

**THE RELINK END FITTING DESIGN**  
**(Patent Pending)**

**- For Customer Self-Assembly and Re-Use**

**Introduction**

Aflex Hose have developed a revolutionary, new design of end fitting for their PTFE non-lined hose products which can be easily assembled by customers on site, using a simple hydraulic press. It is called the Relink End Fitting design.

The same hydraulic press can also be used to disassemble the end fitting, in order that the main components can be re-used.

The concept of re-usable self assembly end fittings is not new, and several designs have been available for many years, but they have never been successful. This is due to difficult and unreliable assembly methods, the high cost of components, and the lack of availability of a wide range of fitting designs. The new Relink End Fitting design overcomes these problems, and offers many other important technical advantages.

**Advantages of the Relink End Fitting System**

- Uses Standard Aflex End Fitting Inserts

It uses Aflex Standard, off-the-shelf end fitting inserts, including hygienic and non-hygienic inserts\*, ensuring ex. stock availability of different types of fittings, and significant price savings.

- Reliable Joint

Other self assembly, reusable fittings all include screwthreads, which can be over-tightened, or under-tightened, and often have low "blow-off" pressure ratings. Relink fittings always provide a positive joint which withstands 4 times the maximum working pressure of the hose.

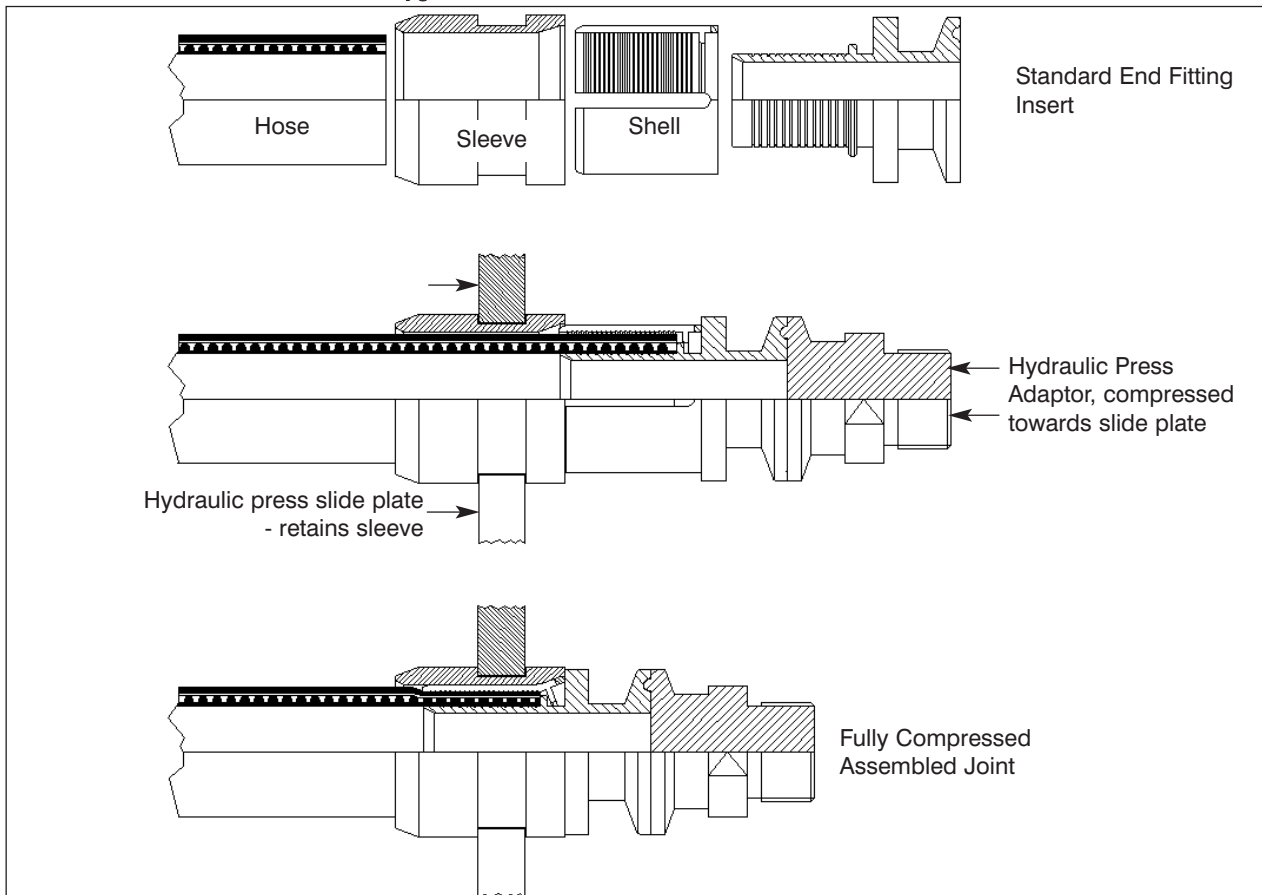
- Hygienic Design

The patented system applies radial pressure to the hose without any "screwing" of the end fitting, so a true hygienic joint can be made when used with Aflex hygienic inserts.

- Tamper-Proof

Other reusable/self assembly designs, can be accidentally loosened or disassembled manually or with a spanner after connection in the application. The Relink End Fitting can only be disassembled using the Relink Hydraulic Press, after disconnection from the application.

\* MWP are reduced when used non-hygienic inserts.



**The World's Leading Manufacturer of PTFE Flexible Hose.**

Spring Bank Industrial Estate, Watson Mill Lane, Sowerby Bridge, Halifax HX6 3BW

Telephone: +44 (0) 1422 317200 Fax: +44 (0) 1422 836000

Website: [www.aflex-hose.com](http://www.aflex-hose.com)



### Assembly

The components are assembled on to the hose and inserted using the Relink Hydraulic Press as shown.

The joint is then made by compressing the end fitting using the hydraulic press, which pushes the Shell into the Compression Sleeve. The Shell is slotted, to allow it to be collapsed inwards on to the hose when it is pushed into the sleeve. This compresses the hose radially inwards against the End Fitting Insert to form a pressure tight, leak proof joint.

The Shell is also independently locked on to the Insert by an internal shoulder, which is pressed in to engage an external shoulder on the Insert.

The joint can be disassembled by cutting the end fitting assembly away from the hose and pushing the end fitting out of the compression sleeve with the Relink extractor tool. Only the shell is not reusable.

### Specifications

The usage limitations are as given for the hoses in the relevant hose product literature on the Aflex Hose website. These must be reviewed together with this leaflet to determine suitability in the application. **Note:** for Pharmaline Hose the Maximum Working Pressure of the Relink fittings as stated in the table below.



### Hose Types and Sizes for Relink End Fittings

Compression Sleeves and shells in stainless steel are available for PHARMALINE and PHARMALEX Hose Types under the Part Numbers listed below.

Please note that the Relink fittings for Pharmaline hose are also usable with Pharmalex Hose.

Nominal Hose Size		Hose Bore		Pharmaline & Pharmalex		Maximum Working Pressure				Burst Pressure			
						Pharmaline		Pharmalex		Pharmaline		Pharmalex	
in	mm	in	mm	Relink Shell	Relink Sleeve	Psi	Bar	Psi	Bar	Psi	Bar	Psi	Bar
1/4"	6.40	0.270	6.80	40-220-04-04-03	40-221-04-04-02	536	37	101	7.0	2175	150	406	28
3/8"	9.50	0.375	9.50	40-220-06-06-03	40-221-06-06-02	464	32	87	6.0	1885	130	348	24
1/2"	12.70	0.500	12.70	40-220-08-08-03	40-221-08-08-02	435	30	79	5.5	1740	120	319	22
5/8"	16.00	0.625	16.01	40-220-10-10-03	40-221-10-10-02	304	21	72	5.0	1232	85	290	20
3/4"	19.00	0.750	19.00	40-220-12-12-03	40-221-12-12-02	290	20	58	4.0	1160	80	232	16
1"	25.40	1.000	25.40	40-220-16-16-03	40-221-16-16-02	232	16	50	3.5	928	64	203	14

**The World's Leading Manufacturer of PTFE Flexible Hose.**

Spring Bank Industrial Estate, Watson Mill Lane, Sowerby Bridge, Halifax HX6 3BW

Telephone: +44 (0) 1422 317200 Fax: +44 (0) 1422 836000

Website: [www.aflex-hose.com](http://www.aflex-hose.com)