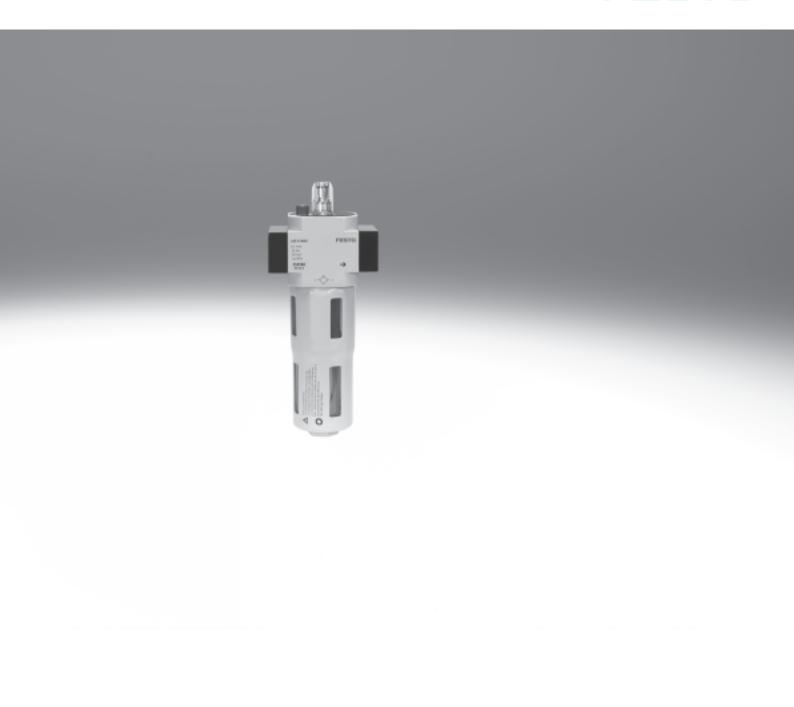
## **Lubricators LOE, D series**

## **FESTO**





Туре		Size	Pneun	natic co	onnectio	on							Pressi regula [bar]	ure ition ra	nge	Grade	of filtra	ation	
													0.5	0.5	2.5				
			M5	M7	G½8	G <sup>1</sup> / <sub>4</sub>	G3/8	G½	G3/4	G1	QS4	QS6	 7	 12	 12	0.01	1	5	40
Service units		_	-									_							
FRC/FRCS	Ω.	Micro				l –	l –	l –	l –	l –				l –	T -	I -	_		l –
		Mini	-	-			•	-	-	-	-	-			_	_	_		
	749	Midi	-	-	-		•			-	-	-			_	_	_		
		Maxi	-	_	-	_	_				-	-			_	-	-		
	ਝ	1	1	1	L	L	<u> </u>	I	<u> </u>	I		<u> </u>	1	L	1	<u> </u>	<u> </u>	<u> </u>	
Service unit com	binations																		
FRC-K		Micro	-																
		Mini	-	-			-	-	-	-	-	-	-			-	-	-	
		Midi	-	-	-				-	-	-	-	-			-	-	-	
		Maxi	-	-	-	-	-			-	-	-	-			-	-	-	
LFR-K		Micro	-																
LFRS-K		Mini	-	-			-	_	-	_	-	-	-			-	-	-	
		Midi	-	-	-				-	-	-	-	-			-	-	-	
	Ū	Maxi	-	-	-	-	-			-	-	-	-			-	-	-	
		1																	
Individual device	es																		
Filter		Micro				-	-	-	-	-				-	-	-	-		-
regulators		Mini	-	-				-	-	-	-	-			-	-	-		
LFR/LFRS		Midi	-	-	-					-	-	-		•	-	-	-		
	(I)	Maxi	-	-	-	-	-				-	-			-	-	-		
		•										•							
Filters	$\sim$	Micro				-	-	-	-	-			-	-	-	-	-		-
LF		Mini	-	-				-	-	-	-	-	-	-	-	-	-		
		Midi	-	-	-					-	-	-	-	-	-	-	-		
	Ų.	Maxi	-	-	-	-	-				-	-	-	-	-	-	-		
Fine and micro		Micro	-																
filters		Mini	-	-				-	-	-	-	-	-	-	-			-	-
LFMA/LFMB		Midi	-	-	-					-	-	-	-	-	-			-	-
	<u>"</u>	Maxi	-	-	-	-	-				-	-	-	-	-			-	-
Active carbon		Micro	-																
filters		Mini	-	-				-	-	-	-	-	-	-	-	-	-	-	-
LFX		Midi	-	-	-	•			•	-	-	-	-	-	-	-	-	-	-
	<b>"</b>	Maxi	-	-	-	-	-				-	-	-	-	-	-	-	-	-
Filter		Micro	-																
combinations		Mini	-	-	•	•		-	-	-	-	-	-	-	-			-	-
LFMBA		Midi	-	-	-	•		•	•	-	-	-	-	-	-	•	•	-	-
	als.	Maxi	-	-	-	-	-				-	-	-	-	-			-	-
Pressure		Micro			•	-	-	-	-	-	•	•		-	-	-	-	-	-
regulators		Mini	-	-				-	-	-	-	-		•	-	-	-	-	-
LR/LRS		Midi	-	-	-					-	-	-		•	-	-	-	-	-



Туре	Size	Bowl g	uard	Conde	nsate dr	ain	Pressu		Actuat	or lock	Supply	y voltage	e	Options			→ Page/ Internet
		Metal bowl guard	Plastic bowl	Manual rotary	Semi-automatic	Fully automatic	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC	Directly actuated pressure regulator with integrated return flow function	Pilot actuated pressure regulator with integrated return flow function	Differential pressure indicator	
Service units																	
FRC/FRCS	Micro	-				-		•		-	-	-	-	-	-	-	frc
	Mini	•	-		-	•		•	•		-	-	-	-	-	-	
	Midi	•	-		-	•		•	•		-	-	-	-	-	-	
	Maxi		-		-						-	-	-			-	
					_	_		_					_			_	
Service unit com																	Le
FRC-K	Micro	-	ı	1 -	ı		1 -	ı		ı	ı	ı	ı				frc
	Mini	•	-		-		•	-	•	-	-	-	-	-	-	-	
	Midi	•	-	•	-	-	-	-	•	-	-	-	-	-	-	-	
LED II	Maxi	•	-		-			-		-	_	-	_			-	16
LFR-K	Micro	-					1 _					1					lfr
LFRS-K	Mini	•	-	-	-	•	-	-	•	•	•	-	-	-	-	-	
	Midi	•	-	-	-	•	-	-	•	-	•	-	-	-	-	-	
	Maxi		-		-			-				-	-		•	-	
Individual devic	0.5																
Filter	Micro	_				_				T -	l _	Ι _	l _	l –	I –	_	lfr
regulators	Mini		_		-		H	-	-		_	_	_	_	_	_	-
LFR/LFRS	Midi		_		_		+-	-	-		_	_	_	_	_	_	-
	Maxi	-	_		_	_		-	-		_	_	_		-	_	
	Maxi												l				
Filters	Micro	_				_	-	_	_	_	_	_	_	_	_	_	lf
LF	Mini		_		-	•	-	-	-	_	-	_	_	_	_	_	
	Midi		_		-	•	-	-	-	_	-	_	_	_	_	_	
	Maxi	•	-		-	-	-	-	-	-	-	-	-	-	-	_	-
Fine and micro	Micro	-		1						1		1		1			lfma, lfmb
filters	Mini	•	-		-		-	-	-	-	-	-	-	-	-		1
LFMA/LFMB	Midi	•	-		-		-	-	-	-	-	-	-	-	-		1
	Maxi	•	-		-		-	-	-	-	-	-	-	-	-		1
Active carbon	Micro	-															lfx
filters	Mini	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LFX	Midi	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Maxi		-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Filter	Micro	-															lfmba
combinations	Mini	-	-		-		-	-	-	-	-	-	-	-	-		]
LFMBA	Midi	•	-	•	-		-	-	-	-	-	-	-	-	-		]
	Maxi		-		-		-	-	-	-	-	-	-	-	-		
Pressure	Micro	-	-	-	-	-		•	•	-	-	-	-	-	-	-	lr
regulators	Mini	-	-	-	-	-				•	-	-	-		-	-	
LR/LRS	Midi	-	-	-	-	-		•	•	•	-	-	-		-	-	
	Maxi	-	-	-	-	-					-	-	-			-	1



Mini	Туре		Size	Pneumat										Pressure regulatio [bar]	
Micro				M5	M7	<b>G¹∕</b> 8	G <sup>1</sup> ⁄4	<b>G</b> ³⁄8	G½	G <sup>3</sup> /4	G1	054	056		
Pressure regulators   Micro	Individual devic	ces													
Midi	Pressure	0	Micro	l –											
Midi	regulators		Mini	-	-	-		-	-	-	-	-	-		
Maxi			Midi	_	-	_	_		-	-	_	-	-	•	
Micro	,	TOTO .		_	1	1		I	I	1	I	1	1		
Minit	Pressure	<u> </u>		_											
Midi				ļ	_	_			_	_	-	_	_		
Micro	combinations			ļ	ļ	ļ				ļ		ļ	ļ		
Lubricators  Libricators  Mirio  Mini  Maxi		1010		ļ	<u>I</u>	<u>I</u>	<u> </u>			<u> </u>	<u> </u>	<u>I</u>	<u>I</u>		
Mini			····a/··												
Mini	Lubricators		Micro				l –	_	_	I -	_			_	_
Midi					ļ								ļ	<b> </b>	
Maxi	101					ļ							ļ	ļ	
On-off valves HE    Micro   -				ļ	ļ							ļ		ļ	
Mini			IVIdXI	_	_	_	_	_	-	-	-	_	_	_	
Mini	On official con		Mioro												
Midi								_	I		ı				
Maxi	HE														
Micro				ļ		ļ						ļ		ļ	
Mini	0 " 1				-	-	-	-		•		-	_	-	_
Micro   Micro   Micro   Micro   Midi   Micro   Midi   Mi				ļ					1						
Maxi				-	-	•					-	-	-	-	-
On-off valves, pneumatic  HEP    Mini	HEE			-		-							-	-	-
Mini				-	-	-	-	-				-	-	-	-
Midi	On-off valves,		Micro	-											
Maxi	pneumatic		Mini	-	-		-		-	-	-	-	-	-	-
Micro	HEP		Midi	-	-	-	-			-	-	-	-	-	-
Mini			Maxi	-	-	-	-	-		•		-	-	-	-
Membrane air dryers         Micro         -	Soft-start		Micro	-	•	•	•			•		•	•	•	-
Maxi	valves		Mini	-	-				-	-	-	-	-	-	-
Maxi	HEL		Midi	-	-	_	•		•	•	-	-	-	-	-
Mini			Maxi	-	-	-	-	-		•		-	-	-	-
Mini		1													-
Mini	Membrane air		Micro	_											
Midi	dryers			-											
Maxi	LDM1			_											
Branching modules  FRM  Micro  — — — — — — — — — — — — — — — — — — —				_	-	_	_	_				_	_	_	-
Mini         -		<u> </u>	1	ı	I	I	ı	I	I	I	I	I	I	ı	-
Mini         -	Branching		Micro	_											
Midi         -	modules				_				_		_	_	_	_	_
Maxi         - <td></td>															
Distributor block         Micro         -															
block   Mini	Distributor													ļ	
FRZ Midi				ļ	ļ							ļ	ļ	ļ	
		1 1		-	-								-		
'   Maxi   -   -   -   -   -   -   -   -   -	FKZ			ļ	-									ļ	+
			Maxi	_	_	_	_	_	_	_	_	_	_	_	_



Туре	Size	Bowl guar	d	Pressure i	ndication	Actuator l	ock	Supply vo	ltage		Options		→ Page/ Internet
		Metal bowl guard	Plastic bowl	With pressure gauge	Without pressure gauge	Rotary knob with detent	Rotary knob with integrated lock	24 V DC	110 V AC	230 V AC	Non-return function	Pressure switch	
Individual devi	ces				•								
Pressure	Micro	-											lrb
regulators	Mini	-	-	-	-			-	-	-	-	-	
LRB/LRBS	Midi	-	-	-	-			-	-	-	-	-	
	Maxi	-	-										
Pressure	Micro	-											lrb
regulator	Mini	-	-	-			-	-	-	-	-	-	
combinations	Midi	-	-	-	•	•	-	-	-	-	-	-	
LRB-K	Maxi	-	-	•		•	•	•	•	•	•		
Lubricators	Micro	-		-	-	-	-	-	-	-	-	-	6
LOE	Mini		-	-		-	-	-	-	-	_	-	1
	Midi		-	-	•	-	-	-	-	-	-	-	1
	Maxi		-	-	•	-	-	-	-	-	-	-	1
	•						•			•			
On-off valves	Micro	-											he
HE	Mini	-	-	-	-		-	-	-	-	-	-	
	Midi	-	-	-			-	-	-	-	-	-	1
	Maxi	-	-	-			-	-	_	-	_	-	1
On-off valves,	Micro	-	•	•		•	•	•	•	•	•	•	hee
electrical	Mini	-	-	-		-	-				-	-	1
HEE	Midi	-	-	-	•	-	-		•		-	-	1
	Maxi	-	-	-	•	-	-				-	-	1
On-off valves,	Micro	-		1		1						1	hep
pneumatic	Mini	-	-	-		-	-	-	_	-	_	_	1
HEP	Midi	-	-	-	-	-	-	-	-	-	-	-	1
	Maxi	-	-	-		-	-	-	-	_	-	-	1
Soft-start	Micro	-		I.		Į.		1	I .	1	I .	1	hel
valves	Mini	_	-	_		_	_	_	_	_	_	_	1
HEL	Midi	-	_	-		-	-	-	-	-	-	_	1
	Maxi	_	_	_	•	_	-	_	-	-	_	-	1
	1	L	1	1		1		1	1		1	1	ı
Membrane air	Micro	-											ldm1
dryers	Mini	-											1
LDM1	Midi	_											1
	Maxi		-	-	•	-	-	-	-	-	-	_	
Branching	Micro	-											frm
modules	Mini	-	-	-		-	-	-	-	-			1
FRM	Midi	_	-	-	•	-	-	-	-	_	•	-	1
	Maxi	_	_	_		-	-	_	-	-			1
Distributor	Micro	_	_	_	•	_	_	_	_	_	_	_	frz
block	Mini	_	_	_	-	-	_	_	_	_	_	_	1
FRZ	Midi	_	_	_	-	_	_	_	_	_	_	_	1
	Maxi	_	_	_	-	-	-	_	_	_	_	-	1
	muni	1		l				1	1		1	1	

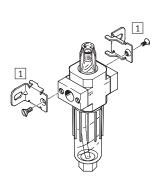
# **454.Lubricators LOE, D series, metal design** Peripherals overview

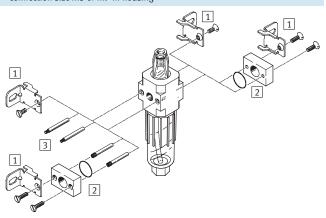


### Micro

Individual unit with connection plates, connection size G½, QS4 or QS6

Individual unit without connection plates, for service unit combination connection size M5 or M7 in housing



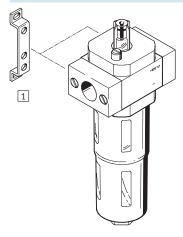


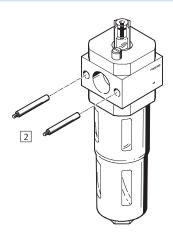
Mounting attachments and accessories					
	Individual unit		Combination		→ Page/
	with connection	without connection	with connection	without connection	Internet
	plates	plates	plates	plates	
Mounting bracket	_	_	_	_	hfoe-d
HFOE	•	_	_	•	
2 Connecting plate kit	_	_	_	_	pbl
PBL	_	_		_	
3 Threaded pin	_	_			frb-d
FRB			_	_	

### Mini/Midi/Maxi

Individual unit with connection plates

 $Individual\ unit\ without\ connection\ plates,\ for\ service\ unit\ combination$ 



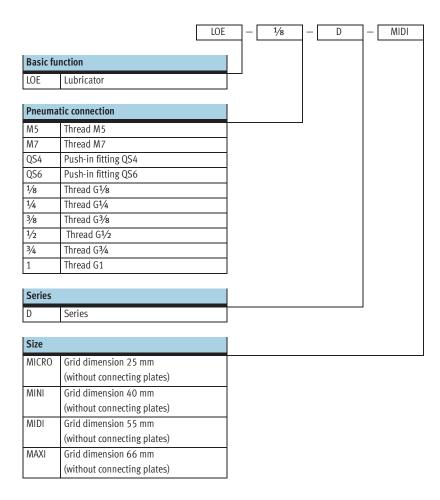


Mounting attachments and access	ories					
		Individual unit		Combination		→ Page/
		with connection	without connection	with connection	without connection	Internet
		plates	plates	plates	plates	
Mounting bracket		_		_		hfoe-d
HFOE		•	_	•	_	
2 Threaded pin (included in sco	ope of delivery)	_	_	•	_	frb-d
FRB				_	_	

## 455.Lubricators LOE, D series, metal design



Type codes



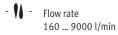
### Lubricators LOE, D series, metal design

**FESTO** 

Technical data

Function







Input pressure 1 ... 16 bar



The proportional lubricator adds a precision adjustable quantity of oil to the compressed air stream.

The pressure drop that occurs when air flows through a Venturi nozzle is used to convey oil from the container to the drip cap. From here, the oil drips into the air duct directly behind the proportional valve, where it is atomised. The oil mist component is proportional to the compressed air flow rate.

- Proportional lubricator with precision oil metering
- Reduces wear on drive units subject to high loading
- High flow rate
- Quick and easy oil top-up
- Robust metal housing
- Transparent lubricator bowl with metallic bowl guard

The following oils are recommended for Festo components: Viscosity range to ISO 3448, ISO class VG 32  $32 \text{ mm}^2/\text{s}$  (= cSt) at 40 °C

- Festo special oil
  - **→** 15
- ARAL Vitam GF 32
- BP Energol HLP 32
- Esso Nuto H 32
- Mobil DTE 24
- Shell Tellus Oil DO 32

General technical data																
Size		Micro	1				Mini			Midi				Maxi		
Pneumatic connection		M5	M7	G1/8	QS4	QS6	G1/8	G1/4	G3/8	G1/4	G3/8	G <sup>1</sup> / <sub>2</sub>	G3/4	G <sup>1</sup> / <sub>2</sub>	G3/4	G1
Operating medium		Filtere	ed com	presse	ed air,		Filtered c	ompresse	d air, unlub	oricated	l, grade	of filtrat	ion 40 µ	ım		
		unlub	ricated	d, grad	le of											
		filtrat	ion 5 μ	ım												
Design		Propo	ortional	l stanc	lard m	nist lul	oricator									
Type of mounting		Via ad	ccessor	ies												
		In-line	e insta	llation	1											
Assembly position		Vertic	al ±5°													
Input pressure	[bar]	0 1	0				0 16									
Minimum flow for lubricator	[l/min]	3					3			8				10		
operation																
Max. oil capacity	[cm <sup>3</sup> ]	6.5					45			110				190		

 $<sup>\</sup>cdot$  |  $\cdot$  | Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard nominal flow rate <sup>1)</sup> qnN [l/min]					
Connection	Female thread		Connecting plate		
	M5	M7	G1/8	QS4	QS6
Micro					
LOE	200	430	410	160	330

<sup>1)</sup> Measured at p1 = 6 bar and  $\Delta p$  = 1 bar.



Standard nominal flow rate <sup>1)</sup> qnN [l/min]	1					
Connection	G <sup>1</sup> / <sub>8</sub>	G <sup>1</sup> / <sub>4</sub>	G3/8	G <sup>1</sup> / <sub>2</sub>	G3/4	G1
Mini						
LOE	1300	2300	2700		_	_
Midi						
LOE	_	2800	5500	6100	6300	-
Maxi			_			
LOE	-	-		8300	8400	9000

<sup>1)</sup> Measured at p1 = 6 bar and  $\Delta p$  = 1 bar.

Screw-in depth of connecting thread [mn	n]										
Connection	M5	M7	G <sup>1</sup> / <sub>8</sub>	QS4	QS6						
Micro											
In housing	5	6	-	-	-						
In connecting plates	-	-	8	-	-						

Ambient conditions					
Size		Micro	Mini	Midi	Maxi
Ambient temperature	[°C]	-10 +60			
Temperature of medium	[°C]	-10 +60			
Corrosion resistance class	CRC <sup>1)</sup>	2			

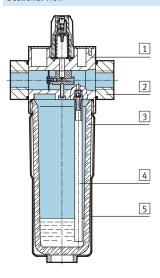
<sup>1)</sup> Corrosion resistance class 2 according to Festo standard 940 070 Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating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

Weight [g]						
Size	Micro		Mini	Midi	Maxi	
	Female	Connecting			Connection	Connection
	thread	plate			G <sup>1</sup> / <sub>2</sub> , G <sup>3</sup> / <sub>4</sub>	G1
LOE	39	59	270	630	1100	1200



### Materials

Sectional view

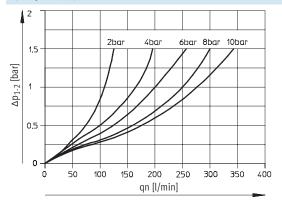


Lubricator		Micro	Mini/Midi/Maxi
1	Housing	Wrought aluminium alloy	Die-cast zinc/aluminium
2	Connecting plates	Wrought aluminium alloy	Die-cast zinc/aluminium
3	Bowl	Polycarbonate	Polycarbonate
4	Tubing	Polyethylene	Polyethylene
5	Metal bowl guard	-	Aluminium
-	Seals	Nitrile rubber	Nitrile rubber

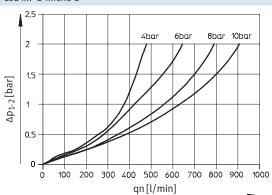
### Standard flow rate qn as a function of the differential pressure $\Delta \text{p1--2}$



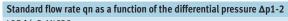
10



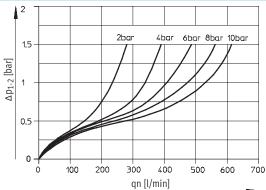
### LOE-M7-D-MICRO B



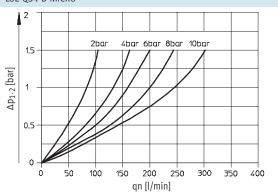




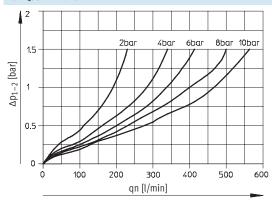
## LOE-1/8-D-MICRO



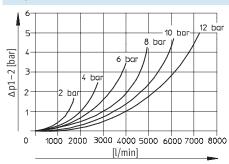
### LOE-QS4-D-MICRO



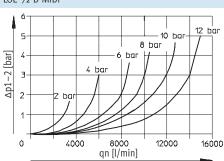
### LOE-QS6-D-MICRO



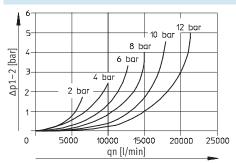
### LOE-1/4-D-MINI



### LOE-1/2-D-MIDI

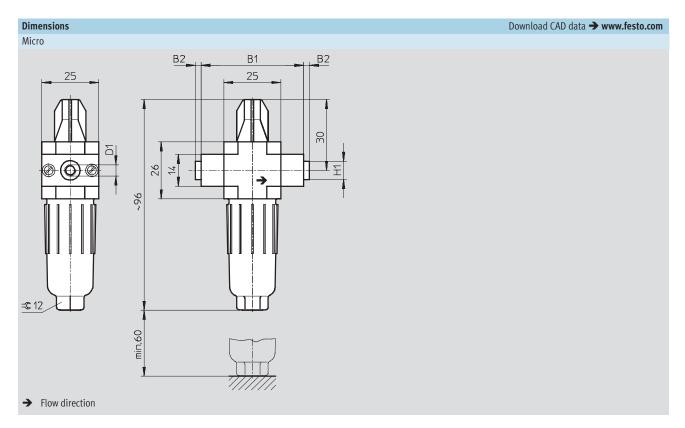


### LOE-1-D-MAXI



Primary pressure p1 = 10 bar





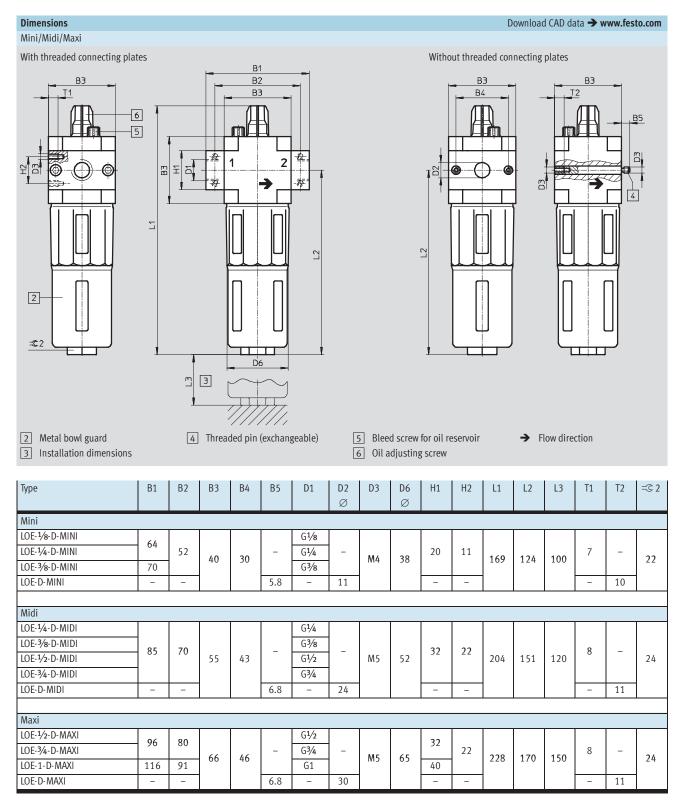
Туре	B1	B2	D1	H1	
MICRO					
LOE-M5-D-MICRO	25	-	M5	-	
LOE-M7-D-MICRO B	25		M7		
LOE-1/8-D-MICRO			G1/8		
LOE-QS4-D-MICRO	45	~2.5	QS4	~8	
LOE-QS6-D-MICRO			QS6	~10	

 $<sup>\</sup>cdot$  |  $\cdot$  | Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

## Lubricators LOE, D series, metal design



Technical data



 $<sup>\</sup>parallel$   $\cdot$   $\parallel$   $\cdot$  Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

# Lubricators LOE, D series, metal design



Ordering data	a		
Lubricator, in	put pressure 0 10 bar		
Size	Connection	Part No. Type	
Micro	Without threaded connecting plates, connecting thread in housing		
	M5	526309 LOE-M5-D-MICRO	
	M7	534188 LOE-M7-D-MICRO-B	
	With threaded co	nnecting plates	
	G1/8	526310 LOE-1/8-D-MICRO	
	With connecting	plate and push-in fitting	
	QS4	526313 LOE-QS4-D-MICRO	
	QS6	526314 LOE-QS6-D-MICRO	

Ordering data				
Lubricator, input pressure 0 16 bar, metal bowl guard				
Size	Part No. Type			
Without threaded connecting plates				
Mini	192575 LOE-D-MINI			
Midi	192576 LOE-D-MIDI			
Maxi	192577 LOE-D-MAXI			

Ordering data		
Lubricator, inp	out pressure 0 16 bar	etal bowl guard
Size	Connection	Part No. Type
With threaded	connecting plates	
Mini	G1/8	159620 LOE-1/8-D-MINI
	G1/4	159621 LOE-1/4-D-MINI
	G3/8	162680 LOE-3/8-D-MINI
Midi	G1/4	186479 LOE-1/4-D-MIDI
	G3/8	159586 LOE-3/8-D-MIDI
	G <sup>1</sup> / <sub>2</sub>	159587 LOE-1/2-D-MIDI
	G3/4	162681 LOE-¾-D-MIDI
Maxi	G <sup>1</sup> / <sub>2</sub>	186480 LOE-1/2-D-MAXI
	G3/4	159622 LOE-¾-D-MAXI
	G1	159623 LOE-1-D-MAXI

# Lubricators LOE, D series Accessories

**FESTO** 

Special oil



Ordering data		
Scope of delivery	Part No.	Туре
1 litre	152811	OFSW-32

### **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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