Technical Bulletin

Swagelok
Bangalore

Selecting a Hose Assembly? Remember S.T.A.M.P.E.D

Swagelok offers a wide variety of hoses with a large assortment of options and end connections. Because of the many products that are available, selecting the best hose for an application may appear to be a challenge. When ever you order hose from us, remember the acronym S.T.A.M.P.E.D which will guide you in proper hose selection and reduce chances of application failure. This easy to remember acronym stands for :

S – Size
T – Temperature
A – Application
M – Material
P – Pressure
E – End Connections
D – Delivery

Size

Size referes to ID (inside diameter), OD (outside diameter) and length (over all length of the assembly). The right size for the application should be determined based on flow requirements, pressure loss considerations , space constraints and available end connections. Swagelok offers hoses in nominal diameters of 1/8" to 2".

Temperature

Temperature refers to internal and external, minimum and maximum temperature of material conveyed and environmental conditions. Different hose materials operate best within different temperature ranges. Metal hose is the choice for temperatures from -200°C to 454°C. Fluoropolymer hose has a narrower range, from -53°C to 230°C. Nylon hose has an even narrower range, -40°C to 93°C.

Application

Application is the most important factor in selecting the right hose. It denotes the conditions of use - Where, how, conductivity, steam, configuration/routing, intermittent or continuous service, equipment type, unusual mechanical loads, abrasion, oil etc. Refer our technical bulletin on " System Variables to Consider While Selecting a Hose" for more info.

Material

It denotes the material being conveyed, type and concentration. Identify the system media and the environment to which the hose assembly will be exposed. This will help determine the materials of construction best suited to the application demands and whether the hose requires a static dissipative core.

Pressure

It refers to the pressure to which the assembly will be exposed. Identify the working pressure, pressure surges and vacuum pressure within and outside the hose assembly.

End Connections

Identify which type of end connection is most compatible with the system requirements. End connections differ with regard to materials of construction and pressure ratings.

Delivery

How fast is the hose required. Sometimes making a small change in your hose parameters can greatly improve delivery time.

Please talk to our Associate or call us for more info

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