

HYPERLINE FX HOSE: SPECIFICATIONS AND PROPERTIES

SPECIFICATIONS FOR HYPERLINE FX HOSE GRADES

Specifications listed below are for non-AS Grades. For 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	mm	in	**	in	mm	in	mm	Bar	Psi	Kg/mtr	Lbs/Ft	
1/4	6.0	6.8	0.270	TO	0.354	9.0	1 1/2	38	4	60	0.041	0.027	92-100-04
				SS	0.378	9.6	3/4	19	88	1,280	0.092	0.062	92-100-04-01-02
				AM	0.378	9.6	1 1/2	38	62	900	0.056	0.038	92-100-04-01-55-01
5/16	8.0	7.9	0.312	TO	0.394	10.0	1 1/2	38	4	60	0.056	0.037	92-100-05
				SS	0.420	10.6	3/4	19	84	1,220	0.126	0.084	92-100-05-01-02
				AM	0.445	11.3	1 1/2	38	59	850	0.075	0.050	92-100-05-01-55-01
3/8	10.0	10.0	0.394	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
1/2	15.0	13.6	0.536	TO	0.640	16.2	3	76	4	58	0.110	0.074	92-100-08
				SS	0.690	17.5	1 1/2	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
5/8	16.0	16.7	0.658	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
3/4	20.0	19.8	0.780	TO	0.913	23.2	5	126	3	44	0.179	0.120	92-100-12
				SS	0.953	24.2	2 1/2	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	26.0	1.023	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 (see page 9).

PROPERTIES

Temperatures and Pressures

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

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

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.

Vacuum Resistance

Hyperline FX, SS Grades are vacuum resistant to -0.9bar up to 150°C (300°F).

LOOSE HOSE LENGTHS

Loose hose is supplied in random lengths up to a maximum of 18 metres (60 feet) long.

ASSEMBLED HOSE LENGTHS

Hyperline FX hose assemblies are made up to the specific lengths required. The hose length is taken as the length from the sealing face at one end of the hose to the same at the other end. The length tolerance is normally +2% / -0%. Closer tolerances are available to special order.

Excellent Flow Rates

Compared with conventional convoluted hose designs, Hyperline FX has excellent flow rates due to the smooth bore, which prevents the turbulent fluid flow which occurs in convoluted hose products.

Reduced Diffusion Rates

Hyperline FX is much more resistant to diffusion of liquids or gases than other PTFE hose products, due to its highly compressed, non-porous PTFE matrix. Hyperline FX has been successfully tested to SAE J1737 for resistance to automotive fuel diffusion.

Non-Stick Internal Surface

Hyperline FX hose has a smooth bore, non-stick liner which is effectively "self-cleaning", and which resists material build-up inside the hose which may cause bore constriction.