

# Hydraline FX - Smooth Bore, Externally Convoluted PTFE Lined Hose

## Design & Purpose

Hydraline FX is unlike any other PTFE hose product currently available.

The PTFE liner tube is smooth bore on the inside but convoluted on the outside, to combine the ease of assembly and high flow rates of a smooth bore hose with the flexibility and kink resistance of a convoluted hose in one product!

Hydraline FX is designed to be used in place of Smoothbore Hose when improved flexibility is required, and to replace Convoluted Hose when improved flow characteristics or easier assembly is required.

Hydraline FX is available in the following grades:

**Hydraline FX, TO** - Natural PTFE Tube Only, no braid.

**Hydraline FX, AS, TO** - Antistatic Black PTFE Tube Only, no braid.

**Hydraline FX, SS** - Natural PTFE Tube external 304 Stainless Steel Braid.

**Hydraline FX, AS, SS** - Antistatic Black PTFE Tube, external 304 Stainless Steel Braid.

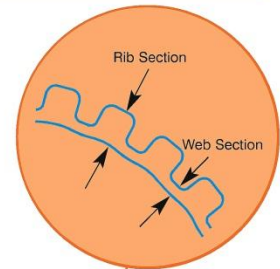
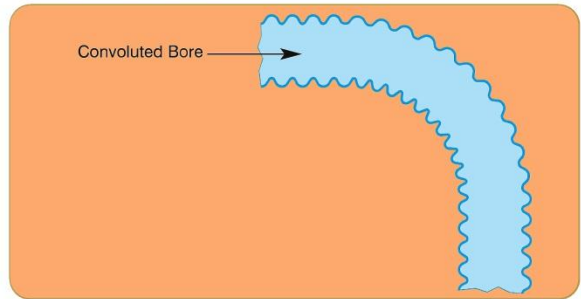
**Hydraline FX, AM** - Natural PTFE Tube, Polyaramid Fibre Braid.

**Hydraline FX, AS, AM** - Antistatic Black PTFE Tube, Polyaramid Fibre Braid.

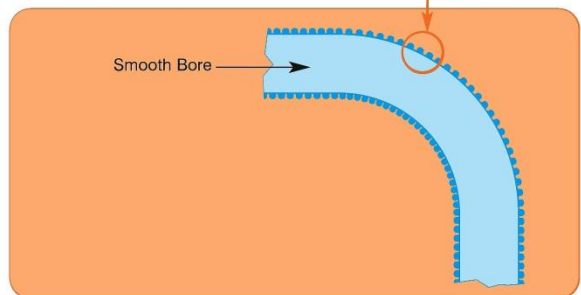
To special order, Hydraline FX can also be supplied with a Polypropylene Braid, or with a Stainless Steel braid with an EPDM or Silicone Rubber Cover, or a PVC, Nylon or other Plastic Cover, printed if required.



Conventional Convoluted PTFE Liner



Hydraline FX Liner



Specifications for Hydraline FX, SS or FX, AS, SS Only (for Hydraline FX, AM and FX, AS, AM, apply the factors shown in Red).

Nominal Hose Size	Part Number *Natural Grade Only (Cancel -02, add -55-01)	Actual Hose Bore Size (Same)		TO (Tube Only) Outside Dia. (Same)		SS Braid Outside Dia (Same)		Minimum Bend Radius (x 2.0)		Maximum Working Pressure (x 0.7)		Burst Pressure (Same)	
		in	mm	in	mm	in	mm	in	mm	psi	BAR	psi	BAR
1/4	92-100-04-01-02	0.270	6.8	0.354	9.00	0.378	9.6	3/8	19	1300	88	8400	580
3/8	92-100-06-01-02	0.394	10.0	0.492	12.50	0.534	13.5	1	25	1200	80	7500	520
1/2	92-100-08-01-02	0.536	13.6	0.640	16.28	0.690	17.5	1 1/4	32	900	60	5500	380
5/8	92-100-10-01-02	0.658	16.7	0.787	20.00	0.843	21.0	2	50	750	50	5200	360
3/4	92-100-12-01-02	0.780	19.8	0.913	23.20	0.948	24.1	2 3/8	60	625	42	5000	350
1	92-100-16-01-02	1.039	26.4	1.193	30.30	1.250	31.3	2 7/8	73	580	40	3800	260

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# Hydraline PTFE Lined Flexible Hose Products

## Introduction

The Hydraline range of hose products includes three product groups, designed for assembly with standard, off-the-shelf hydraulic fittings, using ferrules supplied by Aflex Hose. The actual hose bore sizes are larger than the nominal hose bore sizes, in order to accommodate the actual diameters of the hydraulic inserts, providing an easy fit.

The Hydraline Hose products are designed to be sold either for "Self Assembly" by distributors, or as fully assembled and tested hoses for end use.

Application areas include Automotive and General Industrial, and are further described for the individual products.

The three Product Groups are:

### Hydraline SB

Standard, Smoothbore natural or \*antistatic PTFE tube, with a single Stainless Steel (SS) wire braid or double braid (to special order).



### Hydraline V (also called 'Visiflon')

Seamless extruded and convoluted natural or \*antistatic PTFE tube, with a Stainless Steel (SS) wire braid, or an orange Polypropylene Braid (to special order).



### Hydraline FX

Our revolutionary new product. A natural or \*antistatic PTFE tube with a smooth bore, but externally convoluted. Supplied with a Stainless Steel (SS) wire braid or a Black Polyaramid Fibre braid (AM).

Hydraline FX combines the advantages of Hydraline SB (smoothbore, therefore excellent flow rates) with the advantages of Hydraline V (convoluted, therefore much more flexible, particularly in the bigger bore sizes) in **ONE** product.

