

Hyperline FX[®]

PTFE hose for automotive and general purpose applications

FEATURES AND BENEFITS

- Natural or anti-static patented PTFE liner
- Smooth bore, but with much improved flexibility due to the externally convoluted PTFE liner design
- High temperature and pressure capability
- Chemical resistant
- Full range of non-lined end fittings
- Various braid and cover options



TECHNICAL SPECIFICATION

Size range	
Hose bore size range	1/4" (6.8mm actual bore) up to 1" (26.0mm actual bore)
Hose lengths	
All sizes	up to 18m (60ft)
Cut lengths and preformed lengths available	
Temperature limits	
Depending on pressure	-73C (-100F) up to +260C (+500F)
Working pressure ratings	
Stainless steel braided	from 88bar (1,280psi) for 1/4" to 40bar (580psi) for 1"
Aramid fibre braided	from 62bar (900psi) for 1/4" to 28bar (400psi) for 1"
Vacuum limitations	
For all sizes of stainless steel braided hose	Vacuum resistant to -0.9bar up to +150C (+300F)
Approvals	
ISO 9001:2015, ISO 14001:2015, OHSAS 18001:2015, EN16643:2016, TS 16949:2016, FDA (materials), SAE J1737, 3.1 Traceability	

OPTIONS AND ACCESSORIES

Liner options	
Liner available in;	Natural PTFE or anti-static PTFE (AS)
End fitting options	
Non-lined design for;	BSPT and NPT male and female, BSP and NPSM cone and flat seat female union fittings, JIC threaded fittings, standpipe fittings and many more
Braid and cover options	
Braid design options	Stainless steel wire braid (SS), black aramid fibre braid (AM) or tube only (TO - no braid)
External cover options available to special order	Flexible PVC, nylon 11, Sarlink, Hytrel, polyurethane, EPDM rubber, silicone rubber, clear or coloured, with printing

PERFORMANCE DATA

Specifications listed below are for non-antistatic grades. For anti-static (AS) grades the specifications are all the same, except that "AS" is added to the grade reference, and the part number reads "-110-" in place of "-100-".

Nominal hose size		*Actual hose bore size		Hose grade	Outside diameter of tube or braid		Minimum bend radius		Maximum working pressure (MWP)		Weight per unit length		Hose part number
in	mm	in	mm		in	mm	in	mm	bar	psi	kg/mtr	lbs/ft	
¼	6.0	0.270	6.8	TO	0.354	9.0	1½	38	4	60	0.041	0.027	92-100-04
				SS	0.378	9.6	¾	19	88	1,280	0.092	0.062	92-100-04-01-02
				AM	0.378	9.6	1½	38	62	900	0.056	0.038	92-100-04-01-55-01
⅕	8.0	0.312	7.9	TO	0.394	10.0	1½	38	4	60	0.056	0.037	92-100-05
				SS	0.420	10.6	¾	19	84	1,220	0.126	0.084	92-100-05-01-02
				AM	0.445	11.3	1½	38	59	850	0.075	0.050	92-100-05-01-55-01
⅜	10.0	0.394	10.0	TO	0.492	12.5	2	50	4	60	0.070	0.047	92-100-06
				SS	0.534	13.5	1	25	80	1,160	0.160	0.107	92-100-06-01-02
				AM	0.534	13.5	2	50	56	810	0.100	0.067	92-100-06-01-55-01
½	15.0	0.536	13.6	TO	0.640	16.2	3	76	4	58	0.110	0.074	92-100-08
				SS	0.690	17.5	1½	38	60	870	0.225	0.151	92-100-08-01-02
				AM	0.690	17.5	3	76	42	600	0.140	0.094	92-100-08-01-55-01
⅝	16.0	0.658	16.7	TO	0.787	20.0	4	100	3	44	0.161	0.108	92-100-10
				SS	0.831	21.1	2	50	50	730	0.336	0.226	92-100-10-01-02
				AM	0.831	21.1	4	100	35	510	0.204	0.137	92-100-10-01-55-01
¾	20.0	0.780	19.8	TO	0.913	23.2	5	126	3	44	0.179	0.120	92-100-12
				SS	0.953	24.2	2½	63	42	610	0.383	0.257	92-100-12-01-02
				AM	0.953	24.2	5	126	29	430	0.236	0.158	92-100-12-01-55-01
1	25.0	1.023	26.0	TO	1.193	30.3	6	150	2	29	0.268	0.180	92-100-16
				SS	1.250	31.7	3	75	40	580	0.540	0.362	92-100-16-01-02
				AM	1.250	31.7	6	150	28	400	0.354	0.237	92-100-16-01-55-01

*Hydraulic Bore Size - The actual bore sizes of Hyperline FX hose are slightly larger than the nominal size, to allow the insertion and assembly of standard Hydraulic Fittings, using ferrules supplied by Aflex Hose.

Hyperline FX, SS Grades

The MWP listed above should be reduced by 1% for each 1C above 160C (1% for each 1.8F above 320F) up to a maximum of 260C (500F).

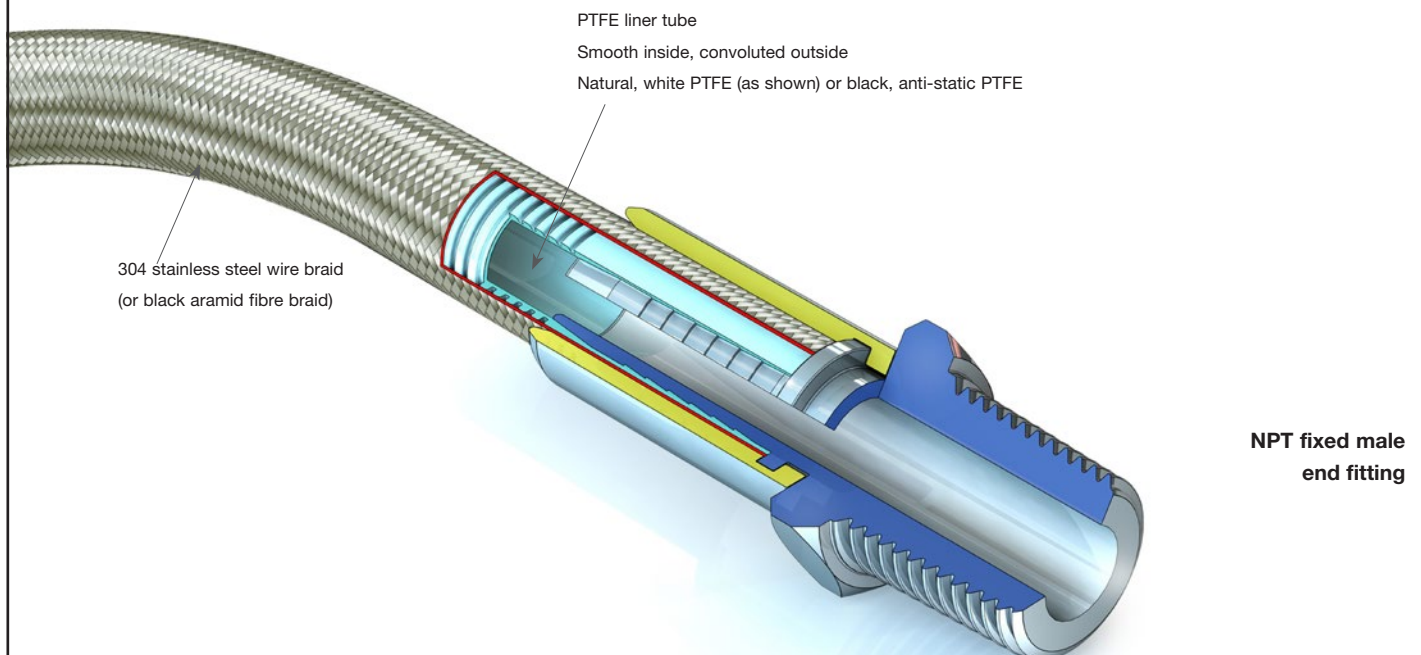
Hyperline FX, AM Grades

The MWP listed above should be reduced by 1% for each 1C above 130C (1% for each 1.8F above 266F) up to a maximum of 180C (356F).

Maximum working pressures (MWP) listed are calculated on the basis of a 3:1 safety factor relative to the burst pressure, so burst pressure = 3 x MWP. If MWP is required based on a 4:1 safety factor (e.g. EN 16643 requirement), multiply the listed value by 0.75.

MATERIALS OF CONSTRUCTION

Hyperline FX, SS - stainless steel PTFE hose assembly



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