

APPLICATIONS

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
- For de-dusting and suction plants, flue gas extraction, blast furnace exhaust and welding gas exhaust
- As bellows and compensator

PROPERTIES

- Volume and surface resistance $< 10^4 \Omega$
- According to TRBS 2153 electrically conductive wall: electrical and surface resistance $< 10^4 \Omega$, recommended for conveying of inflammable bulk materials
- Vibration resistant
- Very good heat resistance
- Highly flexible and compressible 4:1
- Abrasion protection via external clamp profile
- Firm clamping of the wall in clamp profile
- Good resistance to mineral oils and gasoline
- Good resistance to alkalis and acids
- Good resistance to chemicals (refer to section 14.1)
- Good resistance to UV and ozone (see chapt. 14.8)
- Small bending radius
- Kink-proof
- Light weight
- Conforms to the requirements of the European ATEX guideline
- 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: Viton®; coated polyester fabric
- Clamp profile: galvanized steel

Temperature Range

- -20°C approx to $+210^{\circ}\text{C}$ approx

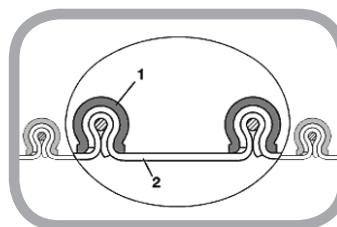
COLOUR

- Transparent

CONSTRUCTION

Patented CP construction:

- 1 Clamp profile supporting spiral (metal band and wire)
- 2 Wall



CP Viton® 459 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	
38	50	0.805	0.45	40	0.48	6	459-0038-0000
40	52	0.785	0.44	42	0.53	6	459-0040-0000
50	62	0.7	0.38	50	0.64	6	459-0050-0000
55	67	0.66	0.35	54	0.70	6	459-0055-0000
60	72	0.63	0.32	58	0.76	6	459-0060-0000
65	77	0.6	0.29	62	0.81	6	459-0065-0000
70	82	0.57	0.26	66	0.87	6	459-0070-0000
75	87	0.545	0.23	70	0.93	6	459-0075-0000
80	92	0.525	0.2	74	0.98	6	459-0080-0000
90	102	0.485	0.14	82	1.10	6	459-0090-0000
100	112	0.32	0.12	78	0.90	6	459-0100-0000
110	122	0.3	0.105	85	0.98	6	459-0110-0000
120	132	0.28	0.09	92	1.07	6	459-0120-0000
125	137	0.275	0.085	96	1.11	6	459-0125-0000
130	142	0.27	0.075	99	1.15	6	459-0130-0000
140	152	0.255	0.06	106	1.23	6	459-0140-0000
150	162	0.175	0.05	113	0.88	6	459-0150-0000
160	172	0.165	0.045	120	0.93	6	459-0160-0000
170	182	0.16	0.04	127	0.99	6	459-0170-0000
175	187	0.155	0.04	131	1.02	6	459-0175-0000
180	192	0.155	0.04	134	1.04	6	459-0180-0000
200	212	0.145	0.03	148	1.16	6	459-0200-0000
215	227	0.135	0.03	159	1.24	6	459-0215-0000
225	237	0.135	0.025	166	1.30	6	459-0225-0000
250	262	0.1	0.025	183	1.44	6	459-0250-0000
275	287	0.095	0.02	201	1.58	6	459-0275-0000
300	312	0.09	0.015	218	1.72	6	459-0300-0000
315	327	0.08	0.015	228	1.78	6	459-0315-0000
325	337	0.07	0.015	236	1.85	6	459-0325-0000
350	362	0.065	0.015	253	2.00	6	459-0350-0000
375	387	0.065	0.01	270	2.13	6	459-0375-0000
400	412	0.06	0.01	288	2.28	6	459-0400-0000
450	462	0.055	0.01	323	2.56	6	459-0450-0000
500	512	0.035	0.005	358	2.84	6	459-0500-0000
600	612	0.03	0.005	428	3.40	3	459-0600-0000
700	712	0.025	0.002	498	3.96	3	459-0700-0000
800	812	0.025	0.002	568	4.52	3	459-0800-0000
900	912	0.02	0.001	638	5.09	3	459-0900-0000
1000	1012	0.02	0.001	708	5.65	3	459-1000-0000

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