



APPLIED COMPRESSION SYSTEMS

"Complete Compressor Packaging Solutions"



**VECTOR 1000G MEDIUM PRESSURE
GAS COMPRESSOR PACKAGES**

APPLICATIONS:

- Well-head Compression
- Gas Injection
- Gas Lift
- Nitrogen Boosting
- Casing Gas Compression
- Coil Testing
- Pipeline Boosting
- Gas Accumulator Charging
- Fuel Gas Boosting



Vector 1000G Series medium pressure gas compressors are designed and built to service inert and sweet gas applications where pressures from 250 – 1000 PSIG are required.

Our modular design makes it possible for us to find the optimum solution for each specific case, both from a technical and economical point of view.

Standard packages are available in both simplex and duplex configurations. Prime movers include electric motor, natural gas engines, diesel/gasoline engines, hydraulic motors and power-take-offs.

These compressor packages are available as a simple skid-mounted unit or housed in a weatherproof enclosure or walk-in style building for cold climate locations.

These packages are designed and fabricated here in North America ensuring compliance with local code requirements including UL, CSA, ASME and OSHA.

Each compressor package is completely assembled and tested under load to make sure it leaves our plant in perfect operating condition.

Vector 1000G compressors are designed to give more gas per horsepower, with minimum maintenance and to operate quietly and reliably year in and year out.



VECTOR 1000G SERIES GAS COMPRESSORS OFFER UNMATCHED PERFORMANCE AND LONG-TERM VALUE ... THE LOGICAL CHOICE WHEN THERE'S NO TIME FOR DOWNTIME

DURABLE CAST IRON CONSTRUCTION – provides greater frame rigidity and reduced noise level. 100% cast iron construction for the greatest frame strength and longest life.

LOW ROTATIONAL SPEEDS – result in reduced valve cycles, increased ring and bearing life, and lower noise levels.

CYLINDERS – individual solid cast iron cylinders are bolted to the crankcase rather than integrally cast to the crankcase and can be replaced if damaged. They are precision honed to reduce oil carryover and have radial cooling fins to efficiently remove the heat of compression.

BALANCED V-TYPE CYLINDER ARRANGEMENT – offers improved cylinder and valve cooling and smoother operation.

ONE-PIECE CONNECTING RODS – overhung crankshaft design, makes possible solid-end connecting rods. There are no connecting rod caps, bolts and nuts to come loose, they never need adjustment or tightening and there is no possibility that the rod cap bolts can be over torqued.

UNIQUE OVERHUNG CRANKSHAFT DESIGN – Vector's unique overhung crankshaft is fully supported on the flywheel end by two heavy-duty ball bearings running on a replaceable crank pin bushing. If a bearing fails, the crankshaft is not damaged. A crankcase cover plate on the non-drive end can be quickly removed to enable easy internal inspection.



NON-ROTATING CRANKSHAFT JOURNAL SLEEVE – the crankshaft throw doesn't have any wearing area, rather all wear is on the precision ground and hardened journal sleeve that is easily replaced in the field.

OIL FILLER PLUG IS LOCATED AT THE SAME ELEVATION AS THE REQUIRED OIL LEVEL – rather than high on the crankcase. This prevents accidental overfilling of the compressor, which results in excessive oil carryover into the piping system.

INLET AND DISCHARGE PIPING IS CONNECTED TO THE CYLINDER, NOT THE CYLINDER HEAD – Inlet-discharge connections are made on the cylinders, not the cylinder head. This configuration permits very easy valve inspection, because piping does not have to be removed to access the valves.

FULL RANGE OF ELECTRICAL CLASSIFICATIONS – Vector compressor packages are available for unclassified, Class 1 – Division 2 and Class 1 – Division 1 explosion proof areas.

ELECTRIC MOTORS – are WEG brand Severe Duty, Premium Efficiency cast iron frame, TEFC electric motors with a 1.25 service factor. Inverter duty certified for 20:1 CT and 1000:1 VT

ENGINEERED FOR MAXIMUM SAFETY – All packages are manufactured to ASME code as well as all provincial/state electrical code requirements. Pressure vessels are hydrostatically tested for complete user safety and equipped with approved ASME code safety relief valves.

FULLY PACKAGED – Every compressor package is completely assembled and tested under load to make sure it leaves our plant in perfect operating condition.

CADD DESIGN – We utilize a Computer Aided Design and Drafting (CADD) system, so we can provide you with a detailed look at your compressor package before it's manufactured.

DETAILED PARTS & OPERATING MANUALS – Each compressor package manufactured by us comes with a set of in-depth parts and operating manuals, so you can clearly understand the operation and maintenance requirements of the equipment.

QUALITY CONTROL DOCUMENTATION – On completion, you are provided with detailed quality control documentation including material test reports (MTRs), hydro-test reports, x-ray certificates, welder qualifications, weld mapping, ASME U1A forms etc., ensuring safe equipment operation for years to come

SHIPPING LOGISTICS – Whether you need a package to be shipped within Canada, across North America or overseas we can assist with final shipping arrangements to your site.

PRODUCT RANGE

- 2 to 20 horsepower
- Suction pressures to 3 PSIG
- Discharge pressures to 1000 PSIG



MODEL	HP RANGE	MAX PRESSURE (PSIG)	BORE	STROKE	NUMBER OF STAGES
V1-231G	2 – 5	500	3" & 1.25"	2.75"	2
V1-7T2	7.5 – 15	500	5" & 2"	4"	2
V1-15T2G	10 – 20	1000	5.5" & 3" & 1.63"	4"	3



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