

ATAG

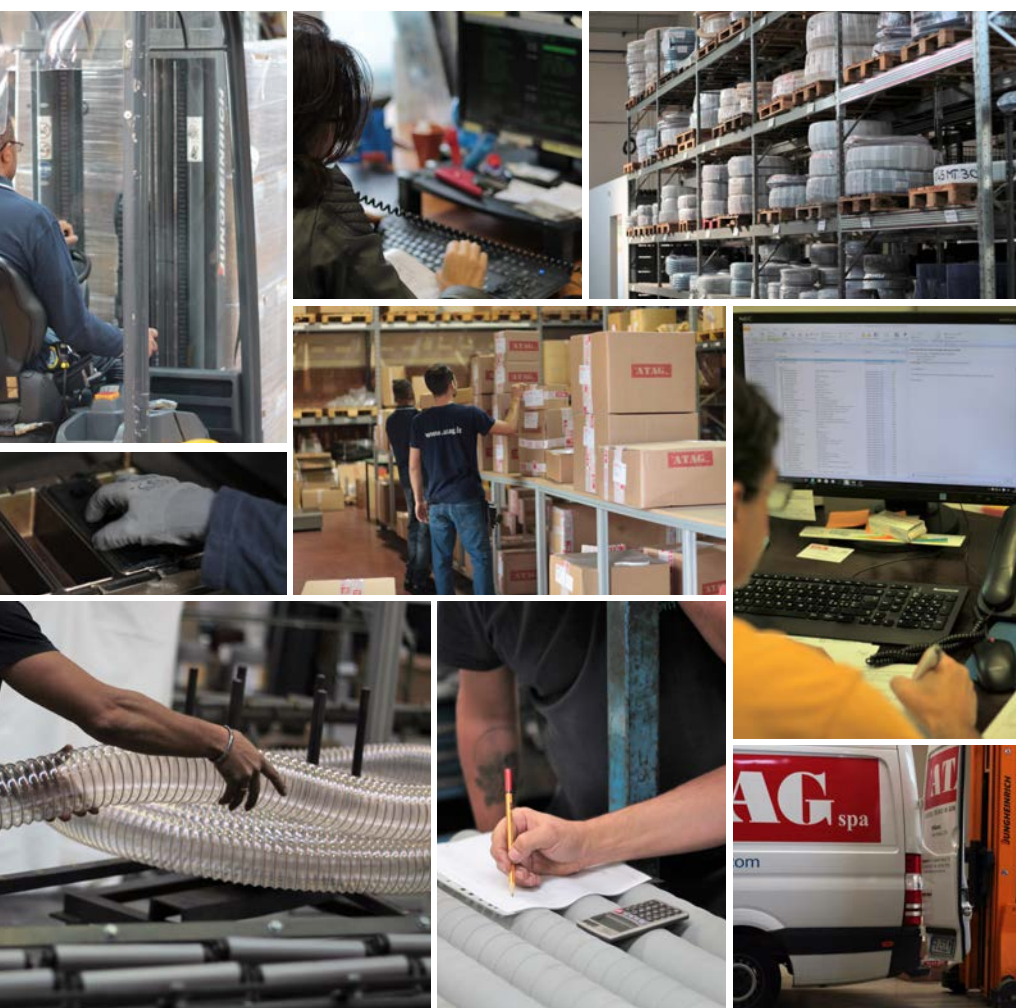
SERVING INDUSTRY SINCE 1947



BIO-PHARMA AND MEDICAL HOSES

Platinum-cured Silicone
Products

PAST, PRESENT, FUTURE



ATAG is serving industry since **1947** and is constantly growing.

The wide range of products, the three domestic locations, the controlled companies, the large warehouses, the extensive sales network, the increasingly stringent internal workings, the website in constant evolution and a service based on the qualified technical expertise offered by our sales department, are the reasons why our customers rely constantly on ATAG.

In recent years we have incorporated complementary companies, using their great competencies to improve our own skills. An efficient export department, our European resellers and long-standing customers, allow us to have a better knowledge of foreign markets and strengthen our presence beyond the Italian borders.

Collaborations and agreements with international prestige partners enable us to offer our country products and solutions that are already appreciated and well established in Europe, and to stimulate our research into improved solutions for the Italian industry.

BIO-PHARMA AND MEDICAL HOSES



These products have been developed as a result of over 25 years of manufacturing experience and are fabricated from silicones made by industry leaders, including **Dow Corning** and **Wacker**.

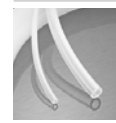
All products are clean room manufactured in compliance with medtech and pharmaceutical industry requirements.

The following criteria apply to all articles of this catalogue:

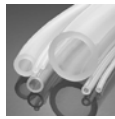
- Materials approved in accordance with **USP Class VI**, **ISO 10993-1**, **FDA 21CFR 177-2600** and **EP 3.1.9** or EP 3.1.9 without appearance of solution
- Exclusive utilization of platinum-cured silicone
- Production and packaging in **ISO Class 8** clean rooms
- Certified manufacturing in compliance with **ISO 13485** quality standards
- Sterilizable in autoclaves, with ethylene oxide and by gamma irradiation
- Material certification in every package
- Lot traceability
- Double bagged and box packaging
- Off-the-shelf availability guarantees short delivery times
- Customer-specific solutions available outside the standard product catalogue



STANDARD SILICON TUBING



CLOSE TOLERANCES SILICONE TUBING



PERISTALTIC PUMP TUBING



COLOR STRIPE TUBING



BRAIDED REINFORCED SILICONE TUBING



SILICON CLAMP GASKETS



PHARMAFOCUS® TUBING



SILICONE STOPPERS

Standard silicon tubing



Biomedical/pharmaceutical grade standard silicone tubing is offered in a full range of sizes in two choices of silicone elastomer: Dow Corning Silastic and Wacker Silicones Corporation. All of our standard silicone tubing is platinum-cured, and contains no additives, plasticizers or peroxide components. The tubing is non-adherent and resists clotting, sticking or encrustation. With the ability to operate at elevated temperatures, it will not oxidize or deteriorate. Rigorous testing, including expanded biocompatibility, provides quality assurance for the most demanding biomedical/pharmaceutical industry standards. Our standard tubing can be sterilized with autoclave, ethylene oxide, or gamma radiation within the user's validated cycles and exposure levels.

Ø inside [mm]	Ø outside [mm]	wall thickness [mm]	ISO FDA USP EP Dow Corning Silastic®	ISO FDA USP Wacker
0,31	0,64	0,15	yes	yes
0,51	0,94	0,20	yes	yes
0,64	1,19	0,28	yes	yes
0,76	1,65	0,46	yes	yes
1,02	2,16	0,58	yes	yes
1,47	1,96	0,23	yes	yes
1,58	2,41	0,41	yes	yes
1,58	3,18	0,81	yes	yes
1,98	3,18	0,61	yes	yes
2,64	4,88	1,12	yes	yes
3,35	4,65	0,66	yes	yes
3,18	6,35	1,59	yes	yes
4,76	7,94	1,59	yes	yes
4,76	9,53	2,38	yes	yes
6,35	9,53	1,59	yes	yes
6,35	11,11	2,38	yes	yes
6,35	12,70	3,18	yes	yes
7,94	12,70	2,38	yes	yes
9,53	12,70	1,59	yes	yes
9,53	14,29	2,38	yes	yes
9,53	15,88	3,18	yes	yes
12,70	17,46	2,38	yes	yes
12,70	19,05	3,18	yes	yes
15,88	22,23	3,18	yes	yes
15,88	23,82	3,97	yes	yes
19,05	25,40	3,18	yes	yes

TYPICAL PROPERTIES AS CURED

Specific Gravity	1,16	1,15
Durometer Hardness [Shore A]	50	55
Tear Strength [Die B, ppi]	262	218
Tensile Strength [Die C, psi]	1473	1385
Elongation [%]	903	771

Values stated are typical values only.

15,24m Coils - Packaged double bagged in crush-resistant boxes.

Material Certification and Lot Traceability included in every box.

Peristaltic pump tubing



Peristaltic pump tubing, manufactured with Wacker Silicon material, meets the strength and durability requirements normally associated with peroxide-cured tubing. Peristaltic pump tubing undergoes a special stabilization process, providing superior strength, performance and longer life. Proven longer wear and volumetric consistency over 8, 12 and 24 hour process runs. Typical hardness: 59 Shore A.

Ø inside [mm]	Ø outside [mm]	wall thickness [mm]	Fits pump tube size	ISO FDA USP
0,51	3,71	1,60	#112	yes
0,79	3,99	1,60	#13	yes
0,99	1,60	0,31	-	yes
1,50	2,52	0,51	-	yes
1,60	4,80	1,60	#14	yes
1,60	6,38	2,39	#119	yes
2,01	3,02	0,51	-	yes
2,52	3,53	0,51	-	yes
3,00	4,01	0,51	-	yes
3,18	6,38	1,60	#16	yes
3,18	7,95	2,39	#120	yes
4,01	5,44	0,71	-	yes
4,78	7,98	1,60	#25	yes
4,78	9,55	2,39	#15	yes
4,78	9,86	2,54	#15TW	yes
4,78	11,13	3,18	#123	yes
6,35	9,55	1,60	#17	yes
6,35	11,13	2,39	#24	yes
6,35	11,43	2,54	#24TW	yes
6,35	12,70	3,18	#26	yes
6,35	13,21	3,43	#26TW	yes
7,95	11,15	1,60	#18	yes
7,95	12,73	2,39	#35/121	yes
7,95	15,98	4,01	#185	yes
9,53	14,30	2,39	#36/122	yes
9,53	15,88	3,18	#73	yes
9,53	16,38	3,43	#73TW	yes
9,53	19,03	4,75	#70/190	yes
12,01	20,03	4,01	#186	yes
12,70	19,05	3,18	#82	yes
12,70	19,56	3,43	#82TW	yes
12,70	22,20	4,75	#88	yes
15,88	22,23	3,18	#184	yes
15,88	25,38	4,75	#189	yes
16,00	24,03	4,01	#187	yes
19,05	28,55	4,75	#191	yes
25,40	34,90	4,75	#92	yes
25,40	35,56	5,08	#92TW	yes

Values stated are typical.

7,5m Coils - Packaged double bagged in crush-resistant boxes.

Material Certification and Lot Traceability included in every box.

TW = Tick Wall (variance between competition pump number).

BIO-PHARMA AND MEDICAL HOSES

Braided reinforced silicone tubing



Manufactured with our proprietary process incorporating strong polyester braiding between extrusion of platinum-cured silicon, our durable reinforced tubing with the identifiable blue spiral is ideally suited increased pressure and/or high temperature applications.

Braided reinforced silicon tubing can be sterilized by autoclave, ethylene oxide or gamma radiation within the user's validated cycles and exposure levels. Typical hardness: 65 shore

Ø inside [mm]	Ø outside [mm]	burst pressure [bar]	ISO FDA USP EP
3,18	9,27	48,60	yes
4,76	11,35	45,10	yes
6,35	13,21	43,40	yes
7,93	15,04	38,20	yes
9,53	16,64	34,80	yes
12,70	20,32	29,60	yes
15,88	24,51	24,50	yes
19,05	27,97	19,30	yes
22,23	31,37	17,60	yes
25,40	34,54	16,00	yes

Values stated are typical.

7,5m Coils - Packaged double bagged in crush-resistant boxes.

Material Certification and Lot Traceability included in every box.

PharmaFocus® tubing



The platinum-cured silicone elastomer used for our **PharmaFocus®** tubing has been designed specifically to fit the needs of the pharmaceutical marketplace.

This silicone undergoes a battery of biocompatibility tests appropriate for pharmaceutical applications, eliminating the costly extended

implant studies typically performed on biomedical grade silicones.

The results: a more cost-effective silicone tubing that delivers consistent quality and the right level of assurance.

Applying more than 25 years of silicone manufacturing experience, our medical consistently strives to meet our number one goal: to instill confidence into every product we make.

This drive to provide peak level of assurance to our customers compels us to meet the highest standards available for our production areas.

PharmaFocus® platinum-cured silicone tubing is available in 11 popular size combinations.

Typical hardenss: 50 shore A.

Ø inside [mm]	Ø outside [mm]	wall thickness [mm]	ISO FDA USP EP
3,18	6,35	1,59	yes
4,76	7,94	1,59	yes
4,76	9,53	2,38	yes
6,35	11,11	2,38	yes
6,35	12,70	3,18	yes
7,94	12,70	2,38	yes
9,53	15,88	3,18	yes
12,70	19,05	3,18	yes
15,88	22,23	3,18	yes
19,05	25,40	3,18	yes
25,40	38,10	6,35	yes

Values stated are typical.

15,24m Coils - Packaged double bagged in crush-resistant boxes.

Material Certification and Lot Traceability included in every box.

Close tolerances silicone tubing



Biomedical/pharmaceutical grade platinum-cured silicone tubing, manufactured with Dow Corning Silastic, provides superior flow properties.

Close tolerances silicone tubing ensures minimal dimension variation, making this tubing appropriate for exacting applications. It can be sterilized with autoclave or ethylene

oxide as well as gamma radiation within the user's validated cycles and exposure levels.

Typical hardness: 50 shore A.

SPECIAL TOLERANCES particularly restricted, provided only for these measures			
Ø inside [mm]	Ø outside [mm]	wall thickness [mm]	ISO FDA USP EP
3,18 (+/- 0,127)	6,35	1,59 (+/- 0,051)	yes
4,76 (+/- 0,127)	7,94	1,59 (+/- 0,051)	yes
6,35 (+/- 0,127)	9,53	1,59 (+/- 0,051)	yes
6,35 (+/- 0,127)	11,13	2,38 (+/- 0,051)	yes
9,53 (+/- 0,127)	14,29	2,38 (+/- 0,051)	yes
9,53 (+/- 0,127)	15,88	3,18 (+/- 0,076)	yes
12,70 (+/- 0,254)	17,46	2,38 (+/- 0,076)	yes
12,70 (+/- 0,254)	19,05	3,18 (+/- 0,076)	yes
15,88 (+/- 0,254)	22,23	3,18 (+/- 0,076)	yes

Values stated are typical values only.

15m Coils - Packaged double bagged in crush-resistant boxes.

Material Certification and Lot Traceability included in every box.

Color stripe tubing



Organize lines at a glance

Color stripe silicone tubing is available with three choices of color striping: red, green and white.

Whether you want to recognize your lines at a glance by application, tubing size, or functional area, color stripe tubing gives you the flexibility to create your own system.

Add non-stripe and custom colors to create as complex a system as necessary.

Typical hardness: 55 shore A.

Ø inside [mm]	Ø outside [mm]	wall thickness [mm]	White/Green/Red Stripe ISO FDA USP EP
3,18	6,35	1,59	si
4,76	9,53	2,38	si
6,35	12,70	3,18	si
7,94	12,70	2,38	si
9,53	15,88	3,18	si
12,70	19,05	3,18	si

Values stated are typical values only.

15m Coils - Packaged double bagged in crush-resistant boxes.

Material Certification and Lot Traceability included in every box.

Please contact customer service for tolerances and custom size requests.

BIO-PHARMA AND MEDICAL HOSES

Silicon clamp gaskets



The Helix biomedical/pharmaceutical grade silicone gaskets are made with our proprietary molding process and engineered geometry to promote crevice-free and protrusion-free processing.

The gaskets have exceptional biocompatibility and contain no contaminants or leachables.

Clamp gaskets are sterilizable by autoclave, ethylene oxide or gamma radiation within the user's validated cycles and exposure levels.

Type	Ø inside [mm]	ISO FDA USP EP
Mini	12,70	si
Mini	19,05	si
Standard	25,40	si
Standard	38,10	si
Standard	50,80	si
Standard	63,50	si
Standard	76,20	si
Standard	101,60	si
Standard	152,40	si

Values stated are typical.

Packaged 25m per zip bag in crush-resistant boxes.

Material Certification and Lot Traceability included in every box.

Silicone stoppers



Pharmaceutical grade silicone stoppers are ideal for tight, reliable seal when used with glass tubes, vials and flasks.

These platinum-cured silicone stoppers have full traceability to raw materials, contain no peroxide catalysts and are autoclavable.

Available in 14 sizes.

Please contact customer service with inquiries about stoppers with pre-drilled holes.

REF.	Ø Top [mm]	Ø Bottom [mm]	Height [mm]	ISO FDA USP EP
000	13	8	25	si
00	15	10	25	si
0	17	13	25	si
1	19	14	25	si
2	20	16	25	si
3	24	18	25	si
4	26	20	25	si
5	27	23	25	si
6	32	30	25	si
7	37	30	25	si
8	41	33	25	si
9	45	37	25	si
10	50	42	25	si
12	64	54	25	si

Values stated are typical.

Packaged 12 pcs. per zip bag in crush-resistant boxes.

Material Certification and Lot Traceability included in every box.

ATAG

SERVING INDUSTRY SINCE 1947



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