not possible



### In operation ...

- › to cover large areas
- › to seal leaks in tank trucks and wagons
- › to seal large drums and pipes
- › to seal cracks



### Good reasons:

- › reinforced, low-expansion cover plate
- › can be used in narrow gaps
- › built-in metal plates for tensile load distribution over the entire bag width



### Guaranteed quality:

- › Individually tested (inspection seal)
- › very resistant acid protective cover (PVC)

## Leak sealing bag sets

### All sets listed here include these components:

- › Foot pump with safety valve, 1.5 bar (21.75 psi)
- › Inflation hose, 1.5 bar (21.75 psi), 10 m (32 ft.), blue
- › 4 tension and extension belts with ratchet, 10 m (32 ft.), orange and blue
- › Acid protective cover, PVC, yellow
- › 2 sealing plates, 60 x 30 x 3 cm (24 x 12 x 1.2 inch)
- › Transport case, 80 x 60 x 22 cm (32 x 24 x 9 inch)



Leak sealing bags with swivel eyes



Leak sealing bags with belt slots



## Sealing bags with swivel eyes

Sealing area of 50 x 30 cm (20 x 12 inch)



The leak sealing bag, Type LD 50/30 W, 1.5 bar (21.75 psi), is available as a set with the accessories on page 48. In addition, this set includes 2 ratchet belts (2 m/6.6 ft.), 2 attachment belts (5 m/16.4 ft.) and 2 tension and extension belts (10 m/32 ft.).

150000103



## Sealing bags with belt slots

Sealing area of 50 x 30 cm (20 x 12 inch)



The leak sealing bags, Type LD 50/30 S, 1.5 bar (21.75 psi), are available as a set with the accessories listed above on page 48.

1500005302



Use the sealing plates supplied for sharp-edged leak openings.  
They extend the life of your leak sealing bags.

## Special leak sealing bag sets

### XL leak sealing bags

Large sealing area of 86 x 57 cm



The XL leak sealing bag for large leaks. Suitable for all containers from diameter 90 cm.

- › Leak sealing bag, Type LD 110/60 S, XL, 1.5 bar, with belt slots
- › Single control device, 1.5 bar, fitting control
- › Inflation hose, 1.5 bar, 10 m, blue
- › 6 tension and extension belts with ratchet, 10 m, orange and blue
- › 2 sealing plates, 100 x 50 x 3 cm
- › Acid protective cover, PVC, yellow

▶ **1500018301**



XL leak sealing bags with extra-large sealing area

## Technical data\*

### Uniform sealing pressure of 14 mWC

Leak sealing bags	Size (L x W x H) cm	Sealing area cm	Air requirement at 1.5 bar litre	Single bag weight, approx. kg	Weight set, approx. kg
<b>LD 50/30 W</b> 1500005102	61.5 x 30 x 2	50 x 30	17.5	6.9	31.7
<b>LD 50/30 S</b> 1500005401	61.5 x 30 x 2	50 x 30	17.5	4.3	29

\*Subject to change without notice

#### Leak sealing bags:

Operating pressure: 1.5 bar | Test pressure: 1.95 bar

**W:** Swivel eyes | **S:** Belt slots

Special leak sealing bags	Size (L x W x H) cm	Sealing area cm	Sealing pressure mWC	Air requirement litre	Single bag weight, approx. kg	Weight set, approx. kg
<b>LD 110/60 S, XL</b> 1500014500	110 x 60 x 2	86 x 57	14	190	16	39.5

\*Subject to change without notice

#### Special leak sealing bags:

Operating pressure: 1.5 bar

Test pressure: 1.95 bar

## Mini leak sealing bags

### The small, fast leak stoppers

- › fast fixing with Velcro® belts
- › up to 1.4 bar (20.3 psi) counterpressure
- › for containers with 10–90 cm (4–35 inch) diameter
- › supplied in a practical case

Whether liquids or gases – with our mini leak sealing bags you stop leaks in small containers (10–90 cm/4 and 35 inch), quickly and efficiently. And thanks to our safe to use Velcro® fastenings and metal-free tension belts, you can fix the sealing bags even in difficult positions without injuries. The maximum operating pressure of 1.5 bar (21.75 psi) is reached quickly, with only a few strokes of the foot pump – and everything is leaktight.



Mini leak sealing bags with practical Velcro® tension belts for fast and easy fixing

## Technical data\*

### Uniform sealing pressure of 14 mWC (20.3 psi)

Mini leak sealing bags	Size (L x W x H) cm/inch	Sealing area cm/inch	Air requirement at 1.5 bar litre/cu. ft.	Weight Single bag, approx. kg/lbs
<b>LDK 10/10</b> 150008300	15 x 15 x 1.2** 6 x 6 x 0.5	9.5 x 9.5 3.7 x 3.7	0.8 0.03	0.5 1.1
<b>LDK 10/25</b> 150008500	15 x 31 x 1.2** 6 x 12 x 0.5	9.5 x 25.5 3.7 x 10	1.3 0.05	0.8 1.8
<b>LDK 20/20</b> 150008600	25 x 25 x 1.2** 10 x 10 x 0.5	19.5 x 19.5 7.7 x 7.7	5 0.18	1.1 2.4

\*Subject to change without notice | \*\*In valve area + 6 mm (0.2 inch).

#### Mini leak sealing bags:

Operating pressure: 1.5 bar (21.75 psi)

Test pressure: 1.95 bar (28.5 psi)

#### Set weight:

approx. 10.4 kg (23 lbs)



Sealing bags stop leaks in drums

### Mini leak sealing bag set

- › Mini leak sealing bags, Type LDK 10/10, 10/25, 20/20
- › Foot pump with safety valve, 1.5 bar (21.75 psi)
- › 2 tension belts, 150 cm (59 inch) and 3 tension belts, 300 cm (117 inch), blue
- › Transport case, 600 x 400 x 183 mm (24 x 16 x 7 inch)

**1500009400**



## Leak sealing lance (1.5 bar/21.75 psi)

The fast first-aider in case of leaks

- › very quickly ready for use
- › can be operated by one person
- › for sealing cracks and holes
- › safe distance from the leak

As the first person on the scene, with the Vetter leak sealing lance you are ready for operation in seconds. It allows you to seal small leaks in storage tanks or tank trucks or wagons in seconds from a safe distance. The wedge and cone bags at the tip of the leak sealing lance reduce the flow rate effectively in 15–60 millimetre (0.6–2.3 inch) cracks and 30–90 millimetre (1.2–3.5 inch) holes. Anti-slip profiles on the bags ensure secure grip. Because it can be operated by only one person, the simply designed sealing lance is a valuable tool on site for the first person to arrive on the scene. This creates more time for further measures to be prepared.



The leak sealing lance can be extended to a maximum length of 140 cm (55 inch) with the help of plug-on hollow PVC rods

### Leak sealing lance set with foot pump



- › Wedge bag 6, 8, 11 and cone bag 7 (1.5 bar/21.75 psi)
- › 3 PVC hollow rods @ 35 cm/14 inch
- › PVC hollow rod with chain and nipple
- › Shut-off unit
- › Foot pump with safety valve, 1.5 bar (21.75 psi)
- › Drip shield
- › Transport case, 400 x 300 x 183 mm (16 x 12 x 7 inch)

**Standard: 1500009600**

**Made of chloroprene rubber: 1500027700**

## Technical data\*

Leak sealing lance (1.5 bar/21.75 psi)	Size (L*** x W x H) cm/inch	Air requirement at 1.5 bar litre/cu. ft.	Weight, approx. kg/lbs	Leak opening size cm/inch	Width cm/inch
<b>Wedge bags 6</b> 1500009800/1500009801**	23 x 6 x 5 9 x 2.4 x 2	1.5 0.05	0.2 0.4	1.5–4.5 0.59–1.77	6–9 2.36–3.54
<b>Wedge bags 8</b> 1500010000/1500010001**	23 x 8 x 5.5 9 x 8 x 2.2	3.5 0.12	0.3 0.7	1.5–4.5 0.59–1.77	8–12 3.15–4.72
<b>Wedge bags 11</b> 1500010100/1500010101**	23 x 11 x 7 9 x 4.3 x 2.8	7.8 0.28	0.4 0.9	3–6 1.8–2.36	11–17 4.33–6.69
<b>Cone bag 7</b> 1500010200/1500010201**	23 x Ø 7 9 x Ø 2.8	3 0.11	0.2 0.4	3–9 1.8–3.54	–

\*Subject to change without notice. | \*\*made of chloroprene rubber | \*\*\*Length with coupling + 6 cm (2.36 inch)

### Leak sealing lance (1.5 bar/21.75 psi):

Operating pressure: 1.5 bar (21.75 psi)

Test pressure: 1.95 bar (28.5 psi)

### Set weight:

approx. 8.1 kg (17.9 lbs)



Seal leaks from a safe distance

**Ready to use system  
in a practical transport case.**



### In operation ...

- › for cracks from 15–60 mm (0.6–2.3 inch)
- › for holes from 30–90 mm (1.2–3.5 inch)



### Good reasons:

- › 1-man operation
- › can be inflated using foot pump
- › adequate distance from the danger zone thanks to 140 cm (55 inch) lance length
- › shut-off valve prevents pressure drop and air loss on uncoupling



### Guaranteed quality:

- › individually tested (inspection seal)
- › good chemical resistance
- › extremely flexible rubber

# Leak sealing bandages

## Seal pipes in seconds

- › sealing area up to 38 cm (15 inch) wide
- › belts mounted directly on the bag
- › for pipes with 5–48 cm (2–19 inch) diameter
- › up to 1.4 bar (20.3 psi) counterpressure

With our Vetter leak sealing bandages you can seal leaks in pipes that occur suddenly. This enables you to act quickly in an emergency. Use of our Vetter leak sealing bandages is also intuitive if you are using them for the first time: Wrap around the leak, tension the belts and inflate the bag. Ready!



Leak sealing bandage 5–20 XL (38 cm/15 inch wide)



Leak sealing bandage 5–20 and 20–48 (19 cm/7.5 inch wide)





## Technical data\*

### Uniform sealing pressure of 14 mWC (20.3 psi)

Leak sealing bandages	Size cm/inch	Wide sealing area cm/inch	Air requirement at 1.5 bar (21.75 psi) litre/cu. ft.	Weight single bag, approx. kg/lbs
<b>LB 5–20</b> 1500013900	98 x 21 38.6 x 8.3	19 7.5	22.5 0.8	2.3 5.0
<b>LB 20–48</b> 1500014000	177 x 21 69.9 x 8.3	19 7.5	40 1.4	4 8.8
<b>LB 5–20 XL</b> 1500018200	100 x 40 39.4 x 15.7	38 15	75 2.7	5.5 12.3

\*Subject to change without notice.

#### Leak sealing bandages:

Operating pressure: 1.5 bar (21.75 psi)

Test pressure: 1.95 bar (28.5 psi)

## The Vetter foot pump: practical to operate and quickly to hand.

### Recommended accessories

#### Foot pump, 1.5 bar (21.75 psi)

› with safety valve

0150002800



#### Inflation and safety hose,

1.5 bar (21.75 psi)

› 10 m (32 ft.), blue

0150002201



### In operation ...

- › for suddenly occurring pipe defects
- › on pipes and round containers with 5–48 cm (2–19 inch) diameters
- › for pipe leakages



### Good reasons:

- › can be inflated using foot pump
- › easy handling
- › all-round reliable seal
- › bandage supplied with belts



### Guaranteed quality:

- › individually tested (inspection seal)
- › good chemical resistance

## Leak sealing pastes

Seal valve stems and flanges easily

- › easy to apply
- › good chemical resistance
- › immediate sealing
- › quick and uncomplicated



The Vetter leak sealing paste:  
Set with 8 tubs @ 500 ml: 1500004600

Vetter leak sealing pastes seal leaks immediately and lastingly. You avoid further leaking and gain valuable time for proper disposal or removal of hazardous materials by specialists. Because leaking chemicals mean extreme danger for people and the environment – regardless of whether the leak is in the smallest valve stem and flanges or in vessels such as tanks, drums and containers.



### In operation ...

- › also for leaks that are difficult to access
- › for sealing pipes and containers
- › for leaking liquid chemicals



### Good reasons:

- › damage-limiting immediate action
- › easy to handle
- › fast sealing
- › can be used on a rusty or dirty surface
- › can also be used in below zero temperatures



### Guaranteed quality:

- › non-toxic
- › non-flammable
- › chemical resistant
- › many years of durability





## High-pressure solutions

Our high-pressure sealing systems are as versatile as the areas in which they are used: Whether you need to seal pipes in hard-to-reach boiler tanks or high-pressure lines - with solutions from Vetter, you are always optimally prepared for emergencies. Like all our products, our high-pressure sealing systems are designed for rapid use and have and have been tried and tested for many years.



# High-pressure leak sealing system

## Clever hose system for complicated pipe leaks

- › Vetter innovation
- › for leaks in pipes up to 20 cm (8 inch) diameter
- › sealing in the most difficult places
- › 14 bar (203 psi) operating pressure

Our high-pressure leak sealing system is your reliable tool for leaks in narrow or uneven pipes that are difficult to access: The movable hoses lie, precise-fitting against even complicated leaks such as at T-pieces, pipe bends, connection sockets or welds. You need only a compressed air cylinder to inflate the system in a few seconds. We developed the high-pressure leak sealing system in close cooperation with Henkel KGaA, Düsseldorf.

**With 14 bar (203 psi)  
operating pressure**



Precise-fitting sealing of difficult leaks

## Technical data\*

High-pressure leak sealing system	Air requirement at 14 bar <i>litre/cu. ft.</i>	Temperature <i>°C/°F</i>	Weight, approx. <i>kg/lbs</i>
<b>1.5 m (59 inch) hose</b> <i>1500015901</i>	11.1 0.4	-30 bis +80 -22 up to +176	1.1 2.5
<b>2.5 m (98 inch) hose</b> <i>1500016001</i>	20 0.7	-30 bis +80 -22 up to +176	1.4 3
<b>3.5 m (138 inch) hose</b> <i>1500016101</i>	27.9 1	-30 bis +80 -22 up to +176	1.8 3.9

\*Subject to change without notice

### High-pressure leak

sealing system:

Operating pressure: 14 bar (203 psi)

**Please note:** Pressure regulator required

### Weight approx.:

Premium set: approx. 12.3 kg (27.1 lbs)

Basic set: approx. 7.3 kg (16.1 lbs)



Intelligent sealing hose system



Inflated in seconds



### In operation ...



- › at T-pieces, pipe bends or problematic connection sockets
- › for leaking liquids in pressurised pipes or fittings



### Good reasons:

- › universally usable and easy to operate
- › additional sealing plates for increased resistance
- › sealing hoses electrostatically conductive (ISO 8031/8.97)



### Guaranteed quality:

- › individually tested (inspection seal)
- › earthing connection on both sides of the sealing hose couplings
- › all metal parts made of stainless steel

# High-pressure leak sealing system

Clever hose system for complicated pipe leaks

## Basic set



The basic set contains 1 hose and 1 sealing plate.  
The pressure regulator is not included.

- › Sealing hose, 2.5 m (98 inch)
- › Inflation valve and inflation hose
- › FKM sealing plate, 150 x 310 x 3 mm (6 x 8 x 0.1 inch)
- › Bleed valve
- › Transport case, 400 x 300 x 183 mm (16 x 12 x 7 inch)

▶ **1500019000**

## Premium set



With the Premium set you are equipped for every operation. It is suitable for many diameters and for sealing several leaks at the same time. The set contains 3 sealing plates and can thus be used for a large bandwidth of hazardous substances.

- › Sealing hose, 1.5 m (59 inch), 2.5 m (98 inch), 3.5 m (138 inch)
- › Inflation valve and inflation hose
- › Pressure regulator, 200/300 bar (2,900/4,350 psi)
- › 3 sealing plates NBR, EPDM, FKM, 150 x 310 x 3 mm (6 x 8 x 0.1 inch)
- › Bleed valve
- › Transport case, 600 x 400 x 183 mm (24 x 16 x 7 inch)

▶ **1500015800**

▶ **1500019100 (USA)**

# High-pressure leak sealing bags (12 bar/174 psi)

Reliable against especially high pressures

- › 12 bar (174 psi) working pressure
- › unrivalled on the market
- › sealing area up to 50 x 30 cm (20 x 12 inch)
- › resist against higher internal tank pressure



The high-pressure leak sealing bag withstands higher internal boiler pressures, for example, in chlorine tanks.

- › Leak sealing bags, Type LD 50/30 S, 12 bar, with belt slots
- › Single control device, 12 bar, fitting control
- › Inflation hose, 12 bar, 10 m, green
- › 2 tension and extension belts with ratchet, 10 m, orange and blue
- › Sealing plate, 60 x 30 x 3 cm
- › Acid protective cover, PVC, yellow
- › Transport case, 80 x 60 x 12 cm

**1500011502**



## Technical data\*

Special leak sealing bags	Size (L x B x H) cm/inch	Sealing area cm/inch	Sealing pressure mWC/psi	Air requirement Liter/cu. ft.	Weight Single bag, approx. kg/lbs	Weight Set, approx. kg/lbs
LD 50/30 S, 12 bar* 1500011402	61.5 x 30 x 2 24 x 12 x 0.8	50 x 30 20 x 12	–	154 5.4	4.6 10.1	21.9 48.3

\*Subject to change without notice

**Special leak sealing bags:**  
Operating pressure: 12 bar (174 psi)

Test pressure: 18 bar (261 psi)

## Pipe sealing sleeves

### Permanent sealing of leaks in high-pressure pipes

- › up to 16 bar (232 psi) counterpressure
- › also suitable for continuous use
- › for pipes from ½" to 4"
- › with practical test template

Vetter pipe sealing sleeves seal high-pressure pipes up to 16 bar (232 psi) reliably, quickly and purely mechanically, and also withstand aggressive liquids. Simply attach the seal (EPDM) and sleeve loosely next to the leak, push the sleeve over the leak and tighten the four hexagon socket screws using the tool supplied. With our pipe sealing sleeve set you are equipped for leaks in all common pipe sizes from DN 15 (15 mm/0.6 inch) to DN 100 (100 mm/3.9 inch).





## Technical data\*

Pipe sealing sleeves	Nominal size	for diameter	Size (L x W x H)	Weight, approx.
	mm/inch	DN	mm/inch	kg/lbs
<b>1/2"</b> 1500002301	21.3 0.8	15	133 x 73 x 40 5.2 x 2.9 x 1.6	1.5 3.3
<b>3/4"</b> 1500002401	26.9 1.1	20	133 x 80 x 50 5.2 x 3.1 x 2	1.6 3.5
<b>1"</b> 1500002501	33.7 1.3	25	133 x 90 x 55 5.2 x 3.5 x 2.1	1.8 3.9
<b>1 1/4"</b> 1500002601	42.4 1.7	32	133 x 105 x 52 5.2 x 4.1 x 2	1.8 3.9
<b>1 1/2"</b> 1500002701	48.3 1.9	40	133 x 110 x 52 5.2 x 4.3 x 2	2.3 5.1
<b>2"</b> 1500002801	60.3 2.4	50	133 x 125 x 80 5.2 x 5 x 3.1	2.4 5.3
<b>2 1/2"</b> 1500002901	76.1 3	65	133 x 135 x 100 5.2 x 5.3 x 3.9	3.6 7.9
<b>3"</b> 1500003201	88.9 3.5	80	133 x 138 x 110 5.2 x 5.4 x 4.3	3.6 7.9
<b>4"</b> 1500003301	114.3 4.5	100	135 x 190 x 142 5.2 x 7.5 x 5.6	4 8.8

\*Subject to change without notice

### Pipe sealing sleeves:

Set weight: approx. 23.3 kg (52.3 lbs)

## Pipe sealing sleeves set

- › Set contains 1 each of all 9 sleeve sizes
- › Allen screwdriver
- › Transport case, 400 x 300 x 183 mm (16 x 12 x 7 inch)
- › Test template

1500002201



## Leak drainage bags (1.5 bar/21.75 psi)

### Easy sealing and draining of hazardous materials

- › sealing and discharging
- › sealing area of 50 x 30 cm (20 x 12 inch)
- › for containers from 50 cm (20 inch diameter)
- › up to 1 bar (14.5 psi) counterpressure

Vetter leak drainage bags seal leaks quickly and enable you to drain away the hazardous material reliably via an acid drain hose. They are always used when draining via the opening provided is not possible or only with a great deal of technical effort. This can be necessary, for example, if drain openings are in a high place or in the event of a pump failure. Simply use the pre-installed belts to strap on the Vetter leak drainage bag in the place of use. This enables the bag to be used on many different surfaces. Then inflate it quickly and easily using the foot pump (included in the supply). After a few strokes you have already sealed the leak and can start to safely drain the hazardous material. Use the pneumatic collection containers especially developed by Vetter to collect the hazardous material (P. 78).



Drainage space size 40 x 20 x 3.5 cm (16 x 9 x 1.4 inch)

## Technical data\*

The drainage bag has a drainage space of 40 x 20 x 3.5 cm (16 x 8 x 1.4 inch).

Leak drainage bags	Size (L x W x H) cm/inch	Sealing area cm/inch	Sealing pressure mWC/psi	Air requirement litre/cu. ft.	Weight single bag, approx. kg/lbs	Weight set, approx. kg/lbs
<b>DLD 50/30</b>	62 x 30 x 6	50 x 30	10	2.8	8.2	31.9
1500006001	24 x 12 x 2.4	20 x 12	14.5	0.1	18.1	70.3

\*Subject to change without notice

### Leak drainage bags:

Operating pressure: 1.5 bar (21.75 psi)

Test pressure: 1.95 bar (28.5 psi)

## Leak drainage bag set

- › Leak sealing bag, Type DLD 50/30, 1.5 bar (21.75 psi)
- › Foot pump with safety valve, 1.5 bar (21.75 psi)
- › Inflation hose, 1.5 bar (21.75 psi), 10 m (32 ft.), blue
- › 4 tension and extension belts with ratchet, 10 m (32 ft.), orange and blue
- › Shut-off unit, Size D, stainless steel
- › Acid drain hose, 5 m (16.4 ft.), with D-suction coupling V4A
- › Transport case, 800 x 600 x 220 mm (32 x 24 x 9 inch)

1500005902



Optimally adapts to the surface



### In operation ...



- › for sealing and draining hazardous materials
- › in tank trucks and wagons
- › in large drums and pipes



### Good reasons:

- › acid drain hose with shut-off unit for controlled drainage
- › gentle pressure distribution across the entire bag width
- › inflated quickly using a foot pump



### Guaranteed quality:

- › individually tested (inspection seal)
- › stainless steel connections

**Seal leaks reliably and divert the hazardous material at the same time.**

## Vacuum leak drainage bags

Autonomous draining of dangerous materials within seconds

- › attaches itself quickly by suction
- › fixing without belts
- › drainage space with 20 cm(8 inch) diameter
- › for large containers and storage tanks

Vacuum leak drainage bags seal leaks in clean, smooth or slightly curved surfaces in seconds. By using a vacuum, you do not need any tension belts and can thus intervene directly in an emergency. This saves time-consuming preparations. The optimised, streamlined bag attaches itself around the leak tightly by suction and thus prevents further leaking of liquids or gases. You drain hazardous substances through the bag, quickly and safely – for example, into our versatile collection containers.



Drainage space designed for optimised flow

## Technical data\*

Vacuum leak drainage bags	Size Ø cm/Ø inch	Drainage space Ø cm/Ø inch	Vacuum bar/psi	Air requirement Litre/min/ cu. ft./min.	Weight single bag, approx. kg/lbs	Weight set, approx. kg/lbs
<b>DLD 50 VAC</b> 1500007501	50 19.7	20 7.9	0.45 6.5	200 7	5.2 11.5	15.5 34.2

\*Subject to change without notice

### Vacuum leak drainage bags:

Vacuum generator operating pressure: 6 bar (87 psi)

## Vacuum leak drainage bag set

- › Vacuum leak drainage bag, Type DLD 50 VAC
- › Acid drain hose, 5 m (16.4 ft.), with D-suction coupling V4A
- › Shut-off unit, Size D, stainless steel
- › Transport case, 800 x 600 x 120 mm (32 x 24 x 4.7 inch)

1500019700



Small unevenness is not a problem



### In operation ...

- › for sealing and controlled drainage of hazardous materials
- › on smooth surfaces
- › on large containers and storage tanks



### Good reasons:

- › no belts necessary for fixing
- › vacuum generator with pressure gauge on the bag
- › best flow results due to round shape
- › acid drain hose with shut-off unit



### Guaranteed quality:

- › individually tested (inspection seal)
- › stainless steel connections

## Flange drainage bags

Precise-fitting system for safe and reliable drainage at flanges

- › completely surrounds the flange
- › for pipes from DN 50 to DN 100
- › for many pipe connections
- › sealing pressure 1 bar (14.5 psi)

Flanges are critical pipe sections, at which use of conventional sealing bags is rarely useful. Vetter flange drainage bags safely and reliably seal difficult leaks in all types of flanges. Simply lay the bag around the flange and pipe, close the zip along its complete length and inflate the sleeves. Minor differences or unevenness on the pipe are easily levelled out by the gel pads supplied. Everything is immediately leaktight. You then drain hazardous liquids in a controlled and safe way – for example, into our versatile collection containers. The flange drainage bags in the three sizes available cover standard pipes and flanges.



Leak in a pipe flange

## Technical data\*

### Uniform sealing pressure of 10 mWC (14.5 psi)

Flange drainage bags	External size Ø cm/Ø inch	Length cm/inch	Air requirement at 1.5 bar litre/cu. ft.	Weight single bag, approx. kg/lbs	Weight set, approx. kg/lbs
<b>DN 50</b> 150006600	21 8.3	90 35	1.25 0.1	3.1 6.8	19 41.9
<b>DN 80</b> 1500019200	21 8.3	90 35	1.25 0.1	3.1 6.8	19 41.9
<b>DN 100</b> 1500023400	25 9.8	92 36	1.25 0.1	3.5 7.7	19.6 43.2

\*Subject to change without notice

#### Flange drainage bags:

Operating pressure: 1.5 bar (21.75 psi)

Test pressure: 1.95 bar (28.5 psi)

#### All sets are available with:

- › Inflation hose, 1.5 bar (21.75 psi), 10 m (32 ft.), blue
- › Acid drain hose, 5 m (16.4 ft.), with D-suction coupling V4A
- › Foot pump with safety valve, 1.5 bar (21.75 psi)
- › Transport case, 800 x 600 x 220 mm (32 x 24 x 8.6 inch)

## Flange drainage bag sets

Unless stated otherwise, all flange drainage bag sets are supplied in a version with 1.5 bar (21.75 psi) and 4 gel sealing pads.

DN 50	1500019600
DN 80	1500019900
DN 100 (6 gel sealing pads)	1500023700



### In operation ...



- › for sealing and controlled drainage of hazardous materials on flanges and pipe connections



### Good reasons:

- › gas and liquid-tight zip
- › acid drain hose with shut-off unit
- › gel pads for levelling out unevenness included in the scope of supply



### Guaranteed quality:

- › individually tested (inspection seal)
- › stainless steel connections

# Pipe sealing bags and bypass bags FS

Seal or bypass pipes reliably

- › for pipes up to 140 cm (55 inch) diameter
- › good chemical resistance
- › withstands counterpressure up to 5 mWC (7.25 psi)
- › very high temperature resistance

We developed the Vetter FS pipe sealing bag and FS bypass bag especially for fire services. With the Vetter FS pipe sealing bag you stop hazardous substances very quickly. And with the Vetter bypass bag you impound dangerous liquids or gases and drain them via a fire hose in a controlled way. To this end, both bags individually adapt to pipe diameters up to 140 cm (55 inch). They are also particularly chemical and heat resistant. In this way you reliably protect sewage systems and groundwater from serious contamination.



FS pipe sealing bag connection



FS bypass bag connection with Storz coupling



FS pipe sealing bag



FS bypass bag



## Technical data\*

FS pipe sealing bag	Pipe diameter	Diameter	Cylinder length	Total length	Air requirement	Weight, approx.
	cm/inch	cm/inch	cm/inch	cm/inch	litre/cu. ft.	kg/lbs
<b>RDK 7/15 FS</b> 1482000700	7-15	6.8	30	34.5	9.5	0.5
	3-6	2.7	12	13.6	0.3	1.1
<b>RDK 10/20 FS</b> 1482000800	10-20	9	51	55.5	28.8	0.9
	4-8	3.5	20	21.9	1	2
<b>RDK 20/40 FS</b> 1482000900	20-40	19.5	65.5	70.5	160	3.5
	8-16	7.7	25.8	27.8	5.7	7.7
<b>RDK 30/60 FS</b> 1482001000	30-60	29.5	73.5	78	362.5	7.3
	12-24	11.6	28.9	30.7	12.8	16.1
<b>RDK 50/100 FS</b> 1482001100	50-100	45	111	117	1,525	16.5
	20-40	17.7	43.7	46.1	53.8	36.4
<b>RDK 80/140 FS</b> 1482001200	80-140	78.5	181	185.5	3,125	48
	32-55	30.9	71.3	73.0	110.3	105.8

\*Subject to change without notice

FS bypass bag	Bypass size	Pipe diameter	Diameter	Cylinder length	Total length	Air requirement	Weight, approx.
		cm/inch	cm/inch	cm/inch	cm/inch	litre/cu. ft.	kg/lbs
<b>BK 7/15 FS</b> 1483002200	1"	7-15	6.8	30	36	6.4	3.4
		3-6	2.7	12	14.2	0.2	7.5
<b>BK 10/20 FS</b> 1483001400	2 1/2"	10-20	9.7	48.5	55.5	22.5	3.4
		4-8	3.8	19.1	21.9	0.8	7.5
<b>BK 20/50 FS</b> 1483001500	4"	20-50	19.5	55	67	157.5	9.4
		8-20	7.7	21.7	26.4	5.6	20.7
<b>BK 50/120 FS</b> 1483001600	4"	50-120	45	92	94	1,420	52.2
		20-47	17.7	36.2	37	50.1	115.1
<b>BK 80/140 FS</b> 1483003400	2"	80-140	78.5	181	193	3,075	69.0
		32-55	30.9	71.3	76	108.6	152.2

\*Subject to change without notice

### FS pipe sealing bags and FS bypass bags:

Operating pressure: 1.5 bar (21.75 psi)

Test pressure: 1.95 bar (28.5 psi)

Test counterpressure: 5 m water column (7.25 psi)

## Universal gully sealing bags

Protect sewage systems and groundwater from hazardous substances

- › for gullies up to 30 cm (12 inch) diameter
- › in a practical transport case
- › for a counterpressure up to 10 mWC (14.5 psi)
- › good oil and chemical resistance

Stop dangerous liquids from finding a way into the sewage systems or groundwater: Vetter gully sealing bags are ready for use immediately, are easy to position and are absolutely reliable. With the help of a guide rod, you position the universal gully sealing bag directly in the gully outlet. You then inflate the bag quickly and easily using the foot pump (included in the scope of supply). You can then use the sewer inlet as a pump sump to pump away the liquid. You can purchase the universal gully sealing bag in the basic set for one gully size or as a premium set for two gully sizes.

Positioning rod made of V2A!



Universal gully sealing bags

## Technical data\*

Universal gully sealing bags	Gully outlet, min.–max. cm/inch	Cylinder length cm/inch	Total length cm/inch	Diameter cm/inch	Air requirement at 2.5 bar litre/cu. ft.	Weight, approx. kg/lbs
<b>10–15</b> 1470000200	10–15 4–6	25 9.8	28.5 11.2	9 3.5	13 0.5	1.5 3.3
<b>15–30</b> 1470001300	15–30 6–12	35 13.8	39 15.4	14.5 5.7	50 1.8	2.2 4.9

\*Subject to change without notice

### Universal gully sealing bags:

Operating pressure: 2.5 bar (36.25 psi)

Test pressure: 3.25 bar (47.1 psi)

Test counterpressure: 10 m water column (14.5 psi)

### Set weight:

Basic set: approx. 13 kg (28.7 lbs)

Premium set: approx. 18 kg (35.3 lbs)

## Premium set

- › 2 universal gully sealing bags, Type 10/15, 2.5 bar (36.25 psi)
- › 2 universal gully sealing bags, Type 15/30, 2.5 bar (36.25 psi)
- › Positioning rod, interchangeable, V2A (L: 1.5 m/58.5 inch)
- › Foot pump with safety valve, 2.5 bar (36.25 psi)
- › Transport case, 800 x 600 x 220 mm (32 x 24 x 9 inch)

1470002400



## Basic set

- › 4 universal gully sealing bags, Type 10/15, 2.5 bar (36.25 psi)
- › Positioning rod, interchangeable, V2A (L: 1.5 m/ 58.5 inch)
- › Foot pump with safety valve, 2.5 bar (36.25 psi)
- › Transport case, 600 x 400 x 233 mm (24 x 16 x 7 inch)

1470002300



**You can only seal up to 30 cm (12 inch) diameter with the premium set!**

## Compact gully sealing bags

Seal sewage systems and gullies reliably

- › for gullies up to 80 cm (32 inch) diameter
- › ready to use in transport case
- › for a counterpressure up to 2 mWC (2.9 inch)
- › good oil and chemical resistance

With the Vetter compact gully sealing bag you seal gullies including sewer inlet, quickly and easily. To do this, position the bag in the gully (up to 80 cm/32 inch diameter) and use the compressed air cylinder supplied to inflate it. The bags easily withstand a counterpressure of up to two metre water column head.



## Technical data\*

Compact gully sealing bags	Gully outlet, min.–max. cm/inch	Cylinder length cm/inch	Total length cm/inch	Diameter cm/inch	Air requirement at 0.5 bar (7.25 psi) litre/cu. ft.	Weight, approx. kg/lbs
<b>30–50</b> 146000101	30–50 12–20	41 16	46 18.1	29.5 11.6	128 4.5	3.7 8.2
<b>50–80</b> 1460001400	50–80 20–32	41 16	46 18.1	45 17.7	426 15	8.3 18.3

\*Subject to change without notice

### Compact gully sealing bags:

Operating pressure: 0.5 bar (7.25 psi)

Test pressure: 0.65 bar (9.4 psi)

Test counterpressure: 2 m water column (2.9 psi)

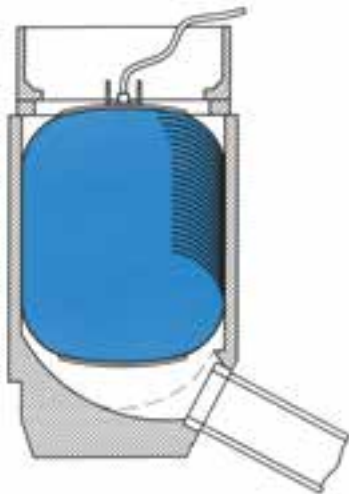
**Set weight:** approx. 11.7 kg (25.8 lbs)

## Compact set

- › Compact gully sealing bags, Type 30/50, 0.5 bar (7.25 psi)
- › Inflation and safety fitting
- › Compressed air cylinder, 1 l/200 bar (0.04 cu. ft./2,900 psi) (unfilled)
- › Transport case, 600 x 400 x 233 mm (24 x 16 x 8.9 inch)

▶ **1460001001**

▶ **1460002400 (USA)**



Compact gully sealing bags

**The compressed air cylinder is included in the scope of supply.**



### In operation ...

- › for leaking chemicals
- › in case of floods
- › for closing off gullies



### Good reasons:

- › the enclosed compressed air cylinder (refillable) is sufficient to inflate 2 bags
- › inflation fitting can be uncoupled for multiple use
- › retaining strap for lowering and connecting



### Guaranteed quality:

- › individually tested (inspection seal)
- › ozone resistant
- › good oil and chemical resistance

## Pneumatic collection containers

Collect and store large quantities of hazardous materials

- › stable design
- › erected in seconds
- › for collecting up to 5,000 litres (177 cu. ft.)
- › high chemical resistance

With Vetter pneumatic collection containers, you are optimally equipped if large quantities of contaminated or hazardous liquids have to be temporarily stored on site. The containers are erected in seconds and thus give you a valuable time advantage. They form secure reservoirs, which you can then simply drain by pumping and dispose of the drained liquid.

There is a choice of two materials for the pneumatic collection containers: The standard material used is PVC. It is resistant, for example, to nitric acid, hydrochloric acid and sodium hydroxide solution. We optionally use Alcryn to make collection containers for use with fuels or oils (e.g. ASTM oil No. 1–3, transmission oil, kerosene, petrol, etc.).



Collect up to 5,000 litre (177 cu. ft.) liquid

## Technical data\*

Uniform height of 95 cm (37 inch).

Pneumatic collection containers	Size internal cm/inch	Size external cm/inch	Air requirement at 0.5 bar litre/cu. ft.	Capacity litre/cu. ft.	Weight set, approx. kg/lbs	Folded size (L x W x H) cm/inch
<b>PAB 3,000 litre</b> 1510000101	Ø 225 Ø 88	Ø 265 Ø 104	705 25	3,000 106	33 73	110 x 72 x 30 43 x 28 x 12
<b>PAB 5,000 litre</b> 1510004001	Ø 280 Ø 110	Ø 320 Ø 126	843 30	5,000 177	44 97	110 x 85 x 40 43 x 33 x 16

\*Subject to change without notice

### Pneumatic collection containers:

Operating pressure: 0.5 bar (7.25 psi)

Test pressure: 0.65 bar (9.4 psi)

### The collection container sets are available with:

- › Collection container with PVC internal container
- › Pressure regulator, 200/300 bar (2,900/4,350 psi)
- › repair material
- › storage bag



### In operation ...

- › for collecting and temporarily storing environmentally harmful liquids



### Good reasons:

- › self-erecting support frame
- › internal container with different resistance also available individually
- › good stability



### Guaranteed quality:

- › individually tested (inspection seal)
- › high resistance
- › integrated safety valve prevents over-inflation of the support frame

**Internal containers are also available in particularly oil-resistant Alcryn on request.**

# Pneumatic collection tubs

## Vehicle decontamination with large capacity

- › erected in seconds
- › good resistance

Vetter pneumatic collection tubs can be used in versatilely in many way. In the event of major events, such as epidemics, you decontaminate safely and in a controlled way. Vetter pneumatic collection tubs are also the right choice in case of vehicle leaks, e.g. tankers: Inflate the tub within seconds and then simply push it under the vehicle concerned at the accident site. In this way you gain valuable time in which to seal the leak itself.





## Technical data\*

Pneumatic collection tubs made of PVC	Size internal m/inch	Size external m/inch	Height m/inch	Air requirement at 0.3 bar litre/cu. ft.	Capacity litre/cu. ft.	Weight set, approx. kg/lbs	Folded size, approx. m/inch
<b>Collection tub**</b> 1513000501	1.9 x 1.9 75 x 75	2.5 x 2.5 98 x 98	20 8	404 14	720 25	17 37	140 x 30 55 x 12

\*Subject to change without notice | \*\*Made of PVC

### Pneumatic collection tubs:

Operating pressure: 0.3 bar (4.35 psi)

Test pressure: 0.39 bar (5.7 psi)

The square collection tub is supplied in a robust packing cover.

## Additional equipment

### Hasmat container 100 litre (3.5 cu. ft.)

- › Stackable collection/storage container with carry loops
- › Smooth internal and external surfaces for easy cleaning
- › Incl. clamping ring cover
- › diameter: 59 cm (24 inch), height: 54 cm (21 inch),
- › Weight: approx. 7.5 kg (16.5 lbs)



400000200

### Hazardous material scoop

- › For scooping shallow liquid pools
- › Smooth internal and external surface with U-shaped handle
- › Dimensions (L x W x H): 31 x 33 x 13 cm (12 x 13 x 5 inch), Weight: approx. 1 kg (2.2 lbs)



4000002600



### In operation ...

- › during contagion and epidemics, e.g. bird flu
- › for collecting environmentally harmful liquids
- › as additional protection for leak seals



### Good reasons:

- › self-erecting support frame



### Guaranteed quality:

- › individually tested (inspection seal)
- › high chemical resistance
- › integrated safety valve prevents over-inflation of the support frame

## Water tanks

### Space-saving storage of fresh and contaminated water

- › small folded size
- › extremely robust material
- › capacity of 500–5,000 litre (17.6–172 cu. ft.)
- › with Storz-C connection

In our self-erecting closed or open water tanks you can store large quantities of water or contaminated firefighting water safely and reliably after accidents, storms or fire deployments. Some Vetter water tanks can hold one hundred times their folded size. Fill and drain both tanks quickly and easily via a very robust anodised 2" aluminium flange with impact-resistant PVC ball valve and Storz C connection.



#### New with Storz C

**Closed water tank (GWT):** Reinforced PVC gives the closed water tank maximum stability. An opening on the top of the tank acts as venting or additional filling option. The closed water tank is available with optional corner brackets for safe truck transport to move the tank when it is filled.



#### New with Storz C

**Open water tank (OWT):** The open water tank made of tear-resistant PVC erects itself automatically thanks to the rising ring. The scope of supply always includes a repair kit in a practical storage bag.

### Corner bracket set

Enter the number of corner bracket sets in your order, if you want to transport filled tanks safely on a truck loading space. You will then receive a tank with brackets already mounted.

1510009700



## Technical data\*

**Water tanks, open\*\* – temperature resistant from –30 °C to +70 °C (–22 °F and +158 °F).**

Water tanks, open	Diameter (bottom) <i>m/inch</i>	Diameter (opening) <i>m/inch</i>	Height <i>m/inch</i>	Weight, approx.*** <i>kg/lbs</i>	Folded size <i>cm/inch</i>
<b>OWT 1,000 litre</b> <i>1510010300</i>	1.76 69.3	0.7 27.6	0.8 31.5	12 26.5	70 x 45 x 45 27.6 x 17.7 x 17.7
<b>OWT 3,000 litre</b> <i>1510010400</i>	2.64 103.9	1.4 55.9	0.9 35.4	21 46.3	115 x 64 x 33 45.3 x 25.2 x 13
<b>OWT 5,000 litre</b> <i>1510010500</i>	3.04 119.7	2.0 78.7	1 39.4	27 59.5	115 x 64 x 33 45.3 x 25.2 x 13

\*Subject to change without notice | \*\*Supplied incl. storage bag, Connection: Storz C | \*\*\*Weight incl. storage bag

**Water tanks, closed\*\* – temperature resistant from –30 °C to +70 °C (–22 °F and +158 °F).**

Water tanks, closed	Dimensions (L x W, empty) <i>m/inch</i>	Height <i>m/inch</i>	Weight, approx. <i>kg/lbs</i>	Folded size <i>cm/inch</i>
<b>GWT 500 litre</b> <i>1510008300</i>	1.5 x 1.2 59.1 x 47.2	0.3 11.8	9 19.8	70 x 45 x 45 27.6 x 17.7 x 17.7
<b>GWT 1,000 litre</b> <i>1510008400</i>	2.1 x 1.5 82.7 x 59.1	0.35 13.8	12 26.5	70 x 45 x 45 27.6 x 17.7 x 17.7
<b>GWT 3,000 litre</b> <i>1510008600</i>	3.4 x 2.3 133.9 x 90.6	0.45 17.7	23 50.1	70 x 45 x 45 27.6 x 17.7 x 17.7
<b>GWT 5,000 litre</b> <i>1510008700</i>	3.5 x 3.1 137.8 x 122.1	0.6 23.6	30 66.1	115 x 64 x 33 45 x 25 x 13

\*Subject to change without notice | \*\*Connection: Storz C



### In operation ...

- › for storing and transporting liquids
- › for removing contaminated firefighting water



### Guaranteed quality:

- › made of strong, resistant PVC
- › anodised 2" aluminium flange
- › impact-resistant PVC ball valve



### Good reasons:

- › self-erecting without support frame
- › quickly ready for use
- › no accessories necessary
- › very stable and robust

# Accessories

## 1.5 bar (21.75 psi)

### Inflation hose, 1.5 bar (21.75 psi)

- > 10 m (32 ft.)
- > Blue



**0150000101**

### Inflation and safety hose, 1.5 bar (21.75 psi)

- > 10 m (32 ft.)
- > Blue



**0150002201**

### Fitting control

- > Control device, 1.5 bar (21.75 psi)



**Dual 0150001801**



**Single 0150002101**

### Foot pump, 1.5 bar (21.75 psi)

- > With safety valve



**0150002800**

## 12 bar (174 psi)

### Inflation hose, 12 bar (174 psi)

- > 10 m (32 ft.)
- > Green



**1500011302**

### Single control device, (174 psi)

- > Fitting control



**1200001900**

## Inflate with cylinder

### Compressed air cylinder

- > 1 l/200 bar (0.04 cu. ft./2,900 psi), steel, 5/8" IG, 200 l (7.1 cu. ft.)

**1600010100**

- > 6 l/300 bar (0.21 cu. ft./4,350 psi), steel, 5/8" IG, 1.800 l (63.5 cu.ft.)

**1600010800**



## Inflate with cylinder

### Dual connector

- › For simultaneous connection of 2 compressed air cylinders
- › 5/8" thread

▶ **200 bar (2,900 psi): 1600008400**



▶ **300 bar (4,350 psi): 1600009100**



### Regulator

- › 200/300 bar (2,900/4,350 psi)
- › With max. outlet pressure, 14 bar (203 psi)



▶ **1600031900 | 1600032000 (USA)**

## Inflate with alternative air source\*

### Air supply hose

- › 10 m (32 ft.)
- › With shut-off valve
- › Green



▶ **1600013601**

### Truck tyre inflation system adapter

▶ **1600007800**



### Truck tyre valve

▶ **1600008000**



### Truck tyre valve connector

▶ **1600012900**



## Truck brake line

### Truck compressed air connector

- › 2-circuit system

▶ **1600007500**



### Sealing-off cap

▶ **1600012600**



## Stationary compressed air system

### Adapter for stationary compressed air system

▶ **1600008200**



### Pre-pressure regulator

- › Max. inlet pressure, 16 bar\*\* (232 psi)

▶ **1600014500**



\*You require the green supply hose for all air sources except the compressed air cylinder.

\*\*Note: If the outlet pressure of the compressed air system exceeds the allowable inflation pressure of the controller, the adapter must be replaced with a pre-pressure regulator.

# Accessories

## Inflate using Vetter hand and foot pump

### Hand pump

- › 520 ccm/stroke

▶ 1600008700



### Foot pump

- › 420 ccm/stroke

▶ 1600009400



## Compressor

### Adaptor for construction site compressor

▶ 1600012000



### Adaptor for portable compressor

▶ 1600008200



## Adapter set

The complete set with all adapters and valves listed below is available under the following article number:

▶ 1600012501

### The set contains:

- › 2 x air supply hose, 10 m (32 ft.), green with shut-off valve
- › Truck tyre inflation system adapter
- › Truck tyre valve
- › Truck tyre valve connector
- › Truck compressed air connector
- › Sealing-off cap
- › Adaptor for construction site compressor
- › Adapter for stationary compressed air system
- › Bag 18 x 45 cm (7 x 17.7 inch)









# Oil and water aspirators

For suctioning and pumping out liquids.



## Mini-Permanent Aspirator MPA 2.0 Compact

Reliable and versatile – the compact companion

- › powerful suction and pumping function
- › ergonomic and easy to handle
- › for liquids and dry suction operation
- › chemical resistant and robust

When it comes to sucking up and pumping out liquids in the field, the MPS 2.0 Compact mini permanent vacuum aspirator is the perfect companion. Based on our many years of experience as a hazardous materials specialist, we have developed a powerful and reliable device that optimally meets the requirements of fire departments. Thanks to its compact design, you can quickly stow the vacuum in your vehicle, saving space. The connection for a fire hose enables efficient pumping of liquids up to 11 m. In addition, you can use the separately switchable pump with integrated automatic shut-off at maximum fill level if required. During use, you will benefit from the ergonomic handling, the sophisticated chassis and, thanks to the 6 m long suction hose, a particularly large working radius. The container of the vacuum aspirator is made of robust, glass fibre-reinforced plastic, which can also withstand chemicals without any problems. The MPS 2.0 MWF can also be used for dry suction operation.



### Compact

- › height adjustable handle
- › height reduction of more than 10 %\*

## Dust-proof and water-proof



IP 68 grounding-contact plug

## Perfectly protected



Integrated PRCD circuit breaker

## Fire-service compliant



Connection for fire-service hose

## Versatile



Sufficient chassis clearance



### In operation ...

- › after floods and storms
- › after pipe bursts and fires
- › for fire services, technical relief organisations, etc.



### Good reasons:

- › high chemical resistance of GRP compared to other container materials
- › ergonomic handling: height of push bar on chassis frame and the carrying handle on the engine head are coordinated.
- › compact and modern design
- › Easy transport thanks to handy chassis frame
- › space-saving stowage in the fire truck or emergency vehicle
- › integrated automatic switch-off
- › easily removable motor head facilitates filter replacement and tank cleaning



### Guaranteed quality:

- › verifiably tested (inspection seal)
- › fire rating I
- › protection class IPX4
- › compliant with the latest EU directives and standards
- › latest state of the art

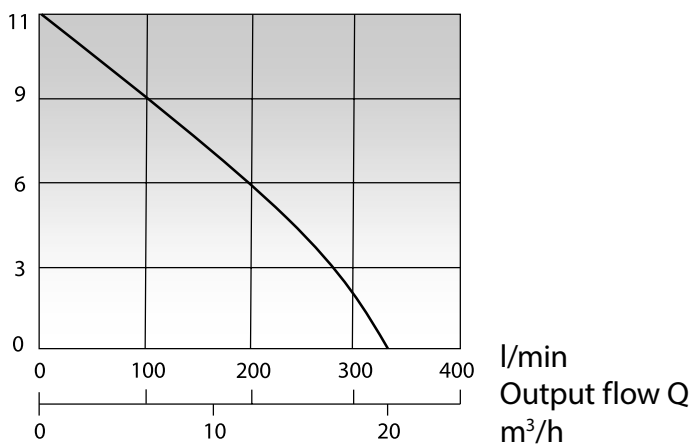
## Technical data\*

### MPA 2.0 Compact 2220003500

Mains voltage	230 V
Frequency	1~ 50 Hz
Max. performance	2,350 W
Power (tot.)	2,000 W
Rated power	1,200 W
Capacity of the disposal pump	800 W
Container capacity	60 l
Filling quantity (liquid)	47 l
Air volume (max.)	56 l/s
Output pump (max.)	330 l/min
Negative pressure (max.)	23,5 (235) kPa (mbar)
Type of protection	IPX4
Protective class	I
Suction hose connection (C-DN/C-ID)	40 mm
Connector fire hose	Storz C
Length x width x height	520 x 503 x 755–946 mm
Typical operating weight (without accessory)	32 kg
Max. ambient temperature	+ 40 °C

\*Technical changes reserved

Output height H m (WS)



## Permanent aspirator (PA)



**The specialist for vacuuming and pumping of liquids (up to 11 m):**

- › For vacuuming and pumping of liquids
- › Pump can be switched on separately, allows controlled pumping
- › Capacity of 100 l (3.5 cu. ft.)
- › Trolley for round containers

**2210001303**

## Oil water debris aspirator (OWDA)



**The specialist for debris and granulated material:**

- › For suctioning liquids, debris and granular solids
- › Capacity of 100 l (3.5 cu. ft.)
- › Lid also fits 200 l (7 cu. ft.) standard rolling hoop drums
- › Hazardous liquids can be suctioned directly into drums, securely sealed and transported

**2200000804**



Rapid response to flooding or burst pipes.

**Note:** Oil and water aspirators are not suitable for suctioning explosive and highly flammable liquids or dust and vapours posing a risk to health.



### In operation ...

- › floods and storms
- › accidents, pipe bursts and fires
- › to suction foaming liquids
- › to suction binding agents, e.g. after traffic accidents



### Good reasons:

- › compared to other types of plastic, GFRP has very good resistance to chemicals
- › sturdy design
- › transparent container (makes liquid level visible)
- › container can easily be replaced



### Guaranteed quality:

- › verifiably tested (inspection seal)
- › aspirator-protection class IP 44 (splash-proof)
- › tested according to VDE 0700-0701
- › grounding-contact plug 2-pin IP 68 (water pressure-tight)

## Technical data\*

	Oil water debris aspirator (OWDA) 2200000804	Permanent aspirator (PA) 2210001303
<b>Suction power air</b> litres/min. / cu. ft./min.	3,030 107	3,030 107
<b>Suction power water</b> litres/min. / cu. ft./min.	160 5.7	160 5.7
<b>Negative pressure</b> mm WC/psi	2,392 3.5	2,392 3.5
<b>Flow rate of pump</b> litres/min. / cu. ft./min.	--	260 9.2
<b>Pumping height</b> m/ft.	--	11 18
<b>Current consumption of motor head</b> amps	4.6	4.6
<b>Current consumption of pump</b> amps	--	3.4
<b>Power consumption of motor head</b> watt	1,000	1,000
<b>Power consumption of pump</b> watt	--	800
<b>Voltage of motor head</b> V/Hz	240 / 50 / 60	240/50/60
<b>Voltage of pump</b> V/Hz	--	240 / 50
<b>Capacity of container</b> litres/cu. ft.	100 3.53	100 3.53
<b>Dimensions of aspirator standard equipment (L x W x H)</b> cm/inch	86 x Ø 62 34 x Ø 25	86 x Ø 62 34 x Ø 25
<b>Weight (set standard equipment), approx.</b> kg/lbs	30 66	35 77
<b>Weight (set accessories), approx.</b> kg/lbs	6.3 13.9	5.7 12.6

\*Technical changes reserved

## Accessories – Oil and water aspirators

### Accessories Set MPA 2.0 Compact

- > **Suction hose**, 6 m, oil resistant, incl. curved connecting pipe
- > **Narrow space nozzle**
- > **Suction pipe**, stainless steel (2 parts)
- > **Ground nozzle**, 370 mm



▶ 2220003100

### Optional accessories MPA 2.0 Compact

#### Shut-off unit, Storz C

▶ 1700007900



#### Paper filter (5 pieces)

- > for fine dust

▶ 2230024400



#### Flat Fold Filter (Dust class M)

- > for dry suction mode

▶ 2230024200



#### Exhaust nozzle for Decon-tub

▶ 1700014701



#### Safety switch PRCD-S

▶ 2230025400



## Accessories – Oil and water aspirators

### Accessories Set PA and OWDA

- > **Suction hose**, 6 m, oil resistant, incl. curved connecting pipe
- > **Adaptor Suction hose Aspirators**, incl. Coupling Storz 38
- > **Narrow space nozzle**
- > **Suction pipe**, stainless steel (2 parts)
- > **Ground nozzle**, 370 mm



➤ 2230022900

### Optional accessories PA

#### Safety switch PRCD-S

➤ 2230025400



#### Shut-off unit, Storz C

➤ 1700007900



#### Exhaust nozzle for Decon-tub

➤ 1700014701



#### Connector to C 52 / 38 mm

➤ 2230014500



### Optional accessories OWDA

#### Safety switch PRCD-S

➤ 2230025400







# Vetter Resistance List

## Convince through transparency

Please note: The data given in our resistance list are based on laboratory tests and empirical values. Elongated material reacts more quickly to chemicals than when it is at rest. This means, the greater the elongation or strain, the lower the chemical resistance. In addition, the resistance also depends on the material thickness, which affects diffusion. Other variable factors, for example, temperature, intensity or exposure period also affect resistance.

The values given can therefore differ in a specific operational scenario and are only given here as indicative values. We will be pleased to provide material samples for you to determine the chemical resistance yourself.

### Key

+ resistant

o conditionally resistant

- not resistant

n.d. no data

## Temperature resistance

Products	cold-resistant	cold-flexible	heat-long-term	heat-short-term
C.Tec 12 Connectable Bags 12 bar				
S.Tec 12 Lifting Bags 12 bar	-40 °C	-20 °C	+90 °C	+115 °C
Ultra Flat Bags 8 bar				
Mini Lifting Bags 8 bar				
Wedge Lifting Bags and Lifting Bags 1 bar	-40 °C	-20 °C	+70 °C	+85 °C
Safety Cushions (support frame)				
Rescue path 0.5 bar	-30 °C	--	+70 °C	--
Rubber hoses	-40 °C	-30 °C	+90 °C	--
Storage bags and tarpaulin covers				
Controllers: Plastic, aluminium and fitting design	-20 °C	--	+55 °C	--

## Material list

Products	Material	Support material
Lifting Bags 1 bar		Aramid/ Polyester
Wedge Lifting Bags 1 bar (bottom and top)	CR	
C.Tec 12 Connectable Bags 12 bar		
S.Tec 12 Lifting Bags 12 bar		
Ultra Flat Bags 8 bar	CR	Aramid
Mini Lifting Bags 8 bar		
Safety Cushions (support frame)	CR	Polyester
Wedge lifting bag 1 bar (side walls)		
Rescue path 0.5 bar	PVC	Polyester
Inflation hoses and air supply hoses (outside)	EPDM	Polyester

**Resistance list\***

Material designation	CR	PVC	EPDM
Acetone	o	-	-
Acetylene	+	o	-
Alum, aqueous	+	+	-
Aluminium chloride	+	o	+
Aniline	-	-	n.d.
ASTM oil 1	o	n.d.	-
Petrol	o	-	n.d.
Benzene	-	-	-
Boracic acid	+	+	+
Bromine (moist)	-	-	-
Butyric acid	-	o	n.d.
Chlorine gas (moist)	-	-	n.d.
Chlorine, wet	o	n.d.	o
Diesel fuel	o	o	-
Iron chloride	+	+	+
Petroleum	o	o	-
Acetic acid	o	o	o
Fatty acids	+	n.d.	-
Formaldehyde	+	n.d.	+
Glucose	+	+	+
Heating oil	+	+	-
Potassium chloride	+	o	+
Calcium chloride	+	o	+
Calcium nitrate	+	n.d.	+
Carbon dioxide	+	+	+
Carbon monoxide	+	-	+
Copper sulphate	+	o	+
Glue	+	n.d.	+
Methyl chloride	-	o	o
Seawater	+	o	n.d.
Mineral oils	+	+	-
Sodium carbonate	+	-	-
Ozone	+	n.d.	+
Paraffin	+	n.d.	-
Perchloric acid	o	n.d.	+
Phenol (aqueous)	-	-	+
Phosphoric acid (concentrated)	-	+	-
Mercury	+	o	+
Nitric acid (fuming)	-	+	-
Sulphur dioxide (dry)	-	o	n.d.
Sulphuric acid (50%)	+	o	-
Nitrogen	+	n.d.	+
Carbon tetrachloride	-	o	-
Animal fats	+	n.d.	+
Toluene	-	-	-







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