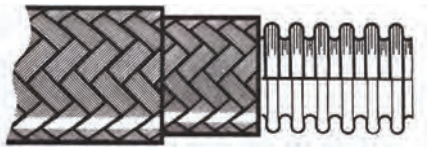
B-FLEX

Stainless Steel Annular Convoluted Hose. A close pitch hose with a high degree of flexibility suitable for most applications and normally supplied.



BRAID
Single or double layers of stainless steel braid prevent elongation of the convoluted hose and increase the working pressures that the hose can accommodate.

Double Braid ■ Single Braid ▲ Convoluted Hose Core ●

Nominal Size DN		Max Working Pressure at 20°C		Max Test Pressure at 20°C		Burst Pressure at 20°C		Minimum Bend Radius, Flexing		Nominal O.D.		Approximate Weight		Hose Ref.
mm	ins	bar	psi	bar	psi	bar	psi	mm	in	mm	in	kg/m	lbs/ft	
6	1/4	10	145	15	220	40	580	100	4.0	13.0	0.50	0.17	0.11	●
		140	2030	210	3045	560	8120	100	4.0	15.0	0.60	0.28	0.19	▲
		250	3625	375	5440	1000	14500	100	4.0	17.5	0.68	0.40	0.27	■
10	3/8	10	145	15	220	40	580	125	5.0	16.5	0.65	0.24	0.16	●
		100	1450	150	2175	400	5800	125	5.0	18.0	0.71	0.39	0.26	▲
		155	2250	233	3375	620	9000	125	5.0	20.5	0.81	0.56	0.38	■
12	1/2	5	75	7.5	110	20	290	125	5.0	21.5	0.85	0.31	0.21	●
		90	1305	135	1960	360	5220	125	5.0	23.0	0.90	0.50	0.34	▲
		131	1900	196	2850	524	7600	125	5.0	25.5	1.00	0.71	0.48	■
16	5/8	5	75	7	105	20	290	150	6.0	24.0	0.95	0.35	0.23	●
		65	940	97	1410	260	3770	150	6.0	25.5	1.00	0.55	0.37	▲
		105	1525	158	2290	420	6100	150	6.0	27.5	1.08	0.75	0.50	■
20	3/4	4	60	6	90	16	230	150	6.0	28.5	1.10	0.37	0.25	●
		55	800	83	1200	220	3200	150	6.0	31.5	1.24	0.62	0.42	▲
		93	1350	140	2030	372	5400	150	6.0	34.5	1.36	0.90	0.60	■
25	1	4	60	6	90	16	230	175	7.0	36.0	1.40	0.48	0.32	●
		48	700	72	1050	192	2780	175	7.0	37.5	1.50	0.80	0.53	▲
		77	1120	115	1670	308	4470	175	7.0	40.5	1.60	1.13	0.75	■
32	1 1/4	3	43	4.5	65	12	170	200	8.0	43.5	1.70	0.65	0.45	●
		38	550	57	825	152	2200	200	8.0	47.0	1.85	1.15	0.78	▲
		62	900	93	1350	248	3600	200	8.0	51.0	2.00	1.70	1.15	■
40	1 1/2	2	29	3	43	8	120	250	10	53.0	2.10	0.85	0.57	●
		34	490	51	740	136	1970	250	10	56.5	2.20	1.50	1.00	▲
		46	670	69	1000	184	2670	250	10	60.0	2.35	2.20	1.50	■
50	2	1	14	1.5	22	4	60	350	14	67.5	2.65	1.25	0.84	●
		31	450	46	670	124	1800	350	14	71.0	2.80	2.10	1.40	▲
		43	625	64	930	172	2500	350	14	75.0	2.95	3.05	2.05	■
65	2 1/2	1	14	1.5	22	4	60	500	20	81.5	3.20	1.55	1.03	●
		27	390	40	580	108	1570	500	20	86.5	3.40	2.65	1.78	▲
		37	540	56	810	148	2150	500	20	91.0	3.60	3.90	2.60	■
80	3	1	14	1.5	22	4	60	525	21	96	3.80	1.80	1.20	●
		24	350	36	520	96	1400	525	21	100	3.95	3.13	2.10	▲
		34	490	51	740	136	1980	525	21	105	4.10	4.55	3.05	■
100	4	0.7	10	1.1	16	3	43	625	25	124	4.90	2.40	1.60	●
		15	215	22	320	60	870	625	25	130	5.10	4.15	2.77	▲
		18	260	27	400	72	1050	625	25	136	5.35	6.05	4.05	■
125	5	0.7	10	1.1	16	3	43	750	30	154	6.05	3.90	2.60	●
		14	200	21	305	56	810	750	30	159	6.25	6.40	4.28	▲
		17	250	25	360	68	990	750	30	165	6.50	9.10	6.12	■
150	6	0.5	7	0.57	11	2	29	900	36	178	7.00	4.50	3.10	●
		9	130	14	200	36	520	900	36	183	7.20	7.85	5.25	▲
		14	200	21	305	56	810	900	36	188	7.40	11.5	7.70	■
200	8	0.3	4	0.45	6	1.2	17	1020	40	234	9.20	6.75	4.53	●
		8	120	12	170	32	460	1020	40	241	9.50	11.2	7.51	▲
		14	200	21	305	56	810	1020	40	246	9.70	16.2	10.9	■
250	10	0.25	3	0.36	5	1	14	1220	48	286	11.25	10.3	6.91	●
		6	90	9	130	24	350	1220	48	290	11.40	15.3	10.3	▲
		10	145	15	220	40	580	1220	48	295	11.60	20.8	14.0	■

1 WORKING PRESSURE

Working pressures are quoted for fluid temperatures at 20°C. Higher fluid temperatures will result in a lower working pressure. These modified working pressures can be calculated using the TEMPERATURE CORRECTION CHART.

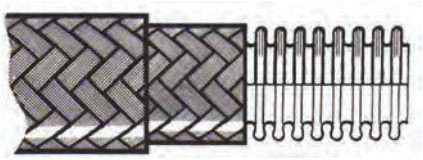
2 TEST PRESSURE

To avoid distortion of the convoluted form of the hose, the maximum test pressures quoted in this literature **must not be exceeded.** All hoses are subjected to a test of one and a half times the customer's stated working pressure (if working pressure is not stated then ADT FLEXIBLES Standard Test Procedures will apply).

3 HOSE AND BRAID MATERIALS

B & C FLEX hose are normally supplied in stainless steel Grade 321 S31 (Werkstoff Nr: 1.4541). Braid is normally supplied in Grade 304L (Werkstoff Nr: 1.4306). Available for specific applications are hose and braid in Grade 316L (Werkstoff Nr: 1.4404).

C-FLEX



Stainless Steel Annular Convoluted Hose. A very close pitch hose for an exceptionally high degree of flexibility and high working pressures. Suitable for exacting areas of flexibility and vibration.

BRAID
Single or double layers of stainless steel braid prevent elongation of the convoluted hose and increase the working pressures that the hose can accommodate.

Double Braid ■ | Single Braid ▲ | Convoluted Hose Core ●

Nominal Size DN		Max Working Pressure at 20°C		Max Test Pressure at 20°C		Burst Pressure at 20°C		Minimum Bend Radius, Flexing		Nominal O.D.		Approximate Weight		Hose Ref.
mm	in	bar	psi	bar	psi	bar	psi	mm	Ins	mm	Ins	Kg/m	lb/ft	
6	1/4	10	145	15	220	40	580	75	3.0	13.0	0.50	0.22	0.15	●
		160	2320	240	3480	640	9280	75	3.0	15.0	0.60	0.33	0.22	▲
		275	3990	412	5970	1100	15950	75	3.0	17.5	0.68	0.45	0.30	■
10	3/8	10	145	15	220	40	580	90	3.5	16.5	0.65	0.33	0.22	●
		138	2000	207	3000	552	8000	90	3.5	18.0	0.71	0.48	0.32	▲
		172	2500	258	3750	690	10000	90	3.5	20.5	0.81	0.65	0.44	■
12	1/2	5	75	7.5	110	20	290	100	4.0	21.5	0.85	0.40	0.27	●
		103	1500	154	2230	412	5980	100	4.0	23.0	0.90	0.60	0.40	▲
		155	2250	223	3375	620	9000	100	4.0	25.5	1.00	0.80	0.54	■
20	3/4	4	60	6	90	16	230	115	4.5	28.5	1.10	0.50	0.34	●
		62	900	93	1350	248	3600	115	4.5	31.5	1.24	0.75	0.50	▲
		110	1600	165	2400	440	6400	115	4.5	34.5	1.36	1.00	0.67	■
25	1	4	60	6	90	16	230	125	5.0	36.0	1.40	0.65	0.44	●
		52	750	78	1130	208	3020	125	5.0	37.5	1.50	0.95	0.65	▲
		90	1305	135	1960	360	5220	125	5.0	40.5	1.60	1.25	0.84	■
32	1 1/4	3	43	4.5	65	12	170	150	6.0	43.5	1.70	0.90	0.60	●
		42	610	63	910	168	2440	150	6.0	47.0	1.85	1.40	0.94	▲
		69	1000	103	1500	276	4000	150	6.0	51.0	2.00	1.95	1.30	■
40	1 1/2	2	29	3	43	8	120	200	8.0	53.0	2.10	1.10	0.74	●
		38	550	57	830	152	2200	200	8.0	56.5	2.20	1.75	1.17	▲
		52	750	78	1130	208	3000	200	8.0	60.0	2.35	2.45	1.64	■
50	2	1	14	1.5	22	4	60	275	11	67.5	2.65	1.60	1.07	●
		34	490	51	740	136	1970	275	11	71.0	2.80	2.45	1.64	▲
		48	700	72	1050	192	2780	275	11	75.0	2.95	3.40	2.28	■
65	2 1/2	1	14	1.5	22	4	60	350	14	81.5	3.20	1.90	1.27	●
		31	450	46	670	124	1800	350	14	86.5	3.40	3.00	2.00	▲
		41	595	61	890	164	2380	350	14	91.0	3.60	4.20	2.80	■
80	3	1	14	1.5	22	4	60	400	16	96	3.80	2.25	1.50	●
		27	390	40	580	108	1570	400	16	100	3.95	3.55	2.35	▲
		38	550	57	830	152	2200	400	16	105	4.10	5.00	3.35	■
100	4	0.7	10	1.1	16	3	43	500	20	124	4.90	3.10	2.08	●
		17	250	25	360	68	990	500	20	130	5.10	4.80	3.20	▲
		20	290	30	440	80	1160	500	20	136	5.35	6.70	4.50	■
125	5	0.7	10	1.1	16	3	43	660	26	154	6.05	5.00	3.35	●
		16	230	24	350	64	920	660	26	159	6.25	7.50	5.00	▲
		19	280	28	410	76	1100	660	26	165	6.50	10.2	6.80	■
150	6	0.5	7	0.75	11	2	29	760	30	178	7.00	5.80	3.90	●
		10	145	15	220	40	580	760	30	183	7.20	9.10	6.10	▲
		15	220	22	320	60	870	760	30	188	7.40	12.7	8.50	■

4 MATERIALS TESTING

All hose assemblies are hydraulically tested before being dispatched. Pneumatic testing by air or gas under water will be carried out where necessary. **TEST and MATERIALS CERTIFICATES** will be supplied when specifically requested at the time of ordering.

5 HOSE END FITTINGS

A comprehensive range of flanges, screwed connectors, tube ends or individually designed fittings can be welded to the hose by an Argon arc process.

NB: Hose and braid only, can be supplied to customers having the necessary equipment.

6 MINIMUM BEND RADII

Dimensions given are for flexing applications. For static conditions 60% of this value should be used

TEMPERATURE CORRECTION

See page 12 for details of these important parameters.