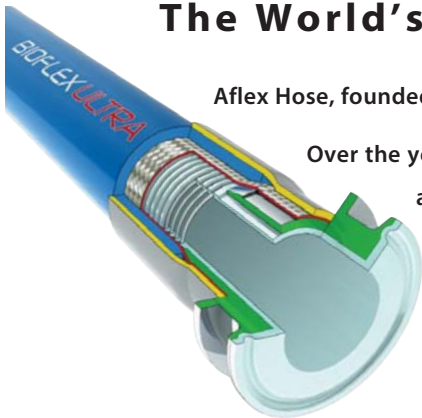


# Bioflex Ultra - The New Product Design from Aflex Hose

## The World's Leading Manufacturer of PTFE Flexible Hose

Aflex Hose, founded in 1973, pioneered the concept of PTFE lined flexible hose for the transfer of process fluids.

Over the years since then, hundreds of thousands of custom-built PTFE Lined hoses have been designed and manufactured by Aflex Hose to cope with the most difficult of operating conditions, and Aflex have continuously developed and expanded their product range having pioneered and introduced Antistatic hose, Polypropylene Braided hose and many other innovations in response to customer demands.



In 2001, Aflex fulfilled the most stringent demand yet. Customers, worldwide, had always asked for the ultimate PTFE lined flexible hose... one product which incorporates the advantages of both convoluted and smoothbore designs. A product which is sufficiently flexible, like convoluted, yet which retains the advantages offered by smoothbore, like fast flow rate and cleanability.

After years of painstaking research and development, Aflex launched such a hose ..... **BIOFLEX**.

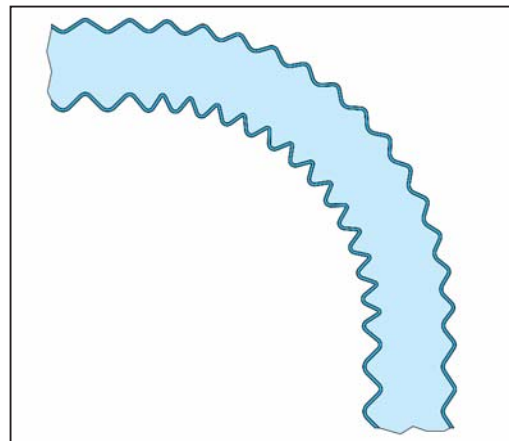
Bioflex is a smooth bore, highly flexible, PTFE lined hose. Its design overcomes the disadvantages of conventional smooth bore and convoluted PTFE flexible hose designs, dramatically improving on many of their individual technical performance parameters.

The key feature of Bioflex PTFE hose is the PTFE liner design, which comprises integral rib sections which support the tube against kinking, vacuum and pressure, and highly compressed web sections which give a smoothbore inner surface and excellent flexibility.

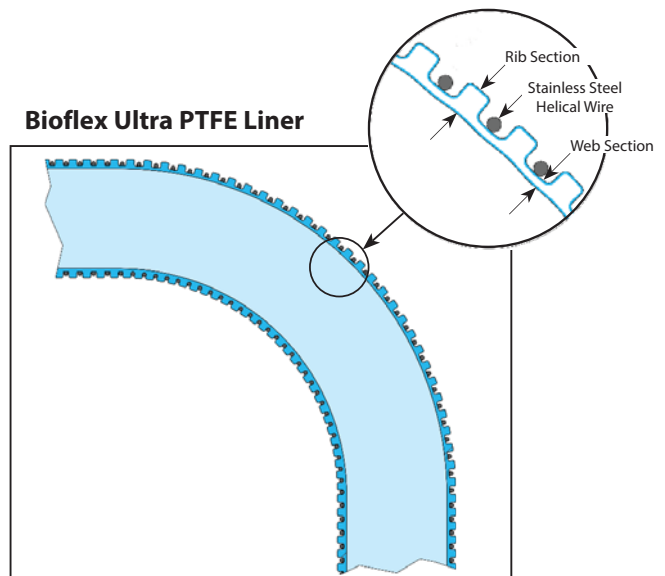
In 2013 in response to customer's requests for an even more flexible and kink resistant hose, Aflex re-designed the convolution profile of the Bioflex PTFE liner tube and introduced a high tensile, 316 stainless steel wire, helically wound in to the root of the convolutions. This wire provides greatly increased kink resistance by providing radial reinforcement to the tube, and axial reinforcement to the web section, preventing web section collapse when the tube is heavily flexed.

The actual bore size of the tube and hoses was also slightly increased to permit easier insertion of fittings. Hoses incorporating this PTFE liner tube design have been re-named as ..... **BIOFLEX ULTRA**.

### Conventional Convoluted PTFE Liner



### Bioflex Ultra PTFE Liner



**Note** - The new designs with the increased bores and the helical wire reinforcement only apply to the standard products. The  $\frac{3}{8}$ " size will remain the same as before, with nominal bore size and no helical wire reinforcement.