

Corrugated Stainless Steel Metallic Hose

Application

The Stainless steel corrugated hose is especially designed to achieve several objectives in pipe work design. These include, absorption or vibration, operate under vacuum, handle temperature extremes, suppress rigid pipe noise transmitted, accommodate reciprocating and flexing movement, operate effectively under high pressures and adjust or correct for misalignment.

Composition

Stainless steel corrugated hose is a general purpose industrial hose and is available in different grades of stainless steel including 304, 316, 321 & Monel.

Corrugation Design

The corrugated hose is manufactured from a cylindrical, thin walled tube formed from rolled strip and welded at the seam. Impressed into this tube is a corrugated annular profile. Annular corrugation means each convolution is perpendicular to the centre line of the hose. This gives a distinct advantage of movement with each corrugation being relatively independent of movement from each other. When the corrugations are close spaced, the hose is referred to as 'closed pitch' hose. Conversely, when the corrugations are more widely spaced, the hose is referred to as 'open pitch'.

When needing greater flexibility Omega style hose is ideal. It has a higher flexing cycle life because of the increase in the number of convolutions per metre without thinning the wall of the hose. The corrugations have the tendency to spring back to their original position when the displacement forces are removed.

