Extraction arm
PERMA arm

Geovent A/S offers a new extraction arm, the PERMA, in our program of extraction arms. The PERMA arm is suitable for use at hairdressers, dental clinics, jewelers, pharmacies, veterinarians, podiatrists, schools, laboratories / hospitals and food manufacturing industries. In addition, the suction arm is suitable for the electronics industry (ATEX/ESD approved), as well as for the chemicals, plastics and engineering industries.

The PERMA arm consists of a standard Aluminium tube with two molded plastic (POM) joints. Available in two pipe sizes ø57 mm and ø76 mm. As standard with anodized surface. Equipped with removable black plastic covers for easy cleaning.

The flexible, self-supporting construction consists of 2 or 3 parts Aluminium tubes, bracket for mounting and a large selection of accessories. The key element of the program is the patented suspension system for spiral pipe and the cleaning friendly arm joints. The joint can increase efficiency by approximately 25% compared to comparable arms on the market.
The system is even flexible and easy to install.

Extraction arms is suitable for use in environments with no special demands for chemical resistance or conductive characteristics. Point extraction arms is offered in white or black joints.
The antistatic extraction arms ATEX/ESD is suitable for use in ATEX/ESD areas. This means that for example. Electronics industry can use these extractor arms without danger of static electricity associated with extraction processes. ATEX/ESD is available only in black.

General:
ø57 mm 50-90 m³/h
ø76 mm 80-180 m³/h

The lowest pressure loss

Available in black or white joints

![GEOVENT logo]

PERMA arm

PERMA Arm ø57 mm

Art. No	Description type ø57
10-300*	380 mm 2 joint white or black
10-301*	480 mm 2 joint white or black
10-302*	580 mm 2 joint white or black
10-303*	750 mm 3 joint white or black
10-304*	950 mm 3 joint white or black
10-305*	1150 mm 3 joint white or black
10-306*	1250 mm 3 joint white or black
10-307*	1350 mm 3 joint white or black
10-308*	1420 mm 3 joint white or black
10-309*	1490 mm 3 joint white or black

All PERMA arms are incl. damper

PERMA Arm ø76 mm

Art. No.	Description type ø76
10-400*	380 mm 2 joint white or black
10-401*	480 mm 2 joint white or black
10-402*	580 mm 2 joint white or black
10-403*	750 mm 3 joint white or black
10-404*	950 mm 3 joint white or black
10-405*	1150 mm 3 joint white or black
10-406*	1250 mm 3 joint white or black
10-407*	1350 mm 3 joint white or black
10-408*	1420 mm 3 joint white or black
10-409*	1490 mm 3 joint white or black

All PERMA arms are incl. damper.

* The PERMA arms are available in 4 versions – black or white joints (S/H) or table mounting or ceiling/wall mounting (B/L)
Therefore, an extention to the Art. No. added:
SL = Black for ceiling/wall   HL = White for ceiling/wall
SB = Black for table   HB = White for table.

PERMA Arm ø57 mm, ATEX/ESD

Art. No.	Description type ø57 ATEX/ESD
10-350*	380 mm 2 joint only in black
10-351*	480 mm 2 joint only in black
10-352*	580 mm 2 joint only in black
10-353*	750 mm 3 joint only in black
10-354*	950 mm 3 joint only in black
10-355*	1150 mm 3 joint only in black
10-356*	1250 mm 3 joint only in black
10-357*	1350 mm 3 joint only in black
10-358*	1420 mm 3 joint only in black
10-359*	1490 mm 3 joint only in black

All PERMA arms are incl. damper
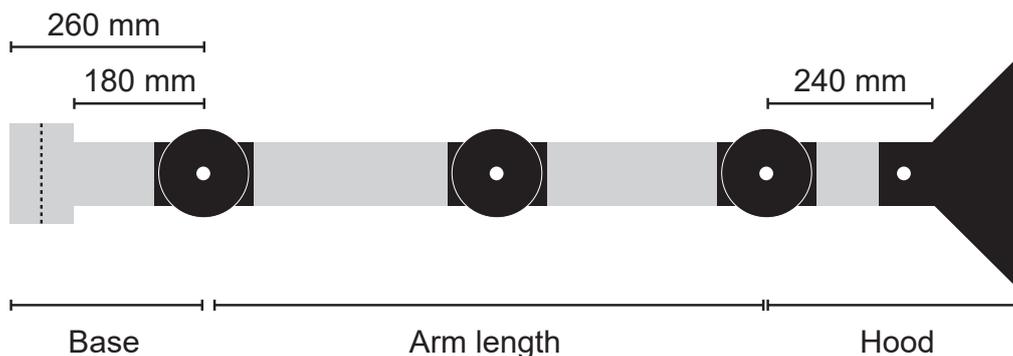
PERMA Arm ø76 mm, ATEX/ESD

Art. No.	Description type ø76 ATEX/ESD
10-450	380 mm 2 joint only in black
10-451	480 mm 2 joint only in black
10-452	580 mm 2 joint only in black
10-453	750 mm 3 joint only in black
10-454	950 mm 3 joint only in black
10-455	1150 mm 3 joint only in black
10-456	1250 mm 3 joint only in black
10-457	1350 mm 3 joint only in black
10-458	1420 mm 3 joint only in black
10-459	1490 mm 3 joint only in black

All PERMA arms are incl. damper

* The PERMA arms are available in 2 versions with black joints for table mounting or ceiling/wall mounting (B/L)
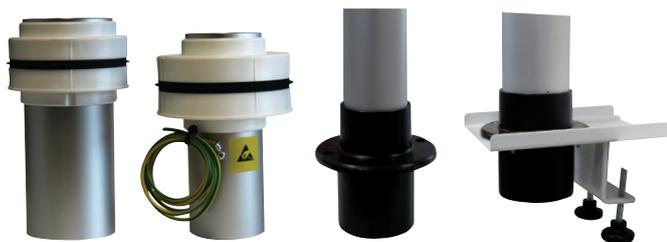Therefore, an extention to the Art. No. added: L = Ceiling/wall
B = Table.

> The arms can be mounted directly in spiral duct, REMEMBER grounding.

Dimensions

260 mm
180 mm
240 mm

Base   Arm length   Hood

PERMA arm

Mounting bracket / base

The extraction arms in ø57 mm and ø76 mm is offered for either ceiling mounting or wall mounting. Can be mounted in, rounded tube or white painted socket pipe. The extraction arms in the two types of pipes are all available as table mounting with special crafted table bracket, either on the edge of the table which can be removable or can be made a permanent settlement on the table.

10-509

PERMA arm, base/mounting bracket

Art. No	Description
10-315	Base for wall/ceiling L: 150 mm, ø57 mm, connection to ø100 mm duct
10-415	Base for wall/ceiling L: 180 mm, ø76 mm, connection to ø100 mm duct
10-500	Table bracket mounted directly in table, ø57 mm, hole in the table ø71 mm and connection ø63 mm NP. Pipe length: 260 mm
10-500A	Table bracket mounted directly in table, ø76 mm, hole in the table ø88 mm and connection ø80 mm NP. Pipe length: 260 mm
10-501	Table bracket, ø57 mm, attached to the table edge and connection ø63 mm, NP - Pipe length: 260 mm
10-501A	Table bracket, ø76 mm, attached to the table edge and connection ø80 mm, NP - Pipe length: 260 mm

PERMA arm, base/mounting bracket – ATEX/ESD

Art. No	Description
10-365	Base for wall/ceiling L:150 mm, ATEX/ESD, ø57 mm, connection to ø100 mm duct
10-465	Base for wall/ceiling L:150 mm, ATEX/ESD, ø76 mm, connection to ø100 mm duct
10-365B	Table bracket mounted directly in table, ATEX/ESD, ø57 mm, hole in the table ø71 mm and connection ø63 mm NP. Pipe length: 260 mm
10-465B	Table bracket mounted directly in table, ATEX/ESD, ø76 mm, hole in the table ø88 mm and connection ø80 mm NP. Pipe length: 260 mm
10-365C	Table bracket, ATEX/ESD, ø57 mm, attached to the table edge and connection ø63 mm, NP - Pipe length: 260 mm
10-465C	Table bracket, ATEX/ESD, ø76 mm, attached to the table edge and connection ø80 mm, NP - Pipe length: 260 mm

Mounting brackets / pipes

Art. No.	Description
10-502	Ceiling console with side connection L: 250 mm, ø100 mm duct
10-503	Ceiling console with side connection L: 350 mm, ø100 mm duct
10-504	Ceiling console with side connection L: 500 mm, ø100 mm duct
10-505	Ceiling console with side connection L: 750 mm, ø100 mm duct
10-506	Ceiling console with side connection L: 1000 mm, ø100 mm duct
10-507	Pipe white ø100 mm, L: 500 mm
10-508	Pipe white ø100 mm, L: 1000 mm
10-515	Connection nipple, ø100 mm, white, for assembly of ceiling console and pipes
10-509	Wall bracket for pipe, ø100 mm, 75 mm from the wall
10-509A	Wall bracket for base/pipe, ø100 mm, L: 120 mm
10-511	Ceiling bracket open ø100 mm - 200x200 mm
10-512	Branch pipe ø100 mm, B: 620 x H: 250 mm - used for 1 outlet and 2 arms
10-514	Support bracket for ceiling pipes ø100 mm

We recommend that all arms and hoods are cleaned with water

The arms can be mounted directly in spiral duct, REMEMBER grounding.

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10-316 + 10-416

10-317 + 10-417

10-316A + 10-416A

10-318 + 10-418

10-319 + 10-419

10-317 + 10-417

10-320 + 10-420

10-323 + 10-425

Suction pen

Suction pen, press flange

Accessories

Geovent offer a great range of accessories for suction arms: hoppers, suction pens and hoods with and without flexible tube/hose. There are different accessories for each type of extraction arms ø57, ø57 ATEX/ESD, ø76 and ø76 ATEX/ESD.

The suction nozzles are available in clear, impact resistant polycarbonate with an orifice diameter of up to 380 mm, or aluminium which can withstand considerable heat. Usually with rotary damper to open and close the air passage. The flexible pipe section allows replacement of the suction port / screen, while acting as a pivot.

Extraction hoods and suction pen

Art. No.	Description
10-321	Aluminum hood conical ø150 mm, ø57 mm
10-421	Aluminum hood conical ø150 mm, ø76 mm
10-316	Hood ø380 mm, polycarbonate, ø57 mm
10-416	Hood ø380 mm, polycarbonate, ø76 mm
10-316A	Hood ø280 mm, polycarbonate, ø57 mm
10-416A	Hood ø280 mm, polycarbonate, ø76 mm
10-317	Conical hood ø250, polycarbonate, ø57 mm
10-417	Conical hood ø250, polycarbonate, ø76 mm
10-318	Conical hood ø250 mm, with flextube 300 mm, polycarbonate ø57 mm
10-418	Conical hood ø250 mm, with flextube 300 mm, polycarbonate ø76 mm
10-319	Conical hood ø250 mm, with straight edge, polycarbonate, ø57 mm
10-419	Conical hood ø250 mm, with straight edge, polycarbonate, ø76 mm
10-320	Conical hood ø250 mm, with straight edge and flextube 300 mm, polycarbonate ø57 mm
10-420	Conical hood ø250 mm, with straight edge and flextube 300 mm, polycarbonate ø76 mm
10-329	Hood oval 140x180 mm, polycarbonate, ø57 mm
10-323	Flat screen 340x250 mm, polycarbonate, ø57 mm
10-425	Flat screen 340x250 mm, polycarbonate, ø76 mm

Tube 180 mm connecting the hood with the arm is included

Art. No.	Description
10-324	Suction pen alu, L: 250 mm, ø57 mm
10-422	Suction pen alu, L: 250 mm, ø76 mm
10-325	Suction pen alu, L: 350 mm, ø57 mm
10-423	Suction pen alu, L: 350 mm, ø76 mm
10-324A	Suction pen alu, L: 250 mm, with lip, ø57 mm
10-422A	Suction pen alu, L: 250 mm, with lip, ø76 mm
10-325A	Suction pen alu, L: 350 mm, with lip, ø57 mm
10-423A	Suction pen alu, L: 350 mm, with lip, ø76 mm
10-326	Suction pen alu, L: 150 mm with flextube L: 300 mm, ø57 mm
10-424	Suction pen alu, L: 150 mm with flextube L: 300 mm, ø76 mm
10-326A	Suction pen alu, with lip, L: 150 with flextube L: 300 mm, ø57 mm
10-424A	Suction pen alu, with lip, L: 150 with flextube L: 300 mm, ø76 mm
10-370	Suction pen alu, L: 150 mm with flextube L: 600 mm and damper, ø57 mm
10-371	Suction pen alu, L: 150 mm with flextube L: 900 mm and damper, ø57 mm
10-476	Light kit incl. LED driver and on/off switch

Pipe 180 mm connecting the hood with the arm is included

10-317 + 10-417

10-374 + 10-470

10-375 + 10-471

10-374A + 10-470A

10-377 + 10-473

10-329 + 10-382

10-380 + 10-475

Sugespids

10-476

Suction pen with flextube

Suction pen press flange with flextube

The different arms can regardless of the pipe thickness, be fitted with a flexible tube, which makes the suction funnel and suction pen easy to fix in a variety of postures.

Comes complete with couplings, rotary dampers and flexible tube, and can be completely customized as you wish.

Flex pipe can be used by all mounting types ceiling, wall and table mounting.

Extraction hoods and suction pen ATEX/ESD

Art. No.	Description
10-366	Aluminum hood conical, ø150 mm, ATEX/ESD, ø57
10-466	Aluminum hood conical, ø150 mm, ATEX/ESD, ø76
10-374	Dome hood ø380 mm, painted polycarbonate, ATEX/ESD, ø57 mm
10-470	Dome hood ø380 mm, painted polycarbonate, ATEX/ESD, ø76 mm
10-374A	Dome hood ø280 mm, painted polycarbonate, ATEX/ESD, ø57 mm
10-470A	Dome hood ø280 mm, painted polycarbonate, ATEX/ESD, ø76 mm
10-375	Conical hood, ø250 mm, painted polycarbonate, ATEX/ESD, ø57 mm
10-471	Conical hood, ø250 mm, painted polycarbonate, ATEX/ESD, ø76 mm
10-376	Hood conical, ø250 mm with flextube 300 mm, painted polycarbonate, ATEX/ESD, ø57 mm
10-472	Hood conical, ø250 mm with flextube 300 mm, painted polycarbonate, ATEX/ESD, ø76 mm
10-377	Hood conical, straight edge, ø250 mm, painted polycarbonate, ATEX/ESD, ø57 mm
10-473	Hood conical, straight edge, ø250 mm, painted polycarbonate, ESD, ø76
10-378	Hood conical, ø250 mm, with straight edge and flextube 300 mm, painted polycarbonat, ATEX/ESD, ø57
10-474	Hood conical, ø250 mm, with straight edge and flextube 300 mm, painted polycarbonat, ATEX/ESD, ø76
10-382	Hood oval 140x180 mm, painted polycarbonate, ATEX/ESD, ø57 mm
10-380	Flat screen 340x250 mm, painted polycarbonate, ATEX/ESD, ø57 mm
10-475	Flat screen 340x250 mm, painted polycarbonate, ATEX/ESD, ø76 mm

Tube 180 mm connecting the hood with the arm is included

Art. No.	Description
10-367	Suction pen alu, L: 250 mm, ATEX/ESD, ø57 mm
10-467	Suction pen alu, L: 250 mm, ATEX/ESD, ø76 mm
10-368	Suction pen alu, L: 350 mm, ATEX/ESD, ø57 mm
10-468	Suction pen alu, L: 350 mm, ATEX/ESD, ø76 mm
10-367A	Suction pen alu, L: 250 mm, with lip, ATEX/ESD, ø57
10-467A	Suction pen alu, L: 250 mm, with lip, ATEX/ESD, ø76
10-368A	Suction pen alu, L: 350 mm, with lip, ATEX/ESD ø57
10-468A	Suction pen alu, L: 350 mm, with lip, ATEX/ESD, ø76
10-369	Suction pen alu, L: 150 mm with flextube L: 300 mm, ATEX/ESD, ø57 mm
10-469	Suction pen alu, L: 150 mm with flextube L: 300 mm, ATEX/ESD, ø76 mm
10-369A	Suction pen alu, with lip, L: 150 with flextube L: 300 mm, ATEX/ESD, ø57 mm
10-469A	Suction pen alu, with lip, L: 150 with flextube L: 300 mm, ATEX/ESD, ø76 mm
10-370A	Suction pen alu, L: 150 mm with flextube L: 600 mm and damper, ATEX/ESD, ø57 mm
10-371A	Suction pen alu, L: 150 mm with flextube L: 900 mm and damper, ATEX/ESD, ø57 mm

Guide for PERMA arm use:

Sectors	PERMA arm			
	ø57	ø57 ATEX/ESD	ø76	ø76 ATEX/ESD
Dental Technician	x[1]		x[1]	
Veterinarians and clinics			x[2]	
Podiatrists	x[6]			
Nail Clinic	x[1]			
Doctors and specialists	x[1]		x[5]	
Laboratories		x[1,2]	x[1,2]	x[1,2]
Hospitals			x[1]	
Pharmacies			x[2]	
Gold and silversmiths	x[1]		x[2]	
Hairdressing	x[3]			
Classrooms in schools, colleges and universities	x[1]		x[1,4]	
Electronics industry		x[1]		x[1]

Chemicals:	[1]	Extraction arm with flexible hoses and suction tip
	[2]	Extraction arm with dome or funnel
	[3]	Extraction arm with flat screen, dome or funnel
Odour:	[2]	Extraction arm with dome or funnel
Gas, smell:	[4]	Extraction arm with suction funnel or dome
Solder Fume:	[1]	Extraction arm with flexible hoses and suction tip
Anaesthetic Gases:	[5]	Extraction arm with suction funnel
Dust:	[1]	Extraction arm with flexible hoses and suction tip
Grinding dust:	[6]	Extraction arm with suction funnel and hose (Item no.10-327)

PERMA Arm - Pressure drop