

#### Overview

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# Air preparation units

Series airfit A25 G3/4, G1





Characteristics

System

Oil refilling

Installation

temperatures Weight (mass)

Medium and ambient

Operating pressure

Operating pressure

Maximum flow 1)

separation at recommended flow

Degree of moisture

range – inlet pressure

range - outlet pressure

Pneumatic characteristics

Symbol Unit

Series airfit A25 G3/4, G1

#### Characteristics

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

System		water-separa pressure reg valve, oil mi lubricator *; mounting bi locating ring	ator, gulating ist ), gauge, racket,	regulator an Inubricator *; mounting b locating ring	d oil mist ), gauge, racket,	
Туре		A25FRL- 3/4-EMW	A25FRL- 1-EMW	A25KL- 3/4-EMW	A25KL- 1-EMW	
Material						
- Housing		Diecast zinc	;			
<ul><li>Metal bowl</li></ul>		Diecast alur	minum with p	oolypropylene	insert	
- Diaphragm		NBR		NBR		
<ul> <li>Standard sealings</li> </ul>		NBR				
Port size (NPTF version)		G3/4	G1	G3/4	G1	
Max. condensate capacity	cm <sup>3</sup>	130	130	130	130	
Pore size of filter element	μm	30 or 5		30 or 5		
Condensate drainage		Manual, semi-automatic (pressure relief), or automatic (float type)				
Oil/air ratio		Constant oil drip rate independent of air flow				
Max. oil capacity	cm <sup>3</sup>	500		500		

Manual – also during operation

12580 755

Vertical,

3.3

0

17.5

7900

474

0.5 to 12

On request 0.5 to 17.5

See diagram

bowl at the bottom

+50 (+60 to 12.5 bar)

Pressures quoted as gauge pressure

Air preparation unit

Consisting of filter-

Vertical, bowl at the bottom

+50 (+60 to 12.5 bar)

14650

879

-10 <sup>2)</sup>

2.8

0 17.5

8600

528

0.5 to 12

On request 0.5 to 17.5

See diagram

two-piece

Air preparation unit

Consisting of filter-

three-piece



 $^{1)}$  at p $_1=10$  bar and p $_2=6.3$  bar,  $\Delta p=1$  bar  $^{2)}$  for dry compressed air, ice formation must be avoided  $^{3)}$  at p $_1=8$  bar and  $\Delta p=1$  bar  $^{4)}$  recommended pilot pressure regulating valve SR-1/4 (see page 23) at 6.3 bar and 25 m/s flow velocity

\*) Viscosities of ≤ 32 Cst in line with ISO 3448 (32 mm²/s at 40°C) are recommended to ensure optimum atomization and long oil mist paths. HOERBIGER-Origa compressed air oil KY8766 (see page 191)

°Č

kg

bar

har

bar

I/min

m<sup>3</sup>/h

%

 $\boldsymbol{p}_{1\;\text{min}}$ 

 $\mathsf{p}_{_{1\,\,\text{max}}}$ 

 $Q_{max}$ 

η

p<sub>2 min/max</sub>



Filter-regula		Filter-water-	·	Dust filter		Pressure reg		Pressure regi pilot operate	d Ŭ
with diaphra pressure reg valve (spring with second	nt, combined agm-type sulating g loaded) ary pressure pressure and pensation,	With cyclone and filter ele		With cyclone and dust filt		Diaphragm- pressure reg valve (spring with second pressure rel pressure and compensation handwheel I	gulating g loaded) ary ief, inlet d volume on,	Pilot operate type pressure with seconda relief, inlet p volume comp	e regulator ry pressure ressure and
A25K-3/4E	A25K-1E	A25F-3/4E	A25F-1E	A25FD- 3/4E	A25FD-1E	A25R-3/4	A25R-1	A25RV-3/4	A25RV-1
Discost since									
Diecast zinc									
NBR	ninium with p	orypropylene _		_		– NBR		- NBR	
NBR		_		-		NDK		INDIX	
G3/4	G1	G3/4	G1	G3/4	G1	G3/4	G1	G3/4	G1
130	130	130	130	130	130				
30 or 5		30 or 5		1		-		_	
Manual, sen or automation	ni-automatic c (float type)	(pressure reli	ef),	Manual, semi (pressure reli		_		_	
_		_		_		_		_	
_		_		_		_		_	
_		_		_		_		-	
Vertical, bowl at the	bottom	Vertical, bowl at the	bottom	Vertical, bowl at the	bottom	In any posit	ion	In any position	on
-10 <sup>2)</sup> +50 (+60 to	12.5 bar)	-10 <sup>2)</sup> +50 (+60 to	12.5 bar)	-10 <sup>2)</sup> +50 (+60 to	12.5 bar)	-10 <sup>2)</sup> +60		-10 <sup>2)</sup> +60	
1.5		0.9		0.9		1.2		1.2	
0 17.5		0 17.5		0 17.5		0 17.5		0 17.5	
0.5 to 12 On request 0.5 to 17.5		-		-		0.5 to 12 On request 0.5 to 17.5		0.5 to 12 On request 0.5 to 17.5	
13200 792	19000 1140	10400 <sup>3)</sup> 624	11400 <sup>3)</sup> 684	10400 <sup>3)</sup> 624	11400 <sup>3)</sup> 684	14600 876	> 20000 > 1200	> 20000 > 1200	> 20000 > 1200
> 95		> 95		Only solid p > 99% relat	articles ed to 1 µm	-		-	

For more characteristics of air preparation units see page 72–73



Series airfit A25 G3/4, G1

### Characteristics

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

Pressures quoted as gauge pressure							
Characteristics	Symbol	Unit	Oil mist lub	ricator	Start-stop va	alve	
System			Oil mist lub flow comper		Start-stop va pneumatica electrically a	llv or	
Туре			A25L- 3/4-E	A25L- 1-E	A25DS-3/4	A25DS-1	
Material							
- Housing			Diecast zinc	,			
- Metal bowl			Diecast alur polypropyler		-		
- Diaphragm			NBR		-		
<ul> <li>Standard sealings</li> </ul>			NBR				
Port size (NPTF version)			G3/4	G1	G3/4	G1	
Max. condensate capacity		cm <sup>3</sup>	-		-		
Condensate drainage			_		-		
Oil/air ratio			Constant oil independen	drip rate t of air flow	_		
Max. oil capacity		cm <sup>3</sup>	500		-		
Oil refilling			Manual – al	so during	-		
Installation			Vertical, bowl at the	bottom	In any posit	ion	
Medium and ambient temperatures	T <sub>min</sub> T <sub>max</sub>	°C °C	-10 <sup>2)</sup> +50 (+60 to	12.5 bar)	-10 <sup>2)</sup> +50 (+60 to	12.5 bar)	
Weight (mass)		kg	0.8		1.6		
Pneumatic characteristic	s						
Operating pressure range – inlet pressure	$\begin{array}{c} \textbf{p}_{1 \text{ min}} \\ \textbf{p}_{1 \text{ max}} \end{array}$	bar bar	0 17.5		2 17.5 (16 to	A25DSE)	
Maximum flow 1)	$Q_{\text{max}}$	l/min m³/h	16000 960	17700 1062	10500 630	12000 720	
Degree of moisture separation at recommended flow <sup>2)</sup>	η	%	-		_		
Residual oil amount		mg/m³					



 $<sup>^{1)}</sup>$  at p  $_{\rm l}$  =  $\,$  = 6.3 bar,  $\Delta p$  = 1 bar  $^{2)}$  at 6.3 bar and 25 m/s flow velocity

<sup>\*)</sup> Viscosities of ≤ 32 Cst in line with ISO 3448 (32 mm²/s at 40°C) are recommended to ensure optimum atomization and long oil mist paths. HOERBIGER-Origa compressed air oil KY8766 (see page 191)



Submicrofilter		Activated carbo	Activated carbon filter		3/2 Way shut-off valve		
				3/2 Way valve (direct assembly from the airfit A with coupling k	to any unit 25 series,		
A25MF-230- 3/4-E	A25MF-230- 1-E	A25MC-230- 3/4-E	A25MC-230- 1-E	A25DV-3/4	A25DV-1		
<b>C</b> :							
Diecast zinc							
Diecast zinc wit polypropylene in		Diecast zinc wit polypropylene in		_			
_		_		_			
NBR							
G3/4	G1	G3/4	G1	G3/4	G1		
130	130	130	130	_			
Manual, semi-a (pressure relief) (float type)	utomatic , or automatic	Manual, semi-a (pressure relief)	utomatic	_			
_		_		_			
_		_		_			
_		_		_			
Vertical, bowl at the bott	om	Vertical, bowl at the bott	om	In any position			
0 +50 (+60 to 12	2.5 bar)	0 +50 (+60 to 12	2.5 bar)	-10 <sup>2)</sup> +50 (+60 to 12	2.5 bar)		
1.5		1.5		1.2			
0 17.5		0 17.5		0 17.5			
3850 to 6 bar 230		3850 to 6 bar 230		> 20000 > 1200	> 20000 > 1200		
Over 99.99999 0.01µm	% related to	_		_			
< 0.01 input co	onc. 3 mg/m <sup>3</sup>	0.003 ‰ in combination	MF				

Series airfit A25 G3/4, G1

Characteristics



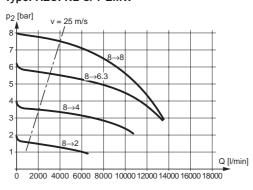
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## Air preparation units

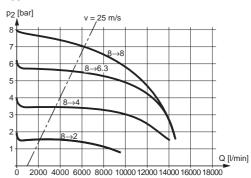
Series airfit A25 G3/4, G1

Flow characteristics

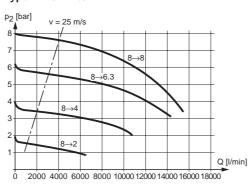
Air preparation unit three-piece Type: A25FRL-3/4-EMW



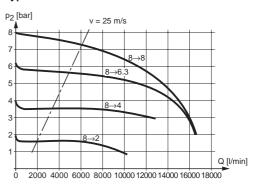
Type: A25FRL-1-EMW



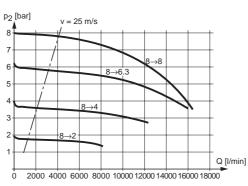
Air preparation unit two-piece Type: A25KL-3/4-EMW



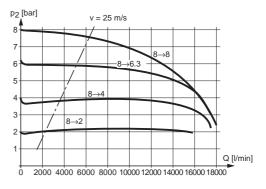
Type: A25KL-1-EMW



Filter-regulator Type: A25K-3/4-E

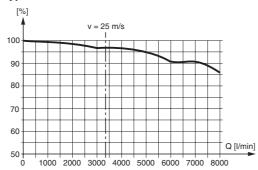


Type: A25K-1-E

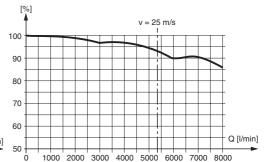


Degree of filtration Type: A25K-3/4-E



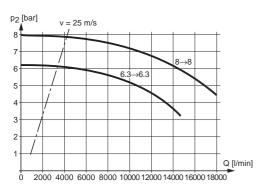


Type: A25K-1-E

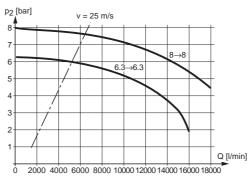




Filter-water-separator Type: A25F-3/4-E



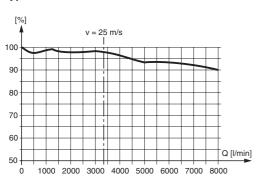
Type: A25F-1-E



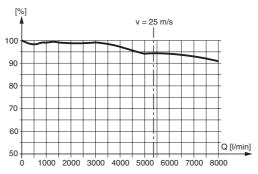
Series airfit A25 G3/4, G1

Flow characteristics

Degree of filtration Type: A25F-3/4-E



Type: A25F-1-E





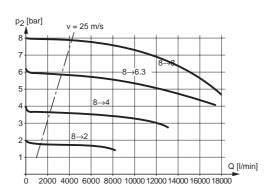
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## Air preparation units

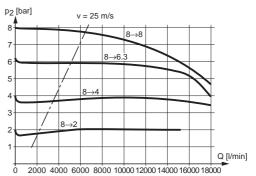
Series airfit A25 G3/4, G1

Flow characteristics

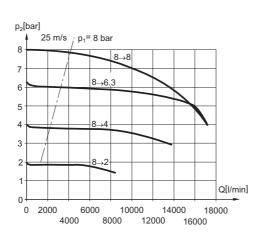
Pressure regulating valve Type: A25R-3/4



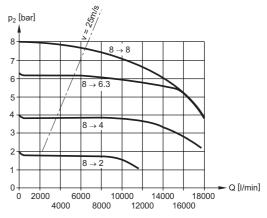
Type: A25R-1



### Pressure regulating valve, pilot operated Type: A25RV-3/4



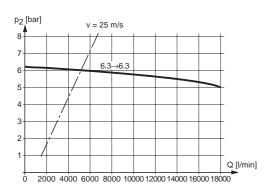
Type: A25RV-1



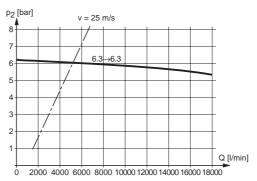




Oil mist lubricator Type: A25L-3/4-E



Type: A25L-1-E

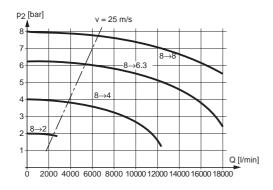


Air preparation units

Series airfit A25 G3/4, G1

Flow characteristics

Start-stop valve Type: A25DS-3/4, A25DS-1





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## Air preparation units

Series airfit A25 G3/4, G1

### **Dimensions**

### **Delivery includes:**

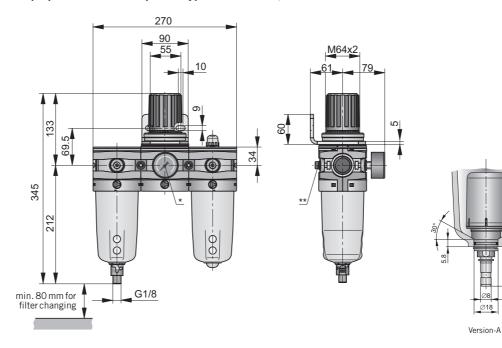
Air preparation unit threepiece:

Filter-water-separator Pressure regulating valve Oil mist lubricator Gauge Mounting bracket

Air preparation unit two-piece:

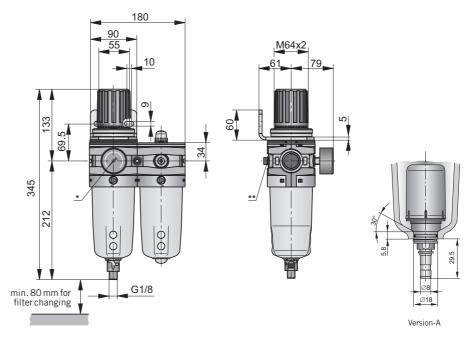
Filter-regulator Oil mist lubricator Gauge Mounting bracket

Air preparation unit three-piece - Type: A25FRL-3/4, -1



- \* Two opposite gauge ports G1/4
- \*\* On delivery the plug screw is not assembled.

### Air preparation unit two-piece - Type: A25KL-3/4, -1



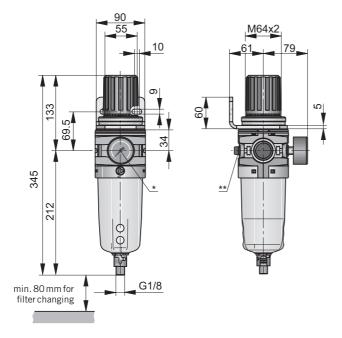
- \* Two opposite gauge ports G1/4
- \*\* On delivery the plug screw is not assembled.

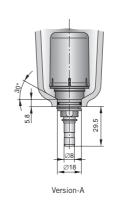
For order instructions see page 85–87, for characteristics see page 70–77, for accessories see page  $88,\,89$ 





### Filter-regulator - Type: A25K-3/4, -1





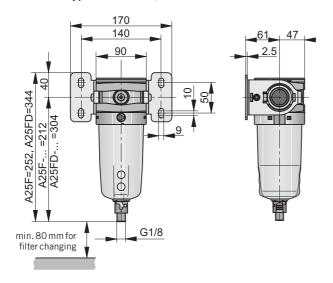
## Air preparation units

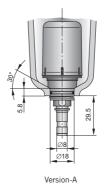
Series airfit A25 G3/4, G1

**Dimensions** 

- \* Two opposite gauge ports G1/4
- \*\* On delivery the plug screw is not assembled.

### Filter-water-separator – Type: A25F-3/4, -1 Dust filter – Type: A25FD-3/4, -1 \*)





\* Dust filter with large filter surface for long service life. For compressed air systems with air dryers.



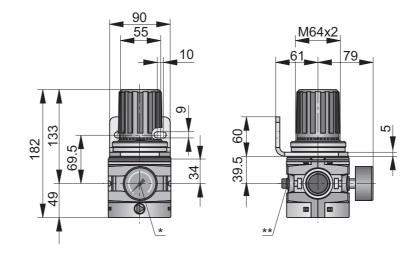
For order instructions see page 85–87, for characteristics see page 70–77, for accessories see page 88, 89



Series airfit A25 G3/4, G1

**Dimensions** 

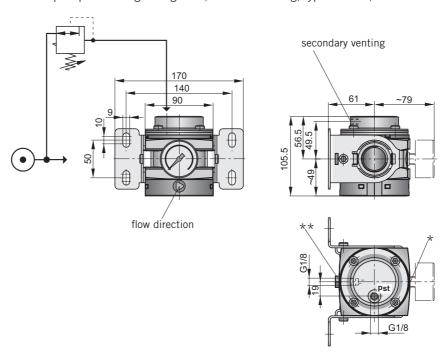
#### Pressure regulating valve - Type: A25R-3/4, -1



- Two opposite gauge ports G1/4 On delivery the plug screw is not assembled.

### Pressure regulating valve, pilot operated - Type: A25RV-3/4, -1

- Recommended pilot pressure regulating valve, series airfit swing, Type: SR-1/4, PB45449-058





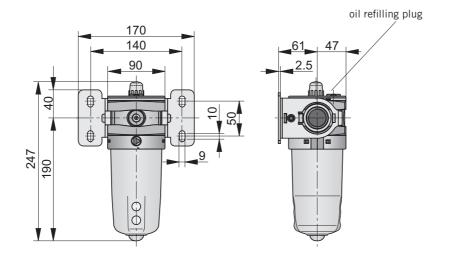


- Two opposite gauge ports G1/4 On delivery the plug screw is not assembled.

For order instructions see page 85–87, for characteristics see page 70–77, for accessories see page 88, 89



### Oil mist lubricator - Type: A25L-3/4, -1



## Air preparation units

Series airfit A25 G3/4, G1

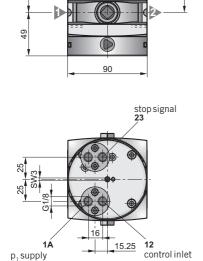
**Dimensions** 

### Start-stop valve, pneumatically actuated Type: A25DS-3/4 P, -1P

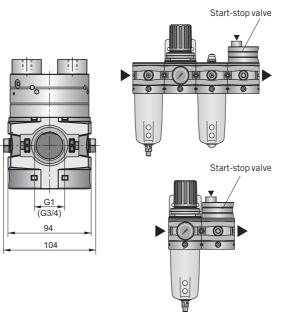
Ø89

Ø30

8

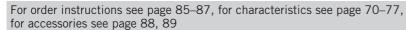


#### Installation instruction



The start function is designed to facilitate slow pressure build-up and for ventilation in pneumatic systems.

It prevents uncontrolled movements in the pneumatic equipment that can occur when starting the system at full system pressure. A throttle screw is used to set the pressure build-up time. The stop function facilitates rapid ventilation.





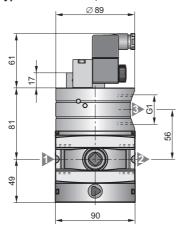
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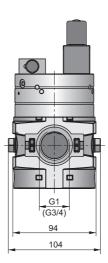
## Air preparation units

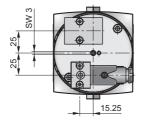
Series airfit A25 G3/4, G1

**Dimensions** 

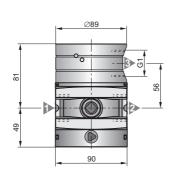
Start-stop valve, electrically actuated Type: A25DS-3/4E, -1E





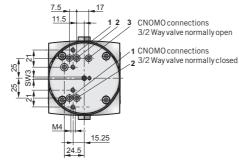


Start-stop valve, CNOMO connections Type: A25DS-3/4C, -1C







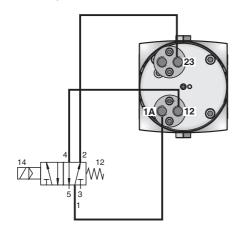


For order instructions see page 85–87, for characteristics see page 70–77, for accessories see page 88, 89

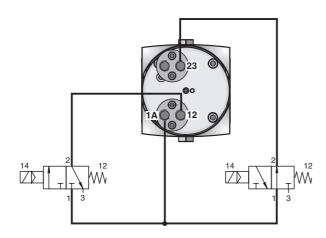


### Start-stop valve, pneumatically actuated

Combined start/stop function



 $Combined \, start/stop \, function \, with \, acknowledgement \,$ 



Further control types on request

Air preparation units

Series airfit A25 G3/4, G1

Control types



For order instructions see page 85–87, for characteristics see page 70–77, for accessories see page 88, 89

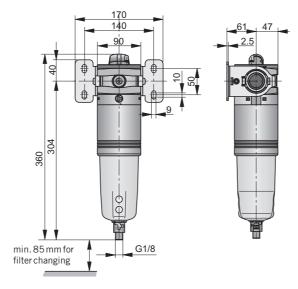
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## Air preparation units

Series airfit A25 G3/4, G1

**Dimensions** 

Submicrofilter – Type: A25MF230-3/4, -1 Activated carbon filter – Type: A25MC230-3/4, -1

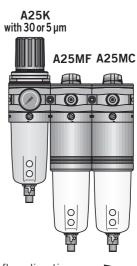


### Note:

 $\label{lem:contamination} Activated \, carbon \, filter \, A25MC230-E \, without \, contamination \, indicator$ 

#### Installation instruction

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

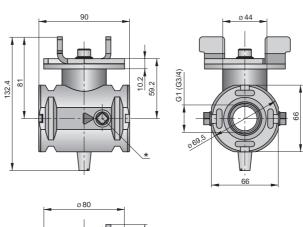


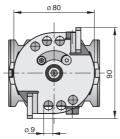
flow direction ----

#### Features:

- Rotary switch can be turned 90°
- Can be shut off in 6 different modes
- Indication of positions
- Flow open, exhaust closed
- Inlet closed, outlet exhausted
- Flow direction shown by arrow

### 3/2 Way shut-off valve Type: A25DV-3/4, -1





<sup>\*</sup> Two opposite gauge ports G1/8 on request

For order instructions see page 85–87, for characteristics see page 70–77, for accessories see page 88, 89





#### Standard versions

Description	Symbol	Port size	Order instruction Type	Order No.
Air preparation unit three-piece	ı			
- Basic version with combined		G3/4	A25FRL-3/4-EMW	PB 63449-000
manual and semi-automatic drainage		G1	A25FRL-1-EMW	PB 63549-000
-with automatic drainage		G3/4	A25FRL-3/4-AEMW	PB 63449-005
		G1	A25FRL-1-AEMW	PB 63549-005
Air preparation unit two-piece				
- Basic version with combined		G3/4	A25KL-3/4-EMW	PB 63649-000
manual and semi-automatic drainage		G1	A25KL-1-EMW	PB 63749-000
-with automatic drainage		G3/4	A25KL-3/4-AEMW	PB 63649-005
		G1	A25KL-1-AEMW	PB 63749-005
Filter-regulator				
Basic version with combined manual and semi-automatic		G3/4	A25K-3/4-E	PB 62249-000
drainage		G1	A25K-1-E	PB 62349-000
– with filter element 5 μm, with combined manual and semi-		G3/4	A25K-3/4-5E	PB 62249-016
automatic drainage		G1	A25K-1-5E	PB 62349-016
- with automatic drainage		G3/4	A25K-3/4-AE	PB 62249-002
		G1	A25K-1-AE	PB 62349-002
- with adapter for keylock		G3/4	A25K-3/4-EX	PB 62249-010
		G1	A25K-1-EX	PB 62349-010
Filter-water-separator				
Basic version with combined manual and semi-automatic		G3/4	A25F-3/4-E	PB 61649-000
drainage		G1	A25F-1-E	PB 61749-000
– with filter element 5 μm with combined manual and semi-		G3/4	A25F-3/4-5E	PB 61649-016
automatic drainage		G1	A25F-1-5E	PB 61749-016
- with filter element 1 μm (dust filter) with combined		G3/4	A25FD-3/4-E	PB 61649-070
manual and semi-automatic drainage		G1	A25FD-1-E	PB 61749-070
- with automatic drainage		G3/4	A25F-3/4-AE	PB 61649-002
		G1	A25F-1-AE	PB 61749-002

# Air preparation units

Series airfit A25 G3/4, G1

Order instructions





Series airfit A25 G3/4, G1

Order instructions

C1		
Stanc	ıarn	versions
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Description	Symbol	Portsize	Order instruction Type	Order No.
Pressure regulating val	ve		.,,,,,	0.00.110.
- Basic version		G3/4	A25R-3/4	PB 61849-000
	F	G1	A25R-1	PB 61949-000
- with adapter for keylo	ck -	G3/4	A25R-3/4-X	PB 61849-006
		G1	A25R-1-X	PB 61949-006
- Pressure regulating va	alve,	G3/4	A25RV-3/4	PB 61849-070
pilot operated		G1	A25RV-1	PB 61949-070
Oil mist lubricator				
– Basic version		G3/4	A25L-3/4-E	PB 62049-000
		G1	A25L-1-E	PB 62149-000
Start-stop valve				
– pneumatically actuat	ted	G3/4	A25DS-3/4-P	PB 63049-000
	10	G1	A25DS-1-P	PB 63149-000
-electrically actuated 230 V/50 Hz			A25DS-3/4-E	PB 63049-004
12			A25DS-1-E	PB 63149-004
-electrically actuated 24 V DC			A25DS-3/4-E	PB 63049-001
12	W COLLAND	G1	A25DS-1-E	PB 63149-001
-electrically actuated with CNOMO connections		G3/4	A25DS-3/4-C	PB 63049-010
	M COLLING TO THE	G1	A25DS-1-C	PB 63149-010
Submicrofilter				



Submicrofilter				
- Basic version, with combined manual and semi-	_	G3/4	A25MF230-3/4-EV	PB 62549-010
automatic drainage		G1	A25MF230-1-EV	PB 62649-010
- additionally with auto-		G3/4	A25MF230-3/4-AEV	PB 62549-012
matic drainage		G1	A25MF230-1-AEV	PB 62649-012
Activated carbon filter				
- Basic version, with combined manual and semi-		G3/4	A25MC230-3/4-E	PB 62849-000
automatic drainage		G1	A25MC230-1-E	PB 62949-000
3/2 Way shut-off valve				
- 3/2 Way shut-off valve	12 2	G3/4	A25DV-3/4	PB 63249-000
		G1	A25DV-1	PB 63349-000



#### **Accessories**

Description	Fortype	Order No.
Mounting kit (bracket + mounting nut)		PL 18990
Gauge, Ø 50 mm, 0–16 bar, G1/4		KG8013
Porting block kit		PL 18986
Coupling kit		PL 18987
Keylock for pressure regulating valve	A25RX	PL17127
Solvent resistant sight glass	A25L	PL15717
Adapter plates-kit $p_1/p_2$ , G11/4		PL19199
Adapter plates-kit $p_1/p_2$ , G11/2		PL19200
Special oil for oil mist lubricators 1 l (see page 191)		KY8766

<sup>\*</sup> for more gauges see page 186, 187 For more information see accessories page 88, 89

## Air preparation units

Series airfit A25 G3/4, G1

Order instructions





Series airfit A25 G3/4, G1

Accessories

- Porting block kit

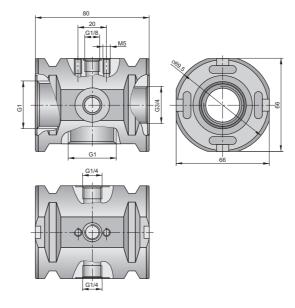
To provide unlubricated air e.g. for air gun. With pressure switch connections

### **Delivery includes:**

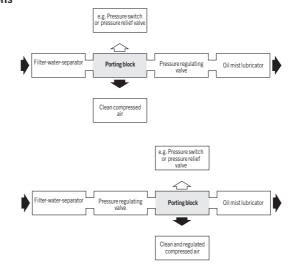
- 1 porting block
- 1 coupling kit
- 3 plug screws

Characteristics	Description
Installation	Between 2 units of the airfit A25 series
Mounting	Directly flange mountable with coupling kit supplied
Material	Aluminum

#### **Dimensions**



### Installation instructions



#### **Order instructions**

	Description	Order instruction
		Type
	Porting block kit	A25X
llia .		

Dimensions in mm

Order No. PL 18986





Mounting kit

**Coupling kit** 

Keylock for pressure regulator Type: A25R-..-X

Air preparation units



-000

Order No. PL18990

Order No. PL18987

Order No. PL17127

Accessories

G3/4, G1

Series airfit A25

Gauge Ø50, 0–16 bar, G1/4



Order No. KG8013

