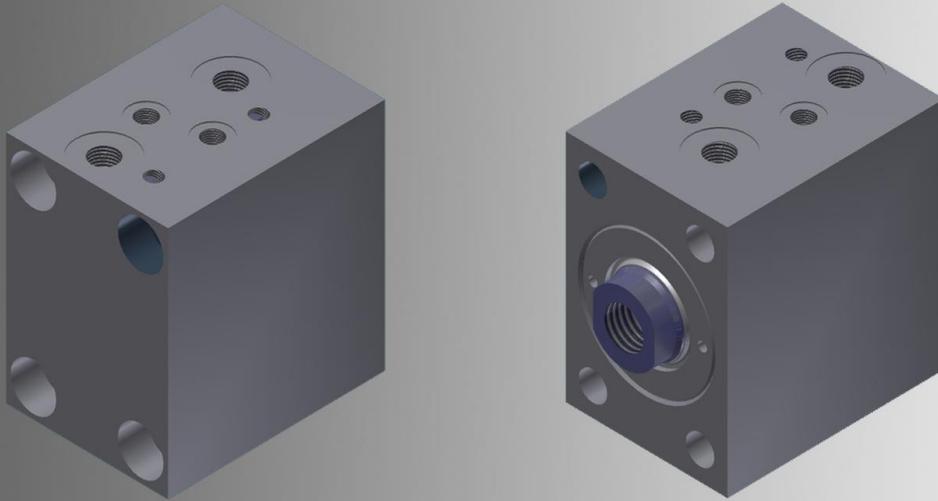


Hydraulic Block Cylinder with Integrated Water Cooling



Hydraulic cylinders are one of the most robust types of drive in mechanical engineering.

Important for a long, failure-free operation is the use within the approved environmental conditions.

The ambient temperature also has to be taken into account, which must not exceed 80 °C using a normal cylinder.

Non-compliance with these instructions can affect the seals and the hydraulic fluid, which in return can lead to exponential consequential damages.

At HYDROPNEU we offer special seals designed for higher temperatures, and we offer hydraulic cylinders with water or air cooling for extreme cases. The heat is actively dissipated in both versions, keeping the cylinder components within the optimal temperature range.

High loads are usually caused by the function of the cylinder, often in conjunction with confined space conditions. The cylinders must be installed in places that are hard to access where high temperatures prevail.

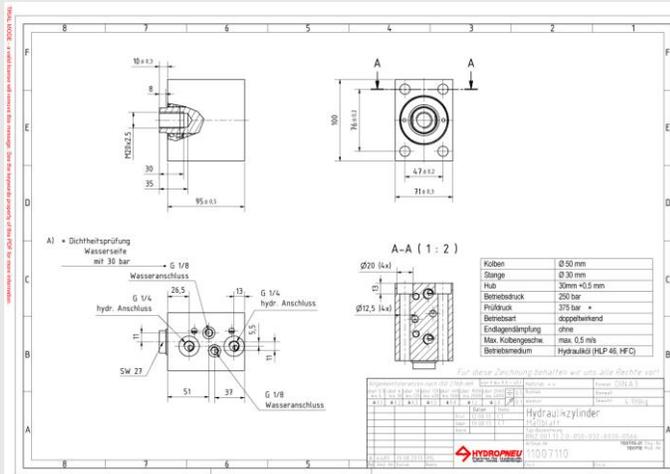
The solution can be the use of water-cooled block cylinders. These cylinders combine the extremely compact design of the block cylinders with the ability to dissipate damaging heat.

Hydropneu offers different cooling systems. The different cooling possibilities include the cooling of the housing, of the stuffing box, or even of the piston rod.

In case a problem occurs please contact us!



Hydraulic Block Cylinders with Integrated Water Cooling



- ▶ Dissipation of heat through water cooling
- ▶ Long service life at extreme temperatures
- ▶ Extremely compact

Example:

This hydraulic block cylinder is used in a die-casting mold, where the solidifying material is compressed locally through squeezing. Since this process must take place at a specific position, 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 service life of the seals.

Technical Data:

Hydraulic Cylinder: BNZ.001.13.2.0-050-032-0030-0566	
Piston-Ø:	50 mm
Piston Rod-Ø	32 mm
Stroke:	30 mm
Operating Pressure:	250 bar
Test Pressure:	375 bar
Operating Mode:	double-acting
End Position Cushioning:	none
Max. Piston Speed:	max. 0,5 m/s
Operating Fluid:	HFC
Special Features::	<ul style="list-style-type: none"> • Active cooling of the cylinder housing through water flow possible • External dimensions identical to standard block cylinder type 57

