

CHEMICAL-RESISTANT · II 2GD — fully conductive per TRGS 727 for flammable liquids and dusts

CP VITON® 459 EC

Conductive Viton®-lined hose for extreme chemicals at high temperatures



Clamp-profile hose with Viton® liner (FKM fluoroelastomer) for extraction of chemical vapours at elevated temperatures — up to +210 °C. It shares its base construction with CP PE 457 EC (clamp profile, 4:1 compressibility, conductive wall $<10^3 \Omega$, ATEX approval to Zone 0/1/2 and Zone 22), but the FKM liner opens the higher temperature window that the PE liner cannot reach.

R: $<10^3 \Omega$

ATEX: Zone 0/1/2 + 20/21/22

Media: Liquid, Gas

Temp: -40 °C to 200 °C

✓ Cut to length

APPLICATIONS

- Pneumatic transport of liquid and gas
- Industrial extraction and collection
- Process plants and production environments
- Mobile installations and flexible routing
- Vacuum and low-pressure systems

Technical specifications

Material	Viton® (FKM) liner with EPDM cover
Colour	Black with transparent interior
Wall construction	Smooth FKM liner, textile reinforcement, copper wires for grounding, EPDM cover
Conveying media	Liquid, Gas
Temperature range	-40 °C – 200 °C
Short-term peak	220 °C
Electrical resistance	<10 ³ Ω
ATEX classification	II 2GD — fully conductive per TRGS 727 for flammable liquids and dusts ATEX 2014/34/EU (1999/92/EC) + TRGS 727
Cut to length	Yes
Manufacturer SKU	4590000-EC

Standards and compliance

ATEX 2014/34/EU, TRGS 727, REACH, RoHS

Dimensions and ordering

The hose is supplied in 45 standard sizes from inner Ø 38.0 mm to 712.0 mm. Each size has its own article number. Standard roll length is typically 10 m, and the hose can be cut to length.

Inner Ø [mm]	Outer Ø [mm]	Press. DIN [bar]	Vacuum axial [bar]	Bend rad. [mm]	Max len. [m]	Weight [kg/m]	Roll [m]	Article no.
38	50	0.785	0.45	21	6	0.48	6	45900380000
40	52	0.765	0.44	22	6	0.53	6	45900400000
50.5	62.5	0.63	0.38	25	15	0.56	6	45900500000
55	67	0.6	0.35	27	15	0.6	6	45900550000
60	72	0.57	0.32	28	15	0.65	6	45900600000
64.5	76.5	0.545	0.29	30	15	0.7	6	45900650000
70	82	0.525	0.26	31	15	0.75	6	45900700000
75.6	87	0.5	0.23	33	15	0.8	6	45900750000
80	92	0.485	0.2	34	15	0.85	6	45900800000
90	102	0.45	0.14	37	15	0.95	6	45900900000
101.5	113.5	0.3	0.12	28	15	0.8	3, 6	45901000000
101.5	113.5	0.3	0.12	28	15	0.8	-	45901020000
110	122	0.285	0.105	30	15	0.86	3, 6	45901100000
115	127	0.275	0.097	32	15	0.9	3, 6	45901150000
120	132	0.27	0.09	32	15	0.94	3, 6	45901200000
126.5	138.5	0.26	0.085	34	15	0.99	3, 6	45901250000
140	152	0.245	0.06	36	15	1.09	3, 6	45901400000
151.5	163.5	0.165	0.05	38	15	0.82	3, 6	45901500000
160	172	0.16	0.045	40	15	0.87	3, 6	45901600000
165	177	0.155	0.045	41	15	0.89	3, 6	45901650000
170	182	0.155	0.04	42	15	0.92	3, 6	45901700000
175	187	0.15	0.04	44	15	0.95	3, 6	45901750000
180	192	0.15	0.04	44	15	0.97	3, 6	45901800000
202.3	214.3	0.14	0.03	48	15	1.09	3, 6	45902000000
215	227	0.135	0.03	52	15	1.15	3, 6	45902150000
225	237	0.13	0.025	54	15	1.21	3, 6	45902250000
228.5	240.5	0.12	0.025	54	15	1.23	3, 6	45902280000
250	262	0.1	0.025	58	15	1.34	3, 6	45902500000
254	266	0.095	0.025	59	15	1.36	3, 6	45902540000
300	312	0.085	0.015	68	15	1.6	3, 6	45903000000
305	317	0.085	0.015	69	15	1.63	3, 6	45903050000
315	327	0.085	0.015	71	15	1.68	3, 6	45903150000

Inner Ø [mm]	Outer Ø [mm]	Press. DIN [bar]	Vacuum axial [bar]	Bend rad. [mm]	Max len. [m]	Weight [kg/m]	Roll [m]	Article no.
320	332	0.08	0.015	73	10	1.7	-	45903200000
325	337	0.08	0.015	74	15	1.73	3, 6	45903250000
350	362	0.065	0.015	78	15	1.86	3, 6	45903500000
356	368	0.065	0.015	79	15	1.89	3, 6	45903560000
400	412	0.06	0.01	88	15	2.12	3, 6	45904000000
406	418	0.06	0.01	89	15	2.15	3, 6	45904060000
415	427	0.055	0.01	95	15	2.2	-	45904150000
450	462	0.055	0.01	98	15	2.38	3, 6	45904500000
457	469	0.05	0.01	100	10	2.42	3, 6	45904570000
500	512	0.05	0.005	108	10	2.64	3, 6	45905000000
508	520	0.035	0.005	110	10	2.69	3, 6	45905080000
600	612	0.03	0.005	128	10	3.17	3	45906000000
712	724	0.025	0.002	151	3	3.75	3	45907120000

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Contact and advisory

Particulair

Højtoften 12
2690 Karlslunde, Denmark
CVR: 34129894

Phone: (+45) 70 23 12 03
E-mail: sales@particulair.com
Web: particulair.eu

Product page: particulair.eu/flexcore/en/chemical/cp-viton-459-ec/

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