

VETTER LIFTING BAGS 1.0 bar (14.5 psi)



Vetter Lifting Bags do a superb job in emergencies. Usable in critical situations, when speed is of the essence. They are highly adaptable and ideal for raising loads with gentle power quickly to great heights.

For more than two decades, these robust, cushion-like Lifting Bags have stood the toughest of tests in rescue work - with fire brigades, rescue services and in industry.



APPLICATIONS:

- Lifting overturned vehicles
- Lifting cars, buses, vans, trams, rail cars without damaging thin-walled bodywork
- Uprighting overturned vehicles
- Emergency bracing in workpits
- Lifting small aircraft

SIZES:

Four sets with lifting capacities ranging from 5,800 kg (12,783 lbs) to 22,600 kg (49,810 lbs)

LIFTING HEIGHTS:

Up to 110 cm (43 in.)

ADVANTAGES:

- Large lifting height up to 110 cm (43 in.)
- Same lifting force over the entire lifting range
- Even distribution of load over the lifted surface and ground; no single point loaded more than 1000 g/cm² (14.2 psi)
- Usable on soft, marshy or snow-covered ground
- Bags adapt to the contours of uneven ground - even rocks, rubble and rails
- Highly flexible - gripping loads at the edge to lift and push simultaneously
- Continuous, noiseless, and jolt-free lift
- Usable on slopes
- Bag's cylindrical shape gives optimum pressure distribution and all-round stability

Special internal distance holders prevent top and bottom plates from bulging and protect the bags against damage from sharp edges

Dimpled surface on both top and bottom plates give the bags a better grip on soft ground

Internal distance holders enhance lateral stability

More than a quarter century of sterling service, worldwide

Made in Germany



Low insertion height of only 3 cm (1.2 in.)

Light weight (from 7 kg/16 lbs per bag)

Robust claw couplings

Variable operating pressure from 0.1 through 0.5 to 1 bar (7.25 to 14.5 psi)

Eight loops for bag adjustment

No wear parts, maintenance-free

Easily repaired

Operating instructions in 16 languages

SAFETY:

- TÜV-Rhineland inspectorate
- Type certification
- Ongoing production control by TÜV-Rhineland inspector

Bursting pressures 3 to 4 times the maximum allowable working pressure

Added safety through use of two identical-size bags

The supporting surface is greater than the lifting height = good stability

All bags are tested at 1.5 times their maximum allowable working pressure

Screw-type claw coupling system

Brief operating instructions on every bag

Protective cover for connection coupling

Dual safety controller with two ball cocks, two safety valves, two pressure gauges and two claw couplings prevent over-inflation

Liftings Bags 1.0 bar (14.5 psi) conform fully to the German "Air Lifters" Standard DIN 14 152 T1 of November 1, 1986

Large hose cross-section for secure fit to safety valve

Air hoses with two clamp fasteners, producing an immense tear-out strength of 325 kg (718 lbs)

MATERIAL: C

Highly tear resistant aramide fabric Neoprene-coated, abrasion-proof, oil and age-resistant

Highly resistant top and bottom plate of rubberized polyamide

Patented in-vulcanized valve connection for optimum joint strength

Long life (minimum 12 years) when used and stored correctly



AIR SOURCES:

Compressed-air cylinder 200 or 300 bar (3,000 or 4,500 psi)
Compressed-air mains
Compressor
Truck tyre inflator
Truck brake system

ACCESSORIES:

Pressure regulator 200/300 bar (3,000/4,500 psi), finger-tight connector
Dual connector 200 bar (3,000 psi)
Dual connector 300 bar (4,500 psi)
Dual fitting controller 1 bar/14.5 psi
Compressed-air hoses 5 m (16.4 ft.), 19 mm (0.75 in.), ISO 5774, internal diameter, screw-type claw couplings
Universal connector kit
Portable valise
Repair kit



Set Lifting Bags type 1/13 (VS 14)

Art.No.: 312 00 000
Rated capacity 13,000 kg (28,652 lbs)
Lifting height: 62 cm (24.4 in.)
consisting of:
2 x Lifting Bags type 1/13 including standard equipment
Weight: 40 kg (88 lbs)

Set Lifting Bags type 1/6 (VS 6)

Art.No.: 314 00 000
Rated capacity 5,800 kg (12,783 lbs)
Lifting height: 45 cm (17.7 in.)
consisting of:
2 x Lifting Bags type 1/6 including standard equipment
Weight: 29 kg (64 lbs)



COMPLETE SETS:

Set Lifting Bags type 1/23 (VS 24)

Art.No.: 311 00 000
Rated capacity 22,600 kg (49,810 lbs)
Lifting height: 110 cm (43 in.)
consisting of:
2 x Lifting Bags type 1/23 including standard equipment
Weight: 59 kg (130 lbs)

Set Lifting Bags type 1/9 (VS 10)

Art.No.: 313 00 000
Rated capacity 9,000 kg (19,836 lbs)
Lifting height: 60 cm (23.6 in.)
consisting of:
2 x Lifting Bags type 1/9 including standard equipment
Weight: 35 kg (77 lbs)

Standard equipment for all sets:

1 x Portable valise
2 x Inflation hoses 5 m (16.4 ft.) long
1 x Dual fitting controller 1.0 bar (14.5 psi)
1 x Pressure regulator 200/300 bar (3,000/4,500 psi)
1 x Repair kit

TECHNICAL DATA:

Lifting Bags 1,0 bar (14.5 psi)

Typ		1/23	1/13	1/9	1/6
USA		VS 24	VS 14	VS 10	VS 6
DIN designation		LH50S	LH30S	LH20S	LH10S
Art.-No. (Complete set)		31100000	31200000	31300000	31400000
Art.-No. (Individual bag)		31101000	31201000	31301000	31401000
Lifting power (2 bags = 1 set)	kg (lbs)	22,600 (49,810)	13,000 (28,652)	9,000 (19,836)	5,800 (12,783)
Lifting height	cm (in.)	110 (43)	62 (24)	60 (24)	45 (18)
Diameter	cm (in.)	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)
Air req. for 2 bags	l (cu. ft.)	4,872 (175)	1,612 (57)	1,088 (38)	524 (19)
Nominal content 1 bag	l (cu. ft.)	1,243 (44)	403 (14)	272 (9.6)	131 (4.6)
Test pressure	bar (psi.)	1.5 (21.75)	1.5 (21.75)	1.5 (21.75)	1.5 (21.75)
Insertion height (uninflated)	cm (in.) approx.	3 (1.2)	3 (1.2)	3 (1.2)	3 (1.2)
Weight 2 bags with valise	kg (lbs) approx.	45 (99)	26 (57)	21 (46)	15 (33)
Weight Complete Set	kg (lbs) approx.	59 (130)	40 (88)	35 (77)	29 (64)

