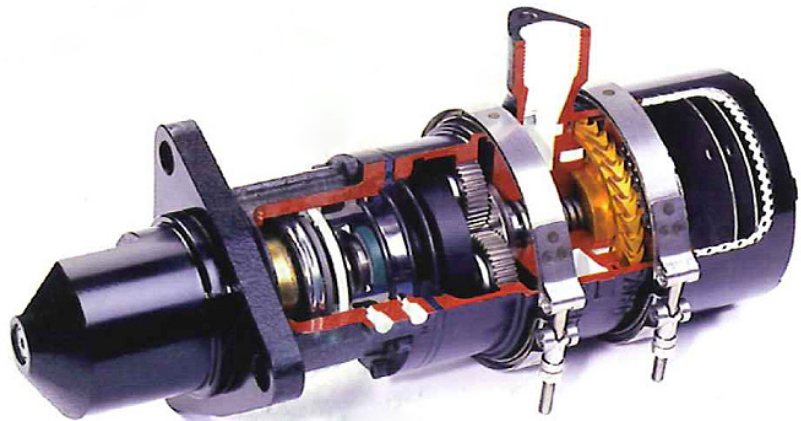


Benefits

Features and Benefits

- High Torque due to Turbin design
- Low air consumption due to precision Turbine
- Low Pressure Starting
- Eliminates Downtime
- Rugged Design
- Air or Gas operation
- Self balancing Turbine
- System Design in high Quality



TURBINE AIR STARTING SYSTEMS

**For all
DIESEL – GAS Engines
Low Pressure Starting – as little as 5 Bar**

Turbine Concept

Eliminates Downtime
Simple modular design
will Eliminate service
calls for Starter repair.



Fewer moving parts
Self Balancing, self
governing
The turbine wheel out
performance the
competition.

World Patented Inovative Technology

Designed to last
Certified Aluminium
Alloy and steel compo-
nents that hold up under
the worst environments

Eliminate oily discharge
Zero requirement for in
line lubrication-avoids
the mess of typical vane
starter units.

ASA-Series

Diesel Applications 3-14 Litres
Gas applications 6-28 Litres

Key Figures at 7 bar

Weight	7.5 kg	Power	10 HP
Torque	68 Nm	Consumption	8m ³ /min
RPM	4500	Noise level	100 Db



ASB-Series

Diesel Applications 7-20 Litres
Gas applications 14-40 Litres

Key Figures at 7 bar

Weight	10 kg	Power	26HP
Torque	156Nm	Consumption	10m ³ /min
RPM	4500	Noise level	100 Db



ASC-Series

Diesel Applications 14-70 Litres
Gas applications 28-140 Litres

Key Figures at 7 bar

Weight	16 kg	Power	26HP
Torque	176Nm	Consumption	10m ³ /min
RPM	4000	Noise level	100 Db



ASD-Series

Diesel Applications 25-130 Litres
Gas applications 50-260 Litres

Key Figures at 7 bar

Weight	17.5kg	Power	35HP
Torque	934Nm	Consumption	23m ³ /min
RPM	3600	Noise level	108 Db



ASE-Series

Diesel Applications 50-250+ Litres
Gas applications 100-500+ Litres

Key Figures at 7 bar

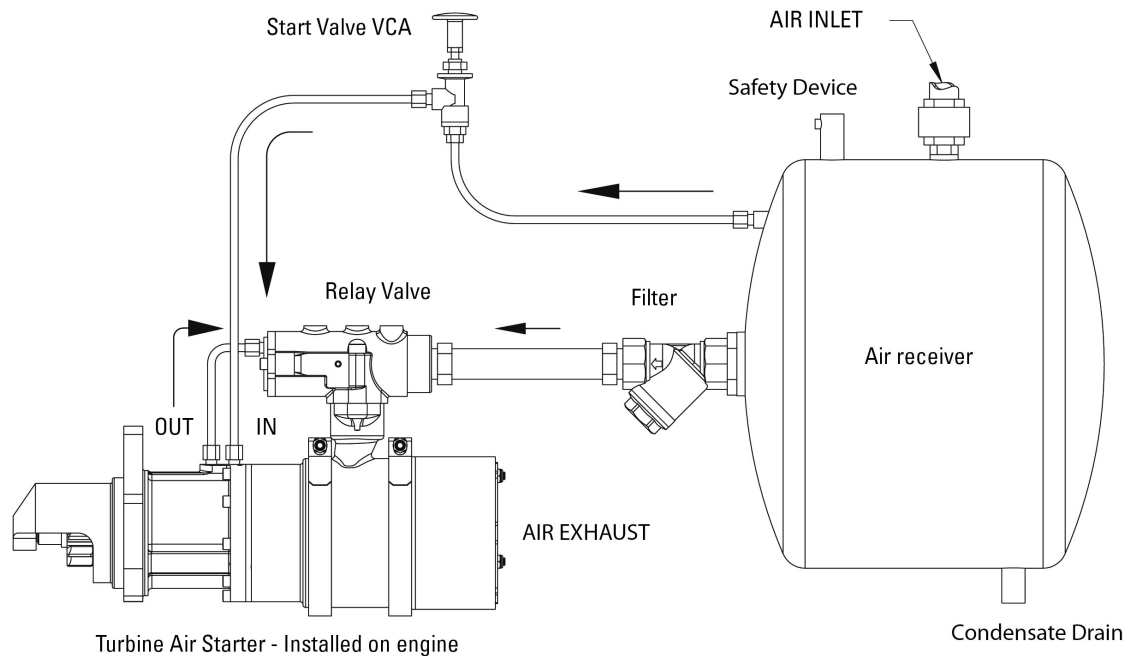
Weight	20kg	Power	60HP
Torque	1179 Nm	Consumption	31m ³ /min
RPM	4600	Noise level	108 Db



Special Products



Air Starter System



- **Pneumatic Turbine Starter**, located on engine
- **Air Receiver**, operating medium storage, drainage
- **Overpressure Safety Device**, acc. specific requirements
- **Relay Valve**, normally closed, pilot operated
- **Pressure Regulating Valve**, high flow type
- **Inlet Filter** (cleaner & water separator)
- **Start control valve** (manual, electric, pneumatic)
- **Instrumentation** (pressure gauge, switch, transmitter)
- **Pressure generation** (compressor, pump, booster)

Local Distributor / Partner:

PCL USA

www.pcl-usa.com



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