



Entrada/DIR-Portugal

Jubilee Clips (Abracadeiras)

Sizes, Uses, Sources ...

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Registo de Alterações

Versão	Autor	Data	Alterações
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1 Introduction

These clamps were first invented by L. Robinson & Co (UK) in 1921 and were originally named Jubilee Clips.



(foto : McMaster-Carr
<http://www.mcmaster.com/>)

Today there are many different commercial names for these Jubilee Clips

English	Portuguese	Spanish
Jubilee Clip	Abraçadeira	Mordaza
Worm-Drive Clamp		Pinza
Hose Clamp		Abrazadera
Screw Clamp		

They are used extensively in the diving industry on tanks, light canisters, scooters, and other dive gear.

2 Diameters

Outside diameters of popular gear choices.

Gear	Manufacturer	Outside Diameter (mm)	Source	Notes
S080	Luxfer	185	Luxfer	7¼"
S040	Luxfer	134	Luxfer	5¼"
S006	Luxfer	82	Luxfer	
Pro14 Canister	Halcyon	130	Measured	Approximate
Explorer 9 Canister	Halcyon	68	Measured	Approximate
Explorer 13,5 Canister	Halcyon			
Helios 10 Canister	Halcyon			
Gavin Scooter	GavinScooter	270	Measured	Approximate

3 Specifications

Several important characteristics :

- [Stainless Steel](#) – minimum grade = 304 (also referred to as 18/8 or A2). Make sure that both the strap and the assembly and screw are of this grade of SS. It is not uncommon to see the screw of a lower grade than the strap. Some manufacturers may for example use grade 302 screws; these have the same corrosion characteristics as the standard 304 but are harder – this is fine. When submersible for long times, opt for grade 316, which has increased resistance to chloride corrosion, compared to grade 304.
- Width : There doesn't appear to be a standard width, but the most common ones are still derived from imperial units : 5/16", ½" and 9/16". The 12-16mm (½"-9/16") width seem most popular.
- Length : The straps come in variable size ranges. Obviously a larger strap may be cut to fit a smaller diameter, but it would be wise to select the best fit to conserve financial and environment resources.

4 Sources

There are many manufacturers of Jubilee Clips, but it they may not always be easy to find high quality ones locally.

Here are some European manufacturers of Stainless Steel Jubilee Clips :

- JCS HI-TORQUE LTD, <http://www.jcshi-torque.co.uk/>
- Mikalor, <http://www.mikalor.com/>
- Damesa, <http://www.damesa.es>
- Panduit, <http://www.panduit.com>
- Breeze Industrial, <http://www.breezeclamps.com>
- Tyco Electronics, <http://www.tycoelectronics.com>
- ABA of America, <http://www.abaofamerica.com>

In Portugal, some sources are :

- www.rsportugal.com (Hi-Torque products)
- FA Chagas <http://www.fachagas.pt> (Mikalor products)
- Cafi, <http://www.cafi.pa-net.pt> (Mikalor products)

5 Care

- Wash after every dive (especially in salt water). Make sure to get to the screw and assembly area.
- Make sure to flush and smooth out the end of the strap, so that it doesn't stick too much out of the screw area, and does not have any sharp ends that may (will !) cut into your suit and seals.
- Beware of incompatible metal interfaces; example Stainless Steel strap on an aluminum bottle. Cover the strap with a nylon sleeve (tube).