



Seaway Fluid Power

S.T.A.M.P.E.D

The Industry Standard Hydraulic Hose Selection System



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Hydraulic Hose Selection Process

When it comes to hose selection, S.T.A.M.P.E.D. has become the Industry standard tool for making sure you get the right hose for your application. STAMPED is an acronym for the seven assessment parameters of Size, Temperature, Application, Material/Media, Pressure, Ends, and Delivery. In the end, the safety and successful operation of your hose assembly is largely determined by the quality of its components. Adhering to the STAMPED guideline helps to ensure that you get the best quality [hydraulic hose assembly](#) for your needs.



The selection of an appropriately sized hose is based upon the pressure drop and the flow requirements of your application. It is the inside measurement or the inside diameter of the hose that is used for obtaining the correct size of a hose. At times, the outside width or the diameter of the hose may also be a consideration when dealing with confined spaces. The length of the hose must also be determined, inclusive of the fittings to be used.



Temperature comes next when selecting a hose. Both the temperature of the medium that the hose is carrying and the atmospheric temperature must be considered. Rubber will begin to break down upon nearing temperatures of 94oC or 200oF.



This is knowing how the hose will be utilized, where it will be installed and under what conditions. Will there be bends, unusual stress or exposure to chemicals that might affect the life of the hose?



Refers to the hydraulic materials passing through the hose. Consideration must also be given to the specific qualities of the media, such as how abrasive or caustic the media is.



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Consideration of the pressure that will be channeled through the [hydraulic system](#) is key to the selection of the right type of hose. The working pressure of the hose must be designed to meet or exceed the peak pressure of the application. Typically, hoses are made to a 3:1 or 4:1 burst to working pressure ratio.



The ends are the fittings connected to the hose ends. You need to consider the thread style, material, orientation and size of the fittings to ensure the proper hose/fitting connection.



Delivery refers to the requirements for testing, quality, quantity, certification, bundling and the delivery details for the order.

Getting the right hose for the right application is crucial. Just remember the S.T.A.M.P.E.D. hose selection process to keep you on the right track.