PATHEL UK Ltd.

TECHNICAL DATA SHEETS

STAINLESS STEEL SIMPLE BRAIDED CORRUGATED HOSE

			Max. pressure at 20° (in bar)		Bend radius (in mm)			
DN (in inche)	Ø int.	Ø ext.	Working pressure	Burst pressure	Dyn.	Stat.	Weight (kg/m)	Reel (in m)
1/4	6	10,7	120	480	85	25	0,15	153
5/16	8	13,2	100	400	125	32	0,167	153
3/8	10	15,5	90	360	140	38	0,215	153
1/2	12	18	80	320	140	45	0,24	153
5/8	16	23	70	280	160	58	0,4	153
3/4	20	28,3	64	256	170	70	0,49	153
1	25	33,5	50	200	190	85	0,63	138
1"1/4	32	42,8	40	160	260	105	0,847	138
1"1/2	40	51,2	35	140	300	130	1,17	107
2	50	62,5	30	120	320	160	1,6	69
2"1/2	65	83	24	96	410	180	1,98	76
3	80	97	18	72	450	200	2,15	61
4	100	119	16	64	560	290	3,3	46
5	125	152,5	14	56	710	325	5,3	10*
6	150	177,5	12,5	50	815	380	6,6	10*
8	200	228	8	32	1015	500	9,4	10*
10	250	281	7,5	30	1270	620	13,75	10*
12	300	339,5	6	34	1525	725	25,82	10*

apave Certification ISO 9001-2015

TEMPERATURE CORRECTION COEFFICIENT

Temperature range		316L
	20	1
> 20	≤ 50	0.88
> 50	≤ 100	0.74
> 100	≤ 150	0.67
> 150	≤ 200	0.62
> 200	≤ 250	0.58
> 250	≤ 300	0.54
> 300	≤ 350	0.52
> 350	≤ 400	0.50
> 400	≤ 450	0.48
> 450	≤ 500	0.47
> 500	≤ 550	0.47

according to standard ISO10380:2012

What is the temperature adjustment factor?

The Temperature Adjustment Factor (TAF) allows you to determine the working pressure of your hose, taking into account the temperature of use. The working pressure of a corrugator will not be the same at standard room temperature (20°) as at a temperature of 300°.

> How do you calculate this working pressure with the adjustment factor?
Simply multiply the standard operating pressure indicated in the tables by the coefficient corresponding to your operating temperature range.

Example: Your DN 1» single-braid corrugator has a working pressure of 50 bar at 20°.
You want to use it at 280°. The coefficient is therefore 0.54.
The permissible operating pressure is therefore 50 x 0.54 = 27 bar

PATHEL UK Ltd.
Unit K3, Buckshaw Link
Ordnance Rd
Buckshaw Village
Chorley PR7 7EL

Tel. : 01772 283499
Mail : sales@pathel.com

www.pathel.uk