

Pneumatic products for industrial applications

Product catalogue



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Special constructions

Special tools for every application

- › different materials
- › many sizes and shapes possible
- › precise and steplessly variable
- › numerous applications

We implement your tool idea: Especially in the industrial sector, special tools tailored to individual needs are often required. This is where our special and custom-made products come in: Together with our customers, we develop and manufacture pneumatic constructions for every application. Flexibility and versatility are the top priorities: Whether material, operating pressure, size, shape, filling connection or resistance – our customers can choose from many different options, have a say themselves and create their desired tool together with our experts.



Pipe gripper with internal expansion



Pipe gripper with external expansion



Gel packer with constriction



Testing device Pipe jacking

Industrial bags 8 bar (116 psi): V and IKV series

The silent powerhouse

- › in a flash
- › type designation = lifting power
- › can be controlled with

Even the heaviest loads lifted quickly: The Vetter industrial bags 8 bar (116 psi) are real performance wonders and lift, push, press, prise and split even the heaviest loads with ease - and even in inclined position. They operate silently, smoothly and steplessly.

Due to their multi-layer construction (aramid armouring), which covers each side of the bag broadly, they are extremely robust and at the same time particularly light weight. Their surface profile ensures improved grip even on slippery surfaces such as grass or sand. 8 bar industrial bags can be filled with both air and water. The necessary accessories can be put together individually.

Optionally, we also offer the 8 bar (116 psi) industrial bags:

- with smooth surface
- with other inflation connections (e.g. central)
- in special sizes or shapes
- with other operating pressures

Just get in touch with us and together we will find the right model for your purpose.

The right bags for every application



The industrial bags of the **V-Series** are particularly suitable for **temporary applications**, such as:

- › Assembly and maintenance work on machines and other equipment
- › Moving and adjusting heavy loads

The industrial bags of the **IKV series** have been specially developed for applications with **high lifting frequencies**, such as:

- › Closing device in presses or other machine
- › Regular pressing or lifting of loads
- › Mould ejection in production lines

Technical Data*

The sizes V 1 (IKV 1) – V 40 (IKV 40) have an insertion height of 2.5 cm (0.98 inch), V 54 (IKV 54) – V 68 (IKV 68) of 2.8 cm (1.1 inch).

Industrial bags 8 bar (116 psi)		Lifting power	Lifting height**, max.	Size	Air requirement	Weight, approx.
		to / US tons	cm / inch	cm / inch	Liter / cu.ft.	kg / lbs
V 1 1314009300	IKV 1 5100010800	1.0 1.1	7.5 3.0	14x13 5.5x5.1	2.7 0.1	0.5 1.1
V 3 1314009500	IKV 3 5100010900	3.3 3.6	12.0 4.7	25.5x20 10x7.9	15.8 0.6	1.0 2.2
V 5 1314018200	IKV 5 5100011000	5.7 6.3	14.5 5.7	28x28 11x11	28.4 1.0	1.4 3.1
V 6 1314009600	IKV 6 5100011100	6.4 7.0	16.5 6.5	29.5x29.5 11.6x11.6	39.6 1.4	1.9 4.2
V 10 1314002200	IKV 10 5100011200	9.6 10.6	20.3 8.0	37x37 15x15	82.8 2.9	3.3 7.3
V 12 1314002400	IKV 12 5100010600	12.0 13.2	20.0 7.9	32x52 13x20	96.3 3.4	3.9 8.6
V 18 1314002500	IKV 18 5100011300	17.7 19.5	27.0 10.6	47x52 19x20	195.3 6.9	5.7 12.6
V 20 1314011800		19.4 21.4	28.0 11.0	48x58 19x23	224.1 7.9	6.2 13.7
V 24 1314002600	IKV 24 5100011500	24.0 26.5	30.6 12.0	52x62 20x24	296.1 10.4	7.2 15.9
V 24 L 1314002700	IKV 24 L 5100011600	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	IKV 31 5100011700	31.4 34.6	37.0 14.6	65x69 26x27	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	IKV 40 5100011900	39.6 43.7	40.2 15.8	78x69 31x27	675.0 23.6	12.2 26.9
V 54 1314003000	IKV 54 5100012100	54.4 60.0	47.8 18.8	86x86 34x34	1,117.8 39.5	17.3 38.1
V 68 1314003100	IKV 68 5100012200	67.7 74.6	52.0 20.5	95x95 37x37	1,457.1 51.4	20.7 45.6

* Subject to technical changes. / ** Please note our load path diagram!

Industrial bags (8 bar): Operating pressure: 8 bar (116 psi) | Test pressure: 14 bar (203 psi) | Burst pressure at least: 32 bar (464 psi)
L: Elongated industrial bag

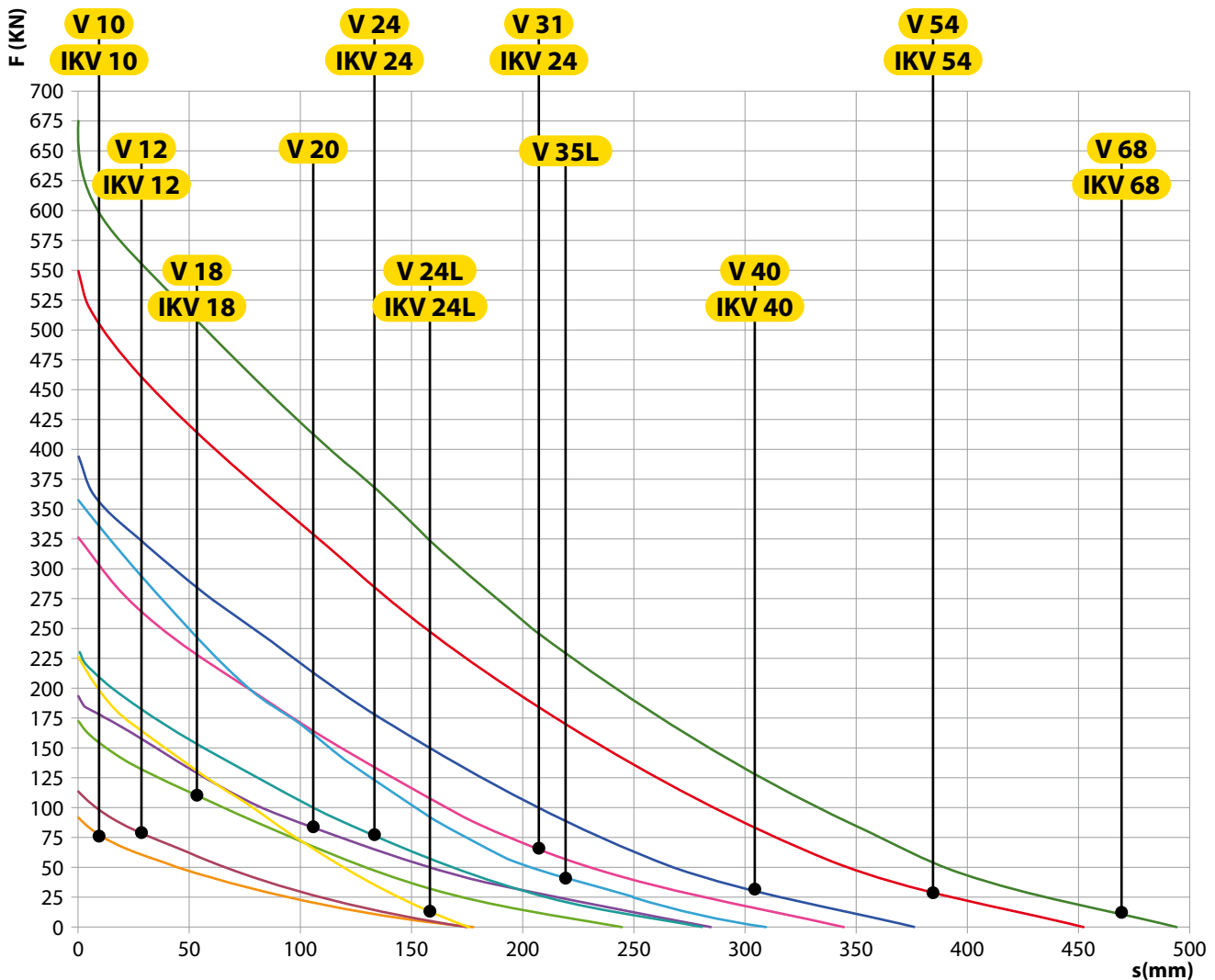
The right bags for maximum lifting power

In order for our industrial bags to develop their maximum lifting power, the entire surface of the bag – i.e. total surface area minus the edge areas – must lie fully under the load to be lifted and the bag must be filled with the max. permissible operating pressure.

Which industrial bag you use depends on the weight of the load to be lifted and the stroke distance. Please note: An industrial bag develops the greatest power at the beginning of the stroke distance. It reaches its maximum lifting height when unloaded.

The result is that the stroke distance shortens as the load increases. In the load path diagram below, we have illustrated this process again for different industrial bag models.

Load path diagram V 10 – V 68 / IKV 10 – IKV 68



We will be happy to provide you with load path diagrams of the individual bags on request.

Examples for applications of the industrial bags of the V and IKV series



Steel industry

- Small insertion dimension from 2.5 cm (0.98 inch)



Production

- Aligning the elements during assembly



Bridge

- Substructure of bridge elements



Rail traffic

- Lifting of rail vehicles



Mining

- Creating spaces



Wind

- Wind turbine assembly



Gravel plants

- Lifting trucks, machines, etc.



Agriculture and forestry

- Lifting agricultural and forestry machinery for maintenance work
- Splitting a tree trunk

Accessories – Inflation of the bags

8 bar (116 psi)

Inflation hose, 8 bar (116 psi)

- ▶ **5 m (16.4 ft.):**
080000901 ● (Yellow)
- ▶ **10 m (32 ft.):**
0800007401 ● (Yellow)

- ▶ **5 m (16.4 ft.):** **0800001301** ● (Red)
- ▶ **10 m (32 ft.):** **0800007601** ● (Red)



Shut-off unit, 8 bar (116 psi)

- ▶ 0,3 m (1 ft.)

- ▶ **0800007301** ● (Yellow)

- ▶ **0800007201** ● (Red)



Air CU Lighting

- ▶ Deadman controller,
8 bar (116 psi)
- ▶ circuit plastic
housing with lighting



- ▶ **Dual controller:**
0800019900

Shut-off unit, 8 bar (116 psi)

- ▶ **0800005800**



Aluminium controller

- ▶ Deadman controller,
8 bar (116 psi)
- ▶ circuit connectable



- ▶ **Dual controller:**
0800015800

Fitting controller*

- ▶ controller, 8 bar (116 psi)

- ▶ **Single: 0800002001**

- ▶ **Dual: 0800002401**



*According to EN 13731, these items are not approved for use by fire services within the EU.

Inflation with cylinder

Compressed air cylinder

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

▶ **1600010100**

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

▶ **1600010800**

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

▶ **1600019900**

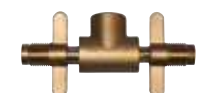


Dual connector

- › for simultaneous connection 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)
- › max. outlet pressure, 14 bar (203 psi)

▶ **1600031900 | 1600032000 (USA)**



Inflation with alternative air source**

Air supply hose

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

▶ **1600013601**



Truck tyre valve

▶ **1600008000**



Truck tyre valve connector

▶ **1600012900**



Truck tyre inflation system adapter

▶ **1600007800**



**For any other air source than the compressed air cylinder you need the green supply hose.

Accessories – Inflation of the bags

Compressor

Adapter fitting for construction compressor

▶ 1600012000



Adapter fitting for portable compressor

▶ 1600008200



Truck brake line

Truck compressed air connector

▶ Dual circuit system

▶ 1600007500



Sealing-off cap

▶ 1600012600



Adapter set for all compressed air sources

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

▶ 1600012501



The set includes:

- ▶ 2x air supply hose, 10 m (32 ft.), green with shut-off valve
- ▶ Truck tyre inflation system adapter
- ▶ Truck tyre valve
- ▶ Truck tyre valve connector
- ▶ Truck compressed air connector
- ▶ Sealing-off cap
- ▶ Adapter fitting for construction compressor
- ▶ Adapter fitting for stationary compressed air network
- ▶ Bag 18x45 cm (7 x 17.7 inch)

Non-movable compressed air network

Adapter fitting for stationary compressed air network

▶ 1600008200



Pre-pressure regulator

▶ max. inlet pressure, 16 bar (232 psi)**

▶ 1600014500



**Note: If the outlet pressure of the compressed air network exceeds the permissible filling pressure of the control element, the adapter fitting must be replaced with the upstream pressure reducer.