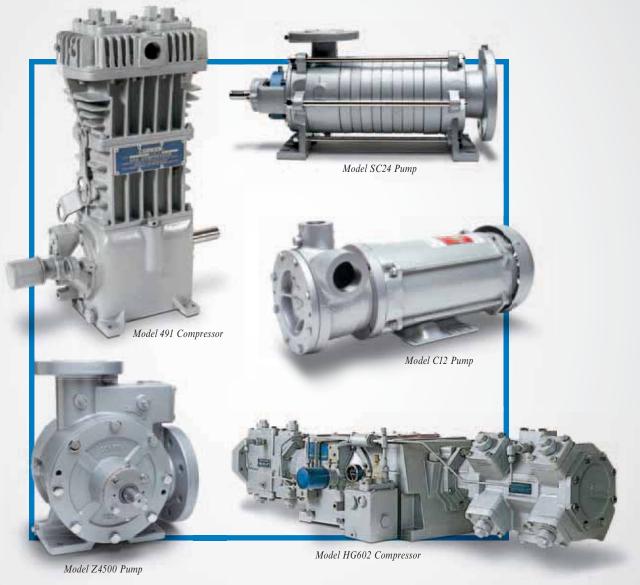
LPG-Series

Stationary Compressors and Pumps for LPG & NH₃ Bulk Plant Applications



Solutions beyond products... CORKEN®

A Tradition of Excellence

Corken is recognized as a global leader in the manufacturer of industrial compressors, pumps, and accessories for LPG, anhydrous ammonia and other flammable, volatile and toxic liquids and gases. Corken's exceptional reputation in the LPG industry is built upon decades of maintaining the highest quality and customer service standards. This, combined with an absolute dedication to product performance, makes Corken a company recognized worldwide for its manufacturing leadership.

Located in Oklahoma City, Oklahoma, USA, Corken was founded in 1924 and quickly gained a reputation for excellence in customer service. In the early 1950s, the company entered the liquid petroleum gas (LPG) industry, which proved to be a turning point. In the years to follow, Corken quickly gained market recognition for its quality line of compressors and pumps for the propane, butane and anhydrous ammonia industries.

In 1991, Corken became part of the IDEX Corporation. IDEX is a global fluid handling leader and is best known for its expertise in highly engineered fluid handling products and systems as well as fire safety and health and science products. Under IDEX's leadership in 2001, Corken became part of the Liquid Controls Group which specializes in moving, measuring and managing high value liquids and gases. Liquid Controls Group is comprised of Corken, Faure Herman, Liquid Controls, Sampi, Sponsler and Toptech Systems.

Through the years, a strong commitment to customer service, product integrity and technological innovation have made Corken a recognized world leader in the compressor and pump markets.

Corken designs and manufactures products meeting industry standards, including Underwriters Laboratories (UL),



Canadian Standards Association (CSA), High Pressure Gas Safety Institute of Japan (KHK), Bureau Veritas of France, European Union (EU) Pressure Equipment Directive (PED), ATEX Equipment Directive, European Union (EU) Machinery Directive and many others. Corken is very proud to join the elite group of companies that have achieved registration with the International Quality Standard ISO 9001 and the Environmental Management Standard ISO 14001.

Today, Corken is a diversified company that serves a worldwide customer base. Corken truck pumps, stationary pumps, compressors and engineered packages are used by a wide range of companies throughout the world, including the Far East, Asia, Africa, Europe, the Middle East, South America and North America. Corken serves each of its customers through an extensive network of distributors—each sharing the same commitment to customer service that Corken has demonstrated for more than 85 years.

QUALITY

ISO 9001





LPG Product Overview



Side Channel Pumps

Multistage regenerative turbine liquid pump.

Applications:

- Propane/butane bulk transfer Barge unloading
- Carousel cylinder filling
- Multi-port butane bottle filling Agricultural ammonia
- Tank/railcar unloading



Coro-Vane® Pumps

Sliding vane positive displacement liquid pump.

Applications:

- Propane/butane bulk transfer Tank/railcar unloading
- Truck/delivery applications
- Agricultural ammonia
- Barge unloading



Coro-Flo® Pumps

Regenerative turbine liquid pump.

Applications:

- Propane cylinder filling
- Bottle filling
- Stand-by systems
- Asphalt plants
- Autogas pumping
- Agricultural ammonia
- · LP-Gas vaporizer feed



Gas Compressors

Single-stage, lube, non-lube gas compressor.

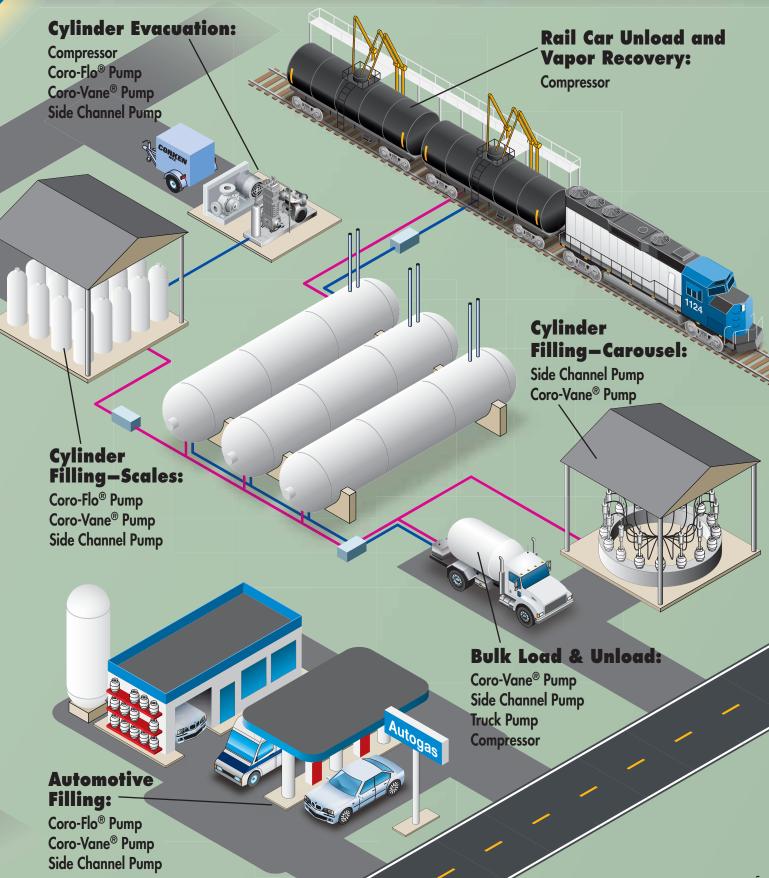
Applications:

- Propane cylinder filling
- Bulk transfer
- Truck/barge/railcar unloading
- Liquid transfer/vapor recovery
- Tank evacuation for maintenance
- LPG/butane/ammonia
- Inert gas pad

Compressors, Pumps and Acc



essories for All of Your Needs



Features and Benefits for Coro-Flo[®] Stationary Pumps

Designed specifically for LPG...

The Corken Coro-Flo[®] pump was designed for LPG, NH₃ and other light liquids. For low-capacity, medium-head pumping, the Coro-Flo pump is the pump of choice. Extremely quiet and free of vibration and pulsation, the Coro-Flo pump provides trouble-free service and long life for volatile liquids such as LPG. The exclusive turbine construction provides smooth continuous flow through the pump case, resulting in higher efficiency and greater capacity and pressure for the same size motor. The one moving part, the impeller, floats on the shaft without contacting adjacent surfaces, thus extending pump life.

Simple to service...

The Coro-Flo[®] pump has been designed for simplicity of inspection and service. The cover can be removed and the impeller and seal serviced without disturbing the piping. The balanced mechanical seal is furnished with its own sleeve, providing extremely reliable service.

Suitable for many applications...

Although the Corken Coro-Flo[®] pump was originally developed to fill propane cylinders, it has found its way into many other applications, especially where volatile liquid transfer is involved. It is commonly used to feed industrial vaporizing and aerosol filling systems, and to transfer liquefied gases like NH₃, CO₂, SO₂ and refrigerant gases. In process plants, the Coro-Flo pump is used as a boiler feed pump and for handling condensate.

Every Corken Coro-Flo[®] pump is thoroughly inspected and tested to assure its quality and performance. The Coro-Flo pump is listed by Underwriters' Laboratories, Inc. for use in LP-Gas and anhydrous ammonia service.



F-Model 101 Direct Drive

> FF-Model w/ANSI Flange Connections



v/ANSI enections

Equipped with a condensate drain...

Since intermittent duty may cause condensate to form inside the motor, all electrical motors for the C-model Coro-Flo pumps are equipped with a special condensate drain. This drain allows the moisture to automatically drain from the motor and reduce the risk of damage due to a large accumulation of moisture.

> **Balanced mechanical seal assembly:** Easily replaced by removing the cover.

Heavy-duty, permanently lubricated ball bearings: Ensure precision operation and long service life.

High flow inlet and discharge: Provides higher efficiency and greater capacity.

3/4" NPT Connection: For easy installation of bypass valve system.

Ductile-iron case and cover: For extra strength and durability.

> Free-floating impeller design: No metal-to-metal contact for longer pump life.

> > The bottom side of the electric motor has a condensate drain to help eliminate problems related to moisture.

Condensate drain (not visible):

DS/DL-Model Direct Mounted

Vaporizer Feed, Cylinder & Automotive Filling

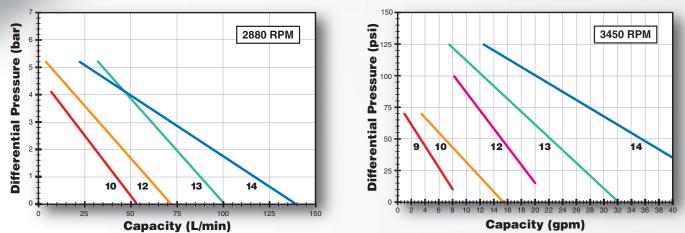


Specifications & Performance

Creations	Model							
Specifications	9	10	12	13	14			
Inlet	1-1/4"	1-1/4"	1-1/2"	1-1/2"	1-1/2"			
Inner	NPT	NPT	NPT	NPT	NPT			
Outlet	1" NPT	1" NPT	1" NPT	1" NPT	1" NPT			
RPM—50 Hz	(a)	2,880	2,880	2,880	2,880			
RPM—60 Hz	3,450	3,450	3,450	3,450	3,450			
Max. differential press. 2880 RPM @ 50 Hz, psi (bar) 3450 RPM @ 60 Hz, psi (bar)	70 (4.8)	60 (4.1) 70 (4.8)	75 (5.2) 100 (6.9)	75 (5.2) 125 (8.6)	75 (5.2) 125 (8.6)			
Mounting options Close coupled Direct driven (101)	Yes	Yes	Yes	Yes	Yes			
V-belt (103)	Yes	Yes	Yes	Yes	Yes			
Direct mounted frame (DS/DL)	Yes	Yes	Yes	Yes	Yes			
Double seal option (except C-model)	Yes	Yes	Yes	Yes	Yes			
Flange option 1-1/2" x 1" – 300# (except C-model)	Yes	Yes	Yes	Yes	Yes			
Impeller material options	Bronze	(standard)	, ductile ir	on, stainles	ss steel			
0-ring material options	Buna-N		, Neoprene lene-propy		Viton ^{®1} ,			
Seal seat material options	Cast Iron (standard), Ni-Resist, stainless steel, tungsten carbide, ceramic							
Minimum/maximum	-25/225	-25/225	-25/225	-25/225	-25/225			
temperature °F (°C)	(-32/107)	(-32/107)	(-32/107)	(-32/107)	(-32/107)			
Maximum driver hp (kW)	5 (3.7)	5 (3.7)	10 (7.5)	10 (7.5)	20 (15)			

(a) Not suitable for 2880 RPM.

¹ Registered trademark of the DuPont Company.



Performance curves are based on aboveground LPG installations. Performance curves for underground LPG tanks will vary based on the specific installation.

Features and Benefits for Side Channel Stationary Pumps

The pump of choice...

For LPG applications that require a high differential pressure or where low NPSH conditions exist, such as pumping from underground tanks, the SC-Series multistage side channel is the pump of choice. The integral centrifugal impeller feature, multi-stage option and ability to handle liquids entrained with gas — up to 50% — provide a new dimension in liquid transfer applications.

Higher differential pressures...

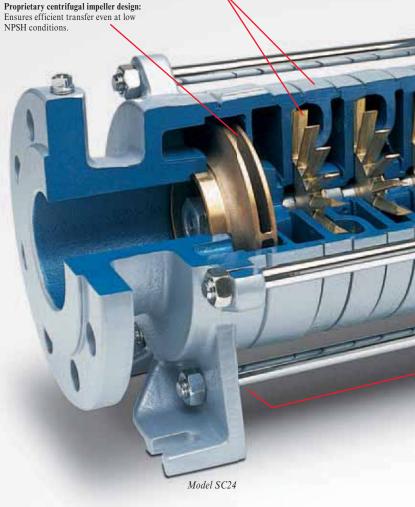
The SC-Series design combines an integral centrifugal impeller with one to eight stages of open radial vane impellers. This combination creates flow characteristics that make this pump special. The integral centrifugal impeller ensures the pump is always primed while the multistage option enables the pump to reach higher differential pressures. It's ideal for applications with a low net positive suction head (NPSH).

Available with a mechanical seal or sealles magnetic drive...

The side channel pumps are available with a mechanical seal (SC models) or a sealless magnetic drive (SCM models). The mechanically sealed SC models offer a wide range of seal types (single unbalanced, single balance and double balanced) that minimize leakage to the atmosphere. On a sealless magnetic drive, there are no seals to maintain or potential leak paths so the SCM models meet the most stringent environmental regulations.

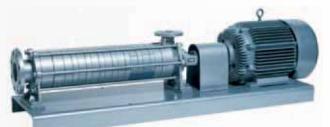
Many sizes to match your needs...

Six different sizes, each ranging from one to eight stages, provide solutions for a wide range of pressures, capacities, and liquid transfer requirements. Multiple material and sealing options, enabling it to handle many different liquids, enhance the versatility of the SC-Series pumps. Typical installations are LPG cylinder filling, vaporizer feeding, pumping from underground storage and bulk filling operations. **Multiple material options for impellers and casing:** Ductile iron casing, brass impellers, and Viton[®] are standard for LPG applications.



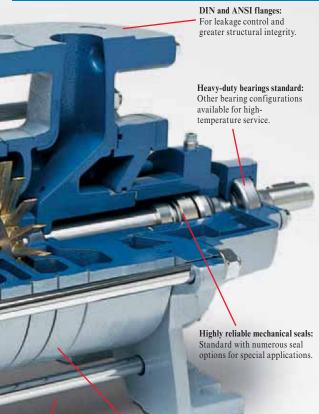


Sealless (SCM Model) Magnetic Drive



Side Channel (SC Model) with Direct-Coupled Drive

Bulk Filling, Carousel Filling & Vaporizor Feeding

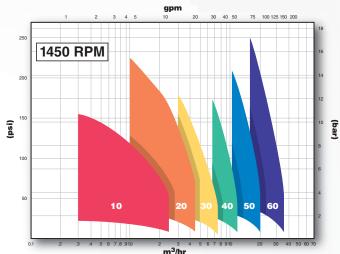


drity. Specifications & Performan

Specifications	Model								
opecifications	10	20	30	40	50	60			
Number of stages	1 to 8								
Inlet flange inches (mm)	1-1/2 (40)	2-1/2 (65)	2-1/2 (65)	3 (80)	4 (100)	4 (100)			
Outlet flange inches (mm)	3/4 (20)	1-1/4 (32)	1-1/4 (32)	1-1/2 (40)	2 (50)	2-1/2 (65)			
RPM—50 Hz	1,450	1,450	1,450	1,450	1,450	1,450			
RPM—60 Hz	1,750	1,750	1,750	1,750	1,750	1,750			
Max. working pressure psi (bar)	580 (40)	580 (40)	580 (40)	580 (40)	580 (40)	580 (40)			
Differential press. range psi (bar)	10–150 (0.7–10.3)	15–230 (1–15.9)	10–180 (0.7–12.4)	10–175 (0.7–12.1)	10–210 (0.7–14.5)	10–250 (0.7–17.2)			
Minimum temperature °F (°C)	-40° (-40°)	-40° (-40°)	-40° (-40°)	-40° (-40°)	-40° (-40°)	-40° (-40°)			
Maximum temperature °F (°C)	428° (220°)	428° (220°)	428° (220°)	428° (220°)	428° (220°)	428° (220°)			
NPSH range ft (m)	1.6–13 (0.5–4)	2–3.3 (0.6–1)	1.6–6.6 (0.5–2)	1.3–8.2 (0.4–2.5)	1.3–12 (0.4–3.5)	4.6-8.2 (1.4-2.5)			
Maximum viscosity SSU (cSt)	1,050 (230)	1,050 (230)	1,050 (230)	1,050 (230)	1,050 (230)	1,050 (230)			
Maximum proportion of gas allowable	50%	50%	50%	50%	50%	50%			
DIN flange option	Yes	Yes	Yes	Yes	Yes	Yes			
ANSI flange option	No	Yes	Yes	Yes	Yes	Yes			
Casing material option	Ductile iron (standard), cast iron, stainless steel								
Impeller material option	Bronze (standard), steel, stainless steel ¹								
O-ring material option		Viton ^{®2} (sta	andard), PT	FE, ethylene	e-propylene				
Double seal option	Yes	Yes	Yes	Yes	Yes	Yes			
Magnetic drive option	Yes	Yes	Yes	Yes	Yes	No			
High temp. option	Yes	Yes	Yes	Yes	Yes	Yes			
Internal relief option	No	No	No	No	No	No			

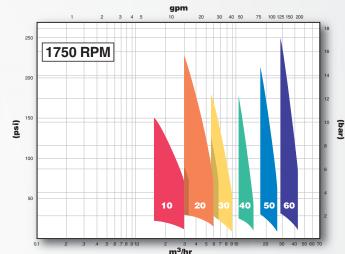
Multiple side channel stages: Provide self-priming, highdifferential pressure, nonpulsating, trouble-free operation.

Modular construction: Minimizes spare parts requirements.



¹ Stainless steel impeller not available on Model 60.

² Registered trademark of the DuPont Company.



Features and Benefits for Coro-Vane[®] Stationary Pumps

High pumping efficiencies...

The positive displacement, sliding-vane design of the Coro-Vane[®] pump is commonly found in the LPG industry because its pumping efficiencies remain high throughout the life of the pump. The sliding vane pump is unique because it can handle small amounts of vapor formed at the pump suction, and the vanes are self-adjusting for wear. These design characteristics help the pumping efficiencies remain high throughout the life of the pump.

Long life and maintenance made simple...

The pump housing and rotors are constructed of ductile iron for high strength. The pump design includes removable pump casing liners in all models. Worn liners and vanes can be replaced in minutes. All models incorporate reversible sideplates which double their service life. Seal maintenance can be easily performed by simply removing the head assembly.

Several models to match your needs...

Corken manufactures four sizes of stationary pumps ranging from 1 gpm to 382 gpm (3.785 to 1,446 L/min). Each pump is available with a V-belt or direct-drive mounting option.

Models C51 and F51: The model 51 is a one-inch stationary pump designed for small bottle filling applications ranging from 1 to 6 gpm (3.785 to 23 L/min). The model C51 is a closed-coupled mounting while the model F51 is a direct-coupled mounting.

Model Z2000: The Z2000 pump is a two-inch, foot mounted, stationary pump designed for smaller LPG plant applications such as cylinder filling and bulk filling. In some regions of the world, the model Z2000 doubles as a truck pump.

Model Z3500: The model Z3500 is a three-inch, foot mounted, stationary pump designed for medium sized LPG applications such as bulk filling and bobtail trucks. It is ideal for loading and unloading applications for single or dual bobtails. The Z3500 was designed to replace and retrofit Corken's model 1021 pump, so no changes in the piping are necessary. You simply remove the model 1021 and install the new Z3500. In some regions of the world, the Z3500 doubles as a truck pump.

Reversible sideplates add twice the life: Sideplates are easily reversed/replaced by removing just twelve head bolts.

Cam design: Computer designed porting and profiling of the cam reduces cavitation and improves the pumping efficiency.

Model Z4500: The model Z4500 is a four-inch, ANSI flanged, stationary pump designed for large sized LPG applications. It's ideal for transport and multiple bobtail loading applications. If you have two or more bulkheads to load transports or multiple bobtails and would like to shorten your fill times, then the Z4500 is the stationary pump for you.

All of the Z-Series Coro-Vane[®] stationary pumps come with an internal relief valve for added pump protection, relieving the pressure from the pump discharge back to the suction. All pumps must have an external bypass valve to comply with NFPA & UL requirements.

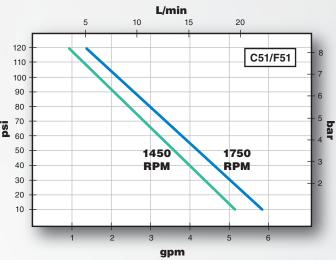
Bulk Filling, Carousel Filling & Cylinder Filling

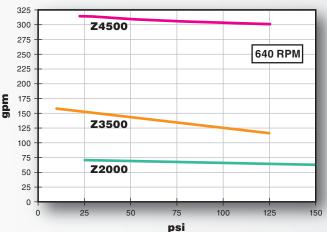


Specifications & Performance

Cracifications	Model							
Specifications	C51/F51	Z2000	Z3500	Z4500				
Suction flange	1"	2"	3"	3" ANSI				
Discharge flange	3/4"	2"	3"	3" ANSI				
Minimum RPM	1,450	420	420	420				
Maximum RPM	1,750	780	800	800				
Minimum temperature		-25°F	(-32°C)					
Maximum temperature		225°F	(107°C)					
Max. working pressure psig (bar)	350 (25.2)	400 (28.6)	400 (28.6)	400 (28.6)				
Max. differential pressure psig (bar)	125 (8.6)	125 (8.6)	125 (8.6)	125 (8.6)				
Internal relief	Yes	Yes	Yes	No				
O-ring material options:	Buna-N (standard), PTF	E, Viton ^{®1} , Ne	oprene ^{®1}				
Seal seat material options:	Cast iror	n (standard), st	ainless steel, N	Vi-Resist				
Suction flange option	No	Yes	Yes	No				
Discharge flange option	No	Yes	Yes	No				
Maximum driver hp (kW)	2 (1.5)	10 (7.5)	20 (15.0)	25 (18.5)				

¹ Registered trademark of the DuPont Company.





Bearing: Patented needle roller

thrust bearings rated for 4,000 lbs minimizes sideplate wear. Typically, no field adjustment is required.

Model Z3500



C51 Direct-Coupled Mounting



Z4500-101GRC Mounting with Gear Reducer

Features and Benefits for Vertical Gas Compressors

Why select a compressor to transfer LPG and NH₃?

Many LPG piping systems do not provide ideal NPSH conditions for liquid pumps. As a result, the poor NPSH conditions lead to excessive pump maintenance. Since compressors are only exposed to vapors, they are not affected by poor NPSH conditions. Many LPG pressurized tanks such as railcars and buried tanks have top unloading connections. A compressor is the perfect solution for transferring liquids to and from these types of tanks.

Compressors offer maximum versatility...

Corken compressors are designed for maximum versatility. A compressor can be piped for multiple plant applications. For example, a rail car unloading compressor can also be utilized to load and unload trucks.

Compressors serve many other types of applications as well. They can be used to transfer liquids between tanks, off-load/ load-out liquids, recover residual vapor, and evacuate tanks for maintenance purposes.

Several models to match your needs...

Corken offers five sizes of vertical, single-stage compressors (Models 91, 291, 491, 691 & 891) for LPG/NH₃ applications. The compressors are available with threaded or ANSI flanged connections and cover a full range of capacities ranging from 4.1 to 117 cfm (7.0 to 198.8 m³/hr) of liquid transfer. ANSI is a raised faced flange that dramatically improves leakage containment and structural integrity.

Piston rod packing design...

Corken's standard LPG vertical compressors are a plain style design that uses one set of V-ring packing or a combination of V-ring and segmented packing. Most of Corken's LPG vertical compressors use a single set of V-ring packing (plain-style). The only exception is the model D891 which uses a combination of V-ring packing and segmented packing. Even though the D891 is a D-style compressor, it is the only D-style compressor that is not oil free. All other D-style compressors are oil free.

V-ring packing consists of several V-rings, male and female packing rings, washers and a spring while segmented packing consists of packing cups, spacers, O-rings, segmented packing, backup rings and a spring. Neither of these plain style packing arrangements are oil-free designs. If oil-free gas compression is required, Corken's D- or T-style compressors are recommended.

Single-stage vertical compressors...

Corken's single-stage compressors are typically used in applications where the gas compression ratio is less than 5:1. Generally, applications with relatively low differential pressures are well suited for a single-stage compressor. Transport, rail car and marine unloading by vapor differential are examples of this type of application.

Single-acting designs with a wide range of capacities...

Single-acting vertical compressors only have one compression stroke per revolution so the compression takes place on one side (top) of the piston. The single-acting compressors come in a variety of models. Cylinder sizes range from 3.0" to 4.5" (76.2 to 114.3 mm) while piston displacement ranges from 4.1 to 60.8 cfm (7.0–103.3 m³/hr).

Double-acting design for even greater capacity...

Double-acting compressors have two compression strokes per revolution so the compression takes place on both sides of the piston. As a result, double-acting compressors offer greater capacities. Corken's model 891 is a double-acting single-stage gas compressor that is capable of supplying between 56.7 and 117.0 cfm (96.3 and 198.8 m³/hr). The model D891 is offered in either lubricated or non-lubricated versions and is not an oil-free design; however, the T891 (T-style) compressor does offer oil-free gas compression.

Cylinder Evacuation, Bulk Transfer and Recovery

Threaded and ANSI flanges: Compressors are available in either threaded NPT, ANSI, or DIN flanged connections.

High-efficiency valves: Corken valves are quiet and highly durable. Special designed suction valves that tolerate small amounts of condensate are available.

O-ring head gaskets: Easy to install O-ring head gaskets providing highly reliable seals.

Ductile- iron construction: All cylinders and heads are ductile iron for maximum thermal shock endurance.

Self-lubricating PTFE piston rings: Corken provides a variety of state-of-theart piston ring designs to provide the most cost-effective operation of compressors

cost-effective operation of compressors for non-lube service. The step-cut design provides higher efficiencies during the entire life of the piston ring.

Positively locked piston: Simple piston design allows end clearance to be precisely set to provide maximum efficiency and long life.

Self-lubricating piston rod seals: Seals constructed of PTFE incorporating special fillers to ensure no oil carry over and maximize leakage control. Spring loaded seal design self adjusts to compensate for normal wear.

Nitride-coated piston rods: Impregnated nitride coating provides superior corrosion and wear resistance.

Cast-iron crosshead: Durable cast-iron crossheads provide superior resistance to corrosion and galling.

Model F291 (single acting)

Pressure-lubricated crankcase with filter: Self-reversing oil pump ensures proper lubrication regardless of directional rotation to main and connecting rod bearings. Standard 10-micron filter ensures long-lasting bearing life (not available on Model 91).





Model D891 (double acting)

Model 491 (single acting)

Maintenance made simple...

Corken compressors are designed to simplify routine maintenance procedures. Maintenance operations such as valve replacement may be accomplished without disturbing the piping, while ring replacement may be accomplished simply by removing the head.

Designed for a variety of applications...

Corken gas compressors are designed for use in liquid transfer, vapor recovery, scavenger and portable applications. Whether it is gas recovery from cylinders or barge unloading, Corken has a compressor for your application.

Custom engineered compressor packages available...

Corken offers standard mountings designed specifically for liquefied gas transfer, vapor recovery and gas booster applications. If the standard mountings and compressor packages do not meet your application requirements, Corken can supply a custom engineered package that meets the most demanding customer specifications. Skid mounted units can be supplied with control panels, safety controls, pulsation dampeners, receiver tanks, valves and other special accessories as required. For more details, see the standard mounting and compressor packages and custom engineered packages at the back of this sales brochure.

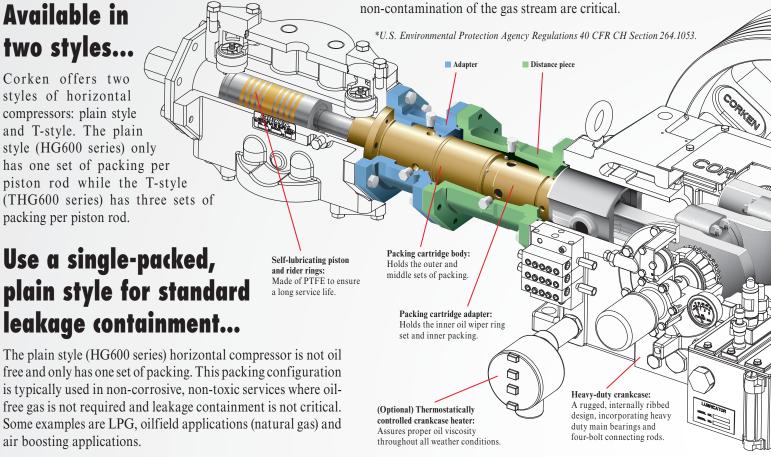
Features and Benefits for Horizontal Gas Compressors

Obtain higher pressures and capacities with a horizontal compressor...

When the pressures or capacities of your application are beyond the capabilities of a vertical compressor, Corken's horizontal compressor is your next option. The horizontal compressor is a two-throw design that can build up to 1,650 psig (113.8 bar g). The available piston displacement ranges from 7.6 cfm (12.9 m³/hr) to 414 cfm (704 m³/hr). This balanced opposed compressor offers smooth, quiet operation and the flexibility of changing cylinder sizes as needed to optimize the compressor for the desired operating conditions. Cylinder sizes are 8" (203.2 mm), 6" (152.4 mm), 5" (127.0 mm), 4" (101.4 mm), 3.25" (82.6 mm), and 2.75" (69.9 mm). These cylinders can be arranged in various single-stage and two-stage configurations. Lubricated, non-lubricated, and oil-free versions are available.

Use a triple-packed, T-style for maximum leakage containment...

The T-style (THG600 series) is a non-lubricated, oil-free design with three sets of packing that form two distance pieces or barriers to external leakage (see figure 2 for details). For a wide range of application flexibility, each distance piece has its own line connections that can be pressurized, purged or vented separately. This allows you to choose the best method of containment for your application. When properly equipped with a purge kit, Corken's double-distance piece (T-style) provides precise leakage control and complies with the EPA's requirements* for fugitive emissions control of volatile organic compounds (VOC). For added convenience, purge kits with all of the accessories needed to control the purging or pressurization of each chamber are available. T-styles are typically used in corrosive or toxic applications where leakage containment and non-contamination of the gas stream are critical.



Tanker and Multiple Railcar Unloading and Recovery

Piston rod packing design...

Unlike Corken's vertical compressor that uses a V-ring packing design, the horizontal compressor uses segmented purge packing to seal the piston rod. Segmented purge packing consists of purge packing cups, spacers, O-rings, segmented packing, backup rings and springs.

Oil-free gas compression...

Corken's T-style (double-distance piece) horizontal compressors are oil free so there's no contamination of the process gas stream. The T-style has three sets of segmented packing. Since the distance between each set of packing is greater than the stroke of the compressor, there's no rod over travel or oil carryover. In other words, the portion of the piston rod that comes into contact with the first set of packing will never reach the second set of packing while the portion of the piston rod that comes into contact with the second set of packing will never reach the third set of packing. In the event that oil gets past the inner packing set, the oil deflector ring keeps the oil from reaching the outer distance piece (see figure 2 for details).

Inner oil wiper rings

Inner distance piece (Barrier 1)

(Optional) Force-feed lubricator:

cylinders and packing when required.

Assures proper lubrication of

Outer distance piece (Barrier 2)

Inner packing

Oil deflector ring

Middle packing

Outer packing

Available in single- or doubleacting configurations...

The plain and T-style horizontal compressors are available in single-or double-acting configurations. Single-acting configurations are ideal for applications that require low flow and high pressure while double-acting configurations offer maximum capacity. Single-acting configurations require a blank valve option.

External crankcase oil cooler...

Corken's industrial compressors are equipped with a forcefeed-lubrication system and external oil filter. For applications that require a high horsepower, Corken recommends an optional external oil cooler. This will ensure a consistent oil temperature and an optimal service life for the compressor.

Custom engineered compressor packages available...

Corken offers standard mountings designed specifically for liquefied gas transfer, vapor recovery and gas booster applications. If the standard mountings and compressor packages do not meet your application requirements, Corken can supply a custom engineered package that meets the most demanding customer specifications. Skid mounted units can be supplied with control panels, safety controls, pulsation

> Enables you to change the capacity and

BHP requirements

Placement of valves:

Makes inspection and

maintenance simple.

dampeners, receiver tanks, valves and other special accessories as required. For more details, see the standard mounting and compressor packages Variable clearance head: and custom engineered packages at the back of this sales brochure.

Heavy-duty cylinder design: Each cylinder is hydrostatically tested to 1-1/2 times the rated working pressure for maximum strength.

Vertical Gas Compressors

Operating Specifications

Specifications			Model		
Specifications	91	291	491	691	891 ^a
Bore of cylinder: inches (mm)	3.0 (76.2)	3.0 (76.2)	4.0 (101.6)	4.5 (114.3)	4.5 (114.3)
Stroke: inches (mm)	2.5 (63.5)	2.5 (63.5)	3.0 (76.2)	4.0 (101.6)	4.0 (101.6)
Piston displacement cfm (m ³ /hr)					
minimum @ 400 RPM	4.1 (7.0)	8.2 (13.9)	17.5 (29.7)	29.5 (50.1)	56.7 (96.3)
maximum @ 825 RPM	8.4 (14.3)	16.9 (28.7)	36.0 (61.2)	60.8 (103.3)	117 (198.8)
Maximum working pressure: psig (bar g)	335 (23.1)	335 (23.1)	335 (23.1)	335 (23.1)	450 (31.0)
Maximum brake horsepower (kW)	7.5 (5.6)	15 (11)	15 (11)	35 (26.1)	45 (34)
Maximum rod load lb (kg)	3,600 (1,633)	3,600 (1,633)	4,000 (1,814)	7,000 (3,175)	7,000 (3,175)
Maximum outlet temperature °F (°C)			350 (177)		
Minimum inlet temperature °F (°C)			-25 (-32)		
Bare unit weight lb (kg)	150 (68.0)	210 (95.2)	390 (176.9)	745 (337.9)	900 (408.2)
Maximum flow-propane gpm (m ³ /hr)	50 (11.4) ^b	101 (22.9) ^b	215 (48.8) ^b	361 (82.0) ^b	694 (157.6) ^b
ANSI/DIN flange option	Yes	Yes	Yes	Yes	No

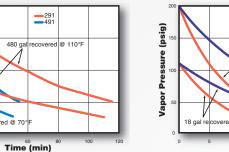
^a Double-acting vertical compressor.

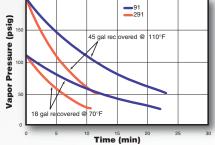
^b Maximum flow is based on 825 RPM or maximum hp, 30 psid. Capacities shown are based on 100°F (37.8°C) and will vary depending upon piping, fittings, product being transferred, and temperature. The factory will supply a detailed compressor analysis if required.

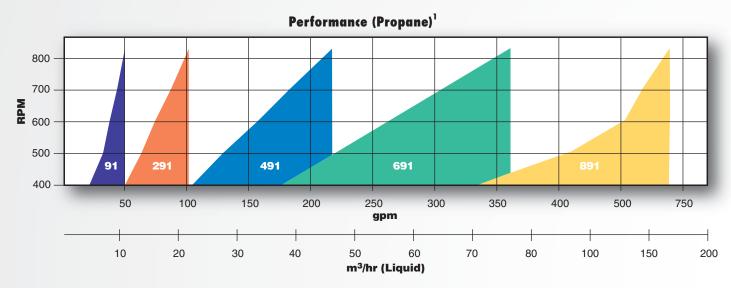
33,000 Gallon (124,918 Liter) Tank¹ 10,000 Gallon (37,854 Liter) Tank¹

Vapor Pressure (psig)

1,000 Gallon (3,785 Liter) Tank¹







¹ Capacities shown are based on 100 °F (37.8 °C) and will vary depending upon piping, fittings, product being transferred, and temperature. The factory will supply a detailed compressor analysis if required.

Horizontal Gas Compressors

Operating Specifications

Single-Stage Horizontal Compressors

Single Cylinder Models	HG601AX	HG601BX	HG601CX	HG601DX	HG601EX	HG601FX
Single Cyllinder Models	THG601AX	THG601BX	THG601CX	THG601DX	THG601EX	THG601FX
Size	8"	6"	5"	4"	3.25"	2.75"
Displacement cfm (m ³ /hr)						
400 rpm	68.8 (116.9)	38.4 (65.2)	26.4 (44.9)	16.8 (28.5)	10.8 (18.3)	7.6 (12.9)
1200 rpm	207.0 (351.7)	115.0 (195.4)	79.2 (134.4)	49.8 (84.6)	32.2 (54.5)	22.8 (56.0)
Approximate shipping weight lb	. (kg.)					
HG model	730 (331.1)	650 (295.0)	640 (290.3)	630 (285.8)	620 (281.2)	620 (281.2)
THG model	780 (353.8)	700 (317.5)	690 (313.0)	680 (308.4)	670 (303.9)	670 (303.9)
Two Cylinder Models	HG601AA	HG601BB	HG601CC	HG601DD	HG601EE	HG601FF
Two Cymruer mouers	THG601AA	THG601BB	THG601CC	THG601DD	THG601EE	THG601FF
Size	8" x 8"	6" x 6"	5" x 5"	4" x 4"	3.25" x 3.25"	2.75" x 2.75"
Displacement cfm (m ³ /hr)						
400 rpm	138 (234.5)	76.8 (130.5)	52.8 (89.7)	33.2 (56.4)	21.2 (36.0)	14.8 (25.1)
1200 rpm	414 (704)	231 (393)	158.4 (268.8)	99.6 (169.2)	64 (108.7)	44.4 (75.6)
Approximate shipping weight lb.	(kg.)					
HG model	1,070 (485.4)	910 (412.8)	890 (403.7)	870 (394.6)	845 (383.3)	845 (383.3)
THG model	1,170 (530.7)	1,010 (458.1)	990 (449.1)	970 (440.0)	945 (428.7)	945 (428.7)

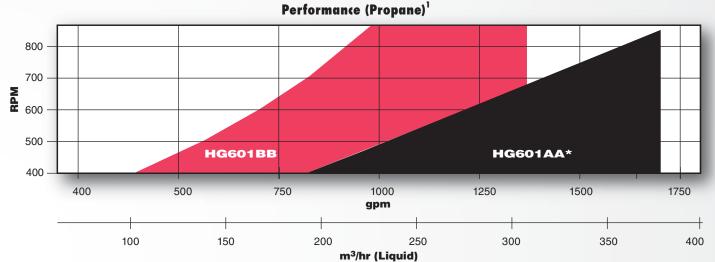
Cylinder Data

Description	Cylinder Code								
Description	Α	В	C	D	E	F			
Cylinder bore	8	6	5	4	3.25	2.75			
in. (mm)	(203.2)	(152.4)	(127)	(101.6)	(82.6)	(69.9)			
Maximum working pressure psig (bar g)	300.0 (20.7)	350 (24.1)	750 (51.7)	1,000.0 (69.0)	1,200.0 (82.8)	1,650.0 (113.8)			

Frame Data

Stroke inches (mm)	3.0 (76.2)
Maximum gas rod load lb (kg)	7,000 (3,175.2)
Maximum motor size hp (kW)	75 (55.9)
Maximum discharge temperature °F (°C) ^a	350 (177)
Minimum temperature °F (°C)	-25 (-32)
RPM range	400 - 1,200

^a 350°F discharge temperature requires use of high temperature
O-rings, such as PTFE or Viton. Maximum recommended discharge temperature for use with Buna-N or Neoprene^b O-rings is 250°F.
^b Registered trademark of the DuPont company.



¹ Capacities shown are based on 100 °F (37.8 °C) and will vary depending upon piping, fittings, product being transferred, and temperature. The factory will supply a detailed compressor analysis if required.

* Maximum 75 hp is reached at 845 RPM

Propane Compressor Selection Table

								Driver Ho	rsepower		1	
		Displacement	Comp	ressor		eave Size)." ²	Residu	ansfer and al Vapor overy	Liquid 1 without	Transfer Residual Recovery	Pipin	g Size ³
Service	Capacity ¹	cfm	Model	RPM	1,750 RPM		100°F	80°F	100°F	80°F	Vapor	Liquid
	23	4	91	400	A 3.0	A 3.6	5	3	3	3	3/4	1-1/4
Small	29	5	91	505	A 3.8	B 4.6	5	5	5	5	3/4	1-1/4
bulk	34	6	91	590	B 4.6	B 5.6	5	5	5	5	1	1-1/4
plants	40	7	91	695	B 5.4	B 6.6	5	5	5	5	1	1-1/2
P	39	7	290,291	345	A 3.0	A 3.6	3	3	3	3	1	1-1/2
	45	8	91	795	B 6.2	B 7.4	7-1/2	7-1/2	7-1/2	7-1/2	1	1-1/2
	44	8	290,291	390	A 3.4	B 4.0	5	3	3	3	1	1-1/2
	50	9	290,291	435	A 3.8	B 4.6	5	5	3	3	1	1-1/2
Unloading	56	10	290,291	490	B 4.4	B 5.2	5	5	5	5	1	2
J	61	11	290,291	535	B 4.8	B 5.8	5	5	5	5	1	2
single	66	12	290,291	580	B 5.2	B 6.2	7-1/2	5	5	5	1	2
tank	71	13	290,291	625	B 5.6	B 6.6	7-1/2	5	7-1/2	5	1-1/4	2
car or	79	14	290,291	695	B 6.2	B 7.4	7-1/2	7-1/2	7-1/2	7-1/2	1-1/4	2
transport	84	15	290,291	735	B 6.6	B 8.0	10	7-1/2	10	7-1/2	1-1/4	2-1/2
	84	15	490,491	345	A 3.0	A 3.6	7-1/2	7-1/2	5	5	1-1/4	2-1/2
	89	16	290,291	780	B 7.0	B 8.6	10	10	10	10	1-1/4	2-1/2
	89	16	490,491	370	A 3.2	A 3.8	7-1/2	7-1/2	7-1/2	5	1-1/4	2-1/2
	95	17	490,491	390	A 3.4	B 4.0	7-1/2	7-1/2	7-1/2	7-1/2	1-1/4	3
	101	18	490,491	415	A 3.6	B 4.4	10	7-1/2	7-1/2	7-1/2	1-1/4	3
	106	19	490,491	435	A 3.8	B 4.6	10	7-1/2	7-1/2	7-1/2	1-1/4	3
	108	20	490,491	445	B 4.0	B 4.8	10	7-1/2	7-1/2	7-1/2	1-1/4	3
Unloading	114	21	490,491	470	B 4.2	B 5.0	10	7-1/2	7-1/2	7-1/2	1-1/4	3
two or	119	22	490,491	490	B 4.4	B 5.2	10	10	7-1/2	7-1/2	1-1/4	3
more	125	23	490,491	515	B 4.6	B 5.6	10	10	10	7-1/2	1-1/4	3
tank	130	24	490,491	535	B 4.8	B 5.8	15	10	10	10	1-1/4	3
cars at	136	25	490,491	560	B 5.0	B 6.0	15	10	10	10	1-1/4	3
one time	141	26	490,491	580	B 5.2	B 6.2	15	10	10	10	1-1/4	3
or large	147	27	490,491	605	B 5.4	B 6.4	15	10	15	10	1-1/4	3
transport	152	28	490,491	625	B 5.6	B 6.6	15	15	15	15	1-1/2	3
with	158	29	490,491	650	B 5.8	B 7.0	15	15	15	15	1-1/2	3
excess	163	30	490,491	670	B 6.0		15	15	15	15	1-1/2	3
flow	163	30	690,691	400	B 4.4	B 5.2	15	15	10	10	1-1/2	3
valves of	168	31	490,491	695	B 6.2	B 7.4	15	15	15	15	1-1/2	3
adequate	171	31	690,691	420	B 4.6	B 5.6	15	15	10	10	1-1/2	3
capacity	179	32	490,491	740	B 6.6	B 8.0	15	15	15	15	1-1/2	3
in a solution of the	178	32	690,691	440	B 4.8	B 5.8	15	15	10	10	1-1/2	3
	186	34	690,691	455	B 5.0	B 6.0	15	15	15	10	1-1/2	3
	193	35	690,691	475	B 5.2	B 6.2	15	15	15	10	1-1/2	3
	200	36	690,691	495	B 5.4	B 6.4	15	15	15	15	1-1/2	3
	208	38	690,691	510	B 5.6	B 6.8	20	15	15	15	1-1/2	4
	215	39	690,691	530	B 5.8	B 7.0	20	15	15	15	1-1/2	4
	223	41	690,691	550	B 6.0	A 7.0	20	15	15	15	1-1/2	4
Unloading	230	42	690,691	565	B 6.2	B 7.4	20	15	15	15	2	4
large	237	43	690,691	585	B 6.4	A 7.4	20	15	15	15	2	4
tank	245	45	690,691	605	B 6.6	B 8.0	20	15	15	15	2	4
cars,	252	46	690,691	620	B 6.8		20	20	15	15	2	4
multiple	260	47	690,691	640	B 7.0	A 8.2	20	20	20	15	2	4
vessels,	275	48	690,691	675	B 7.4	B 8.6	25	20	20	20	2	4
barges or	297	54	690,691	730	B 8.0	B 9.4	25	20	20	20	2	4
terminals	319	58	690,691	785	B 8.6		25	20	25	20	2	4
	334	60	690,691	820	TB 9.0	A 10.6	30	25	25	20	2	4
	452	82	D891	580	5V 7.1	5V 8.5	30	30	30	30	3	6
	623	113	D891	800	5V 9.75	5V 11.8		40	40	30	3	6

¹ The capacities shown are based on 70°F, but will vary depending upon piping, fittings used, product being transferred and temperature. The factory can supply a detailed computer analysis if required.
² Driver sheaves: 91 - 2 belts; 290,291,490,491 - 3 belts; 690,691 - 4 belts.

³ The piping sizes shown are considered minimum. If the length exceeds 100 ft, use the next larger size.

Consult factory for compressors with higher flows.

Ammonia Compressor Selection Table

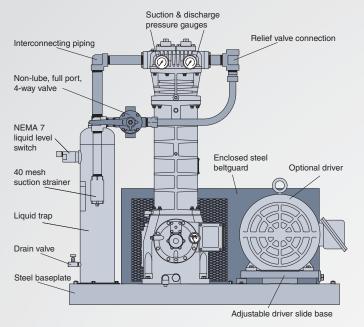
								Driver Ho	rsepower			
								ansfer and		Transfer		
						eave Size		al Vapor		Residual		a , 1
Comico	0	Displacement		ressor		" 2	<u>Rec</u> 100°F	overy		lecovery		g Size ³ Liauid
Service	Capacity ¹ 23	cfm 4	Model 91	RPM 400	1,750 RPM A 3.0	1,450 RPM A 3.6	5	80°F 3	100°F 3	80°F 3	Vapor 3/4	1-1/4
Small	23	4 5	91	400 505	A 3.0	A 3.0 B 4.6	5	5	5	3	3/4	1-1/4
bulk	34	6	91	590	B 4.6	B 5.6	5	5	5	5	1	1-1/4
plants	40	7	91	695	B 5.4	B 6.6	5	5	5	5	1	1-1/2
	43	7	290,291	345	A 3.0	A 3.6	5	3	3	3	1	1-1/2
	46	8	91	795	B 6.2	B 7.4	7-1/2	5	5	5	1	1-1/2
	45	8	290,291	390	A 3.4	B 4.0	5	3	3	3	1	1-1/2
	50	9	290,291	435	A 3.8	B 4.6	5	5	3	3	1	1-1/2
Unloading	56	10	290,291	490	B 4.4	B 5.2	5	5	5	3	1	2
single	62	11	290,291	535	B 4.8	B 5.8	7-1/2	5	5	5	1	2
tank	67 72	12 13	290,291	580 625	B 5.2 B 5.6	B 6.2 B 6.6	7-1/2 7-1/2	5	5	5	1 1-1/4	2
car or	80	13	290,291 290,291	625 695	В 5.0 В 6.2	в 6.6 В 7.4	7-1/2	7-1/2	7-1/2	5	1-1/4	2
transport	85	14	290,291	735	B 6.6	B 7.4 B 8.0	10	7-1/2	7-1/2	7-1/2	1-1/4	2-1/2
	85	15	490,491	345	A 3.0	A 3.6	7-1/2	7-1/2	5	5	1-1/4	2-1/2
	90	16	290,291	780	B 7.0	B 8.6	10	7-1/2	7-1/2	7-1/2	1-1/4	2-1/2
	90	16	490,491	370	A 3.2	A 3.8	10	7-1/2	5	5	1-1/4	2-1/2
	96	17	490,491	390	A 3.4	B 4.0	10	7-1/2	5	5	1-1/4	3
	102	18	490,491	415	A 3.6	B 4.4	10	7-1/2	7-1/2	7-1/2	1-1/4	3
	107	19	490,491	435	A 3.8	B 4.6	10	7-1/2	7-1/2	7-1/2	1-1/4	3
	110	20	490,491	445	B 4.0	B 4.8	10	7-1/2	7-1/2	7-1/2	1-1/4	3
Unloading	115	21	490,491	470	B 4.2	B 5.0	10	7-1/2	7-1/2	7-1/2	1-1/4	3
two or	120	22	490,491	490	B 4.4	B 5.2	15	10	7-1/2	7-1/2	1-1/4	3
more	126	23	490,491	515	B 4.6	B 5.6	15	10	7-1/2	7-1/2	1-1/4	3
tank	131	24	490,491	535	B 4.8	B 5.8	15	10	10	7-1/2	1-1/4	3
cars at one time	138 142	25 26	490,491	560 580	B 5.0	B 6.0 B 6.2	15 15	10 10	10	7-1/2 7-1/2	1-1/4	3
or large	142	20 27	490,491 490,491	605	B 5.2 B 5.4	в 6.2 В 6.4	15	10	10 10	10	1-1/4	3
transport	140	28	490,491	625	B 5.6	B 6.6	15	10	10	10	1-1/2	3
with	160	29	490,491	650	B 5.8	B 7.0	15	15	10	10	1-1/2	3
excess	165	30	490,491	670	B 6.0	5 1.0	15	15	15	10	1-1/2	3
flow	165	30	690,691	400	B 4.4	B 5.2	15	15	10	10	1-1/2	3
valves of	170	31	490,491	695	B 6.2	B 7.4	15	15	15	10	1-1/2	3
adequate	173	31	690,691	420	B 4.6	B 5.6	15	15	10	10	1-1/2	3
capacity	181	32	490,491	740	B 6.6	B 8.0	15	15	15	15	1-1/2	3
	180	32	690,691	440	B 4.8	B 5.8	15	15	10	10	1-1/2	3
	188	34	690,691	455	B 5.0	B 6.0	20	15	10	10	1-1/2	3
	195	35	690,691	475	B 5.2	B 6.2	20	15	10	10	1-1/2	3
	203	36 38	690,691	495 510	B 5.4 B 5.6	B 6.4 B 6.8	20 20	15 15	15 15	10 10	1-1/2	3
			690,691									
	218 226	39 41	690,691 690,691	530 550	B 5.8 B 6.0	B 7.0 A 7.0	20 20	15 15	15 15	15 15	1-1/2	4
Unloading	233	41	690,691	565	B 6.2	B 7.4	20	15	15	15	2	4
large	240	43	690,691	585	B 6.4	A 7.4	20	20	15	15	2	4
tank	248	45	690,691	605	B 6.6	B 8.0	20	20	15	15	2	4
cars,	255	45	690,691	620	B 6.8		25	20	15	15	2	4
multiple	263	47	690,691	640	B 7.0	A 8.2	25	20	15	15	2	4
vessels,	278	48	690,691	675	B 7.4	B 8.6	25	20	15	15	2	4
barges or	301	54	690,691	730	B 8.0	B 9.4	25	20	20	15	2	4
terminals	323	58	690,691	785	B 8.6		30	25	20	20	2	4
	338	60	690,691	820	TB 9.0	A 10.6	30	25	20	20	2	4
	459	82	D891	580	5V 7.1	5V 8.5	40	30	30	30	3	6
	633	113	D891	800	5V 9.75	5V 11.8		40	40	30	3	6

¹ The capacities shown are based on 70°F, but will vary depending upon piping, fittings used, product being transferred and temperature. The factory can supply a detailed computer analysis if required. ³ The piping sizes shown are considered minimum. If the length exceeds 100 *ft*, use the next larger size.

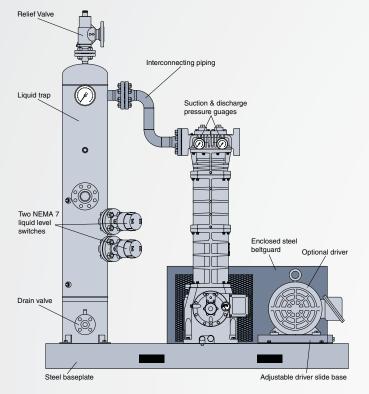
² Driver sheaves: 91 - 2 belts; 290,291,490,491 - 3 belts; 690,691 - 4 belts.

Consult factory for compressors with higher flows.

Standard Compressor Packages



-107A mounting shown above.



-109F mounting shown above.

Standard 107 Items

- Steel baseplate
- V-belt drive
- Adjustable driver side base
- · Enclosed steel guard
- Suction and discharge pressure gauges

107 Mounting

• Mechanical liquid trap with ball float

107A Mounting

• Automatic liquid trap with one NEMA 7 liquid level switch

107B Mounting

• Automatic liquid trap with two NEMA 7 liquid level switches

107F Mounting

• 107A or 107B with 300# ANSI flanged components and connections

Standard 109 Items

- Steel baseplate
- V-belt drive
- Non-lube 4-way valve
- Interconnecting
- Adjustable driver side base • Enclosed steel guard
- Suction and discharge pressure gauges
- **109 Mounting**
 - Mechanical liquid trap with ball float

109A Mounting

• Automatic liquid trap with one NEMA 7 liquid level switch

109B Mounting

• Automatic liquid trap with two NEMA 7 liquid level switches

109F Mounting

• 109A or 109B with 300# ANSI flanged components and connections

- 40 Micron strainer
- Non-lube 4-way valve
- Interconnecting piping
- Liquid trap as specified below

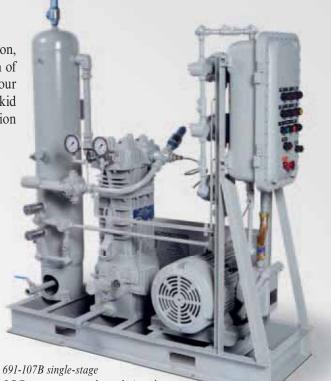
- piping • Liquid trap as
- specified below
- 40 Micron strainer

Custom Engineered Compressor Packages

Custom engineered packages...

When you cannot fit one of Corken's standard mountings into your application, we will customize one for you. Most custom packages are a modification of our standard mountings; however, if your needs do not fit within one of our custom packages, we can start from scratch and build you a mounting or skid from the floor up. Send in your specifications and one of our application engineers will help you design a package that fits your needs.





691-107B single-stage LPG compressor package designed for liquefied gas transfer and vapor recovery applications.

Above: D891-109F single-stage compressor package designed for a liquefied gas transfer application.

Right: HG602CE-109C two-stage compressor package designed for LPG sphere evacuation. This package can operate in singlestage and two-stage mode for deep evacuation. This package can also be used for propylene and other products.



LPG Accessories Bypass Valves

B166B (3/4", 1") Automatic Dual-Purpose Bypass Valve

Typical Application: On all cylinder filling pumps as well as aerosol propellant feed pumps.

A combination bypass and priming valve specifically designed for small cylinderfilling type pumps, especially of the regenerative turbine type, such as the Corken Coro-Flo[®] pump series. The patented vapor elimination system keeps liquefied gas pumps primed to increase system reliability and decrease pump and seal wear. The Bl66B is a smooth operating bypass with moderate pressure build-up.

ZV200 (2") Bypass Valve

Typical Applications: Used for both truck and stationary applications for loading and unloading.

A low-pressure build-up bypass valve designed for applications requiring protection for positive displacement pumps. Specifically designed for protecting pumps with capacities up to 250 gpm (56.8 m³/hr). The continuous internal bleed will assist in the operation of systems with "air" or "electric" operated internal valves.



B177 (2", 2-1/2") Differential Bypass Valve

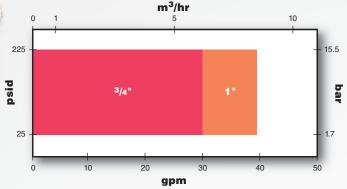
Typical Application: In liquefied gas bulk-plant installations for loading and unloading pumps.

A low-pressure build-up bypass valve specifically designed for applications requiring protection for positive displacement pumps in the 50 to 350 gpm (11.4 to 79.5 m³/hr) range. It can also be used as a differential back-pressure valve to assure adequate pressure on meters, etc. To properly function, this valve requires a pressure sensing line from the storage tank.

Creations	Model							
Specifications	B166B	ZV200	B177					
Inlet	3/4", 1"	2" (standard)	2", 2-1/2"					
Outlet	3/4", 1"	2" (standard)	2", 2-1/2"					
Slip-on flange option	No	Yes	2", 2-1/2"					
Differential pressure range psi (bar)	25–225 (1.7–15.5)	41–150 (2.8–10.3)	10–125 (0.7–8.6)					
Max working pressure		400 psig (27.6 bar g	1)					
0-ring material options	Buna-N (standard), Neoprene ^{®1} , PTFE, Viton ^{®1} , ethylene-propylene							

¹ Registered trademark of the DuPont Company.

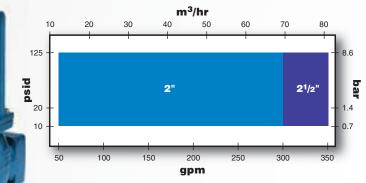
B166B Performance



ZV200 Performance

Differential Pressure psi (bar)	Maximum Rated Flow for Propane gpm (L/min)
70 (4.82)	180 (681)
120 (8.27)	250 (946)
120 (8.27)	250 (946)

B177 Performance



Other LPG Accessories

Flo-Chek valve

The Flo-Chek enables you to detect flow in the gas or liquid lines and prevents release of product from storage tank in the event of a hose failure. Flow-indicating and back-check valves feature all ductile iron construction and are available in 1-1/4" through 4", NPT or welded flanges with a 400 psig (27.6 bar) rating. Standard O-rings are Buna-N. PTFE, Viton[®], and Neoprene[®] are optional.¹

4-way non-lubricated valve

A convenient and simple means of reversing flow direction to a compressor. Made of ductile iron body, complete with handle and flow direction indicator (1" or 1-1/4" NPT and 2" — 300# ANSI flange, 500 psig rating [34.5 bar g]).

Low-oil-pressure switch

NEMA 7 pressure switch allows you to shut down the compressor if the oil pressure drops below 10 psi (0.69 bar), which protects the compressor from lack of lubrication. Available in 120 or 230 volt and can be used with magnetic starters up to NEMA Size 3.

Strainer

The right-angle design will minimize pressure drop and comes complete with ductile iron body with monel screen and steel plug. Available for liquid or vapor service (1-1/4" NPT 250 psig [17.2 bar] rating).

Pressure gauges

Stainless steel case-glycerine filled pressure gauges will mount on the compressor head or in the piping system and come with the following features:

- 0 to 400 psi (0 to 28 bar) range, 5 psi (0.34 bar) increment
- 2-1/2" dial with 1/4" NPT center back connection

Liquid traps

Standard liquid trap with mechanical float assembly and drain valve.

1-1/4" x 1-1/4" NPT or

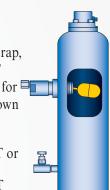
1-1/4" x 1-1/2" NPT



Automatic liquid trap, with one NEMA 7 liquid-level switch for compressor shutdown and drain valve.

1-1/4" x 1-1/4" NPT or

1-1/4" x 1-1/2" NPT



ASME code-stamped automatic liquid trap with two NEMA 7 liquid-level switches for compressor shutdown and alarm.

Equipped with relief valve, pressure gauge, demister pad, and drain valve.

1-1/2" x 1-1/2" NPT or

2" x 2" 300# ANSI flange.



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