

CHEMICAL-RESISTANT · II 1/2GD (interior zone 0/22, exterior zone 1/21) -- electrically conductive per TRGS 727

## CP PE 457 EC

Highly flexible clamp profile hose in polyethylene, electrically conductive, chemical-resistant and ATEX-approved



Highly flexible clamp profile hose with polyethylene lining and galvanised steel clamp profile. Electrically conductive ( $<10^3 \Omega$ ), extremely chemical-resistant and ATEX-approved for Zone 0/1/2 (gases) and 22 (combustible dust). Suited to extraction systems, gas displacement and potentially explosive atmospheres. Compressible 4:1.

**R:**  $<10^3 \Omega$

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

**Media:** Gas, Dust

**Temp:** -35 °C to 80 °C

✓ Cut to length

### APPLICATIONS

- Extraction arms in chemical industry
- Vapour and solvent extraction
- Gas transport in ATEX zones
- Powder handling with chemicals
- Local extraction in research laboratories

## Technical specifications

<b>Material</b>	Clamp profile in galvanised steel, lining in conductive polyethylene film
<b>Colour</b>	Silver-grey (clamp profile) with transparent PE lining
<b>Wall construction</b>	Galvanised steel clamp profile with conductive PE lining, highly flexible and compressible 4:1
<b>Spiral material</b>	Galvanised steel clamp profile
<b>Conveying media</b>	Gas, Dust
<b>Temperature range</b>	-35 °C – 80 °C
<b>Short-term peak</b>	80 °C
<b>Electrical resistance</b>	$<10^3 \Omega$
<b>ATEX classification</b>	II 1/2GD (interior zone 0/22, exterior zone 1/21) -- electrically conductive per TRGS 727 ATEX 2014/34/EU (1999/92/EC) + TRGS 727
<b>Cut to length</b>	Yes
<b>Manufacturer SKU</b>	4571003

### Standards and compliance

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

## Dimensions and ordering

The hose is supplied in 34 standard sizes from inner Ø 50.5 mm to 800.0 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.
50.5	62.5	0.49	0.27	18	10	0.61	6	45700501003
55	67	0.46	0.25	20	10	0.66	6	45700551003
60	72	0.44	0.22	20	10	0.71	6	45700601003
64.5	76.5	0.42	0.2	22	10	0.76	6	45700651003
70	82	0.4	0.18	22	10	0.82	6	45700701003
75.6	87.6	0.38	0.16	24	10	0.88	6	45700751003
80	92	0.365	0.14	24	10	0.93	6	45700801003
90	102	0.34	0.1	26	10	1.04	6	45700901003
101.5	113.5	0.225	0.085	28	15	0.78	6	45701001003
110	122	0.21	0.075	30	15	0.85	3, 6	45701101003
115	127	0.205	0.07	32	15	0.88	3, 6	45701151003
120	132	0.2	0.065	32	15	0.92	3, 6	45701201003
126.5	138.5	0.195	0.06	34	15	0.97	3, 6	45701251003
151.5	163.5	0.12	0.035	38	15	0.86	3, 6	45701501003
160	172	0.115	0.03	40	15	0.91	3, 6	45701601003
180	192	0.11	0.025	44	15	1.02	3, 6	45701801003
202.3	214.3	0.1	0.02	48	15	1.14	3, 6	45702001003
225	237	0.09	0.02	54	15	1.27	3, 6	45702251003
250	262	0.07	0.015	58	15	1.4	3, 6	45702501003
254	266	0.065	0.015	59	15	1.43	3, 6	45702541003
280	292	0.06	0.015	65	15	1.57	3, 6	45702801003
300	312	0.06	0.01	68	15	1.68	3, 6	45703001003
305	317	0.055	0.01	69	15	1.7	3, 6	45703051003
315	327	0.05	0.01	71	15	1.76	3, 6	45703151003
325	337	0.045	0.01	74	15	1.81	3, 6	45703251003
350	362	0.045	0.01	78	15	1.95	3, 6	45703501003
356	368	0.04	0.01	79	15	1.98	3, 6	45703561003
400	412	0.04	0.005	88	15	2.23	3, 6	45704001003
406	418	0.035	0.005	89	10	2.26	3, 6	45704061003
450	462	0.035	0.005	98	10	2.5	3, 6	45704501003
500	512	0.025	0.005	108	10	2.77	3, 6	45705001003
600	612	0.025	0.005	128	6	3.32	3, 6	45706001003

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.
630	642	0.025	0.005	140	6	3.49	-	45706301003
800	812	0.015	0.001	168	6	4.42	3, 6	45708001003

Overpressure and underpressure are recommended operating limits; products can be subjected to higher loads on request. The bend radius is measured along the inside of the hose bend.

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## Contact and advisory

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