

Data Sheet - Stainless Steel Flexible Hose - Type HM

Braided stainless steel hose have a high physical strength, enabling them to operate at significant high pressures. they are fire and corrosion resistant, and suitable for elevated temperatures.

HM hose assemblies comprise of an inner corrugated core, formed from thin wall stainless steel tube. The core is covered by one or two layers of interwoven braid, which is welded at each end with the fittings. This enhances the pressure bearing capability of the hose, and resists the tendency to elongate under internal pressure. It also allows a limited amount of mechanical protection.



Available from 6mm to 300 mm nominal bore.

Standard construction

- Hose core - annular corrugated 321 Stainless Steel
- Convolutions - Standard Pitch
- Wire braid - 304 Stainless Steel

Optional

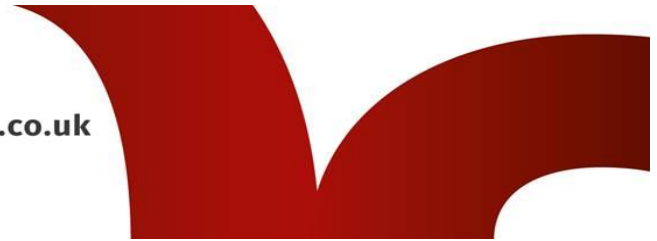
- Hose core - 316 stainless steel
- Convolutions - Close Pitch
- Wire overbraid - 316 Stainless Steel
- Outer sleeve - White or black PVC Coating



End fittings

- Fixed Male / Fixed Female
- Fixed Flange / Swivel Flange
- Weld End / Standpipe
- Camlocks
- Quick release couplings
- Many more options available





Temperature Correction Factor

When a hose is working at elevated temperatures the working pressure given below should be multiplied by a correction factor to give the pressure rating at temperature.

Temp. (°C)	(°F)	Correction Factor
-200 to +20	-392 to +68	1.0
50	122	0.95
100	212	0.83
150	302	0.75
200	392	0.69
250	482	0.65
300	572	0.61
350	662	0.58
400	752	0.56
450	842	0.54
500	932	0.53
550	1022	0.52
600	1112	0.34
650	1202	0.19
700	1292	0.10

Bending

The minimum bend radii listed below should be adhered to. Where tighter bends are needed, elbows should be used.

NOMINAL SIZE DN		SINGLE BRAID					DOUBLE BRAID				
		Max. working pressure	Test pressure	Burst pressure	Static bend radius	Dynamic bend radius	Max. working pressure	Test pressure	Burst pressure	Static bend radius	Dynamic bend radius
ins	mm	bar	bar	bar	mm	mm	bar	bar	bar	mm	mm
¼"	6	100	150	400	25	100	160	240	640	25	100
3/8"	10	90	135	360	40	150	144	216	576	40	150
½"	12	80	120	320	50	200	128	192	512	50	200
5/8"	16	70	105	280	50	200	112	168	448	50	200
¾"	20	64	96	256	70	200	102	153	408	70	200
1"	25	50	75	200	90	200	80	120	320	90	200
1¼"	32	40	60	160	110	250	64	96	256	110	250
1½"	40	32	48	128	130	250	48	72	192	130	250
2"	50	28	42	112	175	350	44	66	176	175	350
2½"	65	24	36	96	200	410	38	57	152	200	410
3"	80	18	27	72	205	450	28	42	112	205	450
4"	100	16	24	64	230	560	26	39	104	230	560
5"	125	12	18	48	280	660	20	30	80	280	660
6"	150	10	15	40	320	815	16	24	64	320	815
8"	200	8	12	32	435	1015	12	18	48	435	1015