

HYPERLINE 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).

Design & Purpose

Hyperline 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!

Hyperline 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.

Hyperline FX is available in the following grades:

Hyperline FX, TO - Natural PTFE Tube Only, no braid.

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

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

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

Hyperline FX, AM - Natural PTFE Tube, Polyaramid Fibre Braid.

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

Hyperline FX special order - Hyperline 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.

PROPERTIES

Temperature Rating

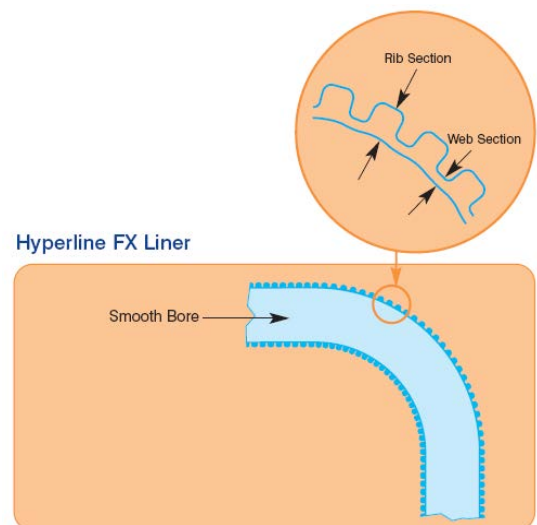
The temperature rating is from -70° to +260°C, but the Maximum Working Pressure (MWP) must be reduced by 1% for each 1°C above 130°C. The maximum working temperature for the Polyaramid Fibre braided hose is +180°C.

Pressure Resistance

The maximum working pressures are as listed, up to 130°C (266°F). The design of a conventional autoconvoluted PTFE hose liner permits internal "pressing out" of the convolutions inside the braid over time, and under temperature and pressure, leading to premature failures. The narrow and highly compressed web sections of Hyperline FX are much more resistant to pressing out, hence a much longer service life under pressure can be achieved. Tube Only grades can only be used at pressures up to 4 Bar (60 psi) up to 130°C (266°F) and are not fully vacuum resistant.

Full Vacuum Resistance

Stainless Steel braided Hyperline FX hose is fully vacuum resistant up to 130°C .



Contact us:

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Catalogues:

Ducting hoses
 Industrial hoses
 Fittings
 Safety couplings
 Chemical resistance table ducting hoses
 Chemical resistance table hoses

Reduced Diffusion Rates

The way the Hyperline FX tube liner is made, by web compression without fracture, surprisingly generates a much improved resistance to gas permeation, compared to any other type of smooth bore or convoluted PTFE hose. Much lower diffusion rates can therefore be achieved.

Excellent Flow Rates

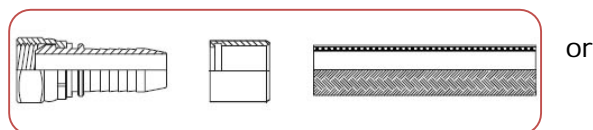
Due to the non-turbulent flow through a smooth bore hose, Hyperline FX flow rates for a given pressure drop and actual bore size are 2 to 3 times higher than for a convoluted PTFE hose. (This applies to the hose itself. If end fittings are applied, however, which introduce a smaller bore at the ends, this multiple is reduced). The "whistling" noises created by the turbulent flow of gases or steam through convoluted hose are eliminated in Hyperline FX.

Excellent Internal Cleanability

Internal cleanliness and self-drainability are optimised by the smooth bore design. This eliminates 'pockets' of fluid trapped in internal convolutions when using convoluted hose.

Conventional hydraulic hose tail end fittings.

Problems associated with assembling fittings to convoluted hoses, such as leakages, the need for special sleeved spigots, the need to de-convolute etc disappear – Hyperline FX is literally as easy to assemble as any smooth bore hose. Details concerning the Assembly Instructions.



APPLICATIONS

- Automotive and Motorsport - replacing conventional PTFE hoses in ESP systems, fuel systems, braking systems and oil lines.
- Refrigeration : refrigerant feed lines to freezer plates, where the high resistance to permeation, together with the flexibility and chemical resistance, are primary advantages.
- Steam and Gas Lines : where the smooth bore ensures nonturbulent gas flow, leading to noise free operation at higher flow rates, and longer service life.
- Industrial applications in general where the ease of assembly to end fittings together with the higher flow rates, chemical and temperature resistance and resistance to permeation make Hyperline FX the optimum choice.
- Not suitable for use in applications requiring PTFE Lined and Flared End Fittings - for such applications only Bioflex is suitable.

HYPERLINE FX Specifications

Number	Size	Type	I.D.	O.D.	O.D. of braid	R min	WP	BP
	inch		mm	mm	mm	mm	bar	bar
92-100-04-01-02	1/4"	SS	6.8	9.00	9.6	19	88	580
92-110-04-01-02		SS,AS	6.8	9.00	9.6	19	88	580
92-100-04-01-02		AM	6.8	9.00	9.6	38	62	580
92-110-04-01-02	3/8"	AM,AS	6.8	9.00	9.6	38	62	580
92-100-06-01-02		SS	10.0	12.50	13.5	25	80	520
92-110-06-01-02		SS,AS	10.0	12.50	13.5	25	80	520
92-100-06-01-02	1/2"	AM	10.0	12.50	13.5	50	56	520
92-110-06-01-02		AM,AS	10.0	12.50	13.5	50	56	520
92-100-08-01-02		SS	13.6	16.28	17.5	32	60	380
92-110-08-01-02	5/8"	SS,AS	13.6	16.28	17.5	32	60	380
92-100-08-01-02		AM	13.6	16.28	17.5	64	42	380
92-110-08-01-02		AM,AS	13.6	16.28	17.5	64	42	380
92-100-10-01-02	5/8"	SS	16.7	20.00	21.0	50	50	360
92-110-10-01-02		SS,AS	16.7	20.00	21.0	50	50	360
92-100-10-01-02		AM	16.7	20.00	21.0	100	35	360

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Number		Type	I.D.	O.D.	O.D. of braid	R min	WP	BP
92-110-10-01-02	3/4"	AM,AS	16.7	20.00	21.0	100	35	360
92-100-12-01-02		SS	19.8	23.20	24.1	60	42	350
92-110-12-01-02		SS,AS	19.8	23.20	24.1	60	42	350
92-100-12-01-02		AM	19.8	23.20	24.1	120	29	350
92-110-12-01-02	1"	AM,AS	19.8	23.20	24.1	120	29	350
92-100-16-01-02		SS	26.4	30.30	31.3	73	40	260
92-110-16-01-02		SS,AS	26.4	30.30	31.3	73	40	260
92-100-16-01-02		AM	26.4	30.30	31.3	146	28	260
92-110-16-01-02		AM,AS	26.4	30.30	31.3	146	28	260
92-110-16-01-02								

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