

# PTFE hoses



Convuloted PTFE hose  
Hygienic PTFE hose  
Smooth PTFE hose



# PTFE hoses

## Convolute 300-series

The PTFE hose in the 300 serie is specially suitable for food, medical and chemical industry. It can stand all types of corrosive chemicals, it does not age and it does not affect smell or taste. The PTFE hose is well suited for hard operating conditions when it also resists bending well. Its features gives it a high reliability for all industry with high hygienic demands.



## Convolute 500-series

The PTFE hose in the 500 serie have more close convolutions than many other PTFE hoses which makes it more or less indestructible when it comes to bending. It can stand all types of corrosive chemicals, it does not age and it does not affect smell or taste. The PTFE hose is well suited for hard operating conditions. It is more than well suited for installations with great strain and high demands of reliability.



## Easyflex 6510

The Easyflex 6510 is a hose which is developed for more simple installations for the industry in general. It can stand all types of corrosive chemicals, it does not age and it does not affect smell or taste. The PTFE hose is well suited for hard operating conditions.



# 300-serie Convo-Flex

## Technical description:

Specma Wiros Convo-flex is a helical PTFE hose which by its shape is self draining and is easy to clean and have good flexibility and is vacuum resistant.

## DN6-DN100

Temp. range -70C - +230C

Normally with braid of AISI 304.



## Convo-Flex options:

- With outer spiral wire for better and bigger resistance against kinking.
- Various types of fittings.
- Innertube can be flared up to the surface of the fitting.
- Alternatively PB braid.
- Also available in an antistatic execution.

## Part number:

- 317 hose without outer spiral wire and no SS braid.
- 317S hose with outer spiral wire and no SS braid.
- 316 hose without outer spiral wire and with one SS braid.
- 316S hose with outer spiral wire and with one SS braid.
- In addition PB for polymer braid and AS for antistatic.

## Technical data for art. 316/316S

(Contact us for data about 317/317S)

DN	Innerdiam.		Wall thickn. mm	Outerdiam.		Min. bend radius mm	Max. Working pressure bar	Min. Burst pressure bar	Vacuum mbar 20°C	Weight gr/m
	Nom mm	Tol +/- mm		Min mm	Max mm					
3/4"	19,00	1,00	1,00	26,40	1,00	55,0	73	290	887/947	390/540
1"	25,40	1,25	1,2	35,00	1,25	85,0	50	200	887/947	540/890
1 1/4"	31,00	1,25	1,2	41,00	1,25	100,0	45	180	887/947	680/1180
1 1/2"	35,50	1,50	1,6	45,00	1,50	120,0	45	180	887/947	1110/1710
2"	47,50	2,00	1,6	59,50	2,00	135,0	34	135	887/947	1650/2450
2 1/2"	60,25	2,50	1,6	76,25	2,50	230,0	15	60	887/947	1710/2610
3"	74,00	3,00	1,5	92,00	3,00	260,0	8	35	887/947	3310/4710

# 500-series

## Technical description

Convolute PTFE hose type "Tape Wrapped" that manages an extremely small bend radius and with a long lifecycle when it comes to flexing.

**526**

Innertube of PTFE. One SS braid.

**527**

As 526 but antistatic.



**528**

As 526 but in addition with outer spiral wire to be vacuum resistant.

**529**

As 528 but antistatic

## Temperature range:

Data is valid for temperatures -54°C up to 204°C.

Type 526, 527								
Hose DN	ID mm	Tol +/-	OD mm	Tol +/-	Working pressure bar	Min Burst pressure bar	Min bend radius	Weight Kg/m
10	9,65	0,60	15,00	0,60	69	276	25	0,20
13	13,45	0,80	19,80	0,80	86	345	38	0,30
20	19,85	0,80	26,87	0,80	75	303	64	0,49
25	25,88	0,80	32,90	0,80	69	276	76	0,64
32	32,30	0,80	39,78	0,80	69	276	89	0,79
40	38,85	0,80	45,70	0,80	51	207	114	0,97
50	51,18	0,80	58,27	0,80	34	138	133	1,10



# 6510 Easyflex

## Technical description:

Convolutd inerttube of PTFE with a stainless steel wire braid in AISI304 material.

Temp. Range -50°C up to + 250°C

A large number of different fittings can be used.

## 6510 Easyflex white PTFE

Art no	Diameter	Innerdiameter		Wall thickness mm	Outer dia. mm		Min. bend radius mm	Max working pressure bar	Min. burst pressure bar
	Inch	Nom	Tol +/-mm		Nom	Tol +/-mm			
6510-06	¼	7,10	0,50	0,76	12,30	0,50	18	129	517
6510-10	3/8	9,50	0,60	0,76	15,25	0,60	20	103	414
6510-13	½	12,83	0,60	0,89	18,80	0,60	25	77	310
6510-16	5/8	15,88	0,60	0,89	22,10	0,60	51	62	248
6510-20	¾	19,05	0,70	1,02	24,65	0,70	64	51	207
6510-25	1	25,40	0,80	1,02	32,77	0,80	89	34	138
6510-32	1 ¼	32,20	0,80	1,02	40,72	0,80	127	25	103
6510-40	1 ½	38,10	0,80	1,02	48,25	0,80	152	22	90
6510-50	2	51,40	0,80	1,20	61,50	0,80	200	17	69

## 6512 Easyflex black antistatic

Art no	Diameter	Innerdiameter		Wall thickness mm	Outer diameter mm		Min. bend radius mm	Max working pressure bar	Min. burst pressure bar
	Inch	Nom	Tol +/-mm		Nom	Tol +/-mm			
6512-06	¼	7,10	0,50	0,76	12,30	0,50	18	129	517
6512-10	3/8	9,50	0,60	0,76	15,25	0,60	20	103	414
6512-13	½	12,83	0,60	0,89	18,80	0,60	25	77	310
6512-16	5/8	15,88	0,60	0,89	22,10	0,60	51	62	248
6512-20	¾	19,05	0,70	1,02	24,65	0,70	64	51	207
6512-25	1	25,40	0,80	1,02	32,77	0,80	89	34	138
6512-32	1 ¼	32,20	0,80	1,02	40,72	0,80	127	25	103
6512-40	1 ½	38,10	0,80	1,02	48,25	0,80	152	22	90
6512-50	2	51,40	0,80	1,20	61,50	0,80	200	17	69



# 400-serie smooth

The smooth bore PTFE hose is used in smaller dimensions  
It is not as flexible as the convoluted hose in bigger dimensions,  
but it is very suitable for hygienic applications because of its  
smooth inside.

## Technical description:

Innertube of PTFE with stainless steel braid on the  
outside. Temperature range -50 +250 C.



## Standard -PTFE

Type	Nom Id	Tol +/- mm	Nom Od	Tol +/- mm	Max work Pressure	Min burst pressure/bar	Min bend radius
414-03	3,40	0,25	6,10	0,40	207	827	38
414-05	5,10	0,40	8,05	0,60	198	793	50
414-06	6,70	0,40	9,35	0,60	168	672	76
414-10	8,94	0,40	13,21	0,60	163	655	127
414-13	12,37	0,40	15,40	0,60	120	483	140
414-16	15,15	0,50	18,40	0,75	103	414	165
414-20	18,90	0,60	22,10	0,85	86	345	203
414-25	25,40	0,80	29,75	1,20	51	207	305

## High pressure - PTFE

Type	Nom Id	Tol +/- mm	Nom Od	Tol +/- mm	Max work Pressure	Min burst pressure/bar	Min bend radius
<b>Single braid AISI304</b>							
424-05	4,93	0,25	8,00	0,5	206	827	51
424-06	6,60	0,25	10,16	0,5	200	800	64
424-08	8,05	0,25	11,48	0,5	186	745	76
<b>Dubble braid AISI 304</b>							
425-06	6,35	0,25	11,43	0,5	320	1279	76
425-08	7,60	0,25	12,65	0,5	275	1103	64

## High pressure - ETFE

Type	Nom Id	Tol +/- mm	Nom Od	Tol +/- mm	Max work Pressure	Min burst pressure/bar	Min bend radius
<b>Single braid AISI304</b>							
434-05	4,93	+0,5/-0,25	8,00	+0,6/-0,6	225	900	51
434-06	6,60	+0,5/-0,25	10,16	+0,6/-0,6	200	800	76
434-08	8,05	+0,5/-0,25	11,48	+0,6/-0,6	186	745	102
<b>Dubble braid AISI 304</b>							
435-06	6,35	+0,4/-0,25	11,43	+0,6/-0,6	320	1280	76

# 700-Series Radiflon

Radiflon is our most flexible hose in our range of hoses. It manage a large number of cycles and has an extremely narrow bend radius.



The RADIFLON hose resists more or less all types of chemiclas and does not age, and does not affect by smell or taste.

The PTFE hose is well suited for demanding installations and toughconditions.

The standard hose has a stainless steel braid in AISI304. As an option it can be supplied with glassfibre braid between hose and SS braid in order to manage abrasion better when the hose is bending a lot.

Temperature range  $-60^{\circ}\text{C}$  -  $+260^{\circ}\text{C}$ .

A wide range of fittings can be used.

**716** Innertube white PTFE, braid AISI 304L.

**717** Innertube black antistatic, PTFE braid AISI 304L.

**726** Innertube white PTFE, braid AISI 304L, glass fiber braid between tube and braid.

**727** Innertube black antistatic PTFE, braid AISI 304L, glass fiber braid between tube and braid.

Technical data								
Diameter	Innerdiam.		Wall thickness	Outerdiam.		Min. bendradius mm	Max. working pressure bar	Min. burst pressure bar
	Min mm	Max mm		Min mm	Max mm			
3/8"	9,1	9,9	0,64	14,3	15,3	15	65	260
1/2"	13,45	14,25	0,64	18,6	19,6	20	26	104
5/8"	16,7	17,5	0,89	23,1	24,1	25	26	104
3/4"	17,9	18,7	0,89	24,1	25,1	25	25	100
1"	26,5	27,5	0,89	34	35,2	30	17	68

# Fittings

All types of fittings can be used to our hoses. Below you can find some examples of fittings. Other types are also available, contact us for further information.

Material: Carbon steel, stainless steel, brass,

First no "x" should be replaced by the first no in the hose article no, for examplpe 3 for the 300 serie hose Convoflex.



**Female svivelnut spherical face.**  
Art.no. x304 Carbon steel  
Art.no. x604 SS  
**As above but 90° bend.**  
Art.no. x305 Carbon steel  
Art.no. X605 SS



**Male thread.**  
Art.no. x352 Carbon steel  
Art.no. x652 SS  
**As above but Cyl. thread SMS 2766.**  
Art.no. x303 C steel  
Art.no. x603 SS



**Union female fitting.**  
Art.no. x354 Carbon steel  
Art.no. X654 SS



**Loose flange: PN 10/16**  
Art.no. x317 Carbon steel  
Art.no. X617 SS  
Art.no. x6317 CS/SS

For hose DN	Fitting dim.
-10	3/8"
-13	1/2"
-20	>3/4"
-25	1"
-32	1 1/4"
-40	1 1/2"
-50	2"
-65	2 1/2"
-80	3"
-100	4"



**Camlok male.**  
Art.no. x430 Male CS  
Art.no. x630 Male SS



**Camlok female.**  
Art.no. x429 female CS  
Art.no. x629 Female SS

For hose DN	Fitting dim.
-13	13
-20	20
-25	25
-32	32
-40	40
-50	50
-65	65
-80	80
-100	100



**Straight pipe end**  
Artno x310 CS  
Artno x610 SS.

For hose DN	ø D pipe
-10 3/8"	10
-10 3/8"	12
-10 3/8"	14
-13 1/2"	15
-13 1/2"	16
-13 1/2"	18
-20 3/4"	20
-20 3/4"	22
-20 3/4"	25
-25 1"	25
-25 1"	28
-25 1"	30
-32 1 1/4"	35
-32 1 1/4"	38
-40 1 1/2"	38
-40 1 1/2"	42



**SMS svivel nut.**  
Art.no. x625 SS



**SMS male.**  
Art.no. x626 SS

For hose DN.	Fitting dim.
-25	25,0
-40	38,0
-50	51,0
-65	63,5
-80	76,0
-100	101,6