Hyperline VI

Hyperline VI consists of a PTFE liner that has convoluted internal and external surfaces.

- Hyperline VI consists of a PTFE liner that is fully convoluted internally and externally
- Vacuum resistance SS grades are vacuum resistant to -0.9 bar up to 130˚C (266˚F).
- Hyperline VI TO and AM grades are vacuum resistant to -0.9 bar up to 80˚C (176˚F)
- Extremely Flexible

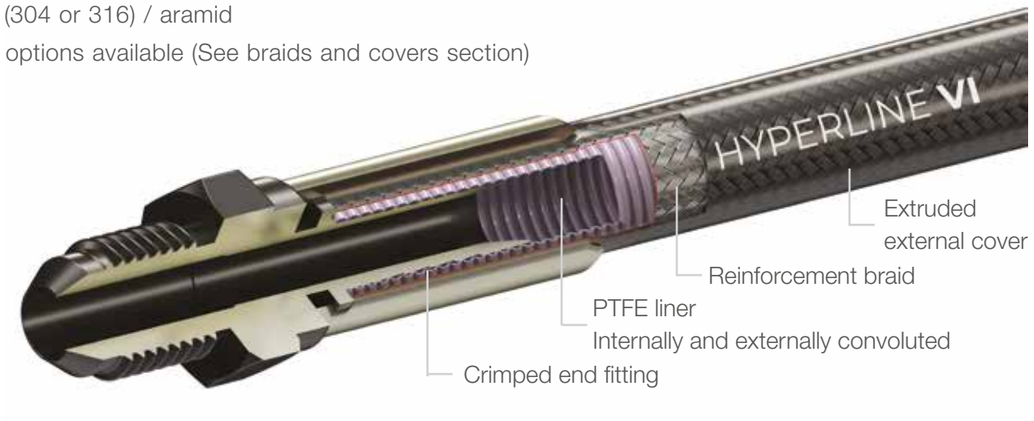
Hyperline VI construction

Design variations

Liner: AS or natural (ASTM D4895)

Braids: SS (304 or 316) / aramid

Covers: All options available (See braids and covers section)



Hyperline VI properties

Vacuum Resistance

Hyperline VI SS Grades are vacuum resistant to -0.9 bar up to 130˚C (266˚F).

Hyperline VI TO and AM Grades are vacuum resistant to -0.9 bar up to 80˚C (176˚F).

Flow Rates

The internal convolutions restrict flow rates due to turbulent flow, and may also cause a whistling noise when gases are passed through. For any applications where this may be a problem, the alternative Aflex Hose products Hyperline FX or Hyperline KR would provide a solution

Hyperline VI

Hose size		Actual bore size		**Hose construction	Outside diameter of tube or braid		Minimum bend radius		Maximum working pressure		Burst pressure		Weight per unit length		*Part number
in	Dash size	in	mm		in	mm	in	mm	Bar	Psi	Bar	Psi	kg/m	lb/ft	
⅜	6	0.0248	6.3	TO	0.435 - 0.465	11.05 - 11.81	1	25	4	58	12	174	0.057	0.038	71-100-06
				SS	0.455 - 0.485	11.55 - 12.32	¾	19	60	870	180	2,610	0.144	0.096	71-100-06-01-02
				AM	0.475 - 0.505	12.07 - 12.83	1	25	45	652	135	1,956	0.071	0.047	71-100-06-01-55-01
½	8	0.374	9.5	TO	0.563 - 0.597	14.30 - 15.16	1 ½	38	4	58	12	174	0.076	0.051	71-100-08
				SS	0.580 - 0.620	14.73 - 15.75	1	25	47	680	141	2,040	0.195	0.130	71-100-08-01-02
				AM	0.602 - 0.637	15.29 - 16.18	1 3/16	30	34	493	102	1,479	0.112	0.075	71-100-08-01-55-01
⅝	10	0.500	12.7	TO	0.750 - 0.790	19.05 - 20.07	1 ¾	50	4	58	12	174	0.126	0.084	71-100-10
				SS	0.815 - 0.855	20.70 - 21.72	2	38	40	580	120	1,740	0.296	0.194	71-100-10-01-02
				AM	0.798 - 0.841	20.27 - 21.36	1 ½	35	30	435	90	1,305	0.158	0.106	71-100-10-01-55-01
¾	12	0.630	16	TO	0.828 - 0.872	21.03 - 22.15	1 ⅜	75	3	43	9	129	0.166	0.111	71-100-12
				SS	0.874 - 0.914	22.20 - 23.22	2	50	32	460	96	1,380	0.376	0.251	71-100-12-01-02
				AM	0.872 - 0.918	22.14 - 23.32	2 ⅜	60	24	348	72	1,044	0.198	0.133	71-100-12-01-55-01
1	16	0.866	22	TO	1.135 - 1.185	28.83 - 30.10	3 ½	89	3	43	9	129	0.235	0.157	71-100-16
				SS	1.179 - 1.229	29.94 - 31.22	2 ½	63	26	380	78	1,140	0.533	0.310	71-100-16-01-02
				AM	1.190 - 1.249	30.23 - 31.73	3 ½	89	20	290	60	870	0.298	0.200	71-100-16-01-55-01
1 ¼	20	1.102	28	TO	1.395 - 1.455	35.43 - 36.96	4	100	2	29	6	87	0.342	0.229	71-100-20
				SS	1.445 - 1.495	36.70 - 37.97	3	75	25	360	75	1,080	0.729	0.489	71-100-20-01-02
				AM	1.403 - 1.471	35.64 - 37.36	4	100	17	246	51	738	0.446	0.299	71-100-20-01-55-01

* For anti-static grade, add 10 to the 3-digit part number e.g. 71-100- becomes 71-110-

**Hose construction - (TO) tube only, (SS) stainless steel, (AM) aramid

Temperature and pressures

Hyperline VI TO Grades - The MWP listed above applies up to a maximum temperature of 100 ˚C (212 ˚F).

Hyperline VI SS Grades - The MWP listed above should be reduced by 1% for each 1˚C above 130 ˚C up to a maximum of 230 ˚C (1% for each 1.8 ˚F above 266 ˚F up to a maximum of 450 ˚F).

Hyperline VI AM Grades - The MWP listed should be reduced by 5% for each 1˚C above 80˚C up to a maximum of 100 ˚C (5% for each1.8 ˚F above 176 ˚F to 212 ˚F)

Assembly instructions

1. Cut the hose to the required length, preferably using a hose cut off machine with a hardened steel blade, allowing for the length of the end fitting.
2. Assemble the correct ferrules on to the hose ends.
3. Open the hose bore, by screwing in then pulling out the correct Hyperline VI Opening Tool (Manual or Motorised). For hydraulic fittings, use the basic tool. For PTFE tail fittings, add the correct collar to the tool.
4. Insert the end fitting, then push the ferrule fully over the hose up to the end fitting.
5. Crimp the ferrule to the correct diameter as given in Aflex Document AS-42 for Hydraulic Inserts, or AS-VI-01 for PTFE Tail Inserts. These are available on an I-Bay system - apply to Aflex Hose for access codes. Check using a Vernier or Micrometer.
6. Pressure test the assembly with air or water to 1.5 x listed Maximum Working Pressure before use in application.