

## The Screw compressor

# The Principle

Due to its pulsation free operating characteristic, a screw compressor is usually the best solution where impact sensitive material is being handled.

The screw compressor principle is well proven and involves two meshing and non-contacting helical screws. Low wear rates, as well as 100% oil free air, are the main advantage of this compressor type.

The compression chamber of a screw compressor does not require oil or grease for lubrication. All lubricated components, such as bearings, are outboard and are easily accessed.

Precision machining of the rotor profile is critical to reliable operation of this compressor type. Even the smallest defect can affect the balance of the machine and cause extensive wear, or even total failure. For this reason, Gardner Denver is dedicated to perfection of manufacture and robust rotor bearing support.



# The Advantage



Another innovation is our focus on light-weight construction, without compromise in terms of strength. The compact design of the Bulkline screw compressor complements the design culture of today's trucks perfectly.

There are a variety of possible drive methods: V-belts, hydraulic motor, electric motor or diesel engine. The Bulkline is very adaptable.

Day to day, the weight saving provided can give the operator a substantial benefit in terms of increased payload revenue.









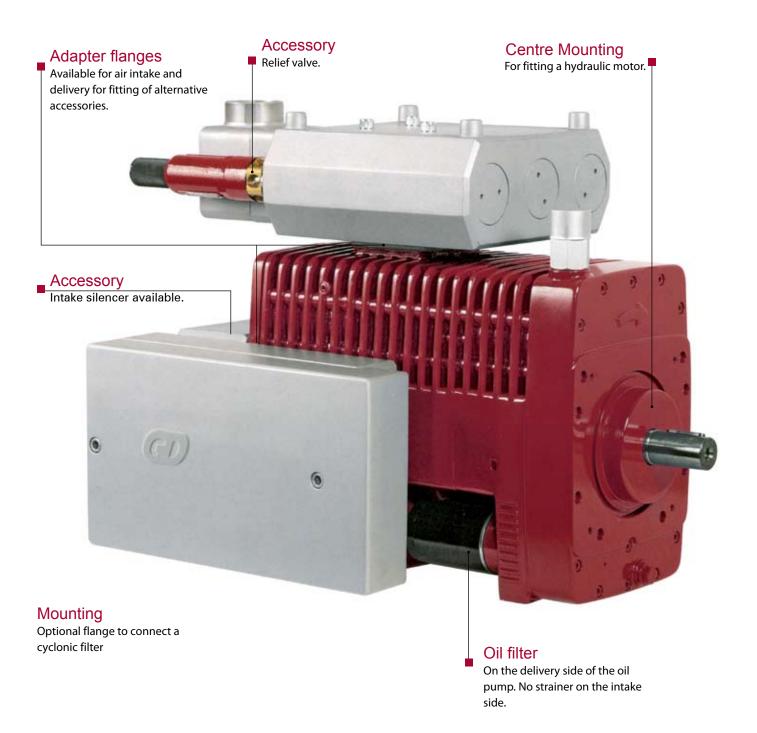






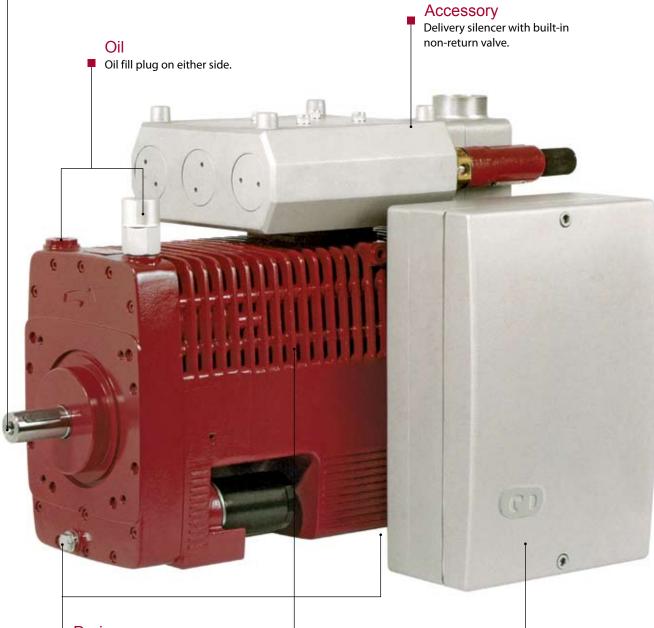


# Wittig Bulkline



## Drive

Suitable for clockwise or anti-clockwise p.t.o. rotation. by using the available mounting orientations and ancillaries..



## **Drains**

Two oil drain points to suit the mounted position of the compressor.

## Cooling

Cooling fins for efficient heat dissipation and strengthening of the housing.

## Accessory

Single (shown) or two stage intake filters available.



# Wittig Bulkline Light and Compact



## **Performance & Data**

The Gardner Denver Bulkline machines are screw compressors of the highest quality.

Simple - requiring little maintenance.

Powerful - across a wide speed range.

Robust - made from the best materials.

Economical - optimal operating cost profile.

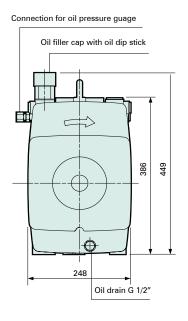
Screw compressor Bulkline 650				
Speed	rpm	2400	3000	3600
Free Air Flow	m³/h	400	520	630
Flow rate at 2 bar (g)	m³/h	365	464	580
Intake temperature	°C	20	20	20
Intake pressure (absolute)	bar	1.0	1.0	1.0
Max. operating pressure	bar(g)	2.5	2.5	2.5
Power requirement at the shaft at 2 bar	kW	23.0	28.5	34.5
Weight (bare machine)	kg		117	

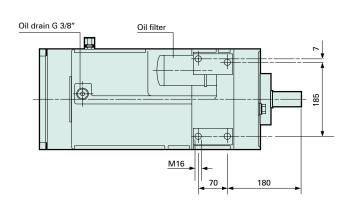
Screw compressor Bulkline 1000						
Speed	rpm	2400	3000	3600		
Free air flow	m³/h	640	825	1025		
Flow rate at 2 bar (g)	m³/h	565	740	945		
Intake temperature	°C	20	20	20		
Intake pressure (absolute)	bar	1.0	1.0	1.0		
Max. operating pressure	bar(g)	2.5	2.5	2.5		
Power requirement at the shaft at 2 bar	kW	32.5	45.5	54.0		
Weight (bare machine)	kg		127			



## **Dimensions**

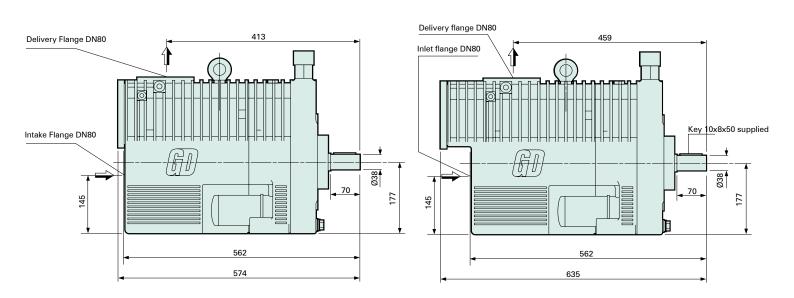
## Bulkline 650, Bulkline 1000





## **Bulkline 650**

## **Bulkline 1000**

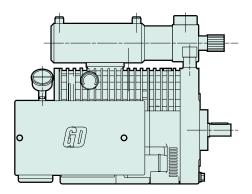


All dimensions in mm

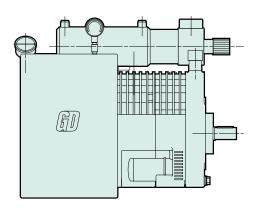


## **Accessories**

## **Bulkline 650 accessory options**



## Bulkline 650 and 1000 accessory options



#### **Accessories**

- · Discharge silencer
- Intake air filter (fixed as shown above or cyclonic filter and flexible hose)
- Mounting Bracket
- Aftercooler
- Relief Valve
- · Manometer (included as standard)

## **Applications**

- Installation on bulk tankers for discharge of flour, sugar, cereal grains, feedstuff, cement, gypsum, lime, sand, ash, clay ash, granular material, chemical substances and pellets
- Suitable for stationary installations

## **Drive**

- By the truck engine via p.t.o.
- By V-belt The V-belt pulley is mounted on the free shaft end.
- By hydraulic motor
- By diesel engine or electric motor

## Cooling

By cooling fins

### Lubrication

 All bearing parts are supplied with oil via an integral oil pump

## **Mounting**

 Different mounting brackets are available for clockwise or anti-clockwise p.t.o. rotation



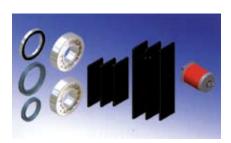
## **Gardner Denver Installation Consultation and Training**

Avoid user mistakes before they are made: This is our motto for cost saving and service readiness. Comprehensive consultation and competent user training have been traditional strengths of Gardner Denver Wittig.



#### **Gardner Denver Service**

Fastness, reliability and advisory competence are part of what we understand by quality. Human components such as commitment, readiness for service and sympathy are inalienable ingredients of quality.



## **Gardner Denver Original Parts**

The rotary compressor earns money when it is running not when it is out of service. This supposes that if a failure does occur it is repaired in next to no time. 24-hour service, a comprehensive parts stock and the right accessories for every machine are a "must" in this context.

**CONTACT YOUR GARDNER DENVER REPRESENTATIVE** 

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