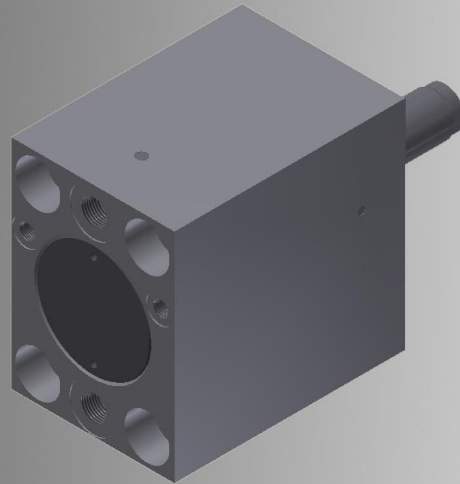


The new Hydropneu-Squeezer-System SQS



The new Hydropneu-Squeezer-System is optimally adapted to the needs of the die casting for this particular application.

The solidifying material is compressed through squeezing to obtain void-free components with a high load capacity. Consequently, this process must take place at a certain point and thus the mounting position is absolutely predetermined.

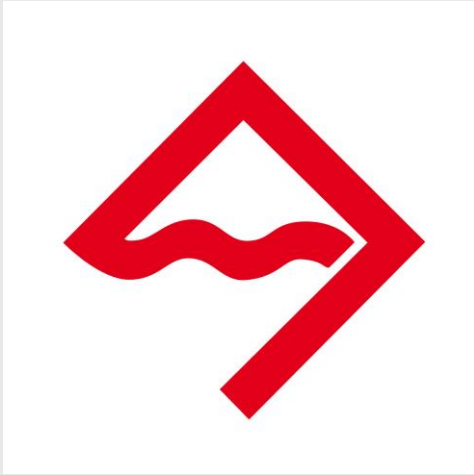
In general, the available mounting space is very tight. The high temperatures that often prevail at these positions of the die casting molds, when using an uncooled hydraulic cylinder, result in a very short life of the seals.

Due to the limited space and also the high temperatures it is usually hardly possible to evaluate the driven path, which in particular would be desirable for the casting results.



Precision in Motion

The new Hydropneu-Squeezer-System SQS



- ▶ Compact design
- ▶ High temperature resistance through active cooling
- ▶ evaluation of the cylinder position with electronic components not susceptible to interference in the central mold

In Detail:

Hydropneu specifically developed and optimized its new hydraulic squeezer system SQS for the requirements mentioned before. These cooled block cylinders have very effective cooling capabilities especially in the thermally highly stressed "head area" due to an externally induced coolant. In combination with this, we use seals that can withstand the high temperatures. All connections of the SQS-cylinder are placed on the cylinder base, either as standard threaded connectors, or in a more convenient way as flange connections with O-ring seals. This allows you to fit the cylinder directly into your form and to insert all the hydraulic and cooling liquids through pipes within the die-casting mold. An additional effort of piping and tubing is not necessary.

To determine the cylinder positions, the SQS offers you two versions. Both versions have no electrical and no mechanical switches on the actual cylinder in the "danger zone". The cylinder just gets connected like a normal cylinder. The separate Hydropneu-evaluation-unit is interposed in the supply pipes (distant from the heat) where the necessary space is available. This unit sends out an electrical switching signal, which together with the switching position of the valve tells you whether the required position has been reached. The version "Limit Switch" (SQN1) determines the reaching of the positions when the cylinder is "extended" and when it is "retracted". With the "Minimum Stroke" (SQN2) version, you get the information, whether the cylinder is fully retracted and if it moved the minimum stroke in the other direction that is necessary to ensure the quality of the casting. In this case, the cylinder will move until the solidifying material brings it to a halt.

www.casting-cylinder.com

