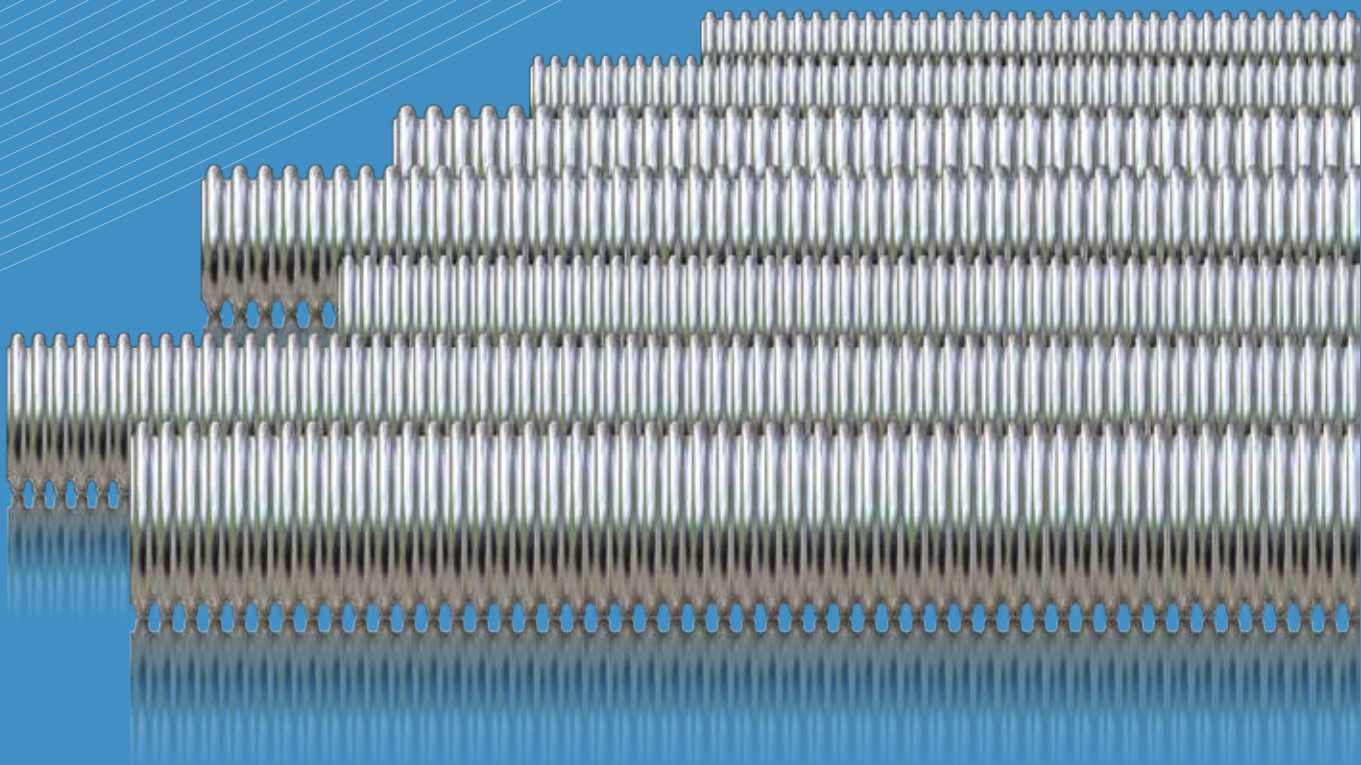


»»»[®] ARSEN

FLEXIBLE METAL HOSES
WITHOUT BRADING



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GENERAL EXPLANATIONS



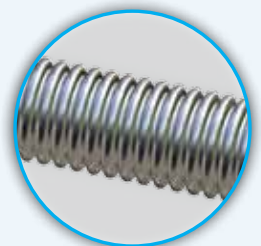
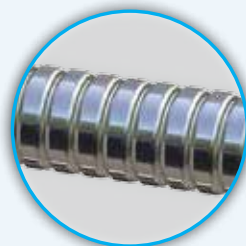
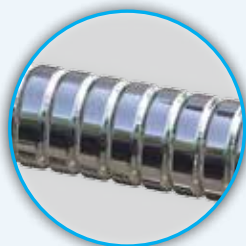
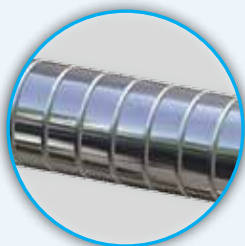
Flexible metal hoses are produced by welding a 0.15 – 0.40 mm thick stainless steel strip longitudinally under protective gas from inside and outside and then forming either mechanically or hydraulically. Mechanical forming is a four step process as can be seen below. Process called forming is necessary to shape thin sheet without being harmed. It also makes it possible to produce metal hoses in any profile without extra costs for molds.

The biggest advantage of metal hoses against stripwound hoses which have lack of 100% leaktightness but more flexibility and less production costs is that corrugated metal hoses have 100% leaktightness.

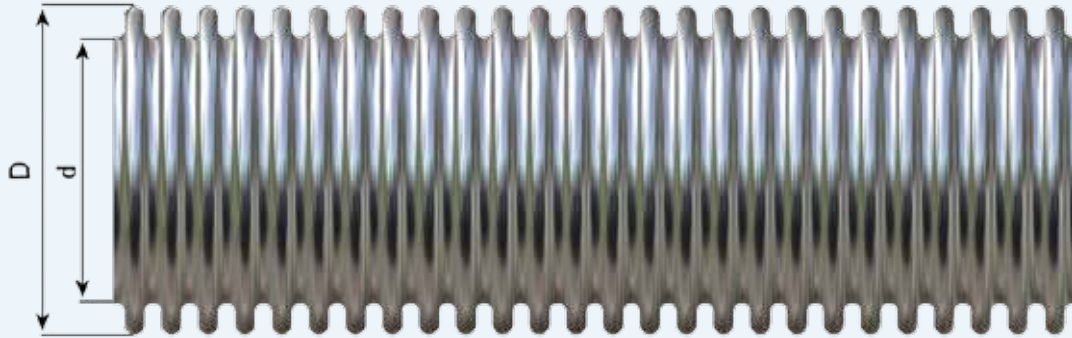
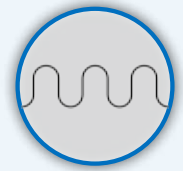
Stainless steel sheet with its resistance against high temperature (-270 °C +600 °C) and corrosion together with flexible metal hoses' high flexibility and flexing free of constrictions are turned into reliable and serviceable hoses used widely many areas of applications.

Under protection of braiding in variety of thicknesses and profiles in order to increase their resistance against pressure and external influences and with additional protective measures for moving systems, metal hoses are now an essential requirement for any type installations in industry. One of the reasons of widely usage of metal hoses is that they remove difficulties of inflexible, fixed connections.

All types of flexible metal hoses are produced and tested according to TS EN ISO 10380, and all hoses are subject to 100 % leakage test after first production and also after welding their fittings before shipping.



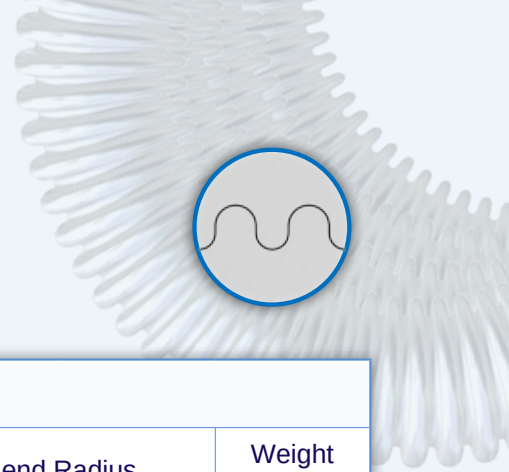
STANDARD PITCH METAL HOSES



Dimensions and Operating Conditions

DN		Inner Diameter	Outer Diameter	d D	Working Pressure	Bend Radius		Weight (±) %10
(mm)	(inch)	d (mm)	D (mm)	tol. (±)	20 °C (bar)	Static	Dynamic	(kg/m)
006	1/4"	6.1	9.6	0.20	25	15	75	0.06
008	5/16"	8.4	12.2	0.20	16	16	120	0.08
010	3/8"	10.1	14.3	0.20	10	18	130	0.10
012	1/2"	12.2	16.8	0.20	9.0	20	135	0.11
016	5/8"	16.2	21.8	0.20	7.0	30	145	0.17
020	3/4"	20.3	26.6	0.20	4.0	35	160	0.22
025	1"	25.4	32.2	0.30	3.0	40	185	0.33
032	1 1/4"	34.3	41.1	0.30	2.5	50	250	0.48
040	1 1/2"	40.0	49.6	0.30	2.5	60	290	0.57
050	2"	50.5	60.5	0.40	1.6	70	330	0.70
065	2 1/2"	65.5	80.0	0.60	1.5	115	400	1.05
080	3"	80.4	96.0	0.60	1.5	125	500	1.10
100	4"	100.5	117.0	0.85	1.2	165	600	1.40
125	5"	125.2	149.5	0.85	0.9	210	690	2.65
150	6"	150.6	175.5	1.50	0.9	240	830	3.25
200	8"	200.0	227.0	2.50	0.7	340	1.040	4.90
250	10"	250.0	278.0	4.00	0.5	435	1.200	7.60
300	12"	300.0	337.0	6.00	0.3	525	1.350	11.00

WIDE PITCH METAL HOSES



Dimensions and Operating Conditions

DN		Inner Diameter	Outer Diameter	d D	Working Pressure	Bend Radius		Weight (±) %10
(mm)	(inch)	d (mm)	D (mm)	tol. (±)	20 °C (bar)	Static	Dynamic	(kg/m)
006	1/4"	6.3	9.6	0.20	40	11	It is not appropriate for dynamic usage.	0.05
008	5/16"	8.4	12.2	0.20	25	15		0.06
010	3/8"	10.1	14.2	0.20	16	17		0.08
012	1/2"	12.4	16.7	0.20	16	19		0.09
016	5/8"	16.6	22.0	0.20	10	25		0.14
020	3/4"	20.4	26.0	0.20	10	30		0.16
025	1"	25.6	31.8	0.30	8.0	35		0.24
032	1 1/4"	34.0	40.7	0.30	4.0	40		0.37
040	1 1/2"	40.0	49.0	0.30	4.0	50		0.54
050	2"	50.8	59.8	0.40	3.0	60		0.60

CLOSE PITCH METAL HOSES

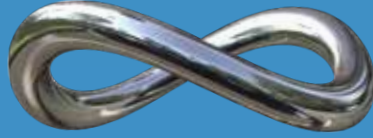


Dimensions and Operating Conditions

DN		Inner Diameter	Outer Diameter	d D	Working Pressure	Bend Radius		Weight (±) %10
(mm)	(inch)	d (mm)	D (mm)	tol. (±)	20 °C (bar)	Static	Dynamic	(kg/m)
006	1/4"	6.1	9.8	0.20	16	20	70	0.09
008	5/16"	8.2	12.4	0.20	10	25	90	0.10
010	3/8"	10.1	14.5	0.20	8.0	30	100	0.13
012	1/2"	12.1	17.0	0.20	7.0	35	110	0.15
016	5/8"	16.2	22.0	0.20	5.0	40	120	0.23
020	3/4"	20.3	26.9	0.20	4.0	50	130	0.30
025	1"	25.2	32.5	0.30	2.5	60	150	0.42
032	1 1/4"	33.7	41.2	0.30	2.0	70	230	0.60
040	1 1/2"	40.0	49.6	0.30	1.5	80	240	0.85
050	2"	49.7	60.5	0.40	1.0	100	260	0.99

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