

Branching modules/distributor blocks MS-FRM, MS series

FESTO



Festo Core Range
Solves the majority of your automation tasks

Worldwide:
Simply good:
Fast:

Quickest delivery – wherever, whenever
Expected high Festo quality
Easy and fast to select

With the Festo Core Range, we have selected the most important products and functions from our broad product catalogue, and added the quickest delivery.

The Core Range offers you the best value for your automation tasks.

Just look
for the
star!

Key features

Service unit components of the MS series

Solutions for every application

With its large product range, highly effective components and a wide choice of functions, the MS series from Festo offers a complete concept for compressed air preparation. It is suitable for simple standard applications as well as application-specific solutions with very high quality requirements. Available as individual components, pre-assembled combinations ex-stock,

application-specific combinations or complete turnkey solutions. The five sizes in the MS series achieve maximum flow rates with low space requirements.

Freely combinable function modules

Pressure regulators, on/off and soft-start valves with safety function, filters, pressure and flow sensors, dryers, sensors and lubricators can be assembled into a suitable solution for every task. With the modular structure the components can be combined as required. The simple connection system saves time because the entire combination doesn't need to be disassembled when replacing individual modules.

Many of the components are also UL and ATEX certified.

CAD models and configurator

Convenient tools for planning and selecting application-specific individual devices and combinations. The product configurator lets you configure customised solutions quickly and transfer the order data without any hassle.

Engineering tools

Selection tool for choosing the right combination of service unit components without oversizing, and with the right air purity class:

→ www.festo.com/engineering/service-unit

Air quality

This program supports configuring an appropriate service unit. Please insert the required air cleanliness either by your application or an ISO-code or by direct selection of air filters.

Selection criteria: Application

Filter combination is proposed based upon your selected application

- ☐ standard pneumatics operation of valves and cylinders, e.g. in automotive industry, secondary packaging
- ☐ mining and building industry applications without special air cleanliness requirements
- ☐ application of pressure operated tools and machines pneumatic hammer, air engine, positioning with proportional valve
- ☐ electronic, flatpanel and solar industry, textile and paper production application with residual oil content < 0.5 mg/m³
- ☐ painting, powder coating, air bearing application with residual oil content < 0.01 mg/m³
- ☐ food and beverage industry, optics application with residual oil content < 0.003 mg/m³ reduction of oil vapours and aromas

Selection criteria: ISO-class

Filter combination is proposed based upon the air cleanliness class according to ISO 8573-1:2010

particle : 4 * : oil

ISO

* Downstream from the compressor the water content is assumed to be ISO class 4. Better classes can be achieved by applying an adsorption dryer PDAD or a membrane dryer LDM1

Direct filter selection

Independent selection of filter combination

- ☐ 40 µm Filter
- ☐ 5 µm Filter
- ☐ 1 µm Fine Filter
- ☐ 0.01 µm Micro Filter *
- ☐ Active Carbon Filter



* To enhance the filter lifetime and in consequence the maintenance interval arrange a 1 µm Fine Filter in front of the 0.01 µm Micro Filter as a preliminary filter.

Integrated sensors

Pressure and flow sensors



- Maximum machine availability thanks to controlled processes
- Reliable compressed air preparation and supply for systems
- Integrated or stand-alone
- Easy to connect with M8/M12 plug

Safety functions

Soft-start/quick exhaust valves

MS6-SV/MS9-SV



- Fast and reliable exhausting of systems up to Performance Level e, certified to EN ISO 13849-1
- Integrated soft-start function

Saving energy

Service unit combinations MSE6



- Fully automatic monitoring and regulation of the compressed air supply
- Automatic shut-off of the compressed air in stand-by mode
- Detection and notification of leaks
- Condition monitoring of relevant process data

Intelligent mix of sizes



- Optimum flow rate with a size that is up to 18% smaller
- Excellent energy efficiency
- Cost-optimised combinations – save up to 30%!

Size differences

Size	MS2	MS4	MS6	MS9	MS12
Grid dimension [mm]	25	40	62	90	124
Connection sizes	M5, QS-6	G1/8, G1/4, G3/8	G1/4, G3/8, G1/2, G3/4	G1/2, G3/4, G1, G1 1/4, G1 1/2	G1, G1 1/4, G1 1/2, G2
Standard nominal flow rate q _N ¹⁾ [l/min]	350	1800	6500	20000	22000

1) Using pressure regulator MS-LR as an example

Key features

Note

Information

The next few pages provide a brief overview of the product range for the MS series service unit components.

You can find detailed information and all the technical data in the documentation for the relevant service unit component.

Accessories such as connecting plates or mounting brackets can be ordered either via the configurator or separately.

Design of a service unit combination

The order of the individual components within a service unit combination is relevant for safety and functionality. The service unit components cannot be combined in any order in the flow direction. They are subject to restrictions and rules.

The configurator for the service unit MSB is a reliable and convenient way of combining the individual service unit components and ensures compliance with the applicable rules. As a result, you get a fully assembled unit, including UL or ATEX certification, if necessary.

When combining a unit from individually configured and ordered service unit components, the following points must be adhered to under all circumstances.

- Regulators MS-LFR/LR/LRP/LRE are only permissible in the flow direction with the same or decreasing pressure regulation range
- Filters MS-LFR/LF/LFM/LFX are only permissible in the flow direction with an increasing grade of filtration
- Lubricators MS-LOE are not permitted in the flow direction upstream of a filter MS-LFR/LFM/LF/LFX, water separator MS-LWS or membrane air dryer MS-LDM1

- A micro filter MS-LFM must be installed in the flow direction upstream of an activated carbon filter MS-LFX or membrane air dryer MS-LDM1
- A flow sensor SFAM cannot be installed directly downstream of a regulator MS-LFR/LR; a branching module MS-FRM must be positioned between them
- A soft-start/quick exhaust valve MS-SV must be the last service unit component in the flow direction

Product range for service unit components of the MS series								
Type	Description	Size	Pneumatic connection					
			Push-in connector	Female thread			Connecting plate with thread	
				M	G	NPT	G	NPT
Combinations								
Service unit combinations MSB-FRC								Datasheets → Internet: msb
	Combinations of filter regulator and lubricator	4	–	–	1/8, 1/4	–	–	–
		6	–	–	1/4, 3/8, 1/2	–	–	–
Service unit combinations MSB								
Service unit combinations MSB								Datasheets → Internet: msb
	Certain predefined combinations	4	–	–	1/4	–	–	–
		6	–	–	1/2	–	–	–
	Freely configurable combinations	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
Service unit combinations MSE6								
Service unit combinations MSE6								Datasheets → Internet: mse6
	Combinations with fieldbus connection for measuring pressure, flow rate and consumption	6	–	–	–	–	1/2	–

Key features

Product range for service unit components of the MS series								
Type	Description	Size	Pneumatic connection					
			Push-in connector	Female thread			Connecting plate with thread	
				M	G	NPT	G	NPT
Individual devices								
Filter regulators MS-LFR			Datasheets → Internet: ms2-lfr; ms4-lfr; ms6-lfr; ms9-lfr; ms12-lfr					
	Filter and pressure regulator in a single device, grade of filtration 5 or 40 µm	2	QS-6	M5	–	–	–	–
		4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
Filter regulators MS-LFR-B			Datasheets → Internet: ms4-lfr-b; ms6-lfr-b					
	Filter and pressure regulator in a single device in polymer housing, grade of filtration 5 or 40 µm	4	–	–	1/4	–	–	–
		6	–	–	1/2	–	–	–
Filters MS-LF			Datasheets → Internet: ms4-lf; ms6-lf; ms9-lf; ms12-lf					
	Grade of filtration 5 or 40 µm	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
Fine and micro filters MS-LFM			Datasheets → Internet: ms4-lfm; ms6-lfm; ms9-lfm; ms12-lfm					
	Grade of filtration 0.01 or 1 µm	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
Activated carbon filters MS-LFX			Datasheets → Internet: ms4-lfx; ms6-lfx; ms9-lfx; ms12-lfx					
	For removing liquid and gaseous oil particles	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
Water separators MS-LWS			Datasheets → Internet: ms6-lws; ms9-lws; ms12-lws					
	Remove condensate from compressed air, maintenance-free	6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–

Key features

Product range for service unit components of the MS series								
Type	Description	Size	Pneumatic connection					
			Push-in connector	Female thread			Connecting plate with thread	
				M	G	NPT	G	NPT
Individual devices								
Pressure regulators MS-LR			Datasheets → Internet: ms2-lr; ms4-lr; ms6-lr; ms9-lr; ms12-lr					
	For setting the required operating pressure, 4 pressure regulation ranges	2	QS-6	M5	–	–	–	–
		4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
Pressure regulators MS-LR-B			Datasheets → Internet: ms4-lr-b; ms6-lr-b					
	For setting the required operating pressure, in polymer housing	4	–	–	1/4	–	–	–
		6	–	–	1/2	–	–	–
Pressure regulators MS-LRB			Datasheets → Internet: ms4-lrb; ms6-lrb					
	For configuring a regulator manifold with independent pressure regulation ranges. Pressure output is to the front or rear.	4	–	–	1/4	–	1/8, 1/4, 3/8	–
		6	–	–	1/2	–	1/4, 3/8, 1/2, 3/4	–
Precision pressure regulators MS-LRP			Datasheets → Internet: ms6-lrp					
	For precisely setting the required operating pressure, 4 pressure regulation ranges, pressure hysteresis 0.02 bar	6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
Precision pressure regulators MS-LRPB			Datasheets → Internet: ms6-lrpb					
	For configuring a regulator manifold with independent pressure regulation ranges. Pressure output is to the front or rear.	6	–	–	1/2	–	1/4, 3/8, 1/2, 3/4	–
Lubricators MS-LOE			Datasheets → Internet: ms4-loe; ms6-loe; ms9-loe; ms12-loe					
	Add a precisely adjustable amount of oil to the compressed air. The amount of oil mist is proportional to the compressed air flow rate.	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–

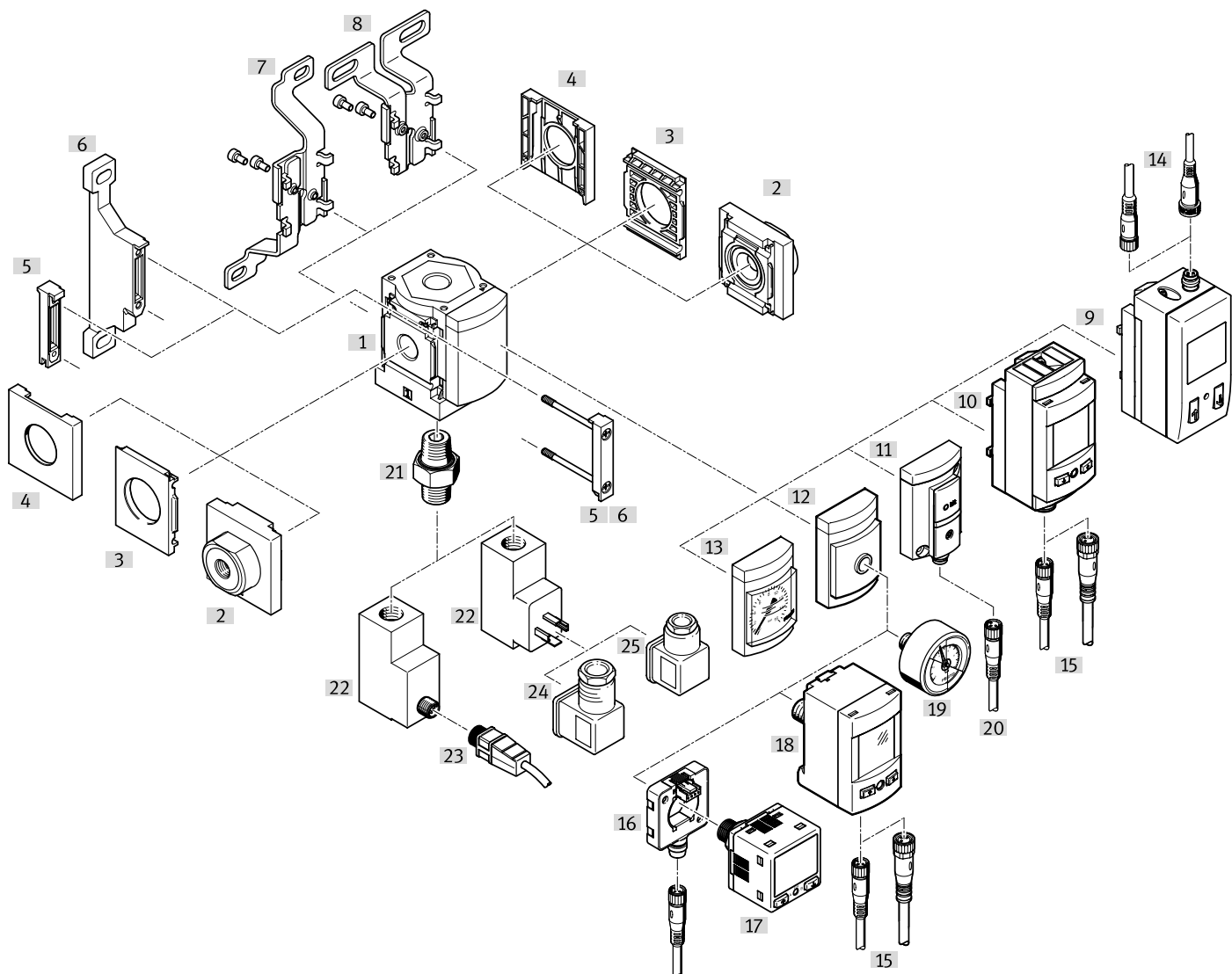
Key features

Product range for service unit components of the MS series								
Type	Description	Size	Pneumatic connection					
			Push-in connector	Female thread			Connecting plate with thread	
			M	G	NPT	G	NPT	
Individual devices								
On/off valves MS-EM			Datasheets → Internet: ms4-em; ms6-em; ms9-em; ms12-em					
	Manually actuated on/off valve for pressurising and exhausting pneumatic systems.	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
On/off valves MS-EE								
	Electrically actuated on/off valve for pressurising and exhausting pneumatic systems.	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
On/off valves MS-EE-B								
	Electrically actuated on/off valve in polymer housing for pressurising and exhausting pneumatic systems.	4	–	–	1/4	–	–	–
		6	–	–	1/2	–	–	–
Soft-start valves MS-DL								
	Pneumatically actuated soft-start valve for slowly pressurising and exhausting pneumatic systems.	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
Soft-start valves MS-DE								
	Electrically actuated soft-start valve for slowly pressurising and exhausting pneumatic systems.	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
On/off valves MS-EDE-B								
	Electrically actuated soft-start valve in polymer housing for slowly pressurising and exhausting pneumatic systems.	4	–	–	1/4	–	–	–
		6	–	–	1/2	–	–	–
Soft-start/quick exhaust valves MS-SV								
	For gradually increasing pressurisation and quick, safe pressure reduction in pneumatic piping systems. Up to category 1, PL c.	6	–	–	1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
	Up to category 3, PL d. Up to category 4, PL e in the case of optional extension.	6	–	–	1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
	Up to category 4, PL e.	6	–	–	1/2	–	1/4, 3/8, 1/2, 3/4	–

Key features

Product range for service unit components of the MS series								
Type	Description	Size	Pneumatic connection					
			Push-in connector	Female thread			Connecting plate with thread	
				M	G	NPT	G	NPT
Individual devices								
Membrane air dryers MS-LDM1 Datasheets → Internet: ms4-ldm; ms6-ldm								
	Wear-free membrane dryer with internal air consumption	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	1/8, 1/4, 3/8
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	1/4, 3/8, 1/2, 3/4
Branching modules MS-FRM Datasheets → Internet: ms4-frm; ms6-frm; ms9-frm; ms12-frm								
	Compressed air distributors with 4 connections	4	–	–	1/8, 1/4	–	1/8, 1/4, 3/8	–
		6	–	–	1/4, 3/8, 1/2	–	1/4, 3/8, 1/2, 3/4	–
		9	–	–	3/4, 1	3/4, 1	1/2, 3/4, 1, 1 1/4, 1 1/2	1/2, 3/4, 1, 1 1/4, 1 1/2
		12	–	–	–	–	1, 1 1/4, 1 1/2, 2	–
Distributor blocks MS-FRM-FRZ Datasheets → Internet: ms4-frm-frz; ms6-frm-frz								
	Compressed air distributors with 4 connections and half the grid width	4	–	–	–	–	–	–
		6	–	–	–	–	–	–
Flow sensors SFAM Datasheets → Internet: sfam								
	For absolute flow rate information and cumulative air consumption measurement	6	–	–	–	–	1/2	1/2
		9	–	–	–	–	1, 1 1/2	1, 1 1/2

Peripherals overview



Note

Additional accessories:

- Module connector for combination with size MS4/MS6 or size MS9
→ Internet: amv, rmv, armv
- Adapter for mounting on profiles
→ Internet: ipm-80, ipm-40-80, ipm-80-80

Peripherals overview

Mounting attachments and accessories		Order code	→ Page/Internet
[1]	Branching modules MS4/6-FRM		8
Can be ordered via the modular product system			
[2]	Connecting plate SET ¹⁾	[AG...]	18
[6]	Mounting bracket	[WP]	
	Mounting bracket (not shown)	[WPM]	
[7]	Mounting bracket	[WB]	
[8]	Mounting bracket	[WBM]	
[9]	Pressure sensor SDE1 with LCD display	[AD1]/[AD2]/[AD3]/[AD4]	
[10]	Pressure sensor SPAU with LCD display	[AD11]/[AD12]	
[11]	Pressure sensor SDE5 with status indicator	[AD7]/[AD8]/[AD9]/[AD10]	
[12]	Adapter for EN pressure gauge 1/8, 1/4	[A8]/[A4]	
[13]	MS pressure gauge	[AG]/[RG]	
[22]	Pressure switch PEV ²⁾	[X]/[Y]/[M12]	
Can be ordered as accessories			
[2]	Connecting plate SET ³⁾	MS4/6-AG...	ms4-ag, ms6-ag
[3]	Mounting plate ³⁾	MS4/6-AEND	ms4-aend, ms6-aend
[4]	Cover cap	MS4/6-END	ms4-end, ms6-end
[5]	Module connector	MS4/6-MV	ms4-mv, ms6-mv
[6]	Mounting bracket	MS4/6-WP	ms4-wp, ms6-wp
	Mounting bracket (not shown)	MS4/6-WPB/WPE/WPM	ms4-wp, ms6-wp
[7]	Mounting bracket	MS4/6-WB	ms4-wb, ms6-wb
[8]	Mounting bracket	MS4-WBM	ms4-wbm
[14]	Connecting cable	NEBU-M8...-LE3/NEBU-M12...-LE4	37
[15]	Connecting cable	NEBU-M8...-LE4/NEBU-M12...-LE4	37
[16]	Electrical adapter	SASC	36
[17]	Pressure sensor	SPAN	36
[18]	Pressure sensor	SPAU-...-T	36
[19]	Pressure gauge	MA	36
[20]	Connecting cable	NEBU-M8...-LE3	37
[21]	Double nipple	ESK	37
[23]	Connecting cable	NEBU-M12...-LE4	37
[24]	Angled plug socket	PEV-1/4-WD-LED-...	37
[25]	Plug socket	MSSD-C-4P	37

1) Module connector [4] is included in the scope of delivery.

2) Double nipple [20] is included in the scope of delivery.

3) Module connector MS4/6-MV [4] or mounting bracket MS4/6-WP/WPB/WPE/WPM [5] is required for mounting.

Type codes – MS4-FRM

001	Series	
MS4	MS series, size 4	
002	Size	
4	Grid dimension 40 mm	
003	Function	
FRM	Branching module	
004	Pneumatic connection	
1/8	Female thread G1/8	
1/4	Female thread G1/4	
AGA	Sub-base G1/8	
AGB	Sub-base G1/4	
AGC	Sub-base G3/8	
005	Additional function	
	None	
I	With integrated non-return function	
006	Pressure gauge alternatives	
	None	
AG	MS pressure gauge	
A8	Adapter for EN pressure gauge 1/8, without pressure gauge	
A4	Adapter for EN pressure gauge 1/4, without pressure gauge	
RG	Integrated pressure gauge, red/green scale	
AD1	Pressure sensor with LCD display, M8 plug, PNP, 3-pin	
AD2	Pressure sensor with LCD display, M8 plug, NPN, 3-pin	
AD3	Pressure sensor with LCD display, M12 plug, PNP, 4-pin, analogue output 4 ... 20 mA	
AD4	Pressure sensor with LCD display, M12 plug, NPN, 4-pin, analogue output 4 ... 20 mA	
AD7	Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/O	
AD8	Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/C	
AD9	Pressure sensor with switching display, M8 plug, window comparator, PNP, N/O	
AD10	Pressure sensor with operational status indicator, M8 plug, window comparator, PNP, N/C	
AD11	Pressure sensor with LCD display, M12 plug, 4-pin, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA	
AD12	Pressure sensor with LCD display, M8 plug, 4-pin, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA	

007	Alternative pressure gauge scale	
	MS pressure gauge	
PSI	psi	
MPA	MPa	
008	Pressure switch	
	None	
X	Pressure switch PEV with display, plug socket, EN 175301, type A, cube	
Y	Pressure switch PEV without display, plug socket, EN 175301, type A, cube	
M12	Pressure switch PEV without display, plug socket, round, M12, 4-pin	
009	Type of mounting	
	Without mounting bracket	
WP	Mounting bracket basic design	
WPM	Mounting bracket for hooking in service unit components	
WB	Mounting centrally at rear (wall mounting top and bottom), connecting plates not required	
WBM	Mounting centrally at rear (wall mounting top), connecting plates not required	
010	EU certification	
	None	
EX4	II 2GD	
011	UL certification	
	None	
UL1	cULus ordinary location for Canada and USA	
012	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Type codes – MS6-FRM

001	Series	
MS6	MS-series, size 6	
002	Size	
6	Grid dimension 62 mm	
003	Function	
FRM	Branching module	
004	Pneumatic connection	
1/4	Female thread G1/4	
3/8	Female thread G3/8	
1/2	Female thread G1/2	
AGB	Sub-base G1/4	
AGC	Sub-base G3/8	
AGD	Sub-base G1/2	
AGE	Sub-base G3/4	
005	Additional function	
	None	
I	With integrated non-return function	
006	Pressure gauge alternatives	
	None	
AG	MS pressure gauge	
A8	Adapter for EN pressure gauge 1/8, without pressure gauge	
A4	Adapter for EN pressure gauge 1/4, without pressure gauge	
RG	Integrated pressure gauge, red/green scale	
AD1	Pressure sensor with LCD display, M8 plug, PNP, 3-pin	
AD2	Pressure sensor with LCD display, M8 plug, NPN, 3-pin	
AD3	Pressure sensor with LCD display, M12 plug, PNP, 4-pin, analogue output 4 ... 20 mA	
AD4	Pressure sensor with LCD display, M12 plug, NPN, 4-pin, analogue output 4 ... 20 mA	
AD7	Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/O	
AD8	Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/C	
AD9	Pressure sensor with switching display, M8 plug, window comparator, PNP, N/O	
AD10	Pressure sensor with operational status indicator, M8 plug, window comparator, PNP, N/C	
AD11	Pressure sensor with LCD display, M12 plug, 4-pin, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA	
AD12	Pressure sensor with LCD display, M8 plug, 4-pin, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA	

007	Alternative pressure gauge scale	
	MS pressure gauge	
PSI	psi	
MPa	MPa	

008	Pressure switch	
	None	
X	Pressure switch PEV with display, plug socket, EN 175301, type A, cube	
Y	Pressure switch PEV without display, plug socket, EN 175301, type A, cube	
M12	Pressure switch PEV without display, plug socket, round, M12, 4-pin	

009	Type of mounting	
	Without mounting bracket	
WP	Mounting bracket basic design	
WPM	Mounting bracket for hooking in service unit components	
WB	Mounting centrally at rear (wall mounting top and bottom), connecting plates not required	

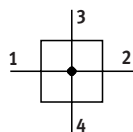
010	EU certification	
	None	
EX4	II 2GD	

011	UL certification	
	None	
UL1	cULus ordinary location for Canada and USA	

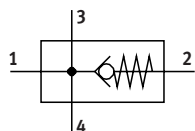
012	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

Function
Standard



With integrated non-return function



- Flow rate
1200 ... 14700 l/min
- Temperature range
-10 ... +60°C
- Operating pressure
0 ... 20 bar



- Compressed air distributors with 4 connections
- Can be used as an intermediate distributor for varying air qualities
- Support for auxiliary modules
- Outlet at top and bottom
- An integrated check valve prevents return flow, e.g. of lubricated compressed air
- Optional pressure sensor
- Optional device variant EX4 for use in potentially explosive areas in zones 1, 2, 21 and 22

General technical data

Size	MS4	MS6
Pneumatic connection 1, 2		
Female thread	G1/8 or G1/4	G1/4, G3/8 or G1/2
Connecting plate [AG...]	G1/8, G1/4 or G3/8	G1/4, G3/8, G1/2 or G3/4
Pneumatic connection 3, 4	G1/4	G1/2
Design	Branching module Branching module with non-return function	
Type of mounting	Via accessories In-line installation	
Mounting position	Any ¹⁾	
Pressure indication	Via pressure sensor for indicating the output pressure via LCD display and electrical output Via pressure sensor for indicating the output pressure via status indicator and electrical output Via pressure gauge for displaying the output pressure Via pressure gauge with red/green scale for indicating the output pressure Prepared for G1/8 Prepared for G1/4	

1) The branching module must be mounted vertically when combined with a pressure sensor as condensate must not collect in the pressure sensor.

• Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate $q_{nN}^{1)}$ [l/min]

Size	MS4		MS6		
Pneumatic connection 1, 2	G1/8	G1/4	G1/4	G3/8	G1/2
Standard					
In main flow direction 1 → 2	1800	4600	4200	9200	14700
Outlet at the top	1600	1500	6000	4700	4400
Outlet underneath	1700	1500	6400	4800	4600
With non-return function					
In main flow direction 1 → 2	1200	1750	3200	5500	6000
Outlet at the top	500	500	2700	2900	3100
Outlet underneath	500	500	2800	3200	3300

1) Measured at $p_1 = 6$ bar and $p_2 = 5$ bar, $\Delta p = 1$ bar

Electrical data¹⁾

Operating voltage range AC	[V]	0 ... 250
Operating voltage range DC	[V]	0 ... 125

1) Only in combination with pressure switch

Datasheet

Operating and environmental conditions						
Size	MS4			MS6		
Branching module	Without pressure switch/pressure sensor	With pressure switch	With pressure sensor	Without pressure switch/pressure sensor	With pressure switch	With pressure sensor
Operating pressure [bar]	0 ... 14 (0 ... 10) ¹⁾	0 ... 12 (0 ... 10) ¹⁾	0 ... 10	0 ... 20 (0 ... 10) ¹⁾	0 ... 12 (0 ... 10) ¹⁾	0 ... 10
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
	Inert gases					
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Ambient temperature [°C]	-10 ... +60		0 ... +50	-10 ... +60		0 ... +50
Temperature of medium [°C]	-10 ... +60		0 ... +50	-10 ... +60		0 ... +50
Storage temperature [°C]	-10 ... +60					
Corrosion resistance class CRC ²⁾	2					
Food-safe ³⁾	See supplementary material information					
UL certification ³⁾	c UL us - Recognized (OL)					

1) Value in brackets applies to MS4-FRM with non-return function or to MS4/MS6-FRM with UL certification.

2) More information www.festo.com/x/topic/crc

3) More information: www.festo.com/catalogue/ms-frm → Support/Downloads.

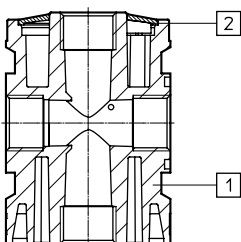
ATEX	
EU certification	EX4
ATEX category for gas	II 2G
Type of (ignition) protection for gas	Ex h IIC T6 Gb X
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex h IIIC T60°C Db X
Explosion ambient temperature	-10°C ≤ Ta ≤ +60°C
Explosion protection certification outside the EU	EPL Db (GB) EPL Gb (GB)
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)
UKCA marking (see declaration of conformity) ¹⁾	To UK regulations for explosions

1) More information: www.festo.com/catalogue/ms-frm → Support/Downloads.

Weight [g]		
Size	MS4	MS6
Branching module	165	458
Branching module with non-return function	160	400
Branching module with pressure sensor for LCD display	245	528
Branching module with pressure sensor for status indicator	182	488
Branching module with pressure switch	405	736

Materials

Sectional view



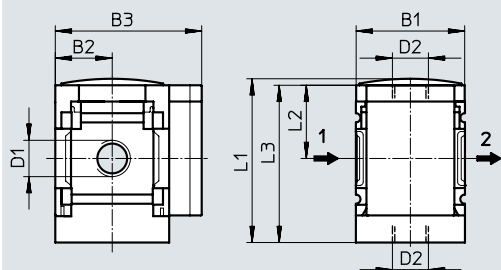
Branching module		
[1]	Housing	Die-cast aluminium
[2]	Cover	Reinforced PA
Note on materials		RoHS-compliant
LABS (PWIS) conformity		VDMA24364-B1/B2-L

Datasheet

Dimensions – Basic version

Download CAD data → www.festo.com

With female thread, with cover plate



→ Flow direction

Type	B1	B2	B3	D1	D2	L1	L2	L3
MS4-FRM-1/8	40	21	54	G1/8	G1/4	60.4	27	58
MS4-FRM-1/4				G1/4				
MS6-FRM-1/4	62	31	76	G1/4	G1/2	87.2	39	84.5
MS6-FRM-3/8				G3/8				
MS6-FRM-1/2				G1/2				

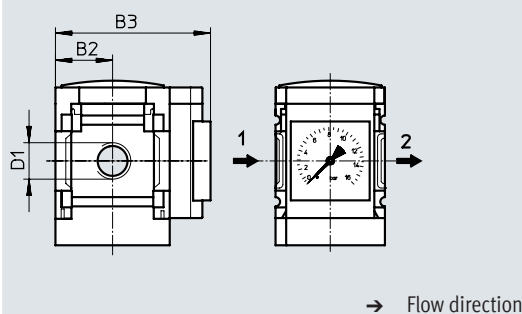
Note: This product conforms to ISO 1179-1 and ISO 228-1.

Dimensions – Pressure gauges/adapters

Download CAD data → www.festo.com

[AG] Integrated MS pressure gauge with standard scale

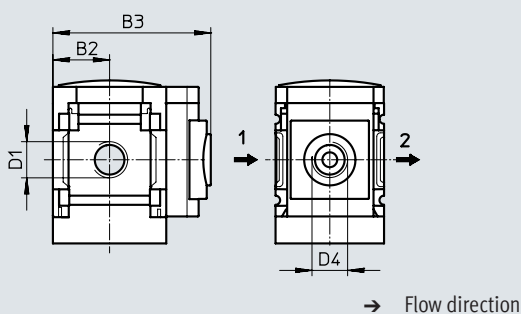
[RG] Integrated MS pressure gauge with red/green scale



→ Flow direction

[A8] Adapter for EN pressure gauge 1/8, without pressure gauge

[A4] Adapter for EN pressure gauge 1/4, without pressure gauge



→ Flow direction

Type	B2	B3		D1	D4
		Standard	With integrated non-return function		
MS4-FRM-1/8-...-AG	21	65		G1/8	–
MS4-FRM-1/4-...-AG				G1/4	
MS4-FRM-1/8-...-RG	21	66.5		G1/8	–
MS4-FRM-1/4-...-RG				G1/4	
MS4-FRM-1/8-...-A8	21	58.5		G1/8	G1/8
MS4-FRM-1/4-...-A8				G1/4	
MS4-FRM-1/8-...-A4	21	58.5		G1/8	G1/4
MS4-FRM-1/4-...-A4				G1/4	
MS6-FRM-1/4-...-AG	31	77	85	G1/4	–
MS6-FRM-3/8-...-AG				G3/8	
MS6-FRM-1/2-...-AG				G1/2	
MS6-FRM-1/4-...-RG	31	78.5	86.5	G1/4	–
MS6-FRM-3/8-...-RG				G3/8	
MS6-FRM-1/2-...-RG				G1/2	
MS6-FRM-1/4-...-A8	31	78.5		G1/4	G1/8
MS6-FRM-3/8-...-A8				G3/8	
MS6-FRM-1/2-...-A8				G1/2	
MS6-FRM-1/4-...-A4	31	78.5		G1/4	G1/4
MS6-FRM-3/8-...-A4				G3/8	
MS6-FRM-1/2-...-A4				G1/2	

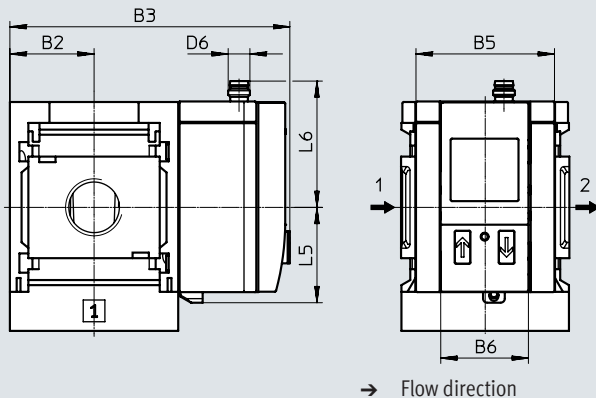
Datasheet

Dimensions – Pressure sensor

Download CAD data → www.festo.com

Datasheets → Internet: sde1

[AD1]/[AD2]/[AD3]/[AD4] Pressure sensor with LCD display



[AD1]:
SDE1-D10-G2-MS...-L-P1-M8 with
3-pin M8x1 plug, 1 switching output
PNP

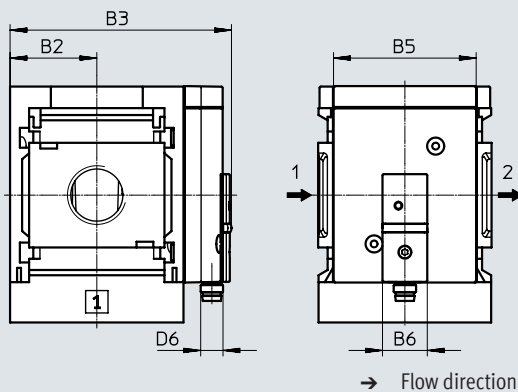
[AD3]:
SDE1-D10-G2-MS...-L-PI-M12 with
4-pin M12x1 plug, 1 switching out-
put PNP and 4 ... 20 mA analogue

[AD2]:
SDE1-D10-G2-MS...-L-N1-M8 with
3-pin M8x1 plug, 1 switching output
NPN

[AD4]:
SDE1-D10-G2-MS...-L-NI-M12 with
4-pin M12x1 plug, 1 switching out-
put NPN and 4 ... 20 mA analogue

[AD7]/[AD8]/[AD9]/[AD10] Pressure sensor with status indicator

Datasheets → Internet: sde5



[AD7]:
SDE5-D10-O-...-P-M8 with 3-pin
M8x1 plug, threshold value compar-
ator, 1 switching output PNP, N/O
contact

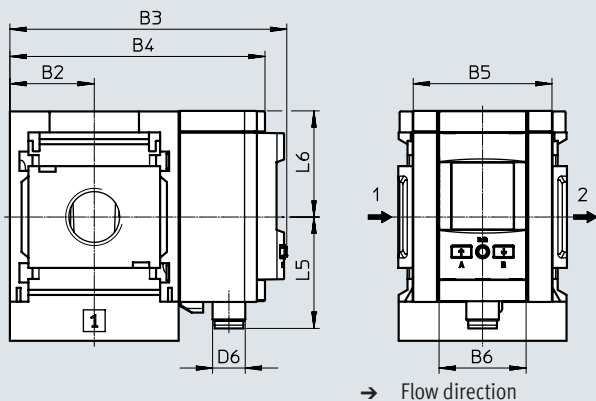
[AD9]:
SDE5-D10-O3-...-P-M8 with 3-pin
M8x1 plug, window comparator,
1 switching output PNP, N/O contact

[AD8]:
SDE5-D10-C-...-P-M8 with 3-pin
M8x1 plug, threshold value compar-
ator, 1 switching output PNP, N/C
contact

[AD10]:
SDE5-D10-C3-...-P-M8 with 3-pin
M8x1 plug, window comparator,
1 switching output PNP, N/C contact

[AD11]/[AD12] Pressure sensor with LCD display

Datasheets → Internet: spau



[AD11]:
SPAU-P10R-MS...-L-PNLK-M12D with
4-pin M12x1 plug, A-coded, switch-
ing output 2x PNP or 2x NPN switch-
able and 0 ... 10 V, 1 ... 5 V,
4 ... 20 mA analogue

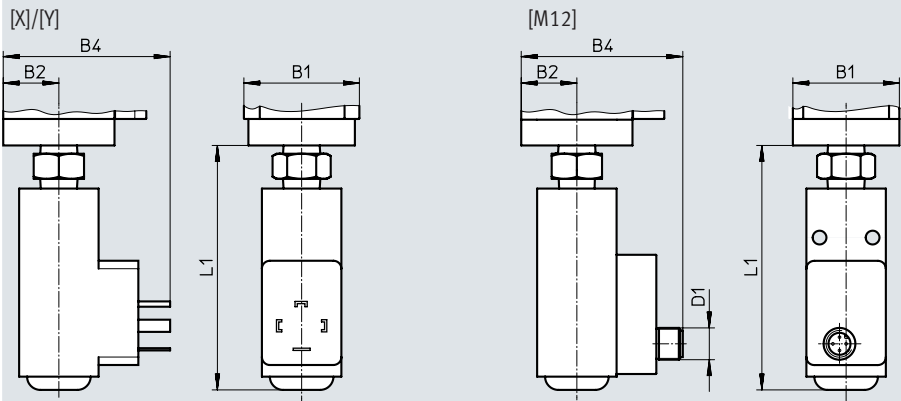
[AD12]:
SPAU-P10R-MS...-L-PNLK-M8D with
4-pin M8x1 plug, A-coded, switching
output 2x PNP or 2x NPN switchable
and 0 ... 10 V, 1 ... 5 V, 4 ... 20 mA
analogue

Type	B2	B3	B4	B5	B6	D6	L5	L6
MS4-...-AD1/AD2	21	82.6	–	32	32.3	M8x1	35.1	46.7
MS4-...-AD3/AD4						M12x1		55.8
MS4-...-AD7/AD8/AD9/AD10	21	59.1	–	~32	16	M8x1	–	–
MS4-...-AD11	21	81.2	73.3	32	32	M12x1	41.2	39
MS4-...-AD12						M8x1	37.9	
MS6-...-AD1/AD2	31	103	–	51	32.3	M8x1	35.1	46.7
MS6-...-AD3/AD4						M12x1		55.8
MS6-...-AD7/AD8/AD9/AD10	31	79.1	–	~51	16	M8x1	–	–
MS6-...-AD11	31	101.8	93.7	51	32	M12x1	41.2	39
MS6-...-AD12						M8x1	37.9	

Datasheet

Dimensions – Pressure switch

[X]/[Y]/[M12] Pressure switch with adjustable pressure switching point



Download CAD data → www.festo.com

Datasheets → Internet: pev-1/4

[X]:
PEV-1/4-SC-0D with display, plug,
square design to EN 175 301, type A

[Y]:
PEV-1/4-B-0D, plug, square design to
EN 175 301, type A

[M12]:
PEV-1/4-B-M12 with 4-pin plug
M12x1

Type	B1	B2	B4	D1	L1
MS4-FRM-...-X/Y	40	21	63	–	91.8
MS4-FRM-...-M12	40	21	61	M12x1	91.8
MS6-FRM-...-X/Y	62	31	73	–	99
MS6-FRM-...-M12	62	31	71	M12x1	99

Datasheet

★ Core Range

Ordering data					
Size	Port 1, 2	Port 3, 4	Flow direction	Part no.	Type
MS6	G1/4	G thread	From left to right	★ 529857	MS6-FRM-1/4
	G1/2	G thread	From left to right	★ 529853	MS6-FRM-1/2
Ordering data					
Size	Port 1, 2	Port 3, 4	Flow direction	Part no.	Type
MS4	G1/8	G thread	From left to right	529559	MS4-FRM-1/8
	G1/4	G thread	From left to right	529555	MS4-FRM-1/4
			From right to left	529558	MS4-FRM-1/4-Z
MS6	G3/8	G thread	From left to right	529861	MS6-FRM-3/8
	G1/2	G thread	From right to left	529856	MS6-FRM-1/2-Z
With integrated non-return function					
MS4	G1/4	G thread	From left to right	536966	MS4-FRM-1/4-I
			From right to left	536971	MS4-FRM-1/4-I-Z
MS6	G1/4	G thread	From left to right	536967	MS6-FRM-1/4-I
	G1/2	G thread	From left to right	536969	MS6-FRM-1/2-I
With pressure switch PEV-1/4-B-0D					
MS4	G1/4	G thread	From left to right	529556	MS4-FRM-1/4-Y
			From right to left	529557	MS4-FRM-1/4-Y-Z
MS6	G1/4	G thread	From left to right	529858	MS6-FRM-1/4-Y
	G3/8	G thread	From left to right	529862	MS6-FRM-3/8-Y
	G1/2	G thread	From left to right	529854	MS6-FRM-1/2-Y
			From right to left	529855	MS6-FRM-1/2-Y-Z

Ordering data – Modular product system

Ordering table					
Grid dimension	[mm]	40	62	Conditions	Code
Module no.		527703	527676		
Series	Standard				MS
Size	4	6			...
Function	Branching module				-FRM
Pneumatic connection	Female thread G1/8	–	[1]		-1/8
	Female thread G1/4	Female thread G1/4	[1]		-1/4
	–	Female thread G3/8	[1]		-3/8
	–	Female thread G1/2	[1]		-1/2
	Connecting plate G1/8	–			-AGA
	Connecting plate G1/4	Connecting plate G1/4			-AGB
	Connecting plate G3/8	Connecting plate G3/8			-AGC
	–	Connecting plate G1/2			-AGD
	–	Connecting plate G3/4			-AGE
Additional function	None				
	With integrated non-return function				-I
Pressure gauge/adapter	None				
	MS pressure gauge, bar				-AG
	Adapter for EN pressure gauge 1/8, without pressure gauge				-A8
	Adapter for EN pressure gauge 1/4, without pressure gauge				-A4
	Integrated pressure gauge, red/green scale				-RG
	Pressure sensor with LCD display, plug M8, 1 switching output PNP, 3-pin		[1] [2]		-AD1
	Pressure sensor with LCD display, plug M8, 1 switching output NPN, 3-pin		[1] [2]		-AD2
	Pressure sensor with LCD display, plug M12, 1 switching output PNP, 4-pin, analogue output 4 ... 20 mA		[1] [2]		-AD3
	Pressure sensor with LCD display, plug M12, 1 switching output NPN, 4-pin, analogue output 4 ... 20 mA		[1] [2]		-AD4
	Pressure sensor with status indicator, plug M8, threshold value comparator, PNP, N/O contact		[1] [2]		-AD7
	Pressure sensor with status indicator, plug M8, threshold value comparator, PNP, N/C contact		[1] [2]		-AD8
	Pressure sensor with status indicator, plug M8, window comparator, PNP, N/O contact		[1] [2]		-AD9
	Pressure sensor with status indicator, plug M8, window comparator, PNP, N/C contact		[1] [2]		-AD10
	Pressure sensor with LCD display, plug M12, 4-pin, IO-Link®, PNP, NPN, 0... 10 V, 1 ... 5 V, 4 ... 20 mA		[1] [2]		-AD11
	Pressure sensor with LCD display, plug M8, 4-pin, IO-Link®, PNP, NPN, 0... 10 V, 1 ... 5 V, 4 ... 20 mA		[1] [2]		-AD12
Alternative pressure gauge scale	None				
	psi		[3]		-PSI
	MPa		[4]		-MPA

[1] 1/8, 1/4, 3/8, Not with EU EX4 certification.

1/2, AD1 ... AD4,
AD7 ... AD12, X, Y,
M12, WPM

[2] AD1 ... AD4, Measuring range max. 10 bar.
AD7 ... AD12

[3] PSI Only in combination with pressure gauge AG.

[4] MPA Only in combination with pressure gauge AG or RG.

Ordering data – Modular product system

Ordering table					
Grid dimension	[mm]	40	62	Conditions	Code
Pressure switch	Without pressure switch				
	Pressure switch PEV with display, plug socket, EN 175301, type A, cube			[1] [5]	-X
	Pressure switch PEV without display, plug socket, EN 175301, type A, cube			[1] [5]	-Y
	Pressure switch PEV without display, plug socket, round, M12, 4-pin			[1] [5]	-M12
Type of mounting	Without mounting bracket				
	Mounting bracket standard design			[6]	-WP
	Mounting bracket for hooking in service unit components			[1] [6]	-WPM
	Mounting bracket centrally at rear (wall mounting top and bottom), connecting plates not required				-WB
	Mounting bracket centrally at rear (wall mounting top), connecting plates not required				-WBM
EU certification	None				
	II 2GD to EU Explosion Protection Directive (ATEX)				-EX4
UL certification	None				
	cULus, ordinary location for Canada and USA				-UL1
Flow direction	Flow direction from left to right				
	Flow direction from right to left				-Z

[1] 1/8, 1/4, 3/8, Not with EU EX4 certification.

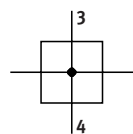
1/2, AD1 ... AD4,
AD7 ... AD12, X, Y,
M12, WPM

[5] X, Y, M12 Max. permissible operating pressure P1 = 12 bar.

[6] WP, WPM Only with connecting plate AGA, AGB, AGC, AGD or AGE.

Datasheet

Function



- - Flow rate
2900 ... 14600 l/min
- - Temperature range
-10 ... +60°C
- - Operating pressure
0 ... 20 bar



- - **Note**

The distributor block MS4/6-FRM-FRZ has half the normal grid dimension.

- Compressed air distributors with 4 connections
- Outlet at top and bottom
- Can be used as an intermediate distributor for varying air qualities
- Can be used as an adapter for size MS4 between two pressure regulators with pressure gauge with large rotary knob

General technical data

Size	MS4	MS6
Pneumatic connection 3, 4	G1/4	G1/2
Design	Branching module	
Type of mounting	Via accessories In-line installation	
Mounting position	Any	

- - Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate $q_{nN}^{1)}$ [l/min]

Size	MS4	MS6
In main flow direction 1 → 2	4050	14600
Outlet at the top	3250	10400
Outlet underneath	2900	9850

1) Measured at $p_1 = 6$ bar and $p_2 = 5$ bar, $\Delta p = 1$ bar

Operating and environmental conditions

Size	MS4	MS6
Operating pressure [bar]	0 ... 14 (0 ... 10) ¹⁾	0 ... 20 (0 ... 10) ¹⁾
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4] Inert gases	
Note on the operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Ambient temperature [°C]	-10 ... +60	
Temperature of medium [°C]	-10 ... +60	
Storage temperature [°C]	-10 ... +60	
Corrosion resistance class CRC ²⁾	2	
UL certification ³⁾	c UL us - Recognized (OL)	

1) Value in brackets applies to installation in a service unit MS4/MS6 with UL certification.

2) More information www.festo.com/x/topic/crc

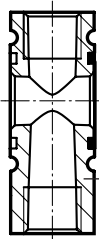
3) More information: www.festo.com/catalogue/ms-frm → Support/Downloads.

Datasheet

Weight [g]		
Size	MS4	MS6
Distributor block	60	163

Materials

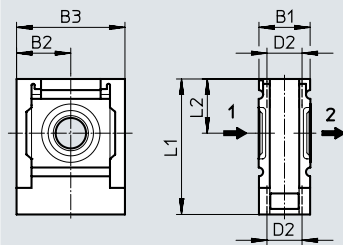
Sectional view



Distributor block	
[1] Housing	Die-cast aluminium
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions

Download CAD data → www.festo.com



Type	B1	B2	B3	D2	L1	L2
MS4-FRM-FRZ	20	21	42	G1/4	52.5	21
MS6-FRM-FRZ	31	31	62	G1/2	76.5	31

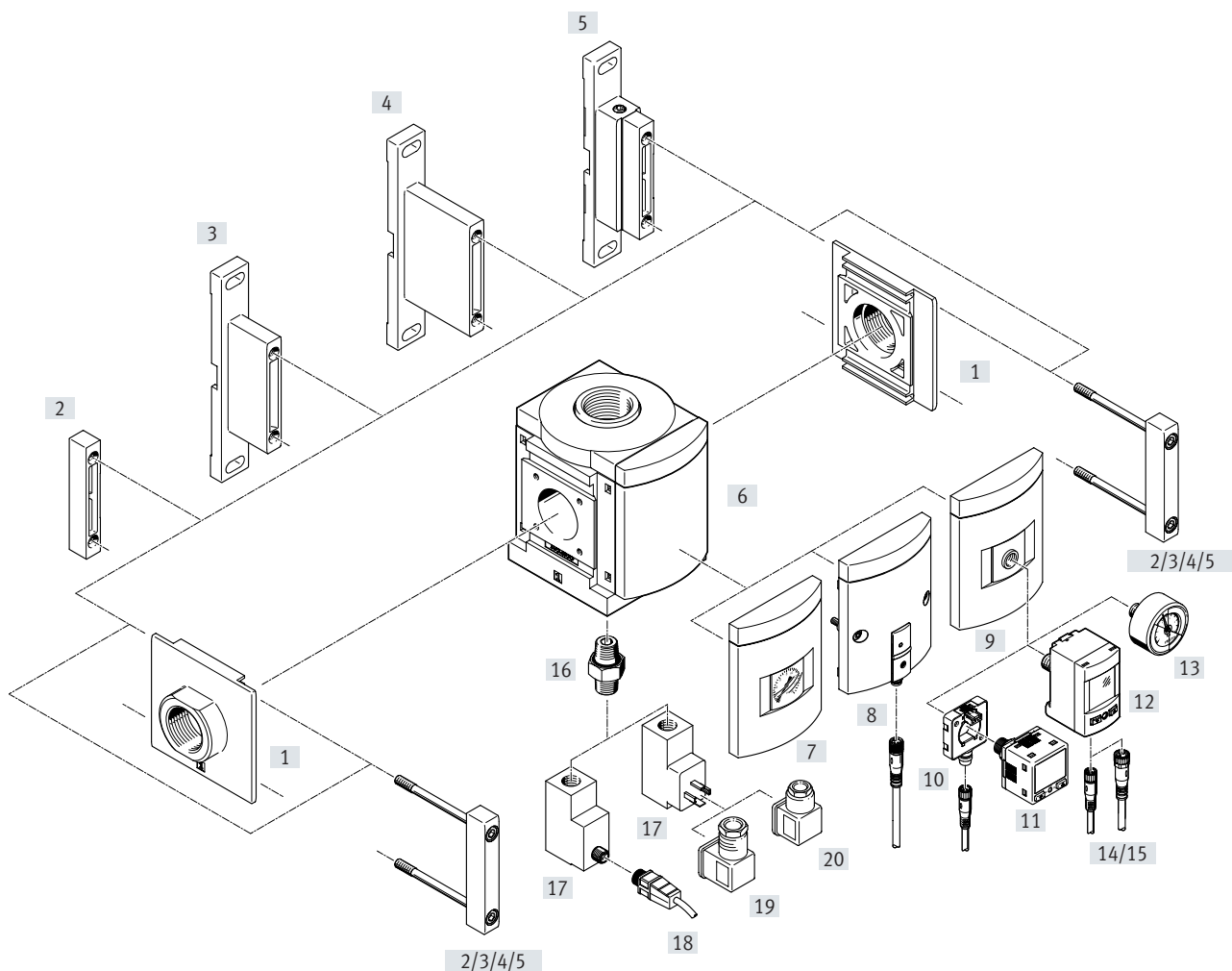
⚠ Note: This product conforms to ISO 1179-1 and ISO 228-1.

★ Core Range

Ordering data

Size	Port 1, 2	Port 3, 4	Flow direction	Part no.	Type
MS4	Without connecting thread	G thread	—	★ 549336	MS4-FRM-FRZ
MS6	Without connecting thread	G thread	—	★ 549337	MS6-FRM-FRZ

Peripherals overview



- - Note

Additional accessories:

- Module connector for combination with size MS6, MS9 or MS12
→ Internet: rmv, armv

Peripherals overview

Mounting attachments and accessories		Order code	→ Page/Internet
Can be ordered via the modular product system			
[1]	Connecting plate SET ¹⁾	[AG...]	30
	Connecting plate SET ¹⁾	[AQ...]	
[3]	Mounting bracket	[WP]	
[4]	Mounting bracket	[WPB]	
[5]	Mounting bracket	[WPM]	
[6]	Cover plate	[VS]	
[7]	MS pressure gauge	[AG]/[RG]	
[8]	Pressure sensor SDE5 with status indicator	[AD7]/[AD8]/[AD9]/[AD10]	
[9]	Adapter for EN pressure gauge 1/8, 1/4	[A8]/[A4]	
[17]	Pressure switch PEV ²⁾	[X]/[Y]/[M12]	
Can be ordered as accessories			
[1]	Connecting plate SET	MS9-AG...	ms9-ag
	Connecting plate SET	MS9-AQ...	ms9-aq
[2]	Module connector	MS9-MV	ms9-mv
[3]	Mounting bracket	MS9-WP	ms9-wp
[4]	Mounting bracket	MS9-WPB	ms9-wp
[5]	Mounting bracket	MS9-WPM	ms9-wp
[10]	Electrical adapter	SASC	36
[11]	Pressure sensor	SPAN	36
[12]	Pressure sensor	SPAU-...T	36
[13]	Pressure gauge	MA	36
[14]	Connecting cable	NEBU-M8....-LE3	37
[15]	Connecting cable	NEBU-M8....-LE4/NEBU-M12....-LE4	37
[18]	Connecting cable	NEBU-M12....-LE4	37
[19]	Angled plug socket	PEV-1/4-WD-LED-...	37
[20]	Plug socket	MSSD-C-4P	37

1) Module connector [2] is included in the scope of delivery.

2) Double nipple [16] is included in the scope of delivery.

Type codes

001	Series	
MS	MS series	

002	Size	
9	Grid dimension 90 mm	

003	Function	
FRM	Branching module	

004	Pneumatic connection	
3/4	Female thread G3/4	
1	Female thread G1	
AGD	Sub-base G1/2	
AGE	Sub-base G3/4	
AGF	Sub-base G1	
AGG	Sub-base G1 1/4	
AGH	Sub-base G1 1/2	
N3/4	3/4 NPT	
N1	1 NPT	
AQR	Sub-base 1/2 NPT	
AQS	Sub-base 3/4 NPT	
AQT	Sub-base 1 NPT	
AQU	Sub-base 1 1/4 NPT	
AQV	Sub-base 1 1/2 NPT	
G	Module without connecting thread, without sub-base	
NG	Module without connecting thread, without sub-base (inch)	

005	Pressure gauge alternatives	
AG	MS pressure gauge	
VS	Cover plate	
A8	Adapter for EN pressure gauge 1/8, without pressure gauge	
A4	Adapter for EN pressure gauge 1/4, without pressure gauge	
RG	Integrated pressure gauge, red/green scale	
AD7	Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/O	
AD8	Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/C	
AD9	Pressure sensor with switching display, M8 plug, window comparator, PNP, N/O	
AD10	Pressure sensor with operational status indicator, M8 plug, window comparator, PNP, N/C	

006	Alternative pressure gauge scale	
	MS pressure gauge	
PSI	psi	
MPA	MPa	
BAR	bar	

007	Pressure switch	
	None	
X	Pressure switch PEV with display, plug socket, EN 175301, type A, cube	
Y	Pressure switch PEV without display, plug socket, EN 175301, type A, cube	
M12	Pressure switch PEV without display, plug socket, round, M12, 4-pin	

008	Type of mounting	
	Without mounting bracket	
WP	Mounting bracket basic design	
WPM	Mounting bracket for hooking in service unit components	
WPB	Mounting bracket for large wall gap	

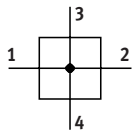
009	EU certification	
	None	
EX4	II 2GD	

010	UL certification	
	None	
UL1	cULus ordinary location for Canada and USA	

011	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

Function



-  - Flow rate
10000 ... 50000 l/min
-  - Temperature range
-10 ... +60°C
-  - Operating pressure
0 ... 20 bar
-  - www.festo.com



- Compressed air distributors with 4 connections
- Support for auxiliary modules
- Outlet at top and bottom
- Can be used as an intermediate distributor for varying air qualities
- Optional device variant EX4 for use in potentially explosive areas in zones 1, 2, 21 and 22
- Optional pressure sensor

General technical data

Pneumatic connection 1, 2		
Female thread		G3/4, G1, 3/4 NPT or 1 NPT
Connecting plate	[AG...]	G1/2, G3/4, G1, G1 1/4 or G1 1/2
	[AQ...]	1/2 NPT, 3/4 NPT, 1 NPT, 1 1/4 NPT or 1 1/2 NPT
Module without connecting thread/connecting plate	[G]/[NG]	–
Pneumatic connection 3, 4		
Pneumatic connection 1, 2	[3/4]/[1]/[AG...]/[G]	G1
	[N3/4]/[N1]/[AQ...]/[NG]	1 NPT
Design		Branching module
Type of mounting		Via accessories
		In-line installation
		Front panel mounting
Mounting position		Any ¹⁾
Pressure indication		Via pressure sensor for indicating the output pressure via status indicator and electrical output
		Via pressure gauge for displaying the output pressure
		Via pressure gauge with red/green scale for indicating the output pressure
		Prepared for G1/8
		Prepared for G1/4

1) The branching module must be mounted vertically when combined with a pressure sensor as condensate must not collect in the pressure sensor.

• Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate $q_{nN}^{1)}$ [l/min]

Pneumatic connection 1, 2	G1/2, 1/2 NPT	G3/4, 3/4 NPT	G1, 1 NPT	G1 1/4, 1 1/4 NPT	G1 1/2, 1 1/2 NPT
In main flow direction 1 → 2	10000	25000	45000	47000	50000
Outlet at the top	13000				
Outlet underneath	13000				

1) Measured at $p_1 = 6$ bar and $p_2 = 5$ bar, $\Delta p = 1$ bar.

Electrical data¹⁾

Operating voltage range AC	[V]	0 ... 250
Operating voltage range DC	[V]	0 ... 125

1) Only in combination with pressure switch

Datasheet

Operating and environmental conditions			
	Without pressure switch/pressure sensor	Pressure switch	Pressure sensor
Operating pressure [bar]	0 ... 20	0 ... 12	0 ... 10
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]		
Note on the operating/pilot medium	Lubricated operation possible		
Ambient temperature [°C]	-10 ... +60	-10 ... +60	0 ... +50
Temperature of medium [°C]	-10 ... +60	-10 ... +60	0 ... +50
Storage temperature [°C]	-10 ... +60	-10 ... +60	-10 ... +60
Corrosion resistance class CRC ¹⁾	2		
UL certification ²⁾	c UL us - Recognized (OL)		

1) More information www.festo.com/x/topic/crc2) More information: www.festo.com/catalogue/ms-frm → Support/Downloads.

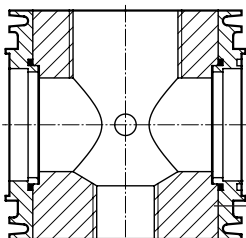
ATEX	
EU certification	[EX4]
ATEX category for gas	II 2G
Type of (ignition) protection for gas	Ex h IIC T6 Gb X
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex h IIIC T60°C Db X
Explosion ambient temperature	-10°C ≤ Ta ≤ +60°C
CE marking (see declaration of conformity) ¹⁾	To EU Explosion Protection Directive (ATEX)

1) More information: www.festo.com/catalogue/ms-frm → Support/Downloads.

Weight [g]	
Branching module	1000
Branching module with pressure switch	1100

Materials

Sectional view



Branching module		
[1]	Housing	Die-cast aluminium
–	Covering	Reinforced PA
–	Connecting plate, module connector, mounting bracket	Die-cast aluminium
Note on materials		RoHS-compliant
LABS (PWIS) conformity		VDMA24364-B1/B2-L

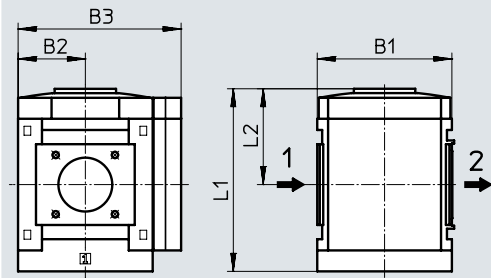
Datasheet

Dimensions – Basic version

Download CAD data → www.festo.com

[G]/[NG] Module without connecting thread, without connecting plate

[VS] Cover plate



→ Flow direction

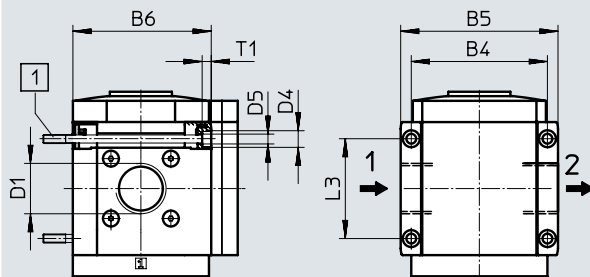
Type	B1	B2	B3	L1	L2
MS9-FRM-G/NG-VS	90	45	109	122	64

Dimensions – Female thread/connecting plate

Download CAD data → www.festo.com

[3/4]/[1]/[N3/4]/[N1] Female thread

[AG...]/[AQ...] Connecting plate



[1] Retaining screw M6xmin. 90 to DIN 912 (not included in the scope of delivery) for wall mounting without mounting bracket

[3] Earthing screw M4x8 (only with MS9-...-EX4)

→ Flow direction

Type	B4	B5	B6	B7		B8	D1	D4	D5	L3	L4	T1	≅
				[EX4]							[EX4]		
MS9-FRM-3/4	90	104	91.5	-	-	-	G3/4	11	6.5	66	-	6	-
MS9-FRM-1						-	G1						
MS9-FRM-AGD	-	-	-	112	122	132	G1/2	-	-	-	35	-	30
MS9-FRM-AGE						132	G3/4						36
MS9-FRM-AGF						142	G1						41
MS9-FRM-AGG						162	G1 1/4						50
MS9-FRM-AGH						176	G1 1/2						55
MS9-FRM-N3/4	90	104	91.5	-	-	-	3/4 NPT	11	6.5	66	-	6	-
MS9-FRM-N1						-	1 NPT						
MS9-FRM-AQR	-	-	-	112	-	132	1/2 NPT	-	-	-	-	-	30
MS9-FRM-AQS						132	3/4 NPT						36
MS9-FRM-AQT						142	1 NPT						41
MS9-FRM-AQU						162	1 1/4 NPT						50
MS9-FRM-AQV						176	1 1/2 NPT						55

Note: This product conforms to ISO 1179-1 and ISO 228-1.

Datasheet

Dimensions – Pressure gauges/adapters

Download CAD data → www.festo.com

[AG] Integrated MS pressure gauge with standard scale

[RG] Integrated MS pressure gauge with red/green scale

B3

B2

1

2

B9

B2

1

2

D2

→ Flow direction

→ Flow direction

Type	B2	B3	B9	D2
MS9-FRM-...AG/RG	45	109	–	–
MS9-FRM-...A8		–	110	G1/8
MS9-FRM-...A4				G1/4

Dimensions – Pressure sensor

Download CAD data → www.festo.com

Datasheets → Internet: sde5

[AD7]/[AD8]/[AD9]/[AD10] Pressure sensor with status indicator

B11

B2

1

2

D3

→ Flow direction

[AD7]:
SDE5-D10-O-...-P-M8 with 3-pin
M8x1 plug, threshold value compar-
ator, 1 switching output PNP, N/O
contact

[AD8]:
SDE5-D10-C-...-P-M8 with 3-pin
M8x1 plug, threshold value compar-
ator, 1 switching output PNP, N/C
contact

[AD9]:
SDE5-D10-O3-...-P-M8 with 3-pin
M8x1 plug, window comparator,
1 switching output PNP, N/O contact

[AD10]:
SDE5-D10-C3-...-P-M8 with 3-pin
M8x1 plug, window comparator,
1 switching output PNP, N/C contact

Type	B2	B11	D3
MS9-FRM-...AD7/AD8/AD9/AD10	45	112	M8

28

→Internet: www.festo.com/catalogue/...

Subject to change – 2023/05

Datasheet

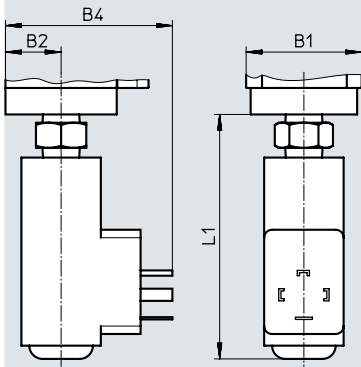
Dimensions – Pressure switch

Download CAD data → www.festo.com

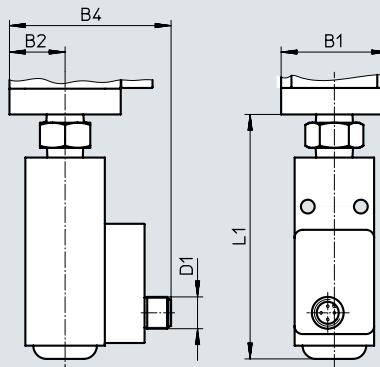
Datasheets → Internet: pev-1/4

[X]/[Y]/[M12] Pressure switch with adjustable pressure switching point

[X]/[Y]



[M12]



[X]:

PEV-1/4-SC-0D with display, plug, square design to EN 175 301, type A

[Y]:

PEV-1/4-B-0D, plug, square design to EN 175 301, type A

[M12]:

PEV-1/4-B-M12 with 4-pin plug M12x1

Type	B1	B2	B4	D1	L1
MS9-FRM-...-X/Y	90	45	87	–	105
MS9-FRM-...-M12	90	45	85	M12x1	105

Ordering data

Cover plate

Size	Port 1, 2	Port 3, 4	Flow direction	Part no.	Type
MS9	Without connecting thread	G thread	From left to right	564145	MS9-FRM-G-VS
		NPT thread	From left to right	564148	MS9-FRM-NG-VS
With pressure switch PEV-1/4-B-0D					
MS9	Without connecting thread	G thread	From left to right	564147	MS9-FRM-G-VS-Y
		NPT thread	From left to right	564150	MS9-FRM-NG-VS-Y

Ordering data – Modular product system

Ordering table		Grid dimension	[mm]	90	Conditions	Code	Enter code
Module no.	562534						
Series	Standard					MS	MS
Size	9					9	9
Function	Branching module					-FRM	-FRM
Pneumatic connection	Female thread G3/4	[1]				-3/4	
	Female thread G1	[1]				-1	
	Connecting plate G1/2					-AGD	
	Connecting plate G3/4					-AGE	
	Connecting plate G1					-AGF	
	Connecting plate G1 1/4					-AGG	
	Connecting plate G1 1/2					-AGH	
	Female thread 3/4 NPT	[1]				-N3/4	
	Female thread 1 NPT	[1]				-N1	
	Connecting plate 1/2 NPT	[1]				-AQR	
	Connecting plate 3/4 NPT	[1]				-AQS	
	Connecting plate 1 NPT	[1]				-AQT	
	Connecting plate 1 1/4 NPT	[1]				-AQU	
	Connecting plate 1 1/2 NPT	[1]				-AQUV	
	Module without connecting thread, without connecting plate	[1]				-G	
	Module without connecting thread, without connecting plate (pneumatic connections 3 and 4 in NPT)	[1]				-NG	
Pressure gauge/adapter	MS pressure gauge					-AG	
	Cover plate					-VS	
	Adapter for EN pressure gauge 1/8, without pressure gauge					-A8	
	Adapter for EN pressure gauge 1/4, without pressure gauge					-A4	
	Integrated pressure gauge, red/green scale	[2]				-RG	
	Pressure sensor with status indicator, plug M8, threshold value comparator, PNP, N/O contact	[1] [3]				-AD7	
	Pressure sensor with status indicator, plug M8, threshold value comparator, PNP, N/C contact	[1] [3]				-AD8	
	Pressure sensor with status indicator, plug M8, window comparator, PNP, N/O contact	[1] [3]				-AD9	
Alternative pressure gauge scale	Pressure sensor with status indicator, plug M8, window comparator, PNP, N/C contact	[1] [3]				-AD10	
	None	[4]					
	psi	[5]				-PSI	
	MPa	[5]				-MPA	
Pressure switch	bar	[5]				-BAR	
	Without pressure switch						
	Pressure switch PEV with display, plug socket, EN 175301, type A, cube	[1] [6]				-X	
	Pressure switch PEV without display, plug socket, EN 175301, type A, cube	[1] [6]				-Y	
Type of mounting	Pressure switch PEV without display, plug socket, round, M12, 4-pin	[1] [6]				-M12	
	Without mounting bracket						
	Mounting bracket standard design	[7]				-WP	
	Mounting bracket for hooking in service unit components	[1] [7]				-WPM	
EU certification	Mounting bracket for large wall gap	[7]				-WPB	
	None						
UL certification	II 2GD to EU Explosion Protection Directive (ATEX)					-EX4	
	None						
Flow direction	cULus, ordinary location for Canada and USA					-UL1	
	Flow direction from left to right						
	Flow direction from right to left					-Z	

[1] 3/4, 1, N3/4, N1, Not with EU EX4 certification.

AQR, AQS, AQT,

AQU, AQUV, G, NG,

AD7 ... AD10, X, Y,

M12, WPM

[2] RG Not with alternative pressure gauge scale PSI, PSI scale is only used as an auxiliary scale.

[3] AD7 ... AD10 Measuring range max. 10 bar.

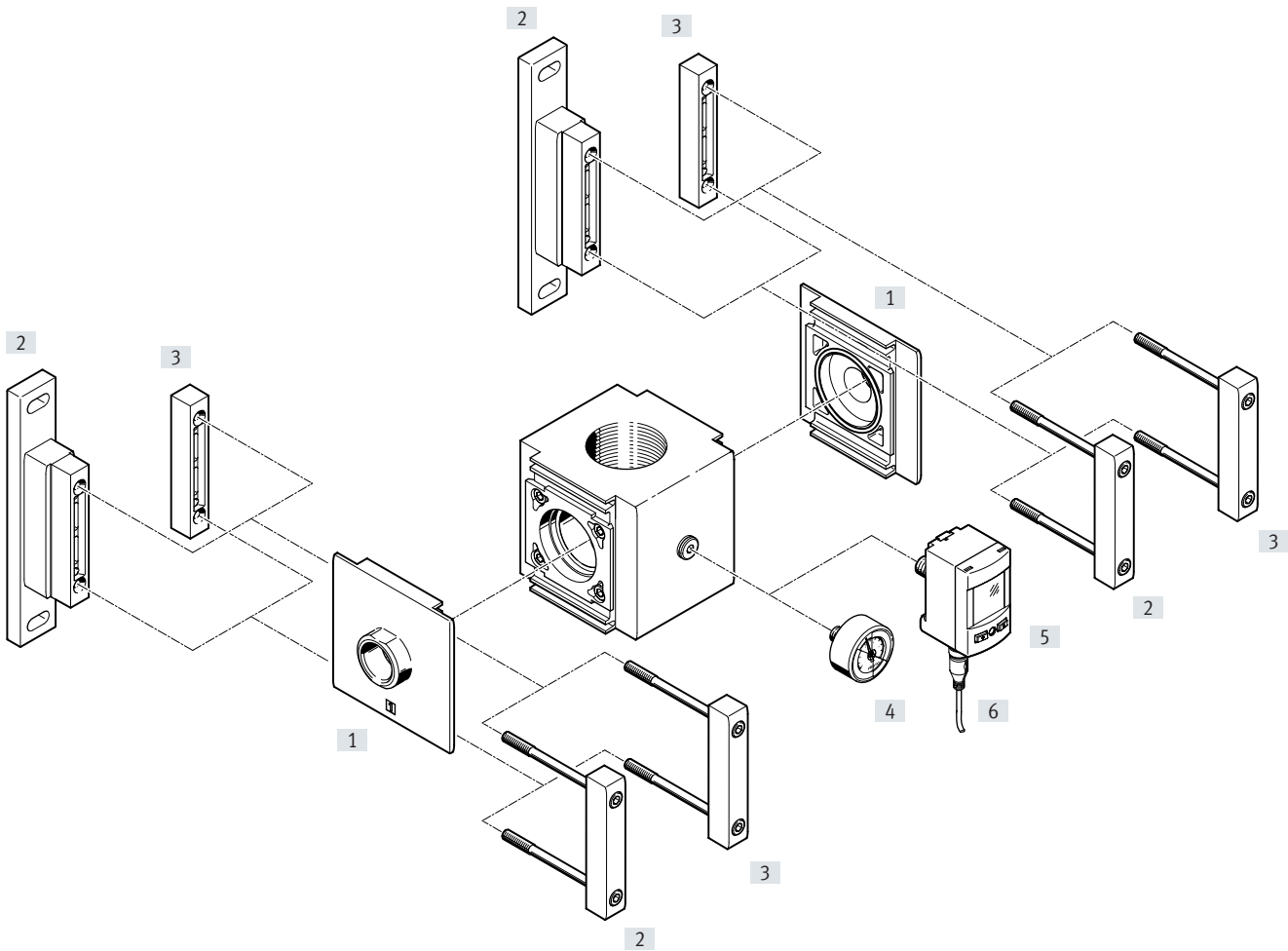
[4] – Not with pressure gauge AG, RG.

[5] PSI, MPA, BAR Not with adapter VS, A8, A4, AD7, AD8, AD9, AD10.

[6] X, Y, M12 Max. permissible operating pressure P1 = 12 bar.

[7] WP, WPM, WPB Not with pneumatic connection G, NG.

Peripherals overview





Note

Additional accessories:

- Module connector for combination with size MS9

→ Internet: armv

Mounting attachments and accessories		Order code	→ Page/Internet
Can be ordered via the modular product system			
[1]	Connecting plate SET ¹⁾	[AG...]	35
[2]	Mounting bracket	[WP]	
Can be ordered as accessories			
[1]	Connecting plate SET	MS12-AG...	ms12-ag
[2]	Mounting bracket	MS12-WP	ms12-wp
[3]	Module connector	MS12-MV	ms12-mv
[4]	Pressure gauge	MA-...-G1/4, MA-...-R1/4	36
[5]	Pressure sensor	SPAU-...-T-R14M	36
[6]	Connecting cable	NEBU-M8...-LE4, NEBU-M12...-LE4	37

1) Module connector [3] is included in the scope of delivery.

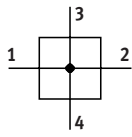
Type codes

001	Series	
MS	MS series	
002	Size	
12	Grid dimension 124 mm	
003	Function	
FRM	Branching module	

004	Pneumatic connection	
AGF	Sub-base G1	
AGG	Sub-base G1 1/4	
AGH	Sub-base G1 1/2	
AGI	Sub-base G2	
G	Module without connecting thread, without sub-base	
005	Type of mounting	
	Without mounting bracket	
WP	Mounting bracket basic design	

Datasheet

Function



-  - Flow rate
25000 ... 42000 l/min
-  - Temperature range
-10 ... +60°C
-  - Operating pressure
0 ... 20 bar
-  - www.festo.com



- Compressed air distributors with 4 connections
- Support for auxiliary modules
- Outlet at top and bottom
- Can be used as an intermediate distributor for varying air qualities

General technical data

Pneumatic connection 1, 2	
Connecting plate [AG...]	G1, G1 1/4, G1 1/2 or G2
Module without connecting thread/connecting plate [G]	–
Pneumatic connection 3	G2
Pneumatic connection 4	G1
Design	Branching module
Type of mounting	Via accessories
	In-line installation
Mounting position	Any

† Note: This product conforms to ISO 1179-1 and ISO 228-1.

Standard nominal flow rate $q_{nN}^{1)}$ [l/min]

In main flow direction 1 → 2	25000 ... 42000
------------------------------	-----------------

1) Dependent on the connecting plate selected. Must be ordered separately as an accessory → Internet: ms12-ag
Measured at $p_1 = 6$ bar and $p_2 = 5$ bar, $\Delta p = 1$ bar.

Operating and environmental conditions

Operating pressure [bar]	0 ... 20
Operating medium	Compressed air to ISO 8573-1:2010 [–:–:–]
Ambient temperature [°C]	–10 ... +60
Temperature of medium [°C]	–10 ... +60
Storage temperature [°C]	–10 ... +60
Corrosion resistance class CRC ¹⁾	2

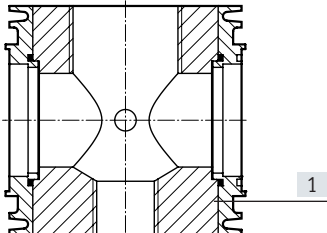
1) More information www.festo.com/x/topic/crc

Datasheet

Weight [g]	
Branching module	3000

Materials

Sectional view

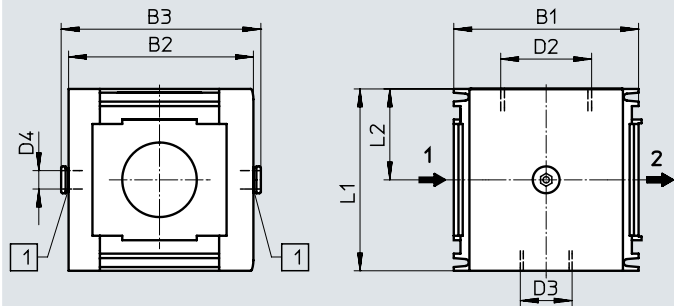


Branching module		
[1]	Housing	Die-cast aluminium
-	Seals	NBR
-	Connecting plate, module connector, mounting bracket	Die-cast aluminium
	LABS (PWIS) conformity	VDMA24364-B1/B2-L

Dimensions – Basic version

Download CAD data → www.festo.com

[G] Module without connecting thread, without connecting plate



[1] Female thread G1/4 in housing, sealed with plug screw as standard

→ Flow direction

Type	B1	B2	B3	D2	D3	D4	L1	L2
MS12-FRM-G	124	124	134	G2	G1	G1/4	122	61

- † - Note: This product conforms to ISO 1179-1 and ISO 228-1.

Ordering data

Size	Port 1, 2	Port 3, 4	Flow direction	Part no.	Type
MS12	Without connecting thread	G thread	From left to right	541681	MS12-FRM-G

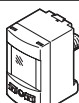
Ordering data – Modular product system

Ordering table				
Grid dimension	[mm]	124	Conditions	Code
Module no.	535035			
Series	Standard			MS
Size	12			12
Function	Branching module			-FRM
Pneumatic connection	Connecting plate G1			-AGF
	Connecting plate G1 1/4			-AGG
	Connecting plate G1 1/2			-AGH
	Connecting plate G2			-AGI
	Module without connecting thread, without connecting plate			-G
Type of mounting	Without mounting bracket			
	Mounting bracket standard design		[1]	-WP

[1] WP Only with connecting plate AGF, AGG, AGH or AGI.

Accessories

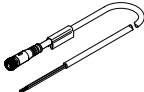
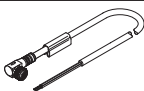
Ordering data – Pressure gauge MA						
	Nominal size	Pneumatic connection	Display range		Part no.	Type
			[bar]	[psi]		
	Pressure gauge MA, EN 837-1				Datasheets → Internet: ma	
	40	R1/4	0 ... 16	0 ... 232	187080	MA-40-16-R1/4-EN
		G1/4	0 ... 16	0 ... 232	183901	MA-40-16-G1/4-EN
	Pressure gauge MA, EN 837-1, with red/green range				Datasheets → Internet: ma	
	40	R1/8	0 ... 16	–	525726	MA-40-16-R1/8-E-RG
	50	R1/4	0 ... 16	–	525729	MA-50-16-R1/4-E-RG

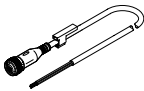
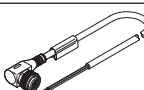
Ordering data – Pressure sensor SPAU							Datasheets → Internet: spau
	Pneumatic connection	Display type	Switching output	Electrical connection	Part no.	Type	
For direct mounting on the adapter with connecting thread 1/8 or 1/4, pressure measuring range 0 ... 10 bar, relative pressure measurement							
	Male thread R1/8	Illuminated LCD	2x PNP or 2x NPN switchable	M8x1, 4-pin	8001203	SPAU-P10R-T-R18M-L-PNLK-PNVBA-M8D	
	Male thread R1/4			M12x1, 4-pin	8001206	SPAU-P10R-T-R18M-L-PNLK-PNVBA-M12D	
				M8x1, 4-pin	8001209	SPAU-P10R-T-R14M-L-PNLK-PNVBA-M8D	
				M12x1, 4-pin	8001208	SPAU-P10R-T-R14M-L-PNLK-PNVBA-M12D	
Order code from modular product system [AD11]/[AD12]: for mounting on flange, pressure measuring range 0 ... 10 bar, relative pressure measurement							
	Flange MS4	Illuminated LCD	2x PNP or 2x NPN switchable	M8x1, 4-pin	8035302	SPAU-P10R-MS4-F-L-PNLK-PNVBA-M8D	
	Flange MS6			M12x1, 4-pin	8035304	SPAU-P10R-MS4-F-L-PNLK-PNVBA-M12D	
				M8x1, 4-pin	8035303	SPAU-P10R-MS6-F-L-PNLK-PNVBA-M8D	
				M12x1, 4-pin	8074906	SPAU-P10R-MS6-F-L-PNLK-PNVBA-M12D	

Ordering data – Electrical adapter SASC						
	Description			Electrical connection	Part no.	Type
	For pressure sensor SPAN			M8x1, 4-pin	8000326	SASC-P4-A-M8-A

Ordering data – Pressure sensor SPAN						Datasheets → Internet: span
	Pneumatic connection	Display type	Switching output	Analogue output	Part no.	Type
	Male thread G1/8	Illuminated LCD	2x PNP or 2x NPN switchable	–	★ 8035544	SPAN-P10R-G18M-PN-PN-L1
				0 ... 10 V, 0 ... 5 V, 4 ...20 mA	8035533	SPAN-P10R-G18M-PNLK-PNVBA-L1
	Male thread R1/8			–	★ 8035547	SPAN-P10R-R18M-PN-PN-L1
				0 ... 10 V, 0 ... 5 V, 4 ...20 mA	8035536	SPAN-P10R-R18M-PNLK-PNVBA-L1

Accessories

Ordering data – Connecting cable NEBU-M8						Datasheets → Internet: nebu
	Electrical connection	Number of wires	Cable length [m]	Part no.	Type	
	M8x1, straight socket	3	2.5	★ 541333	NEBU-M8G3-K-2.5-LE3	
			5	★ 541334	NEBU-M8G3-K-5-LE3	
		4	2.5	541342	NEBU-M8G4-K-2.5-LE4	
			5	541343	NEBU-M8G4-K-5-LE4	
	M8x1, angled socket	3	2.5	★ 541338	NEBU-M8W3-K-2.5-LE3	
			5	★ 541341	NEBU-M8W3-K-5-LE3	
		4	2.5	541344	NEBU-M8W4-K-2.5-LE4	
			5	541345	NEBU-M8W4-K-5-LE4	

Ordering data – Connecting cable NEBU-M12						Datasheets → Internet: nebu
	Electrical connection	Number of wires	Cable length [m]	Part no.	Type	
	M12x1, straight socket	3	2.5	★ 541363	NEBU-M12G5-K-2.5-LE3	
			5	★ 541364	NEBU-M12G5-K-5-LE3	
		4	2.5	★ 550326	NEBU-M12G5-K-2.5-LE4	
			5	★ 541328	NEBU-M12G5-K-5-LE4	
	M12x1, angled socket	3	2.5	541367	NEBU-M12W5-K-2.5-LE3	
			5	541370	NEBU-M12W5-K-5-LE3	
		4	2.5	550325	NEBU-M12W5-K-2.5-LE4	
			5	541329	NEBU-M12W5-K-5-LE4	

Ordering data – Angled plug socket PEV						Datasheets → Internet: pev-1/4
	Description	Operating voltage range	Electrical connection	Switching status indication	Part no.	Type
	For PEV-1/4-...-OD	15 30 V DC	4-pin	Yellow LED	164274	PEV-1/4-WD-LED-24
		≤ 230 V AC ≤ 180 V DC	4-pin	Yellow LED	164275	PEV-1/4-WD-LED-230

Ordering data – Plug socket MSSD						Datasheets → Internet: mssd-c-4p
	Description	Operating voltage range	Electrical connection	Type of mounting for cable connection	Part no.	Type
	For PEV-1/4-...-OD	≤ 250 V AC/DC	3-pin	Clamping screws	171157	MSSD-C-4P

Ordering data – Double nipple ESK						
	Description	Pneumatic connection		Part no.	Type	
	For subsequent mounting of pressure switch PEV on branching module MS-FRM	R1/4	R1/4	151521	ESK-1/4-1/4	
			R1/2	534153	ESK-1/4-1/2	

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