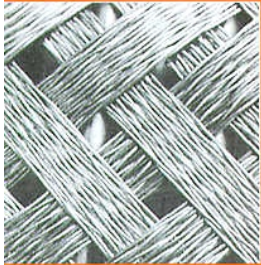


INTERFLEX

STAINLESS
STEEL FLEXIBLE
HOSE ASSEMBLIES



Since 1987, Interflex Hose & Bellows Ltd. has specialised in the manufacture of flexible stainless steel hose assemblies, and has established a name for quick, reliable service with competitive pricing, and an emphasis on high quality.



Our sales office, based at our Shropshire factory, will be pleased to offer you, from initial design through to installation, the expertise

that members of our team have gained from being in this field for many years, whatever the inquiry.

APPLICATIONS

The success of the flexible metallic hose assembly may be attributed to the fact that there is a hose suitable for almost any application. Interflex manufacture and supply a comprehensive range of corrugated stainless steel hose products covering a wide range of uses - whatever the requirements of flexibility, media, environment, temperature or pressure.

In fact, wherever you require a hose for vibration, misalignment, lateral movement, protection, thermal expansion, or corrosive or caustic chemicals, we are confident that we can provide an assembly that is designed to cope with your operating conditions with utmost reliability, however arduous or demanding.

ADVANTAGES

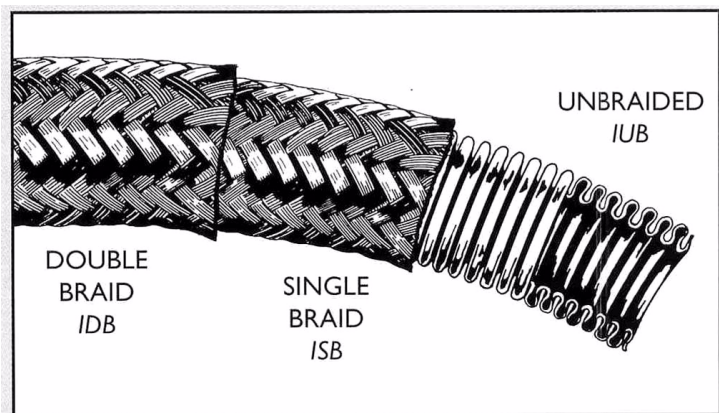
- Vacuum proof
- Long - lasting
- Flexible
- Corrosion resistant
- Fire resistant
- High physical strength
- Resistant to penetration and damage
- High safety factor
- Excellent at temperature & pressure extremes

STAINLESS STEEL HOSE & BRAID

NOMINAL BORE in mm	HOSE TYPE	MINIMUM BEND RADIUS		MAXIMUM WORKING PRESSURE @ 20°C		MAXIMUM TEST PRESSURE @ 20°C	
		STATIC mm	CONSTANT FLEXING mm	BAR	PSI	BAR	PSI
1/4 6	IUB	16	100	10	145	15	218
	ISB	25	100	142	2060	213	3090
	IDB	25	100	255	3700	383	5550
3/8 10	IUB	22	150	5.5	80	8.3	120
	ISB	40	150	104	1510	156	2265
	IDB	40	150	187	2710	280	4065
1/2 12	IUB	24	150	5.5	80	8.3	120
	ISB	50	150	91.5	1325	137	1988
	IDB	50	150	165	2400	248	3600
3/4 20	IUB	30	200	4.1	60	6.2	90
	ISB	70	200	69.5	1010	104	1515
	IDB	70	200	125	1810	188	2715
1 25	IUB	44	200	4.1	60	6.2	90
	ISB	90	200	70.6	1025	106	1538
	IDB	90	200	120	1740	180	2610
1 1/4 32	IUB	55	250	3.4	50	5.1	75
	ISB	108	250	45	653	67.5	980
	IDB	108	250	80	1160	120	1740
1 1/2 40	IUB	70	250	2.4	35	3.6	53
	ISB	127	250	41	595	61.5	893
	IDB	127	250	71	1030	107	1545
2 50	IUB	90	350	1.0	15	1.5	23
	ISB	175	350	30.5	440	45.8	660
	IDB	175	350	50	725	75	1088
2 1/2 65	IUB	110	410	1.0	15	1.5	23
	ISB	200	410	25.5	370	38.3	555
	IDB	200	410	46	667	69	1000
3 80	IUB	130	450	1.0	15	1.5	23
	ISB	200	450	19.2	280	28.8	420
	IDB	200	450	34	493	51	740
3 1/2 90	IUB	175	510	0.75	11	1.13	17
	ISB	220	510	20.6	300	30.9	450
	IDB	220	510	27	390	40.5	585
4 100	IUB	200	560	0.69	10	1.04	15
	ISB	230	560	18.4	267	27.6	400
	IDB	230	560	33	480	49.5	720
5 125	IUB	250	710	0.69	10	1.04	15
	ISB	280	710	11.5	167	17.3	250
	IDB	280	710	20.7	300	31	450
6 150	IUB	290	815	0.55	8	0.83	12
	ISB	320	815	11.2	162	16.8	243
	IDB	320	815	20	290	30	435
8 200	IUB	400	1015	0.31	4.5	0.46	6.8
	ISB	435	1015	7	102	10.5	153
	IDB	435	1015	10	145	15	218
10 250	IUB	490	1220	0.25	3.6	0.37	5.4
	ISB	560	1220	9.6	140	14.4	210
	IDB	560	1220	17.6	255	26.4	382

Minimum Burst Pressure = 4 x Maximum Working Pressure.
Maximum pressures also dependant of types of fitting used.

1 bar = 14.50 psi = 0.987 atm = 100 kPa = 1.02 kg/cm²



QUALITY

Paramount importance is given by Interflex Hose & Bellows to the quality of our product and service, and our ability to meet precise customer specifications.

Our commitment to the highest possible standards means that all Interflex assemblies can be supplied, when requested, with the following documentation:

- Material Test Certification (including to DIN 50 049 3.1B).
- Hydraulic Pressure Test Certificates (normally to 1.5 times the design pressure).
- Certificates of Conformity.
- Certificates of Origin.
- Technical Drawings.

All our assemblies are manufactured generally in conformance with BS6501 Pt.1, and with quality assurance in line with **BS5750**. We can supply complete hose assemblies specified as requiring quality assurance to BS669, ISO9001, MOD DEFSTAN 05-91, Lloyd's standards, etc.

Where normal industrial standards for testing and cleaning are not acceptable, Interflex offer special procedures, including packaging, to ensure the quality and cleanliness of the assembly is retained.

Additionally, our hose assemblies can be permanently etched with any required information.

CONSTRUCTION

Standard Interflex hose assemblies are made from annularly corrugated medium pressure (BS6501 Pt.1 type 'B') tube, in AISI 321 stainless steel to BS1449 Pt.2, & with outer braiding in AISI 304 stainless steel to BS1554.

When required, tube and braid can be supplied in alternative materials such as AISI 316 stainless steel, bronze, monel, etc.

General construction is of the convoluted tube, with a single or double layer of braiding to suit pressure requirements, and welded - or brazed - on end fittings.

DERATING FACTORS

OPERATING TEMPERATURE °C	321 STAINLESS STEEL	316 STAINLESS STEEL
-200 to 50	1.00	1.00
100	.96	.94
150	.92	.90
200	.88	.86
250	.84	.82
300	.80	.78
350	.76	.74
400	.72	.70
450	.66	-
500	.60	-
550	.54	-
600	.44	-

COVERINGS & LININGS

Interflex hose assemblies are offered with a number of options, such as internal PTFE or strip-wound linings; and external covers such as thermal insulating glass fibre sleeving, protective coil springs, stripwound covers or heat - shrink sleeving - for where protection from abrasion or chemicals, or where cleanliness or insulation is required.

PRESSURES

Depending upon construction, size and temperature, our hoses will operate from full vacuum up to 3700 psi. For stainless steel hose, please see our main table. Higher pressure ratings can be offered upon request.

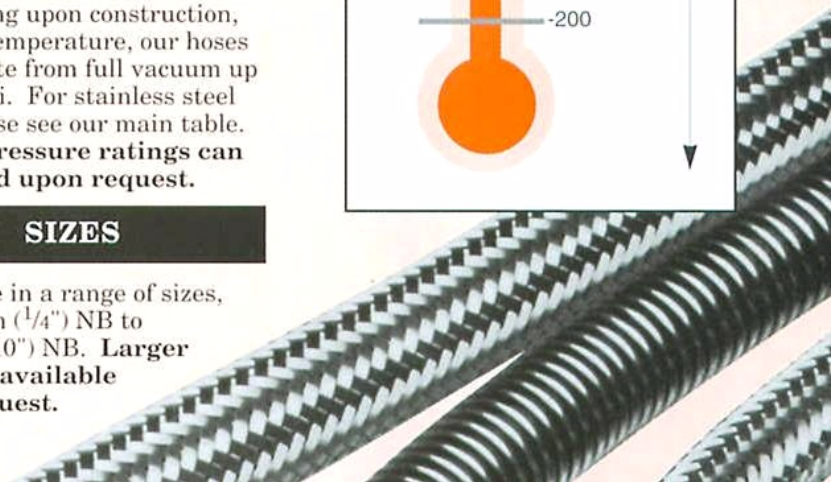
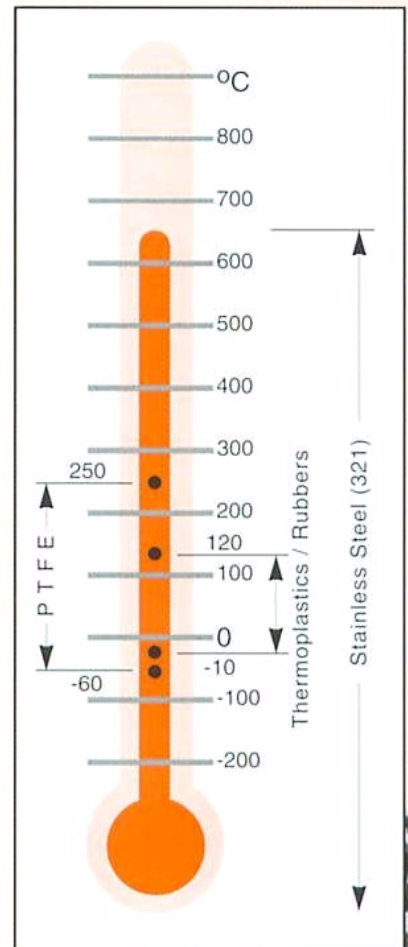
SIZES

Available in a range of sizes, from 6 mm (1/4") NB to 250 mm (10") NB. Larger sizes are available upon request.

TEMPERATURE RANGE

Depending on construction, suitable throughout sub-zero temperatures, & up to + 600 °C. For hoses operating above + 50 °C, the maximum working pressure must be multiplied by a temperature correcting factor.

The derating factors for stainless steel tube are shown left.

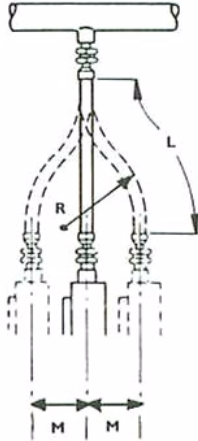


MOVEMENT

Braided hoses will only accept lateral movement according to the following formula (not for vibration) :

$$L = \sqrt{A \times R \times M}$$

- A = 10 for static offset
20 for constant flexing
L = minimum live length
(i.e. excluding end fittings & ferrules)
R = minimum bend radius
(see main table)
M = movement (small only)



TYPICAL USES

- Water and steam lines
- Pumps and compressors
- Exhaust gases ● Lub. oils
- Food processing ● Solvents, resins and corrosive media
- Cable protection ● Fuels and gas
- Tank settlement ● Suction lines

INDUSTRIES

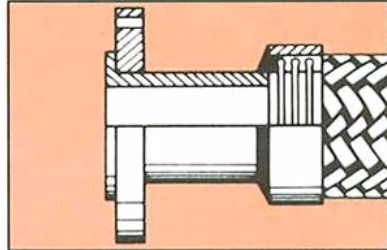
- Cryogenics and refrigeration
- Marine ● Iron and steel
- Power generation ● Defence
- Agro - and Petro-chemical
- Heating and ventilation
- Paper and pulp ● Combustion
- Automotive ● General process

END FITTINGS

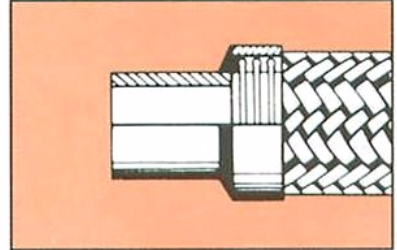
Interflex offer a full range of flanges, screwed connectors, elbows, quick release couplings, and plain tube ends, plus any kind of special fitting can be manufactured. Materials include carbon steel, all grades of stainless steel, brass, copper, and nickel alloys. **Typical end fittings are shown below.**

Screwed fittings - generally threaded BSP(T), but NPT, UNF and other threads available.

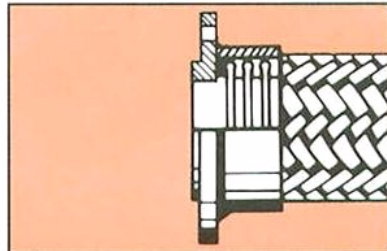
Flanges - to BS10, BS4504, ANSI / ASA, DIN and JIS standards, or as required.



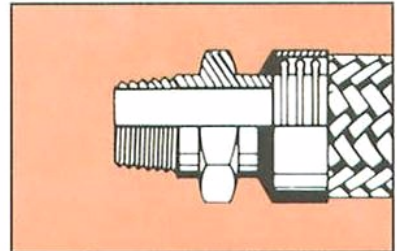
SWIVEL FLANGE



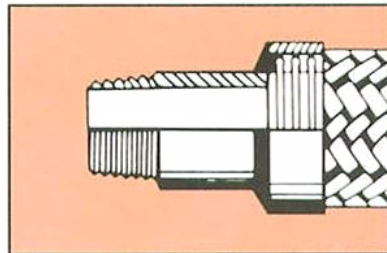
STANDPIPE / PIPE END



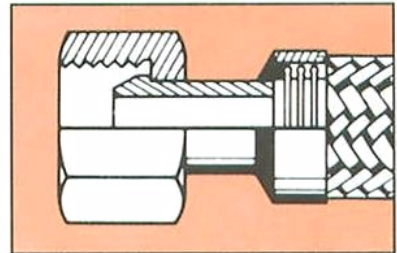
FIXED FLANGE



FIXED HEXAGON MALE



HALF BARREL MALE (WELD NIPPLE)



SWIVEL FEMALE (NUT + NIPPLE)
[CONE SEAT OR FLAT FACE]

CUSTOMERS

Our customers are found worldwide, from France and Eire in Europe, and from the Middle - to the Far-East.

They have included the Ministry of Defence, GEC, National Power, ESSO ... even Harrods !



OTHER PRODUCTS

- Sole UK & Eire Agent of MERCER RUBBER Co. Rubber Expansion Joints
- Stainless steel expansion joints ● PTFE hoses and bellows ● Galvanised and stainless steel stripwound ● Vibration eliminators
- Fabric expansion joints ● Custom-built rubber hose assemblies ● Gas cooker hoses ● Composite and thermoplastic hoses
- Flexible ducting ● Conduit & stayput hoses ● Pump connectors ● Flexible exhaust assemblies ● Jacketed hose assemblies

INTERFLEX

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