SOMATEC © Components for mech. engineering

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Embossing cylinder / riveting cylinder

- Preliminary data sheet -

Our embossing cylinder offers the following advantages:

- High impact power with low air consumption
- Low wear oft he stamping/riveting die, as the stamping forve acts in pulses
- The piston rod, which serves to hold the tool, is decoupled from the impact piston
- The workingpiece to be machined is fixed or clamped before the actual work process

Application and area of use:

Embossing, riveting, flanging, and punching thin sheet metal

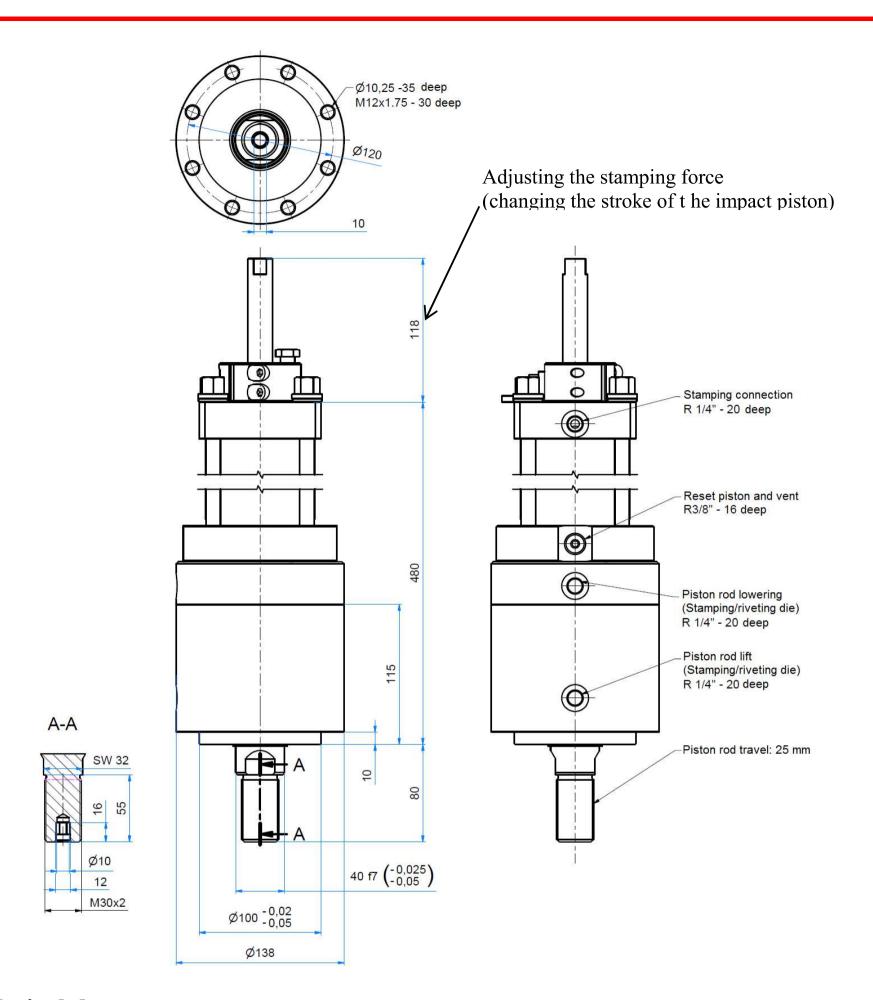
Design and functional description:

The stamping cylinder consits of a double-acting cylinder for fixing (clamping) the workpiece, an electromagnet which holds the striking piston until the preset pressure required for embossing is reached and a piston rod which serves to hold the embossing/riveting punch.

First, the piston rod is lowered onto the workpiece tob e machined. The cylinder chamber above the electromagnet is filled with pressure medium. Once the set working pressure is reached, the electromagnet is de-energized. The impact piston now suddenly detaches from the magnet and hits the piston rod, which in turn transfers the force to the workpiece to be machined.

After the stamping process, both the impact piston and the piston rod are pneumatically raised again, and the electromagnet is energized. The stamping/riveting cylinder is now back in its home position.





Technical data:

Design: Housing: anodized aluminum; cylinder barrel: steel;

Impact piston and pisten rod: tempered steel

Medium: filtered, dry, lubricated or non- lubricated compressed air

Connection: The cylinder is connected and ready for operation, only the

5/2-way valve is requried

Optional: a control unit required for operation is available

Operation pressure: 3 - 8 bar

Stamping force: Currently up to 100 kN

Weight: 22 kg

Electromagnet connection: Cable, open end

Electromagnet nominal voltage: 24 V/DC

Electromagnet power: 24 W