

Silencers


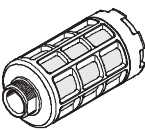





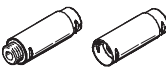
FESTO



Silencers

Product range overview

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Version	Type	Connection D1			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
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	
For vacuum generators VN-T2/T3								
	UO-M7	M7	–	–	–	–		11
	UO-1/8	–	G1/8	–	–	–		
	UO-1/4	–	G1/4	–	–	–		
For vacuum generators VN-T4/T6								
	UOM-1/4	–	G1/4	–	–	–		12
	UOM-3/8	–	G3/8	–	–	–		
	UOMS-1/4	–	–	–	–	–		
	UOMS-3/8	–	–	–	–	–		

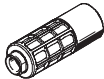

Note

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

Silencers

Product range overview

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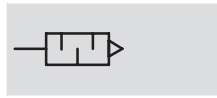
Version	Type	Connection D1			For tubing I.D.	Push-in sleeve diameter	Noise level [dB (A)]	→ Page/ Internet
		M thread	G thread	NPT thread				
For soft-start and exhaust valve MS6-SV								
	UOS-1	–	G1	–	–	–	< 75	ms6-sv
Filter silencer								
	LFU-1/4	–	G1/4	–	–	–	< 40	lfu
	LFU-3/8		G3/8					
	LFU-1/2		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 ¹⁾ [dB (A)]	< 70	< 74	< 65	< 70
Flow rate with respect to atmosphere ²⁾ [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	Filtered compressed air, lubricated or unlubricated Dried compressed air, lubricated or unlubricated
Ambient temperature [°C]	-10 ... +70

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

Dimensions				Download CAD Data → www.festo.com/us/cad
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 ¹⁾
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

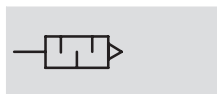
1) Packaging unit

Silencers U

Technical data – Polymer design, male thread

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 ¹⁾	[dB (A)]	< 77	< 77	< 82	< 80	< 83
Flow rate with respect to atmosphere ²⁾	[l/min]	2,050	3,400	5,900	10,600	15,000
Product weight	[g]	2	8	30	58	83
						140

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

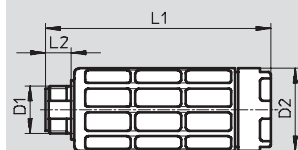
2) Measured at p₁ = 6 bar

Operating and environmental conditions	
Operating pressure	[bar] 0 ... 10
Operating medium	Filtered compressed air, lubricated or unlubricated Dried compressed air, lubricated or unlubricated
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



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

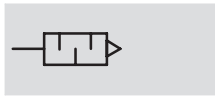
1) Packaging unit

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 ¹⁾	[dB (A)]	< 77
Flow rate with respect to atmosphere ²⁾	[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 p₁ = 6 bar

Operating and environmental conditions		
Operating pressure	[bar]	0 ... 10
Operating medium		Filtered compressed air, lubricated or unlubricated
		Dried compressed air, lubricated or unlubricated
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

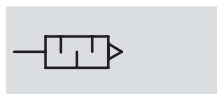
Ordering data		
Pneumatic connection	Part No.	Type
G $\frac{1}{8}$	3670	U- $\frac{1}{8}$ -I

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 ¹⁾	[dB (A)]	< 74	< 80	< 80	< 80	< 81
Flow rate with respect to atmosphere ²⁾	[l/min]	1,204	2,838	5,734	7,622	13,266
Product weight	[g]	8	17	37	75	120
						233

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

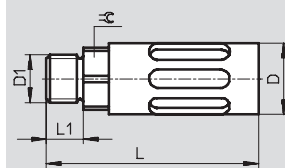
2) Measured at p₁ = 6 bar

Operating and environmental conditions	
Operating pressure	[bar] 0 ... 10
Operating medium	Filtered compressed air, lubricated or unlubricated
	Dried compressed air, lubricated or unlubricated
Ambient temperature	[°C] -10 ... +70

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

Dimensions

Download CAD Data → www.festo.com/us/cad



Ordering data						
Pneumatic connection	D	L	L1	≡	Part No.	Type
D1	Ø					
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



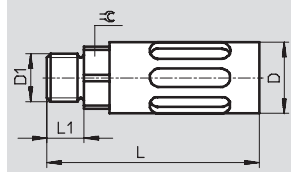
General technical data		
Pneumatic connection		NPT $\frac{3}{4}$ -14
Mounting position		Any
Noise level ¹⁾	[dB (A)]	< 81
Flow rate with respect to atmosphere ²⁾	[l/min]	11,834
Product weight	[g]	128


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		Filtered compressed air, lubricated or unlubricated
Ambient temperature	[°C]	-10 ... +70

Materials	
Housing	Die-cast aluminium
Threaded plug	Wrought aluminium alloy
Silencer insert	Polyethylene
Note on materials	RoHS-compliant

Dimensions		Download CAD Data → www.festo.com/us/cad
		

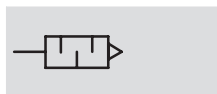
Ordering data						
Pneumatic connection	D	L	L1		Part No.	Type
D1	Ø					
NPT $\frac{3}{4}$ -14	38	151	18	30	566823	U- $\frac{3}{4}$ -B-NPT

Silencers UC

Technical data – Design with push-in sleeve

FESTO

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 ¹⁾ [dB (A)]	< 60	< 60	< 60	< 60	< 68
Flow rate with respect to atmosphere ²⁾ [l/min]	170	350	800	1,500	3,100
Product weight [g]	0.4	0.5	1.1	2.3	5.5

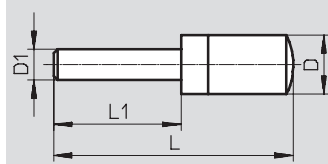
1) Measured at 6 bar with respect to atmosphere at a distance of 1 m

2) Measured at p1 = 6 bar

Operating and environmental conditions	
Operating pressure [bar]	0 ... 10
Operating medium	Filtered compressed air, lubricated or unlubricated
Ambient temperature [°C]	-10 ... +70

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

Dimensions Download CAD Data → www.festo.com/us/cad



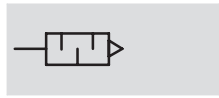
Ordering data					
Push-in sleeve diameter D1	D Ø	L	L1	Part No.	Type
3	7.8	29.1	14.4	165005	UC-QS-3H
4	7.8	31.0	16.3	165006	UC-QS-4H
6	9.8	41.3	17.2	165007	UC-QS-6H
8	13.8	54.4	23.4	175611	UC-QS-8H
10	17.8	68.7	26.7	526475	UC-QS-10H

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 ¹⁾ [dB (A)]	< 60	< 58	< 59	< 60
Flow rate with respect to atmosphere ²⁾ [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	Filtered compressed air, lubricated or unlubricated
Ambient temperature [°C]	-10 ... +70

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

Dimensions	Download CAD Data → www.festo.com/us/cad

Ordering data						
Pneumatic connection	D	L	L1	Part No.	Type	PU ¹⁾
D1	Ø					
M5	7.8	19.4	4.5	165003	UC-M5	1
				534217	UC-M5-50	50
M7	9.8	30.0	5.5	161418	UC-M7	1
				534218	UC-M7-50	50
G1/8	13.8	38.0	6.5	161419	UC-1/8	1
				534219	UC-1/8-50	50
G1/4	17.8	51.0	8.5	165004	UC-1/4	1
				534220	UC-1/4-20	20

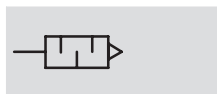
- 1) Packaging unit

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	Dried compressed air
Ambient temperature [°C]	-10 ... +60
Corrosion resistance class CRC ¹⁾	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 → www.festo.com/us/cad

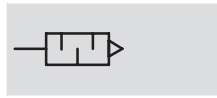
Ordering data					
Pneumatic connection	D	D2	L	L1	Part No. Type
D1	Ø				
M7	9.8	3	36.7	5.5	197582 UO-M7
G1/8	13.8	3.5	48	6.5	197583 UO-1/8
G1/4	17.8	5.3	62.3	8.5	197584 UO-1/4

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
Ambient temperature [°C]	0 ... +60
Corrosion resistance class CRC ¹⁾	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 → www.festo.com/us/cad
UOM	UOMS	

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



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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.

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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

Festo Regional Contact Center

5300 Explorer Drive
Mississauga, Ontario L4W 5G4
Canada

USA Customers:

For ordering assistance,

Call: 1.800.99.FESTO (1.800.993.3786)

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Canadian Customers:

Call: 1.877.GO.FESTO (1.877.463.3786)

Fax: 1.877.FX.FESTO (1.877.393.3786)

Email: festo.canada@ca.festo.com

USA Headquarters

Festo Corporation
395 Moreland Road
P.O. Box 18023
Hauppauge, NY 11788, USA
www.festo.com/us

USA Sales Offices

Appleton

North 922 Tower View Drive, Suite N
Greenville, WI 54942, USA

Boston

120 Presidential Way, Suite 330
Woburn, MA 01801, USA

Chicago

1441 East Business Center Drive
Mt. Prospect, IL 60056, USA

Dallas

1825 Lakeway Drive, Suite 600
Lewisville, TX 75057, USA

Detroit – Automotive Engineering Center

2601 Cambridge Court, Suite 320
Auburn Hills, MI 48326, USA

New York

395 Moreland Road
Hauppauge, NY 11788, USA

Silicon Valley

4935 Southfront Road, Suite F
Livermore, CA 94550, USA

United States



USA Headquarters, East: Festo Corp., 395 Moreland Road, Hauppauge, NY 11788

Phone: 1.631.435.0800; Fax: 1.631.435.8026;

Email: info@festo-usa.com

www.festo.com/us

Canada



Headquarters: Festo Inc., 5300 Explorer Drive, Mississauga, Ontario L4W 5G4

Phone: 1.905.624.9000; Fax: 1.905.624.9001;

Email: festo.canada@ca.festo.com

www.festo.ca

Mexico



Headquarters: Festo Pneumatic, S.A., Av. Ceylán 3, Col. Tequesquahuac,
54020 Tlalneapantla, Edo. de México

Phone: 011 52 [55] 53 21 66 00; Fax: 011 52 [55] 53 21 66 65;

Email: festo.mexico@mx.festo.com

www.festo.com/mx

Central USA

Festo Corporation
1441 East Business
Center Drive
Mt. Prospect, IL 60056, USA
Phone: 1.847.759.2600
Fax: 1.847.768.9480



Western USA

Festo Corporation
4935 Southfront Road,
Suite F
Livermore, CA 94550, USA
Phone: 1.925.371.1099
Fax: 1.925.245.1286



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