HYPERLINE™ FX

DESIGN AND 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 on one product. Hyperline FX is designed to be used in place of smooth bore hose when improved flexibility is required and to replace convoluted hose when improved flow characteristics or easier assembly is required.

Hyperline FX is designed for use in a wide variety of applications, such as: 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 non-turbulent gas flow, leading to noise free operation at higher flow rates and longer service life.

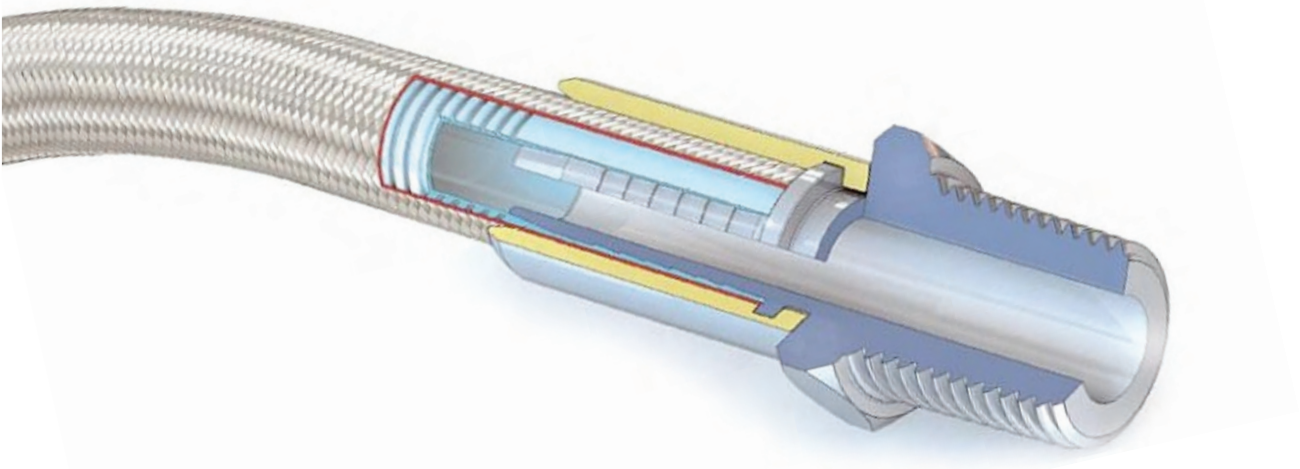
Industrial applications in general where the ease of assembly to end fittings together with higher flow rates, chemical and temperature resistance and resistance to permeation make Hyperline FX the optimum choice.

Hyperline FX is available in the following grades:

Hyperline FX, TO – Natural PTFE tube only, no braid.
Hyperline FX, AS, TO – Anti-static black PTFE tube only, no braid.
Hyperline FX, SS – Natural PTFE tube, external 304 stainless steel braid.
Hyperline FX, AS, SS – Anti-static black PTFE tube, external stainless steel braid.

To 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.

Please go to our web site www.adtflex.co.uk to see our full selection of hose covers and protections.



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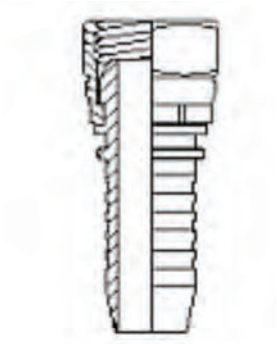
TEMPERATURE RATING

The temperature rating is from -70°C (-94°F) to +260°C (500°F), but the Maximum Working Pressure (MWP), must be reduced by 1% for each 1°C ABOVE 130°C (1% for each 1.8°F above 266°F).



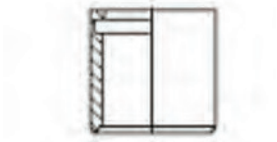
PRESSURE RATINGS

The maximum working pressure are as listed, up to 130°C (266°F).

Tube only can only be used at pressures up to 4 bar upto 130°C (266°F) and are not fully vacuum resistant.

VACUUM RESISTANCE

Stainless steel braided Hyperline FX hose is fully vacuum resistant up to 130°C (266°F).



FLOW RATES

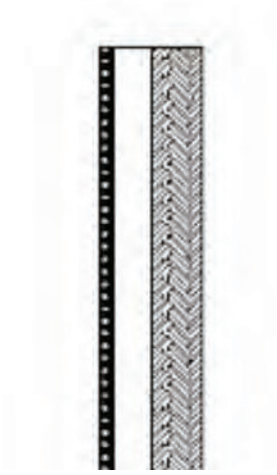
Due to the non-turbulent flow through a smooth bore the whistling noises created by turbulent flow of gases or steam through convoluted hose are eliminated in Hyperline FX.

Hyperline FX optimizes internal clean ability and cleanliness. Self-drain ability are also optimised by the smooth bore design.

ASSEMBLY

Hyperline FX is very flexible and is designed to replace conventional PTFE convoluted hoses in application where faster cleaner fluid flow or ease of assembly is paramount.

SS or MS ferrules and crimp diameters can be supplied to suit any conventional hydraulic hose tail end fitting.



Nominal Hose Size	Actual Through Bore		Hose Braid	Outside Diameter of Braid		Minimum Bend Radius		Maximum Working Pressure		Weight per Mtr
in	mm	in		mm	in	mm	in	bar	psi	kg
1/4	6.8	0.270	SS	9.6	0.378	19	3/4	88	1280	0.092
3/8	10.0	0.394	SS	13.5	0.534	25	1	80	1160	0.160
1/2	13.6	0.536	SS	17.5	0.690	38	1 1/2	60	870	0.225
5/8	16.7	0.658	SS	21.4	0.843	50	2	50	730	0.336
3/4	19.8	0.780	SS	24.2	0.953	63	2 1/2	42	610	0.179
1	26.4	1.040	SS	31.7	1.250	75	3	40	580	0.540