Aflex Hose Ltd
World's Leading Manufacturer of PTFE Flexible Hose

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RELINK END FITTING DESIGN (Patent Pending)

End Fitting Attachment System, for Self-Assembly and Re-use for Pharmaline and Pharmalex Hose

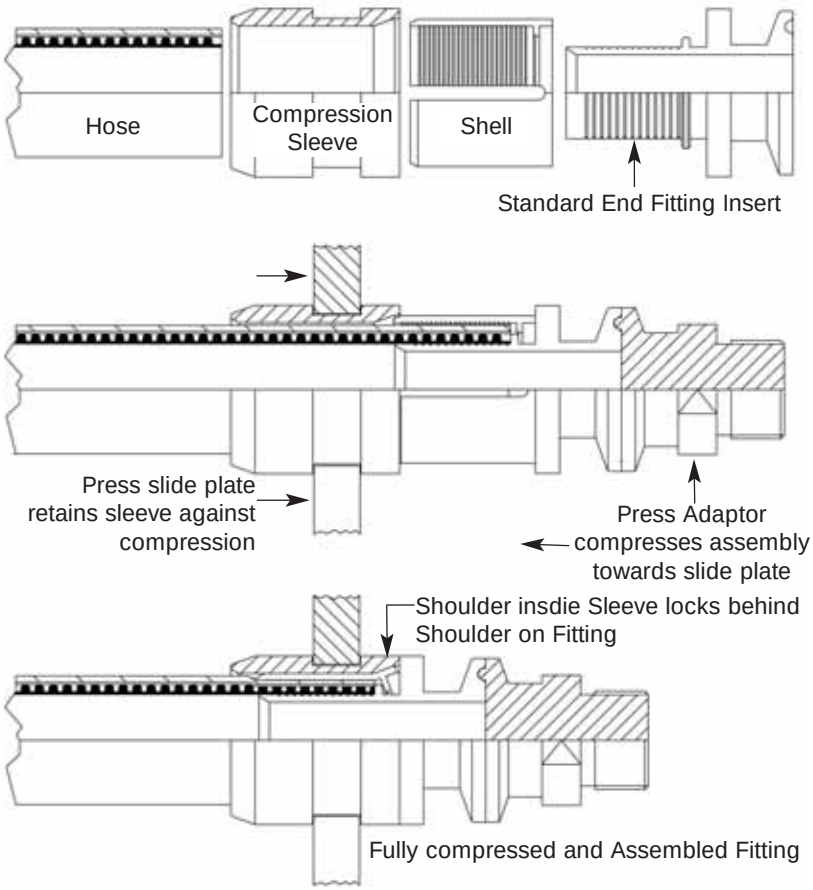
Introduction

Aflex Hose have developed a revolutionary new concept for end fitting attachment for their Pharmaline and Pharmalex hose products which can be easily assembled by customers on site, using a simple manually operated hydraulic press. It is called Relink.

The same 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 a complete success. 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.

Relink System



Advantages of the Relink End Fitting System

- Uses Standard Aflex End Fitting Inserts

  Relink can be used to assemble all the standard end fittings, including Sanitary Clamp (Triclover) fittings, ensuring ex. stock availability of many different types of fittings.

- 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 do not use screwthreads, and always provide a positive, pressure tight joint .

- Hygienic Design

  The patented system applies a non rotating, 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 end fittings.

- Tamper-Proof

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

Relink Sizes, Part Numbers and Pressure Ratings

Nominal Hose Size		Hose Bore		Pharmaline & Pharmalex Hose, Part Numbers for:		Maximum Working Pressure for Relink Hose Assemblies			
						Pharmaline		Pharmalex	
in	mm	in	mm	Relink Shell	Relink Sleeve	Psi	Bar	Psi	Bar
1/4"	6.40	0.270	6.80	40-220-04-04-03	40-221-04-04-02	230	16	101	7.0
3/8"	9.50	0.375	9.50	40-220-06-06-03	40-221-06-06-02	230	16	87	6.0
1/2"	12.70	0.500	12.70	40-220-08-08-03	40-221-08-08-02	230	16	79	5.5
5/8"	16.00	0.625	16.01	40-220-10-10-03	40-221-10-10-02	230	16	72	5.0
3/4"	19.00	0.750	19.00	40-220-12-12-03	40-221-12-12-02	230	16	58	4.0
1"	25.40	1.000	25.40	40-220-16-16-03	40-221-16-16-02	230	16	50	3.5

Note: Pharmaline and Pharmalex Hose assemblies with Relink fittings are not electrically continuous (not "EC"). Only Pharmaline Hose assemblies with crimped fittings are electrically continuous.

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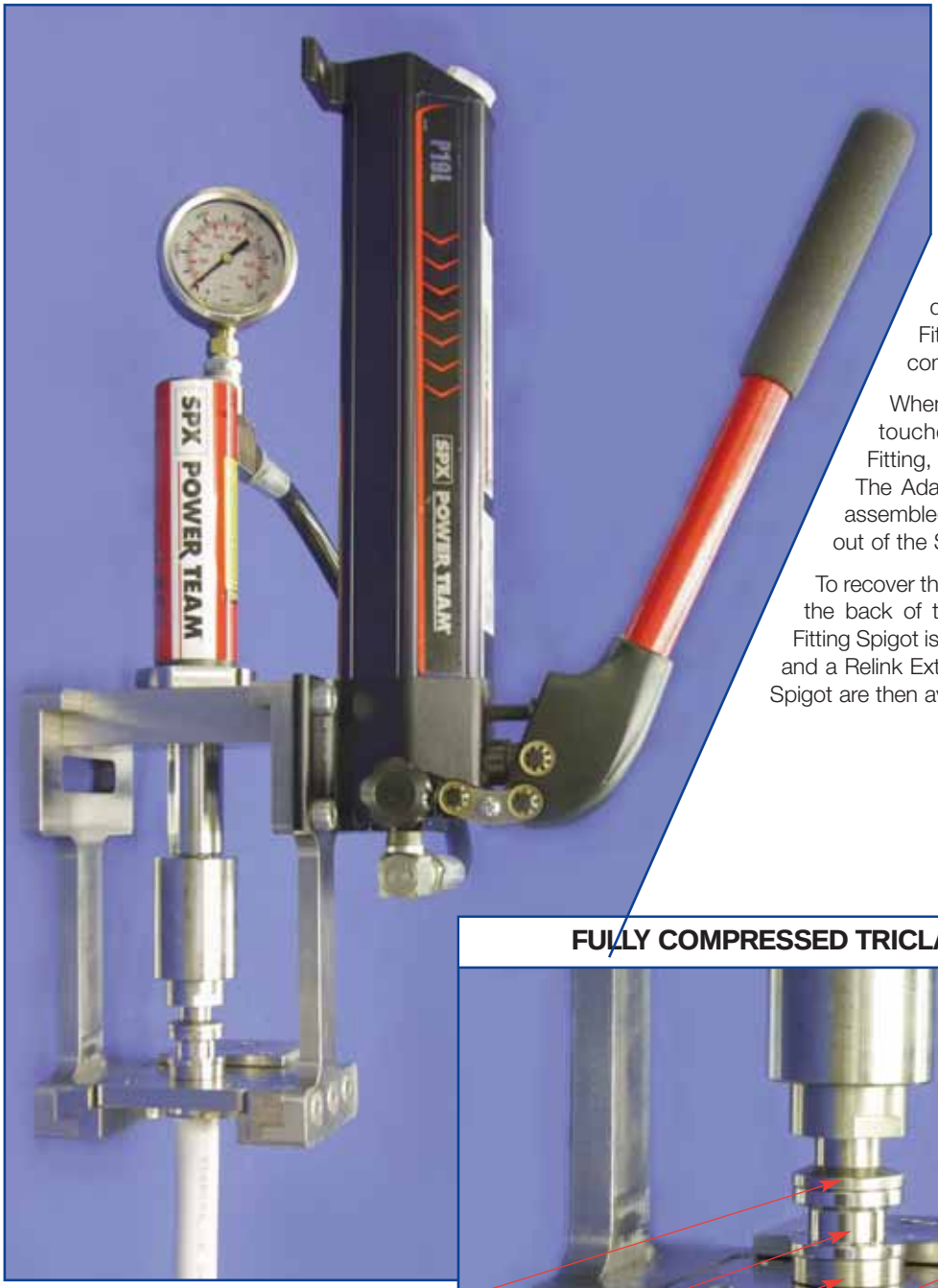
RELINK HYDRAULIC PRESS

EXAMPLE SHOWN: A RELINK TRICLAMP ASSEMBLY



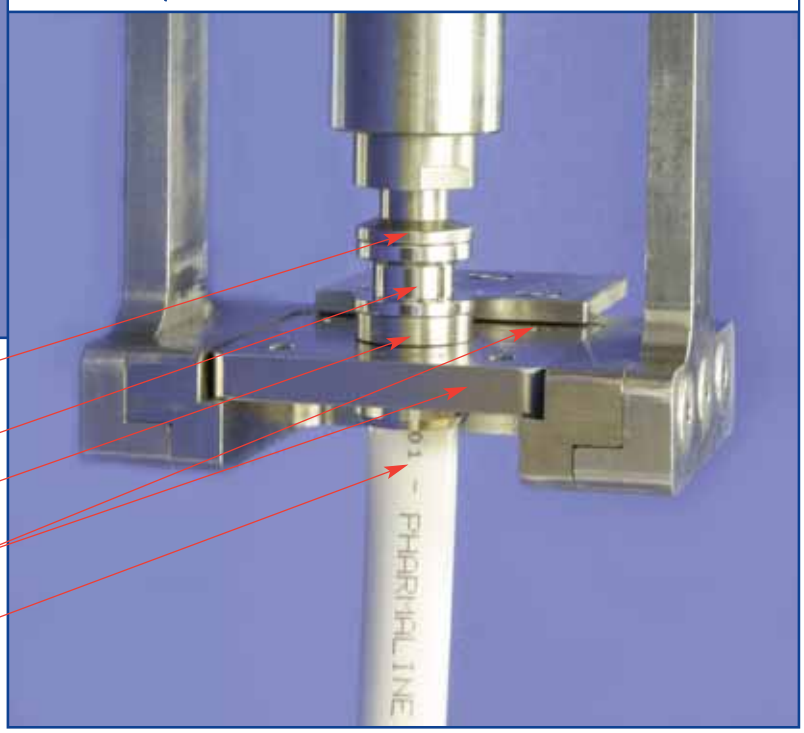
The Relink Triclamp components and the hose are assembled, and inserted into the Press by encapsulating the groove in the Compression Sleeve between the two Slide Plates as shown.

The Press Triclamp Adaptor is then pressed down, to engage the Triclamp Fitting Insert and commence compression.

When the Compression Sleeve touches the shoulder on the Fitting, the assembly is completed. The Adaptor is reversed, freeing the assembled fitting for removal by sliding out of the Slide Plates.

To recover the Fitting, the hose is cut off at the back of the Fitting, and the Triclamp Fitting Spigot is pressed out, using the Press and a Relink Extraction Tool. The Sleeve and Spigot are then available for re-use.

FULLY COMPRESSED TRICLAMP FITTING



PRESS TRICLAMP ADAPTOR

TRICLAMP FITTING

COMPRESSION SLEEVE

SLIDE PLATES

HOSE

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