



How Does a Venturi Chemical Injector Work?

A venturi chemical injector or jet pump has a high pressure zone before the primary orifice and a low pressure zone after the orifice. The increased fluid velocity entering the low pressure zone creating a small vacuum, allowing a chemical to be drawn into the flow. In other words, venturis work on the principle of differential pressure.

The pressure difference creates a vacuum at the suction port on the side of the device. So, the greater the difference in pressure, the greater the vacuum and, with that, the greater the volume of the chemical that it is able to suck up.

Venturis come in a number of different sizes. Size is determined not by the size of the pipeline into which it is installed, but rather by the pressure and flow rate of the water. Because of this, it is important to size the primary orifice to match the pump flow and pressure and the size of the final gun nozzle, which should be very much larger to allow the secondary pressure zone to be a lot lower than the primary one.

Hawk venturis come with an adjustable chemical needle valve, which cannot be calibrated, for where accuracy is not required. A fitting with a range of fixed metering orifices is available for accurate, non-variable addition of chemical.



Wife: I hate that beggar.

Husband: Why?

Wife: Stupid moron... I gave him food yesterday and today he gifted me a book "How to cook"

"Life is like a camera. Just focus on what's important, capture the good times, develop from the negatives, and if things don't turn out – take another shot."

Unknown

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Paper Trim Nozzles

These nozzles are available in a wide range of configurations. Options include single or dual orifice designs, material choices for body assemblies and orifices and strainers. Some of the benefits are:

- Precise, sharp, crisp edge trimming.
- Single orifice version can be used with most paper grades.
- Dual orifice version provides twin parallel solid stream sprays. Ideal for use with speciality or fine paper. Dual orifice version eliminates the need to use two nozzles in tandem, reduces backsplash and simplifies spray alignment.
- High Impact performance enables the nozzles to be placed further away from the target which reduces build-up on the nozzles and downtime for maintenance.
- Choice of orifice materials including synthetic ruby for long lasting, precise performance.



Another of Hawks Proudly Custom Designed Units

A customer who required removal of debris from structural steel without the need for working close to the structure commissioned a diesel powered, 80 l/min at 220bar, machine with two guns. A new type of unloader was incorporated into the design which allows for the use of multiple guns.

The machine uses a 4-cylinder Deutz type engine and the upper and lower chassis skids are separated by six anti-vibration rubber mounts.

The concept has been so well received that a second unit is about to be ordered with a further two to follow.

Hawk is getting more involved in specially designed custom machines.



Happy Holidays!

Both Durban and Johannesburg branches will be closing for the summer holidays from the 20th December to the 6th of January. For the week before the 20th and the week after the 6th there will be reduced workshop and sales staff who will be able to attend to customers' needs.

We wish all our clients a happy holiday and a prosperous New Year.

To unsubscribe to this newsletter or to receive an electronic version via email, please contact Pamela on (031) 274-8555 or email pam@hawkpumps.co.za