

Hyperline KR

Hyperline KR sets the standard for PTFE lined hose solutions for automotive applications.

- The ultimate flexible solution
- Internally smooth for fast laminar flow and system efficiency
- Externally convoluted for a high degree of flexibility
- Helically wound 316 stainless steel wire for added kink resistance and usable at vacuum up to -0.9 bar
- Resistant to temperatures from -150 °C to 260 °C



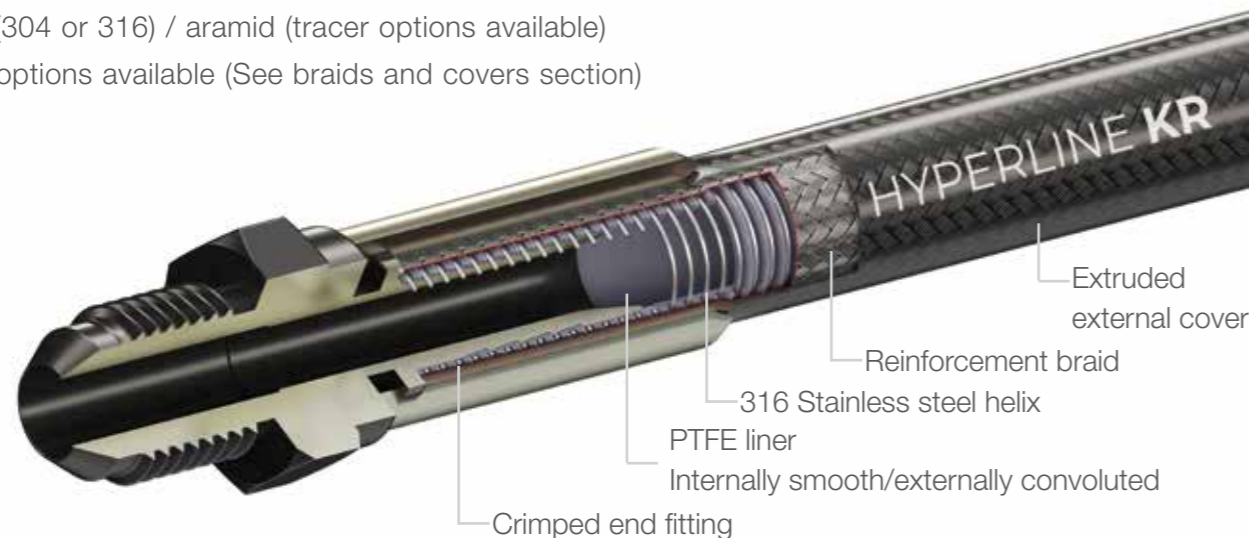
Hyperline KR construction

Design variations

Liner: AS or natural (ASTM D4895)

Braids: SS (304 or 316) / aramid (tracer options available)

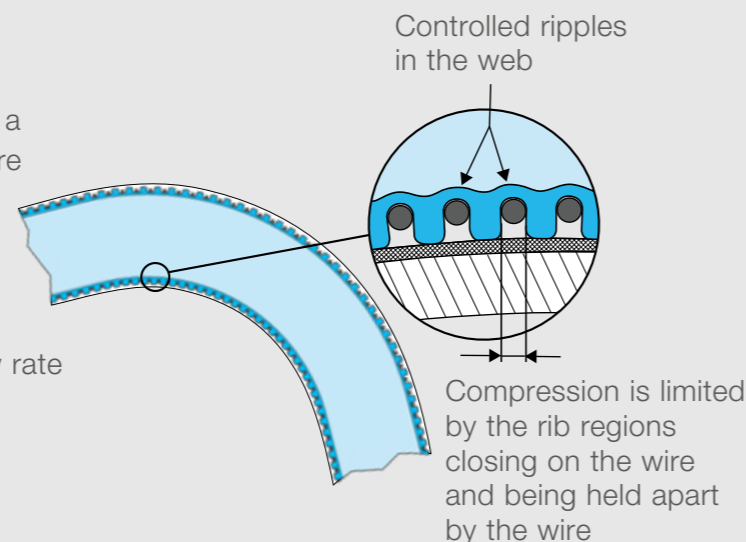
Covers: All options available (See braids and covers section)



Aflex Hose unique PTFE liner

The patented design of the PTFE liner used in Hyperline KR allows the liner to expand around the outside and compress around the inside of a bend. This helps to retain a smooth circular bore throughout the hose, without distortion.

- Natural or anti-static options
- No entrapment zones
- Minimal turbulence allows for increased flow rate
- Excellent internal cleanability
- Longer service life



Hyperline KR

Hose bore 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	
3/8	6	0.381 - 0.407	9.69 - 10.34	TO	0.475 - 0.511	12.06 - 12.98	1 3/8	35	10	145	30	435	0.06	0.04	86-100-06
		0.376 - 0.406	9.55 - 10.32	SS	0.502 - 0.542	12.75 - 13.77	3/4	19	140	2030	420	6091	0.14	0.09	86-100-06-01-01
		0.376 - 0.406	9.55 - 10.32	AM	0.515 - 0.555	13.08 - 14.10	3/4	19	140	2030	420	6091	0.10	0.15	86-100-06-01-55-01
1/2	8	0.518 - 0.544	13.17 - 13.83	TO	0.624 - 0.674	15.87 - 17.13	1 5/8	42	10	145	30	435	0.15	0.10	86-100-08
		0.502 - 0.529	12.77 - 13.43	SS	0.672 - 0.714	17.07 - 18.13	1 1/2	28	122	1769	367	5322	0.29	0.19	86-100-08-01-01
		0.506 - 0.533	12.87 - 13.53	AM	0.668 - 0.718	16.97 - 18.23	1 1/2	28	122	1769	367	5322	0.18	0.12	86-100-08-55-01
5/8	10	0.644 - 0.670	16.37 - 17.03	TO	0.766 - 0.816	19.47 - 20.73	1 3/4	45	10	145	30	435	0.17	0.11	86-100-10
		0.629 - 0.655	15.97 - 16.63	SS	0.826 - 0.867	20.97 - 22.03	1 1/4	32	113	1638	341	4945	0.35	0.23	86-100-10-01-01
		0.644 - 0.670	16.37 - 17.03	AM	0.826 - 0.875	20.97 - 22.23	1 1/4	32	113	1638	341	4945	0.26	0.17	86-100-10-55-01
3/4	12	0.774 - 0.804	19.67 - 20.43	TO	0.904 - 0.958	22.97 - 24.33	2 1/8	53	10	145	30	435	0.20	0.13	86-100-12
		0.751 - 0.785	19.07 - 19.93	SS	0.956 - 1.005	24.27 - 25.53	1 1/2	35	105	1522	315	4568	0.40	0.27	86-100-12-01-01
		0.774 - 0.804	19.67 - 20.43	AM	0.963 - 1.017	24.47 - 25.83	1 1/2	35	105	1522	315	4568	0.31	0.20	86-100-12-55-01
7/8	14	0.861 - 0.891	21.87 - 22.63	TO	1.006 - 1.060	25.57 - 26.93	2 1/2	63	10	145	30	435	0.34	0.23	86-100-14
		0.853 - 0.887	21.67 - 22.53	SS	1.066 - 1.115	27.07 - 28.33	1 5/8	40	96	1392	288	4177	0.60	0.40	86-100-14-01-01
		0.861 - 0.891	21.87 - 22.63	AM	1.066 - 1.119	27.07 - 28.43	1 5/8	40	96	1392	288	4177	0.41	0.27	86-100-14-55-011
1	16	1.026 - 1.046	26.07 - 26.57	TO	1.187 - 1.241	30.17 - 31.53	3	77	10	145	30	435	0.36	0.24	86-100-16
		1.003 - 1.036	25.47 - 26.33	SS	1.231 - 1.273	31.27 - 32.33	2	50	87	1261	262	3799	0.63	0.42	86-100-16-01-01
		1.015 - 1.041	25.77 - 26.43	AM	1.247 - 1.300	31.67 - 33.03	2	50	87	1261	262	3799	0.50	0.33	86-100-16-55-01
1 1/4	20	1.282 - 1.312	32.57 - 33.33	TO	1.471 - 1.525	37.37 - 38.73	3 7/8	98	10	145	30	435	0.45	0.30	86-100-20
		1.270 - 1.304	32.27 - 33.13	SS	1.530 - 1.580	38.87 - 40.13	2 7/8	70	78	1131	236	3422	0.85	0.57	86-100-20-01-01
		1.267 - 1.300	32.17 - 33.02	AM	1.519 - 1.568	38.57 - 39.83	2 7/8	70	78	1131	236	3422	0.74	0.50	86-100-20-01-55-01

* For anti-static grade, add 10 to the 3-digit part number e.g. 86-100- becomes 86-110.

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

The performance testing results stated in the above table have been carried out at ambient temperature, in a controlled laboratory environment, using water as the media. We recommend that the customer carries out stringent application performance testing on the hose, using the actual working conditions over a set period of time to validate the hose.

Temperature vs pressure

Due to its extremely strong construction, Hyperline KR has outstanding resistance to temperature and pressure, much higher than that of conventional convoluted PTFE lined hose.

Maximum working pressure (MWP) variation with temperature

Temperature and pressure limitations for the various sizes and specification variations of Hyperline KR is depicted on the graph.

Temperature and maximum working pressure graph for Hyperline KR

