

POLYFLURON® S-PTFE-HOSE

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with a smooth PTFE-core for pressure resistant flexibility



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A pressure resistant, flexible hose assembly for chemical applications
with a smooth PTFE-core

For more than 50 years Dr. Schnabel GmbH & Co. KG has been manufacturing flexible hoses made of Polyfluron®-PTFE in Limburg/Lahn. Only virgin paste-extruded PTFE with outstanding properties for a variety of applications is used for the production of the PTFE-core. This means most hoses still remain active after a great number of years. Our continuous attention to quality and our experience guarantee the selection of the most suitable hose for each application.

Properties of the PTFE core

- universal chemical resistance
- weathering resistance
- temperature stability up to 230°C
- vacuum resistant at 20°C
- non-inflammable
- water-repellent
- antiadhesive
- non-ageing
- physiologically safe

Advantages of S-PTFE-hoses

- long lifetime
- small flow resistance
- easy to clean
- multi-purpose
- endless braiding
- no emerging steel ends



Possible fields of application

- chemical industry
- racks
- stamping machines
- paper industry
- pharmaceutical industry
- food industry

A complete selection of hoses

- electroconductive (black) PTFE upon request
- graded pressure resistance
- PTFE - corrugated hoses are available
- numerous armatures can be combined
- generator hoses
- lengths approx. 10 - 15 m up to DN 16
- lengths approx. 6 m from DN 20 onwards

Pressure resistant hose assemblies with smooth PTFE core

Various types of hoses with smooth Polyfluron®-PTFE core are available, differing in pressure resistance. While type N is designed without a braiding, type A or type H are recommended for high pressure strain. All three types are available in white (without electrical conductivity) or black (antistatic) PTFE.

Type N: Smooth hose without braiding

Type A: Smooth pressure hose with single stainless steel braiding

Dimension DN mm	PTFE-core		single braiding mm	operating pressure** bar	bursting pressure bar	bending radius mm	max. length m
	inner Ø mm	outer Ø mm					
TYPE	N, A	N, A	A	A	A	A	N, A
4	4,8	6,8	9	255	900	50	15
6	6	8	10	175	700	75	15
8	7	9,5	12	150	600	100	15
10	10	13	15	140	550	120	15
13	12,5	15	18	125	500	135	12
16	15	18	21	100	350	165	12
20	21	24	28	100	350	180	6,5
25	26	29	35	75	280	225	6,5
32	33	36,5	44	50	150	275	6,5
40	36	40	48	20	60	860	6,5
50	48	52	55	15	45	1160	6,5
65	60	67	70	10	30	*	6,5

* upon request

Type H: Smooth high pressure hose with double stainless steel braiding

Dimension DN mm	PTFE-core		double braiding mm	operating pressure** bar	bursting pressure bar	bending radius mm	max. length m
	inner Ø mm	outer Ø mm					
TYP	H	H	H	H	H	H	H
4	4,8	8	11	280	980	75	15
6	6	9,5	12	245	900	100	15
8	7	12	14	245	850	125	15
10	10	13,5	17	245	850	150	15
13	12,5	15,5	19	245	800	170	12
16	15	20	23	210	600	200	12
20	21	24	31	160	640	225	6,5
25	26	29	37	140	450	275	6,5
32	33	32	47	80	300	275	6,5
40	36	40	48	20	60	860	6,5
50	48	52	55	15	45	1160	6,5

** under room temperature and even rise of pressure. In case of shock load and even load under high temperatures, the indicated operating pressure must be reduced by approx. 20%.

Armatures for S-PTFE-hoses

The selection of the correct armature depends on the application. In lots of cases corrosion resistance has to be guaranteed up to the contact surface to protect the armatures. For this reason the PTFE core is pulled through the armature and flanged over the contact surface.

The variety of different armatures and materials, which are up to the international standards, enable the selection of the correct connection for almost every application. Our competent staff will be happy to give you advice. Armatures are available in various stainless steel types, galvanized steel or brass. Naturally they also come up to the relevant standards.



Hose armatures	
with PTFE contact surface	without PTFE contact surface
flange connections	BSP thread**
Camlock-coupling (?)	DIN thread**
food industry fittings	JIS thread**
BSP thread *	45° and 90° connection
DIN thread *	food industry fittings
JIS thread *	

* union nut and external thread, straight contact surface

** union nut and external thread, various contact surfaces

QUESTIONNAIRE

for a quotation for S-PTFE-hoses

FAX: ++49 - (0) - 6431 - 2 36 45 sales department

Name: _____ Company: _____ Tel. No.: _____
 Project no.: _____ Date: _____ Fax. No.: _____

Details of operating conditions:

Pressure: _____ bar
 Temperature: _____ °C
 Medium: _____

Hose details: _____
 Type: (N,A,H) _____
 Length: _____ mm
 Type of armature: _____
 Material of armature: _____
 Braiding: _____
 Number: _____

Mounting sketch

Please enclose with your offer more information on the following products:

- | | |
|--|--|
| <input type="checkbox"/> corrugated hoses | <input type="checkbox"/> PTFE-lined pipings |
| <input type="checkbox"/> PTFE-lined fittings | <input type="checkbox"/> PTFE-lined vessels |
| <input type="checkbox"/> columns | <input type="checkbox"/> splash protection articles |
| <input type="checkbox"/> PTFE-bellows | <input type="checkbox"/> Flurosic®-SIC heat exchangers |

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