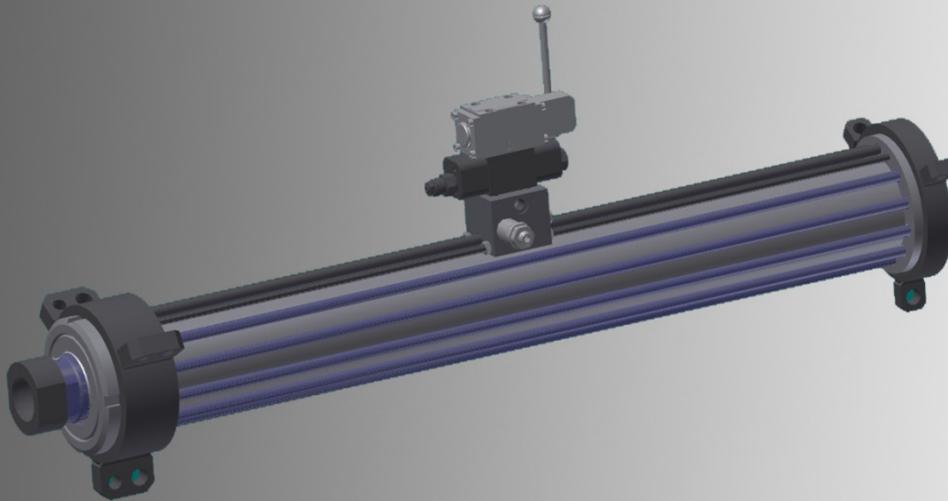


Hydraulic Lifting Cylinder with Locking Function



HYDROPNEU hydraulic cylinders are used in various industries and applications.

Depending on individual requirements, we design the ideal solution customized to the desired application together with our customer.

In this particular application, an international interested party from the aircraft industry approached us with his ideas about the function of his unit. Together we analyzed his wishes and the current situation and developed a solution that takes all his needs into consideration.

We are now building these hydraulic cylinders with internal hydraulic lock and some other special equipment. The cylinders are used to lift and fix aircrafts during maintenance.

The entire unit, in conjunction with our hydraulic cylinder, can be adapted to various external conditions and design patterns and can be used flexibly.

This is another example of how we develop solutions together with our customers.

The HYDROPNEU team will also be pleased to help you design your perfect solution!



Precision in Motion

3D-CAD-Data

of this cylinder can be found at www.hydropneu.de in our extensive CAD library for special cylinders



Hydraulic Lifting Cylinder with Locking Function



- ▶ High hydraulic safety
- ▶ Lock in any position
- ▶ Overload safe
- ▶ Variable and flexible to use
- ▶ Operate directly on the cylinder

Example:

This hydraulic cylinder is used to lift and safely hold passenger aircrafts during maintenance.

In its special design, it has a very high and high-pressure resistant inner tightness. In the event that the piston seal is worn or damaged, the special design of the hydraulic cylinder and the additional valves will nevertheless prevent the subsidence of the cylinder. The safety valve protects against overloads by limiting the maximum internal pressure.

Overall, we achieve a very high degree of security with this design.

Because the control valve is mounted directly on the cylinder, the lifting cylinder can be operated very flexibly with different pressure supplies. A length-adjustable piston rod allows the use with different aircraft models.

Technical Data:

Hydraulic Cylinder VZH.00S.0S.2.0-090-075-0800-0036	
Mounting Type:	Lateral fastening strap
Piston-Ø:	90 mm
Piston Rod-Ø:	75 mm
Piston Rod End:	Ball holder Ø 25 mm
Stroke:	800 mm
Operating Pressure:	250 bar
Test Pressure:	315 bar
Operating Mode:	Double-acting, hydraulically locked
End Position Cushioning:	none
Operating Fluid:	Hydraulic Oil HLP 46
Max. Piston Speed:	0,5 m/s
Max. Holding Force:	159 KN
Additional Features:	Piston rod adjustable in length by 200mm Connections centrally pooled Control valve installed directly on the cylinder Safety valve against overload