



## TOOL BOX 032-STORZ COUPLINGS



Storz couplings

Storz is a type of hose coupling invented by Carl August Guido Storz in 1882 that connects using interlocking hooks and flanges. Amongst other uses, it has been widely employed on fire hoses in firefighting applications. It is the standard coupling on fire hoses in Portugal, Denmark, Germany, Austria, Switzerland, Sweden, the Netherlands, Israel, and Greece. It is also widely used in Australia.

Storz connectors are usually made of brass or aluminium.

It is sometimes referred to as a sexless coupling, because rather than having a male and a female end connected by screw threads, either identical end can be joined to any other end of the same diameter. This is also called hermaphroditic or two-way connection. To couple a Storz connection, the two opposing couplings are pressed together such that the hooks of each one are inserted into the slots in the flange of the other. Then they are rotated in opposite directions until they are tight, or latches engage. This creates a water-tight connection between the internal packing gaskets. To uncouple them, the latches are released and the connectors are turned in the opposite directions from coupling, and then separated when the hooks and slots are aligned.

Special wrenches are designed for assisting with use of Storz connectors.



The Marine technicians will be aware of these couplings as well as Nakajima, Machino, Nor, USA Pin, USA Slotter, and French Types.

## Storz Size Guide

This is a quick guide to help you identify the size of the Storz Connection of an existing adapter you may have. This guide does not include identifying thread sizes.

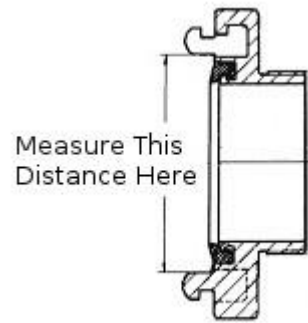
To identify your Storz Connection size you need to measure the distance between the lugs, the following image shows this.

You can match up your Storz Connection using the following table.



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Storz Size	Distance between Lugs
25	31mm
38	51mm
50	66mm
65	81mm
75	89mm
90	105mm
100	115mm
125	148mm
150	160mm



Why do you need to know about Storz: For some unexplained reason certain areas in SA are using them for their Hydrant Systems. This poses extra costs on the service companies in those regions, as a storz adaptor or adaptors will be requires to perform the static water pressure test.

All inspection / service procedure is the same as the Morris Coupling types including the minimum static pressure requirements of 3 bar or 300kpa.

Presented By:	Date	Signature
Name: _____	_____	_____

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