

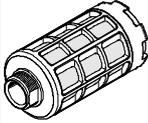
Silencers



Silencers

Product range overview

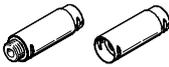
FESTO

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
U-1-B-NPT	–	–	NPT1-11 1/2	–	–	–	–	< 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

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

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	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 → www.festo.com
U-PK-3	U-PK-4	U-M3	U-M5	
<p>1) Barbed fitting for tubing I.D. 3 mm</p>	<p>2) Barbed fitting for tubing I.D. 4 mm</p>			

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

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 ¹⁾	[dB (A)]	< 77	< 77	< 82	< 80	< 83	< 84
Flow rate with respect to atmosphere ²⁾	[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

Ordering data						
Pneumatic connection	D2	L1	L2	Part No.	Type	PU ¹⁾
D1	∅					
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

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		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

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

Silencers U

Technical data – Die-cast design

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	< 80
Flow rate with respect to atmosphere ²⁾	[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 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
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

Ordering data						
Pneumatic connection	D	L	L1	\approx	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

Function



- For noise reduction at the exhaust ports of pneumatic components



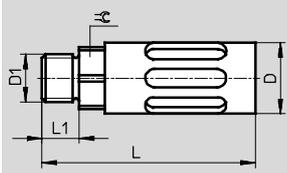
General technical data		
Pneumatic connection	NPT $\frac{3}{4}$ -14	NPT1-11 $\frac{1}{2}$
Mounting position	Any	
Noise level ¹⁾	[dB (A)] < 81	< 80
Flow rate with respect to atmosphere ²⁾	[l/min] 11,834	15,102
Product weight	[g] 128	233

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



Ordering data						
Pneumatic connection	D	L	L1		Part No.	Type
D1	∅					
NPT $\frac{3}{4}$ -14	38	151	18	30	566823	U-$\frac{3}{4}$-B-NPT
NPT1-11 $\frac{1}{2}$	47.8	193.3	22.5	41	571280	U-1-B-NPT

Silencers UC

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



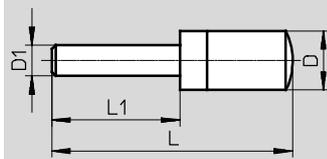
General technical data						
Push-in sleeve diameter		3	4	6	8	10
Mounting position		Any				
Noise level ¹⁾	[dB (A)]	< 60	< 60	< 60	< 60	< 68
Flow rate with respect to atmosphere ²⁾	[l/min]	170	350	800	1,500	3,100
Product weight	[g]	0.4	0.5	1.1	2.3	5.5

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	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



Ordering data					
Push-in sleeve diameter	D	L	L1	Part No.	Type
D1	∅				
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

Function



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



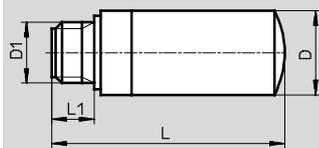
General technical data					
Pneumatic connection		M5	M7	G1/8	G1/4
Mounting position		Any			
Noise level ¹⁾	[dB (A)]	< 60	< 58	< 59	< 60
Flow rate with respect to atmosphere ²⁾	[l/min]	350	800	1,700	3,200
Product weight	[g]	0.4	1.2	2.6	5.2

- 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	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



Ordering data						
Pneumatic connection	D	L	L1	Part No.	Type	PU ¹⁾
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



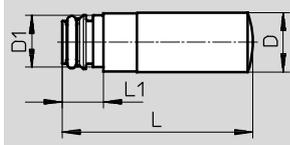
General technical data		For QSP10
Pneumatic connection		For QSP10
Mounting position		Any
Noise level ¹⁾	[dB (A)]	≤ 58
Flow rate with respect to atmosphere ²⁾	[l/min]	800
Product weight	[g]	2.0

- 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 → www.festo.com



Ordering data							
Pneumatic connection	D	D1	L	L1	Part No.	Type	PU ¹⁾
	∅	∅					
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 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

Ordering data						
Pneumatic connection	D	D2	L	L1	Part No.	Type
D1	∅					
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

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 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

UOM

UOMS

Download CAD data → www.festo.com

Ordering data							
Pneumatic connection	D	D2	L	L1	L2	Part No.	Type
D1	∅	∅					
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