



PIAB Vacuum Academy

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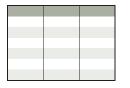
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PVATM

PIAB Vacuum Academy

PIAB VACUUM ACADEMY EMPHASIZES THE BASICS

In industry today there is an accelerating trend toward ever more customized solutions that can be made available at short notice. Product development times and production runs are both becoming shorter. Changes are becoming more sudden and harder to predict.

Competence and willingness to change are being challenged by a never-ending parade of new situations. Training that sharpens skills and broadens perspectives enables your personnel – and your company – to handle more sophisticated assignments while accepting highly qualified responsibilities. This makes it easier for you to develop new functions and work pro-cedures while advancing into new markets.

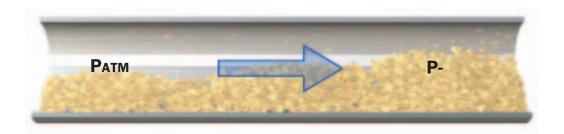
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The PIAB Vacuum Academy trains your company's employees to make sounder pre-purchasing de-cisions, find new fields of applica-tion, develop production process-es and make your business more profitable.

Training courses are held wher-ever PIAB is represented. More-over, they can be held on your company's premises and be adapted to meet special needs whenever you desire.



PRINCIPLES OF VACUUM CONVEYING

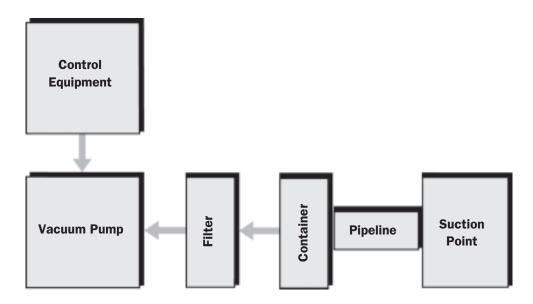


In the field of vacuum conveying technology we speak of vacuum conveyors being used for "sucking" material. What actually happens is that the air is evacuated from the suction pipe and the pressure of the atmosphere pushes the material into the suction pipeline. It is the atmospheric pressure that indirectly performs the work. The stream of air that is formed upon pressure equalization pulls the solid particles

into the pipeline.

All vacuum conveyors work according to the same main principle, as illustrated below. The material is conveyed from a suction point through a pipeline to a container, where the air and the material are separated. The filter cleans the air before it passes through the vacuum source. A control unit regulates the operating sequence.

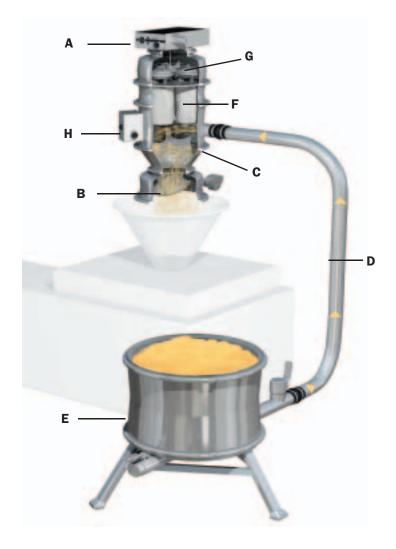
Block Sketch, Vacuum Conveying





A TYPICAL VACUUM CONVEYING SYSTEM

- A. PIAB vacuum pump
- B. Bottom valve
- C. Inlet container
- D. Pipeline (hose or pipe system)
- E. Feed station
- F. Filter
- G. Air shock tanks
- H. Control system



- 1. Vacuum is generated by a compressed air-driven PIAB vacuum pump (A). The pump can easily be automatically controlled. Since it has few moving parts, the pump is virtually maintenance-free.
- 2. The bottom valve (B) is closed, and vacuum is raised in the container (C) and the conveying pipeline (D).
- 3. From the feed station (E) the material is drawn into the conveying pipeline and then on to the container.
- 4. The filter (F) prevents dust and fine particles from being drawn into the pump and escaping into the surroundings.

- 5. During the suction period, the air shock tanks (G) are filled with compressed air.
- 6. When the material container is full, the vacuum pump is stopped. The bottom valve opens and the material in the container is discharged. At the same time, the compressed air in the filter tank is released and cleans the filter
- When the pump is restarted, the process is repeated and a new cycle begins. The suction and discharge times are normally controlled by pneumatic or electrical control systems (H).



MATERIAL HANDLING

MATERIAL FLOW

The material flow is determined by the diameter of the conveying pipeline, the vacuum flow, conveying distance and not least by the characteristics of the material.

The relationship between material flow and vacuum flow is usually stated as phase densities and is a dimensionless quantity. If the phase density is the same as the bulk density, it means that there is no air in the conveying pipeline and that the pipeline is blocked. The converse also applies. If the phase density is equal to zero, there is no material in the conveying pipeline. Between these two limits, a

range of phase densities may occur.

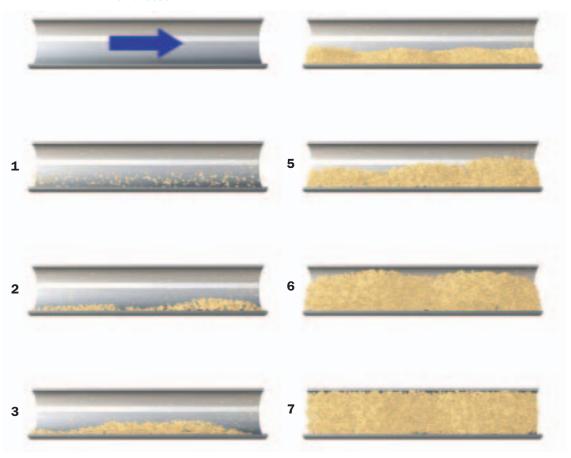
Dense phase means that the material is conveyed in separate plugs in the conveying pipeline. For most materials, the phase density is a factor above ten for dense phase. Some materials can be conveyed in dense phase.

Another conveying phase is "dilute phase". The phase density is usually below ten. Conveying speed in dilute phase is usually >30 ft/s.

The figure below shows conveying phases with different phase densities. From very dilute phase (1), over dense phase (6) to blocked pipeline (7).

* Phase density =
$$\frac{\text{Material flow}}{\text{Vacuum flow}} = \frac{\text{material lb/h}}{\text{conveying air lb/h}}$$

Flow direction



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It is generally the case that in dense phase, because the material moves in the form of plugs, the vacuum level is usually 30–65%, while in dilute phase it is 10–30%.

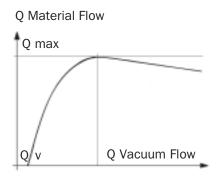
When sizing a conveying installation, it is important to find the optimum conveying phase for a specific material. A common misapprehension is that the greater the vacuum flow, the higher the material flow. The relation between material flow and vacuum flow may, for example, be as shown in the opposite figure. The diagram shows that the maximum material flow Qmax is equivalent to the vacuum flow Qv. When the vacuum flow increases, the material flow will decrease.

When sizing a conveying installation, it is important to find the optimum point of the curve. The only way of ascertaining the position of maximum material flow for a specific product is to experiment with varying degrees of aeration and vacuum flow. For this purpose many manufacturers have special test plants.

MATERIAL CLASSIFICATION

When sizing a conveyor, it is important to determine the fluidity of the material that is to be conveyed. To sum up, the following points should be included in the material classification:

- ► Fluidity/angle of repose
- Bulk density
- Abrasion factor
- Particle
 - size
 - distribution
 - form
 - density
 - hardness
- Moisture sensitivity (hygroscopicity)
- Explosion hazard
- ► Harmfulness/poisonousness

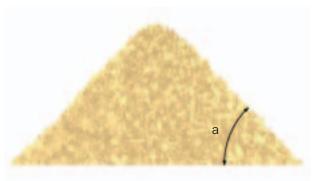


FLUIDITY

The fluidity is one of the most important qualities when the conveying possibilities of a material shall be decided. One way of making a rough assessment of the fluidity is to determine the material's angle of repose by pouring out the material from a height and measuring the angle (a).

A small angle of repose means good fluidity and a large angle of repose, poor fluidity. The factors that determine the fluidity of the material are particle size, geometric shape, tendency to pick up static electricity and degree of moisture sensitivity. Plastic granules generally have good fluidity while corn flour has poor fluidity and is also sensitive to moisture.

Material with poor fluidity can often be fluidized. For fluidization to work, the material must be reasonably fine so that it is lifted by the fluidizing air. If the material consists of coarse particles, fluidization will not be so effective.





BULK DENSITY

The term "bulk density" refers to the weight/volume of a material, in other words, how much one cubic foot of the material weighs. As one cubic foot of powder contains both material and air, the bulk density will vary considerably depending on how closely a particular material is packed. In other words, the same material will have different bulk density values if you weigh a cubic foot of material that has been poured into a beaker and a cubic foot of material that has been shaken and packed. It is therefore important to measure bulk density under conditions that are as similar as possible to the actual conveying conditions.



MOISTURE SENSITIVITY

Different materials are more or less hygroscopic. If test running is carried out on a particular material, it is important that the conditions are kept as similar as possible to those that will apply on installation. A moisture-sensitive material may form lumps that catch in the material intake, stick in the pipeline or block up the filter.



PARTICLES

Individual particle weight, size, distribution, form and hardness are all parameters that determine a material's flow ability and thus its conveying characteristics.

The weight (density and size) of the individual particles determines the vacuum flow that is required to lift the material into the conveyor pipe and move it forward in the pipeline.

The term "particle distribution" refers to how much of various-sized particles, from the smallest to the largest, make up the material's composition.

EXPLOSION RISK

In connection with handling of finely ground material, there may be a risk of dust explosion. Dust explosions can occur when certain types of particles are mixed with air at a certain ratio and a source of ignition is present. Rapid expansion and pressure increase are characteristics of dust explosions.

Dust explosions that occur during conveying of materials are commonly caused by sparks from static electric discharge. You can read more about this in the statute book of the Swedish Board for Occupational Safety and Health AFS 1981:5 concerning dust explosions.

In a vacuum conveyor, the ratio of the air-to-material mixture (phase density) varies and the risk of a dangerous mix cannot be eliminated entirely. The risk of ignition can, on the other hand, be minimized by preventing electrostatic discharge and thus the generation of sparks. This can be achieved by connecting the various parts of the conveyor system to the same earth point (equipotential connection).

Many common materials have a tendency to cause dust explosions. Examples of such materials are given below. A complete list may be found in the abovementioned statute book published by the Board for Occupational Safety and Health.

- ► Aluminium
- ▶ Flour
- Aspirin
- Grain
- Carbon
- ► Iron
- ▶ Coffee

▶ Cork

Nylon

- Sugar
- Cotton
- ▶ Tea



HARMFULNESS AND TOXICITY

A vacuum conveying system is appropriate for conveying harmful materials, as any leakage in the system does not allow the conveyed material to leak out into the surroundings because of the lower pressure within the system.

The air extracted from the system may need to be filtered particularly carefully by means of a special filter or be piped away to a central filter system.





PNEUMATIC CONVEYING SYSTEMS

GENERAL

From a technical point of view, pneumatic conveying is based on conveying of solid particles mixed with a gas, usually air.

By means of pneumatic conveying, solid particles of varying sizes can be conveyed between points, for example, from a storage to a processing machine. Pneumatic conveying depends on access to compressed air or a source of vacuum, a feed device where air is mixed with the solid particles, a conveying pipeline and a receiving device that separates the carrier air from the particles.

PNEUMATIC CONVEYING SYSTEMS ARE DIVIDED INTO THREE CATEGORIES:

- A. Positive-pressure systems, where the material is blown through the conveying pipeline by compressed air.
- B. Negative-pressure systems where the material is "sucked" through the conveying pipeline.
- C. Fluidized beds. The force of gravity is utilized in combination with fluidization.
 - The fluidizing layer of air lowers the friction and makes the material run like a liquid.



В



POSITIVE-PRESSURE CONVEYING SYSTEMS



The advantage of positive-pressure systems is that bulk material can be distributed from one source to several locations through a system of valves.

Usually, positive-pressure systems are divided into low-pressure and high-pressure systems. A high-pressure system has much greater capacity in regard to the quantity of material that can be conveyed and also allows significantly longer conveying distances than are possible with low-pressure systems.

In low-pressure systems (pressure 14.5 psi) bulk material is usually fed in with the help of a rotary valve or screw. The low-pressure system provides a

continuous flow. In the receiving container, the carrier air is filtered out through a filter cartridge.

Positive high-pressure systems (101.5-116 psi) can provide much higher material flows (>150 ton/h) over much longer conveying distances (>1.25 m). In order to avoid leakage through the feed device, the material is put into a blower tank. The valve between the storage silo and the blower tank is closed and compressed air blows out the material. The tank is refilled and the procedure repeated. The carrier air is filtered in the receiving silo.





VACUUM CONVEYING SYSTEMS

With vacuum systems, material can be sucked from several pick-up points and collected at one receiving point. This is the opposite of what happens in positive-pressure systems. Vacuum systems have lower material flows than positive-pressure systems. Maximum conveying distances may, with favourable ma-

terials, be 330-490 ft. The limitation of the conveying capacity is due to the fact that vacuum systems utilize only atmospheric pressure, while in positive-pressure systems considerably higher pressures can be achieved.



FLUIDIZED BEDS

In fluidized beds the air passes through a porous filter material. The passage of air lowers the friction, and gravity causes the material to run like a liquid. Very high material flows can be achieved but the material must have specific properties that allow fluidization. A gentle slope of one or two degrees is required to set the material in motion.





ADVANTAGES - DISADVANTAGES OF DIFFERENT PNEUMATIC CONVEYING SYSTEMS

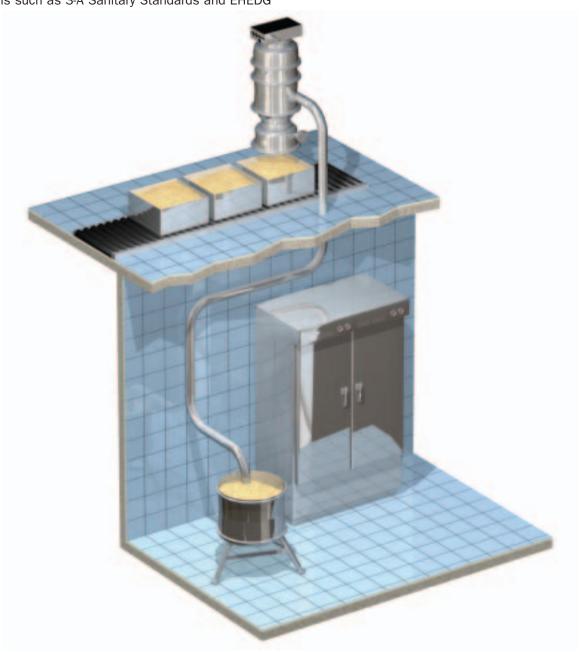
Conveying system	Advantages	Disadvantages
Positive high-pressure system	► Long distance conveying	► Risks of leakage
	▶ High capacities	► Heavy installations
		► Expensive
		components
		Wear on material and
		system
Positive low-pressure system	► Little wear on material	► Limited conveying
	and system	distance
	➤ Continuous flow	► Risks of leakage
TOUT.		► Feeder often needed
Vacuum conveying system	▶ No leakage of material	► Limited conveying
vacaam convoying cyclem	▶ imple to install	distance
		► Limited capacity
2115	➤ Dustless	
	► Easy to control	➤ Usually intermittent operation
Fluidised beds	► Angle of conveying from	▶ Dusty conveying
Tididised Deus	only 2–3° slope	
		➤ Open system
	▶ No moving parts	



HANDLING DRY PRODUCTS HYGIENICALLY

Vacuum can be used at great advantage to convey dry products such as powders and granules. PIAB's vacuum conveyors C21, C33 and C56 have been developed especially for handling dairy, food and pharmaceutical products. Some of the models have been examined by USDA – United States Department of Agriculture, and conform with their guidelines concerning dairy products. Through this, the conveyors also comply with the hygienic standards that organizations such as 3-A Sanitary Standards and EHEDG

European Hygiene Engineering Design Group, have established. USDA works closely together with 3-A, and 3-A works in close cooperation with EHEDG. To manufacture equipment according to these requirements is GMP – Good Manufacturing Practice.
 PIAB's vacuum conveyors are made of acid-proof stainless steel, ASTM 316L, and withstand the most demanding conditions that they may be subjected to.





COMPONENTS OF A VACUUM CONVEYING SYSTEM

A vacuum conveying system always consists of a number of components. The components are suction point, conveying pipeline, collecting container, filter, vacuum pump and control equipment. Support components may be fluidization, pipeline valves, various sack dischargers, weighing equipment, etc.

THE SUCTION POINT



For automatic or semi-automatic systems, a feed station or different types of feeding adapters can be used. A feed station is a special feeding adapter that can mix air with the material and, if necessary, be provided with fluidization.



The suction point can also consist of an aspirated feed nozzle, which entrains extra air to the conveying.



A feeding adapter with adjustable intake for air and material, that can be mounted on, for example, a silo.



CONVEYOR PIPELINE

One of the many advantages of pneumatic conveying systems is that they are simple to install. Friction in pipes and hoses can reduce the material flow considerably. For permanent installation, rigid pipes should always be used. Pipes have lower friction than hoses. A good pipe installation may mean an increase in the material flow so that pump capacity can be reduced and thus lower running costs achieved

COLLECTION CONTAINER

The collection container is the vessel or volume that is placed under vacuum in connection with the suction cycle and in which the material is collected. At the bottom of the container there is a discharge device that opens when the suction cycle is complete and the material flows out and then closes again in preparation for the next suction cycle.

If necessary, the discharge device may be fitted with fluidization for better discharge.

FILTER

The filter separates the conveyed material from the carrier air. If some particles should follow the air up to the filter, they will be filtered away, and the clean air will continue out through the vacuum pump. Most filters are fitted with some kind of cleaning device.

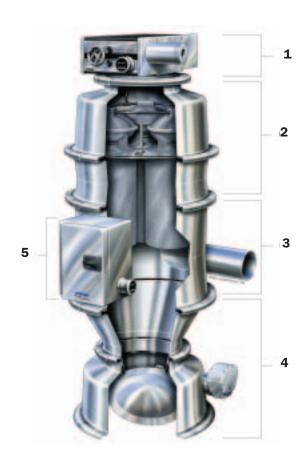
VACUUM PUMP

The heart of the system is the vacuum pump that creates the reduction of pressure or suction that moves the material.

By using a compressed air-driven vacuum pump, a complete explosion-proof unit is achieved, which is important in order to avoid dust explosions. Vacuum pumps driven by compressed air also have the advantage of being virtually maintenance-free, silent and not emitting any heat. They are also easy to control as they react very quickly. The pump can be controlled by means of the compressed-air supply, which means that the pump runs only during the suction period and is at rest, saving energy, at other times.

CONTROL EQUIPMENT

As a vacuum conveyor works intermittently, some form of control equipment that regulates running time, standstill time, discharge, fluidization, etc., is required.



- 1. Pump unit
- 2. Filter unit
- 3. Connection unit
- 4. Bottom valve unit
- 5. Control unit
- **6.** Nylon tubing kit (not in picture)



SYSTEM DESIGN

As mentioned previously, there are many parameters that affect a vacuum conveying system. Naturally, the system design itself is also extremely important. However, as most vacuum conveying systems are unique it is hard to give direct instructions. Certain general basic principles do of course apply and the most important of these are described below

GENERAL

Some general rules to bear in mind when planning a vacuum conveying system are:

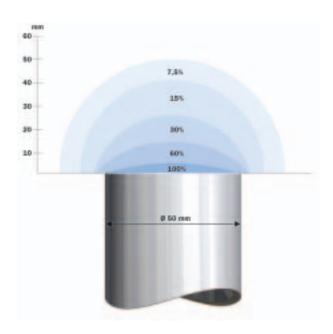
- ► Short conveying distance reduces system and running costs.
- Keep pipe bends to a minimum to reduce system and running costs.
- Avoid running the conveying pipeline on an inclined plane.
- ▶ Use rigid pipes where possible



SUCTION POINT DESIGN

In order to be able to suck material into a conveying pipeline and then convey it, the conveying air must have a certain minimum speed. Most materials need additional air in order to be set in motion. If a system is to function satisfactorily, the feed, i.e., the suction point, must be designed correctly. It is important that the material is placed close to the intake on the conveying pipeline as the suction capacity decreases by the square of the distance.

When the suction point is designed as a feed station, there are normally two valves, one for air and one for the material, which can be controlled to give the right proportions of material and air in the pipeline. Another way of supplying air, particularly with material that is hard to convey, is to fit the feed funnel with fluidization.





AUTOMATIC ASPIRATING VALVE UNIT

With the help of a Y-piece, a vacuum switch and a valve, additional air can be automatically introduced into the conveying pipeline. In the first part of the conveying pipeline, a Y-piece is fitted (exactly where depends on the material). On the open part of the Y-piece, a valve that is controlled by a vacuum switch is fitted. The vacuum switch senses the vacuum level in the conveying pipeline and when the set value is reached, the switch gives a signal that opens the valve and lets air into the system. To protect the con-

veyed material from contamination, the inlet is fitted with a filter.



PIPE DIMENSIONS

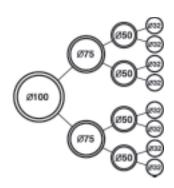
Pipe diameter is of vital importance for the capacity of a conveying system. In principle, the greater the diameter of the pipe, the greater the capacity of the system, provided the speed is kept constant. In practice this means that if you want to increase the capacity, you usually have to overhaul the entire system, including vacuum pump and containers as well as tube dimensions. In certain cases, however, a capacity increase may be made possible with smaller pipes and the same pump. This is due to the fact that it may be possible to move the material in another phase (dense phase). The ratio of the various pipe diameters is shown by the adjacent figure. For example, a pipe with a diameter of 75 mm (3") is equivalent to two pipes with a diameter of 50 mm (2").

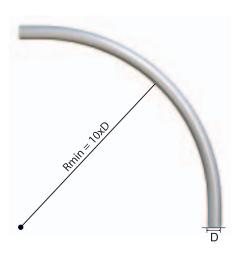
The speed of the material is directly related to the speed of the air in the pipeline. As the pressure in

PIPE BENDS

A large bending radius is one way of avoiding unnecessary wear and pipeline resistance. Hoses are often used in bends so that they can be simply and cheaply replaced when they wear out.

the pipeline falls the closer you get to the conveyor, the speed of the air and the material increases correspondingly. That is why in certain cases stepped pipelines (pipes of increasing diameter) have to be used to keep down the speed of the material so that it is not broken to pieces.



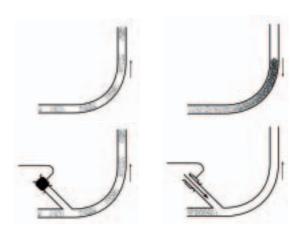


PIPE JOINTS

Pipe joints must be constructed correctly so that material does not build up around the joints. Rounded edges and a good seal are important points to remember.

EMPTYING THE PIPELINE

Vacuum conveying systems can lift materials through relatively large vertical distances, 30-65 ft, and in some cases even higher. As the conveyor works intermittently there is a risk that, when the pump stops and the material falls down, a plug will form at the bottom of the vertical part of the system. To avoid this, the tube has to be emptied from time to time from the beginning of the vertical part right up to the conveyor. This may be achieved by inserting a valve that can be opened to let in air before the rise. This means that no material is conveyed before the rise and all material is discharged from the pipe up to the conveyor.

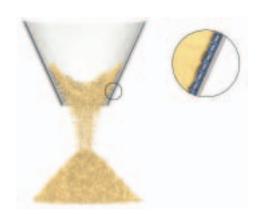


1 and 2 = Without pipeline emptying 3 and 4 = With pipeline emptying

FLUIDIZATION

In cases where the material to be conveyed has poor flow capacity, fluidization may be an option. Fluidization may take place both at the feed station, to ensure supply of material to the conveyor, and in the conveyor container to improve discharge.

Fluidization means that compressed air passes through a porous filter material where it is finely distributed. The finely distributed air creates a cushion or film that reduces the friction quite considerably between material and base. What is more, the air is mixed with the material in such a way that friction is also reduced between the particles in the material, which means that the material "flows like water". Not all materials can be fluidized.



WEIGHING

Checking or weighing how much material has been conveyed may take place according to three main principles. The feed station can measure how much has been taken away, the conveyor container can be weighed to measure how much has reached it, and the receiving container may be weighed to ascertain how much has been discharged. Usually, the last weighing option provides the greatest accuracy. The degree of accuracy that can be achieved with the var-

ious systems is entirely dependent on the properties of the material conveyed and the construction of the system. In cases where the aim is to meter out a certain quantity of material it is best to place special metering equipment between the conveyor and the receiving container. There are many different types of equipment in the market and the properties of the material determine type and make.



REGULATION AND CONTROL

All vacuum conveying systems require some form of control, which may be designed in many different ways depending on industry and application. Control may be fully pneumatic (suitable where there is a risk of explosion, for example), fully electrical or a combination of both. The system may be a separate unit with independent control or part of a larger system where slave units receive signals from the main system.

Normally, vacuum conveying takes place intermittently (in batches) and more or less automatically and a cycle may have the following sequence:

- 1. The vacuum pump starts.
- 2. The bottom valve closes.
- 3. The material is conveyed.
- 4. The vacuum pump stops.
- 5. The filter is cleaned.
- 6. (Fluidization, if any, starts.)
- 7. The bottom valve opens.
- 8. The product is discharged.
- 9. (Fluidization, if any, stops.)

VARIOUS SPECIAL DEVICES

A conveyor may be fitted with a rotary valve so that it can be run continuously. Another method of making a continuous material flow possible is for two conveyors to be run alternately in what is known as a twin set (see fig.).

In a twin set the conveyors are controlled in such a way that while one is sucking the other one is dis-

charging. On changeover there is an overlap period when both conveyors run together for a short time. Sometimes, continuous conveying may be made possible by eliminating the separate container and conveying directly down into a vacuum-proof vessel.



SEVERAL DIFFERENT MATERIALS

It is simple to connect a vacuum conveyor to different feed stations and thus it can convey different materials to one and the same container, but only

one material at a time. If you want to mix different material to a recipe, the system can be fitted with load cells for weighing.

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SYSTEM EXAMPLES

The most common application is to have a conveyor (1), a feeding point (2) and a conveying pipe for the material to be conveyed (3) between point (1) and (2). In order to achieve an even and smooth conveying phase, an aspiration valve unit (4) is sometimes used to open and introduce material-carrier air at regular intervals.

In some applications it is desirable to empty the conveyed material at different points in the production chain. This may be conveying of wheat flour from a loading platform, for example, to three different dough-mixing machines.

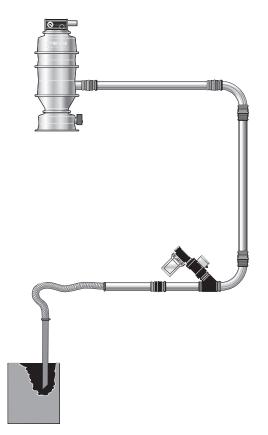




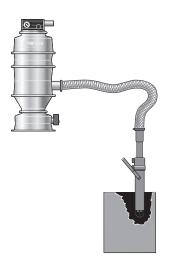


Sometimes one needs to be able to convey different materials from different points of suction to one and the same point of collection in the production chain.

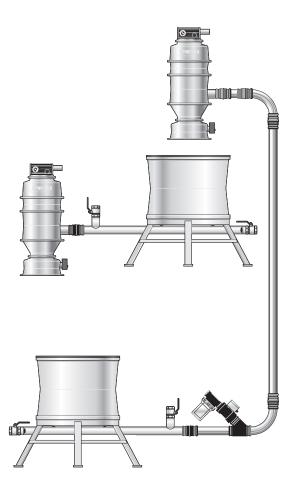
This picture illustrates manual handling at the point of suction by using only one pipe that is entered into the material, with the conveyor located quite far away from that point.



This picture illustrates manual handling at the point of suction by using PIAB's original feed nozzle that is used to control the product-carrier air in the material.

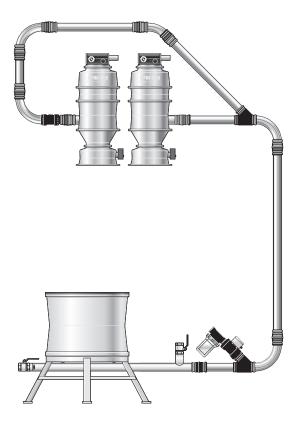


There may be reason for conveying a material in two stages, for example, when the conveying distances are very long, or in applications where the material is to be conveyed up to a considerable height.





A so-called twin installation is used when one wants to convey the material continuously. One of the conveyors then empties the material at the same time as the other conveyor conveys the material, and vice versa.

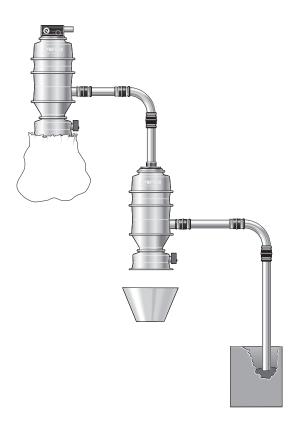


Continuous conveying is achieved by collecting the material in a container (2) that can hold a large volume, at a place that lies before the conveyor (1). This solution is ideal also when one has to convey in a vertical direction. If the vertical distance is very long, the container may be positioned at a point halfway of the conveying distance to make it all work smoothly.





There may be instances when one would like to separate two different materials having differing physical properties. Then the heavier particles fall down into the container (2) while the lighter ones are conveyed to the conveyor (1).



In many cases one has to be very precise when it comes to metering the material. By placing a weighing device (2) under the conveyor (1) it is quite easy to measure how much material is conveyed.





VACUUM PUMPS

MECHANICAL PUMPS

The main principle for all mechanical pumps is that they convey, in one way or another, a certain volume of air from the suction side (the vacuum side) to the exhaust side. In that way they create a vacuum.

Mechanical pumps usually have an electric motor as power source, but it can also be an internal combustion engine, a hydraulic or a compressed air-driven pump.

Fans		Advantages	Disadvantages
	Centrifugal blower	Few moving parts Large suction volumes Strong	Low maximum vacuum Slow start-up and long stop time High noise level
	Regenerative blower	Few moving parts Large suction volumes Low energy consumption	Low maximum vacuum Slow start-up and long stop time High noise level

DISPLACEMENT PUMPS

Displacement	pumps	Advantages	Disadvantages
	Piston pump	Relatively low price	High heat emission Low maximum vacuum
	Membrane pump	Few moving parts Compact Low price	Small suction volumes
	Vane pump	High vacuum and flow Relatively low noise level	Sensitive to contamination Relatively high price High service requirements High heat emission
60	Roots pump	High flow Low service requirements	High price High heat emission High noise level



COMPRESSED AIR-DRIVEN EJECTOR PUMPS

All ejector pumps are driven with pressurized gas, usually compressed air. The compressed air flows into the ejector pump, where it expands in one or more ejector nozzles. When expanding, the stored energy (pressure and heat) is converted into motive

energy. The speed of the compressed air jet increases rapidly, while the pressure and the temperature go down, attracting more air and thereby creating a vacuum on the suction side. Some ejector pumps may also be used to blow air.

Compressed air-driven ejector	pumps	Advantages	Disadvantages
	Single-stage ejector	Low price No heat emission Compact	High noise level Gives either high flow or high vacuum Poor efficiency
	Multi-stage ejector	High efficiency Low energy consumption High reliability Low noise level No heat emission	
	COAX® technology	High efficiency Low energy consumption High reliability Low noise level No heat emission Operates even at low feed pressure Integrated features Modularly built Easy to supplement and upgrade later on Easy to clean	



COMPRESSOR ENERGY CONSUMPTION

According to manufacturers specifications the electrical power consumption is 170 W per scf/min, for a 87 psi compressor. This means that an air-driven pump, which consumes 3.53 scfm, takes 170 x

3.53 = 600 W compressor power (87 psi compressor). With 100% running time of the Maxi L600 vacuum pump the air consumption at 87 psi = 89.0 scfm.

A vacuum conveying test performed at the PIAB AB test facility.	
Vacuum conveyor	C3304-600
Feed pressure at vacuum pump	87 psi
Material	Granulated sugar
Average particle size	200 m
Total conveying length	65 ft
Pipe diameter	3.00 in
Measured capacity	2.0 ton/h
Suction time per cycle	10 s
Discharging time per cycle	5 s
Total cycle time per batch of sugar	15 s

- In the test the suction time (running time of pump) is only 2/3 of the total cycle time, which gives the actual air consumption: 2 x 89/3 = 59 scfm.
- ➤ The power requirements for this test is: 59 x 170 = 10030 = 10 kW. The energy consumption per hour = 10 kWh. Assume that the cost for 1 kWh = \$0.10.
- ► The cost to run the conveyor per hour is: 10 x 0.10 = \$1.00.
- ▶ Based on an eight hour running shift per day, 172 hour per month, the energy cost for this test is: 172 x 1.00 = \$172/month.
- ➤ Comment: In this specific test where two tons of sugar is conveyed every hour, the cost per ton of material is: \$1.00/2.0 ton = \$0.50/ton.

CONCLUSION

- ➤ To run a small-size conveyor C21, at an eight-hour shift per day, the energy cost per month is: Energy cost = \$20–100.
- ➤ To run a mid-size conveyor C33, at an eight-hour shift per day, the energy cost per month is: Energy cost = \$100–200.
- ➤ To run a large-size conveyor C56, at an eight-hour shift per day, the energy cost per month is: Energy cost = \$200–400.



TABLES

In everyday speech, many different expressions and units are used for both pressure and flow. It is important to agree on what is meant by them.

PRESSURE

P=F/A (Force/Area).

SI unit (Système International d'Unités): Pascal (Pa). 1 Pa = 1 N/m².

Common multiple units: MPa and kPa.

Pa (N/m²)	bar	atm (kp/cm²)	torr	psi (lb/in²)
1	0.00001	10.1972x10 ⁻⁶	7.50062x10 ⁻³	0.145038x10 ⁻³
100 000	1	1.01972	750.062	14.5038
98 066.5	0.980665	1	735.559	14.2233
133.322	1.33322x10 ⁻³	1.35951x10 ⁻³	1	19.3368x10 ⁻³
6 894.76	68.9476x10 ⁻³	0.145038x10 ⁻³	51.7149	1

Table No. 1

1 torr = 1 mm HG at 0 $^{\circ}$ C, 1 mm column of water = 9.81 Pa

PRESSURE ABOVE ATMOSPHERIC

kPa	bar	psi	atm (kp/cm²)
1,013	10.13	146.9	10.3
1,000	10	145	10.2
900	9	130.5	9.2
800	8	116	8.2
700	7	101.5	7.1
600	6	87	6.1
500	5	72.5	5.1
400	4	58	4.1
300	3	43.5	3.1
200	2	29	2
100	1	14.5	1
0	0	0	0

Table No. 2

PRESSURE BELOW ATMOSPHERIC

	kPa	mbar	torr	-kPa	-mmHg	-inHg	% vacuum
Sea level	101.3	1,013	760	0	0	0	0
	90	900	675	10	75	3	10
	80	800	600	20	150	6	20
	70	700	525	30	225	9	30
	60	600	450	40	300	12	40
	50	500	375	50	375	15	50
	40	400	300	60	450	18	60
	30	300	225	70	525	21	70
	20	200	150	80	600	24	80
	10	100	75	90	675	27	90
Absolute vacuum	0	0	0	101.3	760	30	100

Table No. 3



CHANGE IN ATMOSPHERIC PRESSURE IN RELATION TO ALTITUDE (HEIGHT ABOVE SEA LEVEL)

A vacuum gauge is normally calibrated with normal atmospheric pressure at sea level as a reference, 14.7 psi, and is influenced by the surrounding atmospheric pressure in accordance with the table below.

The vacuum gauge shows the differential pressure between atmospheric pressure and absolute pressure. This means that the gauge shows what vacuum level is available at different heights.

ATMOSPHERIC PRESSURE

	Barometric pressure	;	The reading on the vacuum gauge at 14.7 psi					
mmHg	psi	Equivalent ft above sea level	18 -inHg	22.5 -inHg	25.5 -inHg	27-inHg	29.7 -inHg	
593	11.4	6,562	11.7	16.2	19.2	20.7	23.4	
671	12.9	3,281	14.8	19.4	22.4	23.9	26.6	
690	13.3	2,553	15.6	20.1	23.1	24.6	27.3	
700	13.5	2,149	16.0	20.5	23.5	25.0	27.7	
710	13.7	1,788	16.4	20.9	23.9	25.4	28.1	
720	13.9	1,532	16.8	21.3	24.3	25.8	28.5	
730	14.1	902	17.2	21.7	24.7	26.2	28.9	
740	14.3	656	17.6	22.1	25.1	26.6	29.3	
750	14.5	364	17.9	22.4	25.4	26.9	29.6	
760	14.7	0	18.0	22.5	25.5	27.0	29.7	

Table No. 4*) at normal barometric pressure.

FLOWS

Flows, volume per unit of time. Quantity designations: Q, q, = V/t (volume/time).

SI Unit: cubic metres per second (m³/s).

Common multiple units: scfm, I/min, I/s, m³/h.

m³/s	m³/h	I/min	I/s	ft³/min (scfm) *
1	3,600	60,000	1,000	2,118.9
0.28x10 ⁻³	1	16.6667	0.2778	0.5885
16.67x10 ⁻⁶	0.06	1	0.0167	0.035
1x10 ⁻³	3.6	60	1	2.1189
0.472x10 ⁻³	1.6992	28.32	0.4720	1

Table No. 5 *) 1 ft » 0.305 m

DISPLACEMENT FLOW VS FREE AIR FLOW

Units			Vacuum level -inHg									
		0	0 3 6 9 12 15 18 21 24 27									
Displacement flow	cfm	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	
Free air flow	scfm	2.16	1.94	1.73	1.51	1.30	1.08	0.86	0.65	0.43	0.22	

LEAKAGE FLOWS

The table below shows the leakage flow at different vacuum levels through an opening of 1 in².

Vacuum level -inHg	Leakage flow cf/m and in ²
3.0	167
6.0	222
9.0	253
12.0	268 *

Table No. 6 * From about 13.0 to 29.5 -inHg the flow is constant.



PRESSURE DROP IN COMPRESSED AIR HOSES

When installing compressed air hoses it is important that the dimension (diameter) and length do not lead to excessive pressure drops. PIAB vacuum pumps are supplied with recommended hose dimensions that will not cause excessive pressure drops at lengths below 6.5 ft.

In cases when the pressure drop has to be calculated, the formula below can be used.

 Δ P = Pressure drop in psi

qv = Flow in scfm

d = Inner diameter in in.

L = Length of compressed air hoses in ft

P1 = The absolute starting pressure in psi

$$\Delta P = \frac{6.82 \times 10^{-4} \times qv^{1.85} \times L}{d^{5} \times P1}$$

$$d = \left(\frac{6.82 \times 10^{-4} \times qv^{1.85} \times L}{\Delta P \times P1}\right)^{0.2}$$

WEIGHT

	kg	g	0Z	lb		
1 kg	1	1000	35.27	2.205		
1 g	0.001	1	0.03527	0.002205		
1 oz	0.02835	28.35	1	0.0625		
1 lb	0.4536	453.6	16	1		

FORCE

Force	
1 N =	0.10197 kp
1 kp =	9.8066 N
1 N =	0.2248 lbf
1 lbf =	4.4482 N

TEMPERATURE

Melting point of ice	Boiling point of water at 29.9 -inHg	Absolute zero
0°C	100°C	273.15°C
32°F	212°F	459.67°F
273.15K	373.15 K	OK

 $\mathcal{F} = 1.8(\mathcal{C}) + 32$



PARTICLE AND FILTER PORE SIZE

mesh micron inches							
4	5205	0.2030					
8	2487	0.0970					
10	1923	0.0750					
14	1307	0.0510					
18	1000	0.0394					
20	840	0.0331					
25	710	0.0280					
30	590	0.0232					
35	500	0.0197					
40	420	0.0165					
45	350	0.0138					
50	297	0.0117					
60	250	0.0098					
70	210	0.0083					
80	177	0.0070					
100	149	0.0059					
120	125	0.0049					
140	105	0.0041					
170	88	0.0035					
200	74	0.0029					
230	62	0.0024					
270	53	0.0021					
325	44	0.0017					
400	37	0.0015*					
550	25	0.0009					
800	15	0.0006					
1250	10	0.0004					
	5	0.0002					
	1	0.000039					
* Threshold of visibility							



THREAD SYSTEMS

1. ISO THREAD

Cylindrical Metric thread, designated with the letter M. Example: M5.

Cylindrical Inch thread (also called Unified thread): designated with the letter UNF. Example: 10-32UNF.

2. BSP THREAD

(British System of Pipe threads):

The threads have a 55° profile angle and are dimensioned in inches.

Cylindrical thread is designated with the letter G.

Example: G 1/8".

3. DRY SEAL THREAD

(American system of pipe threads):

The dry seal system consists of cylindrical and conical pipe threads. The threads have a 60° profile angle and are sealed without packing or seal rings (please note that when these are used in other combinations of thread systems, "sealing" is not applicable). The dimensions are given in inches and Pl-AB's catalog uses the letters NPT and NPSF:

Conical thread is designated NPT.

Example: 1/8" NPT

Cylindrical thread is noted as the letters NPSF.

Example: 1/8" NPSF

COMPATIBILITY OF DIFFERENT THREAD SYSTEMS

	M5 male	M5 female	G1/8" male	G1/8" female	G1/4" male	G1/4" female	G3/8" male	G3/8" female	G1/2" male	G1/2" female	G3/4" male	G3/4" female	G1" male	G1" female	G2" male	G2" female
10-32UNF	+	+++														
female or male																
1/8" NPSF female			+++													
1/8" NPT female or male			_	+												
1/4" NPSF female					+											
1/4" NPT female or male					_	_										
3/8" NPSF female							_									
3/8" NPT female or male							_	_								
1/2" NPSF female									+							
1/2" NPT female or male									_	+++						
3/4" NPSF female											+					
3/4" NPT female or male											_	+++				
1" NPT fe- male or male													1	_		
2" NPT female or male															_	_

+++ Fits

+ Fits with short thread

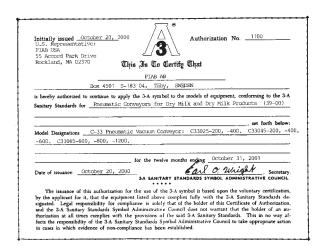
Does not fit



INTERNATIONAL STANDARDS

3-A

- ▶ The objective of the 3-A Sanitary Standards is to formulate standards and accepted practices for equipment and systems used to produce, process and package milk, milk products and other perishable foods or comestible products. These standards are developed through the cooperative efforts of local, state and federal sanitarians, equipment manufacturers and equipment users. The ultimate goal is to protect dairy and food products from contamination and to ensure that all product contact surfaces can be mechanically cleaned (CIP) or easily dismantled for manual cleaning, and when necessary, dismantled for inspection.
- ➤ 3-A Sanitary Standards are developed to detail the sanitary requirements for a specific type of equipment. Specifications include material selection (FDA compliance), design and fabrication for that type of equipment.
- ➤ 3-A Accepted Practices are guidelines for entire systems and include the same sanitary criteria as 3-A Sanitary Standards, in addition to installation criteria where appropriate.
- ▶ When a vacuum conveyor is classified as a hygienic device by 3-A, a certificate is obtained to the effect that the "3-A" symbol may be placed on the device. This symbol shows that the device is designed for consumer products that demand a very high degree of hygiene. This certificate is updated annually.



USDA

- ▶ United States Department of Agriculture is an authority that, among other things, reviews and approves equipment intended for processing dairy products such as dry milk and dry milk products. The USDA section intended for reviewing equipment for dairy products is called USDA Dairy Grading Branch.
- ▶ All included materials in a product that is examined and recognized by USDA are also recognized by the organization FDA Food and Drug Administration. USDA and FDA work in close cooperation. USDA and 3-A also work in close cooperation.
- ➤ A vacuum conveyor accepted by USDA Dairy Grading Branch complies with the strictest safety requirements for health in regard to conveying of dairy, food and other farm products.
- PIAB manufactures and markets a series of vacuum conveyors that have been examined and recognized by USDA.



PVA™ PIAB VACUUM ACADEMY



EHEDG

- ► The European Hygiene Engineering Design Group.
- ▶ In the European directives it is stated that all handling of food products, packaging, processing, etc., shall be carried out with hygiene as a priority.
- ▶ EHEDG, with the help of the European Commission, introduces guidelines that specify how the handling of food products shall be carried out. (It is the same in the USA where USDA and FDA help 3-A to introduce sanitary standards.)
- ▶ For many years EHEDG has worked closely with 3-A, which in turn works in close cooperation with USDA. To manufacture devices according to these requirements is GMP – Good Manufacturing Practice and GAP – Good Agricultural Practice.

FDA

- ➤ Food and Drug Administration releases "CFR = Code of Federal Regulations" which is a set of regulations describing material of equipment that can be used in contact with pharmaceutical, dairy, food and farm products.
- ► PIAB's USDA series of vacuum conveyors contain nothing but materials that agree with the guidelines of FDA.
- ► FDA works in close cooperation with both USDA and 3-A.

CIP

- Clean In Place is a method by which tanks and piping in processing plants are automatically washed by re-circulating detergent and rinse solutions. CIP means cleaning of the device without moving or disassembling it.
- ➤ The system provides reservoirs for detergent and rinse solutions as well as pumping and heating capabilities for the solutions. Computer control handles the program sequences of the washing and rinsing steps.
- ➤ The process is used to ensure that production lines, vessels and reactors are free of inorganic and organic contaminants.
- ▶ PIAB's vacuum conveyors must be manually disassembled before cleaning, and therefore they cannot be used in processes that require fully automatic CIP procedures.

GMP

- Good Manufacturing Practice is a guideline implemented to assure quality, effectiveness and safety of pharmaceutical products. It concerns the matter of "building in" quality rather than testing the quality.
- ➤ GMP is designed to minimize the risks involved in any pharmaceutical production that cannot be eliminated through testing the final product.
- ➤ GMP covers all aspects of production from the initial materials, premises, equipment, training and personal hygiene of staff.
- ► PIAB's USDA series of vacuum conveyors are designed for use in production environments suitable for manufacture of pharmaceuticals.

IAFP

➤ The International Association for Food Protection (formerly IAMFES) issues the 3-A Sanitary Standards and 3-A Accepted Practices that are standards for equipment used mainly in the dairy industry.

CE MARKING OF MACHINES

- Definition of machine:
 - At least one part with a driving function
 - PIAB vacuum pump.
 - At least one moving part bottom valve.
 - A unit that controls the machine
 - PIAB control unit.
- ➤ CE marking originates from a European set of regulations to make sure that machines comply with essential health and safety requirements.
- PIAB's vacuum conveyors are CE marked in accordance with European Machine Directive 98/ 37 EC.



ENCLOSURE CLASSIFICATIONS FOR ELECTRIC EQUIPMENT

ENCLOSURE CLASSIFICATIONS FOR ELECTRIC EQUIPMENT

Enclosure classifications for electric equipment according to Swedish standard SS IEC 529. The symbols have the form of IPxy.

- ▶ The first digit (x) denotes the degree of protection that the enclosure gives to human beings as well as to what is present inside.
- ➤ The second digit (y) denotes the degree of protection that the enclosure gives against damages due to penetrating water.

PROTECTION AGAINST SOLID FOREIGN OBJECTS (X)

0	No protection	
1	Protected against solid foreign objects of 50 mm diameter and greater	Body part, e.g., hand, but no protection against deliberate penetration. Solid foreign objects of 50 mm diameter and greater.
2	Protected against solid foreign objects of 12 mm diameter and greater	Fingers, etc., that are no longer than 80 mm. Solid foreign objects of $12 \ \text{mm}$ diameter and greater.
3	Protected against solid foreign objects of 2.5 mm diameter and greater	Tools, wires, etc., of a diameter or thickness that exceeds 2.5 mm. Solid foreign objects of 2.5 mm diameter and greater.
4	Protected against solid foreign objects of 1.0 mm diameter and greater	Wires or strips of a diameter or thickness that exceeds 1.0 mm. Solid foreign objects of 1.0 mm diameter and greater.
5	Protection against dust	Dust shall not penetrate in a quantity to interfere with satisfactory operation.
6	Dust tight	Dust cannot penetrate.

PROTECTION AGAINST PENETRATION OF WATER (Y)

0	No protection	
1	Protection against vertically falling water drops	Vertically falling water drops shall have no harmful effects.
2	Protection against vertically falling water drops when enclosure is tilted up to 15 degrees	Vertically falling water drops shall have no harmful effects when the enclosure is tilted at any angle up to 15 degrees on either side of the vertical axis.
3	Protection against spraying water	Water sprayed at an angle up to 60 degrees on either side of the vertical axis shall have no harmful effects.
4	Protection against splashing water	Water splashed from any direction against the enclosure shall have no harmful effects.
5	Protection against water jets	Water projected in water jets from any direction against the enclosure shall have no harmful effects.
6	Protection against powerful water jets	Water projected in powerful water jets from any direction against the enclosure shall have no harmful effects.
7	Protection against the effects of temporary immersion in water	Ingress of water in quantities causing harmful effects shall not be possible under standardized pressure and time.
8	Protection against the effects of continuous immersion in water	Ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions that are to be declared by the manufacturer.



APPLICATION FORM FOR VACUUM CONVEYORS

APPLICATION FORM FOR VACUUM CONVEYORS NO:

Representative					
Customer:		Contact:			
Address:					
Country:	Tel:		Fax:		
Material information					
Material:		Chemical formula:			
Density:	lb/cf	Bulk density:		lb/cf	
Particle size: Max in Min	in	Majority between:		μm	
Is the material abrasive?		Other special character	istics:		
Angle of repose:		Fluidisation:			
Flowability: p free flowing p bridging p oth	ner information:				
The material is: p static p explosive p inf	lammable p toxic p aggressiv	ve in regard to:			
Installation					
Capacity: ton/h	ton/2	24 h ton/shift		shift = h	
Conveying distance: ft tot.	Horizontally:	ft	Vertically:	ft	
Number of bends: pcs	Temperature of material:	°F Ambient temperature:		°F	
Operating time: h/day	The material will be picked	up from: p bag p barrel	p silo p hopper		
Other solution:		Receiver:			
The installation is: p indoors p outdoors p both indoors and outdoors					
The operation is: p manual p automatic	p semi-automatic				
Other information:					

SYSTEM SKETCH:



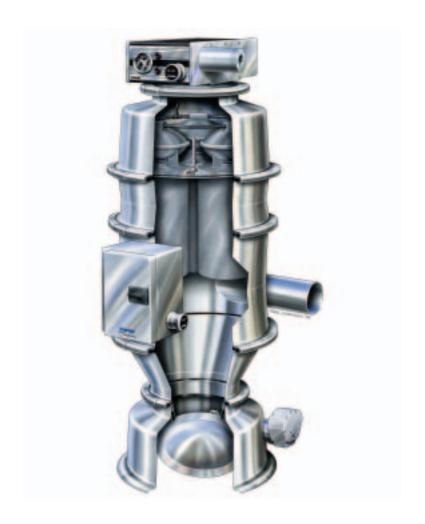
Conveyors C

Vacuum is used with great advantage in order to convey dry powder products through dedicated pipe systems. PIAB's vacuum conveying systems are built of strong components of high quality. Our objective is to offer solutions that help our customers raise their productivity. Production of food, pharmaceuticals and chemical products demands the highest possible degree of safety as to hygiene and operation. PIAB's new series of vacuum conveyors has been developed as an answer to the severe requirements of operational safety and hygiene in the food, pharmaceutical and chemical industries.

PIAB CONVEYORS C, INTRODUCTION	Д1
ADVANTAGES WITH PIAB CONVEYORS C	
WE TEST YOUR POWDERS	
SELECTING A CONVEYOR	
HOW TO ORDER	
CONVEYORS C	
Complete	48
Conveyors C21	90
Conveyors C33	124
Conveyors C56	152
Control Units	
Modules	
Accessories	



Vacuum conveying – an ingenious way of moving powders and granules.



PIAB's vacuum pumps are the heart of the vacuum conveying system.





PIAB CONVEYORS C, MODELS C21, C33 AND C56

AKE A LEAP AHEAD OF THE CROWD!

Vacuum can be used at great advantage to convey dry powder products in exclusively designed pipe systems. Production of foodstuff, pharmaceutical and chemical products demands the highest possible safety in terms of hygiene and operation. PIAB's new series of vacuum conveyors have been developed to meet the strict demands of operational safety and hygiene in the food, pharmaceutical and chemical industries. USDA - United States Department of Agriculture, has examined some of our models and therefore these conveyors meet the requirements of the guidelines for handling of dairy products. Through this, the conveyors also conform to the hygienic standards implemented by organizations such as 3-A Sanitary Standards and EHEDG -European Hygiene Engineering Design Group. For further information on the above-mentioned organizations, please see the special chapter further back in the catalog.



USDA spans the distance from the farm to your table!

INCREASE YOUR PRODUCTIVITY

- Optimized design for highest possible hygiene.
- Few moving parts to ensure a minimum of maintenance.
- Easy to disassemble/assemble and clean.
- Modular design for easy adaptation to your unique production environment.
- USDA Hygienic safety.
- ► FDA Material used is in accordance with the requirements of FDA.
- 3-A Hygienic safety.
- ► EHEDG Hygienic safety.
- GMP Hygienic safety.
- ▶ PIAB's vacuum pumps for high operational safety and low energy consumption.
- Designed for the food and pharmaceutical industries.
- ▶ Steel quality ASTM 316L Market requirement.



ADVANTAGES WITH PIAB CONVEYORS C

PERFECT FOR POWDERS AND GRANULES

Industries that produce foodstuff, pharmaceuticals and chemical products have discovered the advantages of vacuum conveying. PIAB, which has developed vacuum conveying systems for 30 years, is the leader of the industry. We provide the solutions to your conveying problems!



In manual handling the operators are subjected to heavy lifts and dusty premises.

FRIENDLY – BOTH TO YOUR HEALTH AS WELL AS TO THE ENVIRONMENT

Different powders require different vacuum levels in order to be conveyed. With PIAB conveyors C you just set the energy consumption exactly according to the prevailing conditions.

FROM 0 TO 65 FEET IN ONE SECOND

Time is money. The vacuum technology offers you powder conveying at express speed. Up to 100 feet long systems, the sum of vertical and horizontal conveying.

15 TONS PER HOUR

15 tons per hour have been measured at short distance tests with a PIAB conveyor C under favorable conditions.



In a vacuum conveying system, the conveying is fully sealed off from the surrounding environment, which means a working environment without heavy lifting, dust or other contaminations.

EASY TO INSTALL ANY PLACE

Our systems can be easily adapted to your production environment thanks to few components, small dimensions and low weight. The modular system facilitates the installation. The basic unit is delivered on a turn-key basis. You just have to connect compressed air!

DURABLE MATERIAL

The conveyors C are made of stainless, highly polished steel (ASTM 316L). The material is acid-proof and has very strong characteristics. We offer a full 5-year guarantee (filter and wear parts excluded.)

RELIABLE AND EASY TO MAINTAIN

Our systems require a minimum of maintenance. They are easy to clean, and filter cleaning is automatic. Operation and control are fully pneumatic in standard design.

OPERATIONAL SAFETY

The design of the conveyor and PIAB's vacuum pumps offers the highest possible operational safety.

HYGIENE

The conveyors C are, first and foremost, adapted to the food and pharmaceutical industries.

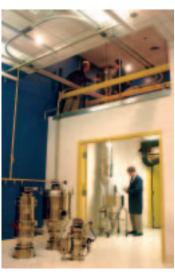


WE TEST YOUR POWDERS

In our test facility different conveying distances and materials are tested in order to simulate your requirements and applications. The test results are available at your PIAB distributor. You can rest assured to get the optimum dimensioning of your installation, as well as the proper accessories and control system. PIAB is always nearby as PIAB is located all over the world with test center facilities in Asia, North America and in Europe.



Test facility at PIAB AB, Sweden.



Test facility at PIAB USA, Inc. USA.



Test facility at PIAB Vakuum AG, Switzerland.

EXAMPLE OF MATERIALS THAT HAVE BEEN TESTED BY PIAB

We can convey all sorts of products; fine powder, granules, dry, wet, sticky, dusty etc. Below is a short list showing examples of materials which have been tested in our test facilities.

Ask your nearest distributor for questions about your material. To find your local distributor, please visit www.piab.com or see the back cover of this catalog.

Consumer/food	Pharma/chemical	Others
Cereal	Capsule	Aluminium oxide
Cheese powder	Carbon, activated	Bronze (granules, powder)
Cocoa (powder, beans)	Clay powder	Calcium cloride
Coffee (ground and beans)	Cobalt	Glue tablets
Detergent	Corn flour	Gun powder
Egg yolk powder	Gelatine powder	Limestone
Milk powder	Glass blast powder	Pet food (pellets)
Rice, puffed	Plastic granules	Sand
Sugar (granulated, icing)	PVC powder	Saw dust
Tea	Silica gel	Silicium carbide
Wheat flour	Tablets	Talcum
Yeast	Titanium	Wood fluor



SELECTING A CONVEYOR

EXAMPLE OF CONVEYORS

Model	Pm figures
C2100-64	1-2
C2101-100	3-5
C2102-100	3-5
C2104-200	5-10
C2102S-100	3-5
C2104S-200	5-10
C3302-400	10-20
C3304-400	10-20
C3304-600	20-30
C3306-600	20-30
C3306-800	30-40
C3302S-400	10-20
C3304S-400	10-20
C3304S-600	20-30
C3306S-600	20-30
C3306S-800	30-40
C5602-800	30-40
C5604-800	30-40
C5604-1200	40-60
C5606-1200	40-60
C5606-1600	60-80



PM FIGURE, CONVEYING DISTANCE AND CAPACITY

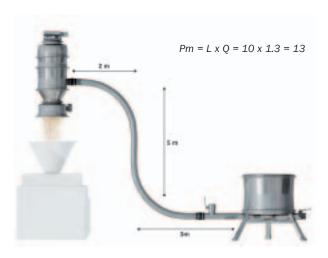
Power requirement (Pm) is the product of the total conveying distance (L) in metres and the capacity (Q) in tons/hour. L = the sum of the horizontal (L_h) and the vertical conveying distance (L_v) .

 $Pm = L \times Q$

This applies when L is 4-30 metres, at bulk densities (B) = 0.5-1.8 ton/m³, as well as when the particle size is < 5 mm.

When the Pm figure has been calculated, one compares the recommended Pm value in the table.

EXAMPLE OF HOW TO SELECT A STANDARD CONVEYOR





PIPE DIMENSIONING

These recommendations apply at conveying distances 4 < L < 30 metres. At conveying distances > 30 metres, please contact PIAB.

In the case of heavier powders with a bulk density (B) > 1 ton/m3 smaller pipe dimensions should be chosen, and for lighter powders < 1 ton/m3 bigger

Model	B > 1 ton/m ³	B < 1 ton/m³
C2100-64	25	25
C2101-100	32	40
C2102-200	32	40
C2104-200	32.40	51
C3302-400	40	51
C3304-400	40	51
C3304-600	51	76
C3306-600	51	76
C3306-800	51	76
C5602-800	51	76
C5604-800	51	76
C5604-1200	51.76	102
C5606-1200	51.76	102
C5606-1600	76	102

pipe dimensions should be chosen.

NOTE! The bends should be as few as possible and should have a radius of at least 10 pipe diameters = 10x50 = 500 mm to make the conveying of powder run smoothly.

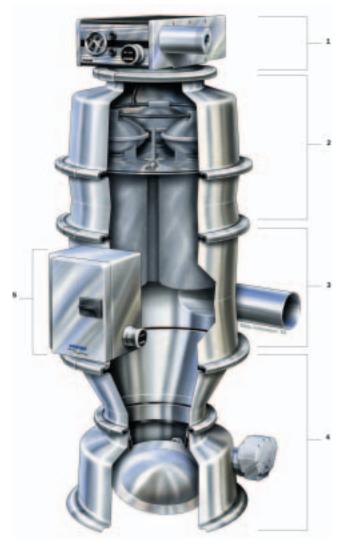
THE CONVEYOR BUILD-UP

PIAB's conveyor C is built of different functional units, 1–5, where each unit offers a number of different choices such as filter material, gasket material, type of connection, control possibilities, etc. These choices are decisive as to how sophisticated the final function of the conveyor will be. Your PIAB representative will be glad to help you when making your choice. PIAB's conveyors C are available in three different sizes, C21, C33 and C56.

UNITS

Figures 1–5 below show the functional units that can be chosen.

- 1. Pump unit
- 2. Filter unit
- 3. Connection unit
- 4. Bottom valve unit
- 5. Control unit





HOW TO ORDER

When building a vacuum conveyor, it is necessary to notice the following:

- Performance of the conveyor C.
- Special demands such as USDA, ATEX or FDA requirements.
- Take into consideration the material of sealings, fluid cones and type of filter.

Properties of different materials used in PIAB vacuum conveyor sealings				
	Synthetic rubber			
Term	Nitrile rubber	Silicone rubber	Fluorine rubber	Definition of numbers
Notification	The Nitrile rubber is designated/1 in the PN	The Silicone rubber is designated/2 in the PN	The Fluorine rubber is ordered separately	
Abbrevation	NBR	Q	FPM	1 = Not recommended
Trade name (common)	Perbunan Krynac	Elastosil Silopren	Viton Fluorel	2 = Moderate to severe effect. The material may be used to a certain extent in conjunction with the indicated behavior of chemicals if the contact period is short. Permanent contact will, however, destroy the material. The indicated materials have consequently a limited field of operation.
				3 = Little to minor effect. The material will probably give satisfactory results but will sooner or later be destroyed by the indicated behavior of chemicals.
Characteristics				4 = Recommended. The material is unlikely to be destroyed by the indicated behavior of chemicals.
Color	Black	White	Green	
Upper temperature limit	+257 °F	+347 °F	+392 °F	
Lower temperature limit	−4 °F	−22 °F	+5 °F	
FDA	Yes	Yes	No	
Antistatic	Yes	No	No	
Resistance to				Comment
Wear	3	1	2	For more specific information about a typical material, please contact PIAB.
Weather and ozone	1	4	4	
Aging due to heat	3	4	4	
Hydrocarbon	4	2	4	
Hydrolysis	4	3	4	
Acids	2	1	3	
Basicity	3	2	2	

The capacity requirements decide the pump. The pump unit is the driving force of the conveyor and is available in different sizes.

Pm figure	Pump unit	Part No.
1-2	Vacuum pump PS6610 Si32-3x2	01.17.443
3-5	Pump unit MAXI L100	01.06.812
5-10	Pump unit MAXI L200	01.03.878
10-20	Pump unit MAXI L400	01.03.879
20-30	Pump unit MAXI L600	01.03.880
30-40	Pump unit MAXI L800	01.03.881
40-60	Pump unit MAXI L1200	01.03.882
60-80	Pump unit MAXI L1600	01.03.883



▶ The material characteristics; the characteristics of the product, such as particle size, bulk density, possible tendency to be adhesive, abrasive, etc., are, together with the pump unit, the critical point when choosing a filter unit.

	Selection of FILTER UNIT corresponding to	selected l	PUMP UNIT	and powd	er PARTICI	LE SIZE.			
	G = powder with particle size >25 μm (granules) P = powder with particle size >10 μm FP = powder with particle size >5 μm UFP = powder with particle size >0.5 μm H = USDA accepted unit	Pump PS6610	Pump unit Maxi L100	Pump unit Maxi L200	Pump unit Maxi L400	Pump unit Maxi L600	Pump unit Maxi L800	Pump unit Maxi L1200	Pump unit Maxi L1600
	Filter unit 2100 Gore Sinbran	Р							
	Filter unit 2101 Textile		G						
	Filter unit 2102 Textile		Р	G					
17	Filter unit 2104 Textile		FP	Р	G				
S	Filter unit 2101 Gore Sinbran		Р	G					
Filter units C21	Filter unit 2102 Gore Sinbran		FP	Р	G				
ē	Filter unit 2104 Gore Sinbran		UFP	FP	Р				
Ē	Filter unit 2102 Gore Sinbran, Ext.		FP H	P H	G H				
	Filter unit 2104 Gore Sinbran Ext.		UFP H	FP H	P H				
	Filter unit 3302 Textile			Р	G				
	Filter unit 3304 Textile			Р	Р	G			
	Filter unit 3306 Textile			FP	FP	Р	G		
က	Filter unit 3302 Gore Sinbran			FP	Р	G			
33	Filter unit 3304 Gore Sinbran			UFP	FP	Р	G		
its	Filter unit 3306 Gore Sinbran				UFP	FP	Р	G	
Filter units C33	Filter unit 3302 Gore Sinbran Ext.			FP	Р	G			
ige				Н	Н	Н			
"	Filter unit 3304 Gore Sinbran Ext.			UFP	FP	Р	G		
				Н	Н	Н	Н		
	Filter unit 3306 Gore Sinbran Ext.				UFP	FP 	Р	G	
	FIL				Н	Н	Н	Н	
92	Filter unit 5602 Textile				P	G			
ပိ	Filter unit 5602 Gore Sinbran				FP	P	G		
Filter units C56	Filter unit 5604 Textile				FP	P	G	G	
n Je	Filter unit 5606 Textile				FP	FP	P	P	G
H H	Filter unit 5604 Gore Sinbran				UFP	FP	P	Р	G
	Filter unit 5606 Gore Sinbran				UFP	FP	FP	UFP	Р

▶ The application and the pipe system decide the connection unit.

There are two different connection units to choose from: with or without 3-A flange on the connection pipe.

▶ The material features and application requirements are the critical point when choosing a bottom valve unit.

The bottom valve unit can be delivered with various options:

With or without fluidization and the actuator that controls the bottom valve is available in different materials. Different gasket materials are chosen according to the application.

▶ The complete vacuum conveying system decides the type of control unit.

The control unit is connected to the pump and the bottom flap to control these two. In the control box one starts and stops the vacuum conveyor, as well as sets the intervals that the conveyor is to convey and empty itself of powder.



C2100-64



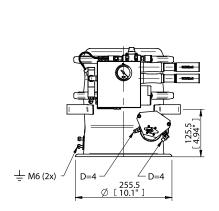
- Low building height.
- ► COAX® patented technology.
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ► Fulfils the requirements of FDA.
- ► Manual dismounting and cleaning.
- ▶ Gore Sinbran filter with PTFE membrane.
- ► Fully pneumatic.

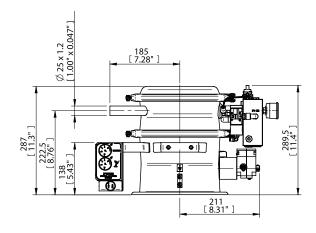
TECHNICAL DATA

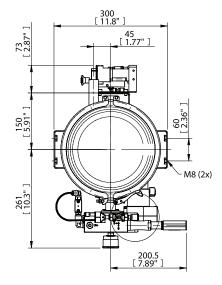
Description	Unit	Value
Feed pressure	psi	58–87
Air consumption	scfm	5.30–7.42
Vacuum	-inHg	18–22
Noise level	dBA	72–76
Material		ASTM 316L, Q, SS
Temperature range	°F	32–140
Weight	lb	21.1
Filter area	ft²	0.95
Material batch volume	cf	0.05
Min particle size	μm	0.5

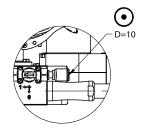
Capacity ton/h at different conveying distances				
16 ft (5 m)	33 ft (10 m)			
0.35-0.50	0.20-0.25			











Description	Part No.
Vacuum pump PS6610 Si32-3x2	01.17.443
Filter unit 2100 Gore Sinbran, Q	01.17.442
Bottom valve unit/module 21/16, brackets, stainless steel, Q	01.17.449
Control unit PPT/RS	01.11.636
Nylon tubing kit, PPT/RS-C2100-64	01.17.509



C2101-100



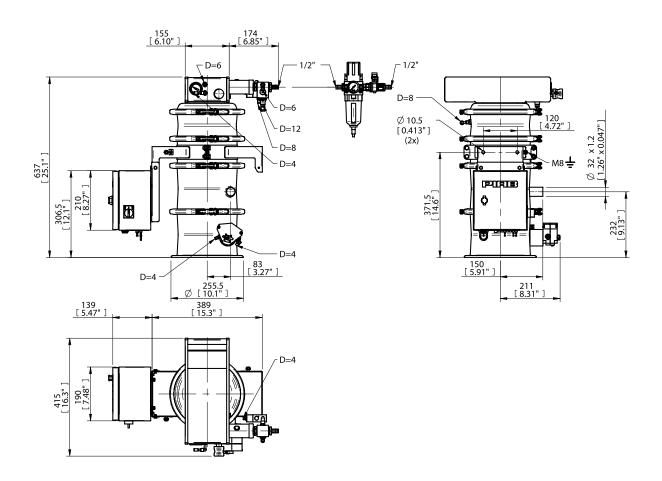
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	10.6–14.8
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, PPS, Q
Temperature range	°F	32–140
Weight	lb	30.6
Safety classification		IP54
Filter area	ft²	2.12
Material batch volume	cf	0.13
Min particle size	μm	5.0

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 99 ft (30 m)				
0.90	0.45	0.20	_	





Description	Part No.
Pump unit MAXI L100	01.06.812
Filter unit 2101 textile filter int, Q	01.06.057/2
Connection unit 21/16 D=32 tang, Q	01.04.498/2
Bottom valve unit 21/16 SS, Q	01.06.787/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C21	01.06.978



C2102-100



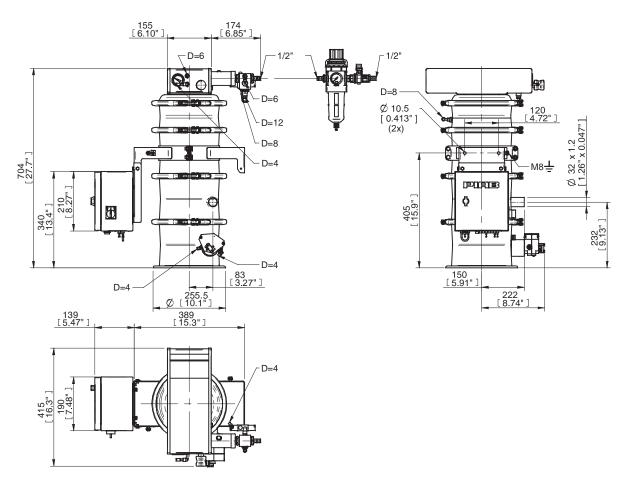
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- ► Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	10.6–14.8
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, PPS, Q
Temperature range	°F	32–140
Weight	lb	48.4
Safety classification		IP54
Filter area	ft²	3.18
Material batch volume	cf	0.13
Min particle size	μm	5.0

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 65 ft (20 m) 98 ft (30 m)				
0.90	0.45	0.20	-	





Description	Part No.
Pump unit MAXI L100	01.06.812
Filter unit 2102 textile filter int, Q	01.06.054/2
Connection unit 21/16 D=32 tang, Q	01.04.498/2
Bottom valve unit 21/16 SS, fluid, Q	01.06.591/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C21	01.06.978



C2104-200



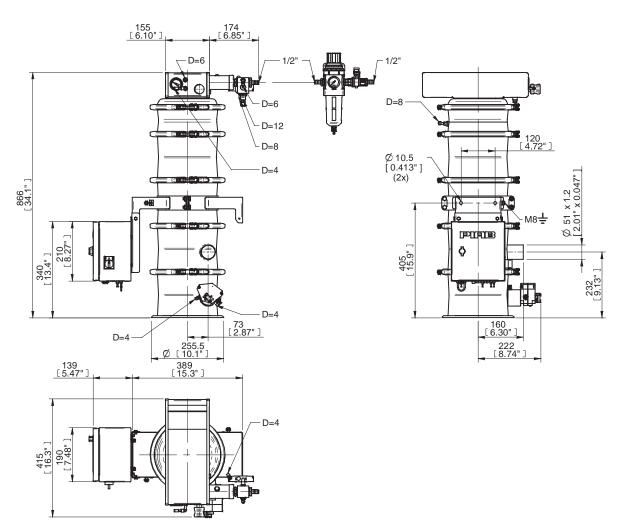
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- ► Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	21.2–29.7
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	24.0
Safety classification		IP54
Filter area	ft²	1.51
Material batch volume	cf	0.13
Min particle size	μm	5.0

Capacity ton/h at different conveying distances			
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)			
1.80	0.90	0.50	0.30





Description	Part No.
Pump unit Maxi L200	01.03.878
Filter unit 2104 textile filter int, Q	01.06.058/2
Connection unit 21/16 D=51 tang, Q	01.04.514/2
Bottom valve unit 21/16 SS, Q	01.06.787/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C21	01.06.978



C2102S-100



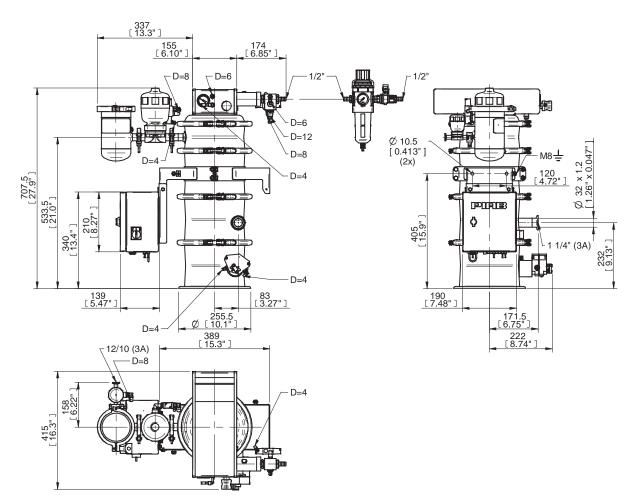
- ▶ USDA and 3-A accepted conveyors that meet the stringent sanitary requirements of the food, dairy and pharmaceutical industries.
- ▶ Solution that contributes to dust-free conveying.
- ▶ Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- ▶ Low sound level.
- Fully pneumatic.
- External filter shock assembly.
- ▶ Gore Sinbran filters with PTFE membrane.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	10.6–14.8
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	63.9
Safety classification		IP54
Filter area	ft²	1.18
Material batch volume	cf	0.13
Min particle size	μm	0.5

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
0.90	0.45	0.20	-	





Description	Part No.
Pump unit MAXI L100	01.06.812
Filter unit 2102 Gore Sinbran ext, Q	01.06.190/2
Connection unit 21/16 D=32 tang 3-A, Q	01.06.113/2
Bottom valve unit 21/16 SS, Q	01.06.787/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C21	01.06.978



C2104S-200



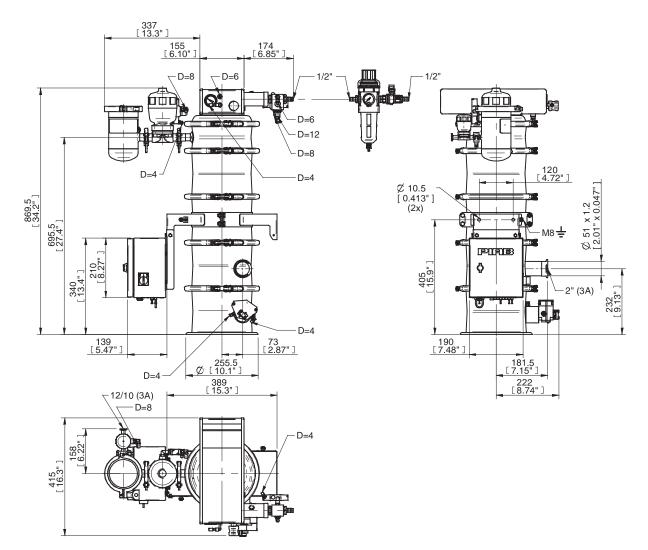
- ▶ USDA and 3-A accepted conveyors that meet the stringent sanitary requirements of the food, dairy and pharmaceutical industries.
- ▶ Solution that contributes to dust-free conveying.
- ▶ Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- ▶ Low sound level.
- Fully pneumatic.
- External filter shock assembly.
- ▶ Gore Sinbran filters with PTFE membrane.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	21.2–29.7
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	63.9
Safety classification		IP54
Filter area	ft²	2.05
Material batch volume	cf	0.13
Min particle size	μm	0.5

Capacity ton/h at different conveying distances			
16 ft (5 m)	33 ft (10 m)	66 ft (20 m)	98 ft (30 m)
1.80	0.90	0.50	0.30





Description	Part No.
Pump unit Maxi L200	01.03.878
Filter unit 2104 Gore Sinbran ext, Q	01.06.198/2
Connection unit 21/16 D=51 tang, Q	01.04.514/2
Bottom valve unit 21/16 SS, Q	01.06.787/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C21	01.06.978



C3302-400



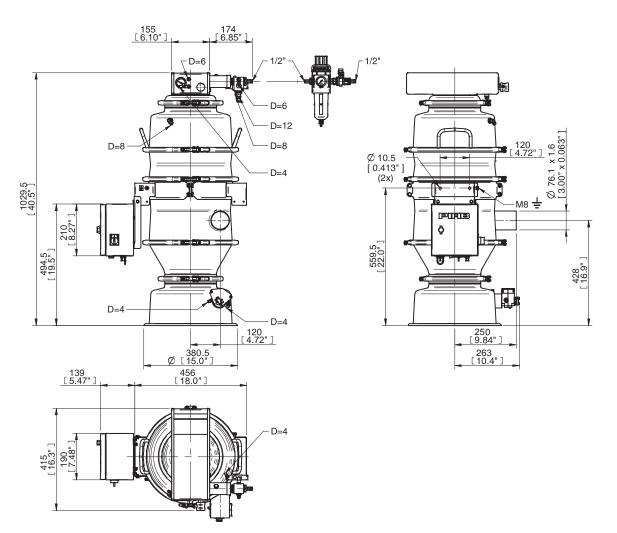
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressurer range	psi	58–87
Air consumption range	scfm	42.4–59.3
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	79.4
Safety classification		IP54
Filter area	ft²	2.80
Material batch volume	cf	0.49
Min particle size	μm	5.0

Capacity ton/h at different conveying distances			
16 ft (5 m)	33 ft (10 m)	66 ft (20 m)	98 ft (30 m)
3.60	1.80	1.00	0.60





Description	Part No.
Pump unit Maxi L400	01.03.879
Filter unit 3302 textile filter int, Q	01.03.887/2
Connection unit 33/26 D=76 tang, Q	01.03.884/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3304-400



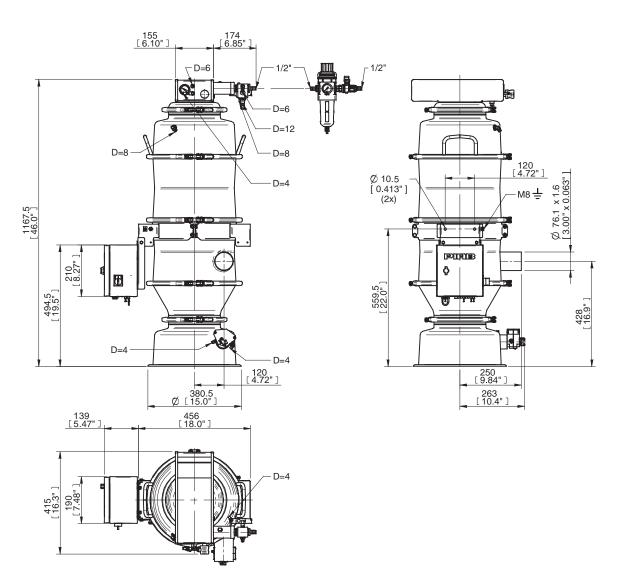
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	42.4–59.3
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	97.0
Safety classification		IP54
Filter area	ft²	4.52
Material batch volume	cf	0.49
Min particle size	μm	5.0

Capacity ton/h at different conveying distances				
16 ft (5 m)	33 ft (10 m)	66 ft (20 m)	98 Ft (30 m)	
3.60	1.80	1.00	0.60	





Description	Part No.
Pump unit Maxi L400	01.03.879
Filter unit 3304 textile filter int, Q	01.03.888/2
Connection unit 33/26 D=76 tang, Q	01.03.884/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3304-600



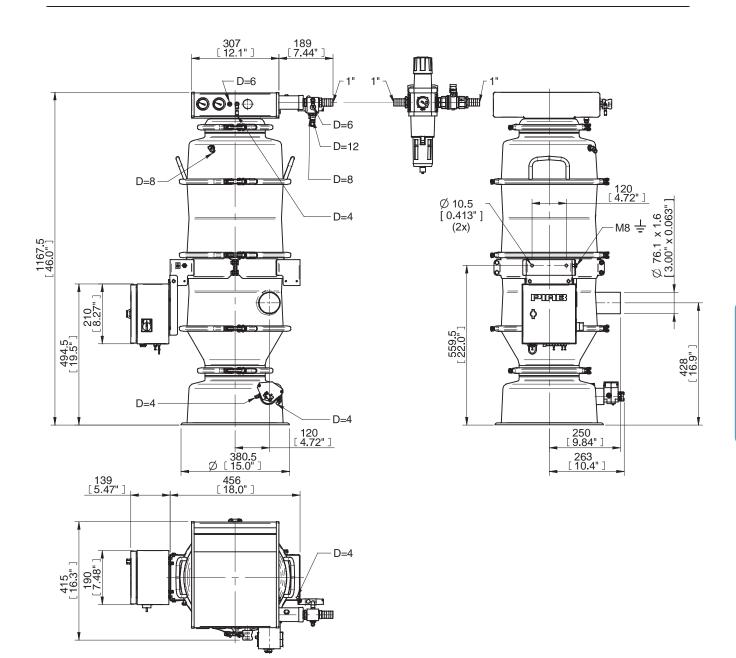
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- ► Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	63.6–89.0
Vacuum range	-inHg	18–22
Noise level	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	90.4
Safety classification		IP54
Filter area	ft²	4.52
Material batch volume	cf	0.49
Min particle size	μm	5.0

Capacity ton/h at different conveying distances			
16 ft (5m)	33 ft (10 m)	66 ft (20 m)	98 ft (30 m)
5.40	2.60	1.40	0.90





Description	Part No.
Pump unit Maxi L600	01.03.880
Filter unit 3304 textile filter int, Q	01.03.888/2
Connection unit 33/26 D=76 tang, Q	01.03.884/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3306-600



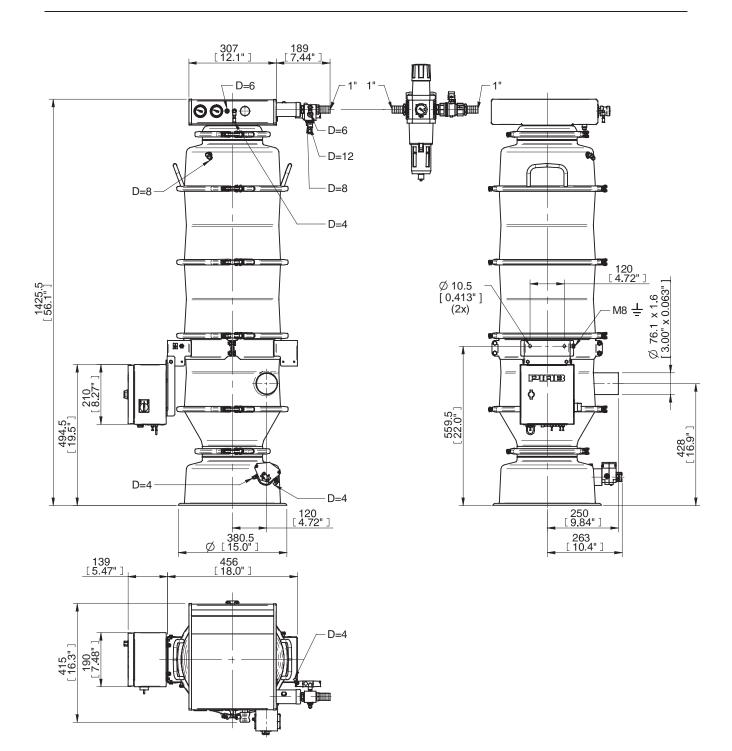
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption	scfm	63.6–89.0
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	90.4
Safety classification		IP54
Filter area	ft²	7.53
Material batch volume	cf	0.49
Min particle size	μm	5.0

Capacity ton/h at different conveying distances				
16 ft (5 m)	33 ft (10 m)	66 ft (20 m)	98 ft (30 m)	
5.40	2.60	1.40	0.90	





Description	Part No.
Pump unit Maxi L600	01.03.880
Filter unit 3306 textile filter int, Q	01.03.889/2
Connection unit 33/26 D=76 tang, Q	01.03.884/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3306-800



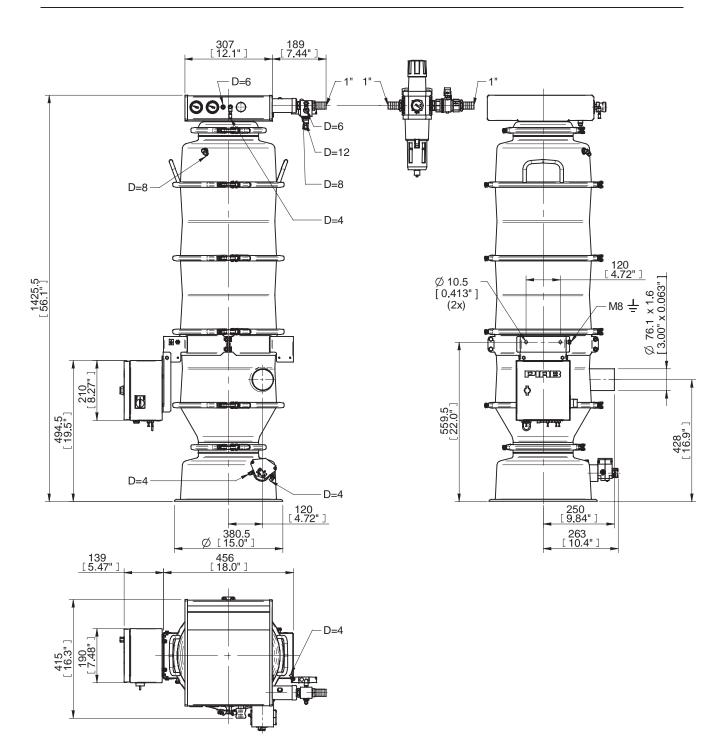
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	84.8–119
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	99.2
Safety classification		IP54
Filter area	ft²	7.53
Material batch volume	cf	0.49
Min particle size	μm	5.0

Capacity ton/h at different conveying distances					
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)					
7.20	3.60	1.80	1.20		





Description	Part No.
Pump unit Maxi L600	01.03.880
Filter unit 3306 textile filter int, Q	01.03.889/2
Connection unit 33/26 D=76 tang, Q	01.03.884/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3302S-400



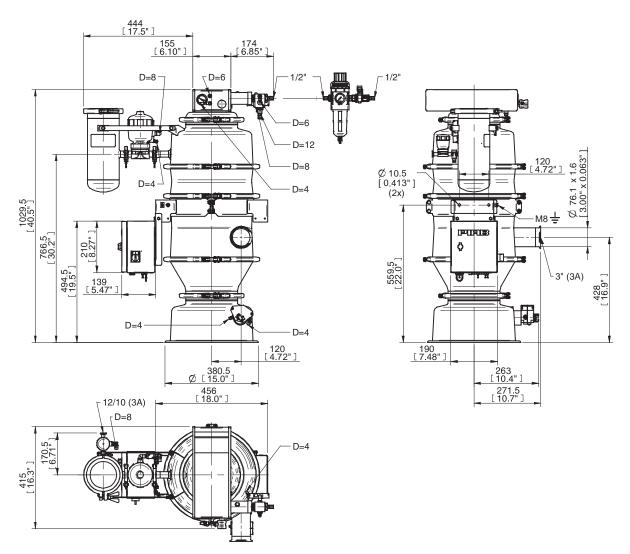
- ▶ USDA and 3-A accepted conveyors that meet the stringent sanitary requirements of the food, dairy and pharmaceutical industries.
- ▶ Solution that contributes to dust-free conveying.
- ▶ Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- ▶ Low sound level.
- Fully pneumatic.
- External filter shock assembly.
- ▶ Gore Sinbran filters with PTFE membrane.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	42.4–59.3
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	97.0
Safety classification		IP54
Filter area	ft²	3.66
Material batch volume	cf	0.49
Min particle size	μm	0.5

Capacity ton/h at different conveying distances				
16 ft (5 m)	33 ft (10 m)	66 ft (20 m)	98 ft (30 m)	
3.60	1.80	1.00	0.60	





Description	Part No.
Pump unit Maxi L400	01.03.879
Filter unit 3302 Gore Sinbran ext, Q	01.03.896/2
Connection unit 33/26 D=75 tang 3-A, Q	01.03.885/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3304S-400



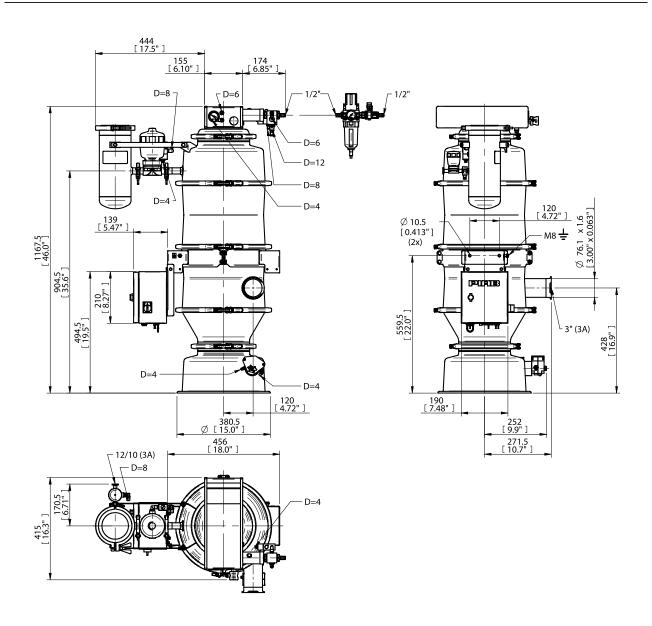
- ▶ USDA and 3-A accepted conveyors that meet the stringent sanitary requirements of the food, dairy and pharmaceutical industries.
- ▶ Solution that contributes to dust-free conveying.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- ▶ Low sound level.
- Fully pneumatic.
- External filter shock assembly.
- ▶ Gore Sinbran filters with PTFE membrane.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	42.4–59.3
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	101
Safety classification		IP54
Filter area	ft²	6.14
Material batch volume	cf	0.49
Min particle size	μm	0.5

Capacity ton/h at different conveying distances				
16 ft (5 m)	33 ft (10 m)	66 ft (20 m)	98 ft (30 m)	
3.60	1.80	1.00	0.60	





Description	Part No.
Pump unit Maxi L400	01.03.879
Filter unit 3304 Gore Sinbran ext, Q	01.03.897/2
Connection unit 33/26 D=75 tang 3-A, Q	01.03.885/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3304S-600



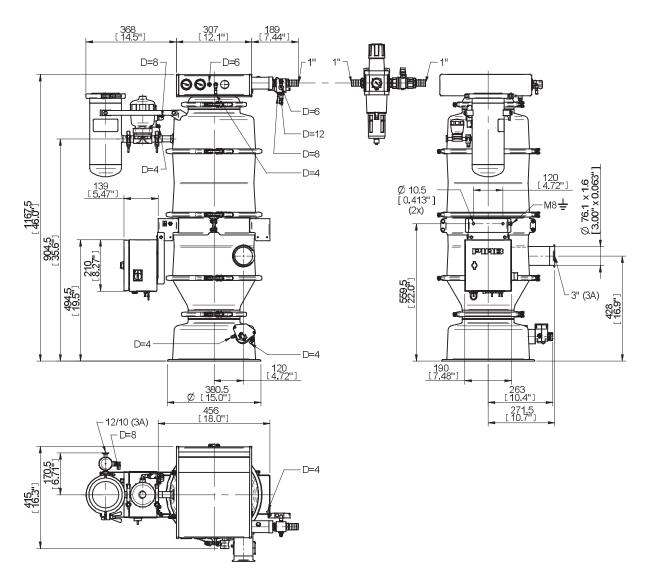
- ▶ USDA and 3-A accepted conveyors that meet the stringent sanitary requirements of the food, dairy and pharmaceutical industries.
- ▶ Solution that contributes to dust-free conveying.
- ▶ Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- ▶ Low sound level.
- Fully pneumatic.
- External filter shock assembly.
- ▶ Gore Sinbran filters with PTFE membrane.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	63.6–89.0
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	108
Safety classification		IP54
Filter area	ft²	6.14
Material batch volume	cf	0.49
Min particle size	μm	0.5

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
5.40 2.60 1.40 0.90				





Description	Part No.
Pump unit Maxi L600	01.03.880
Filter unit 3304 Gore Sinbran ext, Q	01.03.897/2
Connection unit 33/26 D=75 tang 3-A, Q	01.03.885/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3306S-600



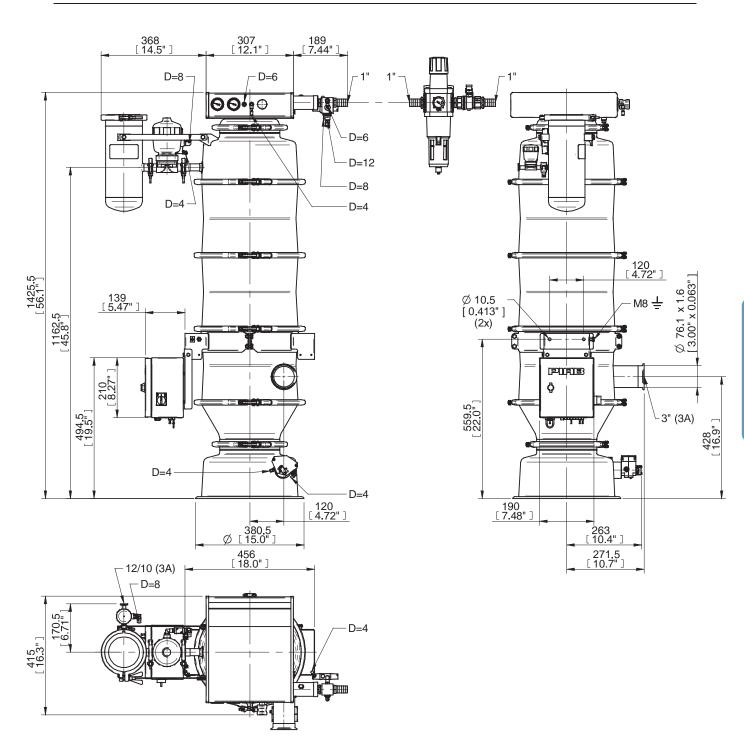
- ▶ USDA and 3-A accepted conveyors that meet the stringent sanitary requirements of the food, dairy and pharmaceutical industries.
- ▶ Solution that contributes to dust-free conveying.
- ▶ Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- ▶ Low sound level.
- Fully pneumatic.
- External filter shock assembly.
- ▶ Gore Sinbran filters with PTFE membrane.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	63.6–89.0
Vacuum range	-inHg	18–22
Noise level	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	117
Safety classification		IP54
Filter area	ft²	11.0
Material batch volume	cf	0.49
Min particle size	μm	0.5

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
5.40 2.60 1.40 0.90				





Description	Part No.
Pump unit Maxi L600	01.03.880
Filter unit 3306 Gore Sinbran ext, Q	01.03.898/2
Connection unit 33/26 D=75 tang 3-A, Q	01.03.885/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C3306S-800



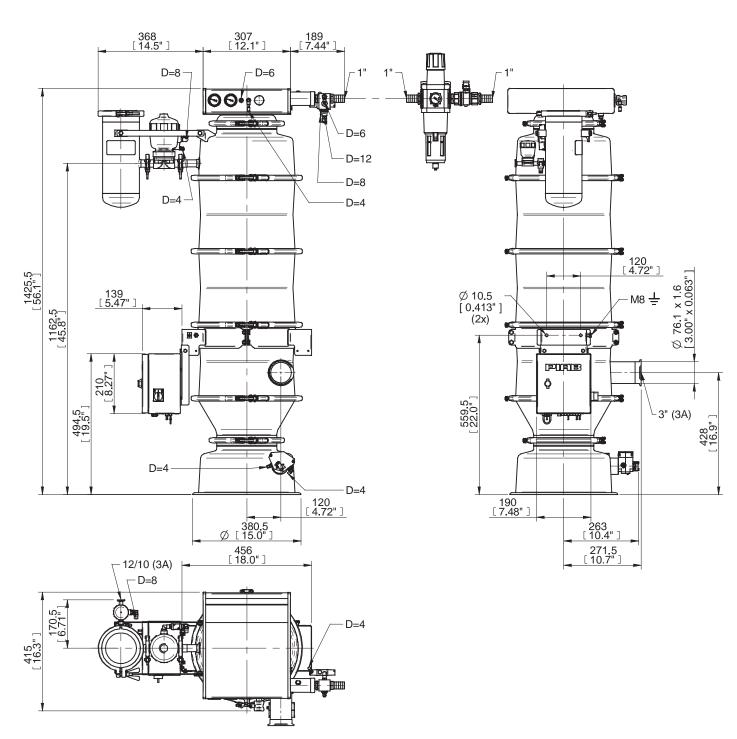
- ▶ USDA and 3-A accepted conveyors that meet the stringent sanitary requirements of the food, dairy and pharmaceutical industries.
- ▶ Solution that contributes to dust-free conveying.
- ▶ Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- ▶ Low sound level.
- Fully pneumatic.
- External filter shock assembly.
- ▶ Gore Sinbran filters with PTFE membrane.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	84.8–119
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	117
Safety classification		IP54
Filter area	ft²	11.0
Material batch volume	cf	0.49
Min particle size	μm	0.5

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
7.20 3.60 1.80 1.20				





Description	Part No.
Pump unit Maxi L800	01.03.881
Filter unit 3306 Gore Sinbran ext, Q	01.03.898/2
Connection unit 33/26 D=75 tang 3-A, Q	01.03.885/2
Bottom valve unit 33/34 SS, Q	01.03.907/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit standard CU-C33	01.03.929



C5602-800



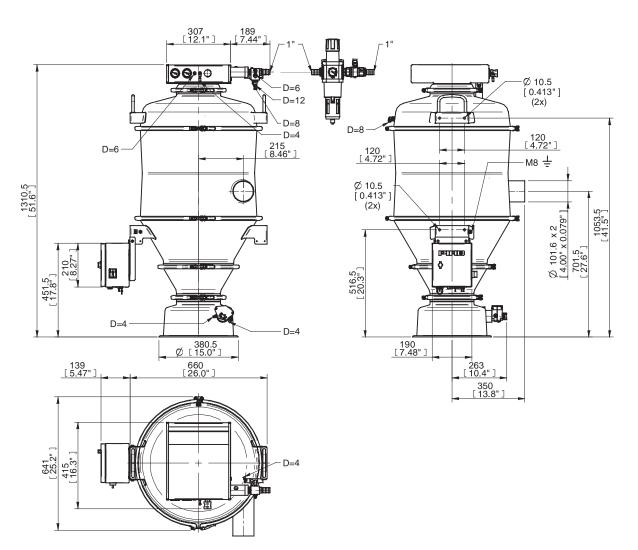
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	84.8–119
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	119
Safety classification		IP54
Filter area	ft²	6.46
Material batch volume	cf	2.55
Min particle size	μm	5.0

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
7.20 3.60 1.80 1.20				





Description	Part No.
Pump unit Maxi L800	01.03.881
Filter unit 5602 textile filter int tang, Q	01.06.820/2
Bottom valve unit 56/57 SS, Q	01.06.816/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C56	01.06.981



C5604-800



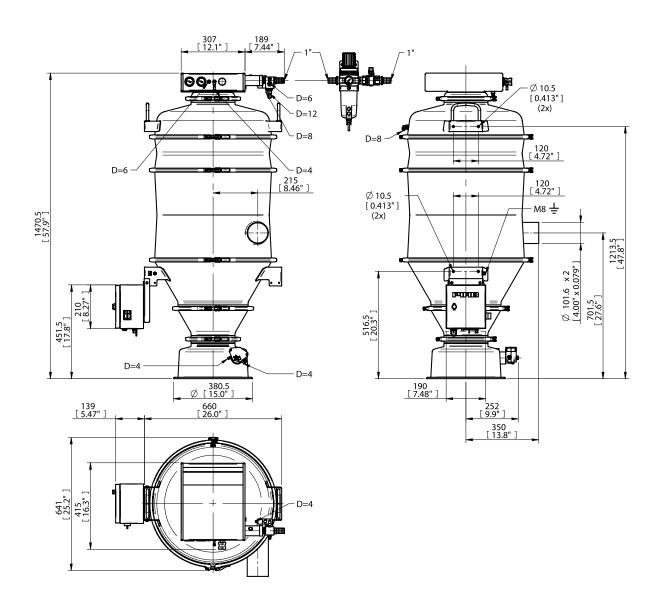
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	84.8–119
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	148
Safety classification		IP54
Filter area	ft²	10.5
Material batch volume	cf	2.55
Min particle size	μm	5.0

Capacity ton/h at different conveying distances			
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)			
7.20	3.60	1.80	1.20





Description	Part No.
Pump unit Maxi L800	01.03.881
Filter unit 5604 textile filter int Q	01.06.822/2
Connection unit 56/43 D=102 tang, Q	01.06.239/2
Bottom valve unit 56/57 SS, Q	01.06.816/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C56	01.06.981



C5604-1200



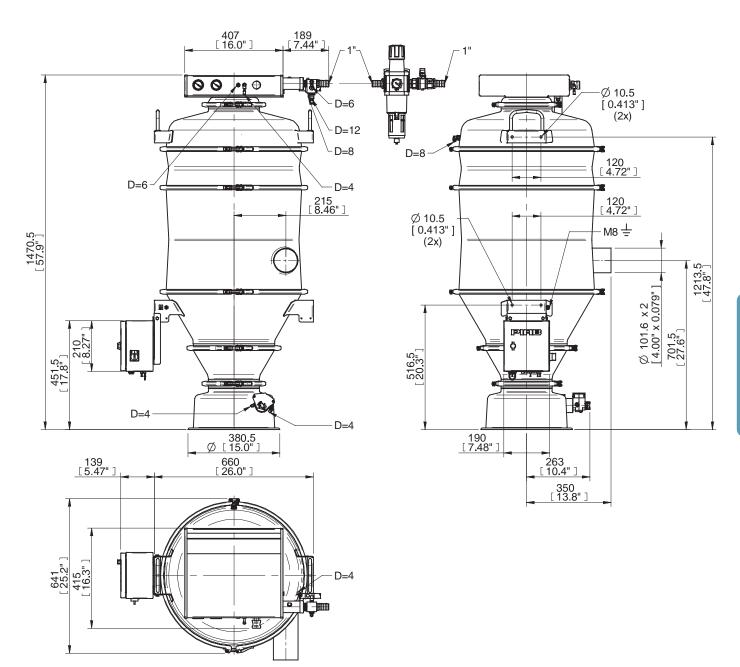
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	127–178
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	152
Safety classification		IP54
Filter area	ft²	10.5
Material batch volume	cf	2.55
Min particle size	μm	5.0

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
10.8 5.40 2.70 1.80				





Description	Part No.
Pump unit Maxi L1200	01.03.882
Filter unit 5604 textile filter int Q	01.06.822/2
Connection unit 56/43 D=102 tang, Q	01.06.239/2
Bottom valve unit 56/57 SS, Q	01.06.816/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C56	01.06.981



C5606-1200



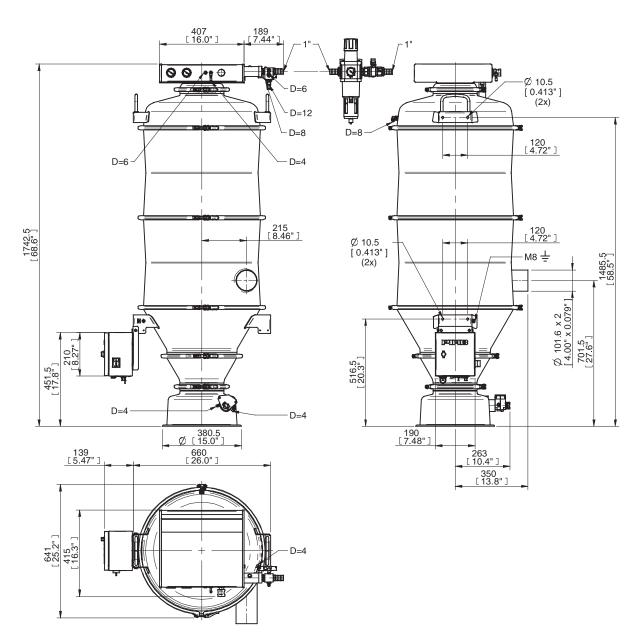
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	127–178
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	170
Safety classification		IP54
Filter area	ft²	17.7
Material batch volume	cf	2.55
Min particle size	μm	5.0

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
10.8	5.40	2.70	1.80	





Description	Part No.
Pump unit Maxi L1200	01.03.882
Filter unit 5606 textile filter int Q	01.06.823/2
Connection unit 56/43 D=102 tang, Q	01.06.239/2
Bottom valve unit 56/57 SS, Q	01.06.816/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C56	01.06.981



C5606-1600



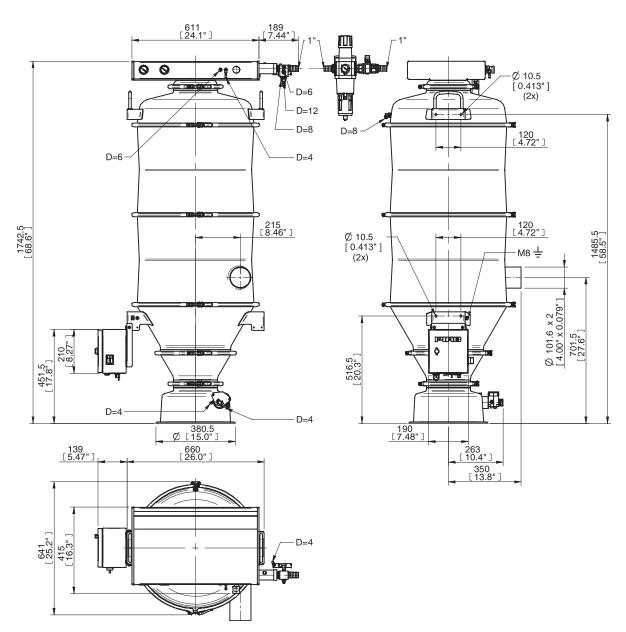
- ▶ Designed mainly for industries handling food, chemical and pharmaceutical products.
- ▶ Solution that contributes to dust-free conveying.
- ▶ All materials in contact with the conveyed product fulfil the requirements of FDA, USDA and 3-A.
- ► Turnkey conveyor that is easy to install and start up.
- ► Manual dismounting and cleaning.
- Low sound level.
- ► Fully pneumatic.
- ► Reusable textile bag filter.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	170–237
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		ASTM 316L, Q
Temperature range	°F	32–140
Weight	lb	172
Safety classification		IP54
Filter area	ft²	17.7
Material batch volume	cf	2.55
Min particle size	μm	5.0

Capacity ton/h at different conveying distances				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
14.0 7.00 3.50 2.40				





Description	Part No.
Pump unit Maxi L1600	01.03.883
Filter unit 5606 textile filter int Q	01.06.823/2
Connection unit 56/43 D=102 tang, Q	01.06.239/2
Bottom valve unit 56/57 SS, Q	01.06.816/2
Control unit CU-1B, bracket	01.03.919
Nylon tubing kit, Standard CU-C56	01.06.981



2101 WITH TEXTILE FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- Automatic filter cleaning.

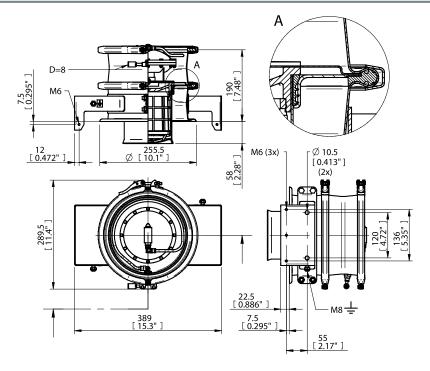
TECHNICAL DATA

Description	Unit	Value	
Feed pressure range	psi	58-87	
Material		ASTM 316L, ePTFE, Polyester	
Temperature range	°F	32-140	
Filter area	ft²	0.65	
Min particle size	μm	5.0	

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.057/1	01.06.057/2
Material		NBR, C	Q
Weight	lb	14.8	

Description	Part No.
Filter unit 2101 textile filter int, NBR	01.06.057/1
Filter unit 2101 textile filter int, Q	01.06.057/2





2102 WITH TEXTILE FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- ► Automatic filter cleaning.

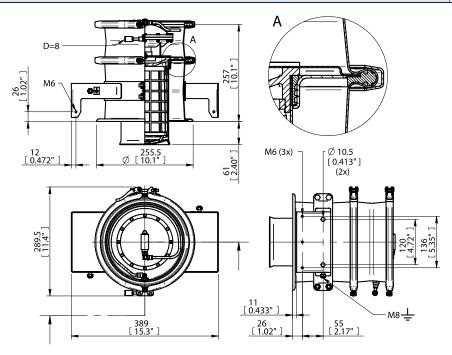
TECHNICAL DATA

Description	Unit	Value	
Feed pressure range	psi	58-87	
Material		ASTM 316L, ePTFE, Polyester	
Temperature range	°F	32-140	
Filter area	ft²	0.97	
Min particle size	μm	5.0	

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.054/1	01.06.054/2
Material		NBR, C	Q
Weight	lb	15.9	

Description	Part No.
Filter unit 2102 textile filter int, NBR	01.06.054/1
Filter unit 2102 textile filter int, Q	01.06.054/2





2104 WITH TEXTILE FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- Automatic filter cleaning.

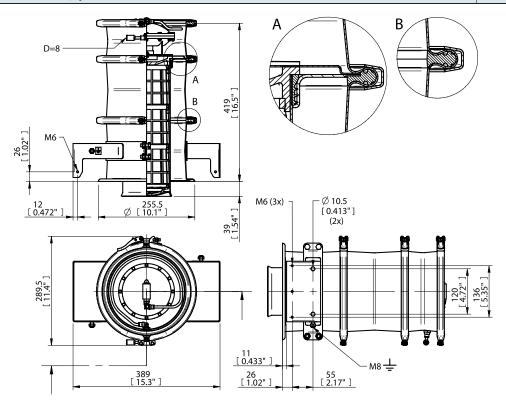
TECHNICAL DATA

Description	Unit	Value		
Feed pressure range	psi	58-87		
Material		ASTM 316L, ePTFE, Polyester		
Temperature range	°F	32-140		
Filter area	ft²	1.51		
Min particle size	μm	5.0		

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.058/1	01.06.058/2
Material		NBR, C	Q
Weight	lb	20.7 20.8	

Description	Part No.
Filter unit 2104 textile filter int, NBR	01.06.058/1
Filter unit 2104 textile filter int, O	01.06.058/2







- ➤ Separates the carrying air from the conveyed product.
- ► The sealings and white rod filters fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

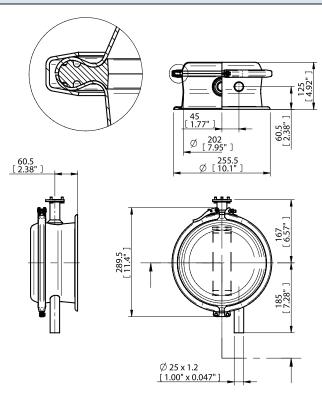
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58-87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32-140
Filter area	ft²	0.32
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.17.441	01.17.442
Material		NBR, C	Q
Weight	lb	5.73	5.73

Description	Part No.
Filter unit 2100 Gore Sinbran, NBR	01.17.441
Filter unit 2100 Gore Sinbran, O	01.17.442







- ▶ Separates the carrying air from the conveyed product.
- ► The sealings and white rod filters fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- Automatic filter cleaning.

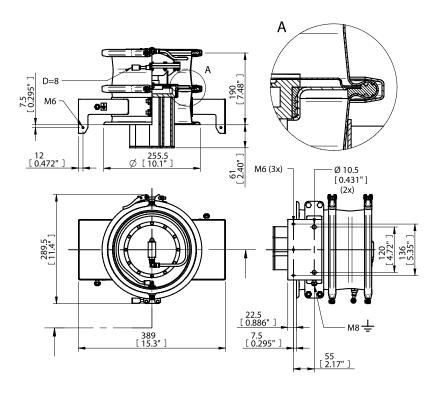
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58-87
Material		ASTM 316L, PTFT, PE
Temperature range	°F	32-140
Filter area	ft²	0.86
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.057/1	01.06.057/2
Material		NBR, C	Q
Weight	lb	14.5	14.5

Description	Part No.
Filter unit 2101 Gore Sinbran int, NBR	01.08.095/1
Filter unit 2101 Gore Sinbran int. O	01.08.095/2







- ➤ Separates the carrying air from the conveyed product.
- ➤ The sealings and white rod filters fulfil the requirements of FDA.
- ► The black rod filters are antistatic and of food quality.
- Automatic filter cleaning.

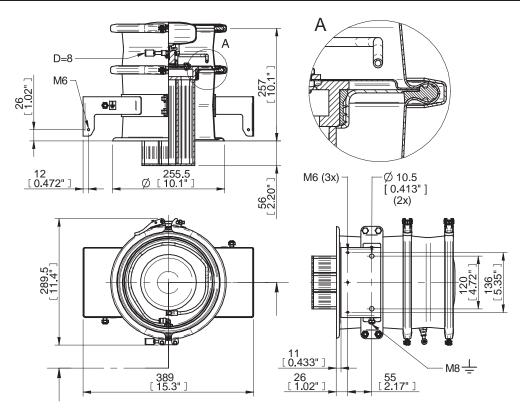
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58-87
Material		ASTM 316L, PTFT, PE
Temperature range	°F	32-140
Filter area	ft²	1.18
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.052/1	01.06.052/2
Material		NBR, C	Q
Weight	lb	15.5	15.6

Description	Part No.
Filter unit 2102 Gore Sinbran int, NBR	01.06.052/1
Filter unit 2102 Gore Sinbran int, Q	01.06.052/2







- ▶ Separates the carrying air from the conveyed product.
- ➤ The sealings and white rod filters fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- Automatic filter cleaning.

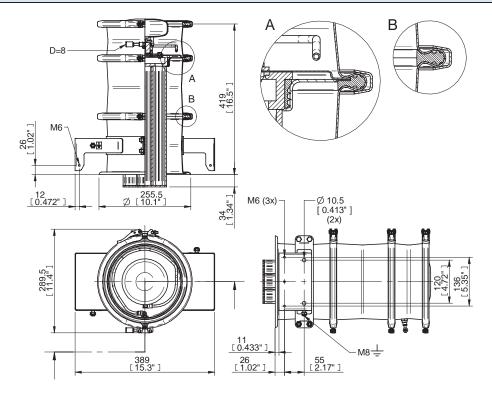
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58-87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32-140
Filter area	ft²	2.05
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.055/1	01.06.055/2
Material		NBR, C	Q
Weight	lb	20.1	20.2

Description	Part No.
Filter unit 2104 Gore Sinbran int, NBR	01.06.055/1
Filter unit 2104 Gore Sinbran int, Q	01.06.055/2





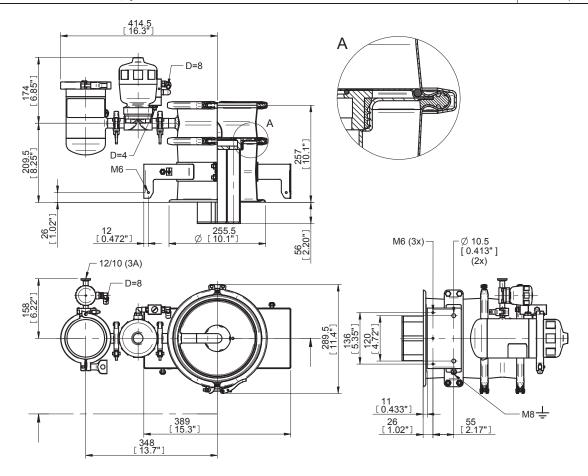


- ▶ Separates the carrying air from the conveyed product.
- ► Hygienic design.
- ► The sealings and white rod filter fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58-87
Material		ASTM 316L, Q, PTFE, PE
Temperature range	°F	32-140
Weight	lb	27.1
Filter area	ft²	1.18
Min particle size	μm	0.5

Description	Part No.
Filter unit 2102 Gore Sinbran ext, Q	01.06.190/2





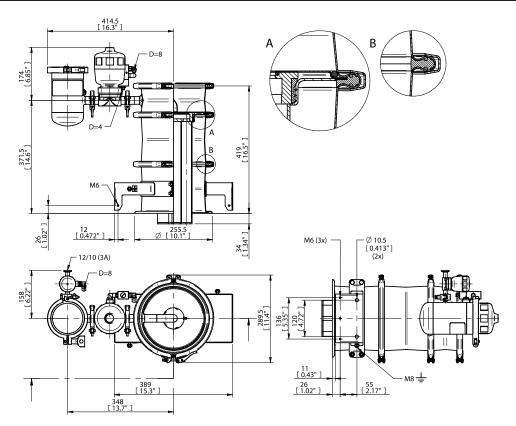


- ▶ Separates the carrying air from the conveyed product.
- ► Hygienic design.
- ► The sealings and white rod filter fulfil the requirements of FDA.
- ► The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58-87
Material		ASTM 316L, Q, PTFE, PE
Temperature range	°F	32-140
Weight	lb	31.5
Filter area	ft²	2.05
Min particle area	μm	0.5

Description	Part No.
Filter unit 2104 Gore Sinbran ext, Q	01.06.198/2





C2100 WITH PLEATED FILTER



- ▶ Separates the carrying air from the conveyed product.
- ► Automatic filter cleaning.
- ► FDA compliance.
- ► The filter is antistatic and in complience with ATEX.

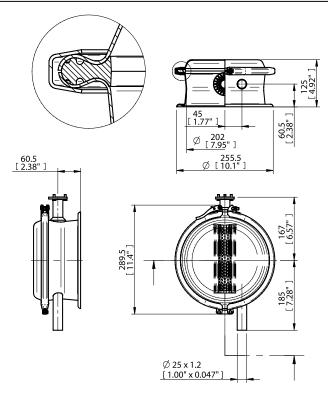
TECHNICAL DATA

Description	Unit	Value
Feed pressure, range	psi	58-87
Material		ASTM 316L, PTFE, Polyester, PUR, EN1.4-404
Temperature range	°F	32-140
Filter area	ft2	0.86
Min particle size	um	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value				
		01.18.034	01.18.035			
Material		NBR	Q			
Weight	lb	5.97	6.00			

Description	Part. No.
Filter unit 2100 pleated, NBR	01.18.034
Filter unit 2100 pleated, Q	01.18.035





PS6610 SI 32-3X2



- ► COAX® patented technology.
- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ▶ Short response time.
- ➤ Compact size and low weight in comparison to conventional mechanical pumps.

TECHNICAL DATA

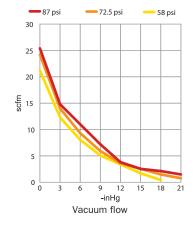
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	5.30-7.42
Vacuum range	-inHg	18–22
Noise level	dBA	70–73
Material		AI, PA, NBR, PUR
Temperature range	°F	32-140
Weight	lb	4.28

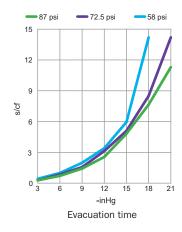
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)								
psi	scfm	0	0 3 6 9 12 15 18 21								
58	5.30	21.2	12.3	8.05	5.09	3.39	1.70	0.42	_	18.0	
72.5	6.36	24.2	14.0	9.32	5.93	3.60	2.54	1.48	0.76	21.0	
87	7.42	25.4	14.8	11.0	7.20	3.81	2.54	2.12	1.48	22.2	

EVACUATION TIME

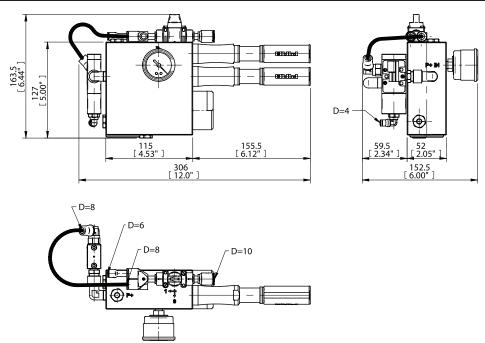
Feed pressure	Air consumption		Evacuation time (s/cf) to reach different vacuum levels (-inHg)								
psi	scfm	3	6	9	12	15	18	21	-inHg		
58	5.30	0.42	0.99	1.98	3.40	5.95	14.2	_	18.0		
72.5	6.36	0.28	0.85	1.56	3.12	5.10	8.50	14.2	21.0		
87	7.42	0.28	0.71	1.42	2.55	4.82	7.65	11.3	22.2		







Description	Part No.
Vacuum pump PS6610 Si32-3x2	01.17.443





CLASSIC L100



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

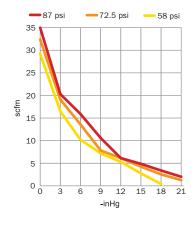
Description	Unit	Value
Feed pressure range	psi	58-87
Air consumption range	scfm	10.6-14.8
Vacuum range	-inHg	18-22
Noise level range	dBA	60-65
Material		PPS, AI, ASTM 316L
Temperature range	°F	32-140
Weight	lb	10.4

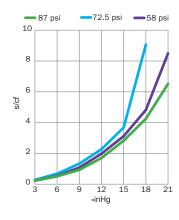
VACUUM FLOW

Feed pressure	Air consumption		Vacuum	Max vacuum						
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	14.8	35.0	20.3	15.9	10.6	6.14	4.87	3.39	2.01	22.1
72.5	12.7	32.4	19.1	13.6	7.84	6.14	4.24	2.54	1.27	21.0
58	10.6	29.2	16.5	10.2	7.20	5.30	2.75	0.42	-	18.0

EVACUATION TIME

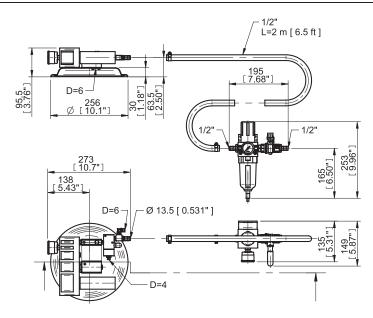
Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)								
psi	scfm	3			12	15	18	21	-inHg		
87	14.8	0.23	0.51	0.93	1.70	2.83	4.25	6.52	22.1		
72.5	12.7	0.23	0.54	1.08	1.98	3.12	4.82	8.50	21.0		
58	10.6	0.28	0.68	1.33	2.27	3.68	9.07	-	18.0		







Description	Part No.
Pump unit CLASSIC L100	01.07.367





MAXI L100



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ➤ Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

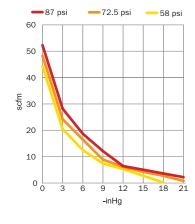
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	10.6–14.8
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	16.8

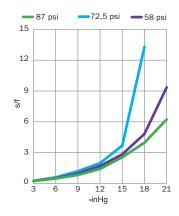
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)						Max vacuum	
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	14.8	52.3	28.2	18.7	12.1	6.44	5.04	3.62	2.22	22.1
72.5	12.7	48.3	24.2	16.5	8.90	6.14	4.24	2.75	0.81	21.0
58	10.6	44.3	20.5	12.5	7.42	5.30	2.75	0.21	-	18.0

EVACUATION TIME

Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)						
psi	scfm	3	6	9	12	15	18	21	-inHg
87	14.8	0.23	0.48	0.82	1.42	2.55	3.97	6.23	22.1
72.5	12.7	0.23	0.51	0.96	1.70	2.83	4.82	9.35	21.0
58	10.6	0.25	0.59	1.19	1.98	3.68	13.3	-	18.0

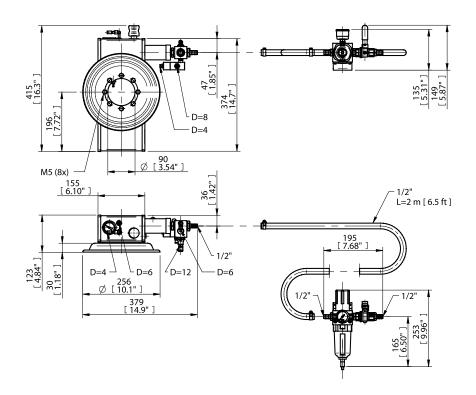






ORDERING INFORMATION

Description	Part No.
Pump unit MAXI L100	01.06.812



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL100-400	31.16.017
Adapter MAXI L100-L1600 cpl	31.02.073



MAXI L200



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ➤ Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

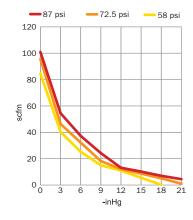
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	21.1–29.7
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	16.8

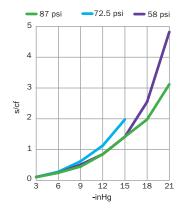
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)						Max vacuum	
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	29.7	101	54.5	37.3	24.2	13.1	10.2	6.99	4.45	22.1
72.5	25.4	95.6	46.4	32.2	18.2	12.1	8.69	5.09	1.02	21.0
58	21.2	84.5	40.3	25.2	15.0	11.0	5.51	0.21	-	18.0

EVACUATION TIME

Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)						
psi	scfm	3	6	9	12	15	18	21	-inHg
87	29.7	0.11	0.25	0.45	0.85	1.42	1.98	3.12	22.1
72.5	25.4	0.11	0.25	0.51	0.85	1.42	2.55	4.82	21.0
58	21.2	0.11	0.28	0.62	1.13	1.98	_	_	18.0

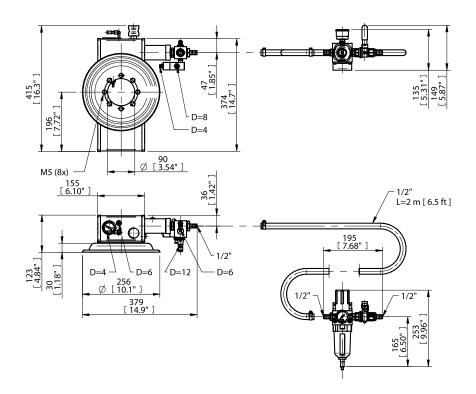






ORDERING INFORMATION

Description	Part No.
Pump unit Maxi L200	01.03.878



ORDERING INFORMATION ACCESSORIES

Description		Part No.
Central exhaust MI	.100–400	31.16.017
Adapter MAXI L100	L1600 cpl	31.02.073



MAXI L400



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

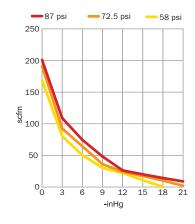
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	42.4–59.3
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	17.0

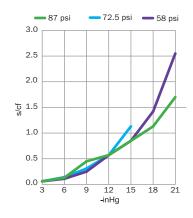
VACUUM FLOW

Feed pressure	Air consumption	Vacuum flow (scfm) at different vacuum levels (-inHg)								Max vacuum
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	59.3	201	109	74.6	48.3	26.3	20.1	14.2	8.90	22.1
72.5	50.9	191	92.6	64.4	36.2	24.2	17.4	10.2	2.01	21.0
58	42.4	169	80.5	50.4	30.3	22.2	10.8	0.40	-	18.0

EVACUATION TIME

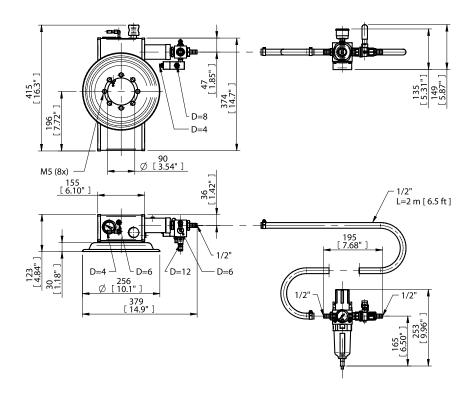
Feed pressure	Air consumption	Evacuation time (s/cf) at different vacuum levels (-inHg)							Max vacuum
psi	scfm	3	6	9	12	15	18	21	-inHg
87	59.3	0.06	0.13	0.45	0.57	0.85	1.13	1.70	22.1
72.5	50.9	0.06	0.11	0.25	0.57	0.85	1.42	2.55	21.0
58	42.4	0.06	0.14	0.31	0.57	1.13	_	_	18.0







Description	Part No.
Pump unit Maxi L400	01.03.879



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL100–400	31.16.017
Adapter MAXI L100-L1600 cpl	31.02.073



21/16 D=32 TANGENTIAL CONNECTION



- ▶ Connects the conveyor to the pipe system.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- Standard connection.

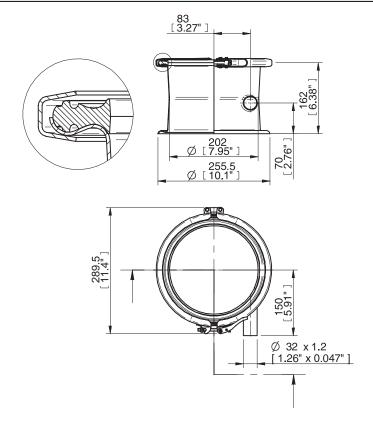
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Material batch volume below connection pipe	cf	0.07

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.04.498/1	01.04.498/2	
Material		NBR	Q	
Weight	lb	4.48	4.50	

Description	Part No.
Connection unit 21/16 D=32 tang, NBR	01.04.498/1
Connection unit 21/16 D=32 tang, Q	01.04.498/2





21/16 D=51 TANGENTIAL CONNECTION



- ▶ Connects the conveyor to the pipe system.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- Standard connection.

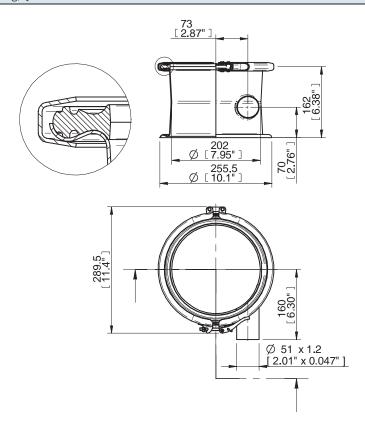
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Material batch volume below connection pipe	cf	0.07

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.04.514/1	01.04.514/2	
Material		NBR	Q	
Weight	lb	4.54	4.56	

Description	Part No.
Connection unit 21/16 D=51 tang, NBR	01.04.514/1
Connection unit 21/16 D=51 tang, Q	01.04.514/2





21/16 D=32 TANGENTIAL CONNECTION 3-A



- ▶ Connects the conveyor to the pipe system.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ 3-A connection.

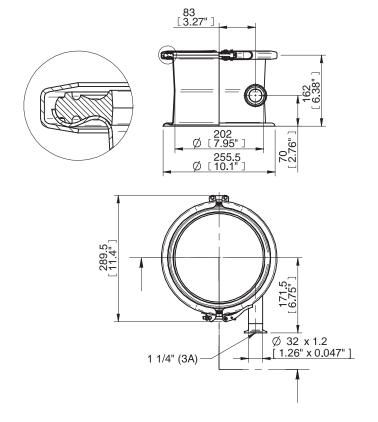
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Material batch volume below connection pipe	cf	0.07

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.06.113/1	01.06.113/2	
Material		NBR	Q	
Weight	lb	4.61	4.61	

Description	Part No.
Connection unit 21/16 D=32 tang 3-A, NBR	01.06.113/1
Connection unit 21/16 D=32 tang 3-A, Q	01.06.113/2





21/16 D=51 TANGENTIAL CONNECTION 3-A



- ▶ Connects the conveyor to the pipe system.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ 3-A connection.

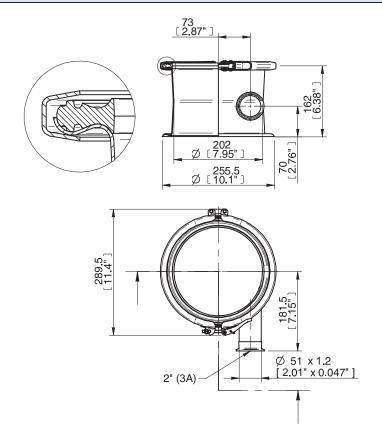
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Material batch volume below connection pipe	cf	0.07

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.114/1	01.06.114/2
Material		NBR	Q
Weight	lb	4.72	4.72

Description	Part No.
Connection unit 21/16 D=51 tang 3-A, NBR	01.06.114/1
Connection unit 21/16 D=51 tang 3-A, Q	01.06.114/2





21/16 WITH BRACKETS AND ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ Fitted with actuator in stainless steel.

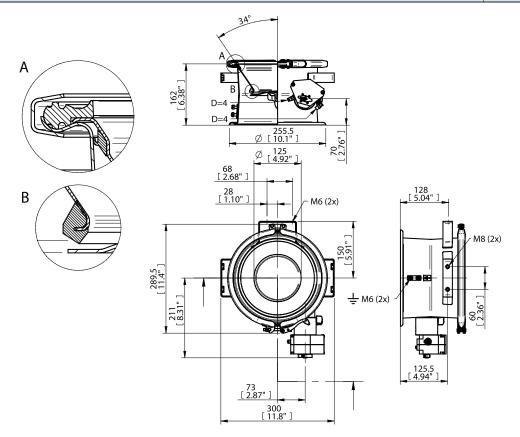
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L
Temperature range	°F	32–140
Material batch volume	cf	0.06

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.17.448	01.17.449
Material		NBR	Q
Weight	kg	12.1	12.1

Description	Part No.
Bottom valve unit/module 21/16, brackets, stainless steel, NBR	01.17.448
Bottom valve unit/module 21/16, brackets, stainless steel, Q	01.17.449





21/16 WITH BRACKETS AND ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ Fitted with actuator in epoxy-coated aluminium.

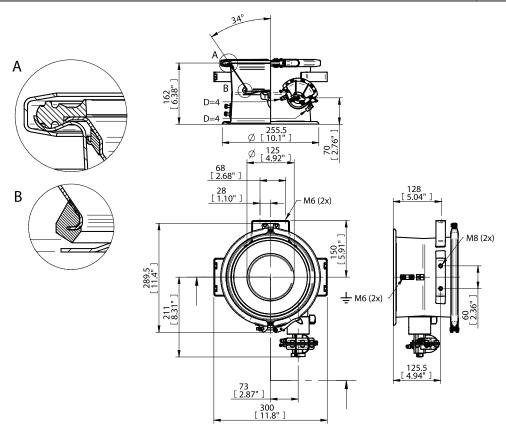
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Zn, EP
Temperature range	°F	32–140
Material batch volume	cf	0.06

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.17.446	01.17.447
Material		NBR	Q
Weight	lb	10.1	10.1

Description	Part No.
Bottom valve unit/module 21/16, brackets, aluminium, NBR	01.17.446
Bottom valve unit/module 21/16, brackets, aluminium, Q	01.17.447





21/16 WITH BRACKETS, FLUIDIZATION AND ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA (with white fluidization cone).
- ▶ Fitted with actuator in stainless steel.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included

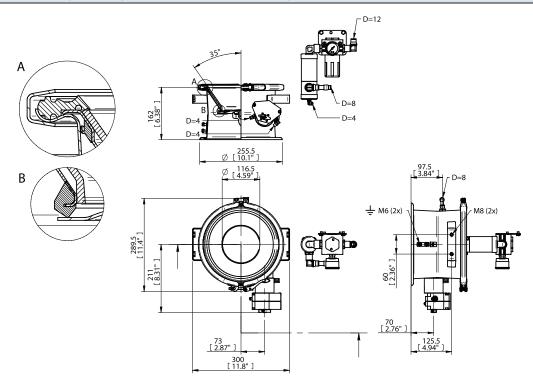
TECHNICAL DATA

Description	Unit	Value
Feed pressure max	psi	101.5
Feed pressure min, fluidization	psi	7.25
Feed pressure max, fluidization	psi	22
Air consumption min	scfm	6.36
Air consumption max	scfm	12.7
Material		ASTM 316L, PE
Temperature range	°F	32–140
Material batch volume	cf	0.05

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.17.444	01.17.445
Material		NBR, C	Q
Weight	lb	14.5	14.5

Description	Part No.
Bottom valve unit/module 21/16, brackets, stainless steel, fluid, NBR	01.17.457
Bottom valve unit/module 21/16, brackets, stainless steel, fluid, Q	01.17.458





21/16 WITH BRACKETS, FLUIDIZATION AND ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA (with white fluidization cone).
- ▶ Fitted with actuator in epoxy-coated aluminium.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included.

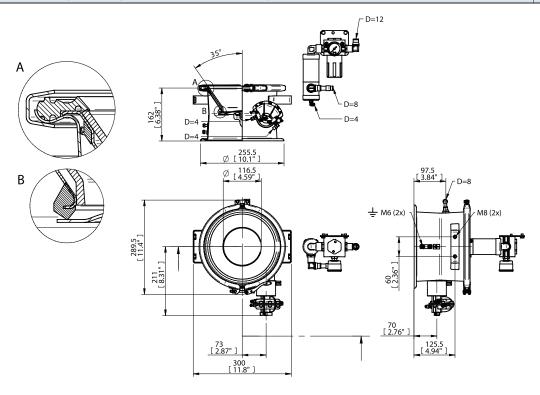
TECHNICAL DATA

Description	Unit	Value
Feed pressure max	psi	101.5
Feed pressure min, fluidization	psi	7.25
Feed pressure max, fluidization	psi	22
Air consumption min	scfm	6.36
Air consumption max	scfm	12.7
Material		ASTM 316L, Zn, EP, PE
Temperature range	°F	32–140
Material batch volume	cf	0.05

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.17.457	01.17.458
Material		NBR, C	Q
Weight	lb	14.5	14.5

Description	Part No.
Bottom valve unit/module 21/16, brackets, aluminium, fluid, NBR	01.17.444
Bottom valve unit/module 21/16, brackets, aluminium, fluid, Q	01.17.445





21/16 WITH ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ Fitted with actuator in stainless steel.

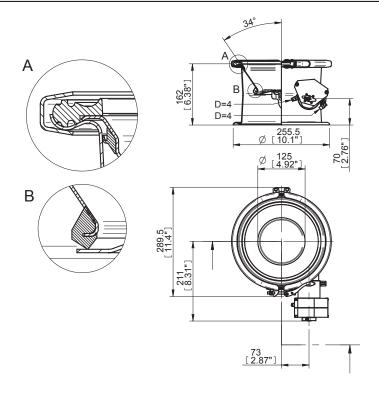
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L
Temperature range	°F	32–140
Material batch volume	cf	0.06

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.787/1	01.06.787/2
Material		NBR	Q
Weight	lb	11.2	11.2

Description	Part No.
Bottom valve unit 21/16 SS, NBR	01.06.787/1
Bottom valve unit 21/16 SS, Q	01.06.787/2





21/16 WITH ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ Fitted with actuator in epoxy-coated aluminium.

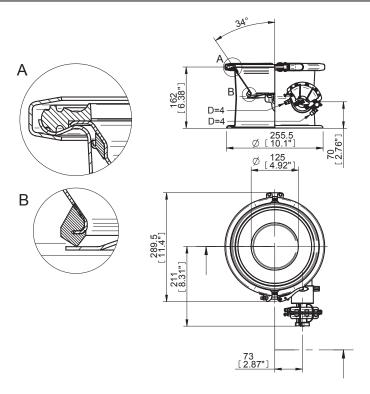
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Zn, EP
Temperature range	°F	32–140
Material batch volume	cf	0.06

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.786/1	01.06.786/2
Material		NBR	Q
Weight	lb	9.13	9.15

Description	Part No.
Bottom valve unit 21/16 Al NBR	01.06.786/1
Bottom valve unit 21/16 Al Q	01.06.786/2





21/16 WITH FLUIDIZATION AND ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA (with white fluidization cone).
- ▶ Fitted with actuator in stainless steel.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included.

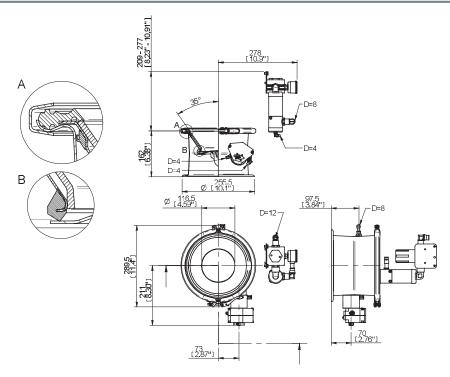
TECHNICAL DATA

Description	Unit	Value
Feed pressure, max	psi	101.5
Feed pressure, min fluidization	psi	7.25
Feed pressure, max fluidization	psi	22
Air consumption, min	scfm	6.36
Air consumption, max	scfm	12.7
Material		ASTM 316L, PE
Temperature range	°F	32–140
Material batch volume	cf	0.05

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.591/1	01.06.591/2
Material		NBR, C	Q
Weight	lb	15.9	15.9

Description	Part No.
Bottom valve unit 21/16 SS, fluid, NBR	01.06.591/1
Bottom valve unit 21/16 SS, fluid, Q	01.06.591/2





21/16 WITH FLUIDIZATION AND ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA (with white fluidization cone).
- ▶ Fitted with actuator in epoxy-coated aluminium.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included.

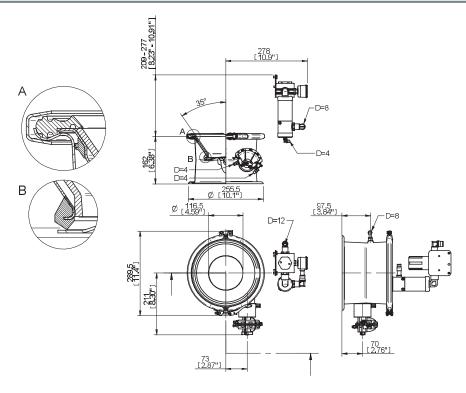
TECHNICAL DATA

Description	Unit	Value
Feed pressure, max	psi	101.5
Feed pressure, min fluidization	psi	7.25
Feed pressure, max fluidization	psi	22
Air consumption, min'	scfm	6.36
Air consumption, max	scfm	12.7
Material		ASTM 316L, Zn, EP, PE
Temperature range	°F	32–140
Material batch volume	cf	0.05

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.785/1	01.06.785/2
Material		NBR, C	Q
Weight	lb	13.8	13.8

Description	Part No.
Bottom valve unit 21/16 Al fluid NBR	01.06.785/1
Bottom valve unit 21/16 Al fluid Q	01.06.785/2





BOTTOM VALVE MODULE 33/19 COMPLETE WITH ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ▶ Used together with conveyor C21 in order to increase the area of the bottom lid.
- ► Reduces the use of fluidization with conveyor C21 when the cone angle is reduced.

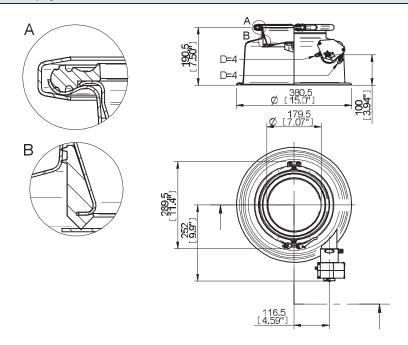
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Volume	cf	0.06
Finish	Ra	≤0.8

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.04.026/1	01.04.026/2
Material		NBR	Q
Weight	lb	14.1	14.1

Description	Part No.
Bottom valve module 33/19 SS cpl NBR	01.04.026/1
Bottom valve module 33/19 SS cpl Q	01.04.026/2





BOTTOM VALVE MODULE 33/19 COMPLETE WITH ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ▶ Used together with conveyor C21 in order to increase the area of the bottom lid.
- ▶ Reduces the use of fluidization with conveyor C21 when the cone angle is reduced.

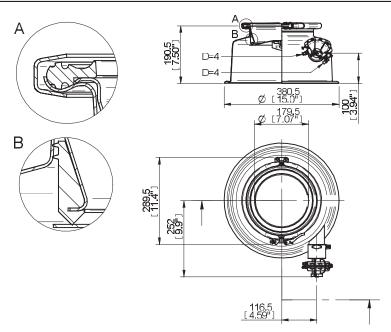
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L, Zn, EP
Volume	cf	0.06
Finish	Ra	≤0.8

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.04.028/1	01.04.028/2
Material		NBR	Q
Weight	lb	11.8	11.8

Description	Part No.
Bottom valve module 33/19 Al cpl, NBR	01.04.028/1
Bottom valve module 33/19 Al cpl, Q	01.04.028/2





3302 WITH TEXTILE FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- ► Automatic filter cleaning.

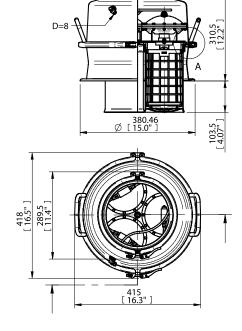
TECHNICAL DATA

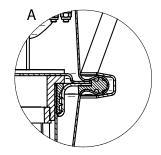
Description	Unit	Value
Feed pressure range	PSI	58–87
Material		ASTM 316L, ePTFE, Polyester
Temperature range	°F	32–140
Filter area	ft²	2.80
Min particle size	μm	5.0

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.887/1	01.03.887/2
Material		NBR, C	Q
Weight	lb	26.2	26.2

Description	Part No.
Filter unit 3302 textile filter int, NBR	01.03.887/1
Filter unit 3302 textile filter int. 0	01.03.887/2







3304 WITH TEXTILE FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- ► Automatic filter cleaning.

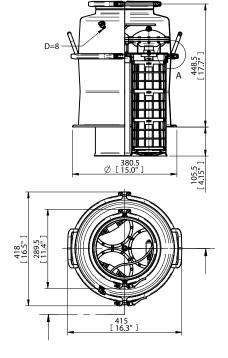
TECHNICAL DATA

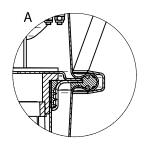
Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, ePTFE, Polyester
Temperature range	°F	32–140
Filter area	ft²	4.52
Min particle size	μm	5.0

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.888/1	01.03.888/2
Material		NBR, C	Q
Weight	lb	30.9	30.9

Description	Part No.
Filter unit 3304 textile filter int, NBR	01.03.888/1
Filter unit 3304 textile filter int, Q	01.03.888/2







3306 WITH TEXTILE FILTER AND INTERNAL FILTER SHOCK



- ➤ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- ► Automatic filter cleaning.

TECHNICAL DATA

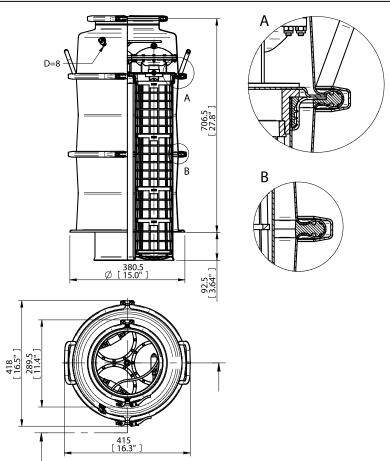
Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, ePTFE, Polyester
Temperature range	°F	32–140
Filter area	ft²	7.53
Min particle size	μm	5.0

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.03.889/1	01.03.889/2	
Material		NBR, C	Q	
Weight	lb	41.7	41.9	



Description	Part No.
Filter unit 3306 textile filter int, NBR	01.03.889/1
Filter unit 3306 textile filter int, Q	01.03.889/2





3302 WITH GORE SINBRAN FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ► The sealings and white rod filters fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- Automatic filter cleaning.

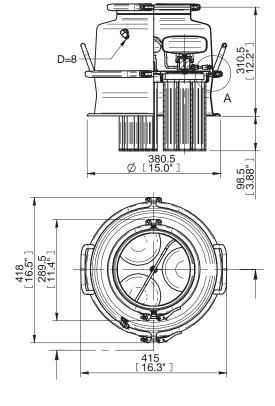
TECHNICAL DATA

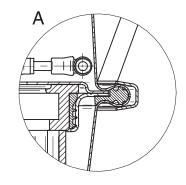
Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32–140
Filter area	ft²	3.55
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01 03 890/1	01 03 890/2	
Material		NBR, C	Q	
Weight	lb	25.1	25.4	

Description	Part No.
Filter unit 3302 Gore Sinbran int, NBR	01.03.890/1
Filter unit 3302 Gore Sinbran int, Q	01.03.890/2







3304 WITH GORE SINBRAN FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ▶ The sealings and white rod filters fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- Automatic filter cleaning.

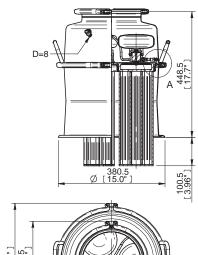
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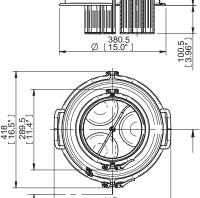
Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32–140
Filter area	ft²	6.14
Min particle size	μm	0.5

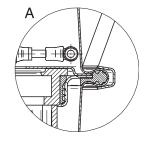
TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.03.891/1	01.03.891/2	
Material		NBR, C	Q	
Weight	lb	29.1	29.2	

Description	Part No.
Filter unit 3304 Gore Sinbran int, NBR	01.03.891/1
Filter unit 3304 Gore Sinbran int, Q	01.03.891/2









3306 WITH GORE SINBRAN FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ► The sealings and white rod filters fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

TECHNICAL DATA

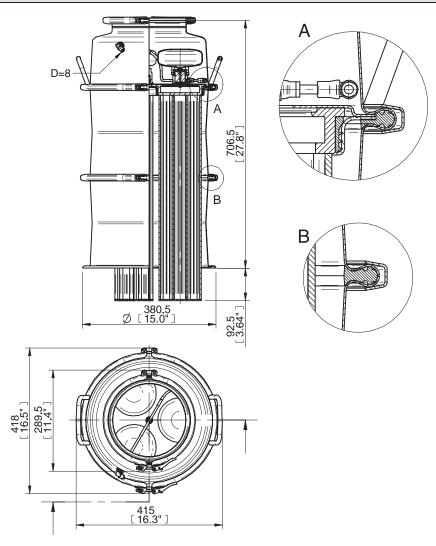
Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32–140
Filter area	ft²	11.0
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value				
		01.03.892/1 01.03.892/2				
Material		NBR, C	Q			
Weight	lb	39.2	39.2			



Description	Part No.
Filter unit 3306 Gore Sinbran int, NBR	01.03.892/1
Filter unit 3306 Gore Sinbran int, Q	01.03.892/2





3302 WITH GORE SINBRAN FILTER AND EXTERNAL FILTER SHOCK

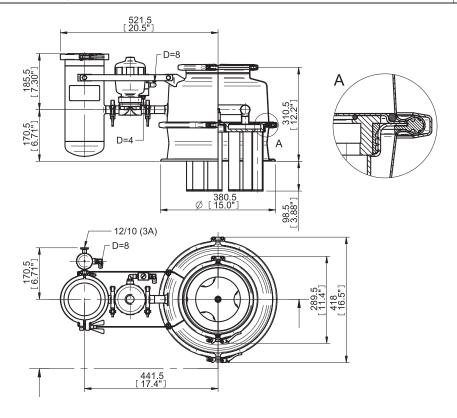


- ➤ Separates the carrying air from the conveyed product.
- ► Hygienic design.
- ► The sealings and white rod filter fulfil the requirements of FDA.
- ► The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Q, PTFE, PE
Temperature range	°F	32–140
Weight	lb	40.8
Filter area	ft²	3.55
Min particle size	μm	0.5

	Description	Part No.
I	Filter unit 3302 Gore Sinbran ext, Q	01.03.896/2





3304 WITH GORE SINBRAN FILTER AND EXTERNAL FILTER SHOCK

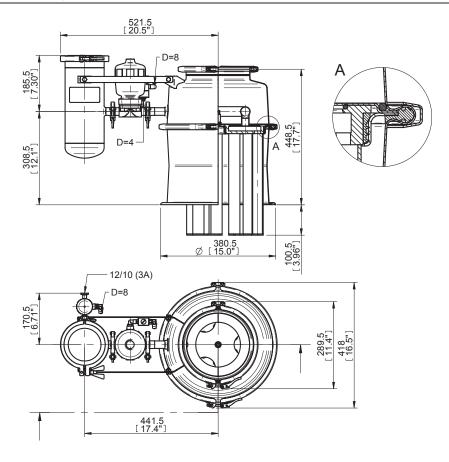


- ▶ Separates the carrying air from the conveyed product.
- ► Hygienic design.
- ► The sealings and white rod filter fulfil the requirements of FDA.
- ► The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Q, PTFE, PE
Temperature range	°F	32–140
Weight	lb	43.7
Filter area	ft²	6.14
Min particle size	μm	0.5

Description	Part No.
Filter unit 3304 Gore Sinbran ext, Q	01.03.897/2





3306 WITH GORE SINBRAN FILTER AND EXTERNAL FILTER SHOCK



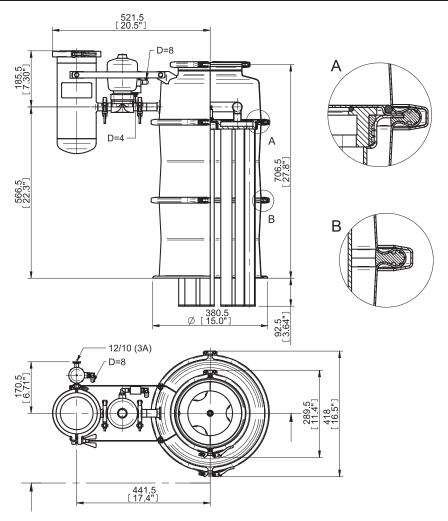
- ▶ Separates the carrying air from the conveyed product.
- ► Hygienic design.
- ► The sealings and white rod filter fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Q, PTFE, PE
Temperature range	°F	32–140
Weight	lb	53.8
Filter area	ft²	11.0
Min particle size	μm	0.5



Description	Part No.
Filter unit 3306 Gore Sinbran ext, Q	01.03.898/2





MAXI L200



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ➤ Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

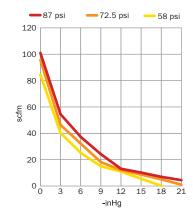
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	21.1–29.7
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	16.8

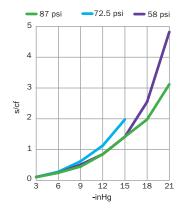
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)							
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	29.7	101	54.5	37.3	24.2	13.1	10.2	6.99	4.45	22.1
72.5	25.4	95.6	46.4	32.2	18.2	12.1	8.69	5.09	1.02	21.0
58	21.2	84.5	40.3	25.2	15.0	11.0	5.51	0.21	-	18.0

EVACUATION TIME

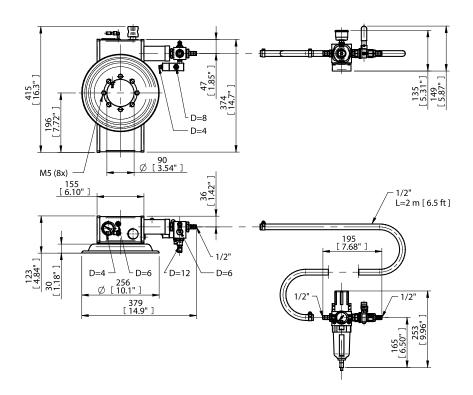
Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)								
psi	scfm	3	6	9	12	15	18	21	-inHg		
87	29.7	0.11	0.25	0.45	0.85	1.42	1.98	3.12	22.1		
72.5	25.4	0.11	0.25	0.51	0.85	1.42	2.55	4.82	21.0		
58	21.2	0.11	0.28	0.62	1.13	1.98	_	_	18.0		







Description	Part No.
Pump unit Maxi L200	01.03.878



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL100–400	31.16.017
Adapter MAXI L100-L1600 cpl	31.02.073



MAXI L400



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

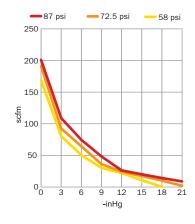
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	42.4–59.3
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	17.0

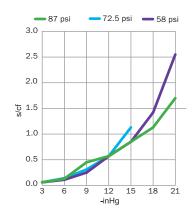
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)							
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	59.3	201	109	74.6	48.3	26.3	20.1	14.2	8.90	22.1
72.5	50.9	191	92.6	64.4	36.2	24.2	17.4	10.2	2.01	21.0
58	42.4	169	80.5	50.4	30.3	22.2	10.8	0.40	-	18.0

EVACUATION TIME

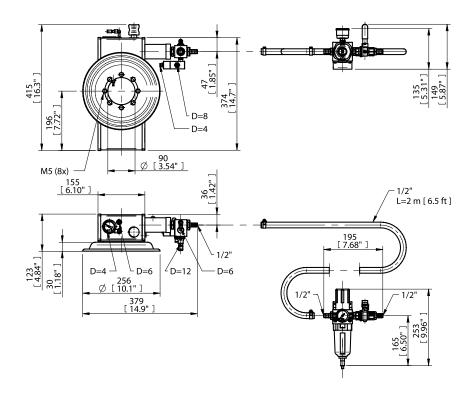
Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)					Max vacuum	
psi	scfm	3	6	9	12	15	18	21	-inHg
87	59.3	0.06	0.13	0.45	0.57	0.85	1.13	1.70	22.1
72.5	50.9	0.06	0.11	0.25	0.57	0.85	1.42	2.55	21.0
58	42.4	0.06	0.14	0.31	0.57	1.13	-	-	18.0







Description	Part No.
Pump unit Maxi L400	01.03.879



ORDERING INFORMATION ACCESSORIES

Description		Part No.
Central exhaust MI	.100–400	31.16.017
Adapter MAXI L100	L1600 cpl	31.02.073



MAXI L600



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

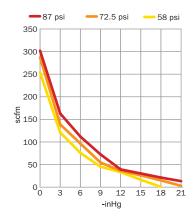
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	63.6–89.0
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	29.3

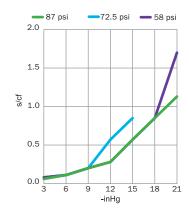
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)						Max vacuum	
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	89.0	302	163	112	72.5	39.2	30.3	21.2	13.3	22.1
72.5	76.3	287	139	96.6	54.5	36.2	26.1	15.0	2.97	21.0
58	63.6	254	121	75.9	45.3	33.3	16.3	0.64	-	18.0

EVACUATION TIME

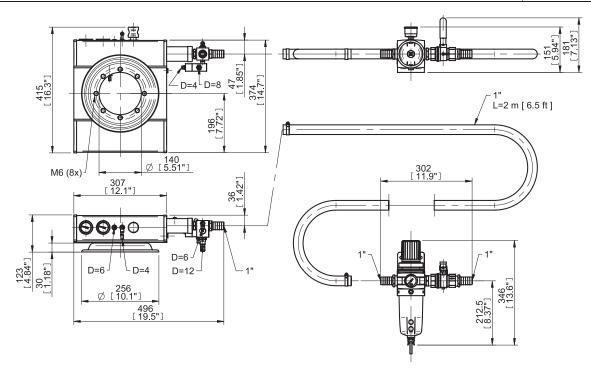
Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)						Max vacuum
psi	scfm	3	6	9	12	15	18	21	-inHg
87	189	0.06	0.11	0.20	0.28	0.57	0.85	1.13	22.1
72.5	76.3	0.08	0.11	0.20	0.28	0.57	0.85	1.70	21.0
58	63.6	0.08	0.11	0.20	0.57	0.85	_	-	18.0







Description	Part No.
Pump unit Maxi L600	01.03.880



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL600–800	31.16.018
Adapter MAXI L100-L1600 cpl	31.02.073



MAXI L800



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

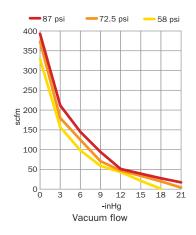
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	84.8–119
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	29.3

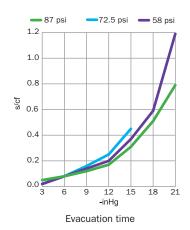
VACUUM FLOW

Feed pressure	Air consumption		Vacuu	Max vacuum						
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	119	393	212	145	94.1	51.1	39.2	27.5	17.2	22.1
72.5	102	373	180	125	70.6	47.0	33.7	19.7	4.03	21.0
58	84.8	329	157	98.1	58.9	43.2	21.2	0.85	-	18.0

EVACUATION TIME

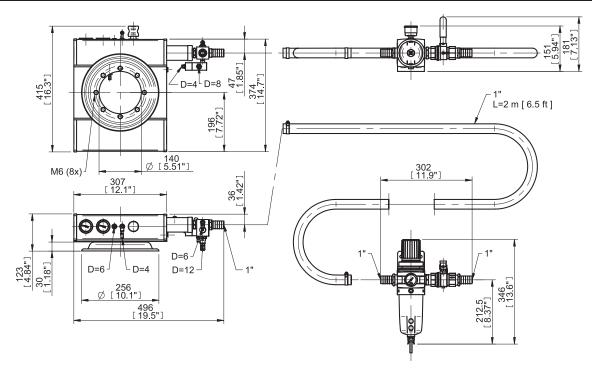
Feed pressure	Air consumption	E	Evacuation time (s/cf) at different vacuum levels (-inHg)							
psi	scfm	3	6	9	12	15	18	21	-inHg	
87	119	0.05	0.08	0.12	0.17	0.31	0.51	0.79	22.1	
72.5	102	0.02	0.08	0.14	0.20	0.37	0.59	1.19	21.0	
58	84.8	0.02	0.08	0.16	0.25	0.45	-	ı	18.0	







Description	Part No.
Pump unit Maxi L800	01.03.881



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL600–800	31.16.018
Adapter MAXI L100-L1600 cpl	31.02.073



MAXI L1200



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

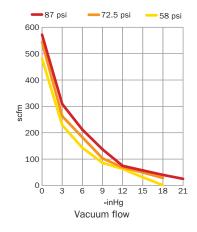
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	127–178
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	33.1

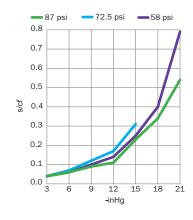
VACUUM FLOW

Feed pressure	Air consumption		Vacuu	Max vacuum						
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	178	572	309	212	137	74.4	57.2	40.0	25.2	22.1
72.5	153	543	263	183	103	68.7	49.2	28.6		21.0
58	127	481	229	143	85.8	62.9	30.9	1.06	-	18.0

EVACUATION TIME

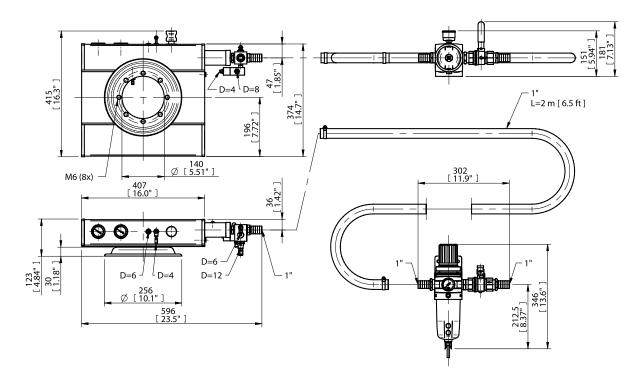
Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)							
psi	scfm	3	6	9	12	15	18	21	-inHg	
87	178	0.04	0.06	0.09	0.11	0.23	0.34	0.54	22.1	
72.5	153	0.04	0.06	0.10	0.14	0.25	0.40	0.79	21.0	
58	127	0.04	0.07	0.12	0.17	0.31	-	_	18.0	







Description	Part No.
Pump unit Maxi L1200	01.03.882



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL1200	31.16.054
Adapter MAXI L100-L1600 cpl	31.02.073



33/26 D=76 TANGENTIAL CONNECTION WITH MOUNTING BRACKET



- ▶ Connects the conveyor to the pipe system.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- Standard connection.

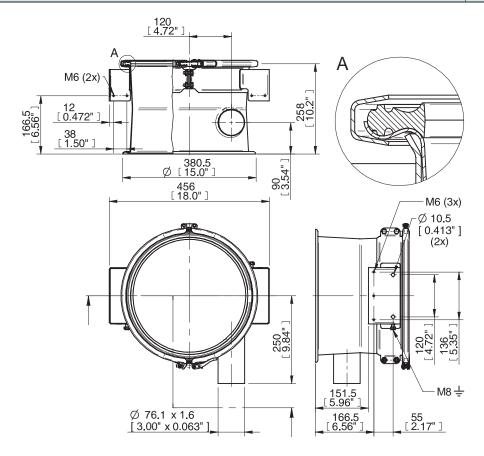
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Material batch volume below connection pipe	cf	0.15

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.884/1	01.03.884/2
Material		NBR	Q
Weight	lb	14.3	14.4

Description	Part No.
Connection unit 33/26 D=76 tang, NBR	01.03.884/1
Connection unit 33/26 D=76 tang, Q	01.03.884/2





33/26 D=76 TANGENTIAL CONNECTION WITH MOUNTING BRACKET 3-A



- ▶ Connects the conveyor to the pipe system.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ 3-A connection.

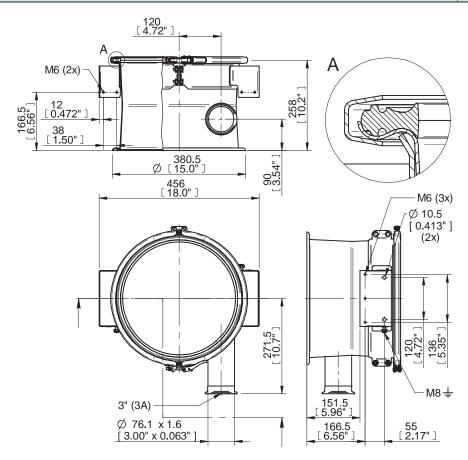
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Material batch volume below connection pipe	cf	0.15

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.885/1	01.03.885/2
Material		NBR	Q
Weight	lb	15.4	15.4

Description	Part No.
Connection unit 33/26 D=75 tang 3-A, NBR	01.03.885/1
Connection unit 33/26 D=75 tang 3-A, Q	01.03.885/2





33/34 WITH ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ Fitted with actuator in stainless steel.

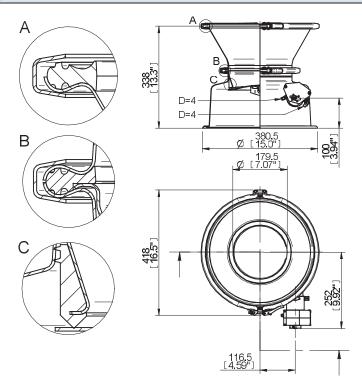
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L
Temperature range	°F	32–140
Material batch volume	cf	0.35

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.907/1	01.03.907/2
Material		NBR	Q
Weight	lb	20.3	20.3

Description	Part No.
Bottom valve unit 33/34 SS, NBR	01.03.907/1
Bottom valve unit 33/34 SS, Q	01.03.907/2





33/34 WITH ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ Fitted with actuator in epoxy-coated aluminium.

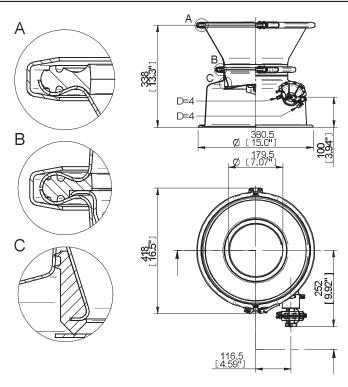
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Zn, EP
Temperature range	°F	32–140
Material batch volume	cf	0.35

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.913/1	01.03.913/2
Material		NBR	Q
Weight	lb	17.6	17.6

Description	Part No.
Bottom valve unit 33/34 AI, NBR	01.03.913/1
Bottom valve unit 33/34 Al, Q	01.03.913/2





33/34 WITH FLUIDIZATION AND ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA (with white fluidization cone).
- ▶ Fitted with actuator in stainless steel.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included.

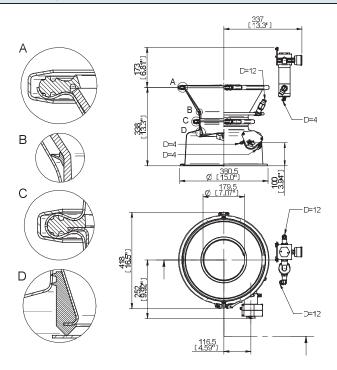
TECHNICAL DATA

Description	Unit	Value
Feed pressure, max	psi	101.5
Feed pressure, min fluidization	psi	7.25
Feed pressure, max fluidization	psi	22
Air consumption, min	scfm	12.7
Air consumption, max	scfm	25.4
Material		ASTM 316L, PE
Temperature range	°F	32–140
Material batch volume	cf	0.32

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.909/1	01.03.909/2
Material		NBR, C	Q
Weight	lb	24.9	24.9

Description	Part No.
Bottom valve unit 33/34 SS, fluid, NBR	01.03.909/1
Bottom valve unit 33/34 SS, fluid, Q	01.03.909/2





33/34 WITH FLUIDIZATION AND ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA (with white fluidization cone).
- ▶ Fitted with actuator in epoxy-coated aluminium.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included.

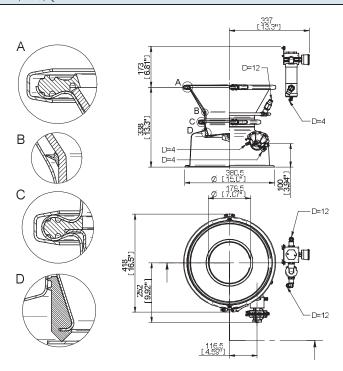
TECHNICAL DATA

Description	Unit	Value
Feed pressure, max	psi	101.5
Feed pressure, min fluidization	psi	7.25
Feed pressure, max fluidization	psi	22
Air consumption, min	scfm	12.7
Air consumption, max	scfm	25.4
Material		ASTM 316L, Zn, EP,PE
Temperature range	°F	32–140
Material batch volume	cf	0.32

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.915/1	01.03.915/2
Material		NBR, C	Q
Weight	lb	22.3	22.3

Description	Part No.
Bottom valve unit 33/34 Al, fluid, NBR	01.03.915/1
Bottom valve unit 33/34 Al. fluid. O	01.03.915/2





5602 WITH TEXTILE FILTER, INTERNAL FILTER SHOCK AND CONNECTION MODULE



- ➤ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- ► Automatic filter cleaning.

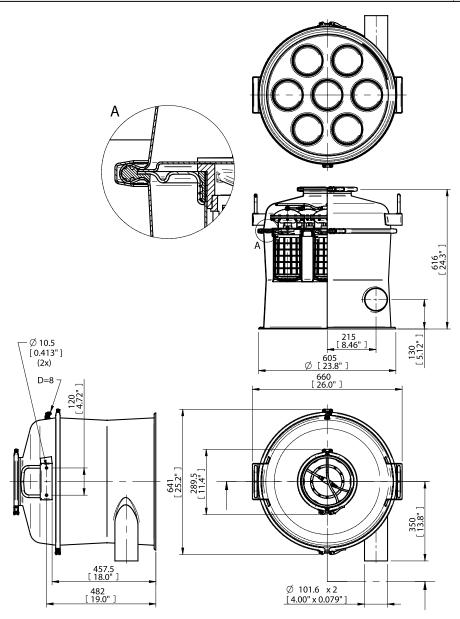
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Polyester
Temperature range	°F	32–140
Filter area	ft²	6.46
Min particle size	μm	5.0

Description	Unit	Value	
		01.06.820/1	01.06.820/2
Material		NBR, C	Q
Weight	lb	75.4	75.4



Description	Part No.
Filter unit 5602 textile filter int tang, NBR	01.06.820/1
Filter unit 5602 textile filter int tang, Q	01.06.820/2





5602 WITH TEXTILE FILTER, INTERNAL FILTER SHOCK AND 3-A CONNECTION MODULE



- Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- ► Automatic filter cleaning.

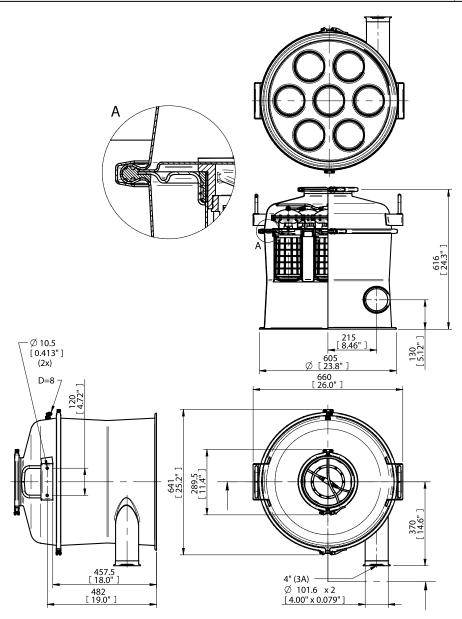
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Polyester
Temperature range	°F	32–140
Filter area	ft²	6.46
Min particle size	μm	5.0

Description	Unit	Value		
		01.06.821/1	01.06.821/2	
Material		NBR, C	Q	
Weight	lb	75.8	76.1	



Description	Part No.
Filter unit 5602 textile filter int tang 3-A NBR	01.06.821/1
Filter unit 5602 textile filter int tang 3-A Q	01.06.821/2





5604 WITH TEXTILE FILTER AND INTERNAL FILTER SHOCK



- ➤ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- ► Automatic filter cleaning.

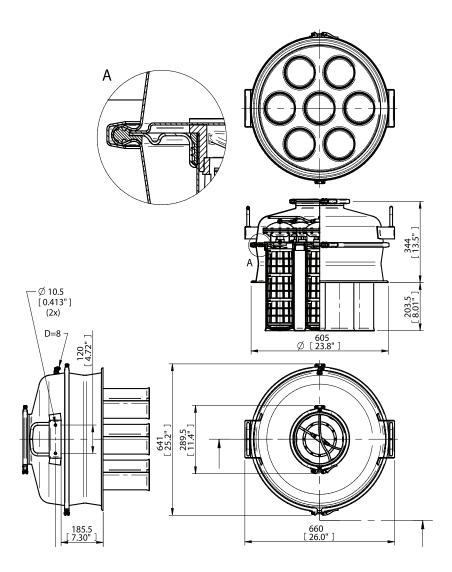
TECHNICAL DATA

Description	Unit	Value
Feed pressure	psi	58–87
Material		ASTM 316L, Polyester
Temperature range	°F	32–140
Filter area	ft²	10.5
Min particle size	μm	5.0

Description	Unit	Value		
		01.06.822/1 01.06.822/2		
Material		NBR, C	Q	
Weight	lb	64.4	64.6	



Description	Part No.
Filter unit 5604 textile filter int NBR	01.06.822/1
Filter unit 5604 textile filter int Q	01.06.822/2





5606 WITH TEXTILE FILTER AND INTERNAL FILTER SHOCK



- ➤ Separates the carrying air from the conveyed product.
- ▶ The sealings fulfil the requirements of FDA.
- ▶ The filter bags are of food quality.
- ► Automatic filter cleaning.

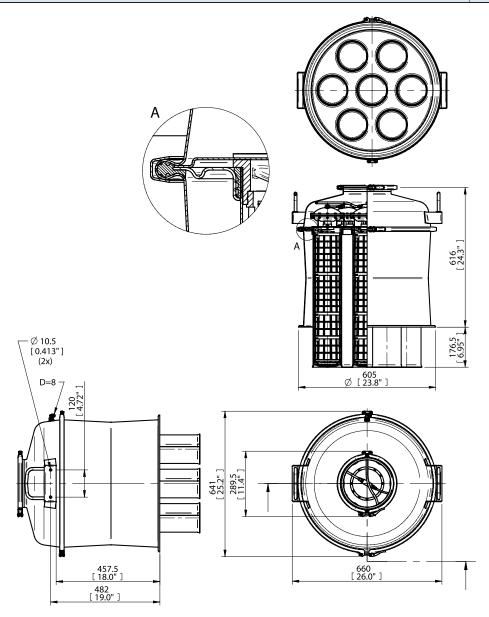
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Polyester
Temperature range	°F	32–140
Filter area	ft²	17.7
Min particle size	μm	5.0

Description	Unit	Value		
		01.06.823/1 01.06.823/2		
Material		NBR, C	Q	
Weight	lb	81.6	81.8	



Description	Part No.
Filter unit 5606 textile filter int NBR	01.06.823/1
Filter unit 5606 textile filter int Q	01.06.823/2





5602 WITH GORE SINBRAN FILTER, INTERNAL FILTER SHOCK AND CONNECTION MODULE



- Separates the carrying air from the conveyed product.
- ► The sealings and white rod filters fulfil the requirements of FDA.
- ► The black rod filters are antistatic and of food quality.
- Automatic filter cleaning.

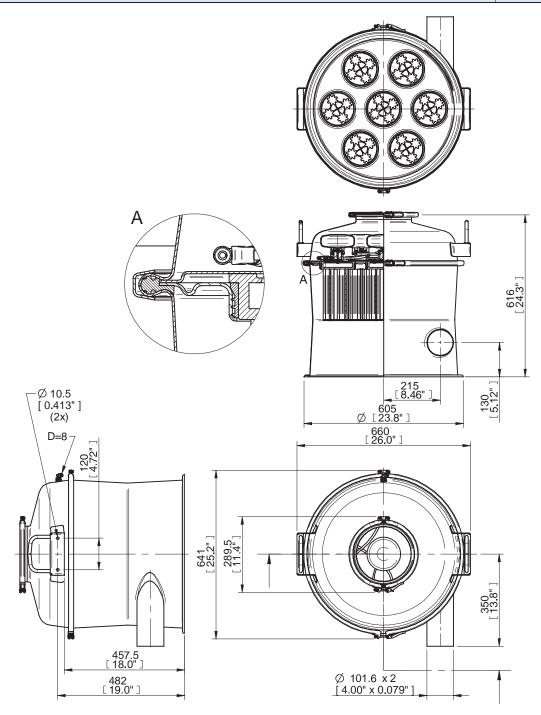
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32–140
Filter area	ft²	8.29
Min particle size	μm	0.5

Description	Unit	Value		
		01.06.824/1	01.06.824/2	
Material		NBR, C	Q	
Weight	lb	75.0	75.2	



Description	Part No.
Filter unit 5602 Gore Sinbran int tang, NBR	01.06.824/1
Filter unit 5602 Gore Sinbran int tang, Q	01.06.824/2





5602 WITH GORE SINBRAN FILTER, INTERNAL FILTER SHOCK AND 3-A CONNECTION MODULE



- Separates the carrying air from the conveyed product.
- ► The sealings and white rod filters fulfil the requirements of FDA.
- ► The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

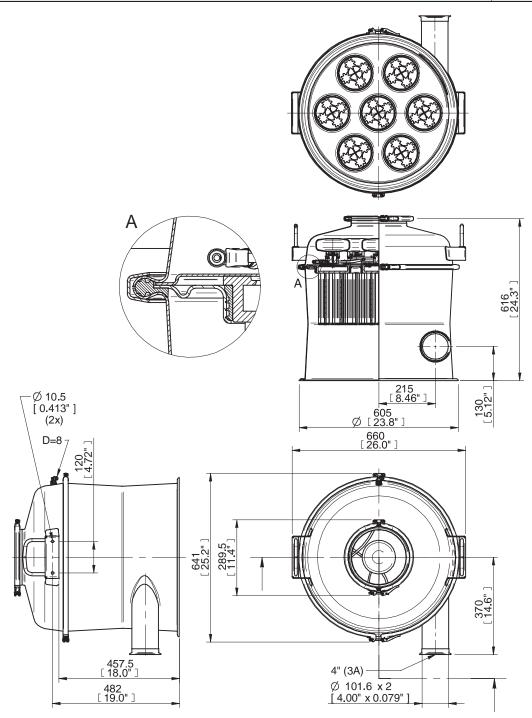
TECHNICAL DATA

Description	Unit	Value
Feed pressure	psi	58–87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32–140
Filter area	ft²	8.29
Min particle size	μm	0.5

Description	Unit	Value				
		01.06.825/1	01.06.825/2			
Material		NBR, C	Q			
Weight	kg	75.8	76.1			



Description	Part No.
Filter unit 5602 Gore Sinbran int 3-A tang, NBR	01.06.825/1
Filter unit 5602 Gore Sinbran int 3-A tang, Q	01.06.825/2





5604 WITH GORE SINBRAN FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ► The sealings and white rod filters fulfil the requirements of FDA.
- ► The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

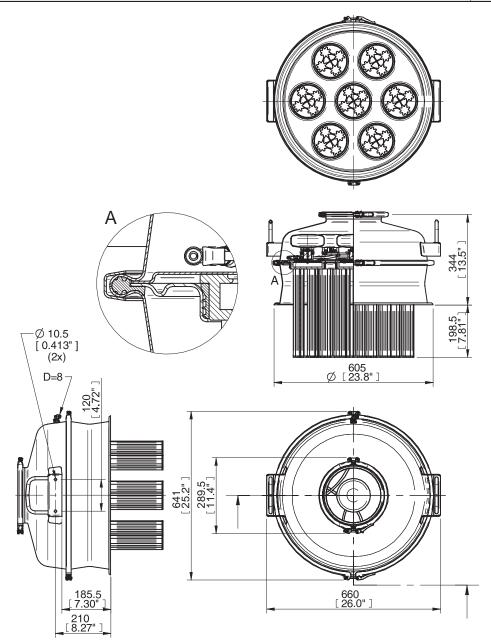
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32–140
Filter area	ft²	14.3
Min particle size	μm	0.5

Description	Unit	Value				
		01.06.826/1	01.06.826/2			
Material		NBR, C	Q			
Weight	lb	60.4	60.4			



Description	Part No.
Filter unit 5604 Gore Sinbran int, NBR	01.06.826/1
Filter unit 5604 Gore Sinbran int Q	01.06.826/2





5606 WITH GORE SINBRAN FILTER AND INTERNAL FILTER SHOCK



- ▶ Separates the carrying air from the conveyed product.
- ► The sealings and white rod filters fulfil the requirements of FDA.
- ▶ The black rod filters are antistatic and of food quality.
- ► Automatic filter cleaning.

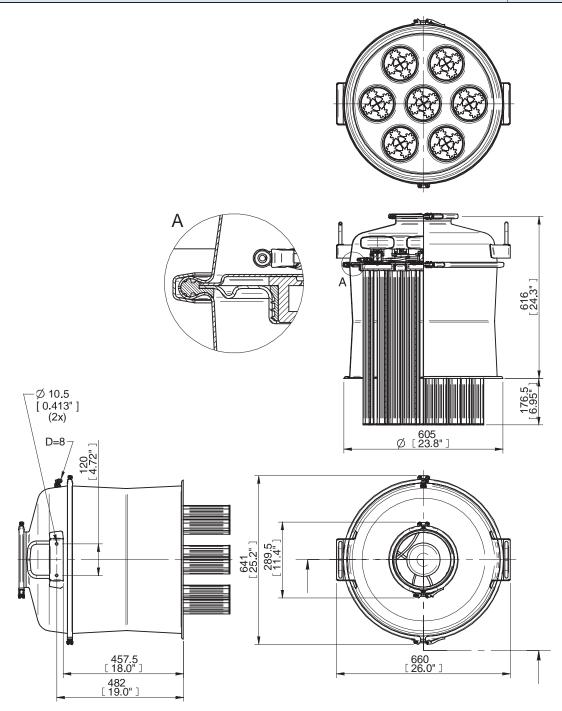
TECHNICAL DATA

Description	Unit	Value
Feed pressure	psi	58–87
Material		ASTM 316L, PTFE, PE
Temperature range	°F	32–140
Filter area	ft²	25.6
Min particle size	μm	0.5

Description	Unit	Value				
		01.06.827/1	01.06.827/2			
Material		NBR, C	Q			
Weight	lb	75.8	76.1			



Description	Part No.
Filter unit 5606 Gore Sinbran int NBR	01.06.827/1
Filter unit 5606 Gore Sinbran int Q	01.06.827/2





MAXI L400



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ➤ Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

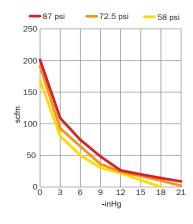
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	42.4–59.3
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	17.0

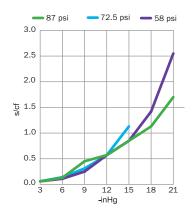
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)							
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	59.3	201	109	74.6	48.3	26.3	20.1	14.2	8.90	22.1
72.5	50.9	191	92.6	64.4	36.2	24.2	17.4	10.2	2.01	21.0
58	42.4	169	80.5	50.4	30.3	22.2	10.8	0.40	-	18.0

EVACUATION TIME

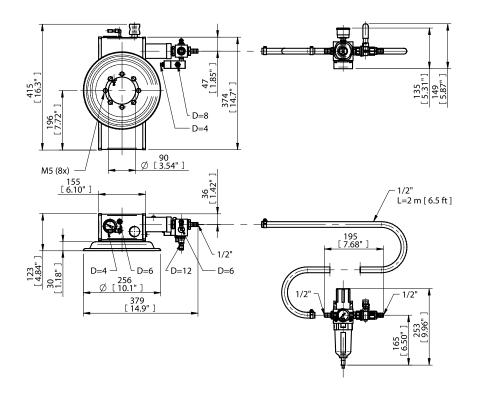
Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)						
psi	scfm	3	6	9	12	15	18	21	-inHg
87	59.3	0.06	0.13	0.45	0.57	0.85	1.13	1.70	22.1
72.5	50.9	0.06	0.11	0.25	0.57	0.85	1.42	2.55	21.0
58	42.4	0.06	0.14	0.31	0.57	1.13	-	-	18.0







Descrip	tion	Part No.
Pump u	nit Maxi L400	01.03.879



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL100-400	31.16.017
Adapter MAXI L100-L1600 cpl	31.02.073



MAXI L600



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

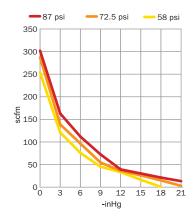
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	63.6–89.0
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	29.3

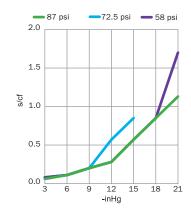
VACUUM FLOW

	Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)						Max vacuum	
	psi	scfm	0	3		9	12	15	18	21	-inHg
Г	87	89.0	302	163	112	72.5	39.2	30.3	21.2	13.3	22.1
	72.5	76.3	287	139	96.6	54.5	36.2	26.1	15.0	2.97	21.0
	58	63.6	254	121	75.9	45.3	33.3	16.3	0.64	-	18.0

EVACUATION TIME

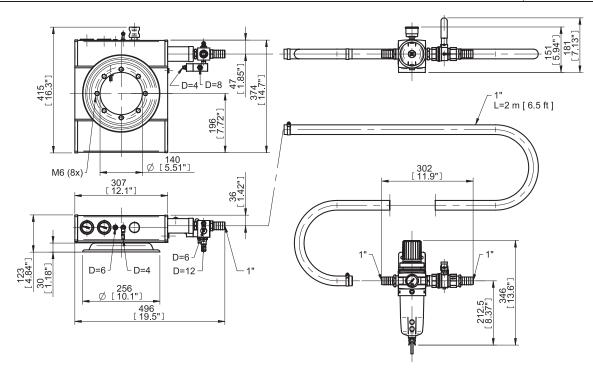
Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)						Max vacuum
psi	scfm	3	6	9	12	15	18	21	-inHg
87	189	0.06	0.11	0.20	0.28	0.57	0.85	1.13	22.1
72.5	76.3	0.08	0.11	0.20	0.28	0.57	0.85	1.70	21.0
58	63.6	0.08	0.11	0.20	0.57	0.85	-	-	18.0







Description	Part No.
Pump unit Maxi L600	01.03.880



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL600–800	31.16.018
Adapter MAXI L100-L1600 cpl	31.02.073



MAXI L800



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

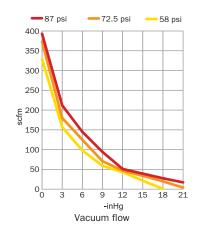
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	84.8–119
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	29.3

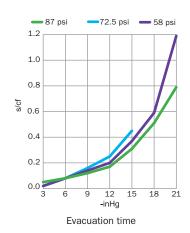
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)						Max vacuum	
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	119	393	212	145	94.1	51.1	39.2	27.5	17.2	22.1
72.5	102	373	180	125	70.6	47.0	33.7	19.7	4.03	21.0
58	84.8	329	157	98.1	58.9	43.2	21.2	0.85	-	18.0

EVACUATION TIME

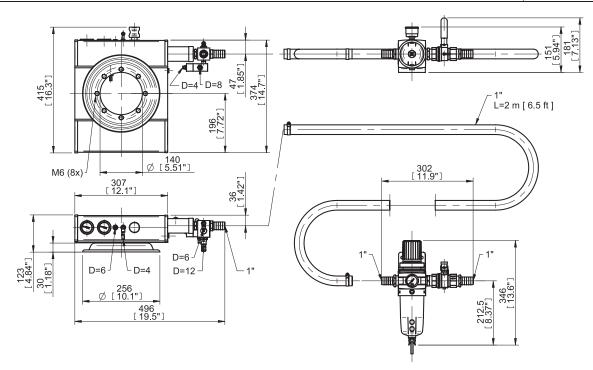
Feed pressure	Air consumption	E	Evacuation time (s/cf) at different vacuum levels (-inHg)						Max vacuum
psi	scfm	3	6	9	12	15	18	21	-inHg
87	119	0.05	0.08	0.12	0.17	0.31	0.51	0.79	22.1
72.5	102	0.02	0.08	0.14	0.20	0.37	0.59	1.19	21.0
58	84.8	0.02	0.08	0.16	0.25	0.45	-	-	18.0







Description	Part No.
Pump unit Maxi L800	01.03.881



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL600-800	31.16.018
Adapter MAXI L100-L1600 cpl	31.02.073



MAXI L1200



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- ► Regulator kit is included.

TECHNICAL DATA

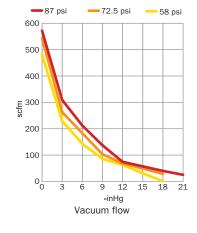
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	127–178
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	33.1

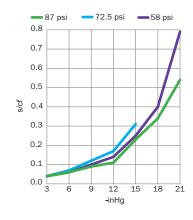
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)						Max vacuum	
psi	scfm	0	3	6	9	12	15	18	21	-inHg
87	178	572	309	212	137	74.4	57.2	40.0	25.2	22.1
72.5	153	543	263	183	103	68.7	49.2	28.6		21.0
58	127	481	229	143	85.8	62.9	30.9	1.06	-	18.0

EVACUATION TIME

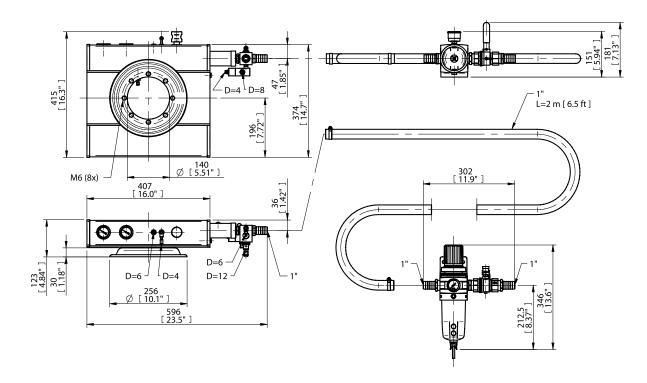
Feed pressure	Air consumption		Evacuation time (s/cf) at different vacuum levels (-inHg)							
psi	scfm	3	6	9	12	15	18	21	-inHg	
87	178	0.04	0.06	0.09	0.11	0.23	0.34	0.54	22.1	
72.5	153	0.04	0.06	0.10	0.14	0.25	0.40	0.79	21.0	
58	127	0.04	0.07	0.12	0.17	0.31	-	-	18.0	







Description	Part No.
Pump unit Maxi L1200	01.03.882



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL1200	31.16.054
Adapter MAXI L100-L1600 cpl	31.02.073



MAXI L1600



- ▶ Power source of the vacuum conveyor.
- ► High vacuum flow.
- ► Short response time.
- ► Compact size and low weight in comparison to conventional mechanical pumps.
- Regulator kit is included.

TECHNICAL DATA

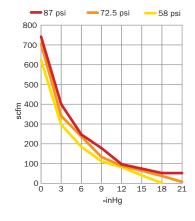
Description	Unit	Value
Feed pressure range	psi	58–87
Air consumption range	scfm	170–237
Vacuum range	-inHg	18–22
Noise level range	dBA	72–76
Material		AI, PPS, SS, NBR
Temperature range	°F	32–140
Weight	lb	43.0

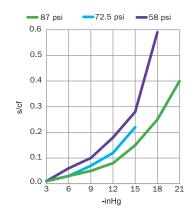
VACUUM FLOW

Feed pressure	Air consumption		Vacuum flow (scfm) at different vacuum levels (-inHg)							Max vacuum
psi	scfm		3	6	9	12	15	18	21	-inHg
87	237	742	400	247	178	96.4	74.2	51.9	32.6	22.1
72.5	203	705	341	237	133	89.0	63.8	37.1	7.42	21.0
58	170	623	297	185	111	81.6	40.0	1.48	-	18.0

EVACUATION TIME

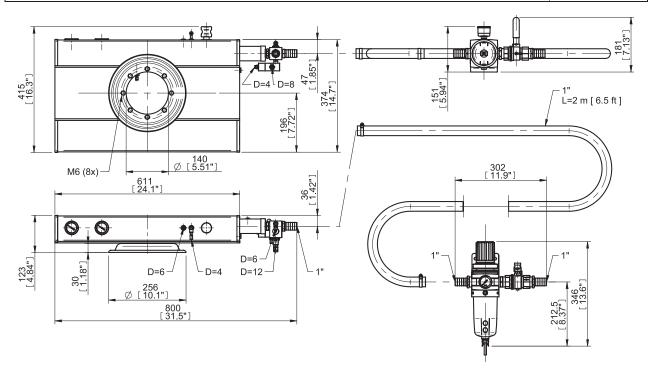
Feed pressure	Air consumption	Ev	Evacuation time (s/cf) at different vacuum levels (-InHg)							
psi	scfm	3	6	9	12	15	18	21	-inHg	
87	237	0.01	0.03	0.05	0.08	0.15	0.25	0.40	22.1	
72.5	203	0.01	0.06	0.10	0.18	0.28	0.59	_	21.0	
58	170	0.01	0.03	0.07	0.12	0.22	_	_	18.0	







Description	Part No.
Pump unit Maxi L1600	01.03.883



ORDERING INFORMATION ACCESSORIES

Description	Part No.
Central exhaust MLL1600	31.16.019
Adapter MAXI L100-L1600 cpl	31.02.073



56/43, D=102 TANGENTIAL CONNECTION



- ▶ Connects the conveyor to the pipe system.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- Standard connection.

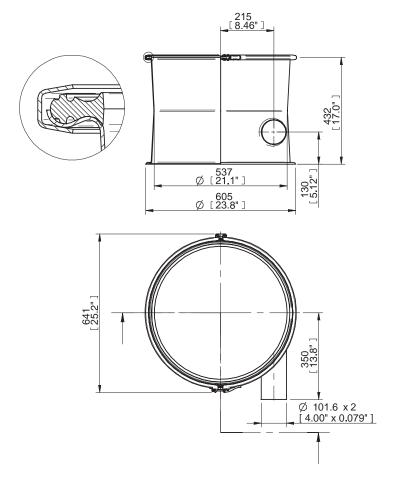
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Material batch volume below connection pipe	cf	0.94

TECHNICAL DATA, SPECIFIC

Description	Unit	Value					
		01.06.239/1	01.06.239/2				
Material		NBR	Q				
Weight	lb	27.6	27.6				

Description	Part No.
Connection unit 56/43 D=102 tang, NBR	01.06.239/1
Connection unit 56/43 D=102 tang, Q	01.06.239/2





56/43, D=102 TANGENTIAL CONNECTION 3-A



- ▶ Connects the conveyor to the pipe system.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ 3-A connection.

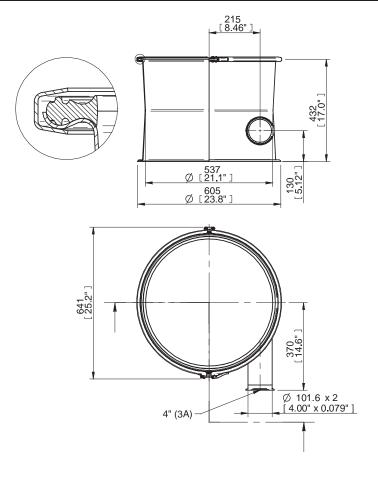
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Material batch volume below connection pipe	cf	0.94

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.240/1	01.06.240/2
Material		NBR	Q
Weight	lb	28.0	28.0

Description	Part No.
Connection unit 56/43 D=102 tang 3-A, NBR	01.06.240/1
Connection unit 56/43 D=102 tang 3-A, Q	01.06.240/2





56/57 WITH ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ Fitted with actuator in stainless steel.

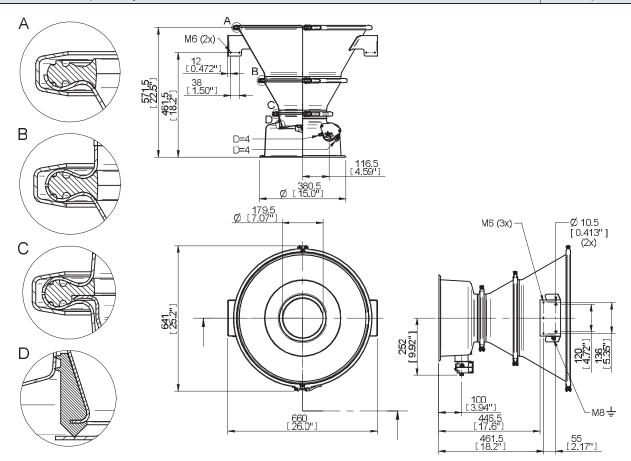
TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L
Temperature range	°F	32–140
Material batch volume	cf	1.61

Description	Unit	Value		
		01.06.816/1	01.06.816/2	
Material		NBR	Q	
Weight	lb	38.6	38.6	



Description	Part No.
Bottom valve unit 56/57 SS, NBR	01.06.816/1
Bottom valve unit 56/57 SS, Q	01.06.816/2





56/57 WITH ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA.
- ▶ Fitted with actuator in epoxy-coated aluminium.

TECHNICAL DATA

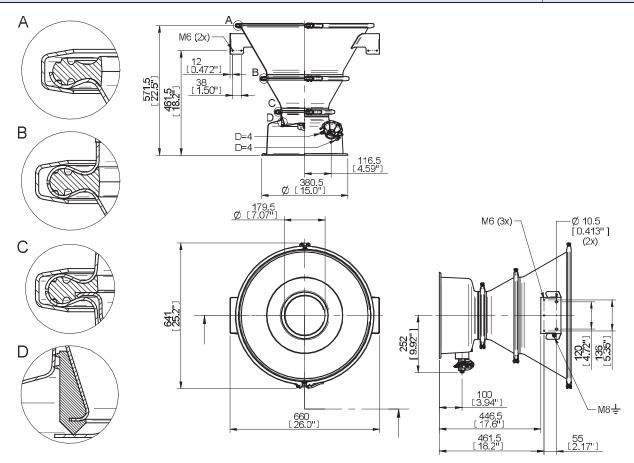
Description	Unit	Value
Feed pressure range	psi	58–87
Material		ASTM 316L, Zn, EP
Temperature range	°F	32–140
Material batch volume	cf	1.61

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.06.818/1	01.06.818/2	
Material		NBR	Q	
Weight	lb	36.4	36.4	



Description	Part No.
Bottom valve unit 56/57 Al, NBR	01.06.818/1
Bottom valve unit 56/57 Al, Q	01.06.818/2





56/57 WITH FLUIDIZATION AND ACTUATOR IN STAINLESS STEEL



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA (with white fluidization cone).
- ▶ Fitted with actuator in stainless steel.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included.

TECHNICAL DATA

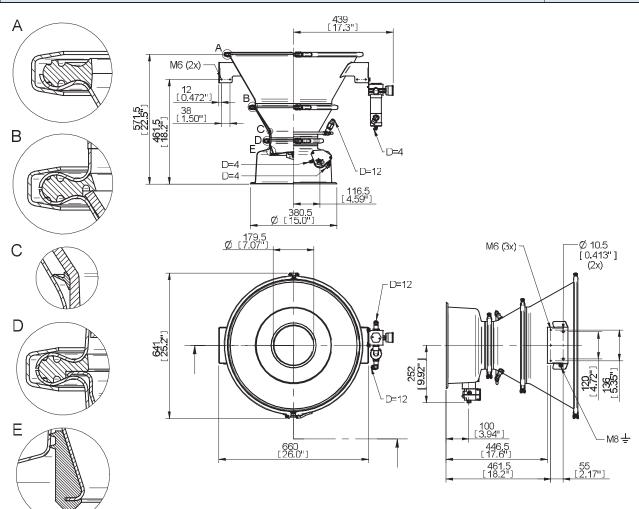
Description	Unit	Value
Feed pressure, max	psi	101.5
Feed pressure, min fluidiztion	psi	7.25
Feed pressure, max fluidization	psi	22
Air consumption	scfm	12.7
Air consumption	scfm	25.4
Material		ASTM 316L, PE
Temperature range	°F	32–140
Material batch volume	cf	1.58

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.06.817/1	01.06.817/2	
Material		NBR, C	Q	
Weight	lb	43.2	43.2	



Description	Part No.
Bottom valve unit 56/57 SS, fluid, NBR	01.06.817/1
Bottom valve unit 56/57 SS, fluid, Q	01.06.817/2





56/57 WITH FLUIDIZATION AND ACTUATOR IN ALUMINIUM



- ▶ Unloads the conveyed product.
- ► Hygienic design.
- ► Fulfils the requirements of FDA (with white fluidization cone).
- ▶ Fitted with actuator in epoxy-coated aluminium.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included.

TECHNICAL DATA

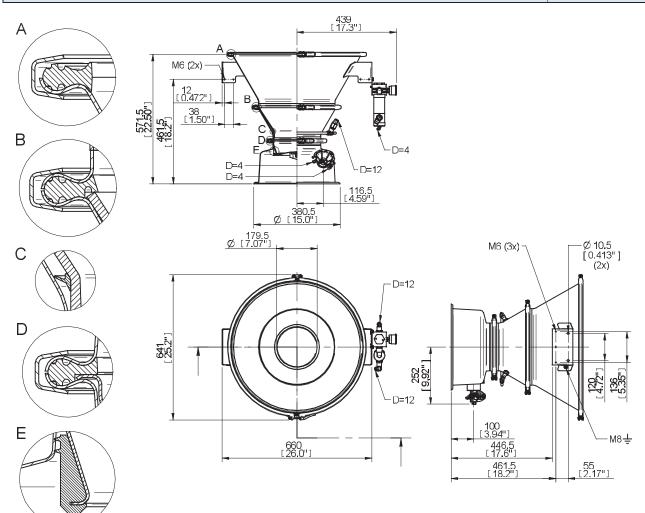
Description	Unit	Value
Feed pressure, max	psi	101.5
Feed pressure, min fluidization	psi	7.25
Feed pressure, max fluidization	psi	22
Air consumption	scfm	12.7
Air consumption	scfm	25.4
Material		ASTM 316L, Zn, EP, PE
Temperature range	°F	32–140
Material batch volume	cf	1.58

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.06.819/1	01.06.819/2	
Material		NBR, C	Q	
Weight	lb	41.0	41.0	



Description	Part No.
Bottom valve unit 56/57 AI, fluid, NBR	01.06.819/1
Bottom valve unit 56/57 AI, fluid, Q	01.06.819/2





CONTROL UNIT CU-1A/B, CU-2A/B



- ► Controls the functions of the conveyor.
- ► Fully pneumatic.
- ▶ The maximum recommended distance between the conveyor and control unit is 33 feet when feed pressure is 87 psi.
- ► Separate order for the tubing kit.
- ► Function of CU-1/2A: the bottom valve is open when the conveyor is shut off.
- ► Function of the CU-1/2B: the bottom valve is closed when the conveyor is shut off.

TECHNICAL DATA

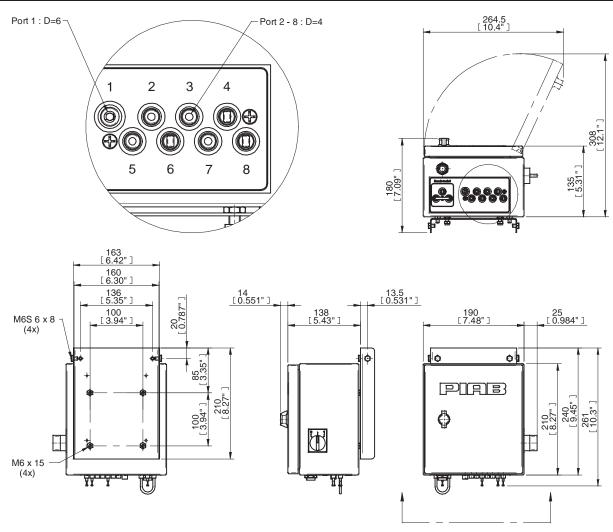
Description	Unit	Value
Feed pressure	psi	58-87
Material		ASTM 316L
Temperature range	°F	32-122
Safety classification		IP54

TECHNICAL DATA, SPECIFIC

Description	Unit	Value			
		01.03.918	01.03.919	01.03.920	01.03.921
Weight	lb	9.48	9.48	9.77	9.77



Description	Part No.
Control unit CU-1A, bracket	01.03.918
Control unit CU-1B, bracket	01.03.919
Control unit CU-2A, bracket	01.03.920
Control unit CU-2B, bracket	01.03.921



ORDERING INFORMATION, ACCESSORIES

Description	Part No.
Nylon tubing kit, Standard CU-C21	01.06.978
Nylon tubing kit, fluid, CU-C21	01.06.879
Nylon tubing kit standard CU-C33	01.03.929
Nylon tubing kit, fluidization CU-C33	01.03.930
Nylon tubing kit, Standard CU-C56	01.06.981
Nylon tubing kit, fluidization CU-C56	01.06.982
Remote control CU-1/2 Start/Stop with emergency stop	01.03.924
Mounting clamp control unit CU-1/2	01.04.487



CONTROL UNIT PPT/R



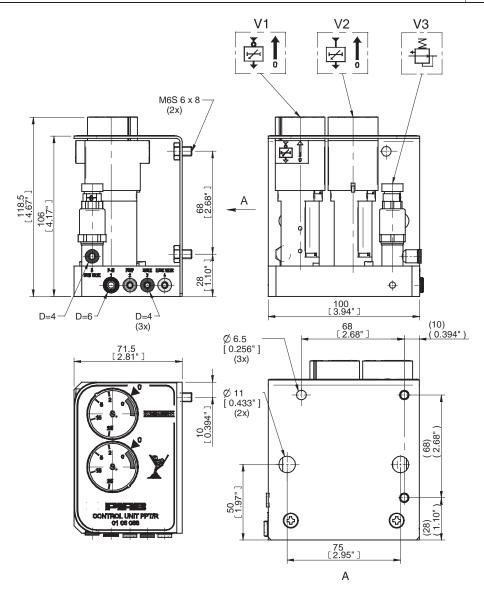
- ➤ Controls the functions of the conveyor, start/stop function is not included.
- ► Fully pneumatic.
- ➤ The maximum recommended distance between the conveyor and control unit is 33 feet when feed pressure is 87 psi.
- ► Separate order for the tubing kit.

TECHNICAL DATA

Description	Unit	Value
Feed pressure	psi	58–87
Material		AI, PA
Temperature range	°F	32-122
Weight	lb	1.90



Description	Part No.
Control unit PPT/R	01.06.066



ORDERING INFORMATION, ACCESSORIES

Description	Part No.
Nylon tubing kit, PPT/R C21	01.06.980
Nylon tubing kit, PPT/R C33	01.03.931
Nylon tubing kit, PPT/R C56	01.06.983



CONTROL UNIT PPT/RS



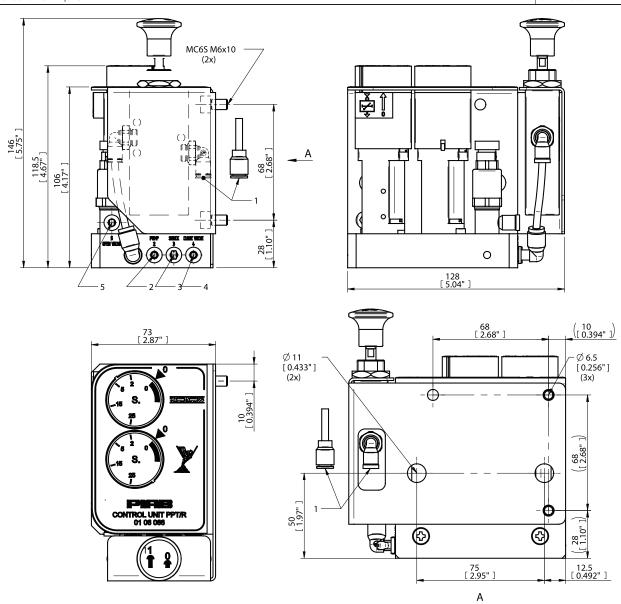
- ▶ Controls the functions of the conveyor.
- ► Fully pneumatic.
- ▶ The maximum recommended distance between the conveyor and control unit is 33 feet when feed pressure is 87 psi.
- ► Separate order for the tubing kit.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		AI, PA
Temperature range	°F	32–122
Weight	lb	2.87
Min particle size, filtered air	μm	5



Description	Part No.
Control unit PPT/RS	01.11.636



ORDERING INFORMATION, ACCESSORIES

Description	Part No.
Nylon tubing kit, PPT/RS-C2100-64	01.17.509



VALVE UNIT VU EP-1

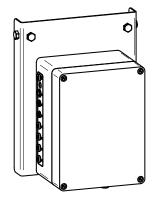


- ▶ Valve unit with electro-pneumatic valves that can be used to control PIAB's vacuum conveyors with external PLC or similar electrical control system.
- ➤ Simple installation: Prepared for connection to the vacuum conveyor's main functions; start the pump, close the bottom valve, open the bottom valve, fluidization and the filter shock.
- ▶ Prepared to be fitted with six electro-pneumatic valves. The unit is delivered with four valves and two unused spare positions.
- ► The valve unit has an electrical connection with an 8-pin M12x1 connector.
- ▶ The unit is delivered with a connection cable (L=6 ft) that is fitted with a connector in one end. Three versions are available. One basic version with no mounting accessories and one including mounting accessories for the the C conveyors and one including mounting accessories for the VC conveyors.
- ▶ Nylon tubing for connection of compressed air must be ordered separately.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Material		PC, Neoprene
Temperature range	°F	32-122
Weight	lb	5.00
Voltage	V	24
Safety classification		IP54
Display		LED-indicators
Power consumption	W	3(×4)
Electric connection		8-pin M12×1.0



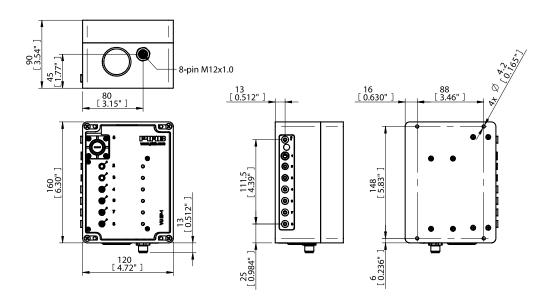


Art, No. 0112864

Art, No. 0113024



Description	Part No.
Valve unit VU EP-1	01.12.864
Valve unit VU EP-1 cpl. for C-conveyor	01.13.024
Valve unit VU EP-1 cpl. for VC-conveyor	01.13.025



ORDERING INFORMATION, ACCESSORIES

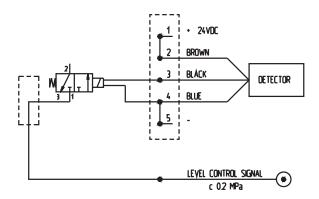
Description	Part No.
Nylon tubing kit, Standard CU-C21	01.06.978
Nylon tubing kit, fluidization CU-C21	01.06.979
Nylon tubing kit Standard CU-C33	01.03.929
Nylon tubing kit, fluidization CU-C33	01.03.930
Nylon tubing kit, Standard CU-C56	01.06.981
Nylon tubing kit, Fluid CU-C56	01.06.982



LEVEL DETECTOR



- ▶ Apply with CU-1/2.
- ➤ Stops the conveyor when level in recieving vessel is reached.



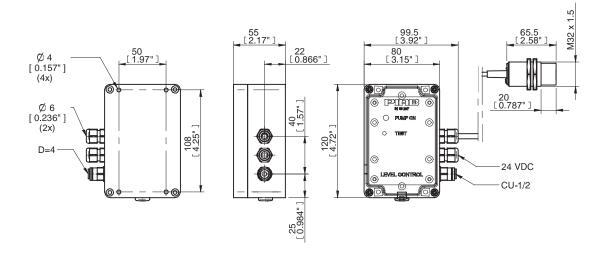
TECHNICAL DATA

Description	Unit	Value
Material		PC, POM
Temperature range	°F	32-122
Weight	lb	1.37
Voltage	V	24
Safety classification, box		IP54

TECHNICAL DATA, CAPACITIVE GAUGE

Description	Unit	Value
Temperature, operating	°F	-22–158
Cable, capacitive gauge	mm²	3x0.5
Safety classification, capacitive gauge		IP67
Current, max	mA	300
Switching power	W	7.2

Description	Part No.
Level detector	01.00.267





REMOTE-CONTROLLED START/STOP

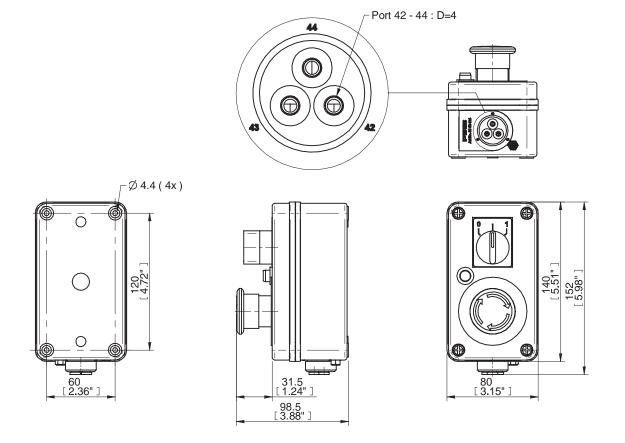


- ▶ Remote-controlled start and stop of the conveyor.
- ► Fully pneumatic.
- ➤ Visual signal (pneumatic eye) shows if the conveyor is running.
- ▶ Use together with CU-1A/B or CU-2A/B.

TECHNICAL DATA

Description	Unit	Value
Feed pressure range	psi	58–87
Temperature range	°F	32–122
Weight	lb	1.04
Material		PA

Description	Part No.
Remote control CU-1/2 Start/Stop with emergency stop	01.03.924





REGULATOR KIT



- ▶ Regulates the incoming pressure to the pump.
- ▶ The filter cleans the compressed air.

TECHNICAL DATA

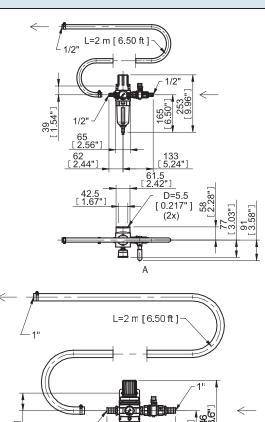
Description	Unit	Value
Feed pressure, max	psi	116
Material		AI, PA, Cu, SS, PTFE, PP, POM, NBR, PB
Temperature range	°F	14–176

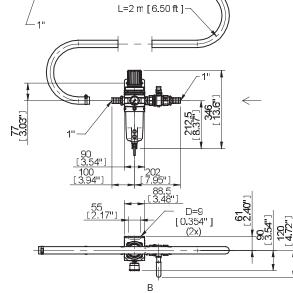
TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.04.490	01.04.491
Weight	lb	6.13	10.6



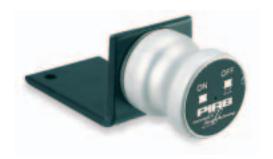
Des	cription	Part No.
Α	Regulator kit 1/2" 100-400	01.04.490
В	Regulator kit 1" 600-1600	01.04.491

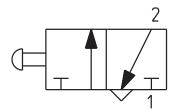






ACTUATING VALVE

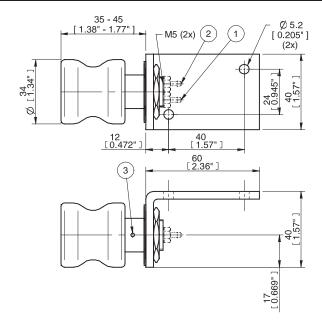




TECHNICAL DATA

Description	Unit	Value
Feed pressure, max	psi	101.5
Material		SS, PB, AI, NBR, CuZn, PA
Temperature range	°F	-40–230
Weight	OZ	4.23

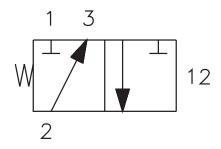
Description	Part No.
Actuating valve cpl	31.07.001





VALVE 3/2 G1/8" PS NC

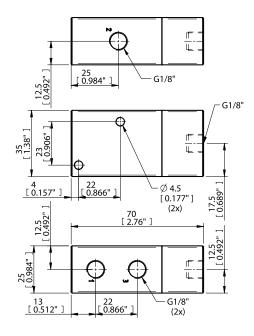




TECHNICAL DATA

Description	Unit	Value
Working pressure, max.	psi	145
Temperature range	°F	23–158
Weight	OZ	6.00
Flow, at 87 psi with delta-p=14.5 psi	scfm	29.7
Material		Al (anodized)

Description	Part No.
Valve 3/2 G1/8" PS NC	01.12.436





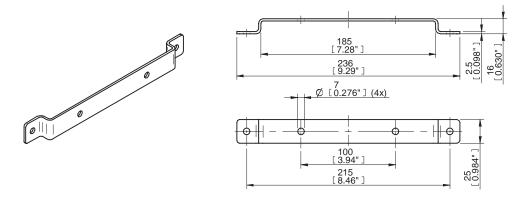
MOUNTING CLAMP TO CONTROL UNIT CU-1/2



TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Weight	OZ	4.16

Description	Part No.
Mounting clamp control unit CU-1/2	01.04.487





CONTAINER MODULE 21/16 COMPLETE



- ▶ Increases the batch volume of the conveyor.
- ► Elevates and further protects the filter from the conveyed product.

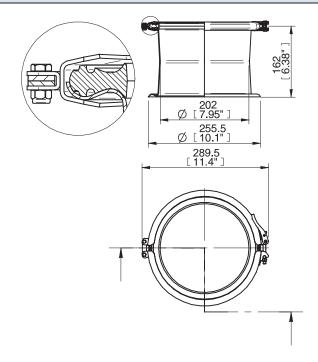
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	0.19

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.04.497/1	01.04.497/2
Material		NBR	Q
Weight	lb	4.32	4.34

Description	Part No.
Container module 21/16 cpl, NBR	01.04.497/1
Container module 21/16 cpl, Q	01.04.497/2





CONTAINER MODULE 21/9 COMPLETE



- ▶ Increases the batch volume of the conveyor.
- ► Elevates and further protects the filter from the conveyed product.

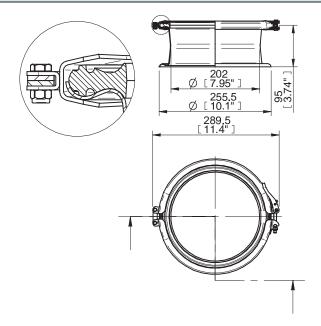
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	0.11

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.04.499/1	01.04.499/2
Material		NBR	Q
Weight	lb	3.35	3.37

Description	Part No.
Container module 21/9 cpl, NBR	01.04.499/1
Container module 21/9 cpl, Q	01.04.499/2





CONTAINER MODULE 33/26 COMPLETE



- ▶ Increases the batch volume of the conveyor.
- ► Elevates and further protects the filter from the conveyed product.

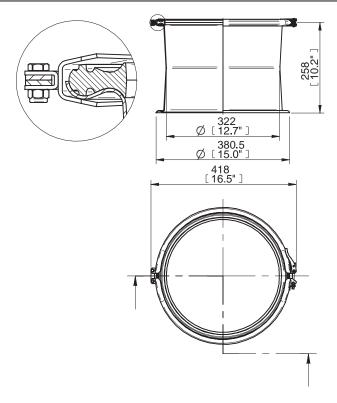
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	0.77

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.902/1	01.03.902/2
Material		NBR	Q
Weight	lb	8.80	8.80

Description	Part No.
Container module 33/26 cpl, NBR	01.03.902/1
Container module 33/26 cpl, Q	01.03.902/2





CONTAINER MODULE 33/12 COMPLETE



- ▶ Increases the batch volume of the conveyor.
- ► Elevates and further protects the filter from the conveyed product.

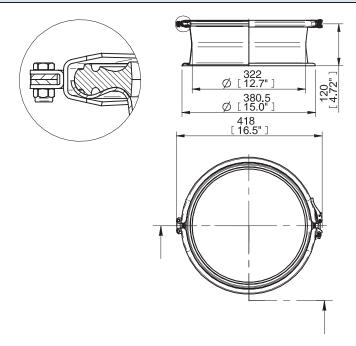
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	0.36

TECHNICAL DATA, SPECIFIC

Description	Unit	Volume	
		01.04.046/1	01.04.046/2
Material		NBR	Q
Weight	lb	5.67	5.67

Description	Part No.
Container module 33/12 cpl, NBR	01.04.046/1
Container module 33/12 cpl, Q	01.04.046/2





CONTAINER MODULE 56/43 COMPLETE



- ▶ Increases the batch volume of the conveyor.
- ► Elevates and further protects the filter from the conveyed product.

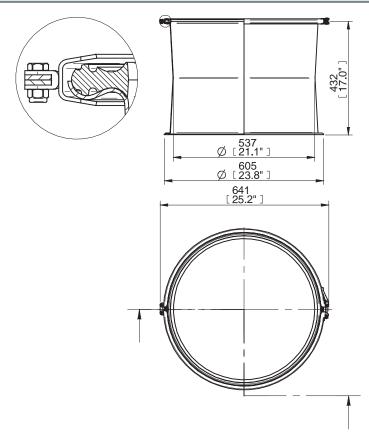
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	0.36

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.243/1	01.06.243/2
Material		NBR	Q
Weight	lb	24.3	24.3

Description	Part No.
Container module 56/43 cpl, NBR	01.06.243/1
Container module 56/43 cpl, Q	01.06.243/2





CONTAINER MODULE 56/16 COMPLETE



- ▶ Increases the batch volume of the conveyor.
- ► Elevates and further protects the filter from the conveyed product.

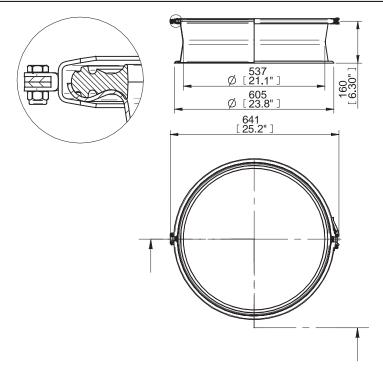
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	1.34

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.241/1	01.06.241/2
Material		NBR	Q
Weight	lb	12.1	12.1

Description	Part No.
Container module 56/16 cpl, NBR	01.06.241/1
Container module 56/16 cpl, Q	01.06.241/2





CONE MODULE 33/15 COMPLETE



▶ Used as a transition piece to increase the internal volume, etc.

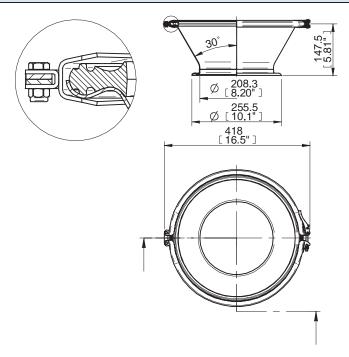
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	0.29

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.04.050/1	01.04.050/2
Material		NBR	Q
Weight	lb	5.71	5.73

Description	Part No.
Cone module 33/15 cpl, NBR	01.04.050/1
Cone module 33/15 cpl, Q	01.04.050/2





CONE MODULE 56/23 COMPLETE WITH MOUNTING BRACKETS



▶ Used as a transition piece to increase the internal volume, etc

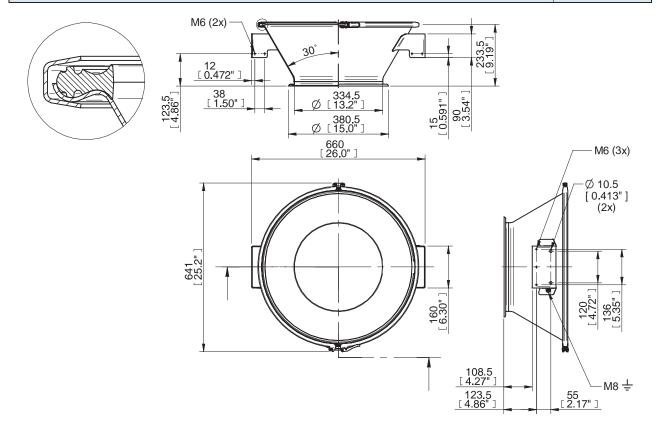
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	1.26

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.04.051/1	01.04.051/2
Material		NBR	Q
Weight	lb	16.8	16.8

Description	Part No.
Cone module 56/23 brackets cpl, NBR	01.06.238/1
Cone module 56/23 brackets cpl, Q	01.06.238/2





CONTAINER 21/9 COMPLETE



- ▶ Used as a receiving vessel.
- ▶ Used for pre-separation.

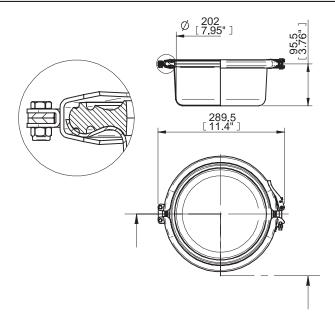
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	0.11

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.06.799/1	01.06.799/2	
Material		NBR	Q	
Weight	lb	3.64	3.64	

Description	Part No.
Container 21/9 cpl, NBR	01.06.799/1
Container 21/9 cpl ,Q	01.06.799/2





CONTAINER 33/16 COMPLETE



- ▶ Used as a receiving vessel.
- ▶ Used for pre-separation.

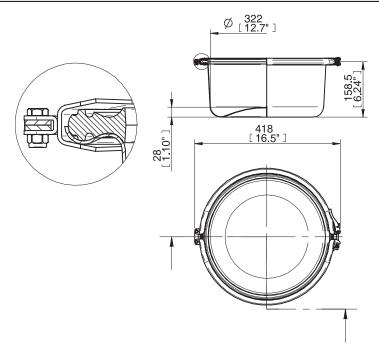
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	0.44

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.04.493/1	01.04.493/2	
Material		NBR	Q	
Weight	lb	7.54	7.56	

Description	Part No.
Container 33/16 cpl, NBR	01.04.493/1
Container 33/16 cpl, Q	01.04.493/2





CONTAINER 56/23 COMPLETE



- Used as a receiving vessel.
- ▶ Used for pre-separation.

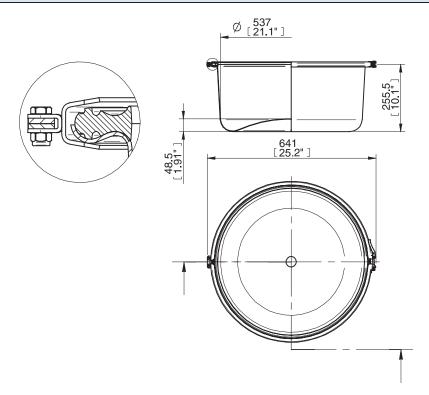
TECHNICAL DATA

Description	Unit	Value
Material		ASTM 316L
Finish	Ra	≤0.8
Volume	cf	1.96

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.06.969/1	01.06.969/2	
Material		NBR	Q	
Weight	lb	20.5	20.5	

Description	Part No.
Container 56/26 cpl, NBR	01.06.969/1
Container 56/26 cpl, Q	01.06.969/2





FEED NOZZLES 25, 32, 40, 50



- ▶ Polished ≤ Ra 0.8.
- ▶ To pick up the product in a smooth manner.
- ► Adjustable air intake at two places.

TECHNICAL DATA

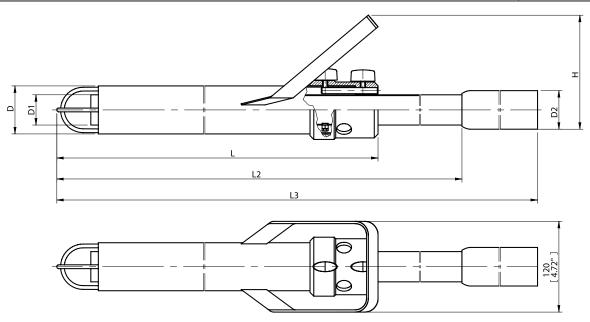
Description	Value
Material	ASTM 316L, POM

TECHNICAL DATA, SPECIFIC

Description	Unit	Value			
		01.17.440 34.04.001 31.04.055 31.04.054			
Weight	lb	3.11	5.78	6.39	6.59

ORDERING INFORMATION

Description	Part No.
Feed nozzle 25 without handle	01.17.440
Feed nozzle 32	34.04.001
Feed nozzle 40	31.04.055
Feed nozzle 50	31.04.054



DIMENSIONS

Description	D m	D1 mm	D2 mm	L in	L2 in	L3 in	H in
Feed nozzle 25 without handle	Ø 40.0	Ø 25x1.2	Ø 25x1.2	28.7	35.9–37.0	_	2.60
Feed nozzle 32	Ø 51.0	Ø 32x1.2	Ø 32x1.2	30.7	37.0–39.6	_	6.30
Feed nozzle 40	Ø 63.5	Ø 40x1.0	Ø 40x1.0	30.9	33.1–35.6	_	6.50
Feed nozzle 50	Ø 63.5	Ø 40x1.0	Ø 51x1.5	30.9	33.1–35.6	37.0-39.6	6.50



FEED STATIONS



- ▶ To store the product at the suction point.
- Polished ≤ Ra 0.8.
- Available with white or antistatic (black) fluidization cone.
- ► Fluidization regulator is included.

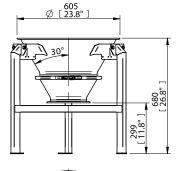
TECHNICAL DATA

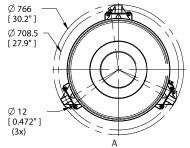
Description	Unit	Value
Material		ASTM 304, ASTM 316L
Material batch volume	cf	1.41

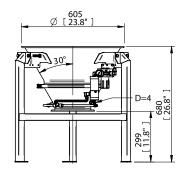
TECHNICAL DATA, SPECIFIC

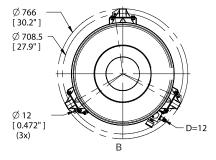
Description	Unit	Value			
		01.17.673/01.17.674	01.17.675/01.17.676		
Material		NBR, Q	NBR, Q		
Weight	lb	51.1	56.2		

	Description	Part No.
Α	Feed station 40 liters, NBR	01.17.673
Α	Feed station 40 liters, Q	01.17.674
В	Feed station 40 liters, fluidization, NBR	01.17.675
В	Feed station 40 liters, fluidization, Q	01.17.676











FEED ADAPTERS WITH CLAMP RING



- ▶ Polished ≤ Ra 0.8.
- ▶ To suit PIAB feed station or transition pieces.

TECHNICAL DATA

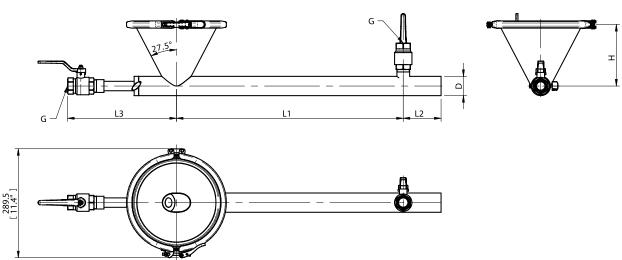
Description	Value
Material	ASTM 316L, CuNi

TECHNICAL DATA, SPECIFIC

Description	Part No.	Weight Ib
Feed adapter, D=25, NBR clamp ring	01.17.438	5.34
Feed adapter, D=25, Q clamp ring	01.17.439	5.36
Feed adapter, D=32, NBR clamp ring	01.17.663	5.71
Feed adapter, D=32, Q clamp ring	01.17.664	5.71
Feed adapter, D=40, NBR clamp ring	01.17.708	6.44
Feed adapter, D=40, Q clamp ring	01.17.709	6.46
Feed adapter, D=50, NBR clamp ring	01.17.667	9.15
Feed adapter, D=50, Q clamp ring	01.17.668	9.17
Feed adapter, D=75, NBR clamp ring	01.17.669	17.5
Feed adapter, D=75, Q clamp ring	01.17.670	17.6
Feed adapter, D=100, NBR clamp ring	01.17.671	28.4
Feed adapter, D=100, Q clamp ring	01.17.672	28.4



Description	Part No.
Feed adapter, D=25, NBR clamp ring	01.17.438
Feed adapter, D=25, Q clamp ring	01.17.439
Feed adapter, D=32, NBR clamp ring	01.17.663
Feed adapter, D=32, Q clamp ring	01.17.664
Feed adapter, D=40, NBR clamp ring	01.17.708
Feed adapter, D=40, Q clamp ring	01.17.709
Feed adapter, D=50, NBR clamp ring	01.17.667
Feed adapter, D=50, Q clamp ring	01.17.668
Feed adapter, D=75, NBR clamp ring	01.17.669
Feed adapter, D=75, Q clamp ring	01.17.670
Feed adapter, D=100, NBR clamp ring	01.17.671
Feed adapter, D=100, Q clamp ring	01.17.672



DIMENSIONS

Description	D mm	H in	L1 in	L2 in	L3 in	G
Feed adapter, D=25	Ø 25x1.2	7.24	15.2	2.56	5.39-7.48	1/4"
Feed adapter, D=32	Ø 32x1.2	7.13	16.7	3.94	6.10-8.19	1/2"
Feed adapter, D=40	Ø 40x1.0	6.81	19.7	3.94	7.40-10.0	3/4"
Feed adapter, D=50	Ø 51x1.2	6.42	23.6	3.94	8.19-11.3	1"
Feed adapter, D=75	Ø 76.1x1.6	5.47	30.5	5.91	9.92-14.6	1 1/4"
Feed adapter, D=100	Ø 101.6x2.0	4.49	41.3	5.91	12.2-18.1	2"



BULK BAG UNLOADER



- ► The bulk bag unloader is a fully contained unit for the unloading of bulk bags.
- ▶ With the bulk bag elevated above the station, the spout of the bag is attached (before it is untied) to an inflatable seal.
- ► Totally dust-free connection.
- ▶ Bulk bag frame available upon request.
- Bulk bag not available.

TECHNICAL DATA

Description	Value
Material	304 SS, 316L

TECHNICAL DATA, SPECIFIC

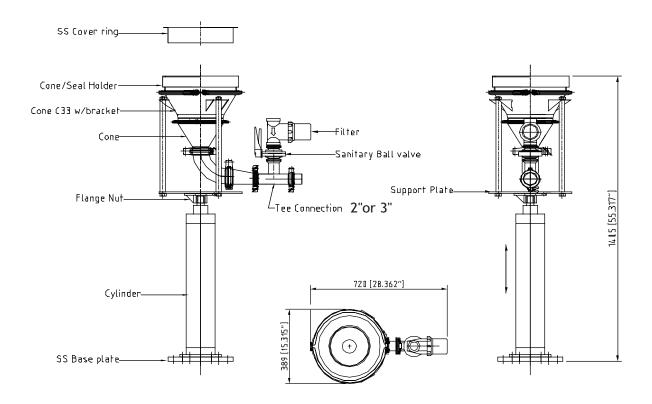
Description	Unit	Value			
		01.00.C129/2IN / 01.00.C129/F/2IN	01.00.C129/3IN / 01.00.C129/F/3IN		
Weight	lb	128.0	128.5		



Description	Part No.
Bulk bag unloader C33 2 inch connection	01.00.C129/2IN
Bulk bag unloader C33 2 inch connection fluidized	01.00.C129/F/2IN
Bulk bag unloader C33 3 inch connection	01.00.C129/3IN
Bulk bag unloader C33 3 inch connection fluidized	01.00.C129/F/3IN

REFERENCE TEXT

Note: For this system to be used, the spout of the bag must be at least 18" long BELOW the tie knot. The knot should be as high on the spout as possible. These specs are easily satisfied, upon request, by most all bulk bag manufacturers.





PORTABLE STAND C21/C33



- ► The portable stand provides for more application possibilities.
- ► Available with 4" sanitary casters.
- ➤ The stand allows a conveyor to be placed over drums 17"-22" in diameter with the drum's height of 14"-35".

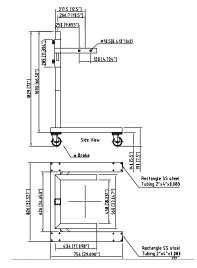
TECHNICAL DATA, SPECIFIC

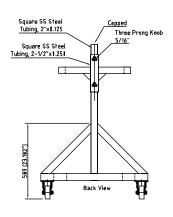
Description	Unit	Value		
		01.00.C076	01.00.C077	
Material		304 SS	304 SS	
Finish		2B mill	2B mill	
Weight	lb	65.0	65.0	



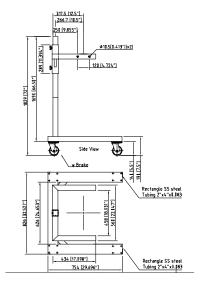
Description	Part No.
Portable stand C21	01.00.C076
Portable stand C33	01.00.C077

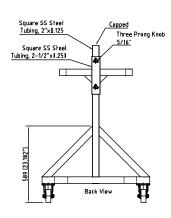
C21





C33







TEXTILE FILTER BAGS



- ▶ The filter bags are of food quality.
- ► Antistatic.
- ▶ Welded seams.
- ➤ Silicone free.

TECHNICAL DATA

Description	Unit	Value
Material		ePTFE, Polyester (95%), C (5%)
Temperature, max.	°F	176
Min particle size	μm	5.0

TECHNICAL DATA, SPECIFIC

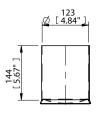
Description	Unit	Value			
		01.15.354	01.15.355	01.15.356	01.15.357
Weight	OZ	1.13	1.59	2.50	4.09
Filter area/bag	ft²	0.65	0.97	1.51	2.48

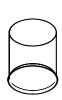
Α

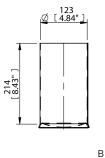
С

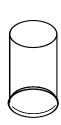


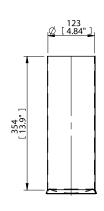
	Description	Part No.
Α	Textile filter D=125 L=145	01.15.354
В	Textile filter D=125 L=220	01.15.355
С	Textile filter D=125 L=360	01.15.356
D	Textile filter D=125 L=610	01.15.357

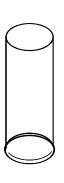


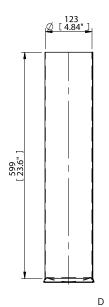
















ROD FILTERS GORE SINBRAN



- ► Suitable for sticky powders.
- ► FDA compliance.
- ► The black Gore Sinbran filter is antistatic and in complience with ATEX.
- ► Silicone free.

TECHNICAL DATA

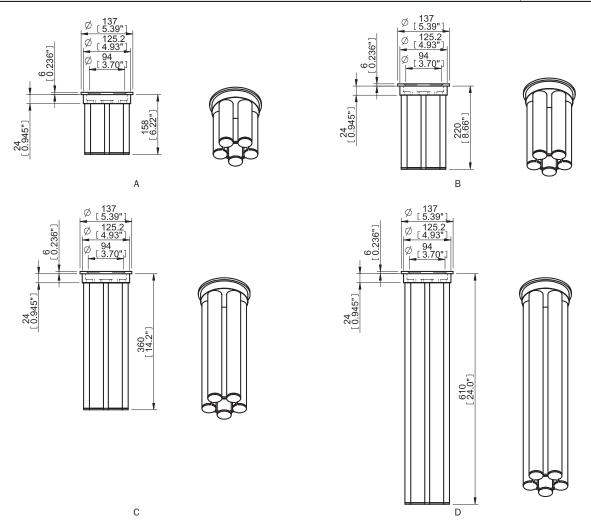
Description	Unit	Value
Material		PTFE, PE
Temperature, max.	°F	140
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value			
		01.11.871	01.11.872	01.11.873	01.11.874
Weight	lb	0.63	0.74	0.99	1.44
Filter area/bag	ft²	0.86	1.18	2.05	3.66



	Description	Part No.
Α	Rod filter Gore Sinbran L=158, black	01.11.871/1
Α	Rod filter Gore Sinbran L= 158, white	01.11.871/2
В	Rod filter Gore Sinbran L=220, black	01.11.872/1
В	Rod filter Gore Sinbran L=220, white	01.11.872/2
С	Rod filter Gore Sinbran L=360, black	01.11.873/1
С	Rod filter Gore Sinbran L=360, white	01.11.873/2
D	Rod filter Gore Sinbran L=610, black	01.11.874/1
D	Rod filter Gore Sinbran L=610, white	01.11.874/2





ROD FILTER GORE SINBRAN Ø50.8, L=182



- ► Suitable for sticky powders.
- ► FDA compliance.
- ► The black Gore Sinbran filter is antistatic and in complience with ATEX.
- ► Silicone free.

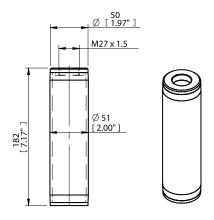
TECHNICAL DATA

Description	Unit	Value
Material		PTFE, PE
Temperature max	°F	140
Weight	OZ	2.26
Filter area	ft²	0.32
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	01.09.835/1	01.09.835/2
Material	С	-

Description	Part No.
Rod filter Gore Sinbran Ø50,8 L=182, black antistatic	01.09.835/1
Rod filter Gore Sinbran Ø50,8 L=182, white	01.09.835/2





PLEATED FILTERS



- ► FDA compliance.
- ► The filter is antistatic and in complience with ATEX.
- ➤ Suitable for extreme fine and free flowing powder, i.e. toner.

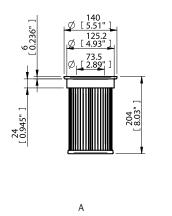
TECHNICAL DATA

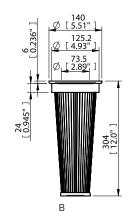
Description	Unit	Value
Material		PTFE, Polyester, PUR, EN1.4571
Temperature	°F	176
Min particle size	μm	0.5

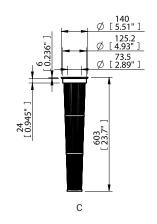
TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.12.310	01.12.311	01.12.312
Weight	lb	1.83	1.90	2.43
Filter area	ft²	3.23	5.38	10.8

	Description	Part No.
Α	Pleated filter L=198	01.12.310
В	Pleated filter L=298	01.12.311
С	Pleated filter L=597	01.12.312









PLEATED FILTER Ø61/58, L=182

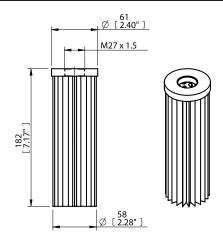


- ► FDA compliance.
- ► The filter is antistatic and in compliance with ATEX.
- ➤ Suitable for extreme fine and free flowing powder, i.e. toner.

TECHNICAL DATA

Description	Unit	Value
Material		PTFE, Polyester, PUR, EN1.4404
Temperature max	°F	176
Weight	OZ	6.42
Filter area	ft²	0.86
Min particle size	μm	0.5

Description	Part No.
Pleated filter Ø61/58, L=182	01.14.056





HERDING FILTERS



- ► The Herding filters are in accordance with FDA, GMP and 3-A requirements.
- ► Herding filters are recommended for powders with a particle size of >0.5 micron (depending on powder properties).
- ► The sintered polyethylene body is coated with a PTFE membrane.
- ► The filter can be sterilized for 60 minutes at 230°F.
- ► Herding filter seals are not included and must be ordered separately.

TECHNICAL DATA

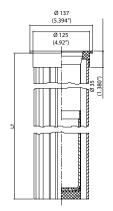
Description	Unit	Value
Material		PE, PTFE
Temperature, max.	°F	158
Min particle size	μm	0.5

TECHNICAL DATA, SPECIFIC

Description	Unit	Value			
		PRIHSL145	PRIHSL220	PRIHSL366	PRIHSL610
Weight	oz/ft²	9.00	9.00	9.00	9.00
Filter area	ft ²	0.75	1.29	2.05	3.55
Length (L1)	in	5.70	8.66	14.2	24.0

ORDERING INFORMATION

Description	Part No.
Herding filter L=145	PRIHSL145
Herding filter L=220	PRIHSL220
Herding filter L=366	PRIHSL366
Herding filter L=610	PRIHSL610





ORDERING INFORMATION, ACCESSORIES

Description	Part No.
Filter seal 125, NBR	01.03.953/1
Filter seal 125, Q	01.03.953/2
Filter seal 125, FPM	01.03.953/3



CLAMP RINGS, COMPLETE



- ► Hygienic design.
- ▶ Spare part.

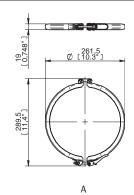
TECHNICAL DATA

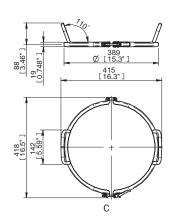
Description	Value
Material	ASTM 316L

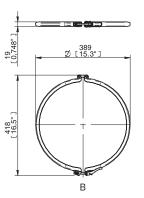
TECHNICAL DATA, SPECIFIC

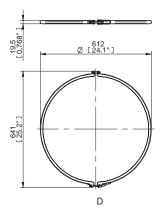
Description	Unit	Value				
		01.03.972 01.03.977 01.04.390 01.06.127				
Weight	lb	0.99	1.38	1.82	2.11	

	Description	Part .No
Α	Clamp ring 21 cpl	01.03.972
В	Clamp ring 33 cpl	01.03.977
С	Clamp ring 33 cpl handles	01.04.390
D	Clamp ring 56 cpl	01.06.127











MOUNTING BRACKET



- Polished ≤ Ra 0.8.
- ➤ To fasten control units, fluidizing regulator or to mount the conveyor on a wall.

TECHNICAL DATA

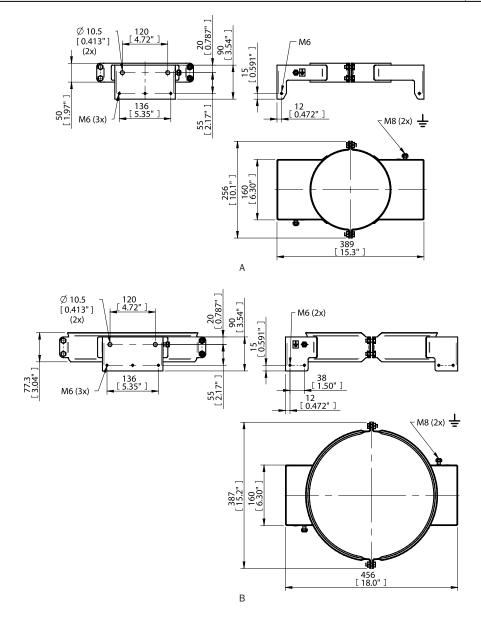
Description	Value
Material	ASTM 316L

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.08.555	01.04.091	
Weight	lb	3.70	5.18	



Г		Description	Part No.
1	Д	Mounting bracket 21 cpl	01.08.555
E	В	Mounting bracket 33 cpl	01.04.091





MODULE SEALS

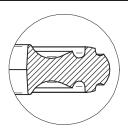


- ► Fulfils the requirements of FDA.
- ▶ Spare part.

TECHNICAL DATA, SPECIFIC

Description	Unit	Value					
		01.03.946/1	01.03.946/2	01.03.948/1	01.03.948/2	01.06.142/1	01.06.142/2
Material		NBR	Q	NBR	Q	NBR	Q
Temperature range	°F	-4–257	-22–347	-4–257	-22–347	-4–257	-22–347
Weight	OZ	5.29	5.54	8.01	8.47	13.1	13.6
Color		black	white	black	white	black	white

Description	Part No.
Module seal 21 NBR	01.03.946/1
Module seal 21 Q	01.03.946/2
Module seal 33 NBR	01.03.948/1
Module seal 33 Q	01.03.948/2
Module seal 56 NBR	01.06.142/1
Module seal 56 Q	01.06.142/2





MODULE FILTER PLATE SEALS



- ► Fulfils the requirements of FDA.
- ► Spare part.

TECHNICAL DATA, SPECIFIC

Description	Unit	Value					
		01.03.947/1	01.03.947/2	01.03.949/1	01.03.949/2	01.06.143/1	01.06.143/2
Material		NBR	Q	NBR	Q	NBR	Q
Temperature range	°F	-4–257	-22–347	-4–257	-22–347	-4–257	-22–347
Weight	OZ	4.44	4.66	6.38	6.67	10.1	10.5
Color		black	white	black	white	black	white

Description	Part No.
Module filter plate seal 21 NBR	01.03.947/1
Module filter plate seal 21 Q	01.03.947/2
Module filter plate seal 33 NBR	01.03.949/1
Module filter plate seal 33 Q	01.03.949/2
Module filter plate seal 56 NBR	01.06.143/1
Module filter plate seal 56 Q	01.06.143/2





MODULE FLUID SEALS

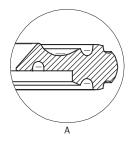


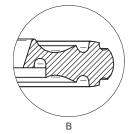
- ► Fulfils the requirements of FDA.
- ▶ Spare part.

TECHNICAL DATA, SPECIFIC

Description	Unit	Value				
		01.06.670/1	01.06.670/2	01.03.950/1	01.03.950/2	
Material		NBR	Q	NBR	Q	
Temperature range	°F	-4-257	-22–347	-4-257	-22–347	
Weight	OZ	4.59	4.94	7.62	7.90	
Color		black	white	black	white	

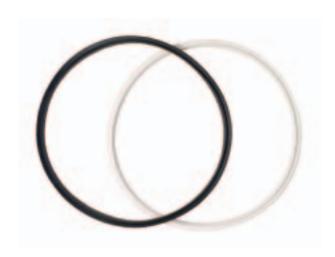
	Description	Part No.
Α	Module fluid seal 21 NBR	01.06.670/1
Α	Module fluid seal 21 Q	01.06.670/2
В	Module fluid seal 33 NBR	01.03.950/1
В	Module fluid seal 33 Q	01.03.950/2







FLUID SEALS

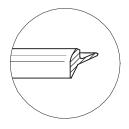


- ► Fulfils the requirements of FDA.
- ► Spare part.

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.951/1	01.03.951/2
Material		NBR	Q
Temperature range	°F	-4–257	-22–347
Weight	OZ	4.23	4.59
Color		black	white

Description	Part No.
Fluid seal 33 NBR	01.03.951/1
Fluid seal 33 0	01.03.951/2





FILTER SEALS

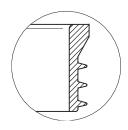


- ► Fulfils the requirements of FDA.
- ► Spare part.

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.953/1	01.03.953/2
Material		NBR	Q
Temperature range	°F	-4–257	-22–347
Weight	OZ	1.09	1.41
Color		black	white

Description	Part No.	
Filter seal 125, NBR	01.03.953/1	
Filter seal 125, Q	01.03.953/2	





BOTTOM VALVE SEALS



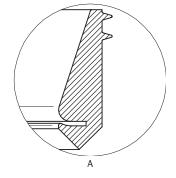
- ► Fulfils the requirements of FDA.
- ► Spare part.

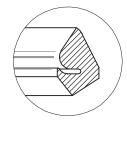
TECHNICAL DATA, SPECIFIC

Description	Unit	Value					
		01.06.617/1	01.06.617/2	01.06.603/1	01.06.603/2	01.03.952/1	01.03.952/2
Material		NBR	Q	NBR	Q	NBR	Q
Temperature range	°F	-4–257	-22–347	-4–257	-22–347	-4–257	-22–347
Weight	OZ	5.96	6.21	2.12	2.22	6.88	7.13
Colour		black	white	black	white	black	white

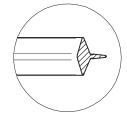
ORDERING INFORMATION

	Description	Part No.
Α	Bottom valve seal 180 NBR	01.03.952/1
Α	Bottom valve seal 180 Q	01.03.952/2
В	Bottom valve seal 125 NBR	01.06.603/1
В	Bottom valve seal 125 Q	01.06.603/2
С	Valve cone seal 21 NBR	01.06.617/1
С	Valve cone seal 21 Q	01.06.617/2





В



С



FLUIDIZING CONE 21 MADE OF POLYETHYLENE

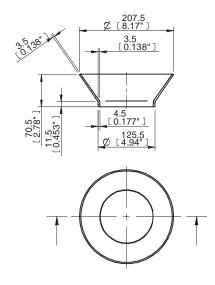


- ► Fulfils the requirements of FDA (white cone).
- ► Antistatic (black cone).

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.06.669/1	01.06.669/2
Material		PE, Antistatic	PE
Weight	OZ	2.68	2.68

Description	Part No.
Fluidising cone 21 PE antistatic	01.06.669/1
Fluidising cone 21 PE	01.06.669/2





FLUIDIZING CONE 21 MADE OF 316 SS

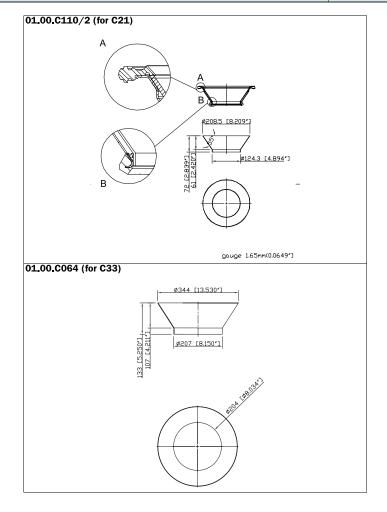


- ► The fluidizing cone is made in accordance with FDA requirements.
- ► Abrasion and puncture resistant.
- ▶ The SS cone will not chip, flake or shed fibers.

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.00.C110/2	01.00.C064
Material		316 SS	316 SS
Weight	lb/ft²	1.00	2.00

Description	Part No.
Fluidizing cone C21 316SS	01.00.C110/2
Fluidizing cone C33 316SS	01.00.0064





FLUIDIZING CONE 33 MADE OF POLYETHYLENE

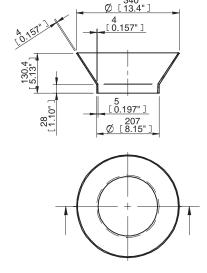


- ► Fulfils the requirements of FDA (white cone).
- ► Antistatic (black cone).

TECHNICAL DATA, SPECIFIC

Description	Unit	Value	
		01.03.978/1	01.03.978/2
Material		PE, Antistatic	PE
Weight	OZ	7.76	8.82

Description	Part No.
Fluidising cone 33 PE antistatic	01.03.978/1
Fluidising cone 33 PE	01.03.978/2





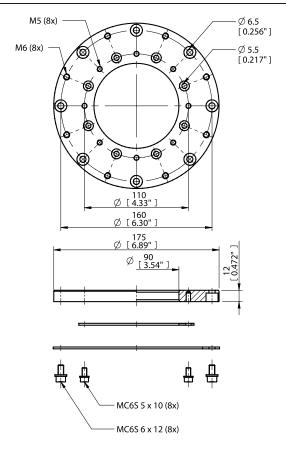
ADAPTER MAXI L100-1600



TECHNICAL DATA

Description	Unit	Value		
Material		SS, CI, SIL, EPDM, Viton, NR, PA		
Weight	lb	1.37		

Description	Part No.
Adapter MAXI L100-L1600 cpl	31.02.073





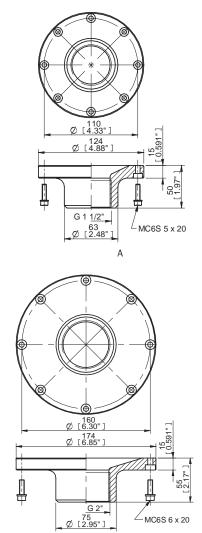
CONNECTION FLANGE



TECHNICAL DATA, SPECIFIC

Description	Value	31.16.010	31.16.015
Material		AI, PA	AI, PA, SS
Weight	lb	1.10	2.01

	Description	Part No.
Α	Connection flange 100–600	31.16.010
В	Connection flange 800–1600	31.16.015





EXHAUST ADAPTERS



- ▶ Used with free-flow silencer 75.
- ► Carry-off air from pump.

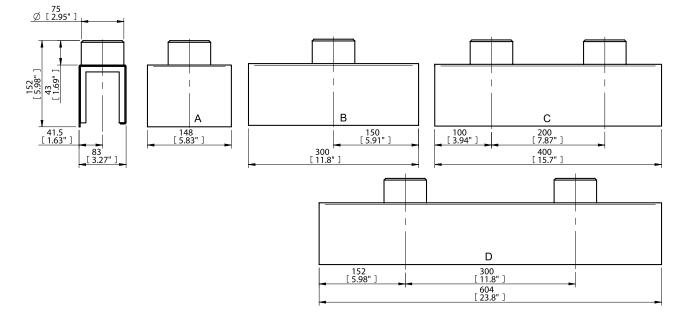
TECHNICAL DATA

Description	Value
Material	AI, NBR, PE

TECHNICAL DATA, SPECIFIC

Description	Unit	Value			
		31.16.017	31.16.018	31.16.054	31.16.019
Weight	lb	0.90	1.98	2.27	3.20
Connection, exhaust		Ø2.95×0.06	Ø2.95×0.06	2ר2.95×0.06	2ר2.95×0.06

	Description	Part No.
Α	Central exhaust MLL100-400	31.16.017
В	Central exhaust MLL600-800	31.16.018
С	Central exhaust MLL1200	31.16.054
D	Central exhaust MLL1600	31.16.019





FREE-FLOW SILENCER 75

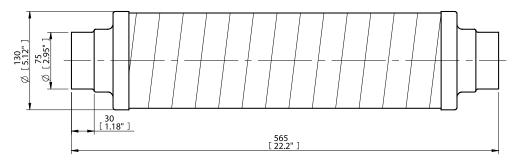


- Used with exhaust adapters.
- ▶ To decrease the noise level.

TECHNICAL DATA

Description	Unit	Value
Noise level	dBA	-10
Material		Al
Weight	lb	1.10







Conveyors IC

Many industrial processes involve moving of bulk material.

A few examples of such materials are metal oxides, ceramics and plastic powders. These come into the production phase in the shape of powders, granules or pellets.

The IC Conveyor is suitable for industries where the sanitary demands are not primary, but lower energy consumption, lower maintenance and a better working environment are important.

The IC Conveyor is easy to install and maintain.

CONVEYORS IC

C3301	242
C3302	244
C3304	246



IC3301



- ► COAX® patented technolog
- ► Compact design
- ► Easy to install
- ► Antistatic filter and sealings

TECHNICAL DATA

Description	Unit	Value	
Feed pressure	psi	58-87	
Air consumption	scfm	10.6-14.8	
Vacuum	-inHg	18-22	
Noise level	dBA	72–76	
Material		Fe, Zn, NBR, PA, Al	
Temperature range	°F	32-122	
Weight	lb	24.6	
Filter area	ft²	0.65	
Batch volume	cf	0.19	
Pipe dimension	in	2.00	

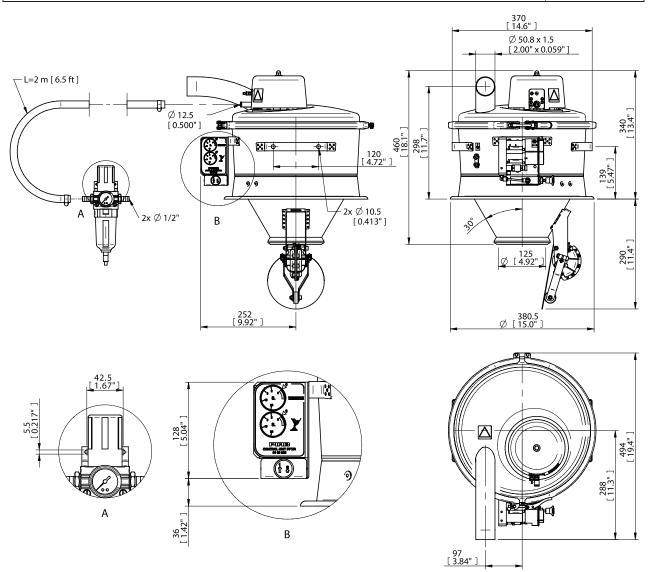
CAPACITY

Capacity ton/h at different conveying distances*				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
1.0	0.7	0.5	0.3	

^{*}Based on powdered, granulated materials with a bulk density of 30-50 pounds/cubic foot.



Description	Part No.
Conveyor IC3301	01.11.537



ORDERING INFORMATION, ACCESSORIES

Description	Part No.
Container module cpl, short	01.11.563
Container module cpl, tall	01.11.562

Volume: Short container 01.11.563 (0.36 cf), Tall container 01.11.562 (0.77 cf)



IC3302



- ► COAX® patented technolog
- ► Compact design
- ► Easy to install
- ► Antistatic filter and sealings

TECHNICAL DATA

Description	Unit	Value	
Feed pressure	psi	58-87	
Air consumption	scfm	21.2-29.7	
Vacuum	-inHg	18-22	
Noise level	dBA	72–76	
Material		Fe, Zn, NBR, PA, Al	
Temperature range	°F	32-122	
Weight	lb	30.8	
Filter area	ft²	0.97	
Batch volume	cf	0.32	
Pipe dimension	in	2.00	

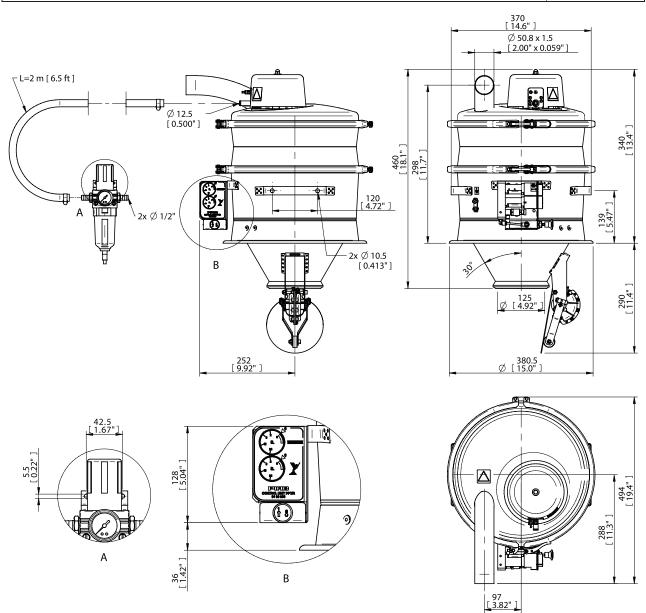
CAPACITY

Capacity ton/h at different conveying distances*				
16 ft (5 m) 33 ft (10 m) 66 ft (20 m) 98 ft (30 m)				
1.5	1.2	0.7	0.5	

^{*}Based on powdered, granulated materials with a bulk density of 30-50 pounds/cubic foot.



Description	Part No.
Conveyor IC3302	01.11.538



ORDERING INFORMATION, ACCESSORIES

Description	Part No.
Container module cpl, short	01.11.563
Container module cpl, tall	01.11.562

Volume: Short container 01.11.563 (0.36 cf), Tall container 01.11.562 (0.77 cf)



IC3304



- ► COAX® patented technolog
- ► Compact design
- ► Easy to install
- ► Antistatic filter and sealings

TECHNICAL DATA

Description	Unit	Value	
Feed pressure	psi	58-87	
Air consumption	scfm	31.8-44.5	
Vacuum	-inHg	18-22	
Noise level	dBA	72–76	
Material		Fe, Zn, NBR, PA, Al	
Temperature range	°F	32-122	
Weight	lb	34.3	
Filter area	ft²	1.51	
Batch volume	cf	0.32	
Pipe dimension	in	2.00	

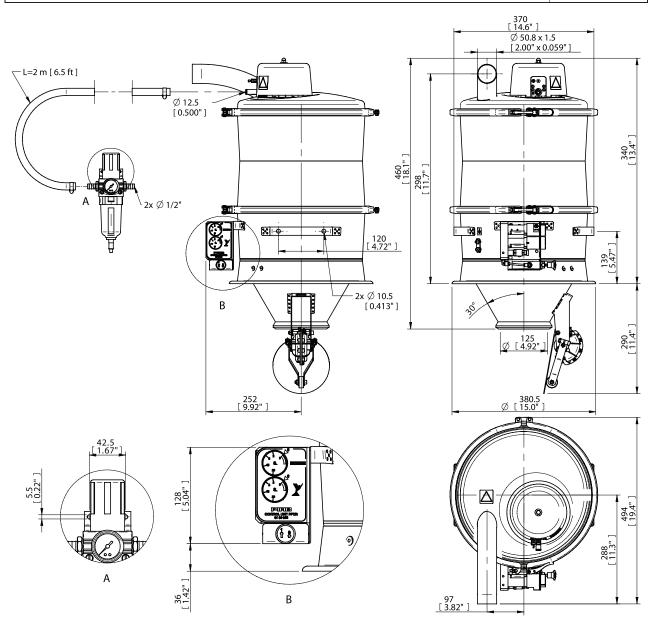
CAPACITY

Capacity ton/h at different conveying distances*			
16 ft (5 m)	33 ft (10 m)	66 ft (20 m)	98 ft (30 m)
2.0	1.7	1.0	0.7

^{*}Based on powdered, granulated materials with a bulk density of 30-50 pounds/cubic foot.



Description	Part No.
Conveyor IC3304	01.11.539



ORDERING INFORMATION, ACCESSORIES

Description	Part No.
Container module cpl, short	01.11.563
Container module cpl, tall	01.11.562

Volume: Short container 01.11.563 (0.36 cf), Tall container 01.11.562 (0.77 cf)



SUCTION PIPE



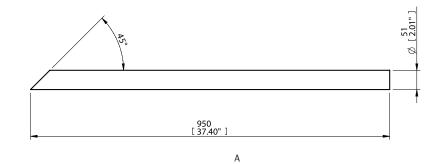
- ► The purpose of the suction pipe is to pick up product in a smooth manner.
- ▶ The suction pipe with ball valve is for powders. The amount of carrying air can be adjusted. The suction pipe is also equipped with an arched steel wire to protect bags from being drawn into the pipe.

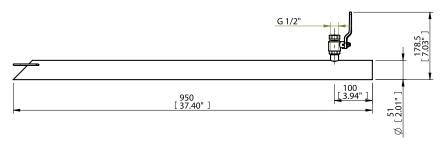
TECHNICAL DATA, SPECIFIC

Description	Unit	Value			
		01.13.917	01.13.920	01.13.921	01.13.922
Material		SS	SS	SS, CuZn	SS, CuZn
Weight	lb	1.90	3.02	2.27	3.53

ORDERING INFORMATION

Description		Art. No.
Α	Suction pipe 32	0113917
Α	Suction pipe 50	0113920
В	Suction pipe 32 with ball valve	0113921
В	Suction pipe 50 with ball valve	0113922





В

Description		L	A	G	Weight
		in	Ø in	in	lb
Α	Suction pipe 32	37.4	1.26 × 0.05	-	0.66
Α	Suction pipe 50	37.4	2.01 × 0.05	-	1.10
В	Suction pipe 32 with ball valve	37.4	1.26 × 0.05	3/8"	1.10
В	Suction pipe 50 with ball valve	37.4	2.01 × 0.05	1/2"	1.54



CONTAINER MODULES



- ▶ Increases the batch volume of the conveyor
- ▶ Used as a transition piece

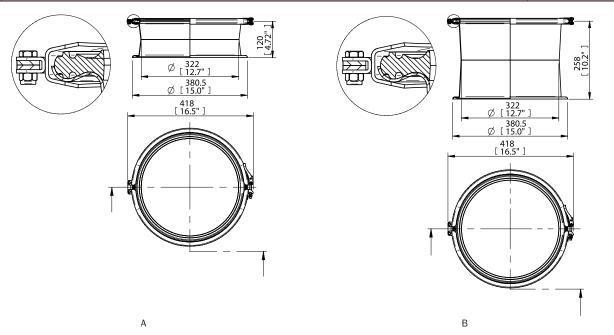
TECHNICAL DATA

Description	Value
Material	Fe, NBR

TECHNICAL DATA, SPECIFIC

Description	Unit	Value		
		01.11.563	01.11.562	
Weight	lb	5.40	8.47	

	Description	Part No.
Α	Container module cpl, short	01.11.563
В	Container module cpl, tall	01.11.562





Accessories

YOUR BEST SOLUTION - WITHOUT QUESTION

Our line of monitoring and control units for vacuum systems is unmatched when it comes to reliability. We focus on the overall solution, down to the last detail. We are fully aware that top quality components are as essential as designing pumps and suction cups that are in a class apart. You will find everything you need to monitor and control vacuum systems here.

Reliability, energy consumption and accurate control/monitoring are the key words.

ACCESSORIES

Injection valves	252
Injection units	253
Vacuum filters	254
Pipe bends	256
PVC Hoses	
Nylon tubings	259
Rubber hoses	260
Hose Clamps	261
Pipe fittings, straight	
Pipe fittings, Y	263
Pinch valves	
Wall bracket	272



INJECTION VALVES



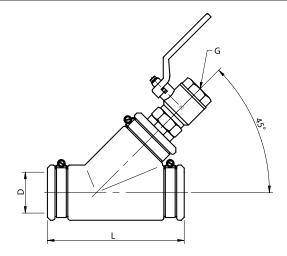
- ► Fulfils the requirements of FDA.
- ► Antistatic.
- ► Used to provide the product with extra carrying air

TECHNICAL DATA

Description	Unit	Value	
Material		SS 2343, Nickel-plated brass, NBR	
Temperature	F°	-4–257	

ORDERING INFORMATION

Description	Part No.
Injection valve 22 cpl	34.04.039
Injection valve 32 cpl	34.04.038
Injection valve 40 cpl	34.04.037
Injection valve 50 cpl	34.04.036
Injection valve 75 cpl	34.04.035
Injection valve 100 cpl	34.04.034



Description	D mm	L in	G
Injection valve 22 cpl	22	4.65	3/8"
Injection valve 32 cpl	32	5.24	1/2"
Injection valve 40 cpl	40	6.06	3/4"
Injection valve 50 cpl	51	7.13	1"
Injection valve 75 cpl	76.1	9.29	1 1/4"
Injection valve 100 cpl	101.6	11.5	2"



INJECTION UNITS



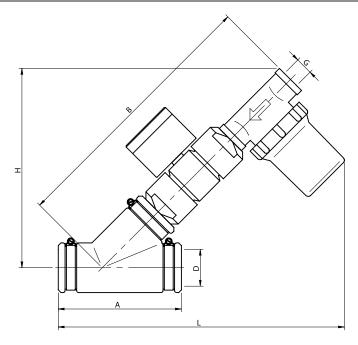
- ► Fulfils the requirements of FDA.
- ► Antistatic.
- ► Used to automatically provide the product with extra carrying air.

TECHNICAL DATA

Description	Unit	Value
Material		SS 2343, Nickel-plated brass

ORDERING INFORMATION

Description	Part No.
Injection unit 32	34.04.023
Injection unit 40	34.04.022
Injection unit 50	34.04.021
Injection unit 75	34.04.020
Injection unit 100	34.04.019



Description	D mm	L in	H in	B in	A in	G
Injection unit 32	32	12.3	8.23	10.9	5.24	3/4"
Injection unit 40	40	15.7	11.0	14.6	6.06	1"
Injection unit 50	51	16.6	11.5	15.4	7.13	1"
Injection unit 75	76.1	20.9	14.4	19.3	9.29	1 1/2"
Injection unit 100	101.6	22.6	15.6	24.8	11.5	1 1/2"



VACUUM FILTERS-PLASTIC



- ► To filter dust and other small particles from the vacuum flow.
- ► Reduces the risk of operation breakdown or stoppage in the pump.
- ► Replaceable filter element.
- ► Available with special filter element with increased filter area.

TECHNICAL DATA

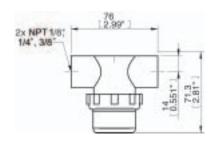
Description	Unit	Value
Pressure range	psi	-14.5-0
Material		PA, PC, PE
Temperature range	°F	-4-176
Removal efficiency	μm	10

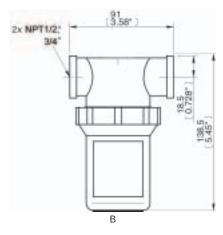
TECHNICAL DATA, SPECIFIC

Description	Unit	PPSF.125-X10	PPSF.25-X10	PPSF.375-X10	PPSF.5-X35	PPSF.75-X35	PPSF1.0-X50	PPSF1.5-X75
Weight	OZ	1.70	1.98	2.47	6.61	6.42	15.0	18.8
Flow nominal	cf/s	0.05	0.07	0.09	0.53	0.53	1.48	3.00
Volume Internal	in ³	2.10	2.40	2.70	11.9	12.5	30.2	41.2
Filter area	in ²	4.90	4.90	4.90	16.0	16.0	29.5	35.0

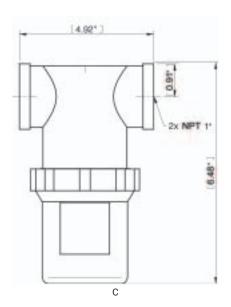


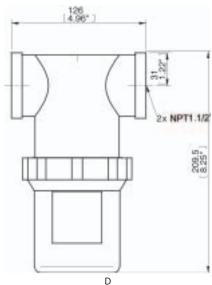
	Description	Part No.
Α	Vacuum filter 1/8" NPT	PPSF.125-X10
Α	Vacuum filter 1/4" NPT	PPSF.25-X10
Α	Vacuum filter 3/8" NPT	PPSF.375-X10
В	Vacuum filter 1/2" NPT	PPSF.5-X35
В	Vacuum filter, 3/4" NPT	PPSF.75-X35
С	Vacuum filter 1" NPT	PPSF1.0-X50
D	Vacuum filter 1 1/2" NPT	PPSF1.5-X75





Α





TECHNICAL DATA, ACCESSORIES

Description	Unit	Value						
		PPX10RE	PPX35RE	PPX50RE	PPX75RE			
Weight	OZ	0.25	0.92	1.76	2.61			
Filter area	in ²	4.65	15.5	29.5	35.7			
Removal efficiency	μm	10	10	10	10			

ORDERING INFORMATION, ACCESSORIES

Description	Part No.
Filter element X10	PPX10RE3
Filter element X35	PPX35RE3
Filter element X50	PPX50RE3
Filter element X75	PPX75RE3

All filter elements are sold as a 3-Pack



PIPE BENDS



► Food grade.

Outside: ground finish

Inside: Bright annealed and pickled.

TECHNICAL DATA

Description	Value
Material	SS 2333

TECHNICAL DATA, SPECIFIC, PIPE BEND 90°

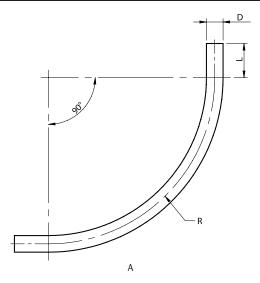
Description	Unit	Value					
		34.04.611	34.04.612	34.04.667	34.04.660	34.04.668	34.04.669
Weight	lb	0.77	1.27	1.66	3.17	11.6	21.5

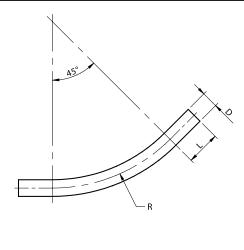
TECHNICAL DATA, SPECIFIC, PIPE BEND 45°

Description	Unit	Value						
		34.04.670	34.04.671	34.04.672	34.04.673	34.04.674	34.04.675	
Weight	lb	0.29	0.73	1.04	1.92	5.78	12.3	



	Description	Part No.
Α	Pipe bend Ø22 - 90°	34.04.611
Α	Pipe bend Ø32 - 90°	34.04.612
Α	Pipe bend Ø40 - 90°	34.04.667
Α	Pipe bend Ø50 - 90°	34.04.660
Α	Pipe bend Ø75 - 90°	34.04.668
Α	Pipe bend Ø100 - 90°	34.04.669
В	Pipe bend Ø22 - 45°	34.04.670
В	Pipe bend Ø32 - 45°	34.04.671
В	Pipe bend Ø40 - 45°	34.04.672
В	Pipe bend Ø50 - 45°	34.04.673
В	Pipe bend Ø75 - 45°	34.04.674
В	Pipe bend Ø100 - 45°	34.04.675





В

Description	D mm	R in	L in
Pipe bend Ø22 - 90°	22.0×1.0	8.66	1.77
Pipe bend Ø32 - 90°	32.0×1.2	12.6	2.56
Pipe bend Ø40 - 90°	40.0×1.0	15.7	3.15
Pipe bend Ø50 - 90°	51.0×1.2	19.7	3.94
Pipe bend Ø75 - 90°	76.1×1.6	29.5	5.91
Pipe bend Ø100 - 90°	101.6×2.0	39.4	7.87
Pipe bend Ø22 - 45°	22.0×1.0	8.66	1.77
Pipe bend Ø32 - 45°	32.0×1.2	12.6	2.56
Pipe bend Ø40 - 45°	40.0×1.0	15.7	3.15
Pipe bend Ø50 - 45°	51.0×1.2	19.7	3.94
Pipe bend Ø75 - 45°	76.1×1.6	29.5	5.91
Pipe bend Ø100 - 45°	101.6×2.0	39.4	7.87



PVC HOSES



► The hoses are of food quality.

TECHNICAL DATA

Description	Unit	Value
Feed pressure	-inHg	30.0
Material		PVC
Temperature range	F°	25–149

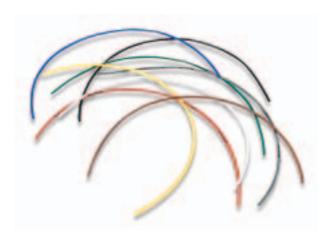
TECHNICAL DATA, SPECIFIC

Description	Part No.	Weight oz/ft	Dimension ID mm
Hose clear PVC 22	34.04.112	4.73	22
Hose clear PVC 32	34.04.108	8.06	32
Hose clear PVC 40	34.04.130	10.4	40
Hose clear PVC 50	34.04.131	15.2	51
Hose clear PVC 75	34.04.132	24.7	76
Hose clear PVC 100	34.04.133	46.8	102

Description	Part No.
Hose clear PVC 22	34.04.112
Hose clear PVC 32	34.04.108
Hose clear PVC 40	34.04.130
Hose clear PVC 50	34.04.131
Hose clear PVC 75	34.04.132
Hose clear PVC 100	34.04.133



NYLON TUBINGS



TECHNICAL DATA

Description	Unit	Value
Material		PA
Temperature range	F°	-40–212
Feed pressure	psi	261

TECHNICAL DATA, SPECIFIC

Description	Part No.	Weight oz/ft	Dimension OD/ID mm
Nylon tubing black	01.04.807	0.13	4/2
Nylon tubing transparent	01.04.806	0.14	4/2
Nylon tubing blue	01.04.810	0.12	4/2
Nylon tubing green	01.04.808	0.13	4/2
Nylon tubing red	01.04.809	0.14	4/2
Nylon tubing yellow	01.04.811	0.14	4/2
Nylon tubing brown	01.04.717	0.11	4/2
Nylon tubing white	01.04.718	0.11	4/2
Nylon tubing grey	01.04.812	0.14	4/2
Nylon tubing black	01.04.814	0.02	6/4
Nylon tubing black	01.04.815	0.31	8/6
Nylon tubing black	01.04.833	0.48	10/7.5
Nylon tubing black	01.04.816	0.60	12/9

Description	Part No.
Nylon tubing black	01.04.807
Nylon tubing transparent	01.04.806
Nylon tubing blue	01.04.810
Nylon tubing green	01.04.808
Nylon tubing red	01.04.809
Nylon tubing yellow	01.04.811
Nylon tubing brown	01.04.717
Nylon tubing white	01.04.718
Nylon tubing grey	01.04.812
Nylon tubing black	01.04.814
Nylon tubing black	01.04.815
Nylon tubing black	01.04.833
Nylon tubing black	01.04.816



RUBBER HOSES



TECHNICAL DATA

Description	Unit	Value
Feed pressure	psi	150
Material		NR
Temperature range	°F	-25–212

TECHNICAL DATA, SPECIFIC

Description	Part No.	Weight oz/ft	Dimension OD/ID mm
Rubber hose D=10	31.07.605	2.58	10.0
Rubber hose D=12.5	31.07.606	3.23	12.5
Rubber hose D=20	31.07.607	5.16	20.0
Rubber hose D=25	31.07.608	6.45	25.0

Description	Part No.
Rubber hose D=10	31.07.605
Rubber hose D=12.5	31.07.606
Rubber hose D=20	31.07.607
Rubber hose D=25	31.07.608



HOSE CLAMPS



TECHNICAL DATA

Description	Value
Material	SS 2333

TECHNICAL DATA, SPECIFIC

Description	Part No.	Weight, oz	Diameter mm
Hose clamp D=13-20	31.13.821	0.53	13–20
Hose clamp D=15-24	31.13.693	0.53	15–24
Hose clamp D=19-28	31.13.694	0.71	19–28
Hose clamp D=26-38	31.13.822	0.85	26–38
Hose clamp D=32-44	31.13.823	0.85	32–44
Hose clamp D=38-50	31.13.725	0.88	38–50
Hose clamp D=44-56	31.13.695	1.13	44–56
Hose clamp D=50-65	31.13.824	1.27	50–65
Hose clamp D=68-85	31.13.696	1.27	68–85
Hose clamp D=104-138	31.13.825	2.29	104–138
Hose clamp D=130-165	31.13.936	2.47	130–165
Hose clamp D=226-256	31.13.970	2.75	226–256
Hose clamp D=282-308	34.13.604	3.32	282–308

Description	Part No.
Hose clamp D=13-20	31.13.821
Hose clamp D=15-24	31.13.693
Hose clamp D=19-28	31.13.694
Hose clamp D=26-38	31.13.822
Hose clamp D=32-44	31.13.823
Hose clamp D=38-50	31.13.725
Hose clamp D=44-56	31.13.695
Hose clamp D=50-65	31.13.824
Hose clamp D=68-85	31.13.696
Hose clamp D=104-138	31.13.825
Hose clamp D=130-165	31.13.936
Hose clamp D=226-256	31.13.970
Hose clamp D=282-308	34.13.604



PIPE FITTINGS, STRAIGHT



- ► Fulfils the requirements of FDA.
- ► Antistatic.

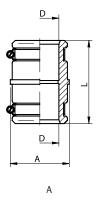
TECHNICAL DATA

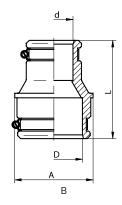
Description	Unit	Value
Material		SS 2333, NBR
Temperature range	°F	-4–257

TECHNICAL DATA, SPECIFIC

Description	Part No.	Weight Ib	D mm	d mm	A in	L in
Pipe fitting straight 22x22 cpl	34.04.008	0.22	22.0	-	1.57	3.23
Pipe fitting straight 32x32 cpl	34.04.007	0.29	32.0	-	1.97	3.23
Pipe fitting straight 40x40 cpl	34.04.006	0.46	40.0	-	2.52	3.86
Pipe fitting straight 50x50 cpl	34.04.004	0.71	51.0	-	3.07	4.33
Pipe fitting straight 75x75 cpl	34.04.002	1.04	76.1	-	4.08	5.12
Pipe fitting straight 100x100 cpl	34.04.005	1.61	101.6	-	5.12	5.91
Pipe fitting straight reducer 32x22 cpl	34.04.012	0.26	32.0	22.0	1.97	3.23
Pipe fitting straight reducer 40x32 cpl	34.04.011	0.40	40.0	32.0	2.52	3.86
Pipe fitting straight reducer 50x40 cpl	34.04.010	0.62	51.0	40.0	3.07	4.33
Pipe fitting straight reducer 75x50 cpl	34.04.003	0.97	76.1	51.0	4.08	5.12
Pipe fitting straight reducer 100x75 cpl	34.04.009	1.43	101.6	76.1	5.12	5.91

	Description	Part No.
Α	Pipe fitting straight 22x22 cpl	34.04.008
Α	Pipe fitting straight 32x32 cpl	34.04.007
Α	Pipe fitting straight 40x40 cpl	34.04.006
Α	Pipe fitting straight 50x50 cpl	34.04.004
Α	Pipe fitting straight 75x75 cpl	34.04.002
Α	Pipe fitting straight 100x100 cpl	34.04.005
В	Pipe fitting straight reducer 32x22 cpl	34.04.012
В	Pipe fitting straight reducer 40x32 cpl	34.04.011
В	Pipe fitting straight reducer 50x40 cpl	34.04.010
В	Pipe fitting straight reducer 75x50 cpl	34.04.003
В	Pipe fitting straight reducer 100x75 cpl	34.04.009







PIPE FITTINGS, Y



- ► Fulfils the requirements of FDA.
- ► Antistatic.

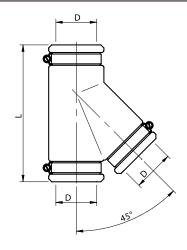
TECHNICAL DATA

Description	Unit	Value
Material		SS 2333
Temperature range	°F	-4–257

TECHNICAL DATA, SPECIFIC

Description	Part No.	Weight Ib	D mm	L in
Pipe fitting Y 3x22 cpl	34.04.018	0.44	22.0	4.65
Pipe fitting Y 3x32 cpl	34.04.017	0.60	32.0	5.24
Pipe fitting Y 3x40 cpl	34.04.016	0.95	40.0	6.06
Pipe fitting Y 3x50 cpl	34.04.015	1.50	51.0	7.13
Pipe fitting Y 3x75 cpl	34.04.014	2.47	76.1	9.29
Pipe fitting Y 3x100 cpl	34.04.013	4.41	101.6	11.5

Description	Part No.
Pipe fitting Y 3x22 cpl	34.04.018
Pipe fitting Y 3x32 cpl	34.04.017
Pipe fitting Y 3x40 cpl	34.04.016
Pipe fitting Y 3x50 cpl	34.04.015
Pipe fitting Y 3x75 cpl	34.04.014
Pipe fitting Y 3x100 cpl	34.04.013





PINCH VALVES



TECHNICAL DATA

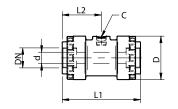
Description	Unit	Value
Feed pressure, max	psi	58
Feed pressure, closing	psi	26–29
Temperature	°F	32–140

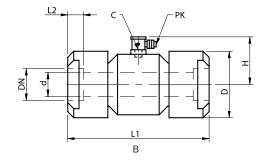
TECHNICAL DATA, SPECIFIC

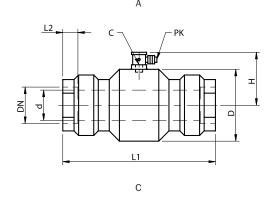
Description	Part No.	Material	Weight Ib
Pinch valve DN20 (4 bar) internal thread	34.04.676	PP, EPDM	0.40
Pinch valve DN32 (4 bar) internal thread	34.04.677	PP, EPDM	1.10
Pinch valve DN25 (8 bar) internal thread	34.04.624	Al, Crude rubber	0.88
Pinch valve DN32 (8 bar) internal thread	34.04.607	Al, Crude rubber	2.29
Pinch valve DN40 (8 bar) internal thread	34.04.625	Al, Crude rubber	3.20
Pinch valve DN50 (8 bar) internal thread	34.04.626	Al, Crude rubber	3.20
Pinch valve DN65 (8 bar) internal thread	34.04.627	Al, Crude rubber	3.20
Pinch valve DN80 (8 bar) internal thread	34.04.628	Al, Crude rubber	3.53
Pinch valve DN40 (4 bar) hoses	34.04.629	Al, Crude rubber	3.20
Pinch valve DN50 (4 bar) hoses	34.04.630	Al, Crude rubber	3.20
Pinch valve DN65 (4 bar) hoses	34.04.631	Al, Crude rubber	9.35
Pinch valve DN80 (4 bar) hoses	34.04.632	Al, Crude rubber	5.95
Pinch valve DN100 (4 bar) hoses	34.04.678	Al, Crude rubber	18.2

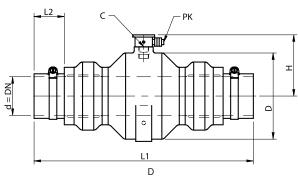


	Description	Part No.
Α	Pinch valve DN20 (4 bar) internal thread	34.04.676
Α	Pinch valve DN32 (4 bar) internal thread	34.04.677
В	Pinch valve DN25 (8 bar) internal thread	34.04.624
В	Pinch valve DN32 (8 bar) internal thread	34.04.607
С	Pinch valve DN40 (8 bar) internal thread	34.04.625
С	Pinch valve DN50 (8 bar) internal thread	34.04.626
С	Pinch valve DN65 (8 bar) internal thread	34.04.627
С	Pinch valve DN80 (8 bar) internal thread	34.04.628
D	Pinch valve DN40 (4 bar) hoses	34.04.629
D	Pinch valve DN50 (4 bar) hoses	34.04.630
D	Pinch valve DN65 (4 bar) hoses	34.04.631
D	Pinch valve DN80 (4 bar) hoses	34.04.632
D	Pinch valve DN100 (4 bar) hoses	34.04.678









Description	d mm	D in	L1 in	H in	PK mm	DN G"	L2 in	C G"
Pinch valve DN20 (4 bar) internal thread	15	2.24	4.06	_	_	3/4"	0.71	1/4"
Pinch valve DN32 (4 bar) internal thread	30	3.50	5.51	_	_	1 1/4"	0.87	1/4"
Pinch valve DN25 (8 bar) internal thread	25	2.56	5.98	2.17	6	1"	0.83	1/8"
Pinch valve DN32 (8 bar) internal thread	32	3.46	7.44	2.48	6	1 1/4"	0.83	1/8"
Pinch valve DN40 (8 bar) internal thread	40	3.74	7.95	2.76	6	1 1/2"	0.79	1/8"
Pinch valve DN50 (8 bar) internal thread	50	4.49	8.27	3.19	8	2"	0.79	1/4"
Pinch valve DN65 (8 bar) internal thread	65	5.51	9.45	3.70	8	2 1/2"	0.79	1/4"
Pinch valve DN80 (8 bar) internal thread	80	6.30	11.2	4.29	8	3"	0.79	1/4"
Pinch valve DN40 (4 bar) hoses	40	3.74	11.1	2.76	6	Ø40	1.57	1/8"
Pinch valve DN50 (4 bar) hoses	50	4.49	11.4	3.19	6	Ø 50	1.57	1/4"
Pinch valve DN65 (4 bar) hoses	65	5.51	13.4	3.70	8	Ø 65	1.97	1/4"
Pinch valve DN80 (4 bar) hoses	80	6.30	15.2	4.29	8	Ø 80	1.97	1/4"
Pinch valve DN100 (4 bar) hoses	100	8.27	17.3	5.00	8	Ø 100	1.97	1/2"



WALL BRACKET



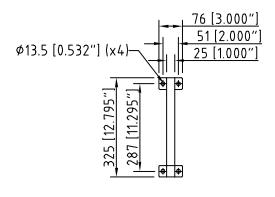
- ► The wall bracket is for mounting a C21 or a C33 vacuum conveyor to a wall.
- ➤ You must order a quantity of (2) for a complete set of brackets.
- ▶ Polished ≤ Ra 0.8.

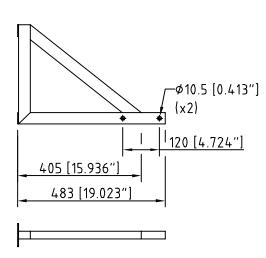
TECHNICAL DATA

Description	Unit	Value
Weight	lb	4.85
Material		304 SS



Description	Part No.
Wall bracket C21/33	01.00.C075







PIAB VACUUM ACADEMY

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