FLEXIBLES AND CONNECTIONS
FROM
OM INDUSTRIES

Stainless Steel Hose Assemblies

Strip Wound Interlock Hoses

Stainless Steel Corrugated Hoses

Hose Fittings

Pump Connectors

OM INDUSTRIES

An ISO9001:2008 Certified Company

Manufacturers & Exporter of S.S. Corrugated Hoses , Hoses Assembly & Fittings

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INTRODUCTION

We are one of the professionally managed unit for manufacturing of Stainless Steel Flexible Hose, Braiding & Hose Assemblies & Hoses Fittings. A large variety of Stainless Steel Flexible Hoses & Hose Assemblies, manufacture in austenitic steel are, AISI 321, 316, 316L, 304 grades conforming to international quality standards.

HOSES

Stainless Steel corrugated flexible hoses are offered from 1/4”NB to10” NB .

BRAID

The braid is normally manufactured in SS 304 wire. However SS 316 braid can also be manufactured. We also supply wire braid in different configurations as per customer specifications.

ASSEMBLIES & WELDING

Our Hose assemblies are engineered to perfection in flexibility, strength and reliability. We can provide a corrugated stainless steel hose assembly that will meet your most demanding technical specification. The end connections are TIG welded to hose. Hose assemblies can be supplied as per customer design and specifications.

Hose Technical Data

Nominal size N.B.	Without braid pressure in kg/cm²		With Single braid pressure in kg/cm²		With double braid pressure in kg/cm²		Min. Bend Radius	
	Max. working (design)	Test	Max. working (design)	Test	Max. working (design)	Test	Static m.m.	Flexing m.m.
6	4	6	100	150	160	240	25	100
10	4	6	90	135	144	216	40	150
12	3	4.5	80	120	128	192	50	200
16	3	4.5	70	105	112	168	50	200
20	2	3	64	96	102	153	70	200
25	2	3	50	75	80	120	90	200
32	1.5	2.3	40	60	64	96	110	200
40	1.5	2.3	30	45	48	72	130	250
50	1	1.5	28	42	44	66	175	350
65	1	1.5	24	36	38	57	200	410
80	1	1.5	18	27	28	42	205	450
100	0.8	1.2	16	24	26	39	230	560
125	0.6	0.9	12	18	20	30	280	660
150	0.6	0.9	10	15	16	24	320	815
200	0.5	0.75	8	12	12	18	435	1015

Note :

» The above Technical details are subject to change without notice.

» We can also supply the above Hoses for higher pressures.

» The above values apply only to Braided Hoses and Assemblies at ambient temperature.

VARIOUS TYPES OF END CONNECTIONS

FIXED MALE (HEXAGON)

FEMALE UNION NUT/NIPPLE

FIXED FEMALE HEXAGON

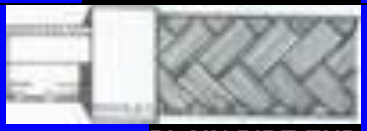
FULL MALE UNION

90°FEMALE SWIVEL ELBOW

FULL FEMALE UNION

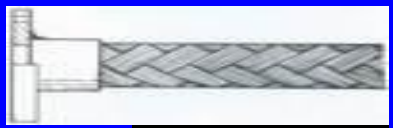
THREADED PIPE END

WELDING STUB



PLAIN PIPE END

ROTATING FLANGE WITH STUB END



FIXED FLANGE (RF)

CAMLOCK COUPLING

Strip Wound Interlock Hoses

Interlocked metal hose is also referred to as strip wound hose and consists of successive turns of profiled strip, with the edges of adjacent turns interlocked. Interlock Hoses are made with a packing so that filament of cotton, asbestos, rubber or metals like copper can be fed into the interlock to make it pressure tight. It is mostly used as a protective/conduit casing. It is also used as a liner inside the hose based on the profile formation.

Locking methods are called :-

» Square lock
» Square lock with packing
» Double lock
» Double lock with packing

Double Interlock Hoses

Square lock with out packing

Applications :-

» As armour
» For telephone & electrical cables
» Control instruments & thermo couples
» For conveying non penetrating fluids such as tar, naptha, furnace oil.

PRODUCT SPECIFICATION

S. No.	Size	ID (mm)	OD (mm)	Min. Bend Radius
1.	28	28	32	150
2.	30	30	34	155
3.	32	32	36	170
4.	35	35	39	185
5.	40	40	45	210
6.	45	45	50	255
7.	50	50	55	255
8.	55	55	60	265
9.	60	60	66	275
10.	75	75	82	325
11.	80	80	88	330
12.	85	85	92	340
13.	90	90	98	350
14.	100	100	106	475
15.	150	150	162	650

QUALITY

We have complete in-house testing facilities for various types of tests, as per international standards for our range of supplies.

Every single hose-assembly is tested hydraulically at 1.5 times working pressure before dispatching. Pneumatic testing is also carried out whenever necessary. All raw material used in the manufacture of hoses, braiding and end-connections undergo inspection by trained & experienced engineers to ensure highest quality standards.

TESTING & CERTIFICATION

All unbraided Hoses are subjected to leak detection test using compressed air.
All assemblies are checked for dimensional accuracy and pressure tested.
Test certificates for pressure tests carried out will be provided.
Test stipulated by BS 6501: Part-1are conducted periodically.
Raw material test certificates showing the physical and comical properties will be furnished on request.

ADVENTAGE OF FLEXIBLE METAL HOSE

- High physical strength combined with light weight
- Suitable for wide temperature range (-270° C to + 700°C).
- Good corrosion resistance. Resistance to fire, moisture, abrasion and penetration.
- Absorbs vibration and noise from pumps, compressors, engines etc.
- Compensates for intermittent or constant movement.
- Compensates for thermal expansion of contraction of piping.
- Corrects problems of misalignment.
- A flexible and quick alternative for piping in difficult locations.

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