

## Silencers


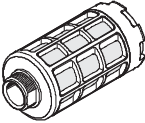





**FESTO**



# Silencers

Product range overview

**FESTO**

Version	Type	Connection D1			Push-in connector	For tubing I.D.	Push-in sleeve diameter	Noise level [dB (A)]	➔ Page/ Internet
		M thread	G thread	NPT thread					
Sintered metal									
	U-PK-3	–	–	–	–	3	–	< 70	4
	U-PK-4	–				4		< 74	
	U-M3	M3				–		< 65	
	U-M5	M5				–		< 70	
Polymer, male thread									
	U-1/8	–	G1/8	–	–	–	–	< 77	5
	U-1/4		G1/4					< 77	
	U-3/8		G3/8					< 82	
	U-1/2		G1/2					< 80	
	U-3/4		G3/4					< 83	
	U-1		G1					< 84	
Polymer, female thread									
	U-1/8-I	–	G1/8	–	–	–	–	< 77	6
Die-cast metal									
	U-1/8-B	–	G1/8	–	–	–	–	< 74	7
	U-1/4-B		G1/4					< 80	
	U-3/8-B		G3/8					< 80	
	U-1/2-B		G1/2					< 80	
	U-3/4-B		G3/4					< 81	
	U-1-B		G1					< 80	
	U-3/4-B-NPT	–	NPT3/4-14	–	–	–	< 81	8	
	U-1-B-NPT	–	NPT1-11½	–	–	–	< 80		
With push-in sleeve for push-in fitting QS, Quick Star									
	UC-QS-3H	–	–	–	–	–	3	< 60	9
	UC-QS-4H						4	< 60	
	UC-QS-6H						6	< 60	
	UC-QS-8H						8	< 60	
	UC-QS-10H						10	< 68	
Threaded connection, for solenoid valves CPE, Compact Performance									
	UC-M5	M5	–	–	–	–	–	< 60	10
	UC-M7	M7	–					< 58	
	UC-1/8	–	G1/8					< 59	
	UC-1/4	–	G1/4					< 60	
Push-in connector, for solenoid valves VUVB-ST12/valve terminals type 23 VTUB-12									
	AMTC-P-PC10	–	–	–	For QSP10	–	–	< 58	11



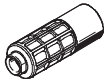

## Note

Clean silencers with kerosene or benzene (not with trichloroethylene).

# Silencers

Product range overview

**FESTO**

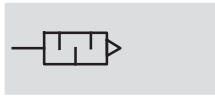
Version	Type	Connection D1			Push-in connector	For tubing I.D.	Push-in sleeve diameter	Noise level [dB (A)]	➔ Page/ Internet
		M thread	G thread	NPT thread					
For vacuum generators VN-T2/T3									
	UO-M7	M7	–	–	–	–	–		12
	UO-1/8	–	G1/8						
	UO-1/4	–	G1/4						
For vacuum generators VN-T4/T6									
	UOM-1/4	–	G1/4	–	–	–	–		13
	UOM-3/8		G3/8						
	UOMS-1/4		–						
	UOMS-3/8		–						
For soft-start and exhaust valve MS6-SV									
	UOS-1	–	G1	–	–	–	–	< 75	ms6-sv
Filter silencer									
	LFU-1/4	–	G1/4	–	–	–	–	< 40	lfu
	LFU-3/8		G3/8						
	LFU-1/2		G1/2						
	LFU-1		G1						

# Silencers U

Technical data – Sintered metal design

FESTO

Function



- For noise reduction and avoiding contamination at the exhaust ports of pneumatic components
- Compact design



General technical data				
Pneumatic connection	PK-3	PK-4	M3	M5
Mounting position	Any			
Noise level <sup>1)</sup> [dB (A)]	< 70	< 74	< 65	< 70
Flow rate with respect to atmosphere <sup>2)</sup> [l/min]	80	150	110	320
Product weight [g]	5	5	4	5

1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

2) Measured at p1 = 6 bar

Operating and environmental conditions	
Operating pressure [bar]	0 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-10 ... +70

Materials	
Threaded plug	Brass
Silencer insert	Bronze
Note on materials	RoHS-compliant

Dimensions				Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>
U-PK-3	U-PK-4	U-M3	U-M5	
1 Barbed fitting for tubing I.D. 3 mm	2 Barbed fitting for tubing I.D. 4 mm			

Ordering data			
Pneumatic connection	Part No.	Type	PU <sup>1)</sup>
PK-3	4646	U-PK-3	10
PK-4	4932	U-PK-4	10
M3	163978	U-M3	10
M5	4645	U-M5	10
	534221	U-M5-50	50

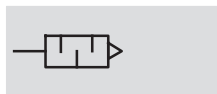
1) Packaging unit

# Silencers U

FESTO

Technical data – Polymer design, male thread

Function



- For noise reduction at the exhaust ports of pneumatic components



General technical data							
Pneumatic connection	G1/8	G1/4	G3/8	G1/2	G3/4	G1	
Mounting position	Any						
Noise level <sup>1)</sup>	[dB (A)]	< 77	< 77	< 82	< 80	< 83	< 84
Flow rate with respect to atmosphere <sup>2)</sup>	[l/min]	2,050	3,400	5,900	10,600	15,000	19,900
Product weight	[g]	2	8	30	58	83	140

1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

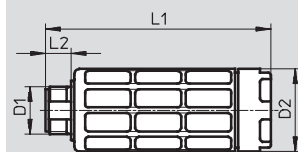
2) Measured at p1 = 6 bar

Operating and environmental conditions	
Operating pressure	[bar] 0 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature	[°C] -10 ... +70

Materials	
Housing	Polyacetal
Silencer insert	Polyethylene
Note on materials	Free of copper and PTFE
	RoHS-compliant

## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



Ordering data						
Pneumatic connection	D2	L1	L2	Part No.	Type	PU <sup>1)</sup>
D1	Ø					
G1/8	15.2	35.9	5.5	2307	U-1/8	1
				534222	U-1/8-50	50
G1/4	19	57	6.5	2316	U-1/4	1
				534223	U-1/4-20	20
G3/8	33.5	78.8	7.5	2309	U-3/8	1
				534224	U-3/8-20	20
G1/2	43	88.1	9	2310	U-1/2	1
				534225	U-1/2-20	20
G3/4	45	120.7	10.5	2311	U-3/4	1
G1	55	126.5	11.5	2312	U-1	1

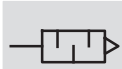
1) Packaging unit

# Silencers U

Technical data – Polymer design, female thread

FESTO

Function



- For noise reduction at the exhaust ports of pneumatic components



General technical data		
Pneumatic connection		G $\frac{1}{8}$
Mounting position		Any
Noise level <sup>1)</sup>	[dB (A)]	< 77
Flow rate with respect to atmosphere <sup>2)</sup>	[l/min]	2,050
Product weight	[g]	4

1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

2) Measured at p<sub>1</sub> = 6 bar

Operating and environmental conditions		
Operating pressure	[bar]	0 ... 10
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature	[°C]	-10 ... +70

Materials	
Housing	Polyacetal
Silencer insert	Polyethylene
Note on materials	Free of copper and PTFE
	RoHS-compliant

Dimensions	Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>

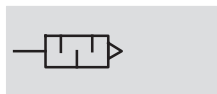
Ordering data		
Pneumatic connection	Part No.	Type
G $\frac{1}{8}$	3670	U- $\frac{1}{8}$ -I

# Silencers U

Technical data – Die-cast design

**FESTO**

Function



- For noise reduction at the exhaust ports of pneumatic components



General technical data						
Pneumatic connection	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$	G $\frac{1}{2}$	G $\frac{3}{4}$	G1
Mounting position	Any					
Noise level <sup>1)</sup> [dB (A)]	< 74	< 80	< 80	< 80	< 81	< 80
Flow rate with respect to atmosphere <sup>2)</sup> [l/min]	1,204	2,838	5,734	7,622	13,266	15,102
Product weight [g]	8	17	37	75	120	233

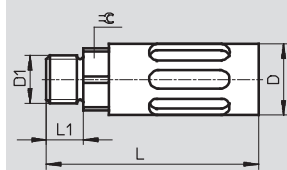
1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

2) Measured at p<sub>1</sub> = 6 bar

Operating and environmental conditions	
Operating pressure [bar]	0 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible
Ambient temperature [°C]	-10 ... +70

Materials	
Housing	Die-cast aluminium
Silencer insert	PE
Note on materials	Free of copper and PTFE
	RoHS-compliant

## Dimensions Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



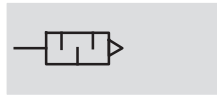
Ordering data						
Pneumatic connection	D	L	L1	≡	Part No.	Type
D1	∅					
G $\frac{1}{8}$	16	39.2	5.5	14	6841	U- $\frac{1}{8}$ -B
G $\frac{1}{4}$	19.5	55.6	6.5	17	6842	U- $\frac{1}{4}$ -B
G $\frac{3}{8}$	25	86.6	7.5	19	6843	U- $\frac{3}{8}$ -B
G $\frac{1}{2}$	28	116.5	9	24	6844	U- $\frac{1}{2}$ -B
G $\frac{3}{4}$	38	138	10.5	32	6845	U- $\frac{3}{4}$ -B
G1	47.8	177	11.5	36	151990	U-1-B

## Silencers U

Technical data – Die-cast design, NPT

**FESTO**

Function



- For noise reduction at the exhaust ports of pneumatic components



General technical data			
Pneumatic connection		NPT $\frac{3}{4}$ -14	NPT1-1 $\frac{1}{2}$
Mounting position		Any	
Noise level <sup>1)</sup>	[dB (A)]	< 81	< 80
Flow rate with respect to atmosphere <sup>2)</sup>	[l/min]	11,834	15,102
Product weight	[g]	128	233

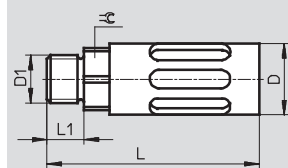
1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

2) Measured at p<sub>1</sub> = 6 bar

Operating and environmental conditions	
Operating pressure	[bar] 0 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature	[°C] -10 ... +70

Materials	
Housing	Die-cast aluminium
Threaded plug	Wrought aluminium alloy
Silencer insert	PE
Note on materials	Free of copper and PTFE
	RoHS-compliant

### Dimensions Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



Ordering data						
Pneumatic connection	D	L	L1	$\approx \varnothing$	Part No.	Type
D1	Ø					
NPT $\frac{3}{4}$ -14	38	151	18	30	566823	U- $\frac{3}{4}$ -B-NPT
NPT1-1 $\frac{1}{2}$	47.8	193.3	22.5	41	571280	U-1-B-NPT

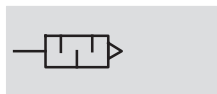


# Silencers UC

FESTO

Technical data – Design with push-in sleeve

Function



- For noise reduction at the exhaust ports of pneumatic components
- For QS push-in connectors 3 ... 10 mm



General technical data					
Push-in sleeve diameter	3	4	6	8	10
Mounting position	Any				
Noise level <sup>1)</sup> [dB (A)]	< 60	< 60	< 60	< 60	< 68
Flow rate with respect to atmosphere <sup>2)</sup> [l/min]	170	350	800	1,500	3,100
Product weight [g]	0.4	0.5	1.1	2.3	5.5

1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

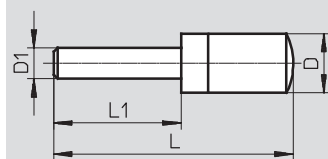
2) Measured at p<sub>1</sub> = 6 bar

Operating and environmental conditions	
Operating pressure [bar]	0 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-10 ... +70

Materials	
Threaded plug	PE
Silencer insert	PE
Note on materials	RoHS-compliant

## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



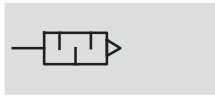
Ordering data					
Push-in sleeve diameter D1	D Ø	L	L1	Part No.	Type
3	7.8 +0.1/-0.3	29.1 ±0.6	14.4 ±0.2	165005	UC-QS-3H
4	7.8 +0.1/-0.3	31.0 ±0.6	16.3 ±0.2	165006	UC-QS-4H
6	9.8 -0.4	41.3 +1.4	17.2	165007	UC-QS-6H
8	13.8 +0.2/-0.3	54.4 +0.5/-1.0	23.4	175611	UC-QS-8H
10	17.8 -0.3	68.7 +0.2/-0.8	26.7	526475	UC-QS-10H

# Silencers UC

Technical data – Design with threaded connection

FESTO

Function



- For noise reduction at the exhaust ports of pneumatic components
- For solenoid valves CPE, Compact Performance



General technical data				
Pneumatic connection	M5	M7	G1/8	G1/4
Mounting position	Any			
Noise level <sup>1)</sup> [dB (A)]	< 60	< 58	< 59	< 60
Flow rate with respect to atmosphere <sup>2)</sup> [l/min]	350	800	1,700	3,200
Product weight [g]	0.4	1.2	2.6	5.2

1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

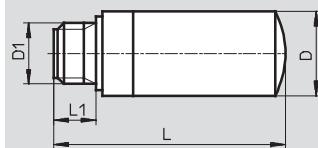
2) Measured at p1 = 6 bar

Operating and environmental conditions	
Operating pressure [bar]	0 ... 10
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium	Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature [°C]	-10 ... +70

Materials	
Threaded plug	PE
Silencer insert	PE
Note on materials	RoHS-compliant

## Dimensions

Download CAD Data → [www.festo.com/us/cad](http://www.festo.com/us/cad)



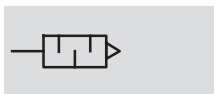
Ordering data						
Pneumatic connection	D	L	L1	Part No.	Type	PU <sup>1)</sup>
D1	Ø					
M5	7.8 +0.1/-0.3	19.4 +0.6/-0.8	4.5 ±0.2	165003	UC-M5	1
				534217	UC-M5-50	50
M7	9.8 -0.4	30.7 +0.6/-0.8	5.5 -0.5	161418	UC-M7	1
				534218	UC-M7-50	50
G1/8	13.8 +0.2/-0.3	38.0 +0.8/-1.0	6.5 ±0.1	161419	UC-1/8	1
				534219	UC-1/8-50	50
G1/4	17.8 -0.3	50.8 +0.8/-1.0	8.5 ±0.15	165004	UC-1/4	1
				534220	UC-1/4-20	20

1) Packaging unit

# Silencers AMTC

Technical data

## Function



- For solenoid valves VUVB-ST12/ valve terminals type 23 VTUB-12
- Attached via PIN (spring clip), included in the scope of delivery of the valve



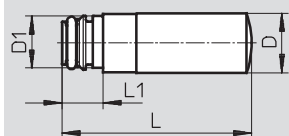
General technical data		
Pneumatic connection		For QSP10
Mounting position		Any
Noise level <sup>1)</sup>	[dB (A)]	≤ 58
Flow rate with respect to atmosphere <sup>2)</sup>	[l/min]	800
Product weight	[g]	2.0

1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

2) Measured at p1 = 6 bar

Operating and environmental conditions		
Operating pressure	[bar]	0 ... 10
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:-:-]
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)
Ambient temperature	[°C]	-5 ... +60

Materials	
Threaded plug	PE
Silencer insert	PE
Note on materials	RoHS-compliant

Dimensions	Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>
	

Ordering data							
Pneumatic connection	D Ø	D1 Ø	L	L1	Part No.	Type	PU <sup>1)</sup>
For QSP10	9.8	8.9	31.4	6.8	1224460	AMTC-P-PC10	1

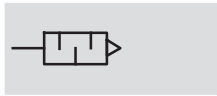
1) Packaging unit

# Silencers UO

Technical data

FESTO

Function



- Use only for vacuum generators VN-T2/T3
- Special minimal resistance silencer
- Facilitates trouble-free operation of the vacuum generator



General technical data			
Pneumatic connection	M7	G1/8	G1/4
Mounting position	Any		
Product weight [g]	2.5	5	8

Operating and environmental conditions	
Operating pressure of vacuum generator [bar]	0 ... 8
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [7:4:4]
Ambient temperature [°C]	-10 ... +60
Corrosion resistance class CRC <sup>1)</sup>	2

1) Corrosion resistance class 2 according to Festo standard 940 070  
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Materials	
Threaded plug	Polyethylene
Silencer insert	Polyethylene
Note on materials	Free of copper and PTFE

Dimensions		Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>

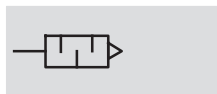
Ordering data						
Pneumatic connection	D	D2	L	L1	Part No.	Type
D1	Ø					
M7	9.8	3	36.7	5.5	197582	UO-M7
G1/8	13.8	3.5	48	6.5	197583	UO-1/8
G1/4	17.8	5.3	62.3	8.5	197584	UO-1/4

# Silencers UOM/silencer extensions UOMS

FESTO

Technical data

Function



- Use only for vacuum generators VN-T4/T6
- Special minimal resistance silencer
- Facilitates trouble-free operation of the vacuum generator
- Silencer extension for extending the silencer for further noise reduction



General technical data				
Type	UOM-1/4	UOM-3/8	UOMS-1/4	UOMS-3/8
Pneumatic connection	G1/4	G3/8	–	
Design	Silencer, open			
Type of mounting	Screw-in		Engaging	
Mounting position	Any			
Type of seal on threaded plug	No seal			
Product weight [g]	11.1	22.7	8.6	17.5

Operating and environmental conditions	
Operating pressure of vacuum generator [bar]	0 ... 8
Operating medium	Compressed air in accordance with ISO 8573-1:2010 [–:–:–]
Ambient temperature [°C]	0 ... +60
Corrosion resistance class CRC <sup>1)</sup>	2

1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents

Materials	
Housing	Polyacetal
Inner pipe	Wrought aluminium alloy
Threaded plug	Polyacetal
Silencer insert	Polyurethane foam
Note on materials	Free of copper and PTFE
	Contains PWIS (paint-wetting impairment substances)

Dimensions	Download CAD Data → <a href="http://www.festo.com/us/cad">www.festo.com/us/cad</a>
<div> <div>UOM</div> </div> <div> <div>UOMS</div> </div>	

Ordering data						
Pneumatic connection	D	D2	L	L1	L2	Part No. Type
D1	Ø	Ø				
Silencer						
G1/4	17.8	–	73	8	10	538432 UOM-1/4
G3/8	23.8	–	74	8.6	10.5	538433 UOM-3/8
Silencer extension						
–	17.8	16	64.5	–	10	538436 UOMS-1/4
–	23.8	22	65.2	–	10.5	538437 UOMS-3/8

## Product Range and Company Overview

### A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



**Custom Automation Components**  
Complete custom engineered solutions



**Custom Control Cabinets**  
Comprehensive engineering support and on-site services



**Complete Systems**  
Shipment, stocking and storage services

### The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



**Electromechanical**  
Electromechanical actuators, motors, controllers & drives



**Pneumatics**  
Pneumatic linear and rotary actuators, valves, and air supply



**PLCs and I/O Devices**  
PLC's, operator interfaces, sensors and I/O devices

### Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 12,000 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

### Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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# Festo North America

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