



Vetter: Rescue Products

SAFETY. NO ALTERNATIVE



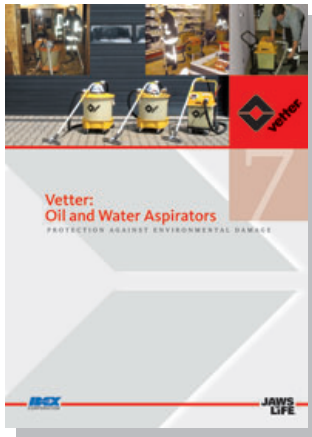
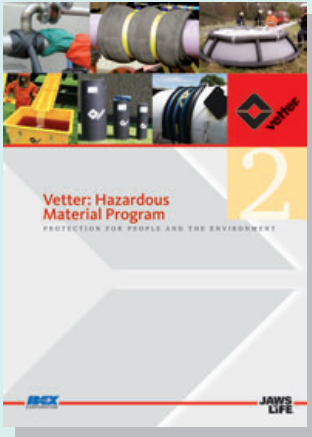
NEW

with **S**.TEC-Bags

Edition 01/2009

IDEX
CORPORATION

JAWS
OF
LIFE



Other Vetter product catalogues being prepared:

Vetter: Industry

Vetter: Mobile Inspection Service

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Ultra Flat Bags

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- System accessories

NEW

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Lifting Bags
1.0 bar (14.5 psi)

Rescue Path 0.5 bar (7.25 psi) NG

- Rescue Path
- System accessories

Rescue Path
0.5 bar (7.25 psi) NG

Safety Cushions SP 16 / SP 25

- Safety Cushions
- System accessories

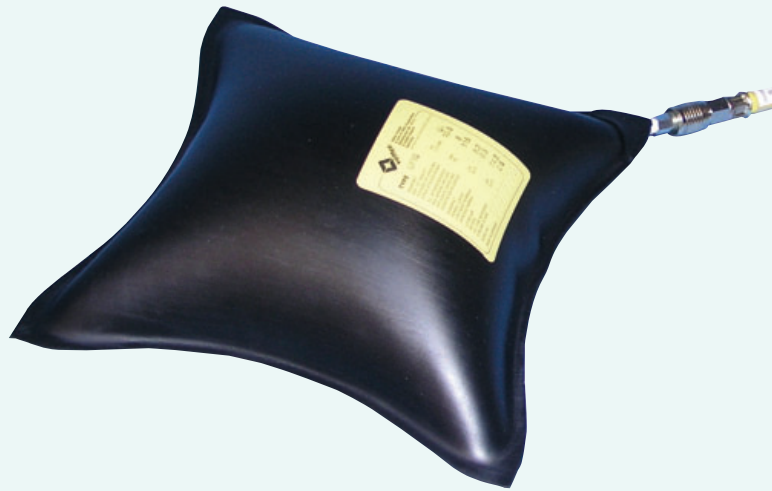
Safety Cushions
SP 16 / SP 25

Resistance charts and material charts

Resistance charts
and material charts

Vetter Ultra Flat Bags

NEW



Ultra Flat Bags are especially characterised by their minimum insertion size of only 1.2 cm (0.5 inch) and are therefore the initial helpers at the application site. They develop their power in the narrowest of spaces and are therefore able to make room for other rescue equipment. The low air requirement and extremely simple handling enable Ultra Flat Bags to be used as quick as a flash thus reducing the work time needed for rescue services.

The usual accessories (8.0 bar/116 psi) or the new STREAMLINE technology controller can be used in order to inflate Ultra Flat Bags.

This control unit, which is matched to EN 13731 enables millimetre accuracy in the control of Ultra Flat Bags and simplifies the work of rescue staff in the dark by the use of reflective labels and luminescent manometer.



Advantages/Safety of Ultra Flat Bags

- Unrivalled low insertion size of only 1.2 cm (0.5 inch)
- Makes room for other rescue equipment
- 3 year guarantee on material and manufacturing defects
- Antistatic and self-extinguishing features
- Maintenance-free and long-lasting
- Easy handling
- Rapid operational readiness
- Inflation with air or water is possible
- Bag description = maximum lifting power
- Safety factor ratio of more than 4:1

Advantages/Safety of the controller

- Dead-man switching
- Integrated return valve
- Luminescent manometer
- Reflective labels
- Lift power load path diagram on the controller
- Control which is accurate to the last millimetre
- Carrying strap and handles
- Dual locking safety couplings



Mini-Lifting Bag, insertion height 2.5 cm. (1 inch)



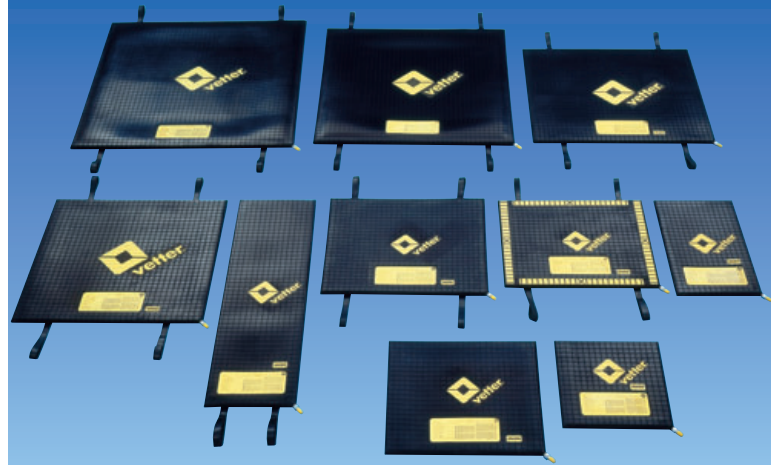
Ultra Flat Bag, insertion height only 1.2 cm. (0.5 inch)

Technical Data Ultra Flat Bags

	Unit	Uf 1	Uf 3	Uf 6	Uf 10
Art.-No.		1314018800	1314018700	1314018600	1314020700
Lifting power	to	1.0	3.29	6.36	9.60
	US tons	1.1	3.63	7.01	10.58
Lifting height, max.	cm	7.5	12.0	16.5	20.3
	inch	3.0	4.7	6.5	8.0
Insertion height (uninflated)	cm	1.2	1.2	1.2	1.2
	inch	0.5	0.5	0.5	0.5
Size	cm	14 x 13	25.5 x 20	29.5 x 29.5	37 x 37
	inch	5.5 x 5.1	10.0 x 7.9	11.6 x 11.6	15 x 15
Working pressure	bar	8	8	8	8
	psi	116	116	116	116
Test pressure	bar	12	12	12	12
	psi	174	174	174	174
Bursting pressure, min.	bar	32.0	32.0	32.0	32.0
	psi	464.0	464.0	464.0	464.0
Air requirement at 8.0 bar (116 psi)	l	2.8	15.9	37.8	74.2
	cu.ft.	0.1	0.8	1.3	2.6
Nominal content	l	0.30	1.80	4.20	8.30
	cu.ft.	0.01	0.07	0.15	0.30
Inflation time, approx.	sec.	0.50	1.00	1.40	5.00
Weight, approx.	kg	0.26	0.74	1.30	1.70
	lbs	0.58	1.64	2.87	3.75

Technical changes reserved!

Vetter Mini-Lifting Bags 8.0 bar (116 psi)



The distinguishing feature of Vetter Mini Lifting Bags 8.0 bar (116 psi) is the noiseless, jolt-free, and smooth lifting of the heaviest loads. They lift, push, press, prise and split, even on sloping surfaces. The surface profile improves grip on slippery ground such as grass, sand etc.

They are produced in two versions. Both versions have a multi-layer construction which covers each side of the

bag. This is either steelcord or aramide reinforcement.

Both versions have antistatic and self-extinguishing characteristics and are therefore permitted for the mining industry.

Selection of the Mini Lifting Bag is dependent on the weight of the load to be lifted as well as the height.

This means that the Mini Lifting Bag develops the greatest lift power at the beginning of the lift and the greatest possible lift height in the unloaded state. The result is that the lift height becomes shorter with increased load. This can be seen in the "Force vs. Stroke diagram".

These diagrams can be obtained for each individual bag on request.

Technical Data Super-Mini Lifting Bags 8.0 bar (116 psi), aramide

	Unit	V1	V3	V5	V6
Art.-No.		1314009300	1314009500	1314018200	1314009600
Lifting power	to	1.0	3.29	5.70	6.36
	US tons	1.1	3.63	6.29	7.01
Lifting height, max.	cm	7.5	12.0	14.5	16.5
	inch	3.0	4.7	5.7	6.5
Insertion height (uninflated)	cm	2.5	2.5	2.5	2.5
	inch	1.0	1.0	1.0	1.0
Size	cm	14.0 x 13.0	25.5 x 20.0	28.0 x 28.0	29.5 x 29.5
	inch	5.5 x 5.1	10.0 x 7.9	11.0 x 11.0	11.6 x 11.6
Working pressure	bar	8	8	8	8
	psi	116	116	116	116
Test pressure	bar	12	12	12	12
	psi	174	174	174	174
Bursting pressure, min.	bar	32.0	32.0	32.0	32.0
	psi	464.0	464.0	464.0	464.0
Air requirement at 8.0 bar (116 psi)	l	2.7	15.8	28.4	39.6
	cu. ft.	0.1	0.6	1.0	1.4
Nominal content	l	0.30	1.75	3.16	4.40
	cu. ft.	0.01	0.06	0.11	0.16
Inflation time, approx.	sec.	0.50	1.00	1.30	1.40
Weight, approx.	kg	0.44	1.10	1.70	1.95
	lbs	0.97	2.43	3.75	4.30

Technical changes reserved!

Technical Data Mini Lifting Bags 8.0 bar (116 psi), steelcord

	Unit	V10	V12	V18	V20	V24	V24L	V31	V35L	V40	V54	V68
Art.-No.		1310000600	1310001000	1310001100	1310002100	1310001200	1310001300	1310001400	1310008200	1310001500	1310001600	1310001700
Lifting power	to	9.60	12.00	17.70	19.40	24.00	24.00	31.40	35.8	39.60	54.40	67.70
	US tons	10.58	13.23	19.51	21.38	26.46	26.46	34.61	39.49	43.65	59.97	74.63
Lifting height, max.	cm	20.3	20.0	27.0	28.0	30.6	20.1	37.0	31.0	40.2	47.8	52.0
	inch	8.0	7.9	10.6	11.0	12.0	7.9	14.6	12.2	15.8	18.8	20.5
Insertion height (uninflated)	cm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	2.8
	inch	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
Size	cm	37 x 37	32 x 52	47 x 52	48 x 58	52 x 62	31 x 102	65 x 69	43 x 115	78 x 69	86 x 86	95 x 95
	inch	15 x 15	13 x 20	19 x 20	19 x 23	20 x 24	12 x 40	26 x 27	17 x 45	31 x 27	34 x 34	37 x 37
Working pressure	bar	8	8	8	8	8	8	8	8	8	8	8
	psi	116	116	116	116	116	116	116	116	116	116	116
Test pressure	bar	16	16	16	16	16	16	16	16	16	16	16
	psi	232	232	232	232	232	232	232	232	232	232	232
Bursting pressure, min.	bar	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
	psi	464	464	464	464	464	464	464	464	464	464	464
Air requirement at 8.0 bar (116 psi)	l	82.8	96.3	195.3	224.1	296.1	211.5	517.5	349.4	675.0	1.1178	1.457.1
	cu. ft.	2.9	3.4	6.9	7.9	10.4	7.5	18.0	12.3	23.6	39.5	51.4
Nominal content	l	9.2	10.7	21.7	24.9	32.9	23.5	57.5	38.8	75.0	124.2	161.9
	cu. ft.	0.3	0.4	0.7	0.9	1.2	0.8	2.0	1.4	2.6	4.3	5.7
Inflation time, approx.	sec.	5	6	11	14	18	13	31	35	41	68	88
Weight, approx.	kg	4.3	5.1	7.5	8.7	9.8	9.7	13.6	15.8	16.3	27.3	33.8
	lbs	9.5	11.3	16.5	19.2	21.6	21.4	30.0	34.8	35.9	60.2	74.5

Technical changes reserved!

Mini-Lifting Bags
8.0 bar (116 psi)

Technical Data Mini Lifting Bags 8.0 bar (116 psi), aramide

	Unit	V10	V12	V18	V20	V24	V24L	V31	V35L	V40	V54	V68
Art.-No.		1314002200	1314002400	1314002500	1314003400	1314002600	1314002700	1314002800	1314018300	1314002900	1314003000	1314003100
Lifting power	to	9.60	12.00	17.70	19.40	24.00	24.00	31.40	35.8	39.60	54.40	67.70
	US tons	10.58	13.23	19.51	21.38	26.46	26.46	34.61	39.49	43.65	59.97	74.63
Lifting height, max.	cm	20.3	20.0	27.0	28.0	30.6	20.1	37.0	31.0	40.2	47.8	52.0
	inch	8.0	7.9	10.6	11.0	12.0	7.9	14.6	12.2	15.8	18.8	20.5
Insertion height (uninflated)	cm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.8	2.8
	inch	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
Size	cm	37 x 37	32 x 52	47 x 52	48 x 58	52 x 62	31 x 102	65 x 69	43 x 115	78 x 69	86 x 86	95 x 95
	inch	15 x 15	13 x 20	19 x 20	19 x 23	20 x 24	12 x 40	26 x 27	17 x 45	31 x 27	34 x 34	37 x 37
Working pressure	bar	8	8	8	8	8	8	8	8	8	8	8
	psi	116	116	116	116	116	116	116	116	116	116	116
Test pressure	bar	12	12	12	12	12	12	12	12	12	12	12
	psi	174	174	174	174	174	174	174	174	174	174	174
Bursting pressure, min.	bar	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
	psi	464	464	464	464	464	464	464	464	464	464	464
Air requirement at 8 bar (116 psi)	l	82.8	96.3	195.3	224.1	296.1	211.5	517.5	349.4	675.0	1.1178	1.457.1
	cu. ft.	2.9	3.4	6.9	7.9	10.4	7.5	18.0	12.3	23.6	39.5	51.4
Nominal content	l	9.2	10.7	21.7	24.9	32.9	23.5	57.5	38.8	75.0	124.2	161.9
	cu. ft.	0.3	0.4	0.7	0.9	1.2	0.8	2.0	1.4	2.6	4.3	5.7
Inflation time, approx.	sec.	5	6	11	14	18	13	31	35	41	68	88
Weight, approx.	kg	3.0	3.6	5.3	5.8	6.7	6.3	9.5	10.1	11.4	16.2	19.5
	lbs	6.6	7.9	11.7	12.8	14.8	13.9	21.0	22.3	25.1	35.7	43.0

Technical changes reserved!

For your safety. Vetter accessories for system 8.0 bar (116 psi)

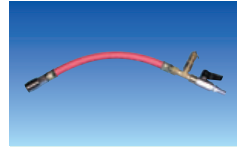
Inflation hoses 8.0 bar (116 psi)



Inflation hoses 8.0 bar, 5 m (116 psi, 16.4 ft.)
 Art.-No. 0800000901 (yellow)
 Art.-No. 0800001301 (red) Art.-No. 0800000601 (blue)
 Art.-No. 0800000701 (grey) Art.-No. 0800000801 (green)

Inflation hoses 8.0 bar, 10 m (116 psi, 32 ft.)
 Art.-No. 0800007401 (yellow)
 Art.-No. 0800007601 (red) Art.-No. 0800007801 (blue)
 Art.-No. 0800007901 (grey) Art.-No. 0800007501 (green)

Shut-off unit/Inline relief hoses



Art.-No. 0800005800
 Shut-off unit
 8.0 bar (116 psi)

Shut-off unit 8.0 bar, 0.3 m (116 psi, 1 ft.)
 Art.-No. 0800007201 (red)
 Art.-No. 0800007301 (yellow)

Controllers 8.0 bar (116 psi)



Art.-No. 0800001600
 Dual deadman controller
 8.0 bar (116 psi)

Art.-No. 0800000401
 Single deadman controller
 8.0 bar (116 psi),
 aluminium style

Art.-No. 0800000201
 Dual deadman controller
 8.0 bar (116 psi),
 aluminium style

Art.-No. 0800002001
 Single fitting controller,*
 8.0 bar (116 psi)

Art.-No. 0800002401
 Dual fitting controller,*
 8.0 bar (116 psi)

* NOTE: The fitting controller do not match with the EN 13731.

Please choose your additional accessories according to the air source

Compressed air cylinder

Compressor

Brake line of a truck

Tyre inflation system

Tyre



Art.-No. 1600000200
 Pressure regulator
 200/300 bar
 (3.000/4.500 psi)

US-Version: 1600005301
 FR-Version: 1600004700

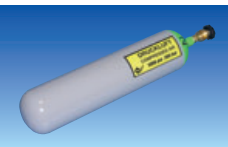


Art.-No. 1600013401
 Air-supply hose
 10 m, green (32 ft.)

or alternative



Art.-No. 1600013601
 Air-supply hose
 10 m, green (32 ft.)
 with shut-off unit



Compressed air cylinders
 Art.-No. 1600010100
 1 l/200 bar
 (0.04 cu.ft./3.000 psi)
 Art.-No. 1600010800
 6 l/300 bar
 (0.2 cu.ft./4.500 psi)
 Art.-No. 1600019900
 9 l/300 bar
 (0.3 cu.ft./4.500 psi)
 Art.-No. 1600010500
 10 l/200 bar
 (0.35 cu.ft./3.000 psi)



Art.-No. 1600011600
 Safety and carrier rack for
 compressed air cylinder
 6 l/300 bar
 (0.2 cu.ft./4.500 psi)
Two cylinder rack



Art.-No. 1600011600
 Safety and carrier rack for
 compressed air cylinder
 6 l/300 bar
 (0.2 cu.ft./4.500 psi)
 (you have to use this
 article two times for the
 four cylinder rack)
 Art.-No. 1600011800
 Trolley for safety
 and carrier rack
Four cylinder rack

Supplied
 without cylinders.



Art.-No. 1600012000
 Construction-site
 compressor adaptor



Art.-No. 1600008200
 Adaptor for portable
 compressor



Art.-No. 1600007500
 Truck brake connector,
 2 way



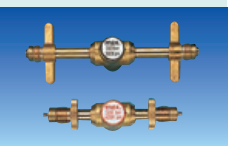
Art.-No. 1600012600
 Sealing-off cap



Art.-No. 1600007800
 Tyre inflation system
 adaptor



Art.-No. 1600012900
 Tyre valve connector



Art.-No. 1600009100
 Dual connector
 300 bar (4.500 psi)
 Art.-No. 1600008400
 Dual connector
 200 bar (3.000 psi)



Art.-No. 1600012500
 Set universal connectors

8.0 bar (116 psi)



Shut-off unit 8.0 bar, 5 m (116 psi, 16.4 ft.)
Art.-No. 0800008201 (yellow)
Art.-No. 0800008401 (red)
Art.-No. 0800008601 (grey)
Art.-No. 0800008801 (blue)
Art.-No. 0800009001 (green)



Shut-off unit 8.0 bar, 10 m (116 psi, 32 ft.)
Art.-No. 0800008301 (yellow)
Art.-No. 0800008501 (red)
Art.-No. 0800008701 (grey)
Art.-No. 0800008901 (blue)
Art.-No. 0800009101 (green)

Inflation and safety hose 8.0 bar (116 psi)

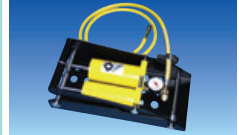


Art.-No. 0800008101
Inflation and safety hose 8.0 bar, 10 m, yellow (116 psi, 32 ft.)

Foot pumps with safety-valve and pressure gauge



Art.-No. 0800009900
Foot pump with safety-valve 8.0 bar (116 psi) and pressure gauge, 420 cm/stroke (25.6 cu.in.)

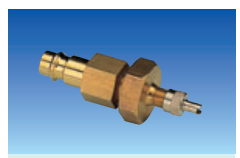


Art.-No. 0800012400
Foot pump with safety-valve 8.0 bar (116 psi) and pressure gauge, 800 cm/stroke (48.8 cu.in.)

Commercial hand or foot pump | Fixed compressed air installation | Hand or foot pump



Art.-No. 1600008700
Hand pump. 520 ccm/stroke (31.7 cu.in.)
Art.-No. 1600009400
Foot pump. 420 ccm/stroke (25.6 cu.in.)



Art.-No. 1600008000
Truck tyre valve



Art.-No. 1600008200
Compressed-air mains connector

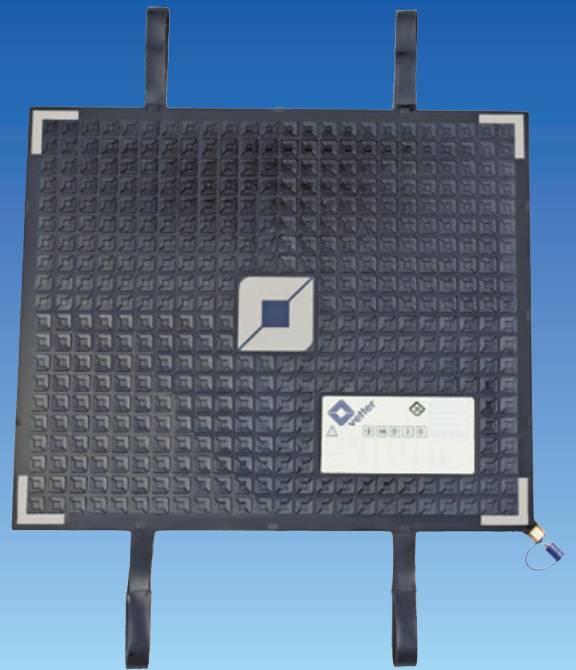


Art.-No. 1600014500
Pressure regulator max. 20 bar (290 psi)

If the outgoing pressure of the fixed compressed air installation is higher than the permitted filling pressure of the controller, you have to replace the compressed-air mains connector with this pressure regulator.

Vetter S.Tec-Bags 10.0 bar (145 psi)

NEW



First and foremost the S.Tec generation of mini lifting bags stands for:

- 25% more power by using innovative technology compared to 8.0 bar (116 psi) mini lifting bags
- Modern sophisticated design
- Many details practically oriented

Compared to the 8.0 bar (116 psi) mini lifting bag you achieve a 25% increase in power with the same bag size and a maximum insertion height of only 25 mm (1 inch) at an operating pressure of 10.0 bar (145 psi). Innovative technology coupled with field-proven material (CR/Aramid) do not only stand for an increase in lifting power but also higher quality.

The S.Tec series also have anti-static and self-extinguishing features.

Seen from the outside, the S.Tec series has a modern surface structure, a contemporary type label and many more interesting details.

S.Tec bags are fitted with controllers and inflation hoses which correspond to the pressure stage of the bag.

In order to simplify the change from 8.0 (116 psi) bar to S.Tec 10.0 bar (145 psi), we now offer you the possibility to profit from the advantages of the S.Tec series in which with every order for a new S.Tec bag you receive an adapter 10.0 bar/145 psi to 8.0 bar/116 psi.

This will enable you to use the existing 8.0 bar (116 psi) accessories up to the point when a final system change is made.

Today you already profit from:

- Modern sophisticated design
- The many practical innovations
- The chance of obtaining the basis for the system change to Vetter S.Tec 10.0 bar (145 psi)

Advantages

- 25% increase in power with the same bag size and same weight
- Common insertion height of 2.5 cm (1 inch) for all bag sizes
- New interlocking surface profile
- Rounded-off edge profile to enable easier insertion under the load
- Central and corner marking
- Contemporary type label
- Up to three uniquely raised position aids on each side of the bag
- Technical data printed in metric units as well as imperial units

Safety

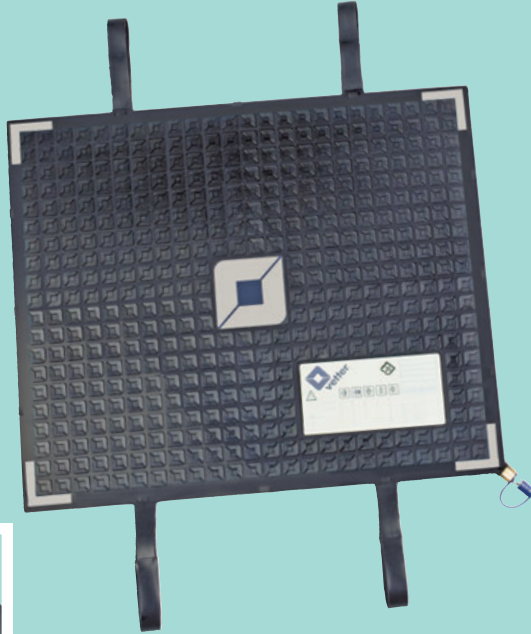
- Clear safety information in the form of pictograms
- Safety factor ratio of more than 4:1
- Loss-free valve protection cap
- A serial number which is embossed
- Date of works inspection
- Test tag for 4 further pressure tests
- Contemporary type label
- **EN 13731-conformity has been confirmed by independent institute**
- Company certified under ISO 9001:2000
- 2 year guarantee



- Centre marking
- Optimized interlocking surface structure

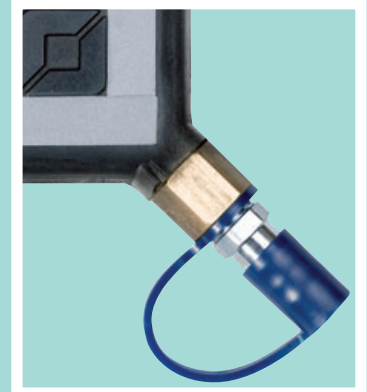


- Contemporary type label
- Safety information in the form of pictograms
- Technical data in metric and imperial units
- Embossed serial number
- Date of the works test
- Fields for test stamp



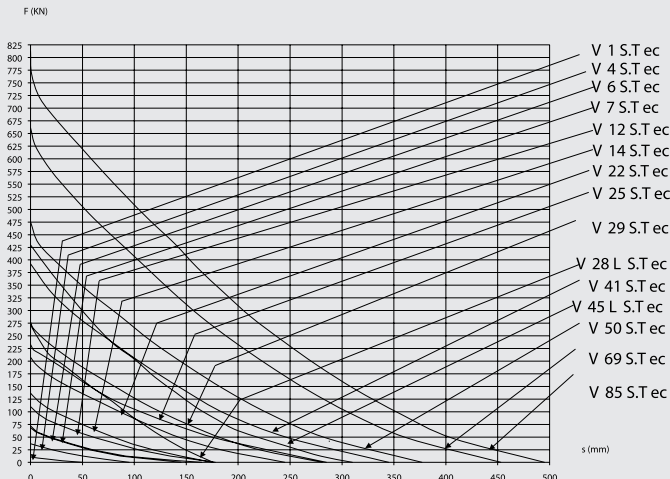
- Up to three raised position aids on each side
- Rounded off edge profile simplifying insertion

- New safety 10.0 bar (145 psi) nipple with loss-proof valve protection cap



S.Tec-Bags
10.0 bar (145 psi)

Force vs. Stroke V 1 - V 85 S.Tec



The selection of the S.Tec-Bag is dependent on the weight of the load to be lifted as well as the lift path.

This means that the S.Tec-Bag develops the greatest lift power at the beginning of the lift path and obtains the greatest possible lift height in the unloaded condition. As a result, the lift path decreases with increasing load. The load path diagram shown here illustrates this process. Load path diagrams for individual bags can be obtained on request.

Technical Data S.Tec-Bags 10.0 bar (145 psi), aramide

ARAMIDE	Unit	V 1 S.Tec	V 4 S.Tec	V 6 S.Tec	V 7 S.Tec	V 12 S.Tec	V 14 S.Tec	V 22 S.Tec	V 25 S.Tec
Art.-No.		1315000100	1315000200	1315000300	1315000400	1315000500	1315000600	1315000700	1315000800
Lifting power	to	1.1	3.8	6.3	7.0	11.6	14.2	21.6	24.8
	US tons	1.3	4.2	6.9	7.7	12.8	15.7	23.8	27.3
Lifting height, max.	cm	7.5	12.0	14.5	16.5	20.3	20.0	27.0	28.0
	inch	3.0	4.7	5.7	6.5	8.0	7.9	10.6	11.0
Insertion height (uninflated)	cm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	inch	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Size	cm	14 x 13	25.5 x 20	28 x 28	29.5 x 29.5	37 x 37	32 x 52	47 x 52	48 x 58
	inch	5.5 x 5.1	10 x 7.9	11 x 11	11.6 x 11.6	15 x 15	13 x 20	19 x 20	19 x 23
Working pressure	bar	10	10	10	10	10	10	10	10
	psi	145	145	145	145	145	145	145	145
Test pressure	bar	15	15	15	15	15	15	15	15
	psi	218	218	218	218	218	218	218	218
Bursting pressure, min.	bar	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
	psi	580.0	580.0	580.0	580.0	580.0	580.0	580.0	580.0
Air requirement at 10.0 bar (145 psi)	l	3.3	19.3	34.8	48.4	101.2	117.7	238.7	273.9
	cu. ft.	0.1	0.7	1.2	1.7	3.6	4.2	8.4	9.7
Nominal content	l	0.30	1.75	3.16	4.40	9.20	10.70	21.70	24.90
	cu. ft.	0.01	0.06	0.11	0.16	0.3	0.4	0.7	0.9
Inflation time, approx.	sec.	0.5	1.0	1.3	1.4	5.0	6.0	11.0	14.0
Weight, approx.	kg	0.50	1.21	1.87	2.15	3.30	3.96	5.80	6.38
	lbs	1.10	2.67	4.12	4.74	7.28	8.73	12.79	14.07

Technical changes reserved!

Technical Data S.Tec-Bags 10.0 bar (145 psi), aramide

ARAMIDE	Unit	V 29 S.Tec	V 28 I.S.Tec	V 41 S.Tec	V 45 I.S.Tec	V 50 S.Tec	V 69 S.Tec	V 85 S.Tec
Art.-No.		1315000900	1315001000	1315001100	1315001200	1315001300	1315001400	1315001500
Lifting power	to	28.9	27.7	40.9	44.8	49.5	68.9	84.6
	US tons	31.9	30.5	45.1	49.4	54.6	76.0	93.3
Lifting height, max.	cm	30.6	20.1	37.0	31.0	40.2	47.8	52.0
	inch	12.0	7.9	14.6	12.2	15.8	18.8	20.5
Insertion height (uninflated)	cm	2.5	2.5	2.5	2.5	2.5	2.5	2.5
	inch	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Size	cm	52 x 62	31 x 102	65 x 69	43 x 115	78 x 69	86 x 86	95 x 95
	inch	20 x 24	12 x 40	26 x 27	17 x 45	31 x 27	34 x 34	37 x 37
Working pressure	bar	10	10	10	10	10	10	10
	psi	145	145	145	145	145	145	145
Test pressure	bar	15	15	15	15	15	15	15
	psi	218	218	218	218	218	218	218
Bursting pressure, min.	bar	40.0	40.0	40.0	40.0	40.0	40.0	40.0
	psi	580.0	580.0	580.0	580.0	580.0	580.0	580.0
Air requirement at 10.0 bar (145 psi)	l	361.9	258.5	632.5	426.8	825.0	1.366.2	1.780.9
	cu. ft.	12.8	9.1	22.3	15.1	29.1	48.2	62.9
Nominal content	l	32.90	23.50	57.50	38.8	75.00	124.20	161.90
	cu. ft.	1.2	0.8	2.0	1.4	2.6	4.3	5.7
Inflation time, approx.	sec.	18.0	13.0	31.0	35.0	41.0	68.0	88.0
Weight, approx.	kg	7.37	6.93	10.45	11.11	12.54	19.44	23.4
	lbs	16.25	15.28	23.04	24.50	27.65	42.87	51.6

Technical changes reserved!



System 395 KN

S.Tec-Bags
10.0 bar (145 psi)

Sets for Super Mini Lifting Bags S.Tec 10.0 bar (145 psi)

Art.-No.	Description	Art.-No. 1315001700 Set S.Tec-Bags 10.0 bar (145 psi) for compressed air inflation		Art.-No. 1315003000 Set S.Tec-Bags 10.0 bar (145 psi) for compressed air inflation, USA	
1315000100	V 1 S.Tec	1	1		
1315000200	V 4 S.Tec	1	1		
1315000400	V 7 S.Tec	1	1		
1000001800	Inflation hose 10.0 bar, 5 m, yellow (145 psi, 16.4 ft.)	1	1		
1000006000	Inflation distributor, dual, with inflation hoses each 1 m (3 ft.) long	1	1		
1000006100	Inflation and safety fitting for S.Tec bags	1			
1000006200	Inflation and safety fitting for S.Tec bags USA			1	
1600010100	Compressed air bottle 1 l/200 bar (0.04 cu.ft./2,900 psi)	1			
1000006900	Transporting case S.Tec bags for compressed air inflation	1	1		

Sets for S.Tec-Bags 10.0 bar (145 psi), aramide

Art.-No.	Description	Art.-No. 1315001800 System 395 KN S.Tec 10.0 bar (145 psi)		Art.-No. 1315001900 System 888 KN S.Tec 10.0 bar (145 psi)		Art.-No. 1315002000 System 2927 KN S.Tec 10.0 bar (145 psi)	
1600000200	Pressure regulator 200/300 bar* (3,000/4,500 psi)	1	1	1	1		
1000004500	Dual controller 10.0 bar (145 psi), dead-man switching, plastic	1	1	1	1		
1000001800	Inflation hose 10.0 bar, 5 m, yellow (145 psi/16.4 ft)	1	1	1	1		
1000002100	Inflation hose 10.0 bar, 5 m, red (145 psi/16.4 ft)	1	1	1	1		
1315000300	V 6 S.Tec	1	1	1	1		
1315000500	V 12 S.Tec	1	1	1	1		
1315000700	V 22 S.Tec	1	2	2	2		
1315001000	V 28 L S.Tec		1	1	1		
1315000900	V 29 S.Tec					1	
1315001100	V 41 S.Tec					1	
1315001300	V 50 S.Tec					1	
1315001500	V 85 S.Tec					1	

* Pressure regulator US version 1600005301 Pressure regulator FR version 1600004700

For your safety. Vetter accessories for system 10.0 bar (145 psi)

Inflation hoses 10.0 bar (145 psi)



Inflation hoses 10.0 bar, 5 m (145 psi, 16.4 ft.)
 Art.-No. 1000001800 (yellow) Art.-No. 1000002100 (red)
 Art.-No. 1000001900 (blue) Art.-No. 1000002200 (grey)
 Art.-No. 1000002000 (green)



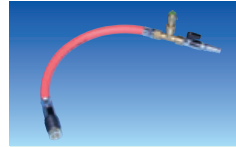
Inflation hoses 10.0 bar, 10 m (145 psi, 32 ft.)
 Art.-No. 1000002300 (yellow) Art.-No. 1000002600 (red)
 Art.-No. 1000002400 (blue) Art.-No. 1000002700 (grey)
 Art.-No. 1000002500 (green)



Shut-off unit/Inline relief hoses



Art.-Nr. 1000002800
 Shut-off unit
 10.0 bar (145 psi)



Shut-off unit 10.0 bar, 0.3 m (145 psi, 1 ft.)
 Art.-Nr. 1000002900 (red)
 Art.-Nr. 1000003000 (yellow)

Controllers 10.0 bar (145 psi)



Art.-No. 1000004500
 Dual deadman controller
 10.0 bar (145 psi)



Art.-No. 1000004600
 Single deadman controller
 10.0 bar (145 psi),
 aluminium style



Art.-No. 1000004700
 Dual deadman controller
 10.0 bar (145 psi)
 aluminium style

Please choose your additional accessories according to the air source

Compressed air cylinder



Art.-No. 1600000200
 Pressure regulator
 200/300 bar
 (3.000/4.500 psi)

US-Version: 1600005301
 FR-Version: 1600004700

Compressor



Art.-No. 1600013401
 Air-supply hose
 10 m, green (32 ft.)

Brake line of a truck

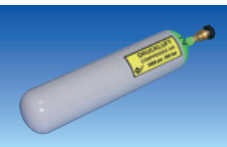
Tyre inflation system

Tyre



Art.-No. 1600013601
 Air-supply hose
 10 m, green (32 ft.)
 with shut-off unit

or alternative



Compressed air cylinders
 Art.-No. 1600010100
 1 l/200 bar
 (0.04 cu.ft./3.000 psi)
 Art.-No. 1600010800
 6 l/300 bar
 (0.2 cu.ft./4.500 psi)
 Art.-No. 1600019900
 9 l/300 bar
 (0.3 cu.ft./4.500 psi)
 Art.-No. 1600010500
 10 l/200 bar
 (0.35 cu.ft./3.000 psi)



Art.-No. 1600011600
 Safety and carrier rack for
 compressed air cylinder
 6 l/300 bar
 (0.2 cu.ft./4.500 psi)
Two cylinder rack



Art.-No. 1600011600
 Safety and carrier rack for
 compressed air cylinder
 6 l/300 bar
 (0.2 cu.ft./4.500 psi)
 (you have to use this
 article two times for the
 four cylinder rack)
 Art.-No. 1600011800
 Trolley for safety
 and carrier rack
Four cylinder rack

Supplied
 without cylinders.



Art.-No. 1600012000
 Construction-site
 compressor adaptor



Art.-No. 1600008200
 Adaptor for portable
 compressor



Art.-No. 1600007500
 Truck brake connector,
 2 way



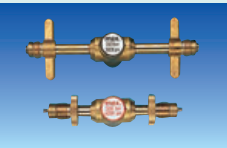
Art.-No. 1600012600
 Sealing-off cap



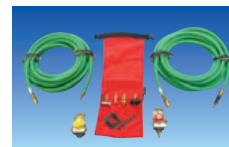
Art.-No. 1600007800
 Tyre inflation system
 adaptor



Art.-No. 1600012900
 Tyre valve connector



Art.-No. 1600009100
 Dual connector
 300 bar (4.500 psi)
 Art.-No. 1600008400
 Dual connector
 200 bar (3.000 psi)



Art.-No. 1600012500
 Set universal connectors

Vetter Lifting Bags 1.0 bar (14.5 psi)



Due to their smooth power and their extremely high adaptability to every type of unevenness, Vetter lifting bags enable careful recovery of vehicles which have rolled over.

Lifting and elevation of thin-walled components as well as the rescue of trapped persons are within the versatile application field of the lifting bags. For over 40 years they have been reliable aids to fire and rescue services.

Due to the application of special tape lapping on the inside, bulging of the highly resistive rubber polyamide structure, produced for the bottom and top plates, is avoided thus achieving increased lateral stability at the same time.

The cavities on the top and bottom plates increase slip resistance on soft, marshy or snowy ground.

With correct treatment, which includes carrying out the specified inspections and storage according to DIN 7716, lifting bags will have an extremely long life cycle.



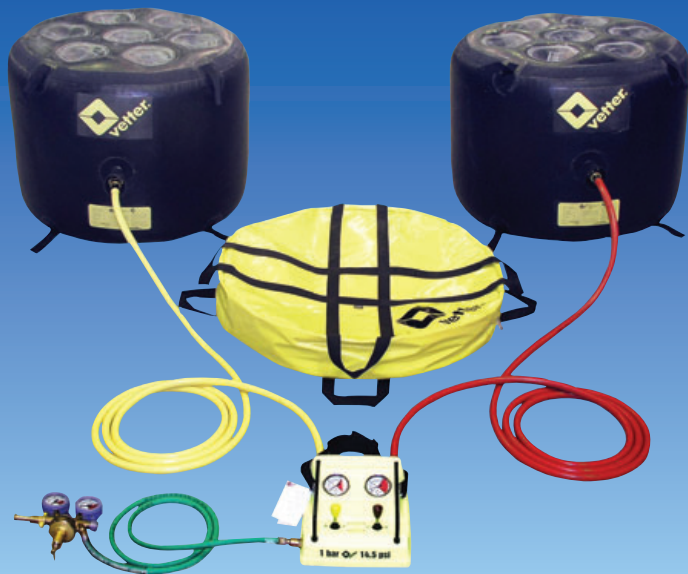
The tape lapping inside the bag

Advantages

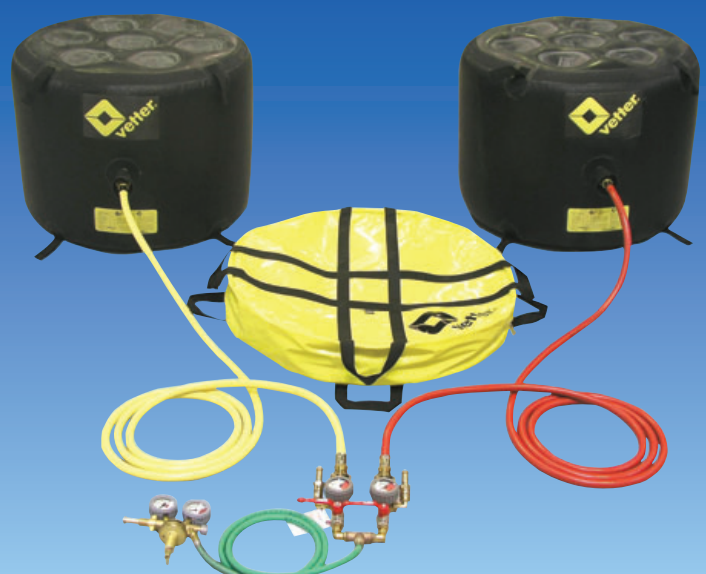
- Low pressure point loading of maximum 1000 g/cm²
- Constant lifting power over the complete lift
- High degree of flexibility, they grip a load around the edges, then lift and press simultaneously
- Can be easily repaired when damaged
- Operating pressure of 0.1 bar to 1.0 bar, regulated by a controller (1.45 psi to 14.5 psi)
- Side walls made of high quality aramide
- Life cycle with average use and correct storage: 15 - 20 years
- Patented vulcanized valve connections optimize air supply even in difficult applications.

Safety

- Quality management according to DIN ISO 9001:2000
- Continuous product monitoring by the German testing authorities (TÜV Rheinland)
- Bursting pressure is 3 to 4 times the operating pressure
- The testing pressure is 1.5 times the operating pressure
- Tear strengths according to DIN 53354 and ongoing tear strengths according to DIN 53363
- Rubber gripping properties according to DIN 53357
- Piercing strength according to DIN 53373, 6 mm objects, 110 mm tin can, 2740 N



Set up variation: deadman controller



Set up variation: fitting controller

As a standard the lifting bag sets are supplied in two variations, one with a deadman controller and the other one with a fitting controller. The control lever of the deadman controller automatically springs back to the zero position when released. The air supply from the

fitting controller is manually regulated by a ball valve. Using the accessories shown on the page “System accessories 1.0 bar (14.5 psi)” it is possible to compile an individual set.

NOTE: The fitting controller do not match with the EN 13731.

Sets Lifting Bags 1.0 bar (14.5 psi), consisting of:

Art.-No.	Description	Art.-No. 3110000800 Set Type 1/23	Art.-No. 3110001500 Set Type 1/13	Art.-No. 3110001900 Set Type 1/9	Art.-No. 3110002200 Set Type 1/6	Art.-No. 3110003300 Set Type 1/23	Art.-No. 3110003400 Set Type 1/13	Art.-No. 3110003500 Set Type 1/9	Art.-No. 3110003600 Set Type 1/6
3110000900	Lifting Bag, Type 1/23, 1.0 bar (14.5 psi)	2				2			
3110001600	Lifting Bag, Type 1/13, 1.0 bar (14.5 psi)		2				2		
3110002000	Lifting Bag, Type 1/9, 1.0 bar (14.5 psi)			2				2	
3110002300	Lifting Bag, Type 1/6, 1.0 bar (14.5 psi)				2				2
3110000100	Valise for Lifting Bag 1/23	1				1			
3110000200	Valise for Lifting Bag 1/13		1				1		
3110000300	Valise for Lifting Bag 1/9			1				1	
3110000400	Valise for Lifting Bag 1/6				1				1
0100000501	Inflation hose 1.0 bar, 5 m, yellow (14.5 psi, 16.4 ft.)	1	1	1	1	1	1	1	1
0100001301	Inflation hose 1.0 bar, 5 m, red (14.5 psi, 16.4 ft.)	1	1	1	1	1	1	1	1
0100001801	Dual fitting controller, 1.0 bar (14.5 psi)	1	1	1	1				
0100001100	Dual deadman controller, 1.0 bar (14.5 psi)					1	1	1	1
1600000200	Pressure regulator, 200/300 bar (3,000/4,500 psi)*	1	1	1	1	1	1	1	1
0100001000	Set repair material 0.5/1.0 bar (7.25/14.5 psi)	1	1	1	1	1	1	1	1
9987000600	Operating instruction Lifting Bags	1	1	1	1	1	1	1	1

* Pressure regulator US-Version: 1600005301
Pressure regulator FR-Version: 1600004700



Lifting bag under a light aircraft

Rescue of injured people

Technical Data Lifting Bags 1.0 bar (14.5 psi)

	Unit	Set 1/23	Lifting Bag 1/23	Set 1/13	Lifting Bag 1/13	Set 1/9	Lifting Bag 1/9	Set 1/6	Lifting Bag 1/6
Art.-No. for set with fitting controller		3110000800	3110000900	3110001500	3110001600	3110001900	3110002000	3110002200	3110002300
Art.-No. for set with deadman controller		3110003300		3110003400		3110003500		3110003600	
Lifting power	to US tons	22.60 24.90	11.30 12.45	13.00 14.30	6.50 7.15	9.00 9.90	4.50 4.95	6.00 6.60	3.00 3.30
Lifting height max.	cm inch	110 43	110 43	62 24	62 24	60 24	60 24	45 18	45 18
Insertion height (uninflated)	cm inch		3 1.2		3 1.2		3 1.2		3 1.2
Diameter	cm inch		120 47		91 36		76 30		61 24
Working pressure	bar psi	1.0 14.5	1.0 14.5	1.0 14.5	1.0 14.5	1.0 14.5	1.0 14.5	1.0 14.5	1.0 14.5
Test pressure	bar psi	1.5 21.75	1.5 21.75	1.5 21.75	1.5 21.75	1.5 21.75	1.5 21.75	1.5 21.75	1.5 21.75
Air requirement at 1.0 bar (14.5 psi)	l cu. ft.	4,972 175	2,486 88	1,612 57	806 28	1,088 38	544 19	524 19	262 9
Nominal content	l cu. ft.	2,486 88	1,243 44	806 28	403 14	544 19	272 9.6	262 9	131 4.6
Inflation time, approx.	sec.	382	191	124	62	84	42	40	20
Packaged size	cm inch	125 x 20 49 x 8		95 x 20 37 x 8		80 x 20 31.5 x 8		65 x 20 25.6 x 8	
Weight for set with fitting controller	kg lbs	57.5 127	21 46	39.7 87	12 26	31.7 70	9 20	24.7 54	7 15
Weight for set with deadman controller	kg lbs	58 128	21 46	40 88	12 26	32 71	9 20	25 55	7 15

Technical changes reserved!

Vetter pressure bags, including the rescue set 1.0 bar (14.5 psi), are used where large heights and exceptional adaptability is required but still maintaining constant “smooth power”. For example, lifting and erecting overturned vehicles, especially thin-walled body parts of cars, buses, lorries and trains. However lifting bags are also the quick and safe solution in emergency situations such as supports in pits or in the rescue of trapped people and animals.



The rescue set shown here with a total lift power of 12.1 tons (13.3 US tons) offers an economical alternative to the lifting bag set 1/13 with deadman controller (refer to Pages 14-16). The main difference is in the simpler construction.



Lifting Bags
1.0 bar (14.5 psi)

Advantages

- Variable pressure up to 1.0 bar (14.5 psi)
- Better stability due to the square shape
- Cut-proof top and bottom plates
- Side walls made of tear-proof aramide
- Repairable

Safety

- High safety factor 1:4
- Integrated safety valve – in addition to the safety valve in the controller (with the rescue set)
- Design test ZU 247/3
- Piercing strength according to DIN 53373, 6 mm objects, 110 mm tin can, 275 kg

Set, consisting of:

Art.-No.	Description	Art.-No. 3110003200 Rescue Set
3110002900	Lifting Bag, Type LH 1/30 S, 1.0 bar (14.5 psi)	2
3110000700	Valise 110 x 72 x 30 cm (43 x 28 x 12 inch)	1
0100000501	Inflation hose 1.0 bar, 5 m, yellow (14.5 psi, 16.4 ft.)	1
0100001301	Inflation hose 1.0 bar, 5 m, red (14.5 psi, 16.4 ft.)	1
0100001100	Dual deadman controller, 1.0 bar (14.5 psi)	1
1600000200	Pressure regulator 200/300 bar (3,000/4,500 psi)*	1
0100001000	Set repair material 0.5/1.0 bar (7.25/14.5 psi)	1
9987000600	Operating instruction Lifting Bags	1

* Pressure regulator US-Version: 1600005301

Pressure regulator FR-Version: 1600004700

Technical Data Pressure Bags 1.0 bar (14.5 psi)

	Unit	LH 1/10	LH 1/30	LH 1/10 S	LH 1/20 S	LH 1/30 S	LH 1/50 S	Rescue Set
Art.-No.		3110002500	3110002600	3110002700	3110002800	3110002900	3110003100	3110003200
Lifting power	to	2.08	6.18	2.16	4.46	6.05	7.11	12.1
	US tons	2.29	6.81	2.38	4.92	6.67	7.84	13.3
Lifting height max.	cm	21	43	37	65	65	75	65
	inch	8	17	15	26	26	30	26
Insertion height (uninflated)	cm	2	2	4	4	4	4	
	inch	0.8	0.8	1.6	1.6	1.6	1.6	
Size	cm	65 x 32	65 x 95	50 x 45	70 x 65	90 x 71	90 x 80	
	inch	26 x 13	26 x 37	20 x 18	28 x 26	35 x 28	35 x 32	
Working pressure	bar	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	psi	14.5	14.5	14.5	14.5	14.5	14.5	14.5
Test pressure	bar	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	psi	21.75	21.75	21.75	21.75	21.75	21.75	21.75
Air requirement at 1.0 bar (14.5 psi)	l	52	228	248	760	1,082	1,434	2,164
	cu. ft.	1.84	8.05	8.75	26.83	38.19	50.62	76.39
Nominal content	l	26	114	124	380	541	717	1,082
	cu. ft.	0.92	4.02	4.38	13.41	19.10	25.31	38.19
Packaged size (L x W x H)	cm							110 x 72 x 30
	inch							43 x 28 x 12
Inflation time, approx.	sec.	4	18	19	58	83	110	164
Weight, approx.	kg	2.5	6.0	3.1	5.5	7.0	11.0	25
	lbs	5.5	13.2	6.8	12.1	15.4	24.3	55.1

Technical changes reserved!

For your safety. Vetter accessories for system 1.0 bar (14.5 psi)

Inflation hose 1.0 bar (14.5 psi) and Shut-off unit



Art.-No. 010000501
Inflation hose 1.0 bar,
5 m, yellow
(14.5 psi, 16.4 ft.)



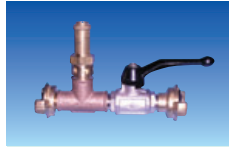
Art.-No. 0100001301
Inflation hose 1.0 bar,
5 m, red
(14.5 psi, 16.4 ft.)



Art.-No. 0100000701
Inflation hose 1.0 bar,
10 m, yellow
(14.5 psi, 32 ft.)



Art.-No. 0100001401
Inflation hose 1.0 bar,
10 m, red
(14.5 psi, 32 ft.)



Art.-No. 0100000300
Shut-off unit 1.0 bar
(14.5 psi)

Controllers 1.0 bar (14.5 psi)



Art.-No. 0100001100
Dual deadman controller,
1.0 bar (14.5 psi)



Art.-No. 0100001501
Single fitting controller*,
1.0 bar (14.5 psi)



Art.-No. 0100001801
Dual fitting controller*,
1.0 bar (14.5 psi)

* NOTE: The fitting controller do not match with the EN 13731.

Please choose your additional accessories according to the air source

Compressed air cylinder	Compressor	Brake line of a truck	Tyre inflation system	Tyre	Commercial hand or foot pump	Fixed compressed air installation
<p>Art.-No. 1600000200 Pressure regulator 200/300 bar (3,000/4,500 psi)</p>						
<p>US-Version: 1600005301 FR-Version: 1600004700</p>						
	<p>Art.-No. 1600013401 Air-supply hose 10 m, green (32 ft.)</p>					
				or alternative		
					<p>Art.-No. 1600013601 Air-supply hose 10 m, green (32 ft.) with shut-off unit</p>	

Lifting Bags
1.0 bar (14.5 psi)

<p>Compressed air cylinders Art.-No. 1600010800 6 l/300 bar (0.2 cu.ft./4,500 psi) Art.-No. 1600019900 9 l/300 bar (0.3 cu.ft./4,500 psi) Art.-No. 1600010500 10 l/200 bar (0.35 cu.ft./3,000 psi)</p>	<p>Art.-No. 1600011600 Safety and carrier rack for compressed air cylinder 6 l/300 bar (0.2 cu.ft./4,500 psi) Two cylinder rack Art.-No. 1600010500 10 l/200 bar (0.35 cu.ft./3,000 psi)</p>	<p>Art.-No. 1600012000 Construction-site compressor adaptor</p>	<p>Art.-No. 1600007500 Truck brake connector, 2 way</p>	<p>Art.-No. 1600007800 Tyre inflation system adaptor</p>	<p>Art.-No. 1600012900 Tyre valve connector</p>	<p>Art.-No. 1600008000 Truck tyre valve</p>	<p>Art.-No. 1600008200 Compressed-air mains connector</p>
<p>Art.-No. 1600009100 Dual connector 300 bar (4,500 psi) Art.-No. 1600008400 Dual connector 200 bar (3,000 psi)</p>	<p>Art.-No. 1600011600 Safety and carrier rack for compressed air cylinder 6 l/300 bar (0.2 cu.ft./4,500 psi) (you have to use this article two times for the four cylinder rack) Art.-No. 1600011800 Trolley for safety and carrier rack Four cylinder rack Supplied without cylinders.</p>	<p>Art.-No. 1600008200 Adaptor for portable compressor</p>	<p>Art.-No. 1600012600 Sealing-off cap</p>				<p>Art.-No. 1600014500 Pressure regulator max. 20 bar (290 psi)</p> <p>If the outgoing pressure of the fixed compressed air installation is higher than the permitted filling pressure of the controller, you have to replace the compressed-air mains connector with this pressure regulator.</p>
				<p>Art.-No. 1600012500 Set universal connectors</p>			

Vetter Rescue Path 0.5 bar (7.25 psi) NG



Rescue paths from Vetter are transportable, pneumatic rescue paths. They enable rescue service personnel to react quickly and effectively in search, rescue and recovery operations on ice, water, moor land, marshy ground or other similar unstable ground. The paths are supplied in standard lengths of 6 m (19 ft.), 10 m (32 ft.) and 15 m (48 ft.). Other lengths and even other versions can also be supplied if required.

The basic equipment includes the inflation connection, safety valve, deflation valve, securing lines and handles as well as stop rings. Corresponding packing sheets guarantee safe transport and correct storage.

Inflation of the path is made by an inflation hose which is directly connected to a compressed air bottle. The path can be deflated after operation using the vacuum adapter.

Advantages

- Quickly operational
- Adjustable coupling devices
- The edges are surrounded with luminous strip enabling night operation
- Specially designed edge profile for pulling people easily onto the path

Safety

- Low operating pressure of max. 0.5 bar (7.25 psi)
- A safety valve integrated into the path avoids over-inflation
- Tear-resistant material
- Anti-slip paths can be supplied on request

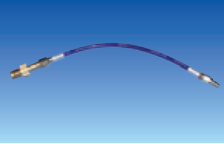
Technical Data Rescue Path NG

	Unit	6 m (19 ft.)	10 m (32 ft.)	15 m (48 ft.)
Art.-No.		1530003301	1530000601	1530000101
Art.-No. with anti-slip surface		1530008501	1530008601	1530008701
Size external (L x W x H)	cm	600 x 140 x 10	1,000 x 140 x 10	1,500 x 140 x 10
	inch	236 x 55 x 4	394 x 55 x 4	591 x 55 x 4
Working pressure	bar	0.50	0.50	0.50
	psi	7.25	7.25	7.25
Test pressure	bar	0.65	0.65	0.65
	psi	9.4	9.4	9.4
Air requirement at 0.5 bar (7.25 psi)	l	1,321	2,196	3,360
	cu. ft.	47	78	119
Nominal content	l	881	1,464	2,240
	cu. ft.	31	52	79
Inflation time, approx	sec.	18	30	45
Packaged size (L x W x H)	cm	165 x 35 x 25	165 x 45 x 30	165 x 60 x 45
	inch	65 x 14 x 10	65 x 18 x 12	65 x 24 x 18
Weight, approx.	kg	27	44	66
	lbs	60	97	146

Technical changes reserved!

For your safety. Vetter accessories for rescue path NG

Inflation hose for rescue path



Art.-No. 1530003401
Inflation hose for rescue path,
500 mm (20 inch) for direct inflation
by compressed air cylinder
US-Version: 1530007600
FR-Version: 1530007100

Accessories for the deflation of the rescue path

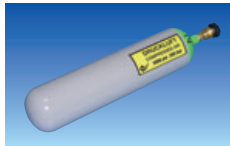


Art.-No. 1600016300
Vacuum adaptor for rescue path
and safety cushion



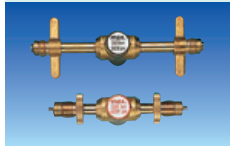
Art.-No. 1600000200
Pressure regulator
200/300 bar,
(3,000/4,500 psi)

US-Version: 1600005301
FR-Version: 1600004700



Compressed air cylinders

Art.-No. 1600010800
6 l/300 bar
(0.2 cu.ft./4,500 psi)
Art.-No. 1600019900
9 l/300 bar
(0.3 cu.ft./4,500 psi)
Art.-No. 1600010500
10 l/200 bar
(0.35 cu.ft./3,000 psi)



Art.-No. 1600009100
Dual connector
300 bar (4,500 psi)
Art.-No. 1600008400
Dual connector
200 bar (3,000 psi)



Art.-No. 1600011600
Safety and carrier rack for
compressed air cylinder
6 l/300 bar
(0.2 cu.ft./4,500 psi)
Two cylinder rack

Supplied
without cylinders.



Art.-No. 1600011600
Safety and carrier rack for
compressed air cylinder
6 l/300 bar
(0.2 cu.ft./4,500 psi)
(you have to use this
article two times for the
four cylinder rack)
Art.-No. 1600011800
Trolley for safety
and carrier rack
Four cylinder rack

Supplied
without cylinders.

Fotos: GMRS German Maritime Rescue Service,
Rescue vessel "Bremen" Baltic Sea



Vetter Safety Cushions SP 16 / SP 25



Safety Cushions are used for rescue work when ladders are not available or if they cannot be used due to lack of space.

The landing area and visual area, the blue circle, was designed according to psychological aspects. The colour and the shape helps to reduce the paralyzing fear which the person being rescued may have before jumping. This landing area was developed in cooperation with the experienced psychologist Professor Horst Schuh resulting in special advantages as well as being favourably assessed.

Safety Cushions are produced in two standard sizes and with two different landing areas and visual areas – the blue circle and the black cross.

The self-assembling support platform is made out of a layered structure that has been successfully field proven in other Vetter products. The outer covering is made of a special inflammable-resistive, anti-tear and anti-rotting material.

Not available in USA.

Advantages

- Only two people are needed for assembly (four people for the SP 25)
- Outer covering is made of inflammable-resistive and anti-tear material
- SP 16 tested according to DIN 14151 T1 and T3, and designed for human rescue up to a maximum height of 16 m (51 ft.) (Test rep.: Fire Service Berlin - FG-2/07)
- SP 25 tested according to DIN and designed for human rescue up to a maximum height of 25 m (80 ft.)
- Safety valve replaceable

Safety

- Safety valve integrated into the support frame
- 1.3 times the test pressure to operating pressure

Technical Data Safety Cushion

	Unit	SP 16	SP 25
Art.-No. (blue circle)		1530000801	1530010000
Art.-No. (black cross)		1530005001	1530005900
Size external (L x W x H)	cm inch	350 x 350 x 170 138 x 138 x 67	460 x 460 x 240 181 x 181 x 94
Working pressure	bar psi	0.30 4.35	0.50 7.25
Test pressure	bar psi	0.45 6.50	0.65 9.40
Air requirement at 0.3 bar/0.5 bar (4.35 psi/7.25 psi)	l cu. ft.	1,235 44	2,240 79
Nominal content	l cu. ft.	950 34	1,493 53
Inflation time, approx.	sec.	30	60
Packaged size (L x W x H)	cm inch	90 x 55 x 30 35 x 22 x 12	110 x 63 x 45 43 x 25 x 18
Weight incl. compressed air cylinder	kg lbs	55 121	94 207
Temperature range	°C °F	- 20 / + 50 - 4 / + 122	- 20 / + 50 - 4 / + 122

Technical changes reserved!

For your safety. Vetter accessories for safety cushion

Inflation hose for safety cushion



Art.-No. 1530004201
Inflation hose for safety cushion
for direct inflation
by compressed air cylinder
US-Version: 1530008100
FR-Version: 1530006500

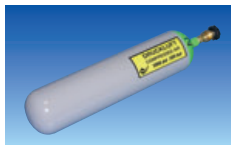
Accessories for the deflation of the safety cushion



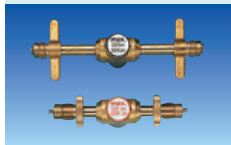
Art.-No. 1600016300
Vacuum adaptor for rescue path
and safety cushion



Art.-No. 1600000200
Pressure regulator
200/300 bar,
(3,000/4,500 psi)
US-Version: 1600005301
FR-Version: 1600004700



Compressed air cylinders
Art.-No. 1600010800
6 l/300 bar
(0.2 cu.ft./4,500 psi)
Art.-No. 1600019900
9 l/300 bar
(0.3 cu.ft./4,500 psi)
Art.-No. 1600010500
10 l/200 bar
(0.35 cu.ft./3,000 psi)



Art.-No. 1600009100
Dual connector
300 bar (4,500 psi)
Art.-No. 1600008400
Dual connector
200 bar (3,000 psi)



Art.-No. 1600011600
Safety and carrier rack
for compressed air
cylinder
6 l/300 bar
(0.2 cu.ft./4,500 psi)
Two cylinder rack

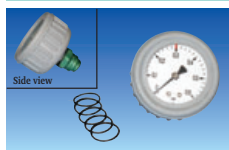
Supplied
without cylinders.



Art.-No. 1600011600
Safety and carrier rack
for compressed air
cylinder
6 l/300 bar
(0.2 cu.ft./4,500 psi)
(you have to use this
article two times for the
four cylinder rack)
Art.-No. 1600011800
Trolley for safety
and carrier rack
Four cylinder rack

Supplied
without cylinders.

Accessories for testing of the safety cushion



Art.-No. 1530002101
Test gauge for safety cushion

Sets Safety Cushions, consisting of:

Art.-No.	Description	Art.-No. 15300000801 Set SP 16 "blue circle"	Art.-No. 1530005001 Set SP 16 "black cross"	Art.-No. 1530005900 Set SP 25 "black cross"	Art.-No. 1530010000 Set SP 25 "blue circle"
	Safety Cushion SP 16 (blue circle)	1			
	Safety Cushion SP 16 (black cross)		1		
	Safety Cushion SP 25 (black cross)			1	
	Safety Cushion SP 25 (blue circle)				1
1530004400	Packing foil for Safety Cushion SP 16	1	1		
1530005800	Packing foil for Safety Cushion SP 25			1	1
1530008800	Set repair material for Safety Cushion SP 16 and SP 25	1	1	1	1

Vetter Resistance charts and material charts



With resistance inspections (DIN 53476 and 53521) material durability is assessed with respect to changes in its mass and hardness. The resistance of a rubber mixture is, depending on diffusion, influenced by the material thickness used. Most of the stresses are caused by a combination of chemical-thermal effects and swelling.

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. Therefore the resistance list can only be used as a rough guide.

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

This list of resistance values was compiled under the above factors and rated with the following symbols:

- + resistant
- o conditionally resistant
- non-resistant
- nd no details

The data corresponds to our current know-how and are to be taken as guidelines.

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

Temperature resistance limits

Products	Cold-resistance	Cold-flexible	Heat resistance long term	Heat resistance short term
Hot-vulcanised	- 40° C	- 20° C	+ 90° C	+ 115° C
Cold-vulcanised	- 40° C	- 20° C	+ 70° C	+ 85° C
NG	- 35° C	- 35° C	+ 80° C	+ 110° C
Rubber hoses	- 40° C	- 30° C	+ 90° C	
Packing bags	- 20° C		+ 50° C	
Pack sheets	- 20° C		+ 50° C	
Controller, fitting	- 20° C		+ 50° C	
Controller, plastic	- 20° C		+ 50° C	
Controller, aluminium	- 20° C		+ 50° C	

Technical changes reserved!

Material list

Product	Material	Support Material	Manufacture
Lifting bag 1.0 bar (14.5 psi)	CR	Aramide/Polyester	Cold-vulcanised
Packing bag	PVC	Polyester	-
Rescue set 1.0 bar (14.5 psi)	CR	Aramide/Polyester	Cold-vulcanised
Pressure bags 1.0 bar (14.5 psi)	CR	Aramide/Polyester	Cold-vulcanised
Ultra Flat Bag	CR	Aramide	Hot-vulcanised
S.Tec Bag 10.0 bar (145 psi)	CR	Aramide	Hot-vulcanised
Mini Lifting Bags 8.0 bar (116 psi)	CR	Steelcord/Aramide	Hot-vulcanised
Rescue Path 0.5 bar (7.25 psi) NG	NG	Polyester	Cold-vulcanised
Packing sheet for path	PVC	Polyester	-
Safety cushion support frame	CR	Polyamid	Cold-vulcanised
Safety cushion sheet	PVC	Polyester	-
Packing sheet for Safety Cushion	PVC	Polyester	-
Inflation hoses and air supply hoses	EPDM	Polyester	-

Technical changes reserved!



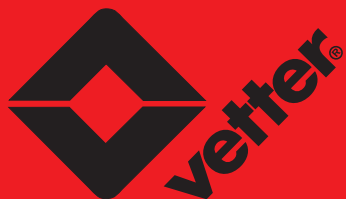
Resistance charts

Agent	CR	PVC	EPDM	NG
Aceton	o	-	-	-
Acetylene	+	o	-	-
Alum, watery	+	+	-	o
Aluminium chloride	+	o	+	+
Anilene	-	-	nd	o
ASTM-oil 1	o	nd	-	+
Petrol	o	-	nd	o
Benzene	-	-	-	o
Boric acid	+	+	+	+
Bromine (moist)	-	-	-	-
Butyric acid	-	o	nd	o
Chlorine gas (moist)	-	-	nd	-
Chlorine (wet)	o	nd	o	-
Diesel fuel	o	o	-	+
Iron chloride	+	+	+	+
Petroleum	o	o	-	+
Acetic acid	o	o	o	o
Fatty acid	+	nd	-	o
Formaldehyde	+	nd	+	-
Glukose	+	+	+	+
Heating oil	+	+	-	+
Potassium chloride	+	o	+	+
Calcium chloride	+	o	+	+

Agent	CR	PVC	EPDM	NG
Calcium nitrate	+	nd	+	+
Carbon dioxide	+	+	+	+
Carbon monooxide	+	-	+	+
Copper sulphate	+	o	+	+
Adhesive	+	nd	+	o
Methyl chloride	-	o	o	o
Sea water	+	o	nd	+
Mineral oil	+	+	-	+
Sodium carbonate	+	-	-	+
Ozone	+	nd	+	+
Paraffin	+	nd	-	+
Perchloric acid	o	nd	+	-
Phenol (watery)	-	-	+	-
Phosphoric acid (concentrated)	-	+	-	-
Mercury	+	o	+	+
Nitric acid (fuming)	-	+	-	-
Sulphur dioxide (dry)	-	o	nd	o
Sulphur acid (50%)	+	o	-	-
Nitrogen	+	nd	+	+
Carbon tetrachloride	-	o	-	-
Animal fat	+	nd	+	+
Toluene	-	-	-	-

Technical changes reserved!

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