

HYPERLINE V

Design & Purpose

Hyperline V is designed for use in a wide variety of general purpose industrial applications, such as automotive, steam transfer, refrigeration, and many others. Although Hyperline V is also suitable for some light duty process fluid applications, Corroflon or Bioflex (both available from OPW market) is usually preferred due to the thicker PTFE wall and helical reinforcement.

Hyperline V is very flexible and kink resistant, but has a convoluted bore which limits fluid flow rates, and reduces internal "cleanability". It also requires de-convoluting before assembly.

Hyperline FX is the preferred alternative which solves these problems without reducing the flexibility too much.



Hyperline V is available in the following grades:

Hyperline V, TO - Natural PTFE Tube Only, no braid.

Hyperline V, AS, - Antistatic Black PTFE Tube Only, no braid.

Hyperline V, SS - Natural PTFE Tube, external 304 Stainless Steel Braid.

Hyperline V, AS, SS - Antistatic PTFE Tube, external 304 Stainless Steel Braid.

Hyperline V, PB - To special order, Hyperline V can also be supplied with an orange polypropylene yarn braid (Hyperline V, PB or Hyperline V, AS, PB).

Hyperline V, AS, PB - Special order

NOTE: Prolonged exposure to sunlight eventually results in UV degradation of PB braid. Seamless extruded and convoluted natural or antistatic PTFE tube, with a Stainless Steel 304 (SS) wire braid, or an orange Polypropylene Braid (to special order).

Temperature Rating

For Stainless Steel Braided (SS) hose, the temperature rating is from -70° to +260°C, but the Maximum Working Pressure (MWP) must be reduced by 1% for each 1°C above 130°C. For Polypropylene Braided (PB) hose, the maximum working pressure reduces by 5% for each °C above 80°C. Maximum Working Temperature = 100°C.

Pressure Resistance

The Pressure Ratings for SS grades are as listed and adjusted for temperature. Pressure ratings for PB hose grades are 50% of those for SS hose grades. Tube Only (TO) grades can only be used at pressures up to 2 Bar (30 psi).

Vacuum Resistance

SS braided Hyperline V hoses are fully vacuum resistant up to 130°C (266°F).

Flow Rates

Turbulent flow always occurs in hoses with rough or convoluted internal surfaces. This reduces flow rates, and can cause a whistling noise if gases are passed at high flow rates. Use Hyperline FX to solve such problems if necessary.

ASSEMBLY

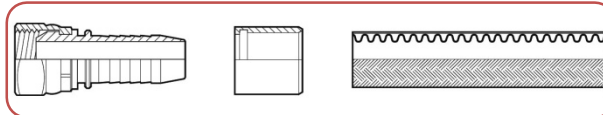
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Catalogues:

Ducting hoses
Industrial hoses
Fittings
Safety couplings
Chemical resistance table ducting hoses
Chemical resistance table hoses

Hyperline V can be assembled to hydraulic hose fittings in the normal way after the convolutions have been partially flattened out by means of a special tool, called a Visiflon Opening Tool, available from OPW market. This tool screws in to the convolutions, either manually or mounted on to an electric motor, and then screws out to leave the convolutions flatter, and able to accept the insertion of a hydraulic fitting.



APPLICATIONS

- Automotive and General Industrial - where good flexibility is required for larger bore hose applications.
- Hyperline FX is preferred to Hyperline V in all applications except those where the superior flexibility and kink resistance of Hyperline V is required.

HYPERLINE V Size Range and Specifications

Number	DN	Type	I.D.	O.D.	wall	R min	WP	BP	Weight	Length
	inch									
71-110-06-01-02	3/8"	SS	6.30	11.94	0.63	20	60	240	0.13	40
		AS,SS	6.30	11.94	0.63	20	60	240	0.13	40
71-100-08-01-02	1/2"	SS	9.50	15.24	0.63	25	47	190	0.20	40
71-110-08-01-02		AS,SS	9.50	15.24	0.63	25	47	190	0.20	40
71-100-10-01-02	5/8"	SS	12.70	21.21	0.76	40	40	160	0.25	30
71-110-10-01-02		AS,SS	12.70	21.21	0.76	40	40	160	0.25	30
71-100-12-01-02	3/4"	SS	16.00	22.71	0.89	50	32	130	0.34	30
71-110-12-01-02		AS,SS	16.00	22.71	0.89	50	32	130	0.34	30
71-100-16-01-02	1"	SS	22.20	30.58	1.00	63	26	105	0.47	25
71-110-16-01-02		AS,SS	22.20	30.58	1.00	63	26	105	0.47	25
71-100-20-01-02	1 1/4"	SS	28.20	36.07	1.00	70	25	100	0.63	20
71-110-20-01-02		AS,SS	28.20	36.07	1.00	70	25	100	0.63	20
71-100-24-01-02	1 1/2"	SS	35.00	46.99	1.25	115	20	85	0.90	10
71-110-24-01-02		AS,SS	35.00	46.99	1.25	115	20	85	0.90	10
71-100-32-01-02	2"	SS	47.00	61.01	1.25	130	15	70	1.25	10
71-110-32-01-02		AS,SS	47.00	61.01	1.25	130	15	70	1.25	10

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