

MS Series Air Preparation Units

FESTO



The Most Advanced Air Preparation System

Best in size of product line, component functionality and range of services

With its MS series, Festo is offering a holistic concept for application-specific air preparation solutions. The new integrated functions for remote diagnosis and remote monitoring open up new dimensions for trouble-free operation of your pneumatic installations and maximum process security.

Maximum machine availability through controlled processes

Reliable compressed-air supply for installations made possible through the ultra-modern function modules of the Festo MS series with integrated sensors and remote-control facilities.

Time-saving Replacement

You can replace individual modules without dismantling the entire unit. Furthermore, the type WPM wall mounting bracket makes the installation even easier: simply affix the bracket to the wall, and then engage the assembled combination.

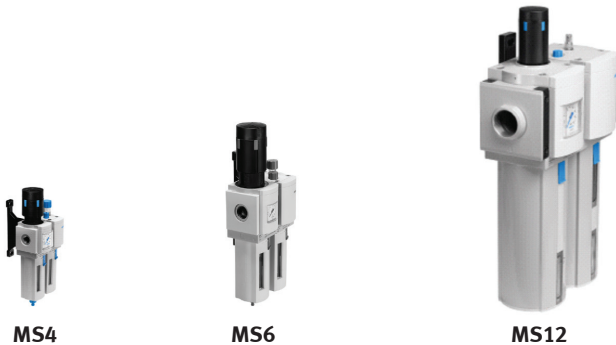
Solutions for every application

Everything from individual components through to preassembled combinations from stock, application-specific combinations and ready-to-install complete solutions. Optimum support in the form of CAD models and a easy-to-use product configurator.

Power that pays for itself

The high flow rates and compact dimensions of this series mean it is often possible to install one size smaller than comparable air preparation units. The MS12 offers flow rates of up to 42,000 l/min for some individual units. This ensures that there is no undersupply of air to actuators and even begins to match the performance of central compressed air preparation systems.

MS Series Air Preparation Units

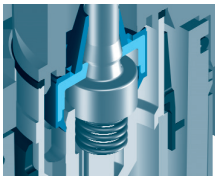


MS Series Air Preparation Units

Type	Code	Nominal flow rate (range) [l/min]		
		Size 4	Size 6	Size 12
Filter/regulator - lubricators	MSB-FRC	800 – 900	1,700 – 3,700	
Combined units	MSB	550 – 1,300	1,900 – 4,500	
Individual devices				
Filter/regulators	MS-LFR	850 – 1,700	2,200 – 6,200	11,000 – 17,000
Filters	MS-LF	1,000 – 1,700	2,000 – 4,100	11,500 – 16,000
Fine and micro filters	MS-LFM	120 – 180	120 – 850	5,000 – 7,600
Activated carbon filters	MS-LFX	250	700 – 1,200	4,800 – 6,000
Pressure regulators	MS-LR	1,000 – 2,100	2,400 – 7,500	13,000 – 22,000
	(for manifolds) MS-LRB	1,500 – 1,900	5,500 – 7,300	
Precision pressure regulators	MS-LRP		1,000 – 2,100	
	(for manifolds) MS-LRPB		1,600 – 5,000	
Electrical pressure regulators	MS-LRE		2,200 – 7,500	
Lubricators	LOE	1,100 – 2,200	2,200 – 7,200	20,000 – 22,000
On/off valves (manual/electrical)	MS-EM, MS-EE	1,000 – 2,000	2,600 – 7,000	25,000 – 32,000
Soft-start valves (air/electrical)	MS-DL, MS-DE	1,000 – 2,000	2,800 – 6,450	25,000 – 42,000
Membrane air dryers	MS-LDM1	50 – 120	200 – 470	
Distributor blocks	MS-FRM	1,300 – 3,500	3,300 – 13,000	25,000 – 42,000
Flow sensors	MS-SFE		200 – 5,000	

One Seal System

Avoids the “Monday-morning effect”¹⁾: patented Festo One Seal technology combines all sealing points into one integral unit. The unique seal solves the problems of back flow and system venting without the need for special components.



Rollflex Membrane

The new MS family of regulators with fiber-reinforced rolling membrane increases the flow rate and service life dramatically. As a result, pressure drops and regulation failures are reduced, allowing your pneumatic system to function more reliably.



Smartmount Connection System

Simply connect the high precision die-cast aluminum housings to each other in a series – there is no need for any intermediate blocks. To ensure that the manifold assembly is leak free, this tight connection only needs a single seal between the individual devices.



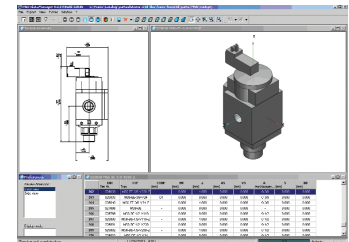
Type		MS4	MS6	MS12
Pneumatic connection	NPT	1/8, 1/4, 3/8	1/4, 3/8, 1/2, 3/4	1, 1 1/4, 1 1/2, 2
	BSP (G)	1/8, 1/4, 3/8	1/4, 3/8, 1/2, 3/4	1, 1 1/4, 1 1/2, 2
Nominal flow rate (range)	[Cv]	0.12 – 3.5 ¹⁾	0.12 – 13.0 ¹⁾	4.8 – 42.0 ²⁾
	[l/min]	120 – 3,500 ¹⁾	120 – 13,000 ¹⁾	4,800 – 42,000 ²⁾

¹⁾ Standard nominal flow rate; flow direction from inlet to outlet. Measured at p₁ = 10 bar and p₂ = 3 bar, Δp = 1 bar

²⁾ Measured at p₁ = 10 bar and p₂ = 6 bar, Δp = 0.5 bar

CAD Models

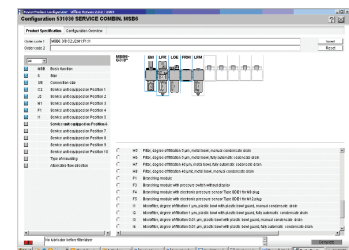
CAD models can be downloaded from www.festo.com/us/cad.



Typical CAD model screen

Configurator

A configurator for the convenient selection of application-specific individual devices and combinations (MSB4 and MSB6) is available when ordering online on the Festo electronic catalog.



Typical Configurator screen

Festo Corporation

For ordering assistance, or to find your nearest Festo Distributor,
Call: 1.800.99.FESTO
Fax: 1.800.96.FESTO
Email: customer.service@us.festo.com
Visit: www.festo.com/us/airprep/ms

For technical support,
Call: 1.866.GO.FESTO
Fax: 1.800.96.FESTO
Email: product.support@us.festo.com