Product name : Holding magnet for diver 120x120x24 / N

PERFORMANCE PARAMETERS

Manufacturer	Enes Magnesy
Length	120 [mm]
Width	120 [mm]
Height	24 [mm]
overall height together with eye	70 [mm]
Magnet type	Neodymium
Maximal hoisting capacity	230 [kg]
Maximum working temperature	≤ 80 °[C]
Housing	stainless steel, AISI 304 / EN 1.4301, approved for contact with food
water-resistant	yes
Waterproof	class IP67
with easier detachment	yes
Handling mode	manual use
With the eye	yes
Weight	3.1 [kg]

The maximum slide force: above the 80 [kG].
The maximum allowed pull force by perpendicular acting of detaching force: approx. 230 [kG].

Holding magnets for divers are used for suspension loads on steel vertical walls e.g. ship's boards.
By dint of the hermetically closed in a housing made of acid-proof steel the holding magnet is seawater-proof. The 165 mm long side-lever (handle) make the separation from attracted steel element easy.

In the holding magnet sintered neodymium magnets (NdFeB) were used.
The maximal working temperature for holding magnets involving neodymium magnets is **80oC**.

The pull force given refers to hoisting capacity measured in optimal conditions, by using as a backing plate a sheet made of low-carbon steel,
30 [mm] thick, of smooth surface and with the force acting perpendicularly, in room temperature.

Notice: the pull force given should be treated as only a comparative value.
An actual pull force depends on the following factors:

- air gap (a distance) between holding magnet and an attracted element
- material, of which an attracted element is made (the higher carbon proportion in steel, the smaller pull force)
- surface of an attracted element (the smoother the surface, bigger the pull force)

- direction of acting of detaching force (the biggest pull force is obtained with perpendicular acting of detaching force)
- thickness of an attracted element (the element cannot be too thin, because in such case part of magnetic flux is not used for closing of a magnetic circuit)
- working temperature.

We generally recommend individual checking of the holding magnet in any specific working conditions.

TECHNICAL DRAWING