



Replacing the Inlet Valve of a Screw Air Compressor

What is a rotary screw air compressor inlet valve?

The inlet valve is one of the most important and complicated parts of a rotary screw air compressor. No part of the compressor so uniquely differentiates the various manufacturers. Each has its own proprietary design for the part because it has a major impact on the performance of your compressor.

How does a compressor inlet valve work?

Here's how that works in your compressor. The inlet valve is the gatekeeper for your compressor. It allows air into the compression chamber, opening fully when it's in the load portion of the cycle and closing in the unload part. It has two major functions: It regulates the amount of air entering the compression cycle.

What is an air inlet valve?

Air inlet valve is also commonly known as the 'Intake valve' which is typically assembled on the air end's intake. The air inlet valve of a conventional fixed speed screw air compressor controls the air intake into the compressor.

How many valves does a screw air compressor have?

While a human heart has tricuspid, pulmonary, mitral, and aortic valves, a screw air compressor has four critical valves namely air inlet, minimum pressure, blow down, and safety valves. Air inlet valve is also commonly known as the 'Intake valve' which is typically assembled on the air end's intake.

Do KRSP air compressors have a variable inlet valve?

Most of our premium KRSP units and most of our KRSP2 rotary screw air compressors have an adjustable inlet valve. Kaishan's KRSP premium rotary screw compressor is one of the few in the industry with a variable inlet valve.

When should a compressor inlet valve be set?

The adjustable inlet valve should be set to operate within the appropriate parameters when a new compressor is installed. Generally, the pressure parameters are set up at the factory, but the installation team should check the pressure to make sure the valve did not go out of adjustment during shipping. That can happen.

Because it's such a critical part of your rotary screw air compressor, you'll want to inspect your inlet valve at least once a year, ...

The inlet valves very often have a big main valve (for opening / closing) and 1 or 2 auxiliary valves (pilot valves) which are also used for blow-down, etc. First, open and clean these pilot valves.

Over the years, I repaired and troubleshooted hundreds of rotary screw air compressors. In these



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troubleshooting "basics" series I explain the most ...

Rebuilds include new gaskets, bearings, O-rings, repair of rotors, and seals, metalizing the shafts, inlet valve rebuild, and end plate repair if needed. We can also service the drive motor, "clean ...

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If you need any help regarding the Compressor air intake valve, then you can reach out to us. We supply the best quality screw air compressor accessories ...

It's usually possible to complete the task of replacing the intake valve on a screw air compressor with just a few simple tools. An overview of how to change the ...

(1) Should first confirm that the system piping, cylinder, valve nest has been thoroughly cleaned. (2) Valve gasket must be replaced, the valve cover bolts must be tightened evenly to prevent ...



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