



APPLICATIONS

Electrically conductive suction and blast hose, especially suitable:

- In areas liable to contain explosive mixtures (explosion protection)
- For aggressive solids such as dust, powder and fibres
- For aggressive gaseous media such as vapors and smoke
- As bellows and compensator
- For de-dusting and suction plants

PROPERTIES

- Surface resistant PTFE foil $10^6 \Omega$
- Double-layer
- Very good heat resistance
- Highly flexible and compressible 4:1
- Abrasion protection via external clamp profile
- Firm clamping of the wall in clamp profile
- Anti-adhesive
- Good resistance to alkalis and acids
- Extremely good resistance to chemicals (see chapt. 14.1)
- Good resistance to UV and ozone (see chapt. 14.8)
- Small bending radius
- Kink-proof
- Light weight
- According to TRBS 2153 (formerly BGR 132): capable of electro-static discharge by grounding the spiral, recommended for many applications with the exception of inflammable bulk materials

MATERIAL

- Wall: interior semi-conducting PTFE foil, exterior special-coated glass fabric
- Clamp profile: stainless steel (VA)

TEMPERATURE RANGE

- -150°C approx to +250°C approx
- Short time to +270°C approx

COLOUR

- Transparent

CONSTRUCTION

Patented CP construction (CP = clamp profile, see chapt. 0.2):

- 1 Clamp profile supporting spiral (metal band and wire)
- 2 Double-layer wall



CP PTFE/Glas-VA 471 EL

I.D	O.D	Recommended Operating Limits		Bending Radius (middle of hose)	Weight	Further Production Lengths	Order Number
		Overpressure bar	Vacuum bar				
mm	mm	bar	bar	mm	kg/m	mm	
50	62	0.42	0.3	43	0.61	6	471-0050-1003
55	67	0.4	0.28	47	0.66	6	471-0055-1003
60	72	0.375	0.25	50	0.72	6	471-0060-1003
65	77	0.36	0.23	54	0.77	6	471-0065-1003
70	82	0.34	0.21	57	0.83	6	471-0070-1003
75	87	0.33	0.18	61	0.88	6	471-0075-1003
80	92	0.315	0.16	64	0.94	6	471-0080-1003
90	102	0.29	0.11	71	1.05	6	471-0090-1003
100	112	0.19	0.1	78	0.86	6	471-0100-1003
110	122	0.18	0.085	85	0.95	6	471-0110-1003
120	132	0.17	0.075	92	1.03	6	471-0120-1003
125	137	0.165	0.07	96	1.07	6	471-0125-1003
130	142	0.16	0.06	99	1.11	6	471-0130-1003
140	152	0.55	0.05	106	1.19	6	471-0140-1003
150	162	0.105	0.04	113	0.86	6	471-0150-1003
160	172	0.1	0.035	120	0.91	6	471-0160-1003
170	182	0.095	0.03	127	0.97	6	471-0170-1003
175	187	0.095	0.03	131	0.99	6	471-0175-1003
180	192	0.09	0.03	134	1.02	6	471-0180-1003
200	212	0.085	0.025	148	1.13	6	471-0200-1003
215	227	0.08	0.02	159	1.21	6	471-0215-1003
225	237	0.08	0.02	166	1.27	6	471-0225-1003
250	262	0.06	0.02	183	1.4	6	471-0250-1003
275	287	0.055	0.015	201	1.54	6	471-0275-1003
300	312	0.05	0.01	218	1.68	6	471-0300-1003
315	327	0.05	0.01	228	1.78	6	471-0315-1003
325	337	0.045	0.01	236	1.85	6	471-0325-1003
350	362	0.04	0.01	253	1.95	6	471-0350-1003
375	387	0.04	0.01	270	2.13	6	471-0375-1003
400	412	0.035	0.01	288	2.23	6	471-0400-1003
450	462	0.03	0.005	323	2.5	6	471-0450-1003
500	512	0.02	0.005	358	2.77	6	471-0500-1003
600	612	0.02	0.005	428	3.32	3	471-0600-1003
700	712	0.015	0.002	498	3.87	3	471-0700-1003
800	812	0.015	0.001	568	4.42	3	471-0800-1003
900	912	0.015	0.001	638	5.07	3	471-0900-1003
1000	1012	0.01	0.001	708	5.51	3	471-1000-1003

Further diameters and lengths available on request. All stated data are approx. figures based on a temperature of 20 °C.
 Engineering modifications subject to change. Please refer to technical index