

Overview

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Air preparation units

Series airfit A50 G11/2, G2





Series airfit A50 G11/2, G2

Characteristics

Special solutions (e.g. temperature, pressure, medium ...) on request, or see page155–166 for special units

			Pressures quoted as gaug	ge pressure
Characteristics	Symbol	Unit	Filter-water-separator	Dust filter
System			With cyclone system and filter element and wear indicator	Dust filter with wear indicator
Туре			A50FADV	A50FDADV
Material				
– Housing			Diecast aluminum	
– Metal bowl			Diecast aluminum	
– Diaphragm			-	-
 Standard sealings 			NBR	
Port size			G11/2, G2	G11/2, G2
Flange connection			SAE flange	SAE flange
Max. condensate capacity		cm ³	600	600
Pore size of filter element		μm	30 or 5	1
Condensate drainage			Fully automatic (float type)	Manual, semi-automatic (pressure relief)
Max. oil capacity		cm ³	-	-
Oil refilling			-	-
Size of micro-mist particles		μm	_	-
Installation			Vertical, bowl at the bott	om
Medium and ambient temperatures	T T _{max}	°C ℃	0 Further temperat	ures on request
Weight (mass)		kg	6.3	6.4
Pneumatic characteristic	S			
Operating pressure range – inlet pressure	$p_{1 \min} \ p_{1 \max}$	bar bar	0 17.5	0 17.5
Operating pressure range – outlet pressure	$\rm p_{2\ min/max}$	bar		
Differential pressure range	p _{min} p _{max}	bar bar	-	-
Maximum flow	Q_{\max}	l/min m³/h	> 40000 ²⁾ > 2400	> 40000 ²⁾ > 2400
Degree of moisture sep- aration at recommended flow	η	%	> 90	Only solid particles > 99% related to 1 μ m



 $^{1)}$ at p₁ =10 bar and p₂ = 6.3 bar, $\Delta p = 1$ bar $^{2)}$ at p₁ = 6 bar and $\Delta p = 1$ bar $^{3)}$ recommended pilot pressure regulating valve SR-1/4 (see page 23) *)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)



	-				
Pressure regulating valve	Pressure regulating valve, pilot operated	Central air line lub		Start valve	
Diaphragm-type pressure regulating valve with integrated pilot pressure regulating valve, second- ary pressure relief, inlet pressure, and volume compensation, hand- wheel lockable	Pilot operated dia- phragm-type pressure regulator ³)	Micro-mist lubrica operated differenti regulating valve fo adjustment *)	al pressure		rgency shutdown). pressure the valve
A50R	A50RV	EL-25	EL50	A50DA	A50DA
Diecast aluminum					
_	-	_		_	
NBR	NBR	-		-	
NBR					
G11/2, G2	G11/2, G2	G1	G2	G11/2	G2
SAE flange	SAE flange	-	-	SAE flange	SAE flange
-	-	-	-	-	-
_	-	-	_	_	-
-	-	-	-	-	-
_	-	2500	5000	-	-
-	-	Manual – also duri		-	-
_	_	0.2–2	0.2–2	-	-
In any position	In any position	Vertical, bowl at th	ne bottom	In any position	In any position
0 Further temperate +60	ures on request	+5 +60	+5 +60	0 Further te +60 on reques	mperatures t
3.5	3.4	10	18	3.4	3.4
0 17.5	0 17.5	10	10	2 17.5	2 17.5
0.5 to 8	0.5 to 16 p _{st} > 10	-	-		
-	-	0.2 0.8	0.2 1.0	-	-
> 40000 > 2400	> 40000 > 2400	> 20000 > 1200	> 40000 > 2400	> 40000 ²⁾ > 2400	> 40000 ²⁾ > 2400
-	-	-	-	-	-

For more characteristics of air preparation units see page 94–97



Series airfit A50 G11/2, G2

Characteristics

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

			Pressu	res quoted as gau	ige pressure	
Characteristics	Symbol	Unit	2/2 Wa	y start-stop valve	•	
System			Start-s electric	top valve, cally or pneumati	cally actuated	
Туре			A50DS			
Material						
– Housing			Diecas	t aluminum		
 Metal bowl 			-			
– Diaphragm			-			
 Standard sealings 			NBR			
Port size			G11/2		G2	
Flange connection			SAE fla	inge		
Max. condensate capacity		cm ³	-			
Pore size of filter element		μm	-		-	
Condensate drainage			-		-	
Installation			In any	position		
Medium and ambient temperatures	T T _{max}	°C ℃	0 +60	Further tempera	tures on request	
Weight (mass)		kg	3.4			
Pneumatic characteristics	S					
Operating pressure range – inlet pressure	$\begin{array}{c} p_{1\ min} \\ p_{1\ max} \end{array}$	bar bar	2 17.5			
Maximum flow 1)	Q_{\max}	l/min m³/h	> 4000 > 2400			
Degree of moisture sep- aration at recommended flow	η	%	_		-	
Residual oil amount		mg/m ³	-		-	

 $^{\scriptscriptstyle 1)} \, \text{at} \, \, \text{p}_{\scriptscriptstyle 1} = 6 \, \, \text{bar} \, \, \text{and} \, \, \Delta \text{p} = 1 \, \, \text{bar}$





3/2 Way start-stop valve	Submicrofilter	Activated carbon filter
Start-stop valve, electrically or pneumatically actuated		
A50DS	A50MF1080ADV	A50MC1080DV
Diecast aluminum	Diecast aluminum	Diecast aluminum
_	-	-
-	-	-
NBR		
G11/2 G2	G11/2 G2	G11/2 G2
SAE flange	SAE flange	SAE flange
-	600	600
	Automatic (float type)	Manual, semi-automatic (pressure relief)
In any position	Vertical, bowl at the bottom	Vertical, bowl at the bottom
0 Further temperatures or +60	n request	
5.0	6.4	6.4
2 17.5	0 17.5	0 17.5
> 40000 > 2400	10000(recommended600at 6 bar)	10000(recommended600at 6 bar)
-	Over 99.99999% related to 0.01 μm	Over 99.99999% related to 0.01 μm
-	< 0.01 input conc. 3 mg/m ³	0.003‰ in combination A50MF

Series airfit A50 G11/2, G2

Characteristics

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

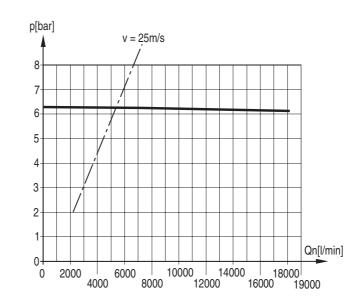




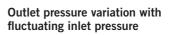
Filter-water-separator, dust filter Type: A50F-11/2, -2 Type: A50FD-11/2, -2

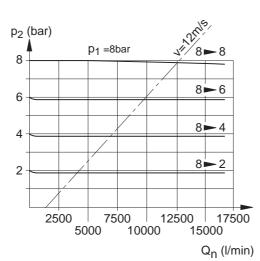
Series airfit A50 G11/2, G2

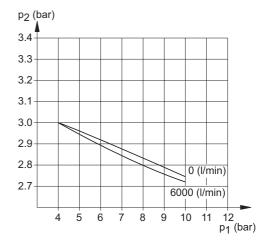
Flow characteristics



Pressure regulating valve – pilot operated Type: A50R-11/2, -2 Type: A50RV-11/2, -2





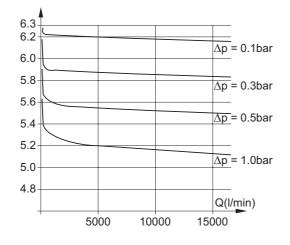








Central air line lubricator – differential pressure in relation to the flow rate Type: EL-25, -50 $\,$



Air preparation units

Series airfit A50 G11/2, G2

Flow characteristics



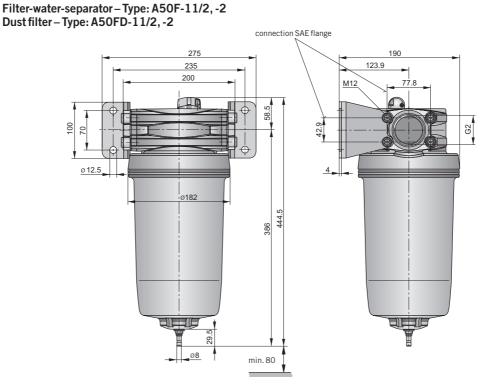


Series airfit A50 G11/2, G2 – with/without thread flanges

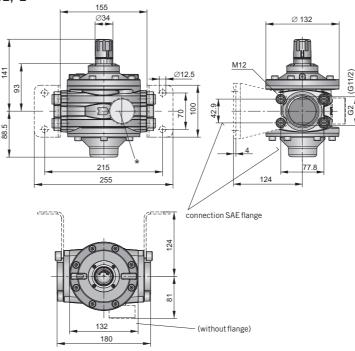
Dimensions

Delivery includes:

Basic version (without thread flanges) 1 product Version with thread flanges 1 product 2 thread flanges



Pressure regulating valve, pilot operated with integrated pilot pressure regulating valve Type: A50R-11/2, -2





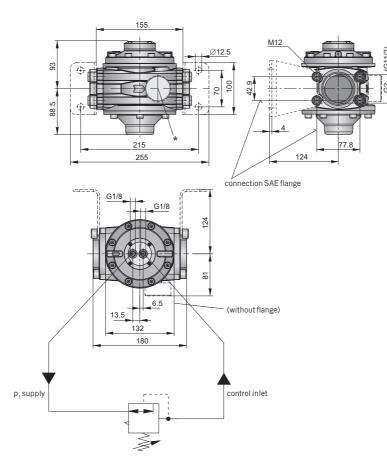
On delivery the plug screw is not assembled. Two opposite gauge ports G1/4

For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112



Pressure regulating valve, pilot operated – Type: A50RV-11/2, -2

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



Air preparation units

Series airfit A50 G11/2, G2 - with/without thread flanges

Dimensions

On delivery the plug screw is not assembled. $^{\ast}\,$ Two opposite gauge ports G1/4



For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112



Series airfit A50 G11/2, G2 – with/without thread flanges

Dimensions

Start valve

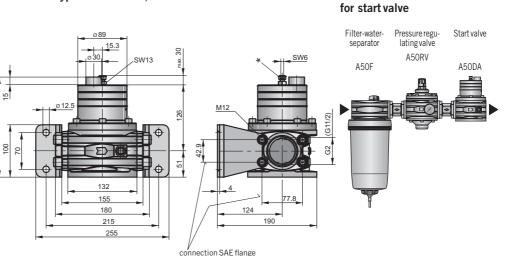
The start function is designed to provide slow pressure buildup in pneumatic equipment. It prevents uncontrolled movements in the pneumatic equipment that can occur when starting the system at full system pressure. A throttle is used to set the pressure buildup time.

2/2 Way start-stop valve

The start function is designed to provide slow pressure buildup in pneumatic equipment. It prevents uncontrolled movements in the pneumatic equipment that can occur when starting the system at full system pressure. A throttle is used to set the pressure buildup time. The stop function interrupts the air supply when the corresponding stop signal is received but does not ventilate the application (p2).



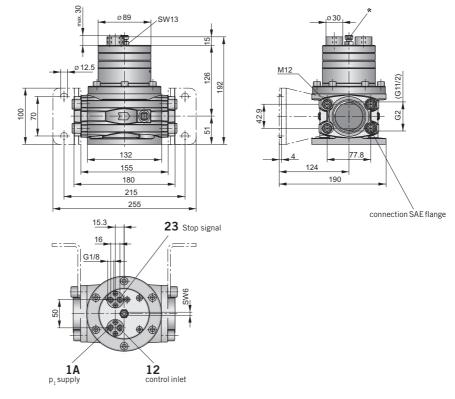
92



Installation instruction

* Adjusting screw for start time selection (socket head screw SW 6)

2/2 Way start-stop valve, pneumatically actuated – Type: A50DS-11/2, -2



* Adjusting screw for start time selection (socket head screw SW 6)

For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112



ø89 SW13 FO-Y ø 12.5 M12 126 238 (G11/2) æ 100 42.9 3 22 5 132 77.8 155 124 190 180 215 connection SAE flange 255

2/2 Way start-stop valve, electrically actuated - Type: A50DS-11/2, -2

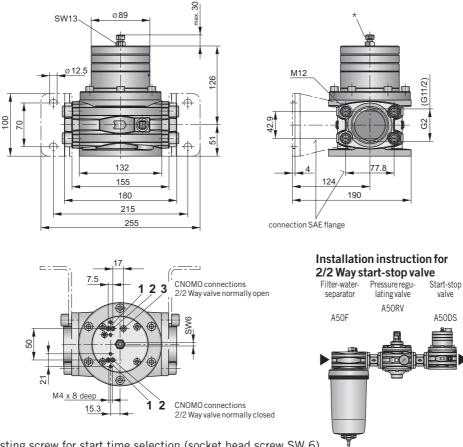
Air preparation units

Series airfit A50 G11/2, G2 - with/without thread flanges

Dimensions

* Adjusting screw for start time selection (socket head screw SW 6)

2/2 Way start-stop valve, CNOMO connections - Type: A50DS-11/2, -2



* Adjusting screw for start time selection (socket head screw SW 6)

For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112

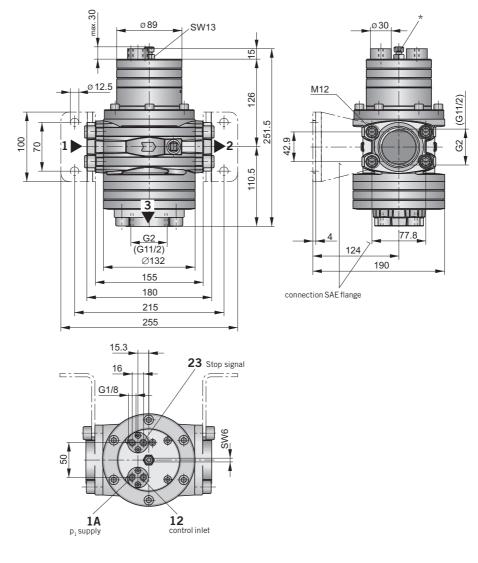


Series airfit A50 G11/2, G2 – with/without thread flanges

Dimensions

3/2 Way start-stop valve

The start function is designed to provide slow pressure buildup in pneumatic equipment. It prevents uncontrolled movements in the pneumatic equipment that can occur when starting the system at full system pressure. A throttle is used to set the pressure buildup time. The stop function interrupts the air supply when the corresponding stop signal is received and the pressure in the application (p2) is quickly relieved. 3/2 Way start-stop valve, pneumatically actuated – Type: A50DS-11/2, -2



* Adjusting screw for start time selection (socket head screw SW 6)

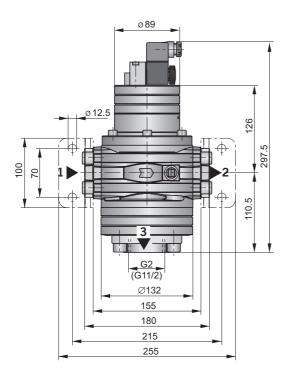
Installation instruction for 3/2 Way start-stop valve Filter-waterseparator A50F A50RV A50RV A50DS



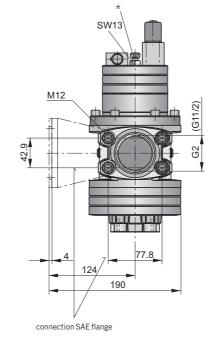
For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112



3/2 Way start-stop valve, electrically actuated - Type: A50DS-11/2, -2



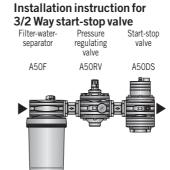
* Adjusting screw for start time selection (socket head screw SW 6)



Air preparation units

Series airfit A50 G11/2, G2 – with/without thread flanges

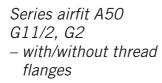
Dimensions





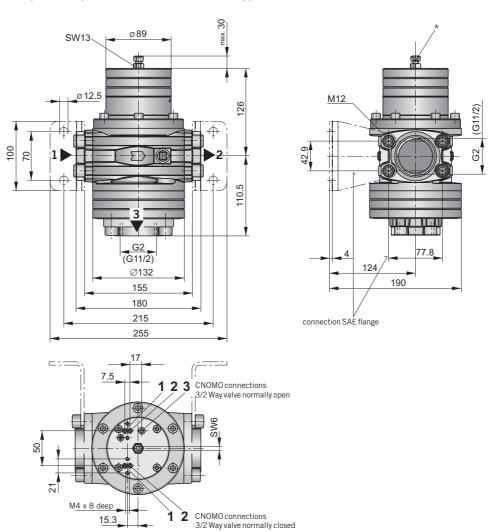
For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112





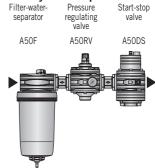
Dimensions

3/2 Way start-stop valve, CNOMO connections – Type: A50DS-11/2, -2



* Adjusting screw for start time selection (socket head screw SW 6)

Installation instruction for 3/2 Way start-stop valve



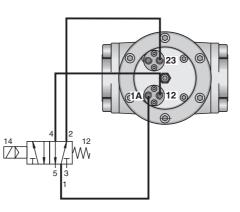


For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112

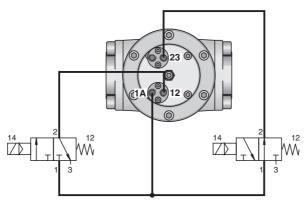


Start-stop valve, pneumatically actuated

Combined start/stop function



Combined start/stop function with acknowledgement



Further control types on request

Air preparation units

Series airfit A50 G11/2, G2 – with/without thread flanges

Control types

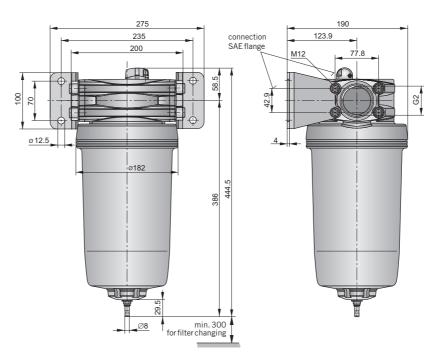


For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112



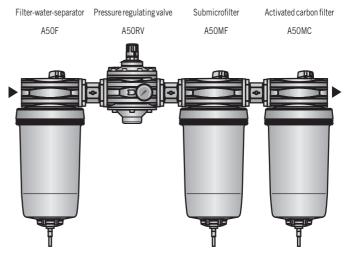
Submicrofilter – Type : A50MF-1080-11/2, -2 Activated carbon filter – Type: A50MC-1080-11/2, -

Series airfit A50 G11/2, G2 – with/without thread flanges



Installation instruction

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

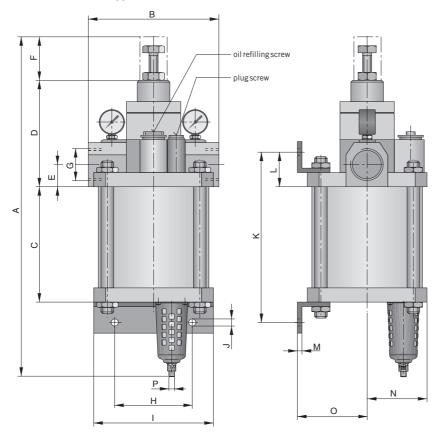




For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112



Central air line lubricator - Type: EL-25, -50



Air preparation units

Series airfit A50 G11/2, G2 – with/without thread flanges

Dimensions

Central air line lubricator

Micro-mist lubricator with oilfeed adjustment depending on differential pressure. Comprising: lubricator unit, 2 gauges, and mounting bracket

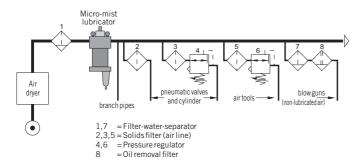
Differential pressure gauge:

Assembly kit with mounting kit For Accessories see page 112

Dimension table

Туре	А	В	С	D	E	F	G	Н	I	J	K	L	Μ	Ν	0	Р
EL-25	530	180	187	160	35	37	G1	115	180	18	304	77	3	90	110	G1/8
EL-50	608	250	225	198	46	45	G2	150	225	13	342	72	6	112.5	124.1	G1/8

Installation diagram



Installation instruction

In most cases it is advisable to install air line filters in branch pipes. When constant operating pressures are required (e.g. cylinders, pneumatic screw drivers, etc.) pressure regulators should be used. If small amounts of oil-free air are needed, a filterwater-separator followed by a submicrofilter can be installed (see Installation diagram).



For order instructions see page 108–110, for characteristics see page 92–95, for accessories see page 111, 112



Standard versions

	etandara reference				
units	Description	Symbol	Portsize	Order instruction Type	Order No.
	Filter-water-separator				
<i>Series airfit A50 G11/2, G2</i>	- Basic version		For SAE flange	A50F-ADV	PB60949-000
 with/without thread flanges 	– Basic version with filter element 5 µm		For SAE flange	A50F-5ADV	PB60949-016
Order instructions	 Basic version with connection flange* 	8	G1 1/2	A50F-1 1/2-ADV	PB 60849-050
	 Basic version with connection flange* 		G2	A50F-2-ADV	PB 60949-050
	– Version with connection flange* (with filter element 5 µm)		G11/2	A50F-1 1/2-5ADV	PB 60849-066
	– Version with connection flange* (with filter element 5 µm)		G2	A50F-2-5ADV	PB 60949-066
	– Dust filter basic version (with filter element 1 μm)	0	For SAE flange	A50FD-DV	PB 60949-120
	 – Dust filter with connection flange* (with filter element 1 µm) 		G1 1/2	A50FD-1 1/2-DV	PB 60849-170
	 Dust filter with connection flange* (with filter element 1 µ) 		G2	A50FD-2-DV	PB60949-170
	Pressure regulating valve				
	 Basic version with integrated pilot pressure regulating valve 		For SAE flange	A50R	PB60649-021
* Connection flanges are not	 Basic version pilot operated (without pilot regulator) 		For SAE flange	A50RV	PB60649-000
supplied assembled	 Version with connection flange* with integrated pilot pressure regulating valve 		G1 1/2	A50R-1 1/2	PB60549-070
	 Version with connection flange* with integrated pilot pressure regulating valve 		G2	A50R-2	PB60649-070
	 Version with connection flange* pilot operated (without pilot regulator) 		G1 1/2	A50RV-1 1/2	PB60549-050
	 Version with connection flange* pilot operated (without pilot regulator) 		G2	A50RV-2	PB60649-050
Northera -					



Standard versions Description Symbol Port size Order instruction Order No. Type Start valve PB 60649-100 - Start valve without For SAE A50DA connection flange flange G1 1/2 A50DA-1 1/2 PB 60549-150 Start valve with connection flange* G2 A50DA-2 PB 60649-150 2/2 Way start-stop valve -pneumatically actuated For SAE A50DS-P PB 60649-200 flange -pneumatically actuated G1 1/2 A50DS-1 1/2-P PB 60549-250 with connection flange* G2 A50DS-2-P PB 60649-250 For SAE electrically actuated 230V/50Hz A50DS-E PB 60649-204 flange ₩∏₽ G1 1/2 A50DS-1 1/2-E PB 60549-254 PB 60649-254 G2 A50DS-2-E with connection flange* electrically actuated 24V DC For SAE A50DS-E PB 60649-201 flange A50DS-1 1/2-E PB 60549-251 G1 1/2 ▝॒ष्यान्ते₩५── ₩₩₩ A50DS-2-E PB 60649-251 G2 with connection flange* - CNOMO connection For SAE A50DS-C PB 60649-210 flange G1 1/2 A50DS-1 1/2-C PB 60549-260 A50DS-2-C PB 60649-260 G2 with connection flange* 3/2 Way start-stop valve -pneumatically actuated For SAE A50DS-P PB 60649-220 flange -pneumatically actuated G1 1/2 A50DS-1 1/2-P PB 60549-270 with connection flange* ≁T.T.\w G2 A50DS-2-P PB 60649-270 - electrically actuated 230V/50Hz A50DS-E PB 60649-224 For SAE flange A50DS-1 1/2-E PB 60549-274 G1 1/2 G2 A50DS-2-E PB 60649-274 with connection flange*

Air preparation units

Series airfit A50 G11/2, G2 – with/without thread flanges

Order instructions

* Connection flanges are not supplied assembled



For more types see page 110

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A4P006E-October 2007



Series airfit A50 G11/2, G2 – with/without thread flanges

Order instructions

* Connection flanges are not supplied assembled



Standard	versions
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Description	Symbol	Portsize	Orderinstruction		
			Туре	Order No.	
3/2 Way start-stop valve – co	ntinued from p	age 109			
- electrically actuated 24V		for SAE flange	A50DS-E	PB 60649-221	
- electrically actuated 24V with		G1 1/2	A50DS-1 1/2-E	PB 60549-271	
connection flange*		G2	A50DS-2-E	PB 60649-271	
- CNOMO connection		For SAE flange	A50DS-C	PB 60649-230	
		G1 1/2	A50DS-1 1/2-C	PB 60549-280	
with connection flange*		G2	A50DS-2-C	PB 60649-280	
Submicrofilter					
- with automatic drainage	\wedge	For SAE flange	A50MF1080-ADV	PB61249-000	
-with automatic drainage	$ $ \langle $ $ \rangle	G1 1/2	A50MF1080-11/2-ADV	PB61149-050	
with connection flange*	\bigtriangledown	G2	A50MF1080-2-ADV	PB61249-050	
Activated carbon filter					
- Basic version	<u></u>	For SAE flange	A50MC1080-DV	PB61549-000	
-Basic version with con-	$ $ \langle $ $ \rangle	G1 1/2	A50MC1080-11/2-DV	PB61449-050	
nection flange*		G2	A50MC1080-2-DV	PB61549-050	
Central air line lubricator					
- Basic version with		G1	EL-25	PB15749-020	
aluminum tube with electrical oil level control		G2	EL-50	PB15549-020	
		G2	EL-50-E	PB 15549-026	
Accessories					

Acces	sori	es

Accessories		
Description	Fortype	Order No.
Mounting kit (2 brackets + 4 screws)		PL18672
Gauge, Ø 50 mm, 0–16 bar, G1/4 *		KG8013
Coupling kit		PL18735
Connection flange (kit) G1 1/2		PL18660
Connection flange (kit) G2		PL18662
Porting block kit G1 with flange for pressure switch mounting		PL18779
Differential pressure gauge for central air line lubricator (mounting kit, brackets included)	EL-25	PL17653
Differential pressure gauge for central air line lubricator (mounting kit, brackets included)	EL-50	PL17652
* for more gauges see page 186, 187 For more information see accessories page 111,	112	



Series airfit A50 G11/2, G2

– Porting block kit

To provide unlubricated air

For pressure switch mounting

Accessories

e.g. for air gun.

Delivery includes:

2 flanges 2 o-rings for flanges 8 screws

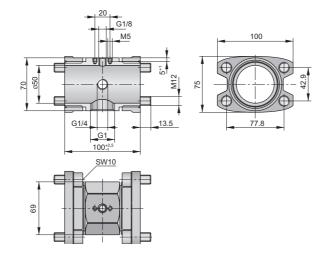
as standard

1 tube

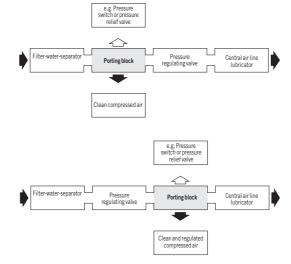
2 o-rings 4 plug screws

Characteristics	Description
Installation	Between 2 units of the series airfit A50
Mounting	Directly flange mountable with coupling kit supplied
Material	Aluminum

Dimensions



Installation instruction



Order instructions

Description	Order instruc	Order instruction	
	Туре	Order No.	
Porting block kit G2 (G11/2)	A50X	PL 18779	





Series airfit A50 G11/2, G2

Accessories



Order No. PL18672





Order No. PL18735

Gauge Ø 50, 0–10 bar, G1/4



Order No. KG8012 (0–10 bar) KG8013 (0–16 bar)

For more gauges see page 186, 187

Connection flange -kit

Differential pressure gauge (mounting kit, brackets included)



Order No. PL 18660 (G2) PL 18662 (G11/2)



Order No. EL-20/25 PL 17653 EL-40/50 PL 17652