

## 6. CORRUGATED METAL HOSES

### HOSE ASSORTMENT

GOODALL® MetalVisor® hoses represent a new generation of metal hose and fitting products. The wall thickness and the consistency of the strip, geometric dimensions, and uniformity of the corrugations and pitch result in a high flexibility and strength of the corrugated tube. GOODALL® MetalVisor® hoses have a very high braid coverage, which is designed for higher working pressures and to protect the corrugated tube.

Recognizable: You can recognize the GOODALL® MetalVisor® hose by the dark blue spiral cluster of wires in the braid.



GOODALL® offers 2 series of corrugated metal hoses:

#### **SERIES 4**

Series 4 is our standard hose that is manufactured and tested according to the requirements of the international standard ISO 10380:2012.

#### **CONSTRUCTION OF THE TUBE**

Annular corrugations; special narrow pitch

#### **HOSE MATERIAL**

standard SS 316L (w.nr. 1.4404)  
(other material on request)

#### **BRAID MATERIAL**

standard SS 304 (w.nr. 1.4301)

#### **HOSE SIZES**

1/4" to 8"

#### **SERIES 8**

Series 8 is our high pressure hose that is manufactured and tested according to the requirements of the international standard ISO 10380:2012.

#### **CONSTRUCTION OF THE TUBE**

Annular corrugations; special medium pitch

#### **HOSE MATERIAL**

standard SS 316L (w.nr. 1.4404)  
(other material on request)

#### **BRAID MATERIAL**

standard SS 304 (w.nr. 1.4301)

#### **HOSE SIZES**

3/4" to 4"

## SERIES 4

### SPECIFICATIONS

- Annularly corrugated metal hose with one or two braids
- Medium wall thickness strip
- Proprietary technology for special and narrow geometrics of the convolutions
- Excellent life cycle
- Minimum effort to bend or flex
- Very good pressure resistance

Explanation of the available GOODALL® MetalVisor® series 4 hose types:

### SERIES 4-BR-MT-XXX

#### BR = number of braids:

- 00:** Unbraided
- 01:** Single braid
- 02:** Double braid

#### MT = material corrugated tube and braid:

- GM:** AISI 321 (w.nr. 1.4541) tube and AISI 304 (w.nr. 1.4301) braid
- GC:** AISI 316L (w.nr. 1.4404) tube and AISI 304 (w.nr. 1.4301) braid

#### XXX = nominal bore size of the hose

**Example:** 1" stainless steel 316L hose with a single 304 braid: **type 4-01-GC-025**

## SERIES 8

### SPECIFICATIONS

- Annularly corrugated metal hose with one or two braids
- Heavy wall thickness strip
- Proprietary technology for special and medium geometrics of the convolutions
- Excellent life cycle
- Very high pressure resistance

Explanation of the available GOODALL® MetalVisor® series 8 hose types:

### SERIES 8-BR-MT-XXX

#### NB = number of braids:

- 00:** Unbraided
- 01:** Single braid
- 02:** Double braid

#### MT = material corrugated tube and braid:

- GM:** AISI 321 (w.nr. 1.4541) tube and AISI 304 (w.nr. 1.4301) braid
- GC:** AISI 316L (w.nr. 1.4404) tube and AISI 304 (w.nr. 1.4301) braid

#### XXX = nominal bore size of the hose

**Example:** stainless steel 316L hose with a double 304 braid: **type 8-02-GC-080**

## SERIES 4

According to ISO 10380:2012

### CONSTRUCTION

Annular corrugations; special narrow pitch

### MATERIAL HOSE

AISI SS 316L (w.nr. 1.4404)

### MATERIAL BRAID

AISI SS 304 (w.nr. 1.4301)



## SERIES 4

TYPE	NOMINAL BORE		BRAIDS #	INSIDE DIAMETER <sub>(D<sub>i</sub>)</sub>		OUTSIDE DIAMETER <sub>(D<sub>o</sub>)</sub>		BEND RADIUS MM / INCH			WORKING PRESSURE		BURST PRESSURE		WEIGHT		
	mm	inch		mm	inch	mm	inch	static	dynamic	bar	psi	bar	psi	kg/m	lb/ft		
4 - 00 - GC - 006			0			9.6	0.38	20	0.79	N/A	N/A	10	145	40	580	0.08	0.05
4 - 01 - GC - 006	DN06	1/4"	1	6.1	0.24	11.0	0.43	25	0.98	105	4.13	150	2177	600	8706	0.19	0.12
4 - 02 - GC - 006			2			12.5	0.49	25	0.98	110	4.33	225	3265	900	13059	0.31	0.21
4 - 00 - GC - 008			0			12.1	0.48	30	1.18	N/A	N/A	10	145	40	580	0.09	0.06
4 - 01 - GC - 008	DN08	5/16"	1	8.2	0.32	13.5	0.53	32	1.26	125	4.92	135	1959	540	7835	0.22	0.15
4 - 02 - GC - 008			2			15.0	0.59	32	1.26	130	5.12	203	2938	810	11753	0.38	0.26
4 - 00 - GC - 010			0			14.3	0.56	32	1.26	N/A	N/A	8	116	32	464	0.11	0.08
4 - 01 - GC - 010	DN10	3/8"	1	10.1	0.40	15.6	0.61	38	1.50	140	5.51	80	1161	320	4643	0.25	0.17
4 - 02 - GC - 010			2			17.2	0.68	38	1.50	150	5.91	120	1741	480	6965	0.41	0.27
4 - 00 - GC - 012			0			16.7	0.66	40	1.57	N/A	N/A	8	116	32	464	0.12	0.08
4 - 01 - GC - 012	DN12	1/2"	1	12.2	0.48	18.1	0.71	45	1.77	140	5.51	80	1161	320	4643	0.30	0.20
4 - 02 - GC - 012			2			20.0	0.79	45	1.77	165	6.50	120	1741	480	6965	0.44	0.29
4 - 00 - GC - 016			0			21.6	0.85	50	1.97	N/A	N/A	8	116	32	464	0.20	0.13
4 - 01 - GC - 016	DN16	5/8"	1	16.2	0.64	23.0	0.91	58	2.28	160	6.30	70	1016	280	4063	0.42	0.28
4 - 02 - GC - 016			2			24.5	0.96	58	2.28	195	7.68	105	1524	420	6094	0.66	0.44
4 - 00 - GC - 020			0			26.8	1.06	70	2.76	N/A	N/A	6	87	24	348	0.25	0.17
4 - 01 - GC - 020	DN20	3/4"	1	20.3	0.80	28.2	1.11	70	2.76	170	6.69	64	929	256	3715	0.54	0.36
4 - 02 - GC - 020			2			29.7	1.17	70	2.76	225	8.86	96	1393	384	5572	0.86	0.58
4 - 00 - GC - 025			0			32.2	1.27	80	3.15	N/A	N/A	6	87	24	348	0.35	0.24
4 - 01 - GC - 025	DN25	1"	1	25.4	1.00	33.7	1.33	85	3.35	190	7.48	50	726	200	2902	0.69	0.46
4 - 02 - GC - 025			2			35.5	1.40	85	3.35	260	10.24	75	1088	300	4353	1.05	0.71
4 - 00 - GC - 032			0			41.1	1.62	100	3.94	N/A	N/A	3	44	12	174	0.56	0.37
4 - 01 - GC - 032	DN32	1.1/4"	1	34.3	1.35	43.0	1.69	105	4.13	260	10.24	44	638	176	2554	1.17	0.79
4 - 02 - GC - 032			2			45.0	1.77	105	4.13	300	11.81	66	958	264	3831	1.80	1.21
4 - 00 - GC - 040			0			49.5	1.95	120	4.72	N/A	N/A	1	15	4	58	0.68	0.46
4 - 01 - GC - 040	DN40	1.1/2"	1	40	1.57	51.5	2.03	130	5.12	300	11.81	40	580	160	2322	1.33	0.89
4 - 02 - GC - 040			2			53.3	2.10	130	5.12	340	13.39	60	871	240	3482	2.02	1.36
4 - 00 - GC - 050			0			60.3	2.37	140	5.51	N/A	N/A	1	15	4	58	1.00	0.67
4 - 01 - GC - 050	DN50	2"	1	50.2	1.98	62.0	2.44	160	6.30	320	12.60	35	508	140	2031	1.80	1.21
4 - 02 - GC - 050			2			64.0	2.52	162	6.38	390	15.35	53	762	210	3047	2.65	1.78
4 - 00 - GC - 065			0			80.8	3.18	150	5.91	N/A	N/A	0.3	4	1.2	17	1.09	0.73
4 - 01 - GC - 065	DN65	2.1/2"	1	65.4	2.57	83.0	3.27	200	7.87	410	16.14	24	348	96	1393	2.64	1.77
4 - 02 - GC - 065			2			85.5	3.37	200	7.87	460	18.11	36	522	144	2089	4.26	2.86
4 - 00 - GC - 080			0			95.0	3.74	180	7.09	N/A	N/A	0.3	4	1.2	17	1.23	0.82
4 - 01 - GC - 080	DN80	3"	1	80.5	3.17	97.4	3.83	240	9.45	450	17.72	20	290	80	1161	2.83	1.90
4 - 02 - GC - 080			2			100.0	3.94	240	9.45	660	25.98	30	435	120	1741	4.53	3.04
4 - 00 - GC - 100			0			117.0	4.61	280	11.02	N/A	N/A	0.3	4	1.2	17	1.88	1.26
4 - 01 - GC - 100	DN100	4"	1	100	3.94	119.4	4.70	290	11.42	560	22.05	18	261	72	1045	3.80	2.55
4 - 02 - GC - 100			2			122.0	4.80	290	11.42	750	29.53	27	392	108	1567	5.78	3.88
4 - 00 - GC - 125			0			150.0	5.91	280	11.02	N/A	N/A	0.2	3	0.8	12	2.66	1.79
4 - 01 - GC - 125	DN125	5"	1	125	4.92	152.6	6.01	290	11.42	711	27.99	14	203	56	813	5.33	3.58
4 - 02 - GC - 125			2			155.4	6.12	327	12.87	712	28.03	21	305	84	1219	8.08	5.43
4 - 00 - GC - 150			0			175.0	6.89	360	14.17	N/A	N/A	0.2	3	0.8	12	3.22	2.16
4 - 01 - GC - 150	DN150	6"	1	150	5.91	178.0	7.01	400	15.75	815	32.09	13	181	50	726	6.77	4.55
4 - 02 - GC - 150			2			181.2	7.13	400	15.75	1250	49.21	19	272	75	1088	10.44	7.02
4 - 00 - GC - 200			0			225.0	8.86	500	19.69	N/A	N/A	0.2	3	0.8	12	5.15	3.46
4 - 01 - GC - 200	DN200	8"	1	197	7.76	228.0	8.98	520	20.47	1015	39.96	10	145	40	580	9.76	6.56
4 - 02 - GC - 200			2			231.2	9.10	520	20.47	1600	62.99	15	218	60	871	14.50	9.74

a. Pressures listed are designed for welding as the method of attachment. Other methods will result in different pressures. Contact GOODALL® for details.

b. The test pressure is 1.5x the maximum working pressure.

c. All data at 68°F / 20°C.