

Overview

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Air preparation units

Series airfit light G1/8, G1/4







Air preparation units

Series airfit light G1/8, G1/4

Characteristics

Special solutions (e.g. temperature, pressure, medium ...) on request, or see page 155–166 for special units

Pressures quoted a	as	gauge	pressure
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Characteristics	Symbol	Unit	Air preparation unit three-piece	Air prepara	tion ece	
System			Consisting of filter- water-separator, pressure regulating valve, oil mist lubricator*, gauge, mounting ring, and locating ring	Consisting regulator, o lubricator*, mounting rin	il mist gauge, ing, and	
Туре			MFRLS-08	MKLS-06	MKLS-08	
Material						
- Housing			Fiber – reinforced polyam	ide 66		
- Plastic bowl			Polycarbonate			
 Standard sealings 			NBR	NBR		
Port size (NPTF version)			G1/4	G1/8	G1/4	
Max. condensate capacity		cm ³	12	12	12	
Pore size of filter element		μm	30 or 5	30 or 5		
Condensate drainage			Manual or semi-automatic (pressure relief)	C		
Oil/air ratio			Constant oil drip rate inde	ependent of	air flow	
Max. oil capacity		cm ³	35	35		
Oil refilling			Manual	Manual		
Installation			Vertical, bowl at the botto	om		
Medium and ambient temperatures	T_{min}^{min}	°C	0 +50 at 10 bar	0 +50 at 10	bar	
Weight (mass)		kg	0.40	0.32		
Pneumatic characteristic	:S					
Operating pressure range – inlet pressure	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	bar bar	0 10	0 10		
Operating pressure range – outlet pressure	p _{2 min/max}	bar	0.5 to 8	0.5 to 8		
Smallest pressure difference	p ₁ -p ₂					
Hysteresis $p_1=10/p_2=0$ $p_1=10/p_2=8$						
Maximum flow 1)	Q_{max}	l/min m³/h	440 27	400 24	580 35	
Degree of moisture separation at recommended flow ²⁾	η	%	> 90	> 90		
Residual oil amount		mg/m ³	-	_		



 $^{^{1)}}$ at p $_{1}$ =10 bar and p $_{2}$ = 6.3 bar, Δp = 1 bar $^{2)}$ at 6.3 bar and 25 m/s

^{*)}Use only recommended oils with viscosity VG32 to ISO 3448 (32 mm²/s at 40°C) or HOERBIGER special oil, Order No.: KY 8766 (see page 191)



Filter-regu		Filter-water separator		Pressure r		Oil mist lu		Submicro	filter	Activated filter	carbon
Cyclone sy with filter combined piston-typ- regulating (spring loa secondary relief, loca handwhee	element, with e pressure valve aded) with pressure ating ring,	With cyclo system an element	one d filter	Piston-typ regulating (spring loa secondary relief, loca handwhee	aded) with pressure ating ring,	Oil mist with flow compens					
MKS-06	MKS-08	MFS-06	MFS-08	MRP-06	MRP-08	MLS-06	MLS-08	MF007- 1/8	MF007- 1/4	MC007- 1/8	MC007- 1/4
	nforced po	lyamide 66									
Polycarbo	nate			-		Polycarbo	nate				
NBR		NBR		NBR		NBR		NBR		NBR	
G1/8	G1/4	G1/8	G1/4	G1/8	G1/4	G1/8	G1/4	G1/8	G1/4	G1/8	G1/4
12	12	12	12	_		_		12	12	-	-
30 or 5		30 or 5									
Polycarbon (pressure	nate or sem relief)	ni-automati	С	_		_		Manual			
						Constant of rate indep air flow	oil drip endent of				
_		_		-		35		_		_	
						Manual					
Vertical, b	owl at the	bottom		In any pos	sition	Vertical, b	owl at the	bottom			
0 +50 at 10		0 +50 at 10) bar	0 +50 at 10		0 +50 at 10		0 +50 at 10) bar	0 +40 at 10	bar
0.12		0.10		0.11		0.09		0.10		0.10	
0 10		0 10		0 10		0 10		0 10		0 10	
0.5 to 8				0.5 to 8							
0.2		-		0.2		-		-		-	
1.6 0.6				1.6 0.6							
550 33	550 33	1085 65	1830 110	530 32	770 46	865 52	1400 84	350 at 6 21		350 at 6 21	oar
> 90		> 90		_		_		Over 99.9 related to		_	
-		-		-		-		< 0.01 (ir 3 mg/m	nput conc. ³)	0.003% i combinati	on MF

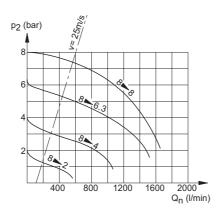
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Air preparation units

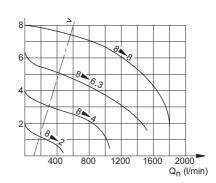
Series airfit light G1/8, G1/4

Flow characteristics

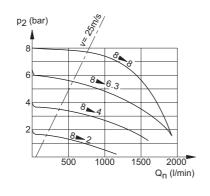
Air preparation units, three-piece, two-piece Type: MFRLS-08 $\,$



Type: MKLS-08

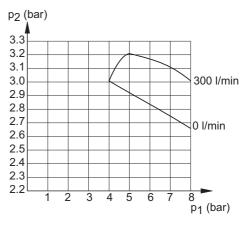


Filter-regulator Type: MKS-08



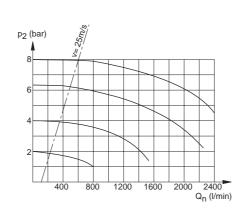
Outlet pressure variation with fluctuation inlet pressure

Type: MKS-08



Filter-water-separator Type: MFS-08





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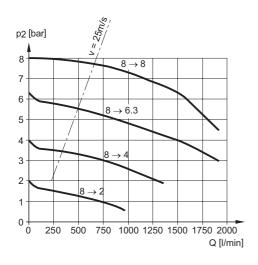
Air preparation

Series airfit light G1/8, G1/4

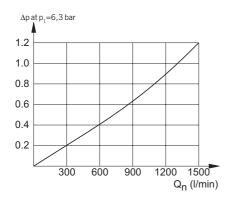
Flow characteristics

units

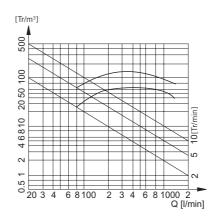
Pressure regulating valve Type: MRP-08



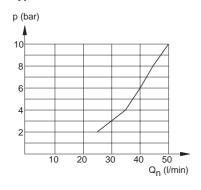
Oil mist lubricator Type: MLS-08



Oil/air ratio Type: MLS-08



Min. operating conditions Type: MLS-08



For order instructions see page 16, 17, for characteristics see page 8–11, for accessories see page 18, 19





Air preparation units

Series airfit light G1/8, G1/4

Dimensions

Delivery includes:

Air preparation unit threepiece:

Filter-water-separator Pressure regulating valve Oil mist lubricator

Gauge

Mounting bracket

Mountingring

Air preparation unit two-piece:

Filter-regulator

Oil mist lubricator

Gauge

Mounting bracket

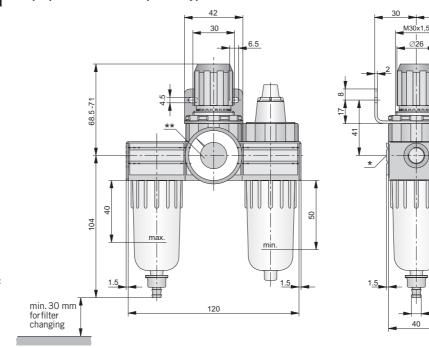
Mountingring

Filter-regulator:

Mounting ring included Pressure regulating valve:

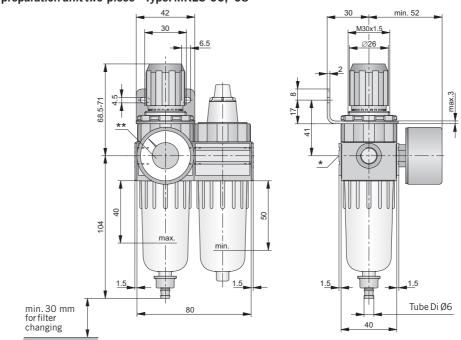
Mounting ring included

Air preparation unit three-piece - Type: MFRLS-08



- On delivery the plug screw is not assembled.
- Two opposite gauge ports G1/8

Air preparation unit two-piece - Type: MKLS-06, -08



- On delivery the plug screw is not assembled. Two opposite gauge ports ${\sf G1/8}$



For order instructions see page 16, 17, for characteristics see page 8–11, for accessories see page 18, 19

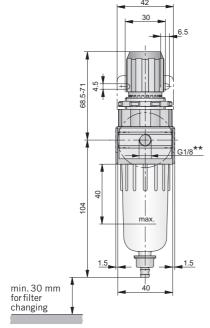
Dimensions in mm

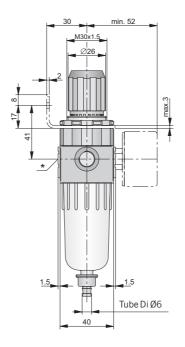
max.3

Tube Di Ø6



Filter-regulator - Type: MKS-06, -08





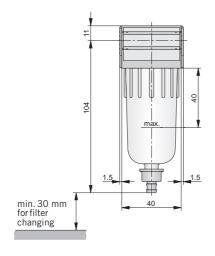
Air preparation units

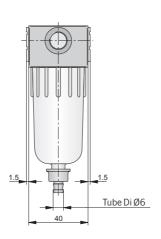
Series airfit light G1/8, G1/4

Dimensions

- On delivery the plug screw is not assembled. Two opposite gauge ports G1/8

Filter-water-separator – Type: MFS-06, -08





For order instructions see page 16, 17, for characteristics see page 8-11, for accessories see page 18, 19



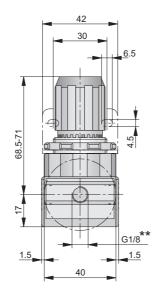


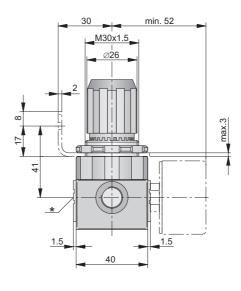
Air preparation units

Series airfit light G1/8, G1/4

Dimensions

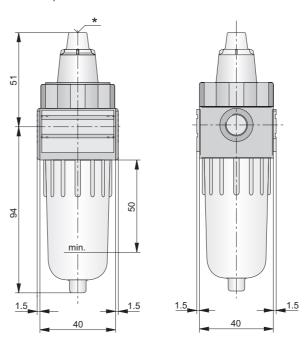
Pressure regulator – Type: MRP-06, -08





- On delivery the plug screw is not assembled. Two opposite gauge ports ${\sf G1/8}$

Oil mist lubricator - Type: MLS-06, -08





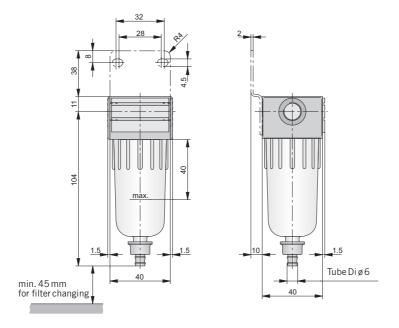


* Oil adjusting screw

For order instructions see page 16, 17, for characteristics see page 8–11, for accessories see page 18, 19 $\,$



Submicrofilter – Type: MF-06, -08 Activated carbon filter – Type: MC-06, -08



Air preparation units

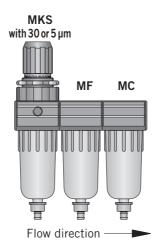
Series airfit micro G1/8, G1/4

Dimensions

for series airfit light

Installation procedure

To increase the life span of the filter elements, we recommend the following order.



For order instructions see page 16, 17, for characteristics see page 8–11, for accessories see page 18, 19 $\,$





Air preparation Standard versions Units Standard versions Description

Series airfit light G1/8, G1/4

Order instructions

Description	Symbol	Port size	Orderinstruction		
			Туре	Order No.	
Air preparation unit three-piece					
– basic model		G1/4	MFRLS-08	PB 40949-100	
– with filter element 5 µm		G1/4	MFRLS-08-5	PB 40949-110	
– with semi-automatic drainage		G1/4	MFRLS-08-H	PB 40949-104	
Air preparation unit two-piece					
– basic model		G1/8	MKLS-06	PB 40449-100	
– basic model		G1/4	MKLS-08	PB 40549-100	
– with filter element 5 μm		G1/8	MKLS-06-5	PB 40449-109	
– with filter element 5 µm		G1/4	MKLS-08-5	PB 40549-109	
- with semi-automatic drainage		G1/8	MKLS-06-H	PB 40449-104	
– with semi-automatic drainage		G1/4	MKLS-08-H	PB 40549-104	
Filter-regulator					
– basic model		G1/8	MKS-06	PB 40049-100	
– basic model		G1/4	MKS-08	PB 40149-100	
– with filter element 5 μm		G1/8	MKS-06-5	PB 40049-116	
– with filter element 5 μm		G1/4	MKS-08-5	PB 40149-116	
- with semi-automatic drainage		G1/8	MKS-06-H	PB 40049-101	
– with semi-automatic drainage		G1/4	MKS-08-H	PB 40149-101	
Filter-water-separator					
– basic model		G1/8	MFS-06	PB 40649-100	
– basic model	\wedge	G1/4	MFS-08	PB 40749-100	
– with filter element 5 µm		G1/8	MFS-06-5	PB 40649-116	
– with filter element 5 μm	,	G1/4	MFS-08-5	PB 40749-116	
– with semi-automatic drainage		G1/8	MFS-06-H	PB 40649-101	
- with semi-automatic drainage		G1/4	MFS-08-H	PB 40749-101	
Pressure regulating valve					
basic model with p₁-flow compensation		G1/8	MRP-06	PB 21749-800	
basic model with p₁-flow compensation		G1/4	MRP-08	PB 21649-800	





Standard versions

Description	Symbol	Port size	Orderinstruction	
			Туре	Order No.
Oil mist lubricator				
- basic model		G1/8	MLS-06	PB 40249-100
– basic model		G1/4	MLS-08	PB 40349-100
Submicrofilter				
– basic model		G1/8	MF 007-1/8	PB 37349-000
- basic model		G1/4	MF 007-1/4	PB 37449-000
Activated carbon filter				
– basic model		G1/8	MC 007-1/8	PB 37849-000
– basic model		G1/4	MC 007-1/4	PB 37949-000

Accessories

Description	Fortype	Order No.
Mounting bracket	MKS, MRP, MRS	PL15531
Mountingkit	MFS, MLS	PL16859
Mounting kit for DIN rail mounting	MRP	PL17889
Gauge Ø 40, 0–10 bar, G1/8*	MKS, MRP	KZ8813
Gauge with front ring, Ø 40, 0–10 bar, G1/8*		KZ8822
Coupling kit		PL16030
Porting block		PL16031
Porting block NPTF		PL17766
Bowl guard kit		PL18541-00
Coupling kit for combination types	MKS/MRP+MF+MC	PL16755
Coupling kit for combination types	MF+MC, MFS+MF, MFS+MLS	PL16669
Mountingring		KG5006

 $^{^{\}star}$ for more gauges see page 186, 187

For more information see accessories page 18, 19

Air preparation units

Series airfit light G1/8, G1/4

Order instructions





Air preparation units

Series airfit light G1/8, G1/4

Accessories
- Porting block

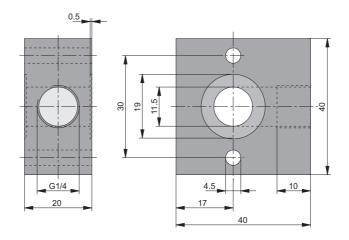
To provide unlubricated air, e.g. for air gun

Delivery includes:

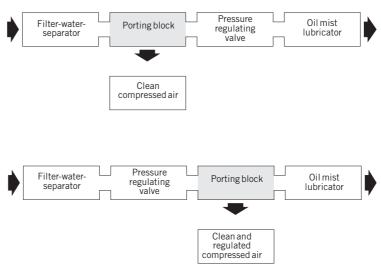
Porting block 2 sealing rings 2 mounting screws

Characteristics	Description
Installation	Between two units of the airfit light series
Mounting	With coupling kit supplied
Material	Aluminum – black lacquered

Dimensions



Installation Instructions





Order instructions - Accessories

Description	Order No.
Porting block kit G1/4-Standard	PL16031
Porting block kit G1/4 - NPTF	PL17766

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Coupling kit



Coupling kit

Coupling kit

MC

Air preparation units



M K



Order No. PL16030

Order No. PL16755

Order No. PL16669

Series airfit light G1/8, G1/4

Accessories

- Coupling kits
- Mounting brackets
- Gauges

Mounting bracket

Gauge Ø 40, 0-10 bar, G1/8





Order No. PL15531

Order No. KZ8813

