



The specialist for efficient logistics processes

FIPALIFT Easy, with a lifting force of **up to 65 kg**, was developed to make the most efficient use possible of the freight and cargo space in trucks and containers.

With a classic tube lifter, it is often not possible to stack goods high without sacrificing ergonomics.

The L-shaped operating handle, specially designed for this requirement, facilitates ergonomic working – even in the case of overhead stack heights, without the operator having to stretch or bend over the pallet.

The shape of the operating handle thus allows the operator to lift the load from the floor and place it at a considerable height while remaining upright at all times.

The fully integrated release valve enables the rapid placement of lifted goods.



FIPALIFT Easy



- > Transport costs are high and often depend on both the used and unused freight volumes
- > FIPALIFT Easy facilitates the most efficient use of freight volumes and thus helps you save on transport costs



- > FIPALIFT Easy is based on FIPALIFT Basic technology, so that all its accessories also fit the Easy



Our full range of vacuum cups can be seen in the FIPA Vacuum Technology catalog or at www.fipa.com.

FIPALIFT Easy

FIPALIFT Easy standard versions

FIPALIFT Easy standard versions

NEW



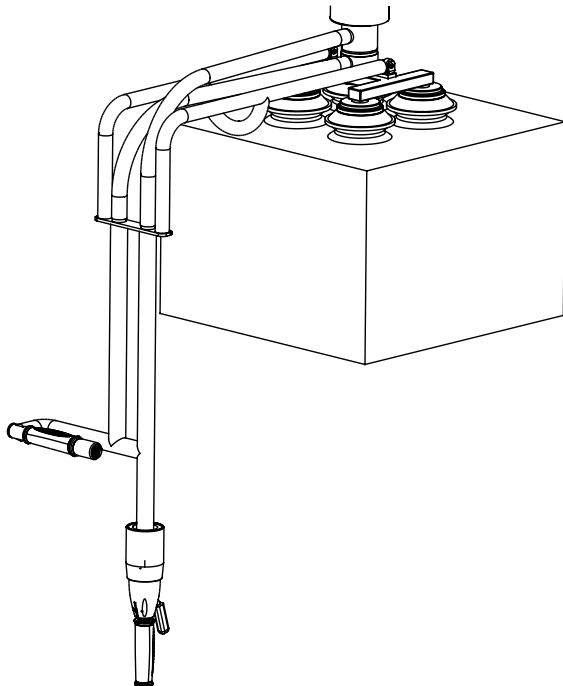
Product notes

- > The basic versions include standard equipment such as a control handle, a stroke of 2.5 m and a suspension with eyelet
- > Apart from standard equipment, we also offer a wide range of factory-fitted options
- > The necessary vacuum supply, vacuum cups and gripper device are not included in the scope of delivery
- > Please note the table of combinations for "Combination of lifting tube diameter and pump" which can be used to establish the best possible combination for the required lifting force
- > All the accessories for the FIPALIFT Basic can be used for the FIPALIFT Easy
- > Other lifting tube lengths are available as an option
- > We would be pleased to help you choose the right system design

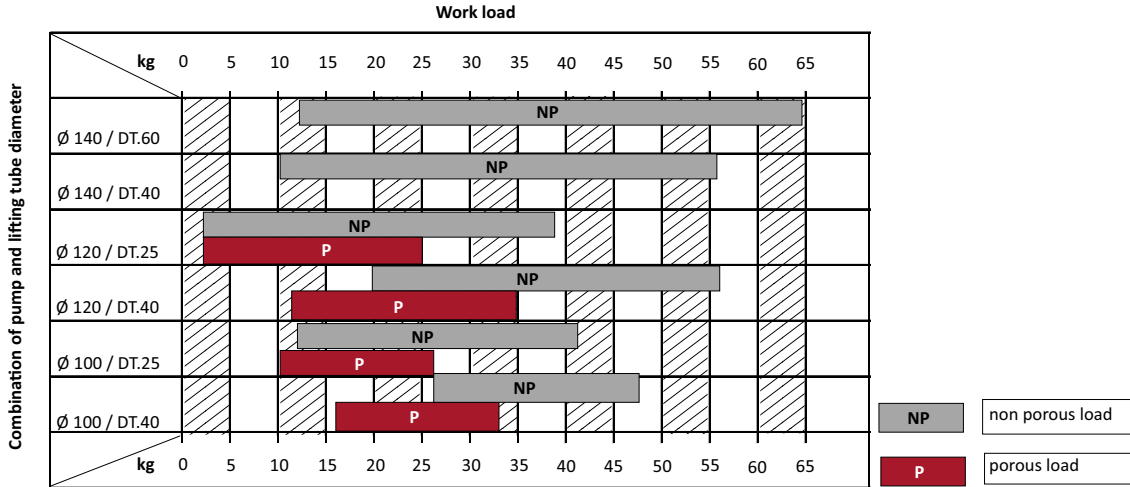
Technical data

Item no.	Ø Lifting tube [mm]	Mounting height at lifting tube length 2.5 m [mm]	Mounting height at lifting tube length 3 m [mm]
SH.BAS.EAS.100	100	2,800	3,000
SH.BAS.EAS.120	120	2,800	3,000
SH.BAS.EAS.140	140	2,800	3,000

Gripping the load from above



Combination of lifting tube diameter and pump



The bars in the diagram show the recommended load weights that can be handled by the individual combination of lifting tube diameter and pump. The recommendations are based on appropriate lifting speeds. A light load will be lifted faster than a heavy load. A non porous load (NP), for example a metal sheet, will be lifted faster than a porous load (P), for example a carton. Do not use the combination of lifting tube diameter and pump for loads heavier than recommended.

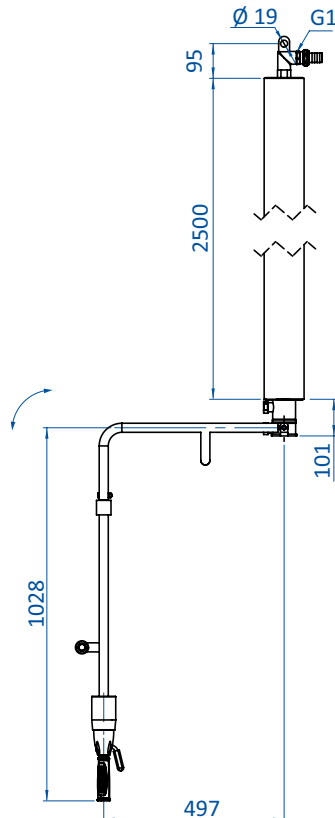
An example of how to use the diagram:

A tube lifter FIPALIFT Easy 120 with a pump DT.25 (lifting tube diameter 120 mm, pump size 25 m³/h) is recommended for lifting non porous loads in the range from 3 kg to 38 kg and for porous loads in the range from 3 kg to 25 kg. The combination with a larger tube lifter and a smaller pump is recommended for softer lifting. The selection is also highly dependent on the consistency of the load to be lifted, lifting trials may be required. Please contact our technical sales department.

FIPA will carry out suction trials on your lifting equipment to determine the porosity of the material to be handled.

Calculation aid for calculating the stroke for shortened tubes can be found on page 62 – 63.

Dimensions



Calculation aid for calculating the stroke

FIPALIFT Basic, Smart and Easy

∅ Lifting tube [mm]	Length lifting tube [mm]	A max * [mm]	A min ** [mm]	Stroke [mm]	E [mm]	F [mm]	G (Stroke) [mm]
60	2,500	2,520	680	1,840	(A max-90)x0.24+90	(A min-90):0.24+90	(Stroke:0.76)+70
60	3,000	3,020	780	2,240			
60	4,000	4,020	1,030	2,990			
80	2,500	2,520	680	1,840	(A max-90)x0.24+90	(A min-90):0.24+90	(Stroke:0.76)+70
80	3,000	3,020	780	2,240			
80	4,000	4,020	1,030	2,990			
100	2,500	2,520	800	1,720	(A max-90)x0.29+90	(A min-90):0.24+90	(Stroke:0.71)+70
100	3,000	3,020	940	2,080			
100	4,000	4,020	1,230	2,790			
120	2,500	2,520	770	1,750	(A max-90)x0.28+90	(A min-90):0.28+90	(Stroke:0.72)+70
120	3,000	3,020	910	2,110			
120	4,000	4,020	1,190	2,830			

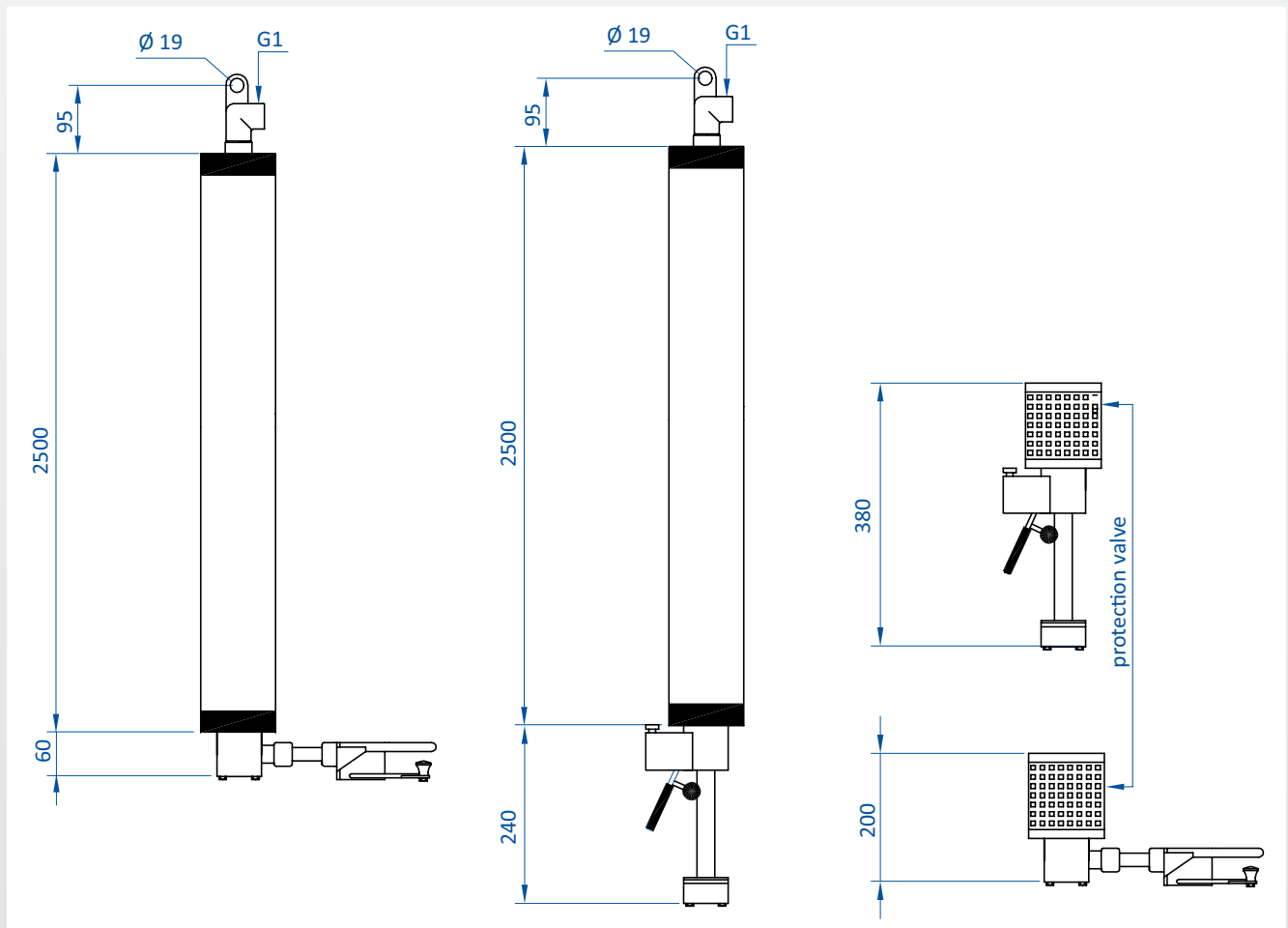
E = You know A max and want to know A min

F = You know A min and want to know A max

G = You know requested stroke and want to know how long the lifting tube must be

* A max = Lifting tube fully relaxed, without vacuum

** A min = Lifting tube fully compressed, with vacuum (block dimension)



Suction shells oval – Basic



Product notes

- > Suction shells made from sheet metal with sealing foam
- > Suitable for handling bags and shrink-wrapped goods and much more
- > Sealing foam can be easily replaced without the need for tools
- > We would be pleased to provide advice on the selection of suitable vacuum cups and to carry out vacuum tests
- > Cups without a safety factor statement must not be used with this lifting tube diameter
- > A safety factor of at least 2.5 is necessary for horizontal handling and at least 4.0 for vertical handling

Technical data

Item no.	Material	Width [mm]	Length [mm]	Suitable replacement foam
SH.ACC.BAC.0023	Steel	115	185	SH.SPP.BAC.0023
SH.ACC.BAC.0024	Steel	125	245	SH.SPP.BAC.0024
SH.ACC.BAC.0025	Steel	150	290	SH.SPP.BAC.0025

Safety factor by lifting tube Ø

Item no.	Ø 60 mm	Ø 80 mm	Ø 100 mm	Ø 120 mm
SH.ACC.BAC.0023	2.6	--	--	--
SH.ACC.BAC.0024	9.1	5.1	3.3	--
SH.ACC.BAC.0025	13	7.3	4.7	3.3

FIPALIFT Basic

Replacement foam for suction shells – Basic

Replacement foam for suction shells – Basic



Product notes

- > Easily replaced without the need for tools if worn out
- > Simply pull the foam out of the suction shell and slide in the new one

Technical data

Item no.	Suitable for	Suitable for suction shell
SH.SPP.BAC.0023	SH.ACC.BAC.0023	Oval 115x185
SH.SPP.BAC.0024	SH.ACC.BAC.0024	Oval 125x245
SH.SPP.BAC.0025	SH.ACC.BAC.0025	Oval 150x290

Suction plates rectangular – Basic



Product notes

- > Rectangular suction plates for direct mounting on the control handle of the FIPALIFT Basic
- > Suitable for handling cartons, boxes and smaller flat products
- > Steel plate with exchangeable gasket made from natural rubber (NR) black
- > Gasket can be easily replaced without the need for tools
- > Cups without a statement of safety factor must not be used with this lifting tube diameter
- > A safety factor of at least 2.5 is necessary for horizontal handling and at least 4.0 for vertical handling
- > The appropriate replacement gaskets are available as accessories for all models

Technical data

Item no.	Design	Width [mm]	Length [mm]
SH.ACC.BAC.0010	Flat	95	200
SH.ACC.BAC.0011	Flat	150	210

Safety factor by lifting tube \varnothing

Item no.	\varnothing 60 mm	\varnothing 80 mm	\varnothing 100 mm	\varnothing 120 mm
SH.ACC.BAC.0010	6.7	3.8	--	--
SH.ACC.BAC.0011	11.1	6.3	4	2.8

FIPALIFT Basic

Cross beams double rigid – Basic

Cross beams double rigid – Basic



Product notes

- > Small cross beams each having two rectangular suction plates 95 mm x 200 mm
- > Suitable for handling large cartons, boxes and medium-sized flat goods
- > Cups without a safety factor statement must not be used with this lifting tube diameter
- > A safety factor of at least 2.5 is necessary for horizontal handling and at least 4.0 for vertical handling
- > The appropriate replacement gaskets are available as accessories for all models

Technical data

Item no.	Width [mm]	Length [mm]
SH.ACC.BAC.0012	200	200
SH.ACC.BAC.0013	200	250
SH.ACC.BAC.0014	200	370
SH.ACC.BAC.0015	200	620

Safety factor by lifting tube \varnothing

Item no.	\varnothing 60 mm	\varnothing 80 mm	\varnothing 100 mm	\varnothing 120 mm
SH.ACC.BAC.0012	13.4	7.6	4.8	3.4
SH.ACC.BAC.0013	13.4	7.6	4.8	3.4
SH.ACC.BAC.0014	13.4	7.6	4.8	3.4
SH.ACC.BAC.0015	13.4	7.6	4.8	3.4

Cross beams fourfold rigid – Basic



Product notes

- > Small cross beams for use with bellows vacuum cups
- > Suitable for handling large cartons, boxes and medium-sized flat goods
- > Levels minor unevenness of the surfaces
- > Cups without a safety factor statement must not be used with this lifting tube diameter
- > A safety factor of at least 2.5 is necessary for horizontal handling and at least 4.0 for vertical handling
- > Vacuum cups are not included in scope of delivery, please see accessories for all models

Technical data

Item no.	Suitable for	Width [mm]	Length [mm]
SH.ACC.BAC.0017	Bellow vacuum cup Ø 75 mm	190	230
SH.ACC.BAC.0018	Bellow vacuum cup Ø 75 mm	235	325
SH.ACC.BAC.0019	Bellow vacuum cup Ø 75 mm	160	320
SH.ACC.BAC.0020	Bellow vacuum cup Ø 115 mm	280	370
SH.ACC.BAC.0021	Bellow vacuum cup Ø 115 mm	330	500

Safety factor by lifting tube Ø (based on the above vacuum cup diameter)

Item no.	Ø 60 mm	Ø 80 mm	Ø 100 mm	Ø 120 mm
SH.ACC.BAC.0017	6.3	3.5	--	--
SH.ACC.BAC.0018	6.3	3.5	--	--
SH.ACC.BAC.0019	6.3	3.5	--	--
SH.ACC.BAC.0020	13.4	7.6	4.8	3.4
SH.ACC.BAC.0021	13.4	7.6	4.8	3.4

FIPALIFT Basic

Cross beam sixfold rigid – Basic

Cross beam sixfold rigid – Basic



Product notes

- > Small cross beams for use with six bellows vacuum cups \varnothing 75 mm
- > Suitable for handling large cartons, boxes and medium-sized flat goods
- > Levels minor unevenness of the surfaces
- > Cups without a safety factor statement must not be used with this lifting tube diameter
- > A safety factor of at least 2.5 is necessary for horizontal handling and at least 4.0 for vertical handling
- > Vacuum cups are not included in scope of delivery, please see accessories for all models

Technical data

Item no.	Suitable for	Width [mm]	Length [mm]
SH.ACC.BAC.0022	Bellow vacuum cup \varnothing 75 mm	170	260

Safety factor by lifting tube \varnothing

Item no.	\varnothing 60 mm	\varnothing 80 mm	\varnothing 100 mm	\varnothing 120 mm
SH.ACC.BAC.0022	9.4	5.3	3.4	--

Hook tool for FIPALIFT Basic

NEW



Product notes

- > Mechanical load-handling attachment for lifting containers or buckets, for example
- > Load-handling attachment e.g. for the lifting lugs of jerrycans
- > The load hook is movable
- > Please note that mechanical gripping tools should be used only in conjunction with the SH.OPT.BAC.0014 safety valve

Technical data

Item no.	Admissible work load [kg]	Weight [kg]
SH.ACC.BAC.0050	25	0.4

Quick-change systems – Basic



Product notes

- > Quick-change system for rapid tool-free replacement of the vacuum cups and gripper systems on the FIPALIFT Basic
- > Operates with a bayonet fitting
- > Ideally suited to frequently changing handling tasks

Technical data

Item no.	Design	Load capacity [kg]
SH.ACC.BAC.0026	Upper	100
SH.ACC.BAC.0027	Lower	100

FIPALIFT Basic

Swivel joint – Basic

Swivel joint – Basic



Product notes

- > Joint for stepless 360° rotation of goods
- > Ideal for repositioning of goods to be lifted, e.g. when loading a machine or palletizing cartons

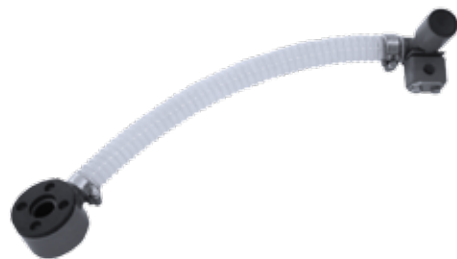
Technical data

Item no.	Pivoting range [°]
SH.ACC.BAC.0029	360

Release valves – Basic



SH.ACC.BAC.0031



SH.ACC.BAC.0032

Product notes

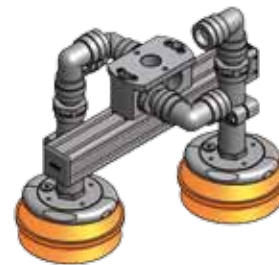
- > Additional valve for rapid lowering of goods to be lifted
- > Particularly suitable for use with large vacuum cups and lighter goods
- > Available for the standard control handle and elongated control handle
- > Vacuum can be released via push button control on the operation unit

Technical data

Item no.	Suitable for
SH.ACC.BAC.0031	Control handle standard
SH.ACC.BAC.0032	Control handle elongated

EOAT Adapter – Basic

SPECIAL SOLUTIONS



Product notes

- > For adapting the End-of-Arm-Tooling toolkit of FIPA on the FIPALIFT Basic
- > Can be used with FIPA XLine and SLine profile and the associated connecting elements
- > Facilitates easy construction of custom solution for non standard goods
- > Four G3/4 connections for vacuum supply to vacuum cups
- > Can also be used on FIPALIFT Smart with Smart-Basic adapter
- > The appropriate EOAT components can be found at www.fipa.com in the End-of-Arm-Tooling section in our End-of-Arm-Tooling catalog

Technical data

Item no.	Material	Weight [kg]	Suitable quick connectors
SH.ACC.BAC.0035	Aluminum anodized	0.351	30.027-G 30.123-G 30.124-G

Application examples with components from the FIPA gripper systems kit

