



## RCP Series Reciprocating Compressors

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### **Compressor Pump**

All RCP Series compressors come with solid cast iron cylinders for strength. Aluminum heads, coolers and crankcases allow for superior heat dissipation. Industrial grade connecting rods have cast splash pins and replaceable automotive style insert bearings. The cast iron crankshaft along with balanced pistons and oversized main bearings guarantees smooth operation. RCP compressors utilize high efficient stainless steel reed or ring valves on all models. Oil level and oil drain are clearly visible and easy to access.

### **Air Receiver**

Air receivers are ASME and CRN certified.

### **Electric Motors**

Single phase available from 2 to 7.5HP and three phase available from 5 to 10HP. Available voltage: 208-230V single phase and 208-230/460V three phase. RCP compressors use ODP motors.

### **Gasoline Engines**

Current offering includes engines from the following manufacturers: Briggs, Honda, Kohler, and Robin(Subaru). 9 – 13HP engines come standard with electric and recoil start and engine oil protection. 11 and 13HP Honda models come with charging system.

### **Magnetic Starters**

For all electric two stage compressors (Except RCP-561VNS and RCP581VNS). Magnetic starters provide the thermal protection for the electric motors and come with Nema 1 enclosures.

### **Air Receivers**

All air receivers are ASME/CRN certified.

## **CONTROLS**

### **Pressure Switch**

Electric models are equipped with Start-Stop pressure switch control, based on tank pressure (psi). Single stage compressors are set 100 (on) to 130 (off); Two Stage VNS models 120 (on) to 150 (off) and the remaining Two Stage models 145 (on) to 175 (off).

### **Pilot Valve**

Gasoline engine driven compressors operate in constant run mode. The pilot valve, working in conjunction with an idle control device will increase the speed of the engine and increase the pressure in the tank, or decrease the engine speed and vent the produced air to atmosphere.

## **SAFETY DEVICES**

### **Safety Valve**

Exhausts air if compressor runs over maximum working pressure, protecting the compressor and down stream equipment from potential damage

### **Non-Return Valve**

The non-return or check valve keeps the compressed air in the receiver and not allowing it to flow back through to the compressor pump.

### **Motor Thermal Overload**

Thermal overloads are fitted to motors on all single stage electric, plus models RCP-561VNS and RCP-581VNS to prevent burn outs and expensive rewinds.