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METAL FLEXIBLE STRIP WOUND HOSES SAGRAR

Flexible metallic strip wound tubes are manufactured from a helically wound pre-formed strip, generally with right-hand lead where the turns, with or without packing, are connected together by single or double overlapping. The flexibility is obtained by sliding adjacent turns on each other.

There are three types of strip wound tubes distinguished by their principle of manufacture and sealing characteristic:

- leak proof tubes: suitable in applications for pressure (pressure tubes),
- tubes with limited leak proofness: suitable in applications with low pressures and permissible leakage loss of fluid (extraction and exhaust tubes),
- non-leak proof tubes: suitable in applications without pressure (protective tubes).

MATERIAL:

Flexible metallic tubes usually in heavy-duty conditions. In comparison with rigid tubes, they have less thickness of wall and therefore shall have superior anti-corrosive. The ideal materials to be used in the manufacture of flexible metallic tubes must meet the following requirements:

- working ability by plastic deformation,
- good strength properties,
- optimum thermal stability,
- anti-corrosive properties,
- reliability in operation.

In principle, there is no material which will ideally meet all these demands. The materials, used for our range, cover a large variety of needs occurring in practice.

Flexible metallic strip wound tubes are in a standard manner made of the following materials: stainless steel AISI 304 W.Nr. 1.4301, galvanized steel

Metal flexible hose type Sagrar Inox, Sagrar, and Sagrar with liner

Description: Double interlocked tube without sealing thread with limited leakproofness.

Types: SAGRAR and SAGRAR INOX are distinguished only by used material.

Material:

- SAGRAR: galvanized steel
- SAGRAR INOX: Stainless steel AISI 304

Sealing: Tube is made without sealing thread, but its construction ensures limited leakproofness.

Connecting elements: On request.

Diameters: DN 12 to DN 400.

Temperatures: - SAGRAR INOX: max +750 C.

-SAGRA: max +600 C (beginning of zinc oxidation is at + 230 C).

Profil Sagrar hose:



Profil Sagrar Inox hose with liner:



Sagrar Inox:



Application:

Tubes are used for conveying at low pressures and permissible leakage loss of fluid. Typical example of application is in exhausting system for motor vehicles as an elastic element. Besides, the tubes can be used as mechanical protection of rubber tubes, electrical cables etc (against strokes, squeezing etc).

SAGRAR				
diameter (mm)			Bending radius tol. ± 10%	mass tol. ± 10%
Nominal inside	Outside	Tol. for d and D		
DN=d (mm)	Rmin (mm)	kg/m	Rmin (mm)	kg/m
12	13,8	0,3	65	0,190
15	17,6	0,3	70	0,350
20	22,6	0,4	90	0,430
25	27,6	0,4	105	0,530
28	30,6	0,4	115	0,620
30	32,6	0,4	120	0,650
32	34,6	0,5	125	0,700
35	37,6	0,5	135	0,740
38	41,4	0,5	145	1,280
40	43,4	0,5	155	1,350
45	48,4	0,5	170	1,450
50	53,4	0,5	185	1,600
55	58,4	0,5	197	1,730
60	63,4	0,6	210	1,800
65	69,3	0,6	225	1,900
70	73,4	0,6	242	2,050
75	78,4	0,6	257	2,150
80	84,3	0,6	275	2,300
85	88,4	0,6	290	2,400
90	93,4	0,7	305	2,500
95	98,4	0,7	320	2,800
100	104,5	0,7	340	2,850
105	109,5	0,7	370	3,000
110	114,5	0,7	400	3,130
120	124,5	0,8	430	3,210
125	129,5	0,8	450	3,540
140	144,5	0,8	500	3,960
150	155,0	0,8	550	4,240
200	205,0	1,0	700	5,600
250	255,0	1,5	925	10,700
300	305,0	2,0	1100	12,700
400	405,0	2,0	1400	16,000

