

Rescue Products

Product catalogue

Place your trust in emergency pneumatics!

We are the company which helps you to find the right solution!

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Emergency Pneumatics.

Equipped for emergencies.

Vetter has been the leading supplier of emergency pneumatics for decades – and still is. We offer you a product range for demanding professionals, developed especially for rescue operations. As a result, Vetter products guarantee you maximum functionality, even in extreme conditions. Count on it!

Emergency Pneumatics.



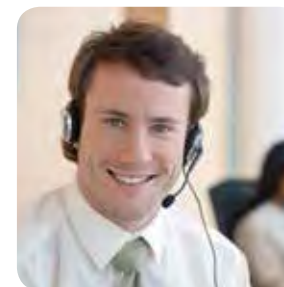
Experienced in rescue

About 50 years of international cooperation with fire brigades make Vetter a partner you can rely on. We apply our experience and expertise to the constant refinement of our products. Your benefit: Sophisticated emergency pneumatics help you to get everything under control. So, you can fully concentrate on your work.



Technology leader

Highly specialised pneumatics is our core business. Benefit from our complete range of emergency pneumatic products – developed by our engineers in Germany. At Vetter, we are committed to a wide variety of pressure levels, materials and designs, and we always set the bar somewhat higher: Our 12-bar lifting bags already represent the next generation in rescue technology.



Expert advice worldwide

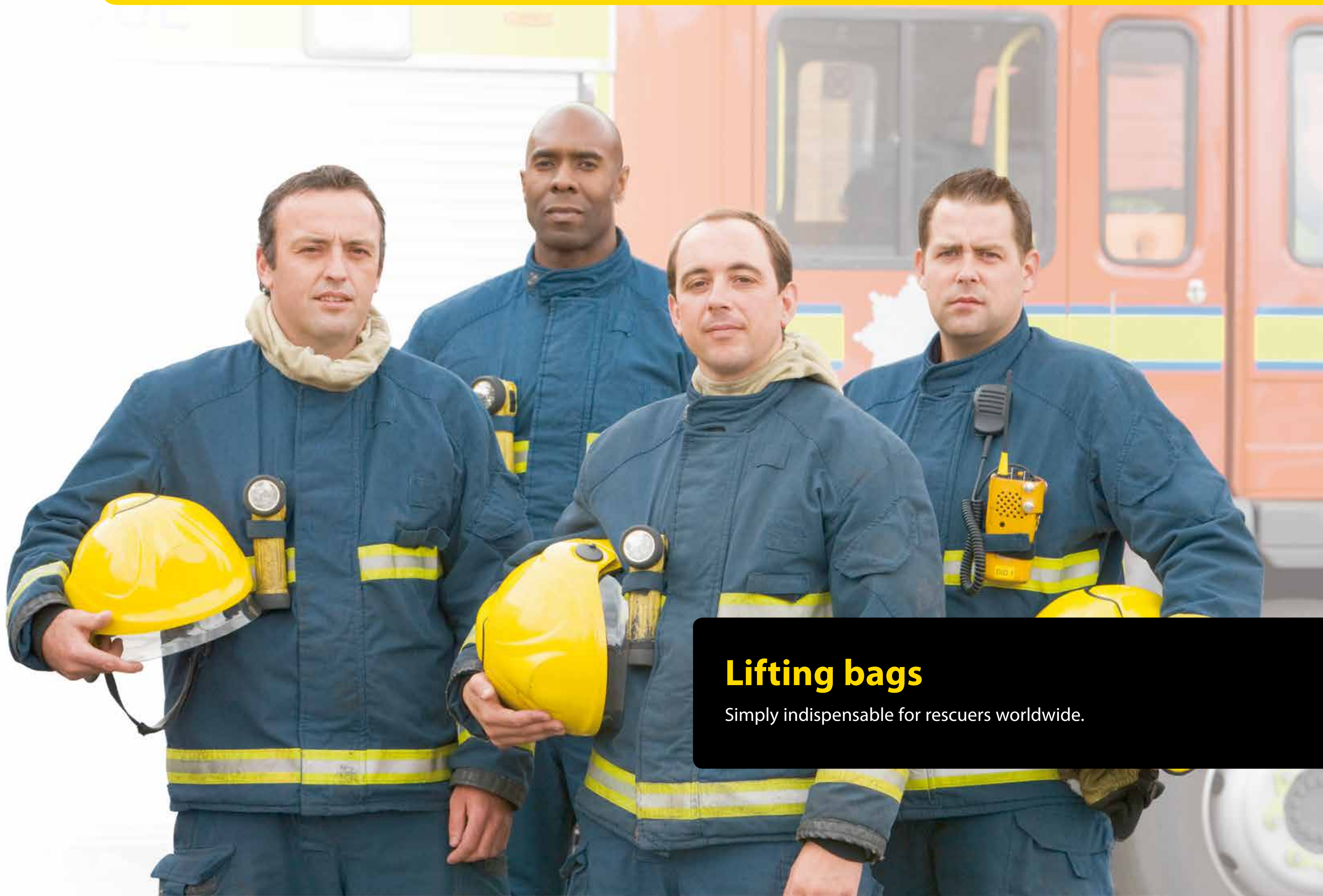
Vetter listens to you. Together with you, we will choose equipment exactly tailored to your rescue scenarios. Our worldwide dealer network is always at your service: before, during and after your purchase.



Highest quality – made in Germany

Put your trust in first-class rescue technology handmade by Vetter. Flawless materials and meticulous handwork are the foundation for the safest emergency pneumatics on the market. So nothing can go wrong when it really counts. Our product range is produced almost entirely in Germany and every product is individually checked before delivery, as you can confirm by checking our test seal.





Lifting bags

Simply indispensable for rescuers worldwide.

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

The next generation of high-pressure lifting bags.

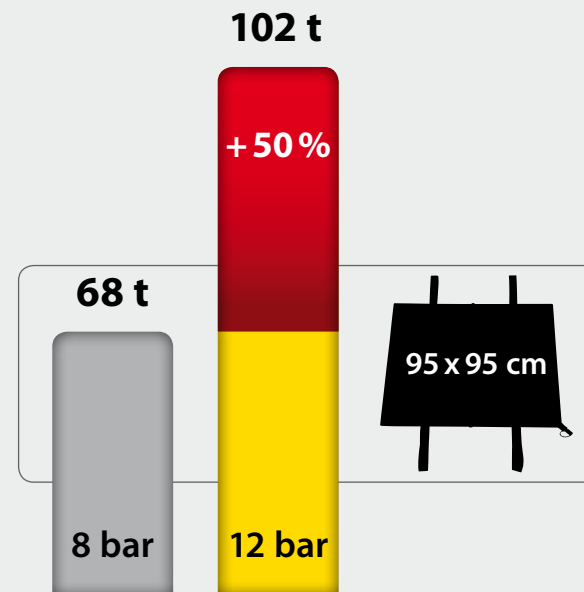
- › 50 % more performance*
- › up to 102 tons (112 US tons) lifting power
- › 2.5 cm (0.98 inch) insertion height
- › max. lifting power and height are readable at the side

Vetter has further optimised the popular mini lifting bags to create a new generation of lifting bags: Vetter S.Tec 12 Lifting Bags master every rescue operation with ease. Amazingly flat and uniquely powerful. Its dynamic 12-bar lifting power makes it the most impressive lifting bag on the market. With an insertion height of only 2.5 cm (0.98 inch), our S.Tec 12 Lifting Bag fits in even the narrowest gaps and openings. Thanks to its intelligent surface profile, you can safely stack two bags.



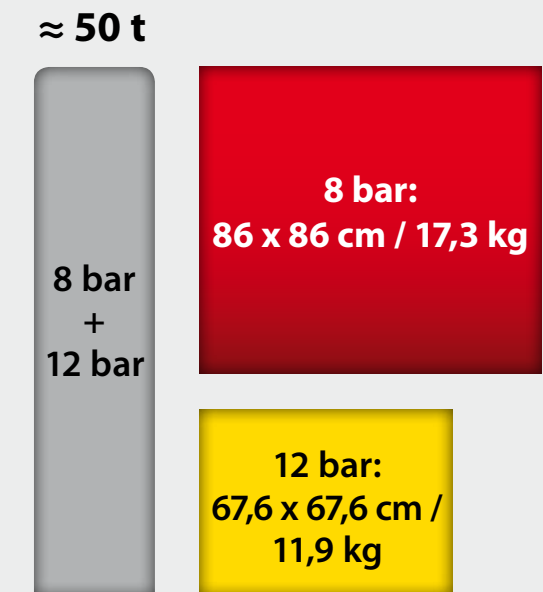
NEW

50 % performance increase with the same bag size.



Is valid for the following S.Tec 12 Lifting Bags
V 1, V 5, V 7, V 33L, V 35, V 59, V 83 and V 102

Same lifting power with smaller and lighter bags*



Is valid for the following S.Tec 12 Lifting Bags
V 10, V 12, V 20 and V 50



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



Lifting power up to 102 tons (112 US tons).



In operation ...

- › Freeing trapped persons
- › Traffic accidents
- › Rockfalls or landslides
- › Collapsed buildings



Good reasons:

- › 50 % performance increase*
- › Stackable due to non-slip surface profile
- › Safety coupling
- › Aramid-reinforced
- › compatible with 8 + 10 bar inflation accessories



Guaranteed quality:

- › Individually tested (with dated inspection seal)
- › Safety factor greater than 4:1
- › Complies with EN 13731 (independently tested)
- › 3-year guarantee




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

The world’s most popular sets for any application:

Rescue set (12 bar / 174 psi) – 426 kN

S.Tec 12 Lifting Bags up to 20 tons (22 US tons) 1316001500

This set is especially versatile and suitable for almost all road applications. Whether lifting vehicles when people are trapped underneath or freeing trapped limbs after traffic accidents, this set is a reliable helper.



The set includes:

- › Lifting bags V 10, V 12, V 20
- › 2 inflation hoses 12 bar, 5 m, yellow and red (174 psi, 16.4 ft.)
- › Air CU lighting, deadman controller
- › Pressure regulator 200 / 300 bar (2,900 / 4,350 psi)

Emergency Rescue set (12 bar / 174 psi) – 961 kN

S.Tec 12 Lifting Bags up to 33 tons (36 US tons) 1316001600

The emergency rescue set is ideal for the rapid rescue of trapped persons. The multitude of lifting bags lets you react to the lifting weight with great versatility. Use the emergency rescue set to create free space during traffic accidents and natural catastrophes.



The set includes:

- › Lifting bags V 10, V 12, 2 x V 20, V 33L
- › 2 inflation hoses 12 bar, 5 m, yellow and red (174 psi, 16.4 ft.)
- › Air CU lighting, deadman controller
- › Pressure regulator 200/300 bar (2,900 / 4,350 psi)

Heavy rescue set (12 bar / 174 psi) – 2,403 kN

S.Tec 12 Lifting Bags up to 59 tons (65 US tons) 1316001700

With the heavy rescue set, you have 9 bags in 7 different sizes at your disposal, from little helpers to the big bag with up to 59 tons (65 US tons) of lifting power. With this set, you are ready for everything: traffic accidents with heavy trucks, collapsed buildings and even natural disasters. The heavy rescue set should be available at every major rescue operation.



The set includes:

- › Lifting bags V 10, V 12, 2 x V 20, V 33L, V 35, 2 x V 50, V 59
- › 2 inflation hoses 12 bar, 5 m, yellow and red (174 psi, 16.4 ft.)
- › Air CU lighting, deadman controller
- › Pressure regulator 200 / 300 bar (2,900 / 4,350 psi)

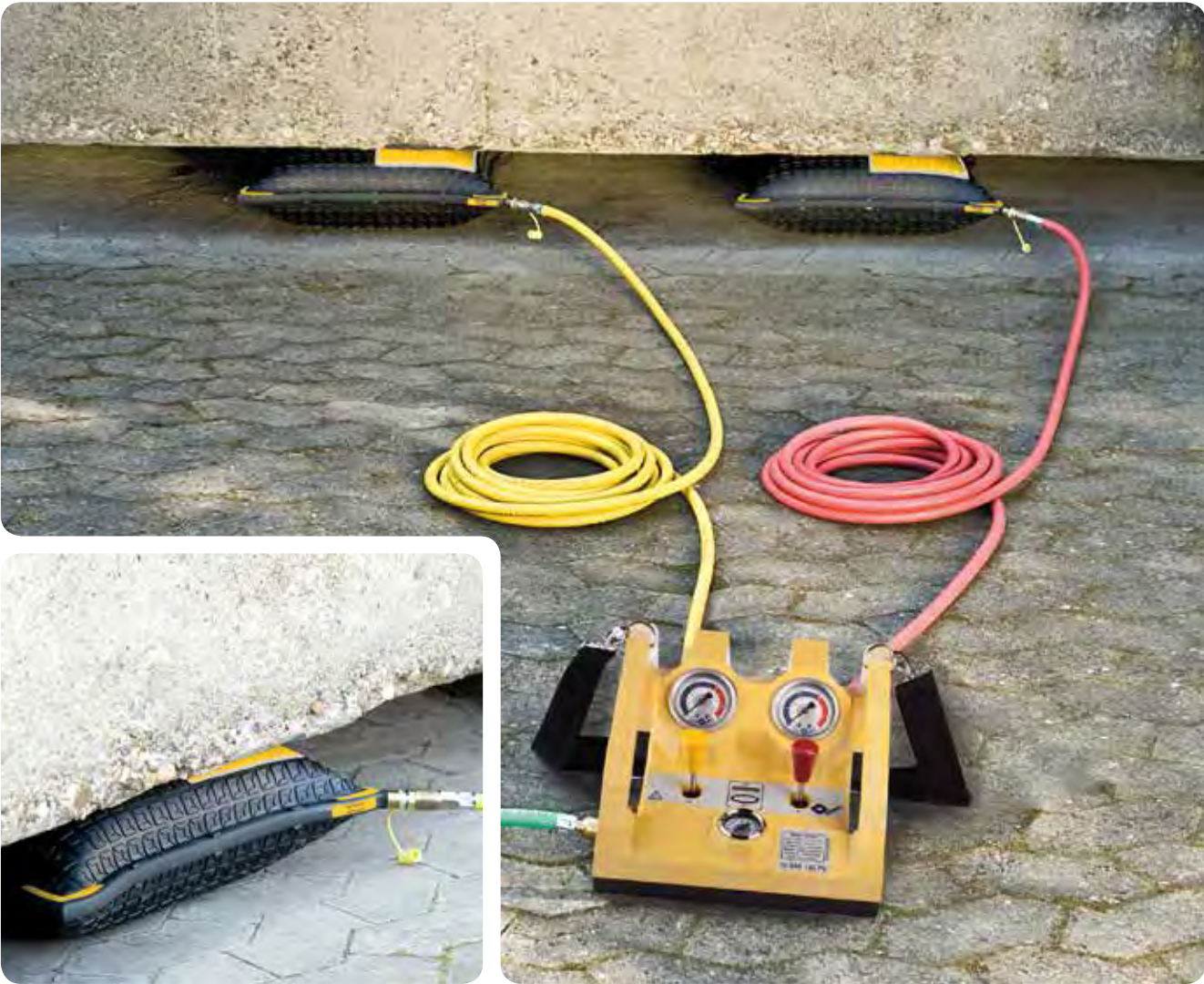
S.Tec Lifting Bags (12 bar / 174 psi)

You want a set of lifting bags perfectly tailored to your requirements? Just ask us. We'll be pleased to advise you.

Your choice:

- › 12 different lifting bag sizes (square or rectangular shaped) with lifting power up to 102 tons (112 US tons)
- › 4 controllers (3 deadman versions, 1 fitting)
- › many different compressed air sources including compressed air cylinder, compressor, compressed air connection on vehicles

For the right accessories to assemble custom sets, see page 30.



Technical data*

S.Tec 12 Lifting Bags (12 bar / 174 psi)	Lifting power, max. ** to / US tons	Lifting height, max. cm / inch	Size cm / inch	Air requirement, at 12 bar / 174 psi litres / cu. ft.	Weight, approx. kg / lbs
V 1 1316000200	1.3 1.5	7.4 2.9	14 x 13 5.5 x 5.1	4.0 0.2	0.5 1.1
V 5 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
V 7 1316000400	7.5 8.3	15.8 6.2	28 x 28 11 x 11	54.0 1.9	2.0 4.4
V 10 1316000500	10.1 11.1	17.8 7.0	32 x 32 12.6 x 12.6	120.3 4.3	2.6 5.8
V 12 1316000600	12.3 13.5	19.5 7.7	35 x 35 13.8 x 13.8	191.3 6.8	3.0 6.7
V 20 1316000700	20.2 22.2	24.5 9.6	44 x 44 17.3 x 17.3	296.3 10.5	4.8 10.6
V 33L 1316000800	33.3 36.7	19.3 7.6	31 x 102 12.2 x 40.2	321.7 11.4	8.0 17.6
V 35 1316000900	34.7 38.2	29.9 11.8	52 x 62 20.5 x 24.4	479.0 16.9	8.2 18.2
V 50 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
V 59 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
V 83 1316001200	82.7 91.1	46.6 18.3	86 x 86 33.9 x 33.9	1,646.0 58.1	19.1 42.1
V 102 1316001300	101.6 112.0	51.6 20.3	95 x 95 37.4 x 37.4	2,301.3 81.3	23.1 50.9

S.Tec 12 Lifting Bags (12 bar / 174 psi):
Working pressure: 12 bar (174 psi)
Test pressure: 18 bar (261 psi)
Burst pressure, at least: 48 bar (696 psi)

L = rectangular shaped lifting bag

Standard insertion height of only 2.5 cm (0.98 inch).

* Technical changes reserved.
** Actual lifting power after subtraction of the edge area.

Your choice of S.Tec 12 Lifting Bags depends on the weight to be lifted as well as the necessary lifting height. We'll be pleased to advise you.

Connectable Bags C.Tec (10 bar)

Singly or combined - always a powerful team

- › High level of stability with lift heights up to 2.1 m (82 inches)
- › Up to three bags can be used on top of each other
- › Tool-free connection technology
- › Constant final lifting power

Vetter Connectable Bags C.Tec are the perfect solution for enabling critical situations to be dealt with rapidly. They combine the lifting power of the Mini lifting bag and the height of lift of the known Vetter 1 bar lifting bag. As a result, the possibility exists to be able to react at all times to variable heights up to 2.10 meters. Thanks to the tool-free connection technology, the bags are ready for action in a few seconds. The load plate integrated into the bag guarantees a high level of stability and load-bearing capacity during the lifting procedure. The lifting of point loads and objects with sharp or pointed surfaces is possible without additional adapters.



NEW

Technical data*

Connectable Bags VCB C. Tec (10 bar)	Lifting power max. to / US to	End lifting capacity to / US to	Lifting height max. cm / inch	air requirement at 10 bar / 145 psi. litres / cu. ft.	Diameter cm / inch	Weight approx kg / lbs	Insertion height cm / inch
VCB 25 C.Tec 1315007500	25.1 / 27.6	5.9 / 6.5	30.2 / 11.2	301 / 11	56.5 / 22.2	15.6 / 34.4	8 / 3.2
VCB 62 C.Tec 1315007600	62.2 / 68.6	10.8 / 11.8	45.5 / 17.9	1,099 / 39	89 / 35	34.8 / 76.7	8.3 / 3.3
VCB 143 C.Tec 1315007700	143.1 / 157.8	12.6 / 13.8	68.9 / 27.1	3,681 / 130	135 / 53.2	55.7 / 122.8	8.6 / 3.4

Connectable Bags C.Tec (10 bar / 145psi):
Working pressure: 10 bar (145 psi)
Test pressure: 16 bar (232 psi)
Burst pressure, at least : 40 bar (580 psi)

Unrivalled lifting high up to 2,10 m (82 inches). *

*Technical changes reserved.



Integrated load plate



Connection plate

In operations by ...

- › Rescuing trapped persons
- › Creating accesses
- › Natural catastrophes, building collapses and accidents

Good reasons:

- › Highest lifting height and lifting capacity in the connectable bag segment in the market
- › Simple handling
- › Tool-free bag connection
- › Bags can be used individually or combined
- › No emptying necessary to dismantle

Guaranteed quality:

- › Individually tested (with dated inspection seal)
- › Safety factor more than 4:1
- › EN Complies with EN 13731 (independently tested)
- › 2-year guarantee



Connectable Bags C.Tec (10 bar)

Are you looking for a lifting-bag set which is perfectly coordinated to your requirements? Contact us. We will be glad to advise you!

You have the following selection:

- › 3 different lifting-bag sizes with up to 143 tons lifting power
- › 4 control devices (3 deadman versions, 1 fitting)
- › Many different compressed air sources, e.g. compressed air bottle, compressor, compressed air connection to the vehicle

You can find the right accessories for combining the individual sets from page 30.



Combinations

Up to 16 different combinations possible

	max. lifting height in cm	max. lifting height in inch	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
VCB 25	30.2	11.89	1	2	3							1	1			1	1	1
VCB 62	45.5	17.91				1	2	3				1	2	1	1			1
VCB 143	68.9	27.13							1	2	3			1	2	1	2	1
Connection Plate	1.5	0.59		1	2		1	2		1	2	1	2	1	2	1	2	2
Total height in cm			30.2	61.9	93.6	45.5	92.5	139.5	68.9	139.3	209.7	77.2	124.2	115.9	186.3	100.6	171.0	147.6
Total height in inch			11.9	24.4	36.9	17.9	36.4	54.9	27.1	54.8	82.6	30.4	48.9	45.6	73.3	39.6	67.3	58.1



Trolley for accessories



Valise

Ultra flat bags S.Tec (10 bar / 145 psi)

The unbeatably flat first-aider of the S.Tec series.

- › 25 % more performance*
- › Ready to use in seconds
- › Insertion height only 1.6 cm (0.6 inch)
- › reflective markings

The perfect complement to your C.Tec lifting bags. With their super-flat insertion height of only 1.6 cm (0.6 inch), Vetter ultra flat bags are the ideal first-aider at the rescue site, fitting into the smallest of gaps. They exert their strength in the most confined spaces and make room for other rescue tools. Thanks to their low air requirement and extreme ease of use, Vetter ultra flat bags are ready to use in seconds. In short: an indispensable tool in a wide range of situations.



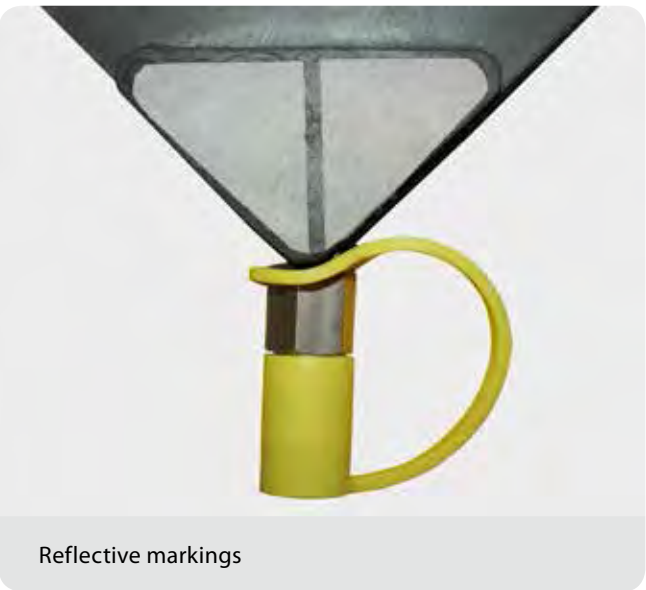
Technical data*

Ultra flat bags S.Tec (10 bar / 145 psi)	Lifting power max. to / US tons	Lifting height max. cm / inch	Size cm / inch	Air requirement, at 10 bar / 145 psi litres / cu. ft.	Weight approx kg / lbs	Insertion height cm / inch
UF 1 S.Tec 1315006000	1.1 1.3	7.5 3.0	14 x 13 5.5 x 5.1	3.85 0.14	0.4 0.9	1.6 0.6
UF 4 S.Tec 1315006100	3.8 4.2	12.0 4.7	25.5 x 20 10 x 7.9	24.75 0.88	1.0 2.2	1.6 0.6
UF 7 S.Tec 1315006200	7 7.7	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
UF 12 S.Tec 1315005900	11.6 12.8	20.3 8.0	37 x 37 14.6 x 14.6	92.95 3.29	2.4 5.3	1.6 0.6

Ultra flat bags S.Tec (10 bar):
Working pressure: 10 bar (145 psi)
Test pressure: 16 bar (232 psi)
Burst pressure, at least: 40 bar (580 psi)

Unrivalled low insertion height of only 1.6 cm* (0.6 inch).

* Technical changes reserved.



Reflective markings

These flexible first-aiders are the perfect complement to your C.Tec lifting bags.



In operation...

- › Freeing trapped persons
- › Preliminary measures
- › Freeing trapped limbs
- › Enlarging smallest openings
- › At accidents



Good reasons:

- › Super-flat insertion height of only 1.6 cm (0.6 inch)*
- › Flexible and easy to use
- › Aramid-reinforced



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Safety factor greater than 4:1
- › Complies with EN 13731
- › 3-year guarantee (independently tested)



Super-flat insertion height of only 1.6 cm (0.6 inch).

Mini lifting bags (8 bar / 116 psi)

The proven standard worldwide.

- › Versatile applicable
- › Safety coupling
- › Insertion heights as low as 2.5 cm (0.98 inch)
- › Quality – made in Germany

Thanks to their low insertion height, our mini lifting bags enable you to free injured persons quickly and smoothly. Lift even heaviest loads in a single smooth movement! Vetter's mini lifting bags demonstrate their versatility on the job: use them to lift, push, press, prise or split as the situation demands – safely and reliably even on difficult inclines. The optimised surface profile on Vetter's mini lifting bags masters even slippery surfaces such as sand or grass without any problems. The special safety coupling prevents unwanted disengagement of the hose from the lifting bag.



Stackable up to 2 bags.



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



Sturdy, non-slip surface.

Especially strong: Several layers of aramid make our mini lifting bags very sturdy and long-lasting.



In operation ...

- › Freeing trapped persons
- › Traffic accidents
- › Rockfalls or landslides
- › Collapsed buildings



Good reasons:

- › Insertion height from 2.5 cm (0.98 inch)
- › Non-slip surface
- › Aramid-reinforced
- › Safety coupling



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Safety factor greater than 4:1
- › Complies with EN 13731 (independently tested)
- › 3-year guarantee (independently tested)



Technical data*

Mini lifting bags (8 bar / 116 psi)	Lifting power, max. ** to / US tons	Lifting height, max. cm / inch	Size cm / inch	Air requirement, at 8 bar / 116 psi litres / cu. ft.	Weight, approx. kg / lbs
V 1 1314009300	1.0 1.1	7.5 3.0	14 x 13 5.5 x 5.1	2.7 0.1	0.5 1.1
V 3 1314009500	3.3 3.6	12.0 4.7	25.5 x 20 10 x 7.9	15.8 0.6	1.0 2.2
V 5 1314018200	5.7 6.3	14.5 5.7	28 x 28 11 x 11	28.4 1.0	1.4 3.1
V 6 1314009600	6.4 7.0	16.5 6.5	29.5 x 29.5 11.6 x 11.6	39.6 1.4	1.9 4.2
V 10 1314002200	9.6 10.6	20.3 8.0	37 x 37 15 x 15	82.8 2.9	3.3 7.3
V 12 1314002400	12.0 13.2	20.0 7.9	32 x 52 13 x 20	96.3 3.4	3.9 8.6
V 18 1314002500	17.7 19.5	27.0 10.6	47 x 52 19 x 20	195.3 6.9	5.7 12.6
V 20 1314011800	19.4 21.4	28.0 11.0	48 x 58 19 x 23	224.1 7.9	6.2 13.7
V 24 1314002600	24.0 26.5	30.6 12.0	52 x 62 20 x 24	296.1 10.4	7.2 15.9
V 24 L 1314002700	24.0 26.5	20.1 7.9	31 x 102 12 x 40	211.5 7.5	6.8 15.0
V 31 1314002800	31.4 34.6	37.0 14.6	65 x 69 26 x 27	517.5 18.0	10.1 22.3
V 35 L 1314018300	35.8 39.5	31.0 12.2	43 x 115 17 x 45	349.4 12.3	10.0 22.1
V 40 1314002900	39.6 43.7	40.2 15.8	78 x 69 31 x 27	675.0 23.6	12.2 26.9
V 54 1314003000	54.4 60.0	47.8 18.8	86 x 86 34 x 34	1,117.8 39.5	17.3 38.1
V 68 1314003100	67.7 74.6	52.0 20.5	95 x 95 37 x 37	1,457.1 51.4	20.7 45.6

Mini lifting bags (8 bar/116 psi):
Working pressure: 8 bar (116 psi)
Test pressure: 14 bar (203 psi)
Burst pressure, at least: 32 bar (464 psi)

L = rectangular shaped lifting bag

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

* Technical changes reserved.
** Actual lifting power after subtraction of the edge area.



Vetter emergency pneumatic in action

Wedge lifting bags (1 bar / 14.5 psi)

Smooth and precise at bus accidents.

- › Uniform pressure distribution
- › Safe operation
- › For thin-walled coachwork
- › Wedge-shaped for optimum lift angle

At bus accidents, your emergency personnel must cope with many injured persons at once, and seconds make the difference between life and death. The special shape of Vetter's wedge lifting bags provides an optimum lift angle. Free trapped passengers quickly from overturned busses. Thanks to the wedge-shaped bags, the load is distributed uniformly over the entire lifting distance. With their ideal pressure distribution, the bags are perfectly suited to lift thin-walled coachwork such as the side walls of buses. In doing so, they maintain continuous and secure contact with both the coachwork and the underlying surface.



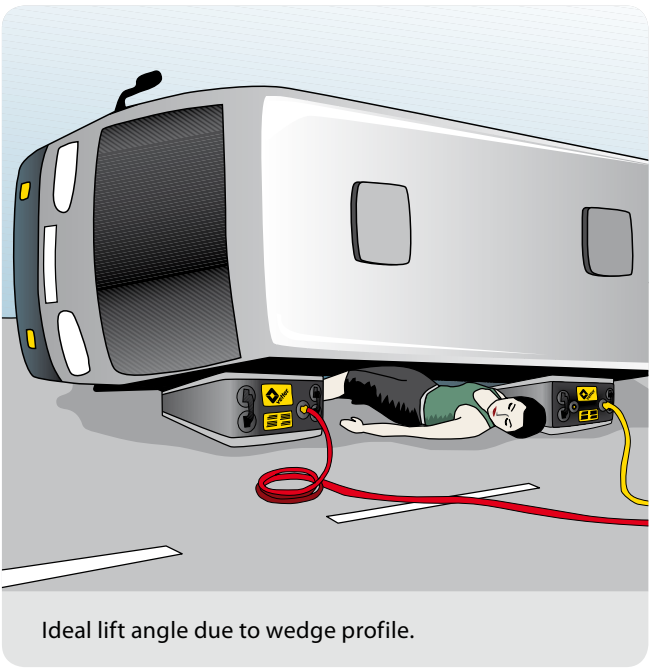
Wedge lifting bag set up to 12 tons (13.2 US tons)	3110012400	3110012500 (USA)
2 wedge lifting bags 1 bar (14.5 psi), 6 t (6.6 US tons)	2 filling hoses 1 bar, 10 m, yellow and red (14.5 psi, 16.4 ft.)	
Air CU lighting 1 bar (14,5 psi), deadman controller	Pressure regulator 200/300 bar (2,900/4,350 psi)	
Packing bag 110 x 72 x 30 cm (43 x 28 x 12 inch)	Repair material	

Technical data*

Wedge lifting bags (1 bar / 14.5 psi)	Lifting power to / US tons	Lifting height, max. cm / inch	Size cm / inch	Air requirement litres / cu. ft.	Weight, approx. kg / lbs
3110007702	6.0 6.6	60 23.4	80x80 31.2x31.2	506 17.9	10.4 22.9

Wedge lifting bags (1 bar / 14.5 psi):
Working pressure: 1 bar (14.5 psi)
Test pressure: 1.5 bar (21.8 psi)

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



Accessories for lifting bags (1 bar / 14.5 psi) can also be used with wedge lifting bags, so you can avoid costly multiple purchases.

- **In operation ...**
- › Rescuing trapped persons
- › For thin-walled coachwork such as vans
- › Lifting overturned buses
- › Preparation for uprighting with lifting bags (1 bar / 14.5 psi)

- **Good reasons:**
- › Ideal lifting height for quick passenger rescue
- › First-class pressure distribution
- › Positioning aids for precise placement
- › Added safety due to wedge profile

- **Guaranteed quality:**
- › Individually tested (with inspection seal)
- › Complies with EN 13731 (independently tested)
- › Safety factor 3:1
- › 2-year guarantee



*Technical changes reserved.

Lifting bags (1 bar / 14.5 psi)

Versatile classic with great lifting height.

- › High stability
- › Minimal pressure point loading
- › Lifting height up to 1.10 m (43 inch)
- › Insertion height only 3 cm (1.2 inch)

Our classic lifting bag has proven itself in 40 years of service. Trust in handwork made in Germany and rely on the pneumatics professionals. Internal stabilising straps keep the lifting bag from bulging and provide a flat contact area over the entire lifting height. Vetter lifting bags are distinguished by an ideal pressure distribution. In effect, they can also lift thin-walled coachwork such as lorries, vans or small airplanes without damaging them. On soft or slippery surfaces, the clever anti-slip dimples on the extremely tough top and bottom sides provide a firm hold.



Efficient lifting of overturned vehicles.



Stabilising straps for a flat contact area.



Gentle lifting of sensitive structures.

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



In operation ...

- › Freeing trapped persons
- › Traffic accidents
- › Uprighting vehicles with thin-walled coachwork



Good reasons:

- › Low pressure point loading
- › Constant lifting power over the entire lifting height
- › Working pressure adjustable from 0.1 to 1 bar (1.45 to 14.5 psi)
- › Side walls of high-quality aramid



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Safety factor at least 3:1
- › Complies with EN 13731 (independently tested)
- › 2-year guarantee



Lifting bag sets (1 bar / 14.5 psi)

Vetter lifting bags are available with deadman or fitting control.

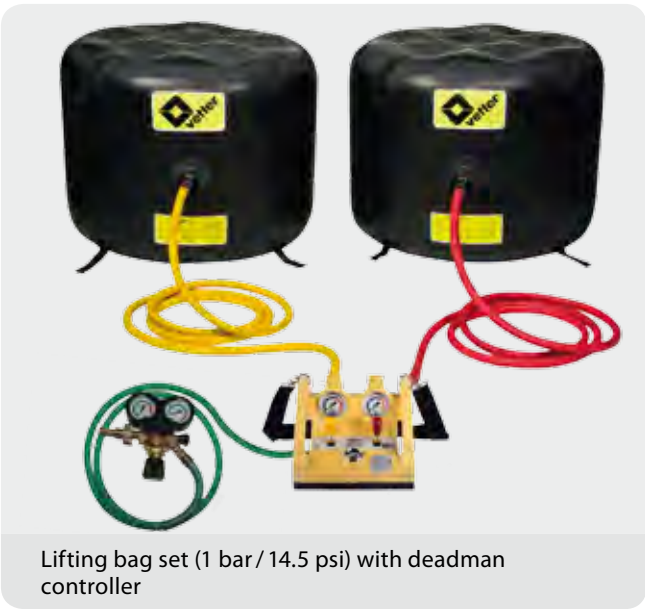
The deadman control returns to the zero position automatically, preventing uncontrolled inflation of the lifting bag.
The fitting control is operated with a ball valve. Careful: The air supply does not stop automatically.

All of the sets described here include the following standard components:

- 2 inflation hoses 1 bar, 5 m,
yellow and red (14.5 psi, 16.4 ft.)
- Air CU lighting, deadman controller
- Packing bag
- Pressure regulator 200/300 bar
(2,900/4,350 psi)
- Repair material

Set with deadman controller	
Set up to 6 tons (6.6 US tons)	3110011500 3110011900 (USA)
2 lifting bags, type 1 / 6, 1 bar (14.5 psi)*	
Set up to 9 tons (9.9 US tons)	3110011400 3110011800 (USA)
2 lifting bags, type 1 / 9, 1 bar (14.5 psi)*	
Set up to 13 tons (14.3 US tons)	3110011300 3110011700 (USA)
2 lifting bags, type 1 / 13, 1 bar (14.5 psi)*	
Set up to 23 tons (24.9 US tons)	3110011200 3110011600 (USA)
2 lifting bags, type 1 / 23, 1 bar (14.5 psi)*	

Set with fitting control**	
Set up to 6 tons (6.6 US tons)	3110002201 3110008101 (USA)
2 lifting bags, type 1 / 6, 1 bar (14.5 psi)*	
Set up to 9 tons (9.9 US tons)	3110001901 3110008001 (USA)
2 lifting bags, type 1 / 9, 1 bar (14.5 psi)*	
Set up to 13 tons (14.3 US tons)	3110001501 3110007901 (USA)
2 lifting bags, type 1 / 13, 1 bar (14.5 psi)*	
Set up to 23 tons (24.9 US tons)	3110000801 3110007801 (USA)
2 lifting bags, type 1 / 23, 1 bar (14.5 psi)*	



Lifting bag set (1 bar / 14.5 psi) with deadman controller



Lifting bag set (1 bar / 14.5 psi) with fitting control

Technical data***

Set with deadman control

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

Set with fitting control**

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

Single bags

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



















Lifting bags (1 bar / 14.5 psi):
Working pressure: 1 bar (14.5 psi)
Test pressure: 1.5 bar (21.75 psi)













Standard insertion height
of only 3 cm (1.2 inch).

** In accordance with EN 13731, these items are not approved for fire brigade use in the EU.
*** Technical changes reserved.









* 1 bag lifts 50% of the specified total tonnage.

Accessories – Lifting Bags

12 bar (174 psi)			
Inflation hose 12 bar (174 psi), S.Tec 12 Lifting Bags*		5 m (16.4 ft.)	10 m (32 ft.)
		1200002000	1200002500
		1200002100	1200002600
		1200002200	1200002700
		1200002300	1200002800
		1200002400	1200002900
Shut-off unit 12 bar (174 psi), S.Tec 12 Lifting Bags*		5 m (16.4 ft.)	10 m (32 ft.)
		1200003000	1200003500
		1200003100	1200003600
		1200003200	1200003700
		1200003300	1200003800
		1200003400	1200003900
Controller 12 bar (174 psi)		Dual	Single
Air CU lighting, Deadman controller, plastic housing			
	without lighting	1200001600	--
	lighting	1200001700	
Fitting controller*			
		1200001800	1200001900
Shut-off unit 12 bar (174 psi), S.Tec 12, 0.3 m (1 ft.)*			
		1200004000	
		1200004100	
Shut-off unit 12 bar (174 psi)*			
		1200004200	










10 bar (145 psi)			
Inflation hose 10 bar (145 psi), C.Tec / UF S.Tec		5 m (16.4 ft.)	10 m (32 ft.)
		1000001801	1000002301
		1000001901	1000002401
		1000002001	1000002501
		1000002101	1000002601
		1000002201	1000002701
Shut-off unit 10 bar (145 psi), C.Tec / UF S.Tec*		5 m (16.4 ft.)	10 m (32 ft.)
		1000003100	1000003600
		1000003400	1000003900
		1000003500	1000004000
		1000003200	1000003700
		1000003300	1000003800











Controller 10 bar (145 psi)		Dual	Single
Air CU lighting, Deadman controller, plastic housing			
	without lighting 1000008600 lighting 1000009100	--	
Deadman controller, aluminium			
	1000004700	1000004600	
Fitting controller*			
	1000004401	1000004301	
Cennexion technology			
Connection plate			
	1000012100		
Transportation			
Valise 25 C.Tec			
	1000012500		
Valise 62 C.Tec			
	1000012600		
Valise 143 C.Tec			
	1000012700		
Trolley for accessories (without accessories)			
	1000013200		







Shut-off unit 10 bar (145 psi), C.Tec / UF S.Tec, 0.3 m (1 ft.) [*]		
		1000002900
		1000003000
Shut-off unit 10 bar (145 psi) [*]		
		1000002800
Set of accesories		
Trolley for accessories (including accessories)		
		1000013300
Protection cap		
Protection cap VCB 25		
		1000012800
Protection cap VCB 62		
		1000012900
Protection cap VCB 143		
		1000013000

^{*} In accordance with EN 13731, these items are not approved for fire brigade use in the EU.

Accessories – Lifting bags

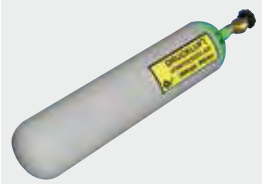



8 bar (116 psi)			
Inflation hose 8 bar (116 psi)		5 m (16.4 ft.)	10 m (32 ft.)
		0800000901	0800007401
		0800000601	0800007801
		0800000801	0800007501
		0800001301	0800007601
		0800000701	0800007901
Controller 8 bar (116 psi)		Dual	Single
Air CU Deadman controller, plastic housing			
	without lighting		--
	0800019000		
		lighting	
		0800019900	
Deadman controller, aluminium			
		0800000201	0800000401
Fitting controller*			
		0800002401	0800002001

Shut-off unit 8 bar (116 psi)*			
		0800008201	0800008301
		0800008801	0800008901
		0800009001	0800009101
		0800008401	0800008501
		0800008601	0800008701
Shut-off unit 8 bar (116 psi), 0.3 m (1 ft.)*			
		0800007201	
		0800007301	
Shut-off unit 8 bar (116 psi)*			
	0800005800		




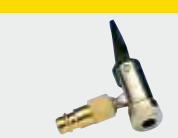
1 bar (14.5 psi)			
Inflation hose 1 bar (14.5 psi)		5 m (16.4 ft.)	10 m (32 ft.)
		0100004100	0350007401
		0100004000	0350033500
Shut-off unit 1 bar (14.5 psi)*			
		0100000301	
Controller 1 bar (14.5 psi)		Dual	Single
Air CU Deadman controller, plastic housing			
	without lighting		--
	0100004400		
		lighting	
		0100005000	
Fitting controller*			
		0100001803	0100001503




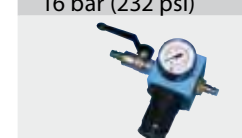
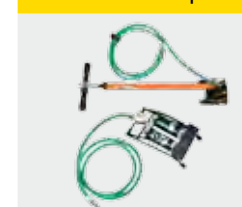



Inflation – Lifting bags

Inflation with cylinder

Compressed air cylinder		Dual connector, for simultaneous attachment of 2 compressed air cylinders, thread 5/8"	
	1 l / 200 bar, (0.04 cu. ft. / 2,900 psi) steel, 5/8" IT, 200 l (7.1 cu. ft.)	200 bar (2,900 psi)	
	1600010100		1600008400
	6 l / 300 bar, (0.21 cu. ft. / 4,350 psi) steel, 5/8" IT, 1,800 l (63.5 cu. ft.)	300 bar (4,350 psi)	
	1600010800		1600009100
	9 l / 300 bar, (0.32 cu. ft. / 4,350 psi) composite, 5/8" IT, 2,700 l (95.3 cu. ft.)		
	1600019900		
Pressure regulator 200 / 300 bar (2,900 / 4,350 psi), with maximum outlet pressure 12 bar (174 psi)			
	1600026100 1600026200 (USA)		

Inflation with alternative air source*

Air-supply hose, green		Commercially available hand and foot pump	
	10 m (32 ft.)	Truck tyre valve	
	1600013401		1600008000
	10 m (32 ft.), with shut-off valve		
	1600013601		
Adapter for truck tyre inflation system		Truck tyre valve connector	
	1600007800		1600012900

Truck brake line		Stationary compressed air network	
Truck compressed air connector, 2 way		Adapter for stationary compressed air network	
	1600007500		1600008200
Sealing-off cap		Pre-pressure regulator, maximum inlet pressure 16 bar (232 psi)**	
	1600012600		1600014500
Compressor		Inflation with Vetter hand and foot pump, no further adapters or hoses needed.	
Adapter for construction-site compressor			Hand pump, 520 cc / stroke
	1600012000		1600008700
Adapter for portable compressor			Foot pump, 420 cc / stroke
	1600008200		1600009400
Adapter set for all compressed air sources		1600012501	
	Air-supply hose, 10 m (32 ft.), green	1600013401	
	Air-supply hose, 10 m (32 ft.), green with shut-off valve	1600013601	
	Adapter for truck tyre inflation system	1600007800	
	Truck tyre valve	1600008000	
	Truck tyre valve connector	1600012900	
	Truck compressed air connector	1600007500	
	Sealing-off cap	1600012600	
	Adapter for construction-site compressor	1600012000	
	Adapter for stationary compressed air network	1600008200	
	Bag 18 x 45 cm (7 x 17.7 inch)	1520002500	

* For every air source other than the compressed air cylinder, you need one of the two green air-supply hoses.

** Note: If the outlet pressure of the compressed air network exceeds the allowed inflation pressure of the controller, then the adapter must be replaced with the pre-pressure regulator.



Safety cushions

The last resort in great challenges.

Safety cushions SP 16 / SP 25

Fast rescue from heights up to 25 metres (80 ft.).

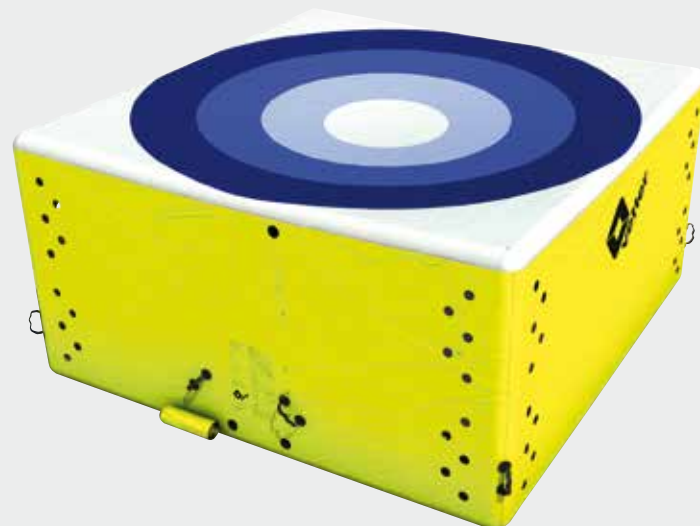
- › Rescue from up to 8 floors
- › Easy to carry, even when set up
- › Fast setup
- › Psychologically optimised

Vetter safety cushions* provide fast help when space is restricted at the rescue site or when facades are inaccessible to aerial ladder trucks. That way, you are ideally equipped even for difficult operational situations. Quickly set up and easily transported, the Vetter SP 16 and SP 25 safety cushions make it easier to gain access to the rear sides or courtyards of buildings. Our safety cushions also offer a safe solution for the rescue of trapped rescue personnel. Since 2014 the SP 16 is the only standardized safety cushion in Germany. So protect yourselves and all affected people in case of rescue from extremely heights and trust our jump cushions.

Neon-yellow side walls improve the visibility of our safety cushions at night or in bad weather. The landing areas are psychologically optimised: the blue circle – developed with experienced psychologist Prof. Horst Schuh – has been shown to reduce the crippling fear experienced by the jumper.

Our safety cushions have been tested by an independent institution in accordance with or based on the DIN 14151 T 1 and T 3. This standard requires elaborate testing including many drop tests with different falling weights and drop positions. To measure impact deceleration, a kind of crash test with dummies is especially important. After all, it is most essential to prevent jumping persons from hitting too hard, breaking through to the ground, or even bouncing back from out of the cushion.

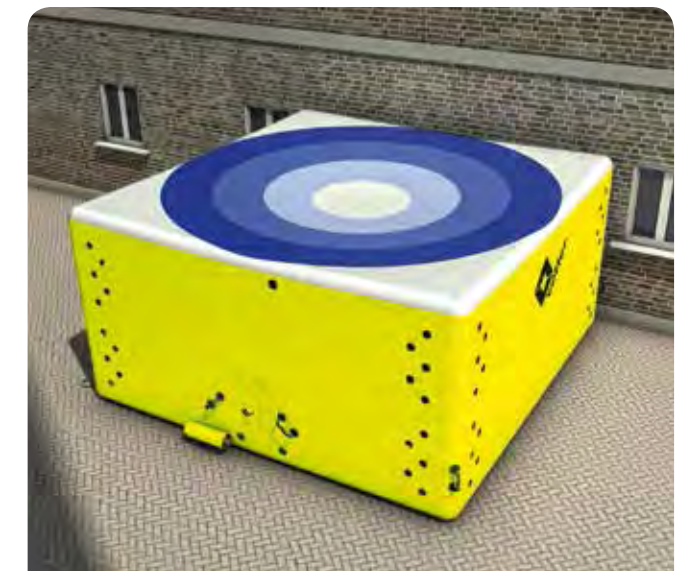
In short: Only with a certified safety cushion, you protect a jumping person and your rescue team optimally from avoidable injuries.



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



Easily positioned by 2 persons.



Psychologically optimised surface reduces fear.



The SP 16 can be set up in 30 seconds.

We will be happy to provide you with the test certificates according to DIN 14151 T3: +49 (0)2252 / 3008-0 or vetter.info@idexcorp.com.



In operation ...

- › Fires in buildings with up to 8 floors / 25 m (80 ft.) (SP 25)
- › Safeguarding for high-angle rescue
- › Areas inaccessible to aerial ladder trucks



Good reasons:

- › Only 2 or 4 persons needed for setup
- › Outer cover of flame-resistant, tear-proof material
- › SP 16 approved according to DIN 14151 T1 and T3
- › SP 25 tested based on DIN 14151 T1 and T3



Guaranteed quality:

- › Individually tested with falling weights
- › Dated inspection seal
- › Integrated safety valve
- › 2-year guarantee independently tested



Safety cushion sets SP 16 / 25

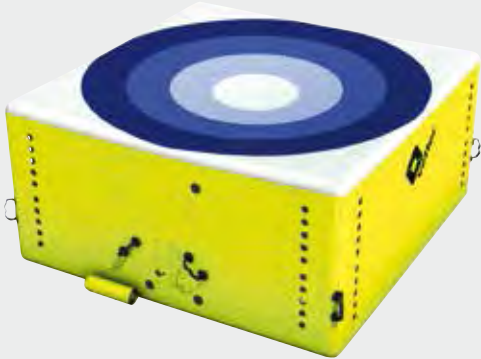
Blue circle

Safety cushion set SP 16 (rescue high up to 16 metres / 51.2 ft.)

1530018100

Safety cushion set SP 25 (rescue high up to 25 metres / 80 ft.)

1530018600



The psychologically optimised landing area with the blue circle design was developed in cooperation with experienced psychologists. The neon-yellow side walls enhance the visibility of the safety cushion at night and in bad weather.


Black cross

Safety cushion set SP 16 (rescue high up to 16 metres / 51.2 ft.)

1530015500

Safety cushion set SP 25 (rescue high up to 25 metres / 80 ft.)

1530018800



Basic design with black cross landing area and white side walls. The neon-yellow side walls enhance the visibility of the safety cushion at night and in bad weather.

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

Technical data*






Safety cushions SP 16 / SP 25	Ext. dimensions (L x W x H) cm / inch	Air requirement at 0.3 bar (4.35 psi) / 0.5 bar (7.25 psi) litres / cu. ft.	Inflating time, approx. sec.	Recovery time sec.	Folded size (L x W x H) cm / inch	Weight incl. compressed air cylinder kg / lbs
SP 16	350 x 350 x 170 138 x 138 x 67	1,235 44	30	10	90 x 55 x 50 35 x 22 x 20	55 121
SP 25	460 x 460 x 240 181 x 181 x 94	2,354 83	60	20	110 x 63 x 45 43 x 25 x 18	80.5 177.5

Safety cushion SP 16:
Working pressure: 0.3 bar (4.35 psi)
Test pressure: 0.45 bar (6.5 psi)

Safety cushion SP 25:
Working pressure: 0.5 bar (7.25 psi)
Test pressure: 0.65 bar (9.4 psi)

All safety cushions can be used in a temperature range from – 20 to + 50 °C (– 4 to + 122 °F).

Accessories – Safety cushions

Inflation hose , for direct connection to compressed air cylinder		on request	Test gauge , for checking the safety cushion		1530002101
Vacuum adapter for safety cushions and rescue paths		1600016300	Valve protection		1600027700
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			
		9 l / 300 bar, (0.32 cu. ft. / 4,350 psi) composite, 5/8" IT, 2,700 l (95.3 cu. ft.)			
		1600019900			

Safety cushion SP 60

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

- › Large landing area
- › Psychologically optimised
- › Setup in 80 seconds
- › Rescue from up to 20 floors

Win against fires in buildings up to 20 floors high! Narrow city streets or inaccessible courtyards are no longer a problem with the SP 60. Rescue trapped persons quickly and easily, even at scenes your team can't reach with aerial ladder trucks .

Benefit from a number of features that make your job more efficient – and rescues safer: Two high-performance permanent blowers inflate the SP 60 within only 80 seconds. The clever two-chamber design and the innovative pressure compensation system ensure optimum impact deceleration. Practical: the quick action connection for blower attachment saves you valuable seconds. The design does without exposed seams on the underside of the safety cushion, preventing friction damage and avoiding unnecessary repairs.



Blower for permanent inflation*

Ramfan EV 420			Leader ESP 230		
	1530020700			1530019100	
	Capacity	16,498 m³ / h 9,705 cfm		Capacity	33,900 m³ / h 19,956 cfm
	Noise level	97 dB		Noise level	84 dB
	Dimensions (L x W x H)	580 x 430 x 410 mm 22.6 x 16.8 x 16 inch		Dimensions (L x W x H)	500 x 548 x 492 mm 19.7 x 21.4 x 19.2 inch
	Weight, approx.	31 kg 68 lbs		Weight, approx.	43 kg 95 lbs
	Motor	1.1 kW, 240 V, 50 / 60 Hz		Motor	2.2 kW, 230 V, 50 Hz

Technical data**

Safety cushion SP 60	Ext. dimensions (L x W x H) cm / inch	Inflating time, approx. sec.	Folded size (L x W 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

The safety cushion SP 60 includes as standard components:

- › Safety cushion SP 60
- › 2 permanent blowers
- › Packing cover
- › Repair and spare parts set

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 psychologically optimised blue circle surface design has been shown to reduce the jumper's fear of heights.



In operation ...

- › Fires in buildings with up to 20 floors
- › Areas inaccessible to aerial ladder trucks such as courtyards and narrow inner-city streets
- › Safeguarding for high-angle rescue



Good reasons:

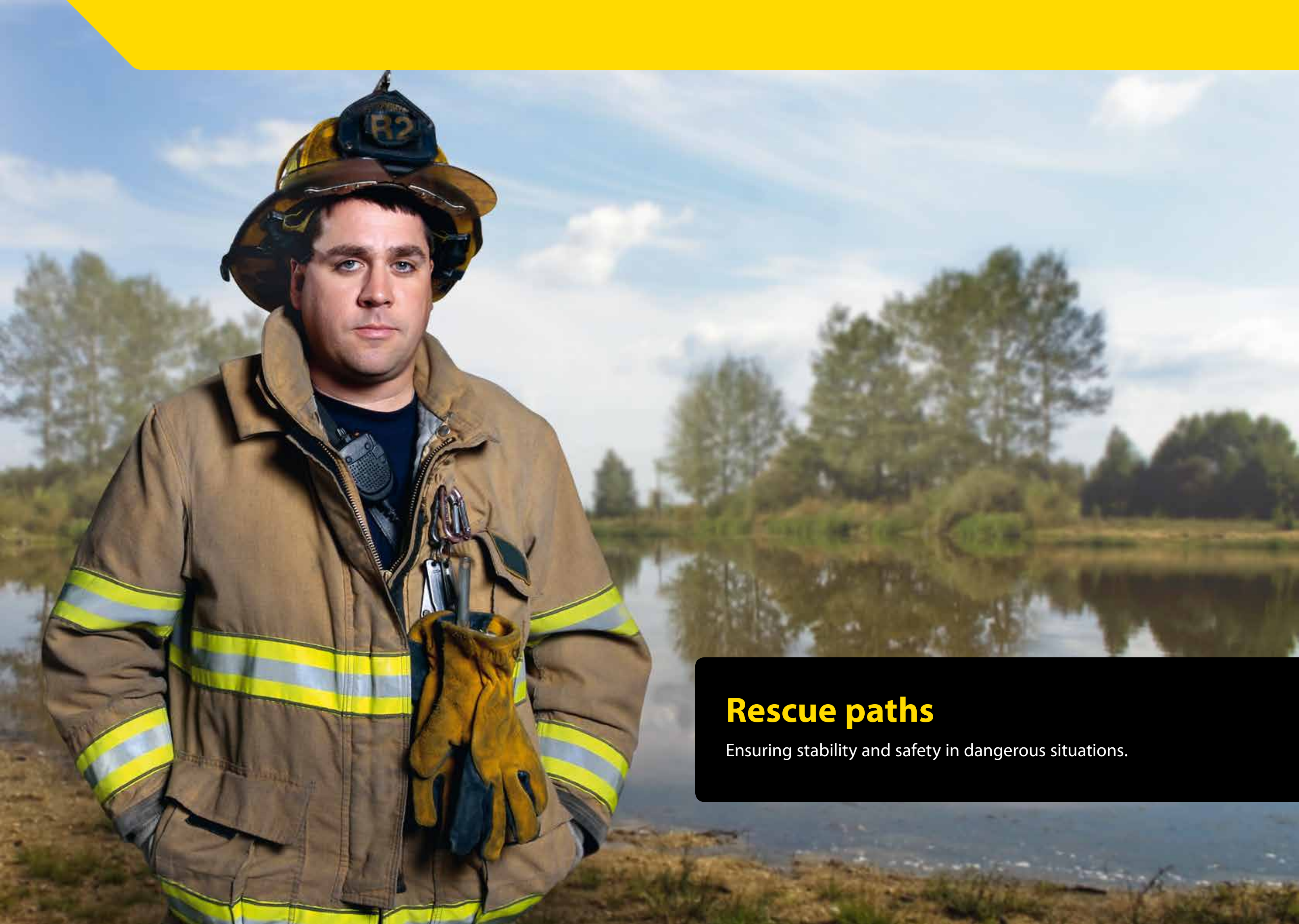
- › Tested based on DIN 14151 T 1 and T 3 (worldwide unique 60 metres safety cushion)
- › Only 4 persons needed for setup and breakdown
- › After a jump, the SP 60 recovers automatically in around 20 seconds
- › Permanent blowers included



Guaranteed quality:

- › Individually tested with falling weights
- › Dated inspection seal
- › 2-year guarantee

* Petrol-driven blowers are also available on request. Also 115 V, 60 Hz available on request.
**Technical changes reserved.



Rescue paths

Ensuring stability and safety in dangerous situations.

Rescue paths

Providing sure footing on all surfaces.

- › Ready for application in seconds
- › Flexibly expendable
- › Easy handling
- › Anti-slip surface

Always retain sure footing – even on unstable ground! With Vetter rescue paths, your team can walk safely across stretches of water, ice, moorland and bog. The rescue paths require very little compressed air and are ready to deploy in seconds. The three standard lengths of 6, 10 and 15 metres (19.2 ft., 32 ft. and 48 ft.) can be connected, so you will be prepared for any emergency scenario. The convenient anti-slip strips provide your team with a firm grip to safely rescue people who are drowning or sinking.



Safe walking on anti-slip strips



Sure footing on the water surface



Rescue path for emergency rescue at sea*

Technical data*

Rescue paths with anti-slip strips	Ext. dimensions (L x W x H) <i>cm / inch</i>	Air requirement at 0.5 bar (7.25 psi) <i>litres / cu. ft.</i>	Inflating time, approx. <i>sec.</i>	Folded size (L x W x H) <i>cm / inch</i>	Weight, approx. <i>kg / lbs</i>
6 m 1530008502	600 x 140 x 10 236 x 55 x 4	1,321 47	18	165 x 35 x 25 65 x 14 x 10	28.3 62.5
10 m 1530008602	1,000 x 140 x 10 394 x 55 x 4	2,196 78	30	165 x 45 x 30 65 x 18 x 12	45.4 100
15 m 1530008702	1,500 x 140 x 10 591 x 55 x 4	3,360 119	45	165 x 60 x 45 65 x 24 x 18	67.5 149

Rescue paths:
Working pressure: 0.5 bar (7.25 psi)
Test pressure: 0.65 bar (9.4 psi)

Load capacity approx. 95 kg / m²
(19.54 lbs / sq. ft.)

*Technical changes reserved.

Accessories

Inflation hose, 500 mm (20 inch), for direct inflation from compressed air cylinder



1530003401
1530007600 (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

9 l / 300 bar, (0.32 cu. ft. / 4,350 psi) composite, 5/8" IT, 2,700 l (95.3 cu. ft.)
1600019900

Vacuum adapter for safety cushions and rescue paths

Attach quick action coupling to air source, the pressure should be between 4 and 6 bar (58 and 87 psi).



1600016300



In operation ...

- › Rescuing people who are drowning or who have fallen through ice
- › Rescue missions on unstable ground
- › Traversing stretches of water or boggy ground
- › Emergency sea rescue



Good reasons:

- › Inflated and ready to use in seconds
- › Several paths variably connectable
- › Optimum edge profile for pulling persons on board



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Integrated safety valve prevents overinflation
- › Tear-proof material





Hazardous material program

Fast response to prevent environmental damage.

Leak sealing bags

Reliable sealing of large areas.

- › Up to 9 bar (130 psi) counterpressure
- › For containers with min. diameter of 50 cm (20 inch)
- › Sealing leaks in tanks
- › Sealing area up to 86 x 57 cm (34 x 22 inch)

Every minute counts when hazardous liquids escape from tanks, pipes or drums. Vetter leak sealing bags are quick and easy to inflate using a foot pump. Thanks to even pressure distribution, the structures around the liquid discharge area are protected and the danger that the leak gets bigger is reduced. All leak sealing bags come with a heavy-duty acid protection cover. Thanks to a pre-fabricated belt slots, the cover does not need to be removed during use or storage. The protective cover has an extra belt pocket, so you always have the right tools ready to hand.



Acid protection cover for safe use and storage.

Sealing reliably with the help of the convenient solution with belt slots



Vetter leak sealing bags come in two different versions:

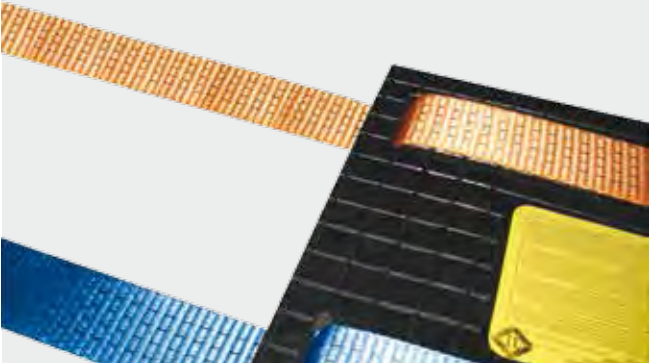
Swivel eyes

- Extra flexible in operation:**
- › Can be braced up to 90°
 - › Can be used in just about every position



Belt slots

- The safe solution when there is a risk of explosion:**
- › Belt slots have zero metal parts
 - › No sparks can be generated



- 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 anti-expansion cover plate
 - › Can be used in narrow gaps
 - › Worked metal plates distribute the tension load over entire width of the bag
- Guaranteed quality:**
 - › Individually tested (with inspection seal)
 - › Heavy-duty, acid protection cover



Leak sealing bag sets

All sets described here include as standard components:

- Foot pump with safety valve 1.5 bar (21.75 psi)
- Inflation hose 1.5 bar, 10 m, blue (21.75 psi, 32 ft.)
- Acid protection cover, PVC, yellow
- 2 sealing plates 60x30x3 cm (24x12x1.2 inch)
- 4 tension and extension belts with ratchet, 10 m (32 ft.), orange and blue
- Transport case 80x60x22 cm (32x24x9 inch)

Sealing bag with swivel eyes

Sealing area of 50 x 30 cm (20 x 12 inch) 1500000103

The leak sealing bag type LD 50/30 W, 1.5 bar (21.75 psi), is available as a set with the above-listed accessories. This set also 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.).



Leak sealing bag with swivel eyes



Leak sealing bag with belt slots

Sealing bag with belt slots

Sealing area of 50 x 30 cm (20 x 12 inch) 1500005302

The leak sealing bag type LD 50/30 S, 1.5 bar (21.75 psi), is available as a set with the above-listed accessories.



Extend the life of your leak sealing bags by using the supplied sealing plates for sharp-edged leaks.


Special leak sealing bag sets

Technical data*

High-pressure leak sealing bag (10 bar / 145 psi)

For counterpressure of up to 9 bar (130.5 psi) 1500011102

The high pressure leak sealing bag resists tank internal pressures of up to 9 bar (130.5 psi), as found in chlorine tanks, for example.



Leak sealing bag type LD 50/30 S, 10 bar (145 psi), with belt slots

Single controller 10 bar (145 psi), fitting control

Inflation hose 10 bar, 10 m, blue (145 psi, 32 ft.)

2 tension and extension belts with ratchet, 10 m (32 ft.), orange and blue

Sealing plate 60x30x3 cm (24x12x1.2 inch)

Acid protection cover, PVC, yellow

Transport case 800x600x120 mm (32x24x4.7 inch)

XL leak sealing bag

Large sealing area of 86x57 cm (34x22 inch) 1500018301

The XL leak sealing bag for large leaks. Suitable for all containers with a diameter greater than 90 cm (35 inch).



Leak sealing bag type LD 110/60 S, XL, 1.5 bar (21.75 psi), with belt slots

Single controller 1.5 bar (21.75 psi), fitting control

Inflation hose 1.5 bar, 10 m, blue (21.75 psi, 32 ft.)

6 tension and extension belts with ratchet, 10 m (32 ft.), orange and blue

2 sealing plates 100x50x3 cm (40x20x1.2 inch)

Acid protection cover, PVC, yellow

Leak sealing bags	Size (L x W x H) <i>cm / inch</i>	Sealing area <i>cm / inch</i>	Air requirement at 1.5 bar (21.75 psi) <i>litres / cu. ft.</i>	Weight of individual bag, approx. <i>kg / lbs</i>	Weight of set, approx. <i>kg / lbs</i>
LD 50 / 30 W 1500005102	61.5 x 30 x 2 24 x 12 x 0.8	50 x 30 20 x 12	17.5 0.6	6.9 15.2	31.7 69.9
LD 50 / 30 S 1500005401	61.5 x 30 x 2 24 x 12 x 0.8	50 x 30 20 x 12	17.5 0.6	4.3 9.5	29 64
Leak sealing bags: Working pressure: 1.5 bar (21.75 psi) Test pressure: 1.95 bar (28.5 psi)			Uniform sealing pressure of 14 m WC (20.3 psi).		
W: Swivel eyes S: Belt slots					

Special leak sealing bags	Size (L x W x H) cm / inch	Sealing area cm / inch	Sealing pressure m WC / psi	Air requirement litres / cu. ft.	Weight of individual bag, approx. kg / lbs	Weight of set, approx. kg / lbs
LD 50 / 30 S, 10 bar* 1500011202	61.5 x 30 x 2 24 x 12 x 0.8	50 x 30 20 x 12	90 130.5	99 3.5	4.6 10.1	21.9 48.3
LD 110 / 60 S, XL 1500014500	110 x 60 x 2 43 x 24 x 0.8	86 x 57 34 x 22	14 20.3	190 6.7	16 35.3	39.5 87.1
Special leak sealing bags: Working pressure: 1.5 bar (21.75 psi), 10 bar (145 psi)* Test pressure: 1.95 bar (28.5 psi), 13 bar (188.5 psi)*						



High-pressure leak sealing bag (10 bar / 145 psi)



XL leak sealing bag with extra large sealing area

Mini leak sealing bags

The small and quick leak-stoppers.

- › Quickly attached with Velcro belt
- › Up to 1.4 bar (20.3 psi) counterpressure
- › Delivered in practical case
- › For containers with diameters 10 – 90 cm (4 – 35 inch)

Vetter mini leak sealing bags are ideal for leaks in small containers with a diameter between 10 and 90 cm (4 and 35 inch). The mini leak sealing bags securely seal liquids and gases, are easy to attach and provide a quick solution in emergencies. The maximum working pressure of 1.5 bar (21.75 psi) is soon reached with just a few strokes of the foot pump – and the container is sealed. Quick and safe Velcro fasteners on the metal-free tension belts make light work of attaching the sealing bags – even in difficult positions.



Mini leak sealing bag with practical Velcro tension belts for quick and easy attachment.

Mini leak sealing bags set

1500009400



- 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)

Technical data*

Mini leak sealing bags	Size (L x W x H) cm / inch	Sealing area cm / inch	Air requirement at 1.5 bar (21.75 psi) litres / cu. ft.	Weight of individual bag, approx. kg / lbs
LDK 10/ 10 1500008300	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
LDK 10/ 25 1500008500	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
LDK 20/ 20 1500008600	25 x 25 x 1.2** 10 x 10 x 0.5	19.5 x 19.5 7.7 x 7.7	5.0 0.18	1.1 2.4

Uniform sealing pressure of 14 m WC (20.3 psi).

Mini leak sealing bags:
Working pressure: 1.5 bar (21.75 psi)
Test pressure: 1.95 bar (28.5 psi)

Weight of set, approx:
10.4 kg (23 lbs)



Sealing bags stop drum leaks.



In operation...

- › Small containers
- › Pipes
- › Rolling hoop drums
- › Containers with diameters 10 – 90 cm (4 – 35 inch)



Good reasons:

- › Flat design (1.2 cm / 0.5 inch)
- › Low air requirement
- › Can be inflated with a foot pump



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Good resistance to chemicals



*Technical changes reserved.
** around valve + 6 mm (0.2 inch)

Leak sealing lance (1.5 bar / 21.75 psi)

The quick fix for sealing leaks.

- › Ready to use in seconds
- › For sealing cracks and holes
- › Only one person required for setup
- › Ensures safe distance from leak

When you're the first person on the rescue site, the Vetter leak sealing lance enables you to act quickly. With no assistance required, you can seal small leaks in storage tanks, tank trucks or wagons in seconds and from a safe distance. By using the wedge and cone bags at the tip of the leak sealing lance, you will effectively reduce the volume flow rate at cracks measuring 15 – 60 mm (0.6 – 2.3 inch) and holes measuring 30 – 90 mm (1.2 – 3.5 inch). Anti-slip profiles on the bags ensure a good grip. The device with its simple design provides an invaluable quick-fix which will buy you time to put further measures in place.



PVC hollow rods can easily be combined to give the lance a maximum length of 140 cm (55 inch).

Leak sealing lance set with foot pump	1500009600
	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 400x300x183 mm (16x12x7 inch)

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 (21.75 psi) litres / cu. ft.	Weight, approx. kg / lbs
Wedge bag 6 1500009800	23 x 6 x 5 9 x 2.4 x 2	1.5 0.05	0.2 0.4
Wedge bag 8 1500010000	23 x 8 x 5.5 9 x 8 x 2.2	3.5 0.12	0.3 0.7
Wedge bag 11 1500010100	23 x 11 x 7 9 x 4.3 x 2.8	7.8 0.28	0.4 0.9
Cone bag 7 1500010200	23 x Ø 7 9 x Ø 2.8	3.0 0.11	0.2 0.4

Leak sealing lance (1.5 bar / 21.75 psi):
Working pressure: 1.5 bar (21.75 psi)
Test pressure: 1.95 bar (28.5 psi)

Weight of set, approx.:
8.1 kg (17.9 lbs)



Seal leaks from a safe distance.

Ready-to-use system in practical transport case.



In operation ...

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



Good reasons:

- › One-person operation
- › Inflatable with foot pump
- › Adequate distance from danger area maintained thanks to 140 cm (55 inch) lance
- › Shut-off unit prevents pressure drop and air leakage when decoupling



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Good resistance to chemicals
- › Highly flexible rubber



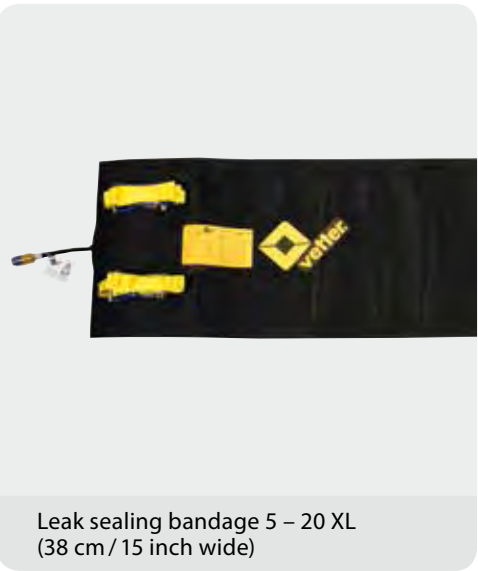
*Technical changes reserved.
** Length with coupling + 6 cm (2.36 inch)

Leak sealing bandages

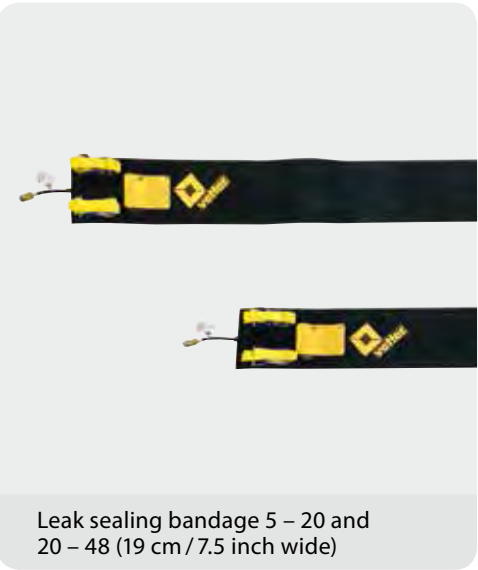
Seal pipes in an instant.

- › Sealing area up to 38 cm (15 inch) wide
- › For pipes with diameters 5 – 48 cm (2 – 19 inch)
- › Belts fixed directly on bag
- › Up to 1.4 bar (20.3 psi) counterpressure

Sudden leaks in pipelines can be sealed in an instant with Vetter leak sealing bandages. Like this, you are always ready for action when an emergency arises. The leak sealing bandages can easily be handled completely on intuition even in first-time use: Wrap bandage around pipeline, tension the belt and inflate the bag. That’s all there is to it!



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*

Leak sealing bandages	Size cm / inch	Sealing area cm wide / inch wide	Air requirement litres / cu. ft.	Weight of individual bag, approx. kg / lbs
LB 5 – 20 1500013900	98 x 21 38.6 x 8.3	19 7.5	22.5 0.8	2.3 5.0
LB 20 – 48 1500014000	177 x 21 69.9 x 8.3	19 7.5	40 1.4	4.0 8.8
LB 5 – 20 XL 1500018200	100 x 40 39.4 x 15.7	38 15	75 2.7	5.5 12.3

Leak sealing bandages:
Working pressure: 1.5 bar (21.75 psi)
Test pressure: 1.95 bar (28.5 psi)

*Technical changes reserved.

Uniform sealing pressure
of 14 m WC (20.3 psi).

The Vetter foot pump:
Practical in use and quickly on-hand.

Recommended accessories

Foot pump 1.5 bar (21.75 psi), with safety valve



0150002800

Inflation and safety hose 1.5 bar,
10 m, blue (21.75 psi, 32 ft.)



0150002201



In operation ...

- › For sudden pipeline leaks
- › For leakages in pipes and round containers with diameters 5 – 48 cm (2 – 19 inch)



Good reasons:

- › Inflatable with foot pump
- › Easy handling
- › Fully reliable sealing
- › Bandage is delivered with belts



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Good resistance to chemicals



High-pressure leak sealing system

Intelligent hose system for complicated pipe leaks.

- › Innovation from Vetter
- › Sealing in difficult-to-access places
- › For leaks in pipes with diameter up to 20 cm (8 inch)
- › For counterpressure up to 9 bar (130 psi)

In close collaboration with Henkel KGaA, Dusseldorf, Vetter has developed an intelligent sealing hose system. Now you can effortlessly access even hard-to-reach leaks in narrow or unevenly shaped piping systems. The flexible hoses fit perfectly even over complicated leaks, e.g. at T-pieces, pipe bends, connecting branches and welded seams. The hoses are inflated in seconds and withstand counterpressure of up to 9 bar (130.5 psi).



Precise sealing of difficult leaks.

Premium set

1500015800

1500019100 (USA)

With the premium set, you are equipped for every eventuality. It can be used with several different sized pipes and to seal several leaks at the same time. The set contains 3 sealing plates and can thus be used with a wide range of hazardous materials.



- Sealing hose 1.5 m, 2.5 m, 3.5 m (59 inch, 98 inch, 138 inch)
- Inflation valve and inflation hose
- Pressure regulator 200 / 300 bar (2,900 / 4,350 psi)
- 3 sealing plates NBR, EPDM, FKM, 150x210x30 mm (6x8x 0.1 inch)
- Bleed valve
- Transport case 600 x 400 x 183 mm (24 x 16 x 7 inch)



Intelligent sealing hose system.



Inflated in seconds.

- 🔧

In operation ...

› Can be used on T-pieces, pipe bends or difficult-to-access connecting branches

› For leaks in pressure lines or fittings
- ✓

Good reasons:

› Universally usable and easy to use

› For counterpressure up to 9 bar (130.5 psi)

› Additional sealing plates for extra stability

› Sealing hoses with electrostatic conductivity (DIN ISO 8031/8.97)
- Q

Guaranteed quality:

› Individually tested (with inspection seal)

› Earth connection to sealing hose coupling on both sides

› All metal parts made of stainless steel




High-pressure leak sealing system

Basic set

1500019000

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
Sealing plate FKM 150x210x30 mm (6x8x0.1 inch)
Bleed valve
Transport case 400x300x183 mm (16x12x7 inch)

Technical data*

High-pressure leak sealing system	Air requirement at 10 bar (145 psi) <i>litres / cu. ft.</i>	Temperature °C / °F	Weight, approx. <i>kg / lbs</i>
1.5 m (59 inch) hose <i>1500015901</i>	8.1 <i>0.3</i>	– 30 bis + 80 <i>– 22 up to + 176</i>	1.1 <i>2.5</i>
2.5 m (98 inch) hose <i>1500016001</i>	14.6 <i>0.5</i>	– 30 bis + 80 <i>– 22 up to + 176</i>	1.4 <i>3.0</i>
3.5 m (138 inch) hose <i>1500016101</i>	20.4 <i>0.7</i>	– 30 bis + 80 <i>– 22 up to + 176</i>	1.8 <i>3.9</i>

High pressure leak sealing system:
Working pressure: 10 bar (145 psi)
Test pressure: 16 bar (232 psi)

Weight, approx.:
Premium set: 12.3 kg (27.1 lbs)
Basic set: 7.3 kg (16.1 lbs)

Uniform counterpressure of 9 bar (130.5 psi).

*Technical changes reserved.

Leak sealing paste


The easy way to seal valve connectors and flanges.

› easy to apply

› good resistance to chemicals

› seals immediately

› fast and easy



Leaking chemicals pose a serious danger to people and the environment. Vetter leak sealing pastes are ideal when immediate action is needed to seal leaks. For the smallest valve connectors and flanges or for receptacles such as tanks, barrels and containers, Vetter leak sealing pastes seal leaks quickly and easily. You avoid further leakage and win valuable time for proper disposal or removal of hazardous materials by specialists.

Vetter leak sealing paste:
Set of eight 500 ml tubs: 1500004600



Vetter X-TREME leak sealing paste:
Set of eight 500 ml tubs: 1500026800

- In operation ...**

› also for hard-to-access leaks

› for sealing pipes and containers

› for leaking liquid chemicals
- Good reasons:**

› immediate action to limit damage

› easy to apply

› seals quickly

› can be used on rusty or dirty surfaces

› can also be used in freezing temperatures
- Guaranteed quality:**

› non-toxic

› non-flammable

› resistant to chemicals

› long lasting



Pipe sealing sleeves

Durable leak seal for high-pressure pipes.

- › Up to 16 bar (232 psi) counterpressure
- › For pipes between ½" and 4"
- › Also suitable for long-term use
- › Supplied in compact transport case

Vetter pipe sealing sleeves reliably seal high-pressure lines with pressure up to 16 bar (232 psi) and can also withstand aggressive liquids. A simple and fully mechanical solution. The sealing sleeves contained in the set will equip you for the most common pipe sizes from DN 15 (15 mm/0.6 inch) to DN 100 (100 mm/3.9 inch). It couldn't be simpler: Gently bring the seal and sleeve close to the leak, place the sleeve over the leak and tighten with the Allen key.



Technical data*

Pipe sealing sleeves	Nominal size mm / inch	For diameter DN	Size (L x W x H) mm / inch	Weight, approx. kg / lbs
1/2" 1500002301	21.3 0.8	15	140x82x40 5.5x3.2x1.6	1.5 3.3
3/4" 1500002401	26.9 1.1	20	140x88x46 5.5x3.5x1.8	1.6 3.5
1" 1500002501	33.7 1.3	25	140x95x49 5.5x3.7x1.9	1.9 4.2
1 1/4" 1500002601	42.4 1.7	32	140x107x52 5.5x4.2x2	2.2 4.9
1 1/2" 1500002701	48.3 1.9	40	140x114x52 5.5x4.5x2	2.3 5.1
2" 1500002801	60.3 2.4	50	140x127x81 5.5x5x3.2	2.5 5.5
2 1/2" 1500002901	76.1 3.0	65	140x146x105 5.5x5.7x4	3.4 7.5
3" 1500003201	88.9 3.5	80	150x163x116 6x6.4x4.6	3.4 7.5
4" 1500003301	114.3 4.5	100	160x214x142 6.3x8.4x5.6	4.5 9.9

Pipe sealing sleeves:
Weight of set, approx.: 23.3 kg (52.3 lbs)

*Technical changes reserved.

Pipe sealing sleeve set 1500002201

- The set includes:
- › All 9 sleeve sizes (one of each size)
 - › Allen key
 - › Transport case 400x300x183 mm (16x12x7 inch)



In operation ...

- › Small cracks and holes in piping systems
- › Also suitable for aggressive liquids
- › For sealing pipe leaks



Good reasons:

- › Can even be used with smallest nominal pipe sizes
- › Suitable for long-term use
- › Withstands counterpressure of up to 16 bar (232 psi)
- › Set comes in handy transport case



Guaranteed quality:

- › Long-term heat resistance up to 80 °C (176 °F)
- › Internal EPDM sealing with very good resistance to chemicals
- › Galvanised surfaces

Leak drainage bags (1.5 bar / 21.75 psi)

Simple sealing and drainage of hazardous substances.

- › Sealing and drainage
- › For containers with min. diameter of 50 cm (20 inch)
- › Sealing area of 50x30 cm (20x12 inch)
- › Up to 1 bar (14.5 psi) counterpressure

Reliably seal leaks and safely drain hazardous substances with the acid drain hose. Vetter leak drainage bags are the ideal solution when substances cannot be drained via the normal opening, or if this can only be done with considerable technical effort, e.g. in the case of high-up discharge openings on tanks or a pump failure. As Vetter leak drainage bags are tensioned with belts, they can be used on many kinds of surfaces. The bags are quick and easy to inflate using a foot pump. Only a few strokes of the pump are required to seal the leak.



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

Leak drainage bag set

1500005902

Leak drainage 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, 10 m, blue (21.75 psi, 32 ft.)

4 tension and extension belts with ratchet, 10 m (32 ft.), orange and blue

Shut-off unit size D, stainless steel

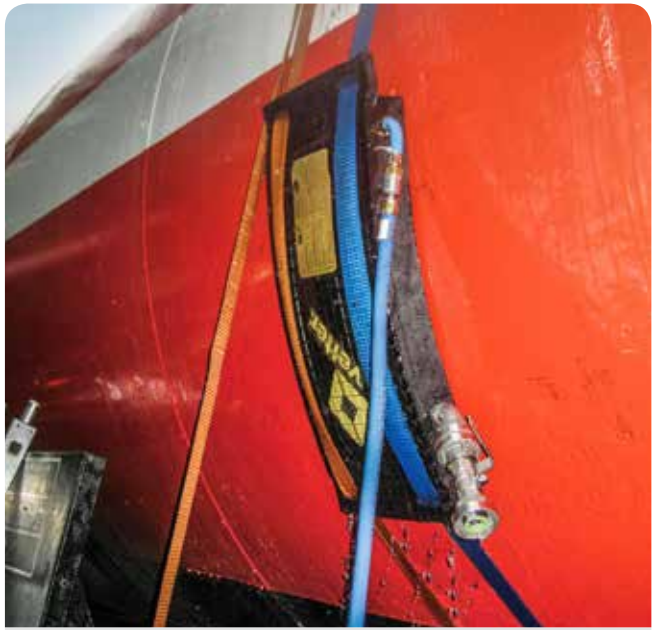
Acid drain hose, 5 m (16.4 ft.), with D suction coupling V4A

Transport case 800 x 600 x 220 mm (32 x 24 x 9 inch)

Leak drainage bag	Size (L x W x H) cm / inch	Sealing area cm / inch	Sealing pressure m WC / psi	Air requirement litres / cu. ft.	Weight of individual bag, approx. kg / lbs	Weight of set, approx. kg / lbs
DLD 50 / 30 1500006001	62 x 30 x 6 24 x 12 x 2.4	50 x 30 20 x 12	10 14.5	2.8 0.1	8.2 18.1	31.9 70.3

Leak drainage bags:
Working pressure: 1.5 bar (21.75 psi)
Test pressure: 1.95 bar (28.5 psi)

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



Precisely adjusts to the surface.

Reliably seal leaks and drain off hazardous substances at the same time.

- ⚙️

In operation ...

› For sealing and draining hazardous substances

› 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 over the entire width of the bag

› Quickly inflatable with foot pump

- Q

Guaranteed quality:

› Individually tested (with inspection seal)

› Stainless steel connections



Vacuum leak drainage bag

Autonomous and ultra-speedy drainage of hazardous substances.

- › Attaches itself quickly to surface

› No attachment belts required
- › Drainage space with 20 cm (8 inch) diameter

› For large containers and storage tanks

Let the power of the vacuum work for you. Vetter vacuum leak drainage bags seal leaks on clean, smooth and slightly curved surfaces in seconds. Without the need for tension belts! Avoiding time-consuming preparatory measures, they allow you to take immediate action in an emergency. The intelligent bag attaches itself to the liquid or gas leak area by creating negative pressure and utterly seals the leak. The round Vetter vacuum leak drainage bags are designed for optimum flow and they drain dangerous liquids safely and quickly.



Vacuum leak drainage bag set	1500019700
	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)

Technical data*						
Vacuum leak drainage bag	Size Ø cm / Ø inch	Drainage space Ø cm / Ø inch	Vacuum bar / psi	Air requirement litres / min. / cu. ft. / min.	Weight of individual bag, approx. kg / lbs	Weight of set, approx. kg / lbs
DLD 50 VAC 1500007501	50 19.7	20 7.9	0.45 6.5	200 7	5.2 11.5	15.5 34.2
Vacuum leak drainage bags: Working pressure of vacuum generator: 6 bar (87 psi)						

*Technical changes reserved.



In operation ...

› Sealing and controlled drainage of hazardous substances

› On smooth surfaces

› On large containers and storage tanks

Good reasons:

› No attachment belts required

› Vacuum generator with manometer on bag

› Round design for optimal flow results

› Acid drain hose with shut-off unit

Guaranteed quality:

› Individually tested (with inspection seal)

› Stainless steel connections

Hazardous material program

Flange drain bag

Perfect fit for safe drainage at flanges.

- › Completely covers the flange
- › For lots of pipe connections
- › For DN 50 (50 mm / 1.9 inch) to DN 100 (100 mm / 3.9 inch) pipes
- › Sealing pressure of 1 bar (14.5 psi)

Problems with leaky pipe connections? Make the task of sealing difficult leaks on all types of flanges easier for your team. Flanges are critical pipe sections and conventional sealing bags will rarely be effective here. Vetter flange drain bags cover the flange and pipe, reliably stop the leakage of hazardous liquids and at the same time allow you to drain off the liquid in a controlled and safe manner. The bags come in three sizes to cover all customary pipelines and flanges. Gel plates are included for convenient smoothing out of minor irregularities and unevenness on the pipe's surface. It couldn't be simpler: Place the bag around the flange and pipe, close the zip fastener along the entire length of the bag and inflate the sleeves. Immediately, everything is sealed and you can commence with controlled drainage of the liquid.



Technical data*

Flange drain bags	External size Ø cm / Ø inch	Length cm / inch	Air requirement at 1.5 bar (21.75 psi) litres / cu. ft.	Weight of individual bag, approx. kg / lbs	Weight of set, approx. kg / lbs
DN 50 1500006600	21 8.3	90 35	1.25 0.1	3.1 6.8	17.8 39.2
DN 80 1500019200	21 8.3	90 35	1.25 0.1	3.1 6.8	17.8 39.2
DN 100 1500023400	25 9.8	92 36	1.25 0.1	3.5 7.7	18.4 40.1

Flange drain bags:
Working pressure: 1.5 bar (21.75 psi)
Test pressure: 1.95 bar (28.5 psi)

**Uniform sealing pressure of
10 m WC (14.5 psi).**

*Technical changes reserved.

All sets described here include as standard components:

- › Inflation hose 1.5 bar, 10 m, blue (21.75 psi, 32 ft.)
- › Foot pump with safety valve 1.5 bar (21.75 psi)
- › Acid drain hose, 5 m (16.4 ft.), with D suction coupling V4A
- › Transport case 800 x 600 x 120 mm (32 x 24 x 4.7 inch)

Flange drain bag sets

DN 50 **1500019600**

Flange drain bag DN 50, 1.5 bar (21.75 psi)
and 4 sealing gel plates

DN 80 **1500019900**

Flange drain bag DN 80, 1.5 bar (21.75 psi)
and 4 sealing gel plates

DN 100 **1500023700**

Flange drain bag DN 100, 1.5 bar (21.75 psi)
and 6 sealing gel plates



In operation ...

- › Sealing and controlled drainage of hazardous substances
- › On flanges and pipe connections



Good reasons:

- › Gas- and liquid-tight zip fastener
- › Acid drain hose with shut-off unit
- › Gel plates supplied to smooth out unevenness included



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Stainless steel connections



Pipe sealing bags and bypass bags FS

Safely seal or divert pipes.

- › Very high resistance to heat
- › Good resistance to chemicals
- › For pipes with diameter up to 140 cm (55 inch)
- › Withstands counterpressure up to 5 m WC (7.25 psi)

Protect sewage systems and ground water from serious contamination. Vetter pipe sealing bags FS help your team stop hazardous substances quickly. With Vetter bypass bags, you can dam up hazardous liquids and gases and divert them controlled using a fire hose. Vetter's pipe sealing bags and bypass bags FS were specifically designed and developed for fire services. The bags individually adjust to different line diameters and are especially resistant to chemicals as well as heat.



Pipe sealing bag FS connection



Bypass bag FS connection with Storz coupling

Technical data*

Pipe sealing bags FS	Pipe diameter cm / inch	Diameter cm / inch	Cylinder length cm / inch	Total length cm / inch	Air requirement litres / cu. ft.	Weight, approx. kg / lbs
RDK 7 / 15 FS 1482000700	7 – 15 3 – 6	6.8 2.7	30 12	34.5 13.6	9.5 0.3	0.5 1.1
RDK 10 / 20 FS 1482000800	10 – 20 4 – 8	9.0 3.5	51 20	55.5 21.9	28.8 1.0	0.9 2.0
RDK 20 / 40 FS 1482000900	20 – 40 8 – 16	19.5 7.7	65.5 25.8	70.5 27.8	160 5.7	3.5 7.7
RDK 30 / 60 FS 1482001000	30 – 60 12 – 24	29.5 11.6	73.5 28.9	78 30.7	362.5 12.8	7.3 16.1
RDK 50 / 100 FS 1482001100	50 – 100 20 – 40	45.0 17.7	111 43.7	117 46.1	1,525 53.8	16.5 36.4
RDK 80 / 140 FS 1482001200	80 – 140 32 – 55	78.5 30.9	181 71.3	185.5 73.0	3,125 110.3	48.0 105.8

Technical data*

Bypass bags FS	Bypass size	Pipe diameter cm / inch	Diameter cm / inch	Cylinder length cm / inch	Total length cm / inch	Air requirement litres / cu. ft.	Weight, approx. kg / lbs
BK 7 / 15 FS 1483002200	1"	7 – 15 3 – 6	6.8 2.7	30 12	36 14.2	6.4 0.2	3.4 7.5
BK 10 / 20 FS 1483001400	2 1/2"	10 – 20 4 – 8	9.7 3.8	48.5 19.1	55.5 21.9	22.5 0.8	3.4 7.5
BK 20 / 50 FS 1483001500	4"	20 – 50 8 – 20	19.5 7.7	55 21.7	67 26.4	157.5 5.6	9.4 20.7
BK 50 / 120 FS 1483001600	4"	50 – 120 20 – 47	45.0 17.7	92 36.2	94 37	1,420 50.1	52.2 115.1
BK 80 / 140 FS 1483001000	4"	80 – 140 32 – 55	78.5 30.9	181 71.3	193 76	3,075 108.6	69.0 152.2

Pipe sealing bags and bypass bags FS:
Working pressure: 1.5 bar (21.75 psi)
Test pressure: 1.95 bar (28.5 psi)
Test counterpressure: 5 m water column (7.25 psi)



Pipe sealing bags FS



Bypass bags FS

- In operation ...**
- › Holding back and diverting liquids/fumes
- › Sealing the openings of tank trucks and wagons
- › Creating a pump sump
- › In pipelines

- Good reasons:**
- › Various sizes available to seal pipe diameters 7 – 140 cm (2.7 – 55 inch)
- › Short-term resistance to temperatures up to 115 °C (239 °F) and long-term resistance to temperatures up to 90 °C (194 °F)

- Guaranteed quality:**
- › Individually tested (with dated inspection seal)
- › High-quality rubber with high resistance to chemicals



*Technical changes reserved.

Universal gully sealing bags

Protects sewage system and ground water from hazardous materials.

- › Good resistance to oil and chemicals
- › Withstands counterpressure of up to 10 m WC (14.5 psi)
- › Delivered in practical transport case
- › For gullies with diameters up to 30 cm (12 inch)

Stop the flow of hazardous liquids along roads, into sewage systems or into ground water. Vetter universal gully sealing bags are ready for use in an instant, easy to put into position and utterly reliable. Position the universal gully sealing bag with a guiding rod directly at the outlet of the gully and then use the sewer inlet as a pump sump. The gully sealing bag can be inflated with the foot pump. It is available in a basic set for one gully size or in a premium set for two gully sizes.



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 (36.25 psi) litres / cu. ft.	Weight, approx. kg / lbs
10 – 15 1470000200	10 – 15 4 – 6	25 9.8	28.5 11.2	9.0 3.5	13 0.5	1.3 2.9
15 – 30 1470001300	15 – 30 6 – 12	35 13.8	39 15.4	14.5 5.7	50 1.8	1.9 4.2

Universal gully sealing bags:
Working pressure: 2.5 bar (36.25 psi)
Test pressure: 3.25 bar (47.1 psi)
Test counterpressure: 10 m water column (14.5 psi)

Weight of set:
Basic set: approx. 13.5 kg (29.8 lbs)
Premium set: approx. 16 kg (35.3 lbs)

Premium set

1470001400

	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, aluminium (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)

Basic set

1470000100

- › 4 universal gully sealing bags type 10 / 15, 2.5 bar (36.25 psi)
- › Positioning rod, interchangeable, aluminium (L = 1.5 m / 58.5 inch)
- › Foot pump with safety valve 2.5 bar (36.25 psi)
- › Transport case 600 x 400 x 183 mm (24 x 16 x 7 inch)



You need the premium set to seal gullies with a diameter up to 30 cm (12 inch).



In operation ...

- › Chemical leaks
- › Floodings
- › To seal gullies
- › To use a sewer inlet as a pump sump



Good reasons:

- › Easy to position with the guiding rod
- › Adequate distance maintained thanks to integrated inflation hose
- › Sewer can be closed again with grate during use
- › Tether for lowering and securing bag



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Resistant to ozone
- › Good resistance to oil and chemicals



*Technical changes reserved.

Compact gully sealing bags

Reliably seal sewage systems and gullies.

- › Good resistance to oil and chemicals
- › Withstands counterpressure of up to 2 m WC (2.9 psi)
- › Ready to use in transport case
- › For gullies with diameters up to 80 cm (32 inch)

With the Vetter compact gully sealing bag, you can take action immediately. Seal the gully together with the sewer inlet: ready to use on the spot, quick to put into position and easy to handle. The sealing bags withstand counterpressure of up to 2 m water column (2.9 psi) and can be inflated with the supplied compressed air cylinder. Seal gullies with a diameter of up to 80 cm (32 inch) the easy way.



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) litres / cu. ft.	Weight, approx. kg / lbs
30 – 50 1460000101	30 – 50 12 – 20	41 16	46 18.1	29.5 11.6	128 4.5	3.7 8.2
50 – 80 1460001400	50 – 80 20 – 32	41 16	46 18.1	45 17.7	426 15	8.3 18.3

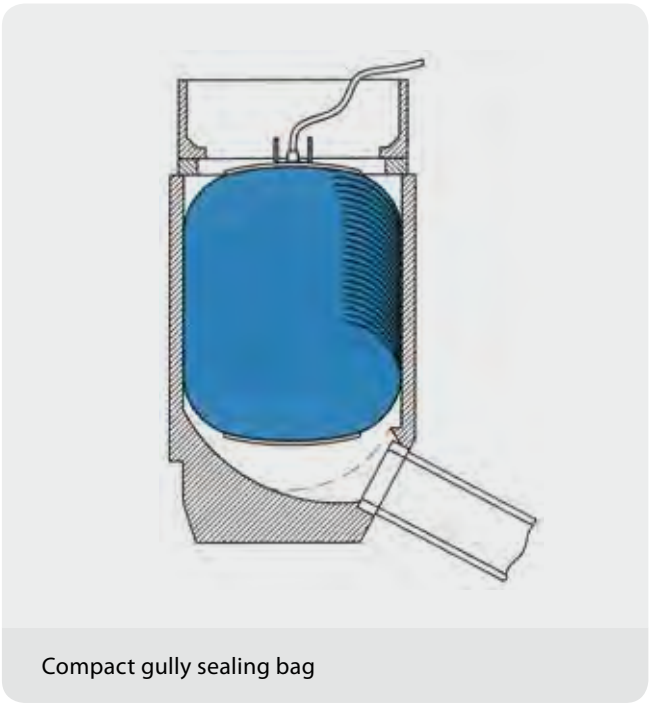
Compact gully sealing bags:
Working pressure: 0.5 bar (7.25 psi)
Test pressure: 0.65 bar (9.4 psi)
Test counterpressure: 2 m water column (2.9 psi)

Weight of set: approx. 11,7 kg (25.8 lbs)

Compact set

1460001001 1460002400 (USA)

	Compact gully sealing bag 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) (not filled)
	Transport case 600 x 400 x 183 mm (24 x 16 x 7 inch)



Compact gully sealing bag

The compressed air cylinder is supplied with the set.

In operation ...

- › Chemical leaks
- › Floodings
- › To seal gullies

Good reasons:

- › Supplied compressed air cylinder (refillable) inflates two bags
- › Inflation fitting can be uncoupled for repeat use
- › Tether for lowering and securing bag

Guaranteed quality:

- › Individually tested (with inspection seal)
- › Resistant to ozone
- › Good resistance to oil and chemicals



Pneumatic collection containers

Collect and store large volumes of hazardous materials.

- › Stable design
- › Collects up to 5,000 l (177 cu. ft.)
- › Set up in seconds
- › High resistance to chemicals

The easy solution for temporary storage. Contaminated and hazardous liquids must be stopped in their tracks straight away. Vetter's pneumatic collection containers can be set up in seconds, buying you valuable time. They create secure reservoirs, which your team can simply pump out at a later stage. You have a choice of materials to suit any given scenario. Our standard containers are made of PVC (e.g. resistant to nitric acid, hydrochloric acid, caustic soda, etc.) or Alcryn (e.g. resistant to ASTM oil No. 1 – 3, gear oil, kerosene, petrol, etc.).



The collection container sets include as standard components:

- › Collection container with PVC inner container
- › Repair material
- › Pressure regulator 200 / 300 bar
- › Packing bag

Technical data*

Pneumatic collection containers	Internal size cm / inch	External size cm / inch	Air requirement at 0.5 bar (7.25 psi) litres / cu. ft.	Capacity litres / cu. ft.	Weight of set, approx. kg / lbs	Folded size (L x W x H) cm / inch
PAB 3,000 litres 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
PAB 5,000 litres 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

Pneumatic collection containers:
Working pressure: 0.5 bar (7.25 psi)
Test pressure: 0.65 bar (9.4 psi)

Uniform height of 95 cm (37 inch).



Collects up to 5,000 l (177 cu. ft.) of liquid.

For extra-strong resistance to oil, inner container also available in Alcryn on request.



In operation ...

- › Collection and temporary storage of environmentally harmful liquids



Good reasons:

- › Self-erecting support frame
- › Inner container with different resistance properties also separately available
- › Highly stable



Guaranteed quality:

- › Individually tested (with inspection seal)
- › High resistance
- › Integrated safety valve prevents overinflation of support frame



Pneumatic collection tubs

High capacity for decontaminating vehicles.

- › Set up in seconds
- › High resistance
- › Decontaminates vehicles up to 20 m (65.6 ft.) length
- › Collects up to 18,000 l (635.6 cu. ft.)

With pneumatic collection tubs from Vetter you can be sure you are using the latest technology and that you are fully prepared even for major emergencies, such as epidemics. In emergency scenarios, you will be able to decontaminate trucks and emergency vehicles, for example, in a safe and controlled way. Stop hazardous substances before they cause environmental damage and store them temporarily until further action can be taken. In the case of a leaking tanker, for instance, push the collection tub directly under the vehicle at the scene of the accident. Vetter's pneumatic collection tubs can be set up in seconds and buy you valuable time to put measures in place to seal leaks.

You have a choice of materials to suit any given scenario. Our standard tubs are made of Alcryn (e.g. resistant to ASTM oil No. 1 – 3, gear oil, kerosene, petrol, etc.) or PVC (e.g. resistant to nitric acid, hydrochloric acid, caustic soda, etc.)



Technical data*

Pneumatic collection tubs made of PVC	Internal size m / inch	External size m / inch	Height cm / inch	Air requirement, at 0.3 bar (4.35 psi) litres / cu. ft.	Capacity litres / cu. ft.	Weight of set, approx. kg / lbs	Folded size (L x W x H) cm / inch
Collection tub 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
Truck tub 10 m (32 ft.) 1513003201 1513003301 (USA)	10 x 3 394 x 118	10.6 x 3.6 417 x 142	30 12	2,717 96	9,000 318	85 187	110 x 85 x 40 43 x 33 x 18
Truck tub 20 m (64 ft.) 1513003101 1513003401 (USA)	20 x 3 787 x 118	20.6 x 3.6 811 x 142	30 12	4,810 170	18,000 636	170 375	110 x 85 x 85 43 x 33 x 33

Pneumatic collection tubs:
Working 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 tarp and the truck tubs are delivered with a 200 / 300 bar (2,900 x 4,350 psi) pressure regulator. Repair material is included with both versions.



Decontamination of entire vehicles.



In operation ...

- › Decontamination of cars and trucks
- › During contagions and epidemics, e.g. avian flu
- › Collection of environmentally harmful liquids
- › Additional protection for leak sealing



Good reasons:

- › Available in lengths up to 20 m (64 ft.)
- › Capacity of up to 18,000 l (635.6 cu. ft.)
- › Self-erecting support frame
- › Also available in special lengths



Guaranteed quality:

- › Individually tested (with inspection seal)
- › High resistance to chemicals
- › Integrated safety valve prevents overinflation of support frame



*Technical changes reserved.

Water tanks

Space-saving storage of fresh and contaminated water.

- › Small folded size
- › Capacity of 500 – 10,000 l (17.6 – 353 cu. ft.)
- › Extremely sturdy material
- › Food-safe version available

Need to store large volumes of water, contaminated extinguishing water or valuable drinking water? That's no problem with Vetter's self-erecting flexible water tanks. Collect and store contaminated water after accidents, storms or fires. Vetter water tanks can hold up to one hundred times their folded volume.

Open water tanks (OWT): The open water tank is self-erecting thanks to the float ring. The tanks, which are made of tear-proof PVC, have a very sturdy anodised 2" aluminium flange and a shock-resistant PVC ball valve. The tank can be filled and emptied with speed and ease using a Storz A coupling. Vetter supplies the water tanks with repair kit as standard in a practical packing bag. As an option, we can also include covers for every tank size.

Closed water tanks (GWT): Reinforced PVC gives the closed water tanks maximum stability. You can also opt to have corner brackets fitted to the tanks for safe transportation by truck – even of filled tanks. An opening on the top side of the tank serves as a vent or for refilling.



Closed water tank

Technical data* – Open water tanks **

Open water tanks	Diameter (bottom) m / inch	Diameter (opening) m / inch	Height m / inch	Weight*** approx. kg / lbs	Folded size cm / inch	Art. no. for cover	Weight cover kg / lbs
OWT 1,000 litres 1510010300	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	1510010900	1 2.2
OWT 3,000 litres 1510010400	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	1510011000	3 6.6
OWT 5,000 litres 1510010500	3.04 119.7	2.0 78.7	1.0 39.4	27 59.5	115 x 64 x 33 45.3 x 25.2 x 13	1510011100	5 11.0
OWT 10,000 litres 1510010600	3.60 141.7	2.4 94.5	1.4 55.1	39 86	115 x 64 x 55 45.3 x 25.2 x 21.7	1510011200	7 15.4

Resistant to temperatures between
– 30 °C and + 70 °C (– 22 °F and + 158 °F)

*Technical changes reserved.
** Delivery incl. packing bag, connection A-Storz
*** Weight incl. packing bag



Open water tank

- 🔧

In operation ...

› Storage and transportation of liquids

› Removal of contaminated extinguishing water

› Provision of drinking water in disaster zones
- ✓

Good reasons:

› Self-erecting without support frame

› Ready to deploy in seconds

› No accessories required

› Very stable and sturdy
- Q

Guaranteed quality:

› Made from strong, durable PVC

› Anodised 2" aluminium flange


› Shock-resistant PVC ball valve

Technical data*

Closed water tanks**				
Closed water tanks	Dimensions (L x W, empty) m / inch	Height m / inch	Weight, approx. kg / lbs	Folded size cm / inch
GWT 500 litres 1510008300	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
GWT 1,000 litres 1510008400	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
GWT 3,000 litres 1510008600	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
GWT 5,000 litres 1510008700	3.5 x 3.1 137.8 x 122.1	0.6 23.6	30 66.1	70 x 45 x 45 27.6 x 17.7 x 17.7
GWT 10,000 litres 1510008900	5.5 x 3.0 216.5 x 118.1	0.8 31.5	41 90.4	115 x 64 x 33 45.3 x 25.2 x 13
GWT 50,000 litres 1510009400	8.6 x 7.4 338.6 x 291.3	1.0 39.4	157 346.1	110 x 102 x 55 43.3 x 40.2 x 21.7

*Technical changes reserved.
** Connection Storz A

**Resistant to temperatures between
– 30 °C and + 70 °C (– 22 °F and + 158 °F)**

Corner bracket set	1510009700
	If you want to be able to transport filled tanks safely on a truck bed, specify the article number of the corner bracket set when submitting your order. We will then supply you with a tank with fixed brackets.



Vetter OWT in Action

Hazardous material tanks

Store and transport hazardous liquids safely.

- › Integrated pressure-relief valve
- › High resistance to chemicals
- › Ready to use in seconds
- › Capacity of 1,000 – 10,000 l (35.3 – 353 cu. ft.)

Protect people, the environment and ground water from hazardous materials. With Vetter hazardous material tanks, you can react to emergencies in an instant: collect the liquids on the spot and safely store them until further action can be taken. Carrying handles on each side and their light-weight, tear-proof nylon material make the tanks stable and easy to position. For your safety, every tank is fitted with a pressure-relief valve as standard for the safe storage of gas-forming liquids. The tanks can also be ordered with specially fitted corner brackets for transport on a truck bed.



Hazardous material tanks with a capacity up to 10,000 (353 cu. ft.).

Technical data*

Hazardous material tanks	Size (L x W) empty m / ft.	Total height (filled) m / ft.	Weight, approx. (empty) kg / lbs	Folded size cm / inch
GGT 1,000 litres 1510015200	2.1 x 1.5 6.7 x 4.9	0.35 1.1	13 28.7	70 x 45 x 45 27.6 x 17.7 x 17.7
GGT 3,000 litres 1510015300	3.6 x 2.2 11.8 x 7.2	0.45 1.5	26 57.3	115 x 64 x 33 45.3 x 25.2 x 13
GGT 5,000 litres 1510015400	3.7 x 3.0 12.1 x 9.8	0.6 2.0	35 77.2	115 x 64 x 33 45.3 x 25.2 x 13
GGT 10,000 litres 1510015500	4.3 x 4.3 14.1 x 14.1	0.85 2.8	53 116.8	112 x 81 x 55 44.1 x 31.9 x 21.7

* Technical changes reserved.

Resistant to temperatures between
– 40 °C and + 70 °C (– 40 °F and + 158 °F).



Automatic pressure-relief valve for
safe storage of gas-forming liquids.

Vetter hazardous material tanks
are extremely resistant to chemicals,
see resistance chart page 139.

- In operation ...**
- › Collection and storage of chemicals
 - › Collection of hazardous materials like oil, petrol, diesel, kerosene, etc.
 - › Temporary storage of large volumes of liquids

- Good reasons:**
- › Ready to deploy in seconds
 - › No accessories required
 - › Automatic bleed valve (0.034 bar / 0.5 psi) on top surface
 - › Very stable and tear-proof

- Guaranteed quality:**
- › Resistant to temperatures between – 40 °C and + 70 °C (– 40 °F and + 158 °F)
 - › TPU-coated, high-strength nylon material
 - › High-frequency welded seams with additional sealing tape

GFRP collection containers

Safe storage of highly aggressive liquids.

- › 9 different sizes
- › Sealing safety lid
- › GFRP materials used for extreme resistance to acids
- › Capacity of 170 – 2,540 l (6 – 90 cu. ft.)

Caution when dealing with corrosive acids and hazardous alkaline solutions! Hazardous liquids pose a particular challenge for your emergency response teams. When simply sealing a leak is not possible, use Vetter's GFRP collection containers to collect corrosive substances. The containers are made of extremely acid-resistant, glass-fibre-reinforced polyester. As the containers come with secure lids with all-round sealing, you can also transport the liquids or keep them in long-term storage.



Technical data*

GFRP collection containers with lid	Size incl. rim cm / inch	Height cm / inch	Capacity litres / cu. ft.	Weight with lid, approx. kg / lbs
170 litres 4000002800	89 x 49 35 x 19	61.5 24	170 6	12.5 27.6
260 litres 4000002900	101 x 59 40 x 23	66.5 26	260 9	20.5 45.2
420 litres 4000003000	117 x 73 46 x 29	71.5 28	420 15	27 59.5
620 litres 4000003100	128 x 89 50 x 35	76.5 30	620 22	35 77.2
860 litres 4000003200	141 x 101 56 x 40	81.5 32	860 30	45.5 100.3
1,210 litres 4000003300	157 x 117 62 x 46	87.5 34	1,210 43	62 136.7
1,610 litres 4000003400	168 x 135 66 x 53	92.5 36	1,610 57	77 169.8
2,050 litres 4000003500	178 x 147 70 x 58	97.5 38	2,050 72	86 189.6
2,540 litres 4000003600	194 x 164 76 x 65	104.5 41	2,540 90	115 253

Hazardous materials container 100 l (3.5 cu. ft.)

4000000200

	<ul style="list-style-type: none">› Stackable collection/storage container with carrying lugs› Smooth inner and outer surfaces for easy cleaning› Incl. clamp-ring lid› Diameter: 59 cm (24 inch), height: 54 cm (21 inch), weight, approx.: 7.5 kg (16.5 lbs)
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Hazardous materials scoop

4000002600

	<ul style="list-style-type: none">› For scooping up shallow pools of liquid› Smooth inner and outer surfaces with bow-type 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)
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Drain gutter for hazardous materials and acids


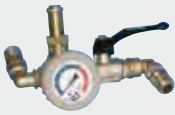
4000000700

	<ul style="list-style-type: none">› For draining liquids in hard-to-reach areas› Connection with snap and clamp assembly› Head piece (length 1.13 m / 44.5 inch) + 3 individual elements (length: 1.09 m / 43 inch)› Total length (when assembled) 4 m (13 ft.)› Dimensions (L x W x H) (stacked): 113 x 58 x 13 cm (44.5 x 23 x 5 inch), weight, approx.: 10 kg (22 lbs)
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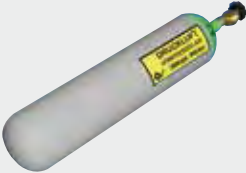


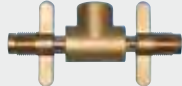
*Technical changes reserved.

Accessories – Hazardous material program

1.5 bar (21.75 psi)			
Inflation hose 1.5 bar, 10 m, blue (21.75 psi, 32 ft.)		Inflation and safety hose 1.5 bar, 10 m, blue (21.75 psi, 32 ft.)	
	0150000101		0150002201
Controller 1.5 bar (21.75 psi)		Foot pump 1.5 bar (21.75 psi), with safety valve	
Dual		Single	
Fitting control			
	0150001801		0150002101
			0150002800

10 bar (145 psi)			
Inflation hose 10 bar, 10 m, green (145 psi, 32 ft.)		Single controller 10 bar (145 psi), fitting control	
	1000000401		1000000201

Inflation – Hazardous material program

Inflation with cylinder			
Compressed air cylinder		Pressure regulator 200 / 300 bar (2,900 / 4,350 psi), with maximum outlet pressure 12 bar (174 psi)	
	1 l / 200 bar, (0.04 cu. ft. / 2,900 psi) steel, 5/8" IT, 200 l (7.1 cu. ft.)		1600026100 1600026200 (USA)
	1600010100	Dual connector, for simultaneous attachment of 2 compressed air cylinders, thread 5 / 8"	
	6 l / 300 bar, (0.21 cu. ft. / 4,350 psi) steel, 5/8" IT, 1,800 l (63.5 cu. ft.)	200 bar (2,900 psi)	
	1600010800		1600008400
	9 l / 300 bar, (0.32 cu. ft. / 4,350 psi) composite, 5/8" IT, 2,700 l (95.3 cu. ft.)	300 bar (4,350 psi)	
	1600019900		1600009100

Inflation – Hazardous material program

Inflation with alternative air source*

Air-supply hose, green		Commercially available hand and foot pump	
	10 m (32 ft.)	Truck tyre valve	
	1600013401		1600008000
	10 m (32 ft.), with shut-off valve	Truck tyre valve connector	
	1600013601		1600012900
Adapter for truck tyre inflation system		Stationary compressed air network	
	1600007800	Adapter for stationary compressed air network	
			1600008200
Truck brake line		Pre-pressure regulator, maximum inlet pressure 16 bar (232 psi)**	
Truck compressed air connector, 2 way			1600014500
	1600007500	Sealing-off cap	
			1600012600

* For every air source other than the compressed air cylinder, you need one of the two green air-supply hoses.


** Note: If the outlet pressure of the compressed air network exceeds the allowed inflation pressure of the controller, then the adapter must be replaced with the pre-pressure regulator.

Compressor

Adapter for construction-site compressor


	1600012000
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Adapter for portable compressor


	1600008200
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Adapter set for all compressed air sources

1600012501

	Air-supply hose, 10 m (32 ft.), green	1600013401
	Air-supply hose, 10 m (32 ft.), green with shut-off valve	1600013601
	Adapter for truck tyre inflation system	1600007800
	Truck tyre valve	1600008000
	Truck tyre valve connector	1600012900
	Truck compressed air connector	1600007500
	Sealing-off cap	1600012600
	Adapter for construction-site compressor	1600012000
	Adapter for stationary compressed air network	1600008200
	Bag 18 x 45 cm (7 x 17.7 inch)	1520002500

Inflation with Vetter hand and foot pump, no further adapters or hoses needed.

	Hand pump, 520 cc / stroke
	1600008700
	Foot pump, 420 cc / stroke
	16000009400



Pneumatic tents and showers

Immediately ready to use and extensively equipped.

Universal tents

Your pneumatic tent for all kinds of operations.

- › Immediately ready to use
- › Extensive standard features
- › Useable area 12 m² to 40 m² (130 to 430 sq. ft.)
- › 20 m² (216 sq. ft.) set up in just 1 minute

Vetter universal tents were developed especially for fire brigades. The tents are designed to need especially little time and personnel for transport, setup and takedown. Benefit from these features of our tents: self-erecting support frame, low weight, small folded size and ease of use. With our pneumatic tents, you can quickly set up protective space for colleagues or injured persons. Use the velcro fasteners to connect tents quickly and easily to other tents or directly with containers. Vetter universal tents are suited to a wide variety of uses such as living quarters for large-scale operations, triage facilities, or decontamination measures. For the latter, you can add Vetter shower units to all our tents.

Your pneumatic tent for quick operations:

- › Only 2 people needed for setup, ready for use in less than three minutes
- › Flexible, mobile and easy to use
- › Long time of use independent of electricity
- › One-piece system in a single package – no loose parts



For optimum performance in the field, Vetter tents are equipped with extensive features – even in the basic version.



Flexible in use and also when cleaning:
Cover and floor separately detachable.



Lighting and ventilation:
enough windows, even in the basic version.



Entry awning can be partly or
completely detached or rolled up.



Custom lettering optional.



In operation ...

- › Operation centre
- › Weatherproof changing tent
- › Crew or mess tent for large-scale operations
- › Triage facility



Good reasons:

- › Multifunction inflation connection for use with compressed air cylinder or blower
- › Remains operational for several days without additional air
- › Patented securing net in roof area optionally available



Guaranteed quality:

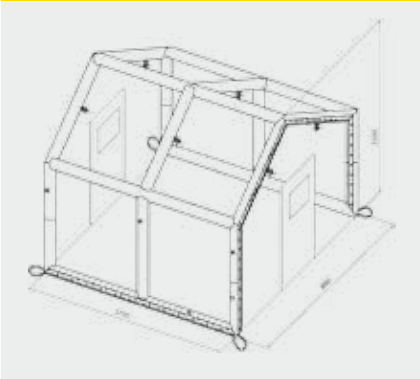
- › Individually tested (with inspection seal)
- › Integrated safety valve prevents overinflation
- › High-quality, durable support frame
- › Mould- and flame-resistant PU-cover material (DIN 4102 B1)



The different tent sizes compared

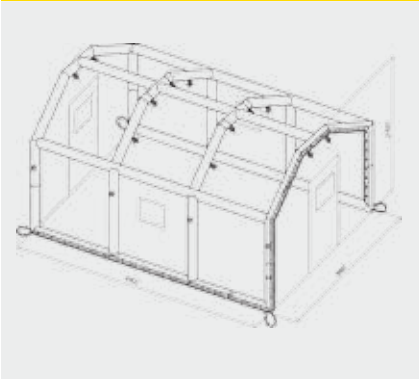


Universal tent PZ 12 m²
(130 sq. ft.)



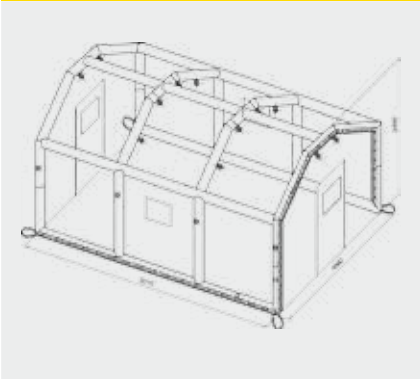
Article number	1520002901	
Setup time	sec.	40
Ext. dimensions (L x W x H)	cm ft.	370 x 386 x 258 11.8 x 12.4 x 8.3
Int. dimensions (L x W x H)	cm ft.	370 x 350 x 240 11.8 x 11.2 x 7.7
Air requirement	litres cu. ft.	1,632 57.6
Folded size (L x W x H)	cm inch	110 x 85 x 40 43 x 33 x 16
Weight, approx.	kg lbs	55 121
Connectable with	PZ 12	
Number of windows	2	
Universal tents: Working pressure: 0.5 bar (7.25 psi) Test pressure: 0.65 bar (9.4 psi)		

Universal tent PZ 17 m²
(183 sq. ft.)



1520000401	
50	
490 x 386 x 248 15.7 x 12.4 x 7.9	
490 x 350 x 230 15.7 x 11.2 x 7.4	
2,025 71.5	
110 x 85 x 60 43 x 33 x 24	
65 143	
PZ 17, PZ 20 Decon	
4	

Universal tent PZ 20 m²
(216 sq. ft.)



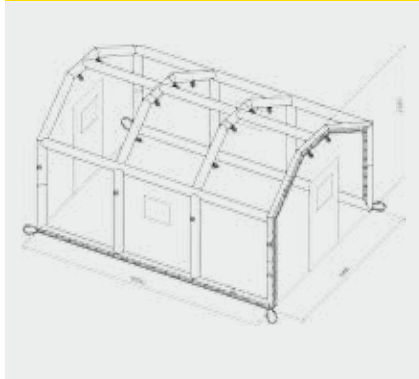
1520004701	
55	
501 x 436 x 248	
16 x 14 x 7.9	
501 x 400 x 230	
16 x 12.8 x 7.4	
2,332	
82.3	
110 x 85 x 60	
43 x 33 x 24	
75	
165	
PZ 20	
4	

All universal tents include as standard components:

- › Inflatable tent frame with tensioning ropes
- › Detachable tent floor
- › 1 door at each front side
- › Detachable tent cover with separate entry awnings (partly or completely rollable)
- › Attachment loops in tent interior, e.g. for lamps
- › Sufficient number of windows

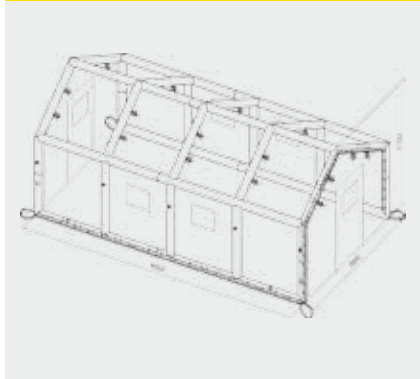
The PZ 30 and PZ 40 universal tents are equipped with two air chambers for faster inflation. Each tent includes an accessory bag with hammer, pegs and repair material. All of the equipment is delivered in a handy package with carrying handles.

Universal tent PZ 25 m²
(270 sq. ft.)



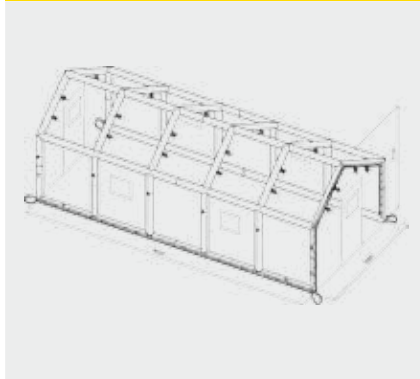
Article number	1520008901	
Setup time	sec.	120
Ext. dimensions (L x W x H)	cm	500 x 536 x 258
	ft.	16 x 17.2 x 8.3
Int. dimensions (L x W x H)	cm	500 x 500 x 240
	ft.	16 x 16 x 7.7
Air requirement	litres	2,568
	cu. ft.	90.7
Folded size (L x W x H)	cm	110 x 85 x 60
	inch	43 x 33 x 24
Weight, approx.	kg	85
	lbs	187
Connectable with	PZ 25	
Number of windows	4	
Universal tents:		
Working pressure: 0.5 bar (7.25 psi)		
Test pressure: 0.65 bar (9.4 psi)		

Universal tent PZ 30 m²
(323 sq. ft.)



1520009402	
130	
600x550x310 19.2x17.6x9.9	
600x514x290 19.2x16.4x9.3	
2,866 101.2	
110x85 x60 43x33 x24	
104 229	
PZ 30, PZ 40, PZ 40 3 L	
6	

Universal tent PZ 40 m²
(430 sq. ft.)



1520010602
150
800x550x310 25.6x17.6x9.9
800x514x290 25.6x16.4x9.3
4,060 143.3
110x85x85 43x33x33
117 258
PZ 30, PZ 40, PZ 40 3 L
6

The Vetter standard colours



You want another colour? No problem, just call us on: +49 (0)2252 / 3008-0

You need a special size? We will be happy to produce any size for you.

Decontamination tent PZ 17 2 L

Decontamination of civilians or insertion teams.

- › Operational in only 5 minutes
- › Gender-specific room division
- › For up to 4 persons simultaneously
- › Combination of shower and dressing room

Decontaminate civilians as well as insertion personnel with the PZ 17 2 L. Due to its lengthwise partition, the tent is divided into 2 decontamination lines. These two lines provide sufficient space for separate showering of men and women. The shower units divide the tent into undressing, shower and dressing area. As each shower unit possesses a separate water supply, water amounts or temperature can be controlled individually. The colour coding of the passages in the tarpaulin (blue: water, red: heating or power, green: compressed air) provide practical orientation during deployment. The continuous catchment basin in the shower area prevents the transgression of liquid into the rest of the tent. If required, simply connect the Universal Tent PZ 17 as an additional supply or accommodation tent to the PZ 17 2 L and thus extend the function scope.



Simultaneous decontamination on 2 lines.

Decon Tent PZ 17 2 L comes standard with these components:

- › Inflatable tent frame including the guy cable
- › Removable tarpaulin with removable entrance tarpaulins
- › 4 doors (2 in each entrance tarpaulin)
- › 4 windows (2 in each entrance tarpaulin)
- › Removable tent floor
- › Removable longitudinal partition for subdividing the tent into the 2 lines
- › 2 shower units and shower hoses
- › Shower basin made of polyester fabric, PVC coated on both side (other qualities on request)
- › 4 shower handsets (2 handsets per shower unit)

Each tent comes with an accessories case including a hammer, earth pins and repair material. The whole equipment is supplied in a practical pack unit.

Technical Data*

Decon Tent PZ 17 2 L	Erection time sec.	Size, exterior (L x W x H) m/ft	Size, interior (L x W x H) m/ft	Air requirement litres/cu.ft.	Stowing dimensions (L x W x H) m/ft	Weight ca. kg/lbs	Collecting basin, litres/cu.ft.
17 m², 2 lines 1520047000	60	4.9 x 3.86 x 2.48 16 x 13 x 8	4.9 x 3.5 x 2.3 16 x 12 x 8	2664 94	1.1 x 0.85 x 0.6 3 x 2 x 1	102 225	980 35

The Vetter standard colours



Would you like a different colour?
No problem! Just give us a call:
+49 (0)2252 / 3008-0

Recommended accessories

Floor grate for shower basins,
50 x 50 x 5 cm (19.5 x 19.5 x 1.9 inch), grey



1520039000

Waste water pump with flat suction**



1520041600

Mobile instant water heater „Dekon Mobil“ with
integrated mixer



1520049800



In operation for...

- › Epidemics
- › Decontamination of patients in front of hospitals
- › ABC protective measures after factory and reactor accidents
- › Terror attacks or in case of war



Good reasons:

- › Saves time and personnel
- › Only one filling connection for the entire system
- › Fill with compressed air bottle or with a blower
- › Removable components makes tent easy to clean
- › Can be coupled with the PZ 17 Universal Tent



Guaranteed quality:

- › Individually tested (Seal of Approval)
- › Integrated safety valve prevents overfilling
- › Support frame made of sturdy material



*Technical changes reserved.

** The associated technical data can be found on page 118.

Decontamination tent PZ 40 3 L

Safe and quick mass decontamination.

- › Ready to use in only 5 minutes
- › Optimised room layout
- › For up to 12 persons at a time
- › Also for injured persons in horizontal position

Every minute counts in an emergency. Decontaminate large numbers of people in a short time. With two longitudinal separation walls, the tent can be divided into 3 decontamination lines. Use the middle line (1.85 m / 5.93 ft. wide) for decontamination of injured persons in horizontal position, the two outer lines (1.62 m / 5.18 ft. wide) offer enough space for separate showering of men and women. The shower units divide the tent into areas for undressing, showering and dressing. Since every shower unit has its own water supply, the quantity and temperature of water can be controlled individually. The colour coding of the duct openings in the tent provides practical orientation (blue: water, red: heating or electricity, green: compressed air). A one-piece collection tub in the shower area prevents liquids from pouring into the tent. To extend the functionality of the PZ 40 3 L, you can easily connect PZ 30 and PZ 40 universal tents and use them as additional supply or accommodation units.



Simultaneous decontamination on 3 lines.

The PZ 40 3 L decontamination tent includes as standard components:

- › Inflatable tent frame with tensioning ropes
- › Detachable cover with detachable entry awnings
- › 6 doors (3 in each entry awning)
- › 6 windows (3 in each entry awning)
- › Detachable floor
- › 2 detachable longitudinal separation walls for dividing the tent into the 3 lines
- › 3 shower units with removable shower curtains and shower hoses
- › Shower basin of polyester fabric with PVC coating on both sides (other qualities on request)
- › 12 hand showers (4 per shower unit)

Each tent includes an accessory bag with hammer, pegs and repair material. All of the equipment is delivered in a handy package. An expandable roller conveyer with spineboards is optionally available.

Technical data*

Decon tent PZ 40 3 L	Setup time sec.	Ext. dimensions (L x W x H) m / ft.	Int. dimensions (L x W x H) m / ft.	Air requirement litres / cu. ft.	Folded size (L x W x H) m / inch	Weight, approx. kg / lbs	Collection tub litres / cu. ft.
40 m², 3 lines (430 sq. ft.) 1520035500	300	8 x 5.5 x 3.1 25.6 x 17.6 x 9.9	8 x 5.1 x 2.9 25.6 x 16.3 x 9.3	6,863 242.3	1.1 x 0.85 x 0.85 42.9 x 33.2 x 33.2	204 450	2,610 92.1

The Vetter standard colours



Would you like a different colour?
No problem! Just give us a call:
+49 (0)2252 / 3008-0

Recommended accessories

Floor grate for shower basins,
50 x 50 x 5 cm (19.5 x 19.5 x 1.9 inch), grey



1520039000

Waste water pump with flat suction**



1520041600

For decontamination of injured persons
in horizontal position



Expandable roller conveyor

1520039700

Spineboard

1520039400



In operation ...

- › Epidemics
- › Decontamination of patients in front of hospitals
- › ABC protection measures after industrial and reactor accidents
- › Terror attacks or events of war



Good reasons:

- › Saves time and personnel
- › Only one inflation connection for the entire system
- › Inflation with compressed air cylinder or blower
- › Detachable components for easy cleaning
- › Connectable with universal tents PZ 30 or PZ 40



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Integrated safety valve prevents overinflation
- › Support frame of sturdy material



*Technical changes reserved.

** The associated technical data can be found on page 118.

Decontamination showers

The mobile decon unit for quick missions.

- › Extensive pro-equipment
- › Self-erecting
- › Easy to integrate in a decontamination line

Vetter decontamination showers are specially tailored to your mission. Light and mobile, they fit on every emergency vehicle. The fronting basin prevents the spread of contaminated liquids. Clever magnetic fasteners for quick opening and closing of the shower curtain save valuable time in emergencies. With the integrated gloves, you can safely clean contaminated persons from outside. The raised support frame of our decontamination showers allows ergonomic posture while working. Eight movable shower nozzles at various heights guarantee complete cleaning. After cleaning, contaminated liquids can be drained from the inlaid basin without using a submersible pump. With their robust overall construction and special abrasion-resistant undersides, Vetter decontamination showers are especially durable. Extended by an universal tent, the shower can also feature areas for dressing and undressing.



Raised support frame for ergonomic working



Dual Decon shower, perfect for decontaminating casualties in the horizontal position



Integrated hand-held shower allows complete cleaning



In operation ...

- › Epidemics
- › Decontamination of patients in front of hospitals
- › Decontamination lines
- › Terror attacks or events of war
- › Personnel or patient shower in mobile hospitals



Good reasons:

- › Ready for use quickly
- › Can be combined with Vetter universal tents
- › Detachable components for easy cleaning
- › Includes everything professionals need



Guaranteed quality:

- › Individually tested (with inspection seal)
- › Integrated safety valve prevents overinflation
- › Support frame of sturdy material



Technical data for decontamination showers

The decon showers include as standard components:

- › Inflatable support frame with tensioning ropes

› Detachable shower hose and curtain
- › Replaceable inlaid basin of polyester fabric with PVC coating on both sides (other qualities on request)
- › 8 movable nozzles at various heights

› Fixture for attachment of an additional hand shower

Each shower includes an accessory bag with pegs and repair material.
All of the equipment is delivered in a handy packing bag with carrying handles.



Technical data*

Decon showers		Compact shower	Decon shower	Dual Decon shower
Pro-model with gloves and drain		1513003700	1513001801	
Basic model		1513000102	1513003900	
Dual Decon shower				1513009700
Setup time, approx.	sec.	30	40	150
Ext. dimensions (L x W x H)	m ft.	1.56 x 1.56 x 2.2 5 x 5 x 7	2.76 x 1.56 x 2.2 9 x 5 x 7	5,54 x 2,36 x 2,85 18 x 8 x 9
Int. dimensions (L x W x H)	m ft.	1.2 x 1.2 x 2.2 4 x 4 x 7	2.4 x 1.2 x 2.2 8 x 4 x 7	5,18 x 2,0 x 2,07** 17 x 7 x 7
Basin height	cm ft.	20 0.65	20 0.65	20 0.65
Air requirement	litres cu. ft.	682 24	738 26	2.000 70
Capacity	litres cu. ft.	300 11	770 27	1.234 44
Ø Flow rate	litres / min. cu. ft. / min.	25 0.9	25 0.9	25 0.9
Folded size	m inch	1.1 x 0.72 x 0.3 43 x 28 x 12	1.1 x 0.72 x 0.3 43 x 28 x 12	1,1 x 0,85 x 0,4 43 x 33 x 16
Weight, approx.	kg lbs	24 – 29 53 – 64	27 – 32 60 – 71	71 156

*Technical changes reserved.
* side wall



Anti-slip predestal prevents contact with contaminated water



Integrated gloves for safe external cleaning

Recommended accessories

Coloured tarpaulins for decontamination lines, PVC, 2,5 x 4 m (97.5 x 156 inch)

	●	1513002701
	●	1513000901
	●	1513000801

Hand shower, for shower tents / showers

	1510001700
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Dekon Spritzbrause, quick-stop Funktion

	1510014700
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Waste water pump with flat suction*

	1520041600
--	------------

Floor grate for shower basins, 50 x 50 x 5 cm (19.5 x 19.5 x 1.9 inch), grey

	1520039000
--	------------

Mobile instant water heater „Dekon Mobil“ with integrated mixer

	1520045400
--	------------

Closed water tank (GWT), (Sizes 500 l), for catchment / interim storage of leaking liquids, waste water storage

	1510008300
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*The associated technical data can be found on page 118.

Tent customising

We meet your requirements, quickly and individually.

Complete freedom of design for individual tents – you can only get that at Vetter. If you are looking for a tent that provides the best possible support for your mission and a standard tent won't do the job, look no further than Vetter. We can produce a tent to match your wish configuration.

Your tent tailor

At Vetter, much is done by hand. That is why we can guarantee the utmost care and best quality, even for single series. Benefit from our decades of experience as experts for emergency pneumatics to realise the tent concept that is perfect for you.



Your options for individualization are infinite:



Fitting with insulation cover and/or inner tent



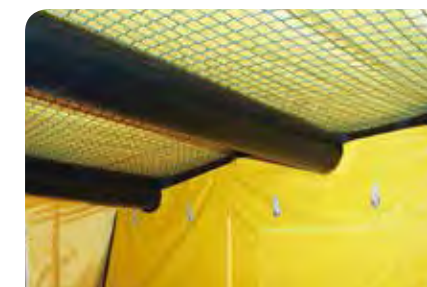
Transverse and longitudinal separation walls in any combination



Windows only with fly screens or with extra polyglass



Free choice of shape and number of windows and doors



Patented securing net



Floor removable (inside only) or completely detachable



Docking options for tents and containers



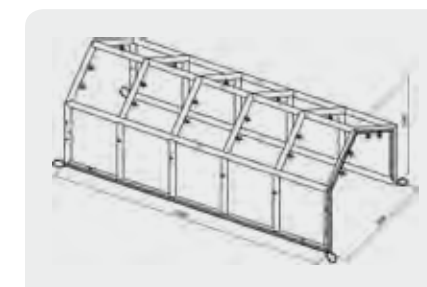
Extra duct openings for cables or heating



Ventilation hoods



Special colours and combinations to choose from



Special sizes on request



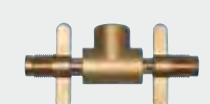








Custom lettering










The variations depicted here are only a selection of your options. Is the one you imagine missing? Just call us!

Together, we will find the right solution for every mission.
Ask us! +49 (0)2252 / 3008-0 or vetter.info@idexcorp.com or www.vetter.de.

Inflation and deflation – Pneumatic tents

Inflation with cylinder		
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	
	9 l / 300 bar, (0.32 cu. ft. / 4,350 psi) composite, 5/8" IT, 2,700 l (95.3 cu. ft.)	
	1600019900	
Dual connector, for simultaneous attachment of 2 compressed air cylinders, thread 5/8"		
200 bar (2,900 psi)		
	1600008400	
300 bar (4,350 psi)		
	1600009100	
Pressure regulator 200 / 300 bar (2,900/4,350 psi)		
	with maximum outlet pressure 12 bar (174 psi)	
	1600026100	
	1600026200 (USA)	
Inflation hose for PZ 30 + PZ 40, with brass nipple		
	1520033800	
Blower 0.23 – 0.47 bar (3.3 – 6.8 psi), electric		
	1523017700 (230 V)	1523017900 (120 V)
	Volume flow rate, max.	1,800 l / min.
	Volume flow rate with booster, max.	2,500 l / min.
	Power, max.	1,000 W
	Power with booster, max.	2,000 W
	Voltage	230 / 50 V / Hz
	Dimensions (LxWxH)	32 x 17 x 26 cm 12.5 x 6.6 x 10.1 inch
	Weight, approx.	4.1 kg 9 lbs
Inflation hose 1.5 m (59 inch), for blower 0.23 – 0.47 bar (3.3 – 6.8 psi)		
	1523021100	
		
Deflation		
Vacuum adapter, for quick and complete deflation of the support frame, quick action coupling is attached to air source, pressure should be between 4 and 8 bar (58 and 116 psi).		
	1700018300	
Adapter, from claw coupling to brass inflation connector		
	1600012000	

Equipment – Pneumatic tents


Windows and walls		
Window, with fly screen and cover		
	1520020600	
Roof window, with cover for darkening inside and protection screen (polyglass) outside		
	1520041300	
Window, with fly screen, cover and additional wind screen (polyglass)		
	1520025700	
Ventilation flap, for better ventilation, set into gable		
	1520025800	
Duct opening, (additional) for cables or heating, with velcro		
	1520020500	
Tent printing, single colour, on one outer side (multicoloured on request)		
	1520022400	
Insulation cover, for protection against extreme temperatures		
	1520026000	
Printed cover, single colour, 1,300 x 600 mm (50.7 x 23.4 inch) (multicoloured on request)		
	1520025600	
Separation walls, transverse*		
	PZ 12	1520004100
	PZ 17	1520001100
	PZ 20	1520005600
	PZ 25	1520014500
	PZ 30	1520010201
	PZ 40	1520011401
	Also needed: Fasteners for attaching separation walls (for all tents)	1520002600

Longitudinal separation walls are available on request.
Just call us on: +49 (0)2252 / 3008-0


* Suspension for separation walls is not included in standard.


Equipment – Pneumatic tents


patented Nets for the ceiling, with fasteners		
	PZ 12	1520004400
	PZ 17	1520002700
	PZ 20	1520020000
	PZ 25	1520005700
	PZ 30	1520010400
	PZ 40	1520011700

Ballast tank, for better protection against high winds, 2 ballast tanks per tent required		
	PZ 12	1520003200
	PZ 17, PZ 20, PZ 25	1520000700
	PZ 20 Decon, PZ 30	1520007500
	PZ 40, PZ 40 3 L	1520010900


Lamps

Plug and socket IP 54, splash-proof	
	2 x 36 watt
	1520038600
	2 x 55 watt
	1520038900

Plug and socket IP 68, protected against water ingress on permanent immersion	
	2 x 36 watt
	1520038700
	2 x 55 watt
	1520038800

Plug and socket IP 68 I LED shelter lightening, protected against water ingress on permanent immersion	
	36 watt
	1700061300


Climate control – Pneumatic tents


Tent heaters ATK 25 (automatic oil heaters)		1520028600
	Heating output	22.5 kW
	Nominal heating load, max.	25 kW
	Air flow rate	1,080 m³ / h
	Voltage	230 / 50 V / Hz
	Fuel	Heating oil EL or diesel
	Fuel consumption, max.	2.4 kg / h
	Tank volume	40 litres 1.4 cu. ft.
	Exhaust supports Ø	150 mm 5.8 inch
	Dimensions (L x W x H)	126.5 x 47 x 68.5 cm 49.4 x 18.3 x 26.7 inch
Weight, approx.		68 kg 150 lbs

Accessoires ATK 25	
	Damp room thermostat IP 54, with 10 m (32 ft.) cable and plug
	1520028700
	Warm air hose, Ø 305 mm (11.9 inch), L: 7,000 mm (22.4 ft.)
	1520028800
	Exhaust tube, 1 m (3.3 ft.)
	1520028900
	Rain cover, Ø 150 mm (5.85 inch), for protection against rainwater
	1520029000


Contact us if you are exposed to especially high or low temperatures. We will find the right solution for you. +49 (0)2252 / 3008-0 or vetter.info@idexcorp.com

Climate control – Pneumatic tents

Tent heaters K 30 T (automatic oil heaters)		1520040900 (230V)
 K 30 T	Heating output	29 kW
	Nominal heating load, max.	32 kW
	Air flow rate	2,050 m³/h
	Voltage	230 / 50 V / Hz
	Fuel	
	Fuel consumption, max.	2.5 kg/h
	Tank volume	35 litres 1.2 cu. ft.
	Exhaust supports Ø	2 x 205 mm 8 inch
	Dimensions (L x W x H)	145 x 68 x 82 cm 56.5 x 26.5 x 32 inch
	Weight, approx.	85 kg 187.5 lbs

Accessories K30 T	
	Damp room thermostat IP 44, with 10 m (32 ft.) cable and plug
	1520017300
	Warm air hose, Ø 203 mm (7.9 inch), L: 7,600 mm (24.3 ft.)
	1520017100


	Exhaust tube, 1 m (3.3 ft.)
	1520017200
	Rain cover, Ø 150 mm (5.85 inch), for protection against rainwater
	1520017400


Combination heater GHE 15 (gas/electric)		1520004800
	Heating output	3 kW (electric) 7 – 14 kW (gas)
	Volume flow rate	520 m³/h
	Voltage	230 / 50 V / Hz
	Gas consumption, max.	1.09 kg/h
	Dimensions (L x W x H)	51 x 21.5 x 33.5 cm 20.1 x 8.5 x 13.2 inch
	Weight, approx.	10 kg 22.1 lbs

Water supply – Pneumatic tents

Water supply

Freshwater pump, with suction hose and strainer, Suction connection: R 1" IT, Pressure connection: R 1" OT fitted with Storz D coupling		1520015800
	Flow rate	88 l/min.
	Voltage	230 / 50 V / Hz
	Speed	2,900 U/min.
	Protection class	44° F / IP
	Fuse rating	16 A/min.
	Suction lift max.	8 m 26.2 ft.
	Power consumption	1.3 kW
	Rated current	5.5 A
	Dimensions (L x W x H)	42 x 29 x 40 cm 16.5 x 11.5 x 15.5 inch
	Weight, approx.	13 kg 28.7 lbs

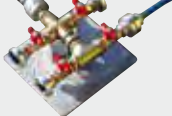

Waste water hose, 15 m, Storz D	
	1523029500



Mobile instant water heater „Dekon Mobil“ with integrated mixer		1520049800
	Throughput, approx.	40 l/min max.
	Operating pressure	15 bar max. (integrated pressure regulator to 6 bar)
	Water temperature	30°C - 60°C
	Internal burner thermostate	regulatable to max. 140°C
	Ignition control system	thermically controlled
	Net heating performance, approx.	90 kW
	Diesel consumption, approx.	7.8 l/h (calculated for permanent operation)
	Power connection / alternating current	230 V/50 Hz/0.3 kW
	Electrical control	24 V low voltage
	Dimensions	89 x 57 x 80 cm
	Weight (net) approx.	65 kg (without full tank)


Dosing device, with suction hose, connection: Storz D		1520016000
	Operating rate	10 l/h
	Working pressure	6 bar / 87 psi
	Operating temperature max.	40 °C / 104 °F
	Dosage amount	0.1 – 152 l/h
	Dosage	1 – 5 %
	Dimensions (L x W x H)	40 x 60 x 70 cm / 15.6 x 23.4 x 27.3 inch
	Weight, approx	8,9 kg / 19.6 lbs



* Protection against contact with tools, wires and similar objects with Ø > 1 mm (0.039 inch); protection against foreign bodies Ø > 1 mm (0.039 inch); splash-proof from all directions



Water supply – Pneumatic tents

Water distributor , 4-way, Storz D, e.g. for simultaneous operation of up to 4 showers	
	1520015600
Water supply hose , rubber, wound, dimensionally stable, suitable for hot water, length 2 m (6.6 ft.)	
	1520015500

Waste water management	
Mini permanent aspirator MPA 2.0 MWF	Exhaust nozzle for Decon-tub
	
2220003200	1700014701






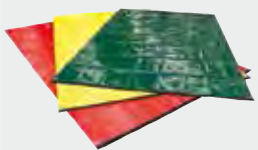










Waste water pump with flat suction, Storz D coupling		1520041600
	Flow rate	170 l/min.
	Motor	230 V AC
	Protection class	Schuko IP 44
	Pumping height	7 m (WC) 23 ft.
	Power P1 / P2	430 / 210 W
	Rated current	2.1 A
	Dimensions	Ø 17.5 x 28 cm 6.8 x 10.9 inch
Weight, approx.		5.1 kg 11.2 lbs

Waste water hose , 15m Storz D	
	1700065500
Adapter piece C-D , as connector from the waste-water hose to the water tank	
	--

Open water tank (OWT)* , (sizes 1,000 – 10,000 l / 35.3 – 353 cu. ft.) for collecting and temporarily storing leaking liquids, waste water storage	
	--
Closed water tank (CWT) , (sizes 500 – 50,000 l / 17.6 – 1,760 cu. ft.) for collecting and temporarily storing leaking liquids, waste water storage	
	--

* C-Storz, please state when ordering

Other Accessories

Hand shower, for shower tents / showers		Decon spray shower, quick-stop function							
	1510001700		1510014700						
Hand shower with PVC pipe, for shower tents / showers		Adapter D-Storz with quick-action coupling, for connecting the decon spray shower to the water supply							
	1510007100		1700009500						
Floor grate for shower basins, 50x50x5 cm (19.5 x 19.5 x 1.9 inch), grey		Coloured tarpaulins for decontamination lines, PVC, 2.5 x 4 m (97.5 x 156 inch)							
	1520039000		<table><tr><td></td><td>1513002701</td></tr><tr><td></td><td>1513000901</td></tr><tr><td></td><td>1513000801</td></tr></table>		1513002701		1513000901		1513000801
	1513002701								
	1513000901								
	1513000801								
For decontamination of injured persons in horizontal position									
	Expandable roller conveyor								
	1520039700								
	Spineboard								
	1520039400								



Oil and water aspirators

For suctioning and pumping out liquids.

Mini permanent aspirator MPA 2.0 MWF

The compact solution for fire services.

- › For vacuuming up and pumping off fluids
- › Also suitable for dry suction mode
- › Very high chemical resistance
- › Modern design

The powerful Mini-Permanent-Aspirator 2.0 WMF was developed specifically for fire services and is perfect for vacuuming up and pumping off fluids. The compact, modern design facilitates space-saving transport in an emergency vehicle. The connection for a fire-service hose guarantees fast, simple pumping-off of fluids up to 11 m. As a dangerous goods specialist with many years of practical experience, Vetter knows exactly which demands are placed on a fire-service vacuum cleaner. That is why the MPA 2.0 MWF container is manufactured from rugged, fibreglass-reinforced plastics which excel with their excellent resistance to chemicals. The device has a separately selectable pump with an integrated, automatic switch-off mechanism at the maximum filling level. The practical, 6-metre suction hose facilitates a large coverage range and the ingenious MPA 2.0 MWF chassis promises ergonomic work along with good handling.



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:

- › Very high chemical resistance of the GRP as compared with other container materials
- › Ergonomic carrying: Chassis-frame thrust bar is height-matched to the carrying handle on the engine head
- › Compact, modern design
- › Integrated switch-off mechanism
- › Chassis-frame design eases transport
- › Can be compactly accommodated in fire service or rescue vehicle
- › Easily removed engine head makes filter replacement and container cleaning easier

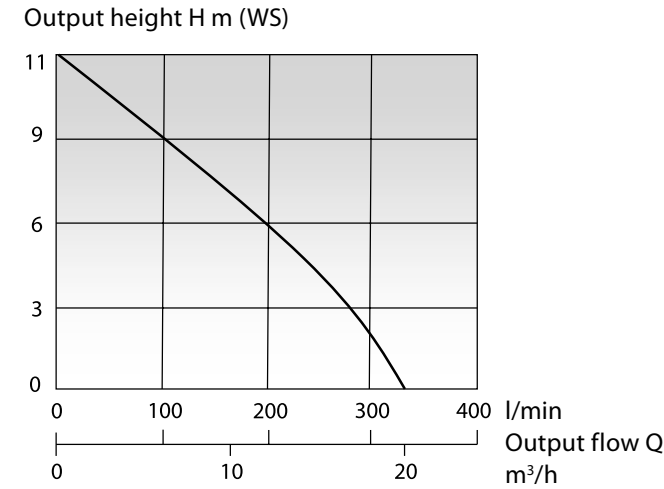


Guaranteed quality:

- › 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 MWF	2220003200
Mains voltage	230 V
Frequency	1~ 50 Hz
Max. performance	2350 W
Power (tot.)	2000 W
Rated power	1200 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 430 x 840 mm
Typical operating weight (without accessory)	28 kg
Max. ambient temperature	+ 40 °C



*Technical changes reserved.

Permanent aspirator (PA)

2210001303



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

Oil water debris aspirator (OWDA)

2200000804



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



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*


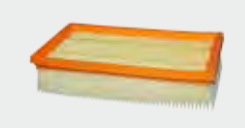



		Oil water debris aspirator (OWDA) 2200000804	Permanent aspirator (PA) 2210001303
Suction power air	litres / min. cu. ft. / min.	3,030 107	3,030 107
Suction power water	litres / min. cu. ft. / min.	160 5.7	160 5.7
Negative pressure	mm WC psi	2,392 3.5	2,392 3.5
Flow rate of pump	litres / min. cu. ft.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

Accessories – Oil and water aspirators

Accessories Set MPA 2.0 MWF 2230024900






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

Optional accessories MPA 2.0 MWF



Shut-off unit, Storz C		Flat Fold Filter (Dust class M), for dry suction mode	
	1700007900		2230024200
Paper filter (5 pieces), for fine dust		Exhaust nozzle for Decon-tub	
	2230024400		1700014701
Safety switch PRCD-S			
	2230025400		

*Technical changes reserved.

Accessories – Oil and water aspirators

Accessories Set PA and OWDA 2230022900	
Suction hose, 6 m, oil resistant, incl. curved connecting pipe	
	--
Suction pipe, stainless steel (2 parts)	
	--
Adapter Suction hose Aspirators, incl. Coupling Storz 38	
	--
Ground nozzle, 370 mm	
	--
Narrow space nozzle	
	--

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
Connector to C 52 / 38 mm	
	2230014500





Airshore

For safe, long-lasting shoring and stabilisation.

Lite Pod

Special applications for special requirements.

The tripod system consists of struts and additional elements and allows one or more people to access confined spaces, for example in shafts, at great heights or in trenches. The system can also be used as the highest point for high angel rescue operations or for dam rescues. For maximum stability, the base plates are secured with a safety chain.

Lite Pod, lightweight

Allows access to confined spaces.*

7200011101

Special light-weight struts with a head attachment and base plates characterise the Lite Pod. As with the regular tripod system, stability is enhanced with a safety chain.

The set includes:

- 3 Struts, adjustable for Lite Pod
- 3 ARL 6" base plates, 150 mm (5.9 inch)
- 1 Head attachment for Lite Pod
- 1 Safety chain with quick action fastener
- Total set weight, approx.: 32 kg (70.5 lbs)

Load capacity at:
0 – 45° = 4 t (4.4 US tons),
>45° = 1.5 t (1.6 US tons)



Optional accessories Lite Pod, lightweight

Set Winch

7200040001

Vehicle stabilisation

Fast protection for both rescuers and injured persons.

Airshore vehicle stabilisation enables you to securely support vehicles – after traffic accidents, for instance. The systems can also be used for large vehicles, such as tanks. They protect injured persons from further injury and ensure safe conditions for rescuers. Vehicles can be supported vertically, horizontally or diagonally and at angles of up to 45°. The systems feature a simple, light-weight, yet robust design and can be used even without the help of special tools.

ART-Lite set

7200000101

The ART-Lite set is a compact system for stabilising standard-sized vehicles. For fast, cost-effective stabilisation.

	1	ART-Lite strut, 410 – 584 mm (16 – 22.8 inch)	2
	2	ART-Lite strut, 711 – 1,040 mm (27.7 – 40.6 inch)	2
	3	Extension, adjustable from 300 – 450 mm (11.7 – 17.6 inch)	2
	4	Extension, adjustable from 450 – 762 mm (17.6 – 29.7 inch)	2
	5	ARL-WA wedge attachment	2
	6	ARL-DH diamond head attachment	2
	7	ARL-Pointv Rhino head attachment	2
	8	ART-RS ratchet strap	4
	9	ART-RSE ratchet strap extension	2
	10	Transport bag, large, blue, 84x34.3x20.3 cm (32.8x13.4x7.9 inch)	1
	11	Transport bag, small, blue, 57x34.3x20.3 cm (22.2x13.4x7.9 inch)	1

Total set weight, approx.: 31.8 kg (70.1 lbs)



Vehicle stabilisation with ART-Lite strut.

QuickStrut

The fast strut system.

Speed is often of the essence when a rescue is necessary after a traffic accident. No problem with the QuickStrut fast shoring system! With a load-bearing capacity of up to one ton per strut, it can be used for crashed vehicles of standard sizes. To avoid confusion or delay during use, all the parts are pre-assembled. All struts are form-fitting and can be set up from either end within one minute. Other comparable systems take much longer to set up. The QuickStrut system is easily positioned diagonally on the vehicle at an angle of 25° to 35°, attached to the body of the car, and tightened with the ratchet belt. That's all there is to it! QuickStrut is based on the construction strut system, is absolutely self-explanatory and can therefore be used by any fire fighter.

QuickStrut set



7200035100

2 QuickStruts, 122 – 200 cm (47.6 – 78 inch), 12.7 kg (28 lbs), load capacity 1,000 kg (2,205 lbs)

2 adjustment wrenches

Transport bag, 25.4 x 27.9 x 137.1 cm (9.9 x 10.9 x 53.5 inch)

Total set weight, approx.: 31.8 kg (70 lbs)

Accessories set QuickStrut



7200035200

2 cluster hooks

2 straps

2 protective sleeves

Accessories bag

Total set weight, approx.: 2.7 kg (6 lbs)



ART Attack

Provides access to a wide variety of spaces.

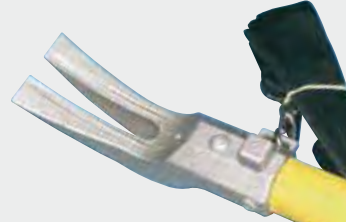
ART Attack was designed as a multifunctional tool for fire services, rescue organisations and the police, enabling fast access to people in need of help. The Black Edition is mainly used in tactical operations by special units. ART Attack is suitable for opening cars and locked rooms. It is also capable of puncturing metal, levering heavy loads, creating openings for fire-extinguishing purposes and breaking through a wide variety of materials.

Ready for any challenge

With the two ART Attack head attachments, you have the right tool for every application*.


Pry wedge

The pry wedge is used to lever loads or draw nails.




Flat wedge

The flat wedge is used to break down house doors or car doors.




Spike

The spike is used to prise open doors and puncture sheet metal or other materials.



ART ATTACK completely




Technical data**					
ART Attack		ART-ATK 24	ART-ATK 30	ART-ATK 36	ART-ATK 42
Length	mm	610	760	915	1,065
	inch	24	30	36	42
Weight	kg	3.6	4.1	4.5	5.0
	lbs	8	9	10	11
Yellow version		7200000300	7200007700	7200005400	7200008200




* Other head attachments are available on request. Just call us on: +49 (0)2252 / 3008-0.
**Technical changes reserved.

Accessories – Airshore strut systems

Lite Pod, lightweight

	Strut , adjustable for Lite Pod, 185 – 300 cm (72.1 – 117 inch)	ARL base plate 6" , 15 x 15 x 4 cm (5.9 x 5.9 x 1.6 inch)
	7200033800	7200035500
	Head attachment for Lite Pod , 20 x 20 x 4.5 cm (7.8 x 7.8 x 1.8 inch)	Safety chain , with quick release fastener, 8 m (26.3 ft.)
	7200033900	7200035600
ART-LPC Art Lite pod kit carrying case		
	7200011200	

ART-Lite set for vehicle stabilisation

	ART-Lite strut , 41 – 58.4 cm (16 – 22.8 inch)	Extension , adjustable 30 – 45 cm (11.7 – 17.6 inch)	ARL-WA wedge attachment , 5 x 11.1 cm (2 x 4.3 inch), 0.36 kg (0.8 lbs)
	7200030700	7200034800	7200030800
	ART-Lite strut , 71.1 – 104 cm (27.7 – 40.6 inch)	Extension , adjustable 45 – 76.2 cm (17.6 – 29.7 inch)	ARL-DH diamond head attachment , 5.1 x 5.1 x 5.7 cm (2 x 2 x 2.2 inch)
	7200034700	7200034900	7200035000
	ARL-Pointv Rhino head attachment , 5.6 x 8.2 x 8.2 cm (2.2 x 3.2 x 3.2 inch)	Transport bag, large , blue, 84 x 34.3 x 20.3 cm (32.8 x 13.4 x 7.9 inch), 1.91 kg (2.6 lbs)	Transport bag, small , blue, 57 x 34.3 x 20.3 cm (22.2 x 13.4 x 7.9 inch), 2.5 kg (5.5 lbs)
	7200030900	7200028101	7200028201
ART-RS Ratchet Strap , 300 cm (118 inch), 0,8 kg (1.76 lbs)		ART-RSE Ratched Strap Extension , 460 cm (181 inch), 0,5 kg (1.1 lbs)	
	7200001000		7200004100

QuickStrut vehicle stabilisation

	QuickStruts , 122 – 200 cm (47.6 – 78 inch), 12.7 kg (28 lbs), load capacity 1,000 kg (2,205 lbs)		Cluster hooks
	7200034000		7200034300
	Adjustment wrench		Straps
	7200034100		7200034400
	Transport bag , 25.4 x 27.9 x 137.1 cm (9.9 x 10.9 x 53.5 inch)		Protective sleeves
	7200034200		7200034500
			Accessory bag
			7200034600

Vetter resistance charts

Transparency for your safety.

Since your products have to withstand thermal as well as chemical requirements, Vetter gives you detailed resistance information.

The data is based on laboratory tests, experience and are influenced by such factors as temperature, intensity, length of exposure etc.

These symbols indicate degrees of resistance:

- + resistant

– not-resistant
- o conditionally resistant

n. d. no details

Temperature resistance limits				
Products	Cold resistance	Cold flexible	Heat resistance, long term	Heat resistance, short term
Connectable Bags C.Tec 10 bar (145 psi) S.Tec 12 Lifting Bags 12 bar (174 psi) Ultra flat bags S. Tec 10 bar Mini lifting bags 8 bar (116 psi) Leak sealing bags Mini leak sealing bags Leak sealing lance Leak sealing bandages Leak drainage bag Vacuum leak drainage bag Flange drain bag Pipe sealing bags and bypass bags FS Universal and compact gully sealing bags				
	– 40 °C	– 20 °C	+ 90 °C	+ 115 °C
Wedge lifting bags and lifting bags 1 bar (14.5 psi) Safety cushions (support frame)	– 40 °C	– 20 °C	+ 70 °C	+ 85 °C
Rescue path 0.5 bar (7.25 psi) Water tanks	– 30 °C	--	+ 70 °C	--
Collection containers and tubs Support frame rubber Support frame PVC Inner basin PVC Inner basin Alcryn	– 40 °C – 30 °C – 25 °C – 25 °C	-- -- -- --	+ 70 °C + 70 °C + 100 °C + 70 °C	-- -- -- --
Pneumatic tents and decontamination showers Support frame rubber Support frame PVC Tent floor PVC Tent cover PVC Tent cover PU	– 40 °C – 30 °C – 25 °C – 40 °C	– 20 °C -- -- --	+ 70 °C + 70 °C + 100 °C --	+ 85 °C -- -- + 50 °C
High-pressure leak sealing system (Sealing hoses)	– 30 °C	--	--	+ 80 °C
Pipe sealing sleeve (Seal)	– 40 °C	--	+ 80 °C	--
Hazardous material tanks	– 40 °C	--	+ 70 °C	--
Rubber hoses	– 40 °C	– 30 °C	+ 90 °C	--
Packing bags and covers Acid protection covers Controller: plastic, aluminium and fitting	– 20 °C	--	+ 50 °C	--

Please notice:

An expanding material reacts to chemicals a lot quicker than when it is in the non-operative condition. This means, the greater the expansion, the lower the chemical resistance. Resistance also depends on material thickness, which is attributable to diffusion. Because of that, our resistance list can only give you points of reference.

We will gladly provide material samples to users wishing to conduct their own chemical resistance tests.

Material list		
Products	Material	Support material
Lifting bags 1 bar (14.5 psi) Wedge lifting bags 1 bar (14.5 psi) (Bottom and top)	CR	Aramide / Polyester
Connectable Bags C.Tec 10 bar (145 psi) S.Tec 12 Lifting Bags 12 bar (174 psi) Ultra flat bags S.Tec 10 bar (145 psi) Mini lifting bags 8 bar (116 psi)	CR	Aramide
Flange drain bag	CR	CR
Leak and mini leak sealing bags Leak sealing bandages Universal and compact gully sealing bags	CR	Nylon cord
Pipe sealing bags and bypass bags FS	CR	Nylon cord / Aramide
Safety cushions (support frame) Collection containers and tubs (support frame) Decontamination showers (support frame)	CR	Polyamid
Pneumatic tents	CR	Polyester
Wedge lifting bags 1 bar (14.5 psi) (Sidewalls) Rescue path 0.5 bar (7.25 psi) NGP Water tanks collection tubs (support frame) Tent support frame Tent floor Tent cover Packing bags and covers Acid protection covers Inner basin collection container Inner basin collection tubs	PVC	Polyester
Inner basin collection container Inner basin collection tubs	Alcryn	Polyester
Leak sealing lance Leak drainage bag Vacuum leak drainage bag	NR	Nylon cord
High-pressure leak sealing system (Sealing hoses)	NBR	NBR
Hazardous material tanks	TPU	Nylon cord
GFRP-products	GFRP	Fiber glass mats
Tent cover	PU	Polyester
Inflation hoses and air supply hoses (outside)	EPDM	Polyester

Resistance charts*

Description of material	CR	PVC	NR	NBR	TPU Hazardous material tanks Outer surface	TPU Hazardous material tanks Inner surface	GFRP	PU	EPDM
Aceton	o	–	+	–	n.d.	n.d.	–	+	–
Acetylene	+	o	+	+	n.d.	n.d.	+	o	–
Alum, watery	+	+	+	n.d.	n.d.	n.d.	+	+	–
Aluminium chloride	+	o	+	+	o	o	+	o	+
Anilene	–	–	n.d.	–	–	–	o	+	n.d.
ASTM–oil 1	o	n.d.	–	+	n.d.	n.d.	+	+	–
Petrol	o	–	–	o	+	+	+	–	n.d.
Benzene	–	–	–	–	–	–	o	–	–
Boric acid	+	+	+	+	o	+	n.d.	o	+
Bromine (moist)	–	–	–	–	n.d.	n.d.	o	o	–
Butyric acid	–	o	–	–	–	–	n.d.	o	n.d.
Chlorine gas (moist)	–	–	–	–	n.d.	n.d.	+	o	n.d.
Chlorine (wet)	o	n.d.	–	–	n.d.	n.d.	+	–	o
Diesel fuel	o	o	–	o	n.d.	n.d.	n.d.	+	–
Iron chloride	+	+	+	+	+	+	+	o	+
Petroleum	o	o	–	+	+	+	+	+	–
Acetic acid	o	o	+	+	–	–	+	–	o
Fatty acid	+	n.d.	o	o	n.d.	n.d.	+	o	–
Formaldehyde	+	n.d.	+	+	n.d.	n.d.	+	o	+
Glucose	+	+	+	o	+	+	+	+	+
Heating oil	+	+	–	o	n.d.	n.d.	+	o	–
Potassium chloride	+	o	+	o	+	+	+	o	+
Calcium chloride	+	o	+	o	o	+	+	o	+
Calcium nitrate	+	n.d.	+	n.d.	n.d.	n.d.	n.d.	+	+
Carbon dioxide	+	+	+	+	n.d.	n.d.	+	+	+
Carbon monooxide	+	–	+	+	n.d.	n.d.	n.d.	+	+
Copper sulphate	+	o	+	+	o	o	+	o	+
Adhesive	+	n.d.	+	+	n.d.	n.d.	+	o	+
Methyl chloride	–	o	–	–	–	–	n.d.	–	o
Sea water	+	o	+	+	–	+	+	+	n.d.
Mineral oil	+	+	–	+	+	+	+	+	–
Sodium carbonate	+	–	+	+	n.d.	n.d.	+	+	–
Ozone	+	n.d.	–	o	+	+	+	o	+
Paraffin	+	n.d.	–	o	+	+	+	+	–
Perchloric acid	o	n.d.	n.d.	o	–	–	n.d.	–	+
Phenol (watery)	–	–	–	–	n.d.	n.d.	o	o	+
Phosphoric acid (concentrated)	–	+	–	+	n.d.	n.d.	n.d.	–	–
Mercury	+	o	+	n.d.	+	+	+	+	+
Nitric acid (fuming)	–	+	–	–	–	–	n.d.	–	–
Sulphur dioxide (dry)	–	o	o	o	n.d.	n.d.	n.d.	o	n.d.
Sulphur acid (50 %)	+	o	–	+	–	o	+	–	–
Nitrogen	+	n.d.	+	o	n.d.	n.d.	n.d.	+	+
Carbon tetrachloride	–	o	–	o	n.d.	n.d.	n.d.	o	–
Animal fat	+	n.d.	–	o	+	+	n.d.	o	+
Toluene	–	–	–	–	–	–	o	–	–

+ resistant o conditionally resistant – not-resistant n. d. no details

*Technical changes reserved.



A part of the IDEX Corporation.

Vetter GmbH is part of the international IDEX Corporation. This corporation invests in successful medium-sized companies in highly specialised markets. All members of the group have two things in common: strong technical orientation and innovative strength.

In addition to Vetter, the IDEX Rescue division includes some of the strongest brands from the field of fire and rescue services such as HURST – JAWS OF LIFE, the American rescue cutter manufacturer, and LUKAS Hydraulik, a long-established company from Germany.

As our customer, you will benefit twice: on the one hand from our international practical knowledge and on the other hand from the intensive transfer of skills and know-how within the corporate group. This know-how contributes directly to the development of sophisticated and high-performing products.



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The all-round manufacturer for specialized emergency pneumatics

Owing to the intensive work for fire services throughout the world, Vetter was able to create an extensive product range which has become indispensable in many fields of rescue. Vetter stands for specialized technical knowledge. Based on this we develop optimally tailored pneumatic solution for different application scenarios.

- **Medical tents**
- **Aircraft lifting bags**
- **Pipe and test sealing bags**
- **Industry products**

All products as well as detailed information and the catalogue for downloading can be found on our internet website under

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