



it all starts with Steam

IF YOU WANT TO IMPROVE YOUR CONDITIONING PROCESS... IT ALL STARTS WITH STEAM

Getting your conditioning process right is essential if you want to produce a pellet with optimal quality, nutrition and safety –at an optimal price and capacity. With so many variables for compound feed manufacturer, making the right conditioning choices isn't easy. You need to consider retention time, mechanical pressure on the feed, the moisture content and raw materials. But first of all, you need the correct temperature: and that means good-quality, over-heated, dry steam...

Why is high-quality steam important?

Steam affects the quality and quantity of every part of the conditioning process. And unless you have a steam dosing unit that can consistently deliver over-heated dry steam to the conditioning system – and penetrate the core of the feed particles in the conditioner - you may end up with pellets that are too wet; not properly hygienized; and that cause bottlenecks and breakdowns in production. Which then loses you capacity - and money.

The bottom line: to get a high-quality product out of your conditioner you need to put high-quality steam into it.

Why dosing with over-heated dry steam?

For optimal conditioning, steam needs to be dosed into the conditioner at a temperature of 130-plus degrees C in an atmospheric environment measured on the dosing connection of the conditioner.

How can you achieve it?

You need a steam dosing that can consistently deliver these results (and beyond) – which is exactly what we have been doing at IVS Dosing Technology for the past 30 years.



Our steam dosing units can reach temperatures of up to **150 degrees C** at a **pressure of 2.2 bar**– which is virtually unheard of in the industry.



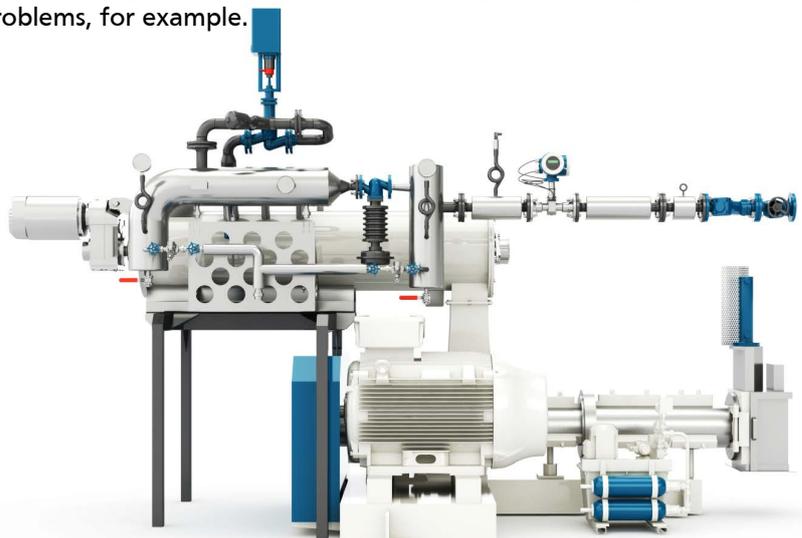
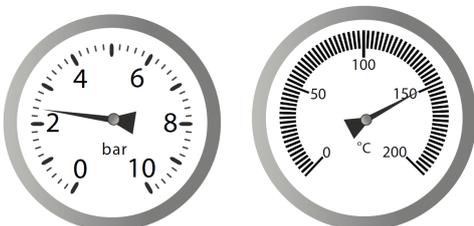
They come in **15 different sizes** (each process has its unique properties so it's essential to pre-dimension the correct steam dosing for optimal quality).



This is supported by **years of expertise**. For example, we can assist you with the positioning and installation of the steam dosing unit for optimal results (via a compact construction that works in harmony with the rest of the line).



We even **look beyond** the steam dosing unit, to the boiler and piping – identifying pressure and de-watering problems, for example.



IVS steam dosing unit mounted on an Almix AL200 expander with PTN conditioner

What do customers think?

Over the years, 1,000-plus IVS steam dosing units used successfully by feedmill and petfood customers worldwide. Just one of these customers is the German feed producer AgriV. It recently installed a second IVS steam line based on the excellent results achieved with the first.

"As a result of our work with IVS, we now have less product recalls due to improved pellet quality. Furthermore, the energy consumption during production has reduced, which has enabled us to increase our capacity." - Jan Grohn, Production Manager, Agri V

What next?

Are you getting the most from your conditioning process?

- Difficulty starting up the press in the morning.
- Blockage of the pellet press during start-up phase.
- Meal too cold.
- Pellets too wet (gumming up the press).
- Water entering the conditioner during standstill.
- Unexpected power spikes in the pellet press during production...

Do any of these issues sound familiar? If so, there is a good chance that IVS can help. We've spent many years understanding steam issues and solving its problems and we continue to invest in new technologies through our steam Expert Center. We're here to help you get the very most from your steam operations.

GET IN TOUCH

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And don't forget

It all starts with steam. But it doesn't end there. Steam is one of several key elements needed for successful conditioning. This is where we work closely with our sister Triott companies. If you have questions about the wider conditioning process; the different systems and set-ups available; and when to use them, please contact PTN (ptn.nl) or Almex (almex.nl)

IVS Dosing Technology is part of the Triott Group, a 110-year-old, family-run (privately held) business comprising complementary companies serving the global feed and food industry: Ottevanger (milling engineers); Inteqnion (process improvers); PTN (Pelleting Technology Netherlands); PCE (Pelleting Consumables Europe); Almex (extrusion technologies); IVS (dosing technology specialists) and TSC (Top Silo Constructions). Together they have the capability to provide all (or any) elements of a turnkey milling solution, from storage, handling, dosing, milling & mixing solution to pelleting extrusion and complete plant management.

