

Pre-configured Combination Units MSB6 – Metric Series

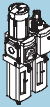






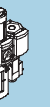


FESTO



Ten different types of pre-configured and assembled combination units are available. They consist of up to six different individual units with options for filtration grade and condensate drain (see table below). Mounting brackets are included. MS Series combination units have a high resistance to corrosion in typical industrial environments and offer high flow rates with compact components.

- Pneumatic connections: G $\frac{1}{4}$, G $\frac{3}{8}$, G $\frac{1}{2}$ (G $\frac{3}{4}$ with optional port plate)
- Flow rate: 1,900 ... 5,100 l/min*
- Supply pressure: 1.5 ... 20 bar*
- Pressure regulation range: 0.3 ... 12 bar*
- Filtration grade: 5 μ m and 40 μ m

* Individual combination units will vary depending on selected type and option.

Combination Units											
		MSB6-FRC	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
Consisting of:											
On-off valve (manually actuated)	EM1	–	■	–	■	■	–	■	■	■	–
Filter regulator with pressure gauge, lockable	LFR	■	■	■	■	■	■	■	■	■	–
Pressure regulator with pressure gauge, lockable	LR	–	–	–	–	–	–	–	–	–	■
Filter	LF	–	–	–	–	–	–	–	–	–	■
Lubricator	LOE	■	■	■	■	–	–	–	–	■	■
On-off valve (solenoid actuated)	EE	–	–	■	■	–	■	–	■	–	–
Soft-start valve (pneumatically actuated)	DL	–	–	■	■	–	■	–	■	–	–
Distribution block with pressure switch	FRM	–	■	–	■	–	–	■	■	–	–
Mounting bracket	WP	–	■	■	■	■	■	■	■	■	■
Technical data → Page		474	480	483	487	491	494	498	501	505	508

Note

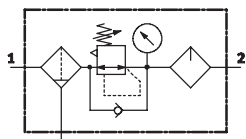
Should you require a custom combination unit, please go to our online catalog at: www.festo.com/catalog/msb6. Click on the blue basket icon  next to P/N 531030. Then open the shopping basket on the right menu and click on the configuration icon . You can now configure your combination unit.

Pre-configured Combination Units MSB6-FRC – Metric Series

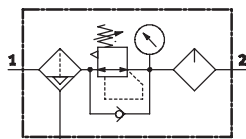
Technical Data

FESTO

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- Filter, regulator and lubricator function in a single unit
- High flow rate and highly efficient removal of contaminants
- Good regulating characteristics with minimal pressure hysteresis
- Setting values are secured by locking the rotary knob
- Lockable rotary knob
- Two pressure regulation ranges: 0.3 ... 7 bar and 0.5 ... 12 bar
- Choice of filter cartridges: 5 µm or 40 µm
- With manual or integrated, fully automatic bowl drain



General Technical Data			
Pneumatic connection 1, 2	G1/4	G3/8	G1/2
Design	Filter regulator with pressure gauge		
	Proportional standard mist lubricator		
Regulating function	With primary pressure compensation		
	With secondary venting		
	With return flow function		
	Output pressure constant		
Type of mounting	Via accessories		
Assembly position	Vertical ±5°		
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)		
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)		
Bowl guard	Plastic bowl guard		
	Metal bowl guard		
Bowl drains	Manual		
	Fully automatic		
Pressure adjustment	Rotary knob with integrated lock		
Pressure regulation range [bar]	0.3 ... 7		
	0.5 ... 12		
Pressure indicator	With pressure gauge		

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pre-configured Combination Units MSB6-FRC – Metric Series

Technical Data

FESTO

Standard Nominal Flow Rate q_{N1} [l/min]				
Pneumatic connection	G1/4	G3/8	G1/2	
Pressure regulation range 0.3... 7 bar				
Filtration grade	5 µm	2,000	4,400	4,600
	40 µm	2,100	4,600	4,800
Pressure regulation range 0.5... 12 bar				
Filtration grade	5 µm	1,700	3,400	3,600
	40 µm	1,900	3,500	3,700

1) Measured at $p_1 = 10$ bar and $p_2 = 6$ bar, $\Delta p = 1$ bar.

Operating and Environmental Conditions		
Bowl drains	Manual	Fully automatic
Supply pressure [bar]	1.5 ... 20	1.5 ... 12
Operating medium	Compressed air	
Ambient temperature [°C]	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60
Corrosion resistance CRC ²⁾	2	

2) Corrosion resistance class 2 according to Festo standard 940 070

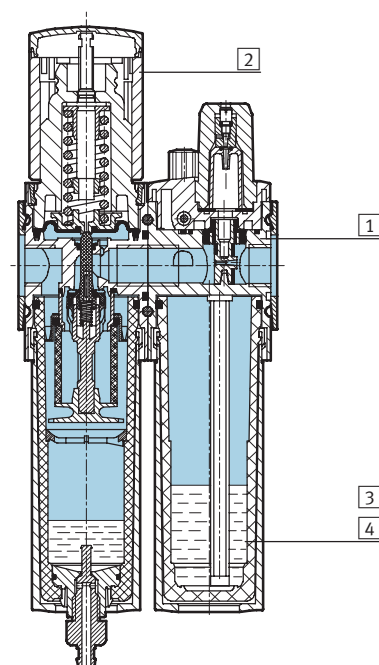
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
With plastic bowl guard	1,495
With metal bowl guard	1,713

- For spare parts go to: www.festo.com/en/spare_parts_service

Materials

Sectional view



Service unit		
1	Body	Die-cast aluminum
2	Regulating knob	Polyamide/polyacetate
3	Plastic bowl guard	Polycarbonate
4	Metal bowl guard	Wrought aluminum alloy
-	Seals	Nitrile rubber

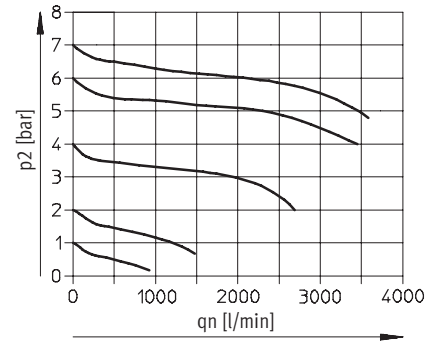
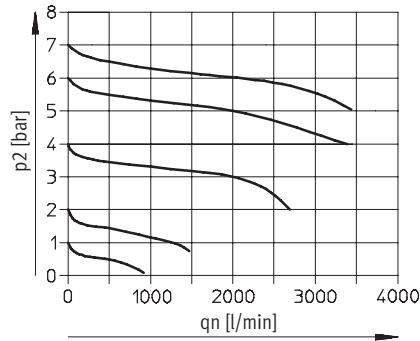
Pre-configured Combination Units MSB6-FRC – Metric Series

Technical Data

FESTO

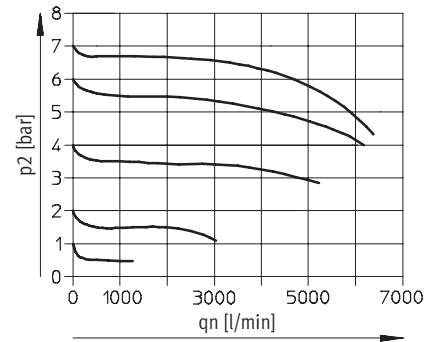
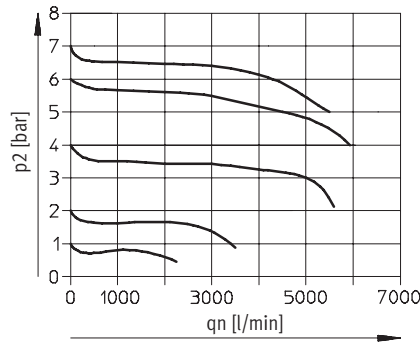
Standard Flow Rate q_n as a Function of Output Pressure p_2		
Pressure regulation range 0.3 ... 7 bar	Filtration grade 5 μm	Filtration grade 40 μm
MSB6-1/4		

Primary pressure $p_1 = 10$ bar



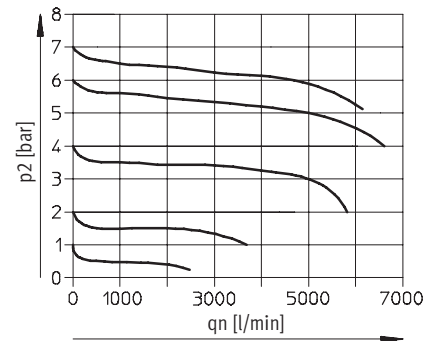
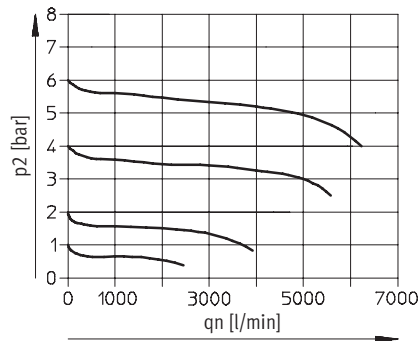
MSB6-3/8

Primary pressure $p_1 = 10$ bar



MSB6-1/2

Primary pressure $p_1 = 10$ bar



Pre-configured Combination Units MSB6-FRC – Metric Series

Technical Data

FESTO

Standard Flow Rate q_n as a Function of Output Pressure p_2

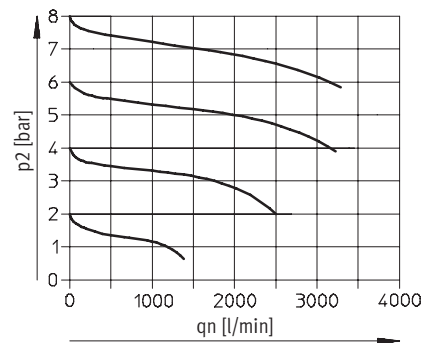
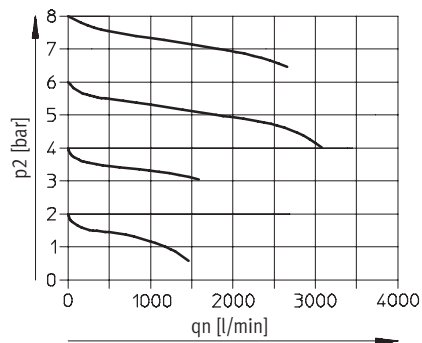
Pressure regulation range 0.5 ... 12 bar

Filtration grade 5 μm

Filtration grade 40 μm

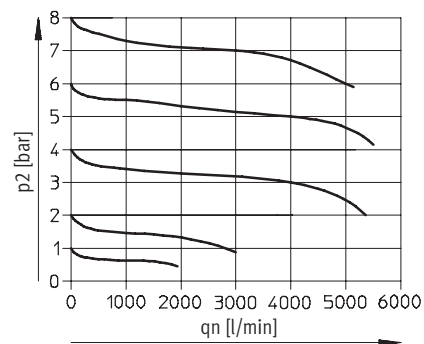
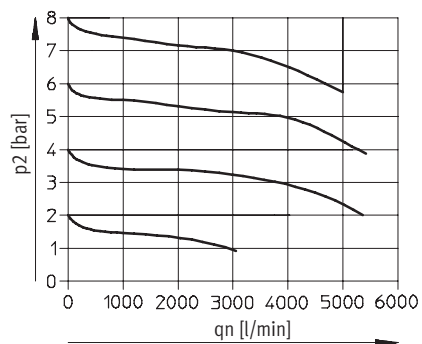
MSB6-1/4

Primary pressure $p_1 = 10$ bar



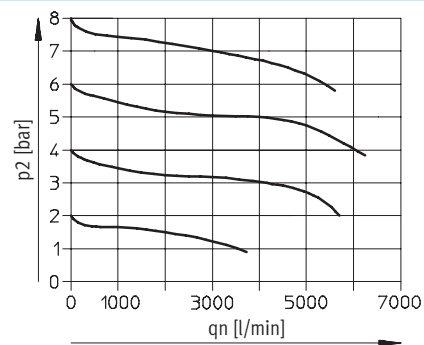
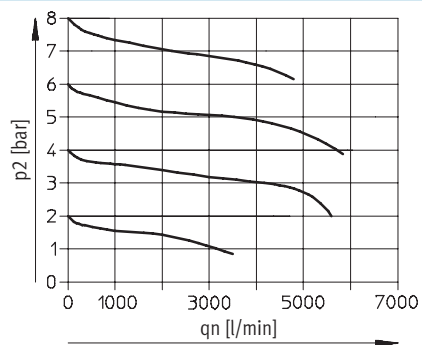
MSB6-3/8

Primary pressure $p_1 = 10$ bar



MSB6-1/2

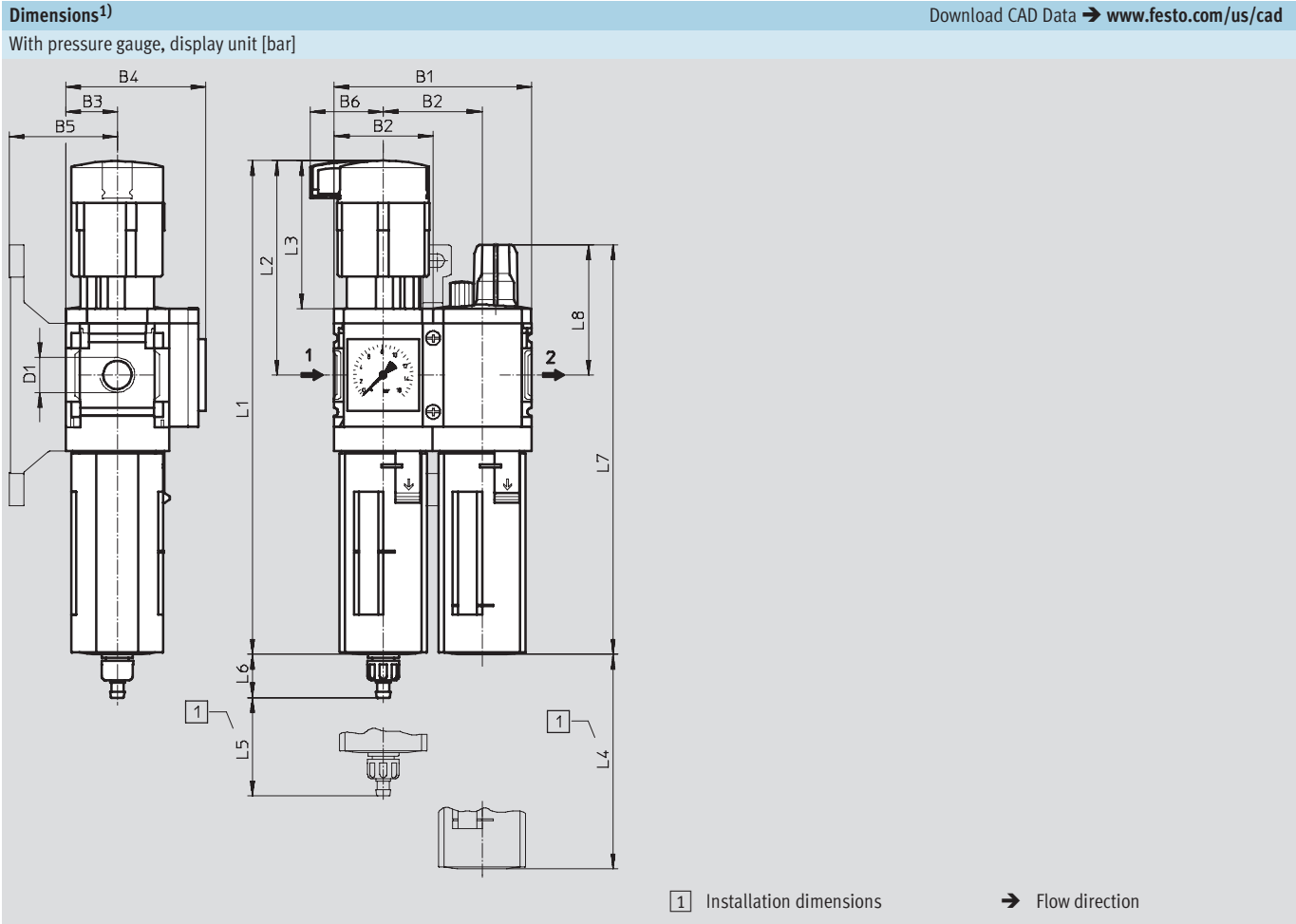
Primary pressure $p_1 = 10$ bar



Pre-configured Combination Units MSB6-FRC – Metric Series



Dimensional Drawings



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2	L3	L4	L5	L6 Bowl drain		L7	L8
													manual	fully automatic		
MSB6-1/4	124	62	31	77	54	38.8	G1/4	284.8	134.5	95.5	130	68	15.8	18.5	215.3	65.6
MSB6-3/8							G3/8									
MSB6-1/2							G1/2									

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pre-configured Combination Units MSB6-FRC – Metric Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data									
Pressure regulation range 0.3 ... 7 bar									
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm			
		Part No.	Type		LT	Part No.	Type		LT
Plastic bowl guard									
Manual	G¼	530264	MSB6-¼-FRC3:J7M1		Q	530254	MSB6-¼-FRC1:J5M1		Q
	G¾	530288	MSB6-¾-FRC3:J7M1		Q	530278	MSB6-¾-FRC1:J5M1		Q
	G½	530240	MSB6-½-FRC3:J7M1		Q	530230	MSB6-½-FRC1:J5M1		Q
Fully automatic	G¼	530266	MSB6-¼-FRC4:J8M1		Q	530262	MSB6-¼-FRC2:J6M1		Q
	G¾	530290	MSB6-¾-FRC4:J8M1		Q	530286	MSB6-¾-FRC2:J6M1		Q
	G½	530242	MSB6-½-FRC4:J8M1		Q	530238	MSB6-½-FRC2:J6M1		Q

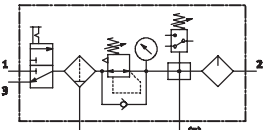
Ordering Data										
Pressure regulation range 0.5 ... 12 bar										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	G¼	530272	MSB4-¼-FRC7:J3M1			1D	530268	MSB6-¼-FRC5:J1M1		1D
	G⅜	530296	MSB6-⅜-FRC7:J3M1			1D	530292	MSB6-⅜-FRC5:J1M1		1D
	G½	530248	MSB6-½-FRC7:J3M1			1W	530244	MSB6-½-FRC5:J1M1		1W
Fully automatic	G¼	530274	MSB6-¼-FRC8:J4M1			1D	530270	MSB6-¼-FRC6:J2M1		1D
	G⅜	530298	MSB6-⅜-FRC8:J4M1			1D	530294	MSB6-⅜-FRC6:J2M1		1D
	G½	530250	MSB6-½-FRC8:J4M1			1W	530246	MSB6-½-FRC6:J2M1		1W
Metal bowl										
Manual	G¼	530258	MSB6-¼-FRC11:J9M2			Q	530276	MSB6-¼-FRC9:J11M2		Q
	G⅜	530282	MSB6-⅜-FRC11:J9M2			Q	530300	MSB6-⅜-FRC9:J11M2		Q
	G½	530234	MSB6-½-FRC11:J9M2			Q	530252	MSB6-½-FRC9:J11M2		Q
Fully automatic	G¼	530260	MSB6-¼-FRC12:J10M2			Q	530256	MSB6-¼-FRC10:J12M2		Q
	G⅜	530284	MSB6-⅜-FRC12:J10M2			Q	530280	MSB6-⅜-FRC10:J12M2		Q
	G½	530236	MSB6-½-FRC12:J10M2			Q	530232	MSB6-½-FRC10:J12M2		Q

LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

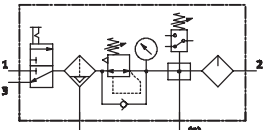
Pre-configured Combination Unit 1 – Metric Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- The unit is vented when switched off
- Electrical pressure monitoring with adjustable switching pressure
- Removal of filtered and unlubricated compressed air at the distribution block connections



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Distribution block MS...-FRM-Y with pressure switch, without display
- Lubricator MS...-LOE-R
- Mounting bracket MS...-WP

General Technical Data	
Pneumatic connection 1, 2, 3	G½
Regulating function	With primary pressure compensation
	With return flow function
	With secondary venting
	Output pressure constant
Type of mounting	Via accessories
Assembly position	Vertical ±5°
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard	Plastic bowl guard
Bowl drain	Manual
	Fully automatic
Pressure adjustment	Rotary knob with detent
	Lockable with accessories
Pressure regulation range [bar]	1 ... 12
Pressure indicator	With pressure gauge

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate qnN [l/min]		
Filtration grade	5 µm	3,200
	40 µm	3,300

Pre-configured Combination Unit 1 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [bar]	1.5 ... 18	1.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°C]	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	2,550
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

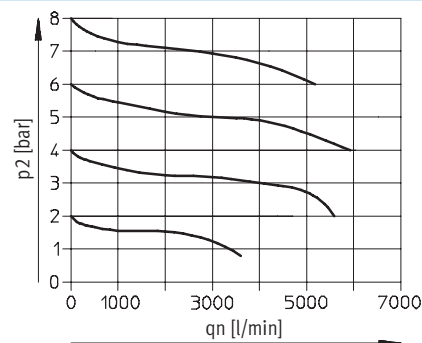
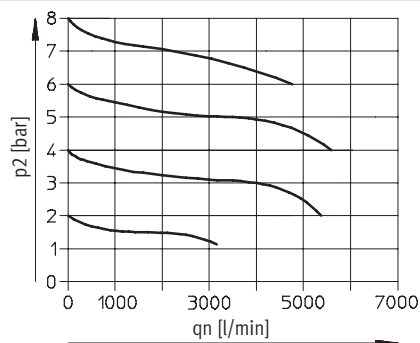
Standard Flow Rate q_n as a Function of Output Pressure p_2

Pressure regulation range 1 ... 12 bar
MSB6-1/2

Filtration grade 5 µm

Filtration grade 40 µm

Primary pressure $p_1 = 10$ bar



Pre-configured Combination Unit 1 – Metric Series

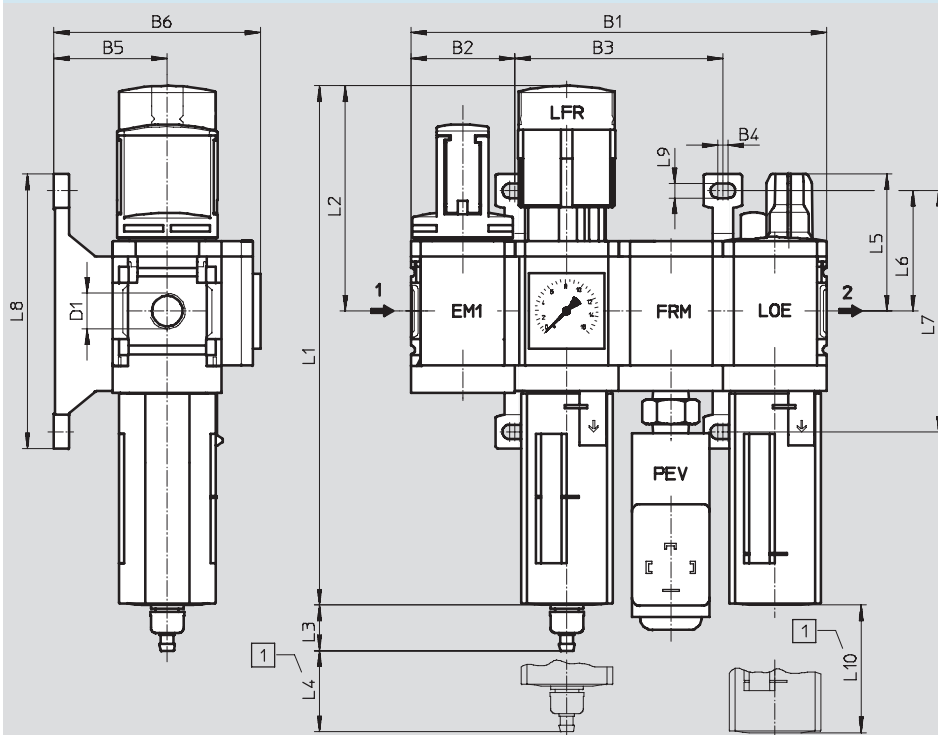
Dimensional Drawings, Ordering Data – Pre-configured Products

FESTO

Dimensions¹⁾

Download CAD Data → www.festo.com/us/cad

With pressure gauge, display unit [bar]



1 Installation dimensions

→ Flow direction

B1	B2	B3	B4	B5	B6	D1	L1	L2
248	62	124	4.5	54	100	G $\frac{1}{2}$	285	134.5

L3 Bowl drain		L4	L5	L6	L7	L8	L9	L10
manual	fully automatic							
15.8	18.5	68	66	71	142	158	6.6	130

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Ordering Data

Pressure regulation range 1 ... 12 bar

Bowl drain	Connection	Filtration grade 5 µm			Filtration grade 40 µm		
		Part No.	Type	LT	Part No.	Type	LT
Plastic bowl guard							
Manual	G½	542283	MSB6-½:C3J3F3M1-WP	1W	542271	MSB6-½:C3J1F3M1-WP	1W
Fully automatic	G½	542289	MSB6-½:C3J4F3M1-WP	1W	542277	MSB6-½:C3J2F3M1-WP	1W

LT = Lead time

1D typically ships same day/next day

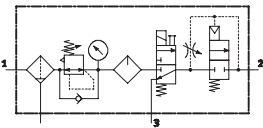
1W typically ships within 1 week

Q request a quote for lead time

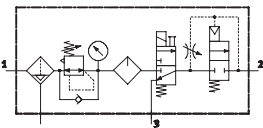
Pre-configured Combination Unit 2 – Metric Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- When supply pressure is closed, quick venting ensures rapid pressure reduction



This combination consists of:

- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3		G1/2
Regulating function		With primary pressure compensation
		With return flow function
		With secondary venting
		Output pressure constant
Type of mounting		Via accessories
Assembly position		Vertical ±5°
Filtration grade [µm]		5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
		40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard		Plastic bowl guard
Bowl drain		Manual
		Fully automatic
Pressure adjustment		Rotary knob with detent
		Lockable with accessories
Pressure regulation range [bar]		4 ... 9 (with on-off valve MS...-EE-10V24)
		4 ... 12 (with on-off valve MS...-EE-V24)
Pressure indicator		With pressure gauge
Coil characteristics [V DC]		12
Supply voltage [V DC]		24

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate q _N [l/min]		
Filtration grade	5 µm	1,900
	40 µm	2,000

Pre-configured Combination Unit 2 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions				
	Pressure regulation range 4 ... 9 bar		Pressure regulation range 4 ... 12 bar	
Bowl drain	Manual	Fully automatic	Manual	Fully automatic
Supply pressure [bar]	4.5 ... 10	4.5 ... 10	4.5 ... 18	4.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm			
Ambient temperature [°C]	-10 ... +50	+5 ... +50	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +50	+5 ... +50	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	3,000
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate q_n as a Function of Output Pressure p_2

Pressure regulation range

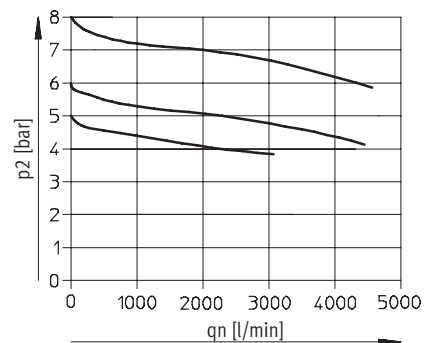
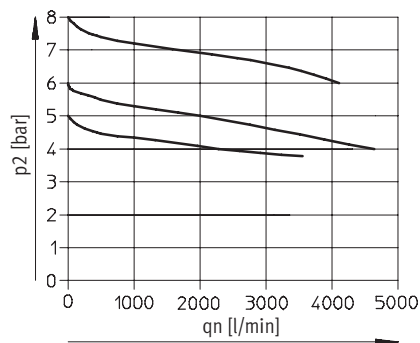
4 ... 9 bar / 4 ... 12 bar

MSB6-1/2

Filtration grade 5 µm

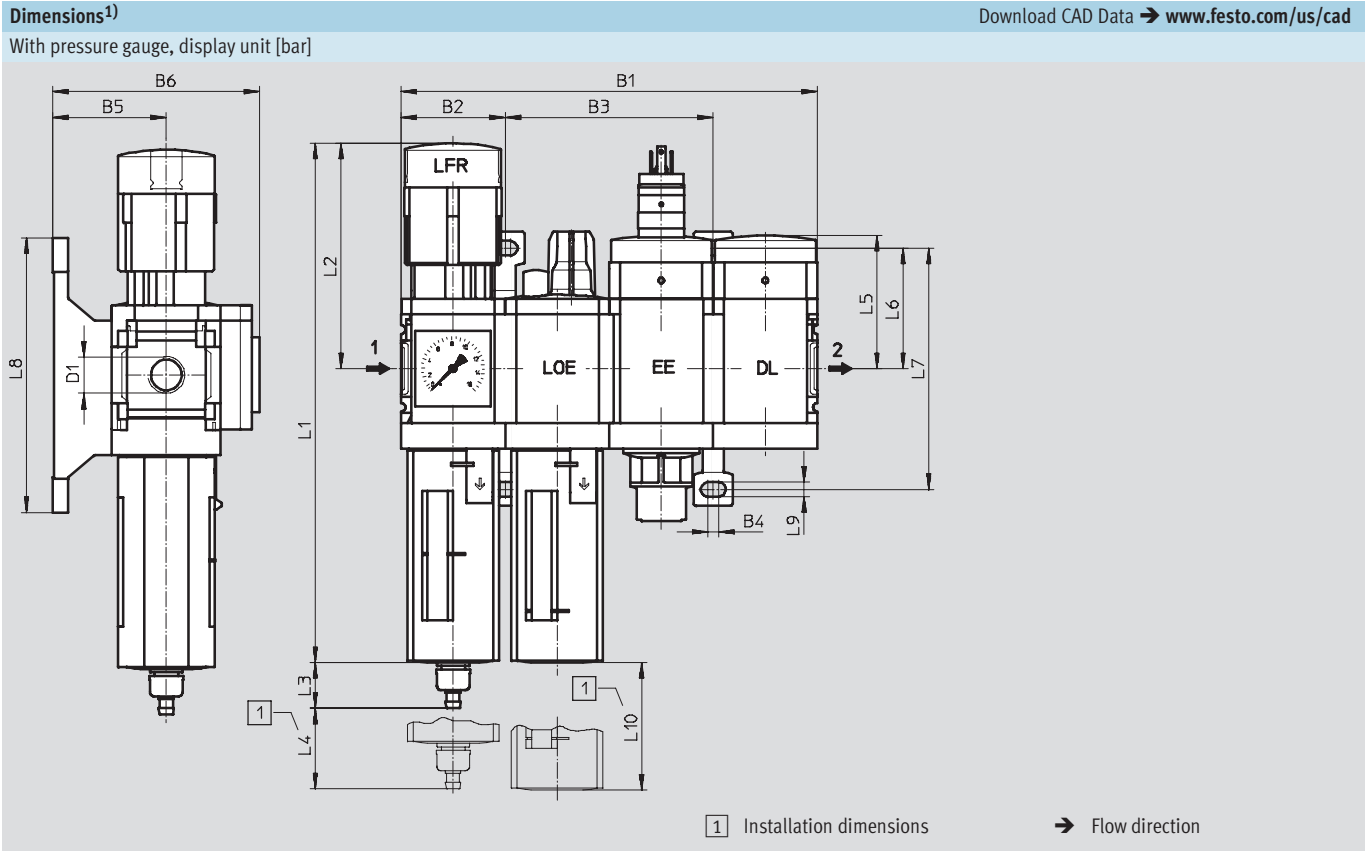
Filtration grade 40 µm

Primary pressure $p_1 = 10$ bar



Pre-configured Combination Unit 2 – Metric Series

Dimensional Drawings



B1	B2	B3	B4	B5	B6	D1	L1	L2
248	62	124	4.5	54	100	G1½	285	134.5

L3 Bowl drain		L4	L5	L6	L7	L8	L9	L10
manual	fully automatic							
15.8	18.5	68	71	71	142	158	6.6	130

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pre-configured Combination Unit 2 – Metric Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data										
Pressure regulation range 4 ... 9 bar										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	G½	542648	MSB6-½;J3M1D7A1-WP			Q	542644	MSB6-½;J1M1D7A1-WP		Q
Fully automatic	G½	542650	MSB6-½;J4M1D7A1-WP			Q	542646	MSB6-½;J2M1D7A1-WP		Q

Ordering Data									
Pressure regulation range 4 ... 12 bar									
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm			
		Part No.	Type	LT		Part No.	Type	LT	
Plastic bowl guard									
Manual	G½	530227	MSB6-½;J3M1D1A1-WP		1W	530223	MSB6-½;J1M1D1A1-WP		1W
Fully automatic	G½	530229	MSB6-½;J4M1D1A1-WP		1W	530225	MSB6-½;J2M1D1A1-WP		1W

LT = Lead time

1D typically ships same day/next day

1W typically ships within 1 week

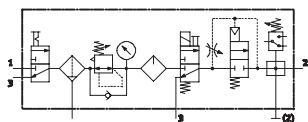
Q request a quote for lead time

Pre-configured Combination Unit 3 – Metric Series

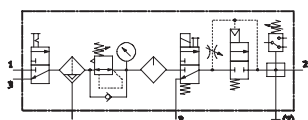
Technical Data

FESTO

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- To shut-off and vent the following device or the system
- Electrical pressure monitoring with adjustable switching pressure



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Distribution block MS...-FRM-Y with pressure switch, without display
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3	G1/2	
Regulating function	With primary pressure compensation	
	With return flow function	
	With secondary venting	
	Output pressure constant	
Type of mounting	Via accessories	
Assembly position	Vertical $\pm 5^\circ$	
Filtration grade [μm]	5 (air purity class at the output 3.7 – to DIN ISO 8573-1)	
	40 (air purity class at the output 5.7 – to DIN ISO 8573-1)	
Bowl guard	Plastic bowl guard	
Bowl drain	Manual	
	Fully automatic	
Pressure adjustment	Rotary knob with detent	
	Lockable with accessories	
Pressure regulation range	[bar]	4 ... 9 (with on-off valve MS...-EE-10V24)
	[bar]	4 ... 12 (with on-off valve MS...-EE-V24)
Pressure indicator	With pressure gauge	
Coil characteristics [V DC]	12	
Supply voltage [V DC]	24	

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate q _{nN} [l/min]		
Filtration grade	5 μm	2,100
	40 μm	2,300

Pre-configured Combination Unit 3 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions				
	Pressure regulation range 4 ... 9 bar		Pressure regulation range 4 ... 12 bar	
Bowl drain	Manual	Fully automatic	Manual	Fully automatic
Supply pressure [bar]	4.5 ... 10	4.5 ... 10	4.5 ... 18	4.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm			
Ambient temperature [°C]	-10 ... +50	+5 ... +50	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +50	+5 ... +50	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	4,000
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate q_n as a Function of Output Pressure p_2

Pressure regulation range

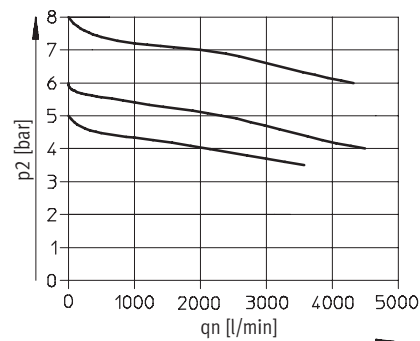
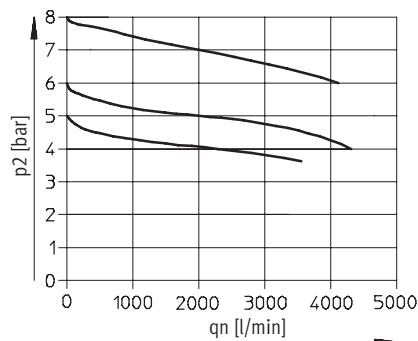
4 ... 9 bar / 4 ... 12 bar

MSB6-1/2

Filtration grade 5 µm

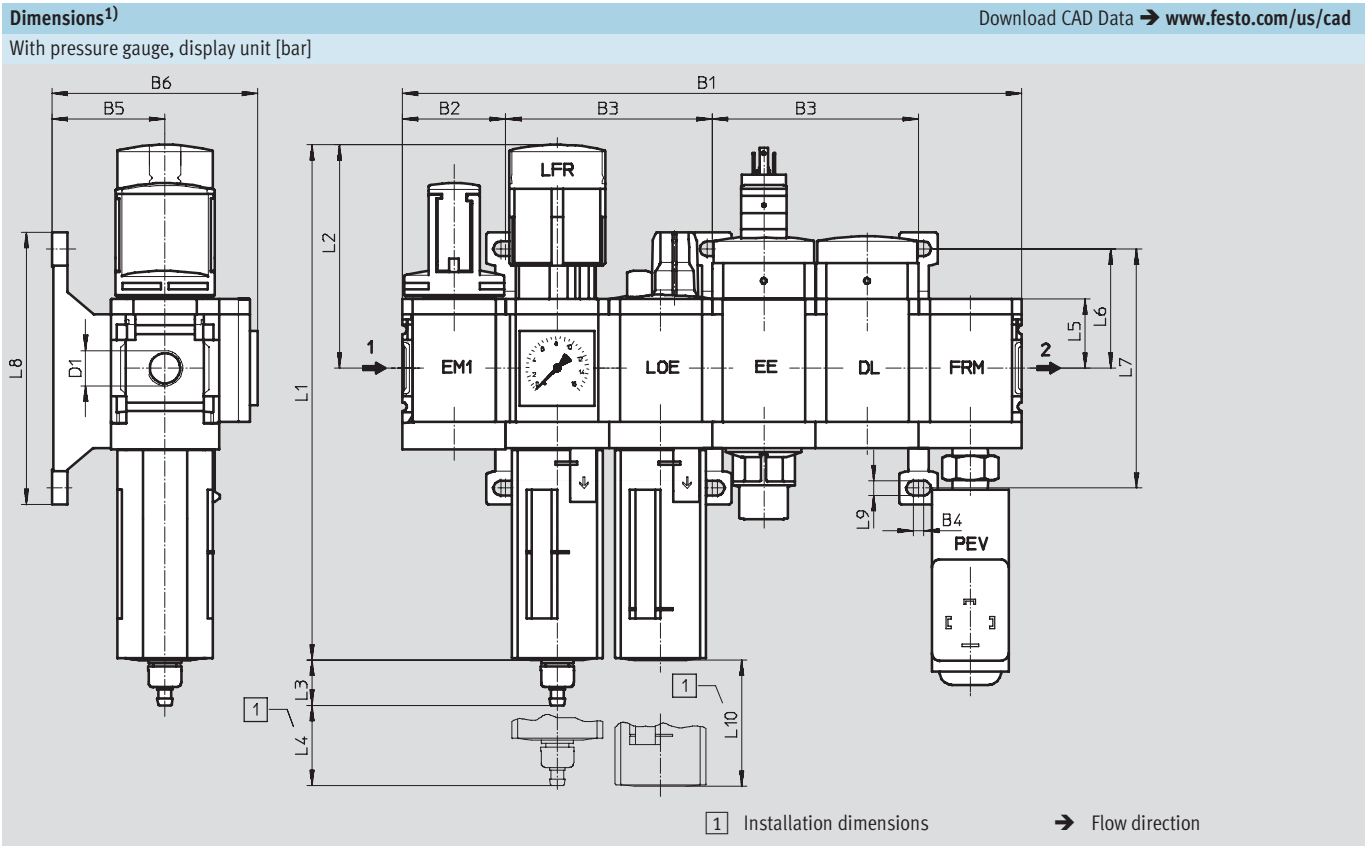
Filtration grade 40 µm

Primary pressure $p_1 = 10$ bar



Pre-configured Combination Unit 3 – Metric Series

Dimensional Drawings



B1		B2		B3		B4		B5		B6		D1		L1		L2	
372		62		124		4.5		54		100		G½		285		134.5	

L3		L4		L5		L6		L7		L8		L9		L10	
Bowl drain															
manual	fully automatic														
15.8	18.5	68		39		71		142		158		6.6		130	

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pre-configured Combination Unit 3 – Metric Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data										
Pressure regulation range 4 ... 9 bar										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	G½	542640	MSB6-½:C3J3M1D7A1F3-WP			Q	542636	MSB6-½:C3J1M1D7A1F3-WP		Q
Fully automatic	G½	542642	MSB6-½:C3J4M1D7A1F3-WP			Q	542638	MSB6-½:C3J2M1D7A1F3-WP		Q

Ordering Data										
Pressure regulation range 4 ... 12 bar										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	G½	542285	MSB6-½:C3J3M1D1A1F3-WP			1W	542273	MSB6-½:C3J1M1D1A1F3-WP		1W
Fully automatic	G½	542291	MSB6-½:C3J4M1D1A1F3-WP			1W	542279	MSB6-½:C3J2M1D1A1F3-WP		1W

LT = Lead time

1D typically ships same day/next day

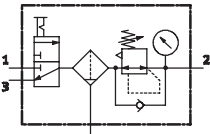
1W typically ships within 1 week

Q request a quote for lead time

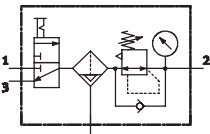
Pre-configured Combination Unit 4 – Metric Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Mounting bracket MS...-WP

General Technical Data	
Pneumatic connection 1, 2, 3	G1/2
Regulating function	With primary pressure compensation
	With return flow function
	With secondary venting
	Output pressure constant
Type of mounting	Via accessories
Assembly position	Vertical ±5°
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard	Plastic bowl guard
Bowl drain	Manual
	Fully automatic
Pressure adjustment	Rotary knob with detent
	Lockable with accessories
Pressure regulation range [bar]	0.5 ... 12
Pressure indicator	With pressure gauge

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate qnN [l/min]		
Filtration grade	5 µm	4,800
	40 µm	5,100

Pre-configured Combination Unit 4 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [bar]	0.8 ... 18	1.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°C]	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	1,100
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate qn as a Function of Output Pressure p2

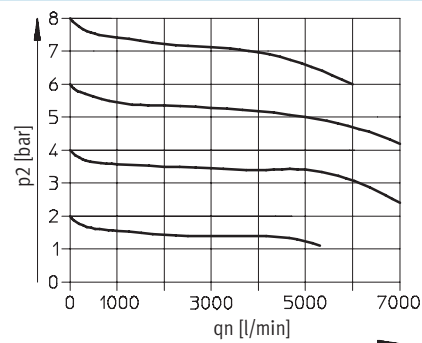
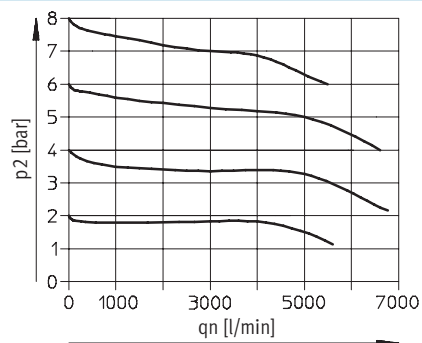
Pressure regulation range 0.5 ... 12 bar

Filtration grade 5 µm

Filtration grade 40 µm

MSB6-1/2

Primary pressure p1 = 10 bar



Pre-configured Combination Unit 4 – Metric Series

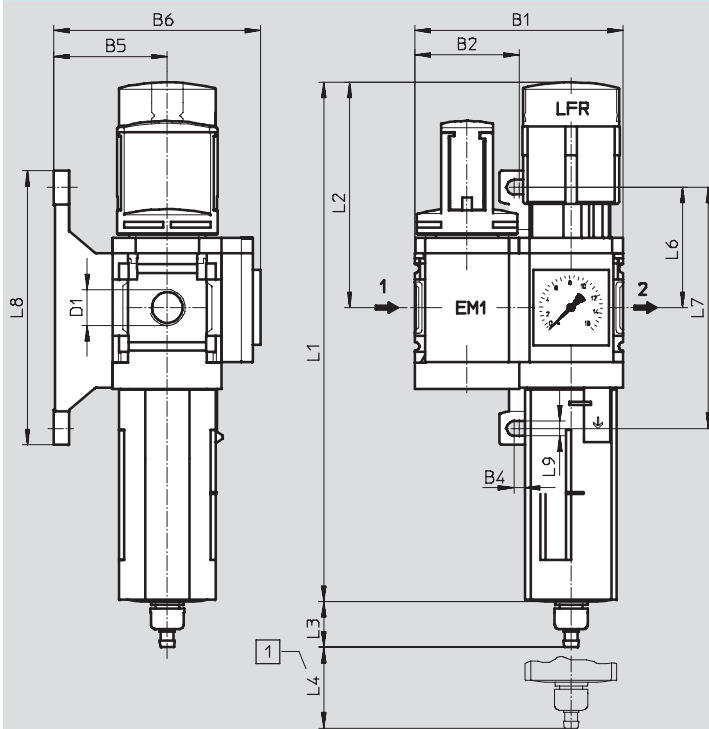
Dimensional Drawings, Ordering Data – Pre-configured Products

FESTO

Dimensions¹⁾

Download CAD Data → www.festo.com/us/cad

With pressure gauge, display unit [bar]



1 Installation dimensions

→ Flow direction

B1	B2	B4	B5	B6	D1	L1	L2
124	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

L3 Bowl drain		L4	L6	L7	L8	L9
manual	fully automatic					
15.8	18.5	68	71	142	158	6.6

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Ordering Data

Pressure regulation range 0.5 ... 12 bar

Bowl drain	Connection	Filtration grade 5 µm			Filtration grade 40 µm		
		Part No.	Type	LT	Part No.	Type	LT
Plastic bowl guard							
Manual	G½	542280	MSB6-½:C3J3-WP	1W	542268	MSB6-½:C3J1-WP	1W
Fully automatic	G½	542286	MSB6-½:C3J4-WP	1W	542274	MSB6-½:C3J2-WP	1W

LT = Lead time

1D typically ships same day/next day

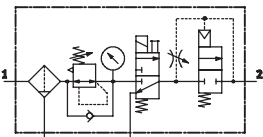
1W typically ships within 1 week

Q request a quote for lead time

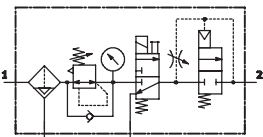
Pre-configured Combination Unit 5 – Metric Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and unlubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- When supply pressure is closed, quick venting ensures rapid pressure reduction



This combination consists of:

- Filter regulator MS...-LFR-D7
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3	G1/2	
Regulating function	With primary pressure compensation	
	With return flow function	
	With secondary venting	
	Output pressure constant	
Type of mounting	Via accessories	
Assembly position	Vertical ±5°	
Filtration grade	[µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
		40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard	Plastic bowl guard	
Bowl drain	Manual	
	Fully automatic	
Pressure adjustment	Rotary knob with detent	
	Lockable with accessories	
Pressure regulation range	[bar]	4 ... 9 (with on-off valve MS...-EE-10V24)
	[bar]	4 ... 12 (with on-off valve MS...-EE-V24)
Pressure indicator	With pressure gauge	
Coil characteristics	[V DC]	12
Supply voltage	[V DC]	24

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate q _N [l/min]		
Filtration grade	5 µm	3,000
	40 µm	3,100

Pre-configured Combination Unit 5 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions				
	Pressure regulation range 4 ... 9 bar		Pressure regulation range 4 ... 12 bar	
Bowl drain	Manual	Fully automatic	Manual	Fully automatic
Supply pressure [bar]	4.5 ... 10	4.5 ... 10	4.5 ... 18	4.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm			
Ambient temperature [°C]	-10 ... +50	+5 ... +50	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +50	+5 ... +50	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	2,400
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range

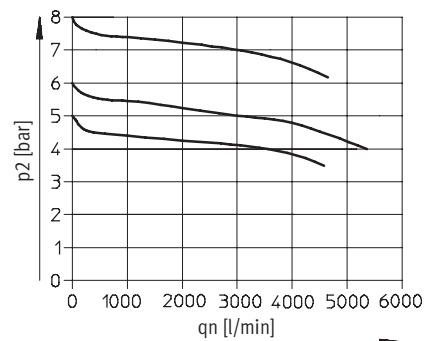
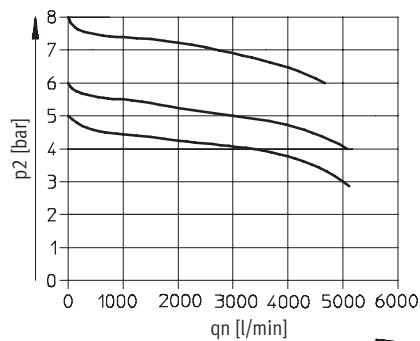
4 ... 9 bar / 4 ... 12 bar

MSB6-1/2

Filtration grade 5 µm

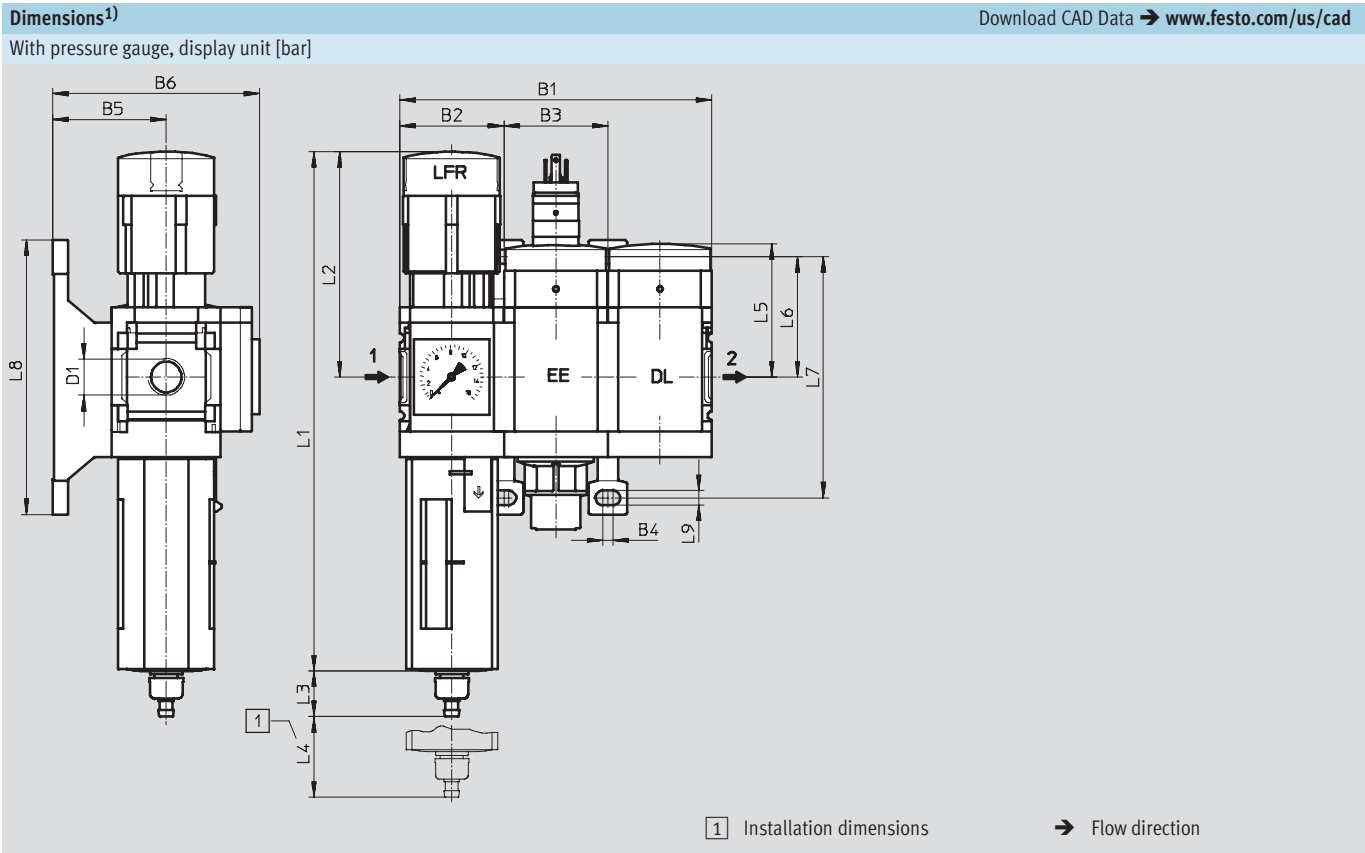
Filtration grade 40 µm

Primary pressure p1 = 10 bar



Pre-configured Combination Unit 5 – Metric Series

Dimensional Drawings



B1	B2	B3	B4	B5	B6	D1	L1	L2
186	62	62	4.5	54	100	G1½	285	134.5

L3		L4	L5	L6	L7	L8	L9
Bowl drain							
manual	fully automatic						
15.8	18.5	68	71	71	142	158	6.6

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pre-configured Combination Unit 5 – Metric Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data										
Pressure regulation range 4 ... 9 bar										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	G½	542647	MSB6-1/2;J3D7A1-WP			Q	542643	MSB6-1/2;J1D7A1-WP		Q
Fully automatic	G½	542649	MSB6-1/2;J4D7A1-WP			Q	542645	MSB6-1/2;J2D7A1-WP		Q

Ordering Data										
Pressure regulation range 4 ... 12 bar										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	G½	530226	MSB6-½;J3D1A1-WP			1W	530222	MSB6-½;J1D1A1-WP		1W
Fully automatic	G½	530228	MSB6-½;J4D1A1-WP			1W	530224	MSB6-½;J2D1A1-WP		1W

LT = Lead time

1D typically ships same day/next day

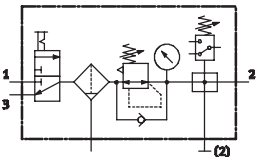
1W typically ships within 1 week

Q request a quote for lead time

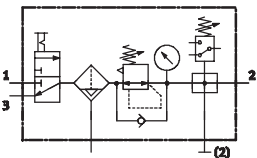
Pre-configured Combination Unit 6 – Metric Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Electrical pressure monitoring with adjustable switching pressure



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Distribution block MS...-FRM-Y with pressure switch, without display
- Mounting bracket MS...-WP

General Technical Data	
Pneumatic connection 1, 2, 3	G1/2
Regulating function	With primary pressure compensation
	With return flow function
	With secondary venting
	Output pressure constant
Type of mounting	Via accessories
Assembly position	Vertical ±5°
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard	Plastic bowl guard
Bowl drain	Manual
	Fully automatic
Pressure adjustment	Rotary knob with detent
	Lockable with accessories
Pressure regulation range [bar]	0.5 ... 12
Pressure indicator	With pressure gauge

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate qnN [l/min]		
Filtration grade	5 µm	4,400
	40 µm	4,500

Pre-configured Combination Unit 6 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [bar]	0.8 ... 18	1.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°C]	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	2,000
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

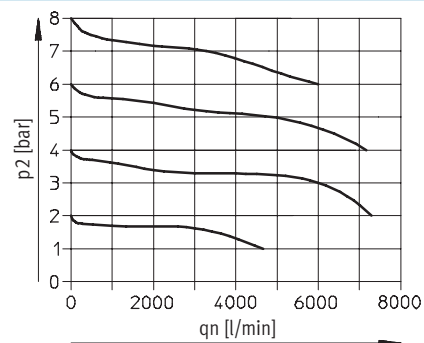
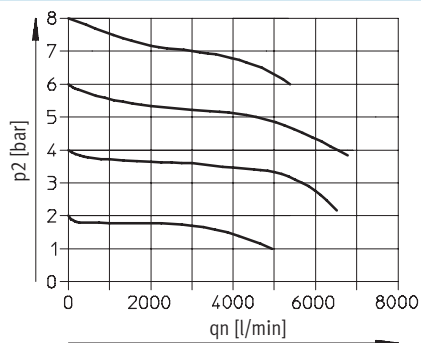
Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range 0.5 ... 12 bar Filtration grade 5 µm

Filtration grade 40 µm

MSB6-1/2

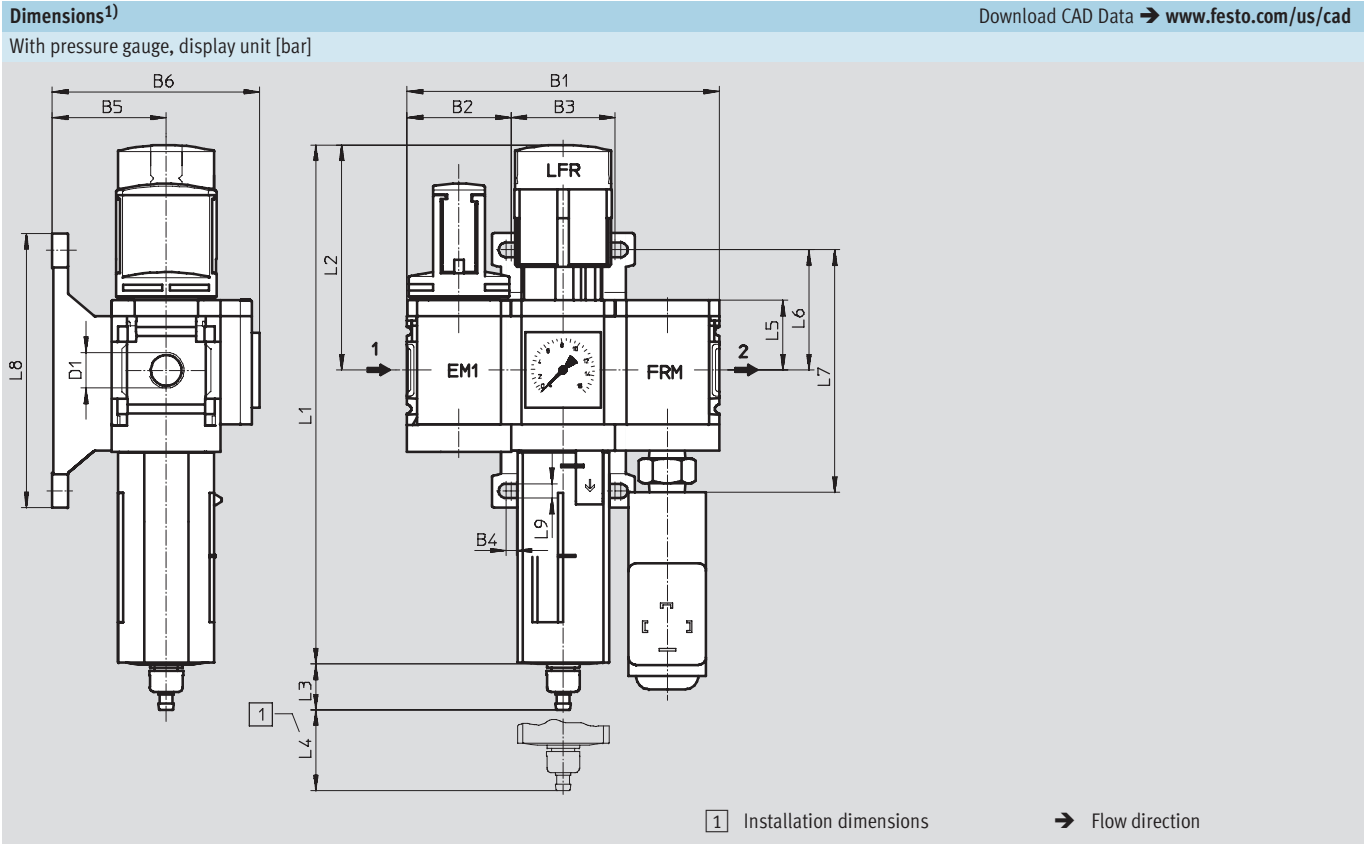
Primary pressure p1 = 10 bar



Pre-configured Combination Unit 6 – Metric Series

Dimensional Drawings, Ordering Data – Pre-configured Products

FESTO



B1	B2	B3	B4	B5	B6	D1	L1	L2
186	62	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

L3 Bowl drain		L4	L5	L6	L7	L8	L9
manual	fully automatic						
15.8	18.5	68	39	71	142	158	6.6

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Ordering Data									
Pressure regulation range 0.5 ... 12 bar									
Bowl drain		Connection	Filtration grade 5 μ m				Filtration grade 40 μ m		
			Part No.	Type	LT		Part No.	Type	LT
Plastic bowl guard									
Manual	G $\frac{1}{2}$		542282	MSB6- $\frac{1}{2}$:C3J3F3-WP	1W		542270	MSB6- $\frac{1}{2}$:C3J1F3-WP	1W
Fully automatic	G $\frac{1}{2}$		542288	MSB6- $\frac{1}{2}$:C3J4F3-WP	1W		542276	MSB6- $\frac{1}{2}$:C3J2F3-WP	1W

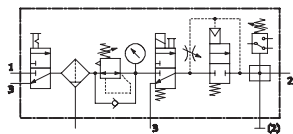
LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

Pre-configured Combination Unit 7 – Metric Series

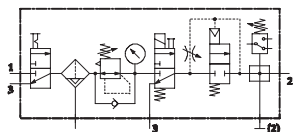
Technical Data

FESTO

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- To shut-off and vent the following device or the system
- Electrical pressure monitoring with adjustable switching pressure



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Distribution block MS...-FRM-Y with pressure switch without display
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3	G1/2	
Regulating function	With primary pressure compensation	
	With return flow function	
	With secondary venting	
	Output pressure constant	
Type of mounting	Via accessories	
Assembly position	Vertical ±5°	
Filtration grade [µm]	5 (air purity class at the output 3.7 – to DIN ISO 8573-1)	
	40 (air purity class at the output 5.7 – to DIN ISO 8573-1)	
Bowl guard	Plastic bowl guard	
Bowl drain	Manual	
	Fully automatic	
Pressure adjustment	Rotary knob with detent	
	Lockable with accessories	
Pressure regulation range [bar]	4 ... 9 (with on-off valve MS...-EE-10V24)	
	4 ... 12 (with on-off valve MS...-EE-V24)	
Pressure indicator	With pressure gauge	
Coil characteristics [V DC]	12	
Supply voltage [V DC]	24	

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate q _{nN} [l/min]		
Filtration grade	5 µm	3,000
	40 µm	3,100

Pre-configured Combination Unit 7 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions				
	Pressure regulation range 4 ... 9 bar		Pressure regulation range 4 ... 12 bar	
Bowl drain	Manual	Fully automatic	Manual	Fully automatic
Supply pressure [bar]	4.5 ... 10	4.5 ... 10	4.5 ... 18	4.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm			
Ambient temperature [°C]	-10 ... +50	+5 ... +50	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +50	+5 ... +50	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	3,500
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range

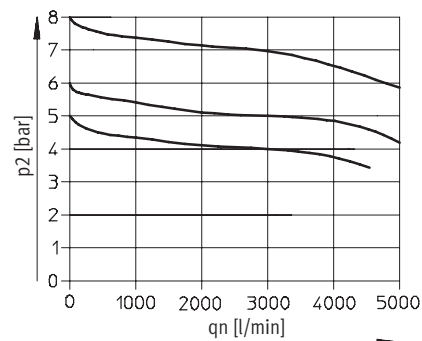
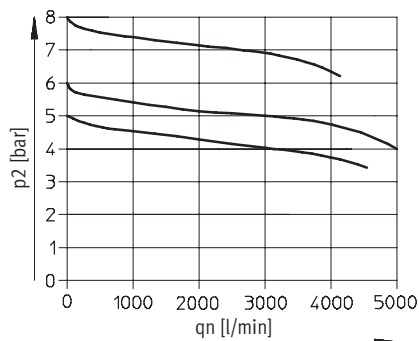
4 ... 9 bar / 4 ... 12 bar

MSB6-1/2

Filtration grade 5 µm

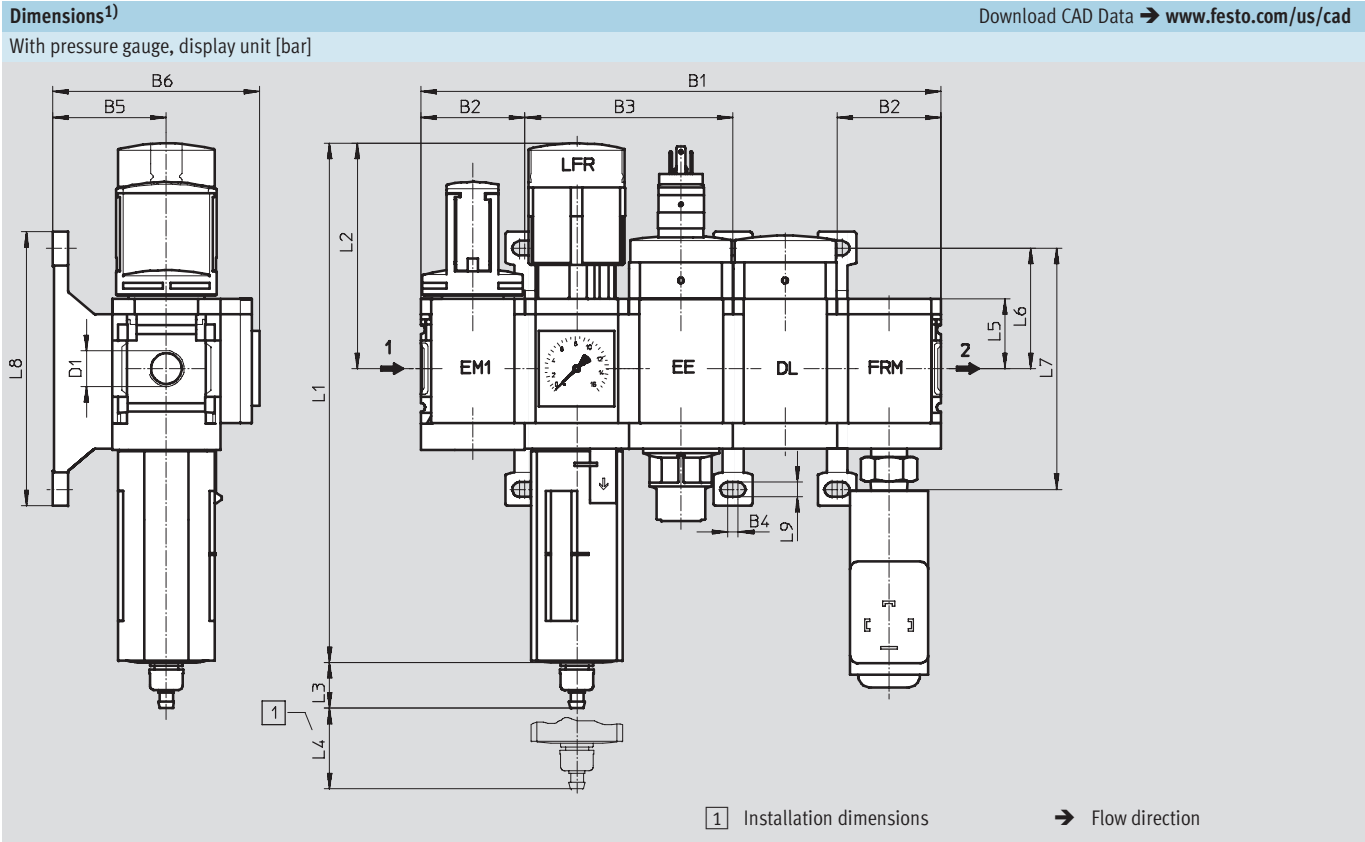
Filtration grade 40 µm

Primary pressure p1 = 10 bar



Pre-configured Combination Unit 7 – Metric Series

Dimensional Drawings



B1		B2		B3		B4		B5		B6		D1		L1		L2	
310		62		124		4.5		54		100		G1/2		285		134.5	

L3		L4		L5		L6		L7		L8		L9	
Bowl drain													
manual	fully automatic												
15.8	18.5	68		39		71		142		158		6.6	

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pre-configured Combination Unit 7 – Metric Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data											
Pressure regulation range 4 ... 9 bar											
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm					
		Part No.	Type		LT	Part No.	Type		LT		
Plastic bowl guard											
Manual	G½	542639	MSB6-½:C3J3D7A1F3-WP			Q		542635	MSB6-½:C3J1D7A1F3-WP		Q
Fully automatic	G½	542641	MSB6-½:C3J4D7A1F3-WP			Q		542637	MSB6-½:C3J2D7A1F3-WP		Q

Ordering Data									
Pressure regulation range 4 ... 12 bar									
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm			
		Part No.	Type	LT		Part No.	Type	LT	
Plastic bowl guard									
Manual	G½	542281	MSB6-½:C3J3D1A1F3-WP		1W	542269	MSB6-½:C3J1D1A1F3-WP		1W
Fully automatic	G½	542287	MSB6-½:C3J4D1A1F3-WP		1W	542275	MSB6-½:C3J2D1A1F3-WP		1W

LT = Lead time

1D typically ships same day/next day

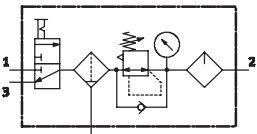
1W typically ships within 1 week

Q request a quote for lead time

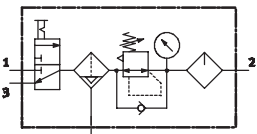
Pre-configured Combination Unit 8 – Metric Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- Mounting bracket MS...-WP

General Technical Data	
Pneumatic connection 1, 2, 3	G1/2
Regulating function	With primary pressure compensation
	With return flow function
	With secondary venting
	Output pressure constant
Type of mounting	Via accessories
Assembly position	Vertical ±5°
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard	Plastic bowl guard
Bowl drain	Manual
	Fully automatic
Pressure adjustment	Rotary knob with detent
	Lockable with accessories
Pressure regulation range [bar]	1 ... 12
Pressure indicator	With pressure gauge

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate qnN [l/min]		
Filtration grade	5 µm	3,000
	40 µm	3,100

Pre-configured Combination Unit 8 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [bar]	1.5 ... 18	1.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°C]	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	1,750
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate qn as a Function of Output Pressure p2

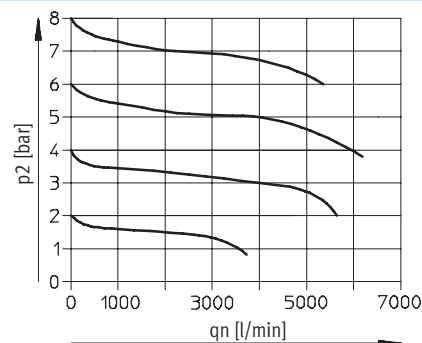
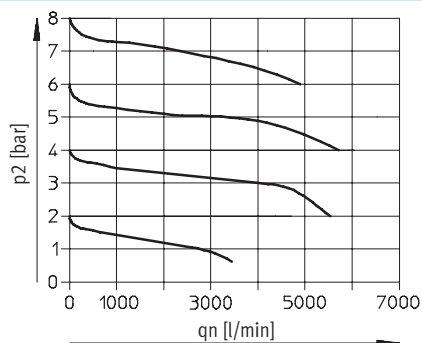
Pressure regulation range 1 ... 12 bar

Filtration grade 5 µm

Filtration grade 40 µm

MSB6-1/2

Primary pressure p1 = 10 bar



Pre-configured Combination Unit 8 – Metric Series

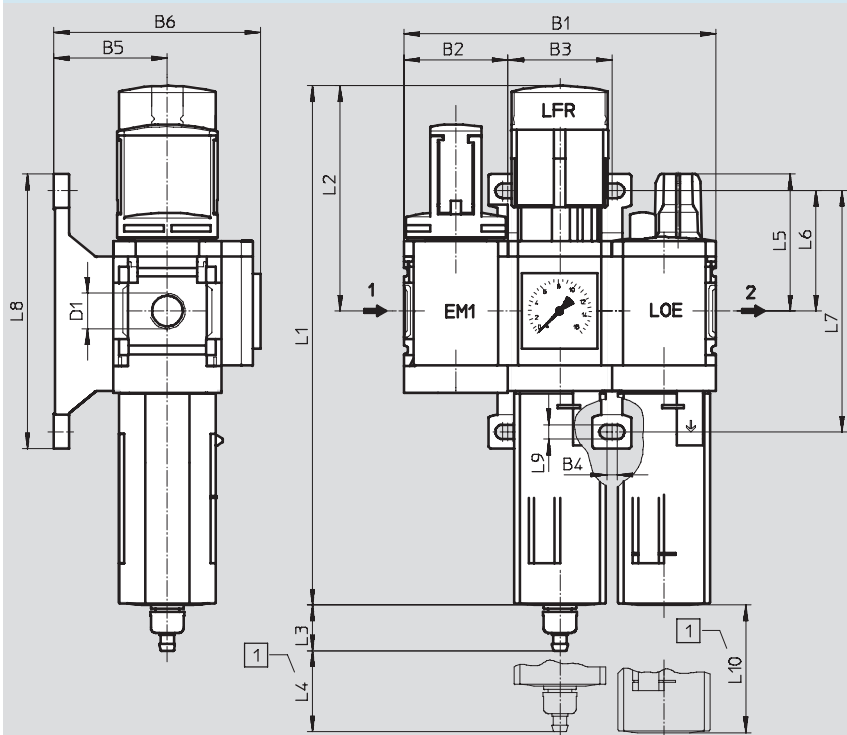
Dimensional Drawings, Ordering Data – Pre-configured Products

FESTO

Dimensions¹⁾

Download CAD Data → www.festo.com/us/cad

With pressure gauge, display unit [bar]



1 Installation dimensions

→ Flow direction

B1	B2	B3	B4	B5	B6	D1	L1	L2
186	62	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

L3 Bowl drain		L4	L5	L6	L7	L8	L9	L10
manual	fully automatic							
15.8	18.5	68	66	71	142	158	6.6	130

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Ordering Data

Pressure regulation range 1 ... 12 bar

Bowl drain	Connection	Filtration grade 5 µm			Filtration grade 40 µm		
		Part No.	Type	LT	Part No.	Type	LT
Plastic bowl guard							
Manual	G½	542284	MSB6-½:C3J3M1-WP	1W	542272	MSB6-½:C3J1M1-WP	1W
Fully automatic	G½	542290	MSB6-½:C3J4M1-WP	1W	542278	MSB6-½:C3J2M1-WP	1W

LT = Lead time

1D typically ships same day/next day

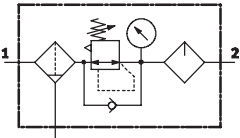
1W typically ships within 1 week

Q request a quote for lead time

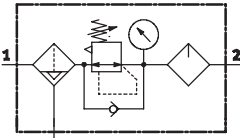
Pre-configured Combination Unit 9 – Metric Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range



This combination consists of:

- Filter MS...-LF
- Pressure regulator MS...-LR
- Lubricator MS...-LOE
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2		G1/2
Type of mounting		Via accessories
Assembly position		Vertical ±5°
Filtration grade	[µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
		40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard		Plastic bowl guard
		Metal bowl guard
Bowl drain		Manual
		Fully automatic
Pressure adjustment		Rotary knob with detent
		Lockable with accessories
Pressure regulation range	N2 [bar]	1 ... 7
	N3 [bar]	1 ... 12
Pressure indicator		With pressure gauge

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Standard Nominal Flow Rate q _N [l/min]		
N2 – Pressure regulation range 1 ... 7 bar		
Filtration grade	40 µm	4,700
N3 – Pressure regulation range 1 ... 12 bar		
Filtration grade	5 µm	3,500
	40 µm	3,500

Pre-configured Combination Unit 9 – Metric Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [bar]	1.5 ... 18	1.5 ... 12
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°C]	-10 ... +60	+5 ... +60
Temperature of medium [°C]	-10 ... +60	+5 ... +60
Storage temperature [°C]	-10 ... +60	-10 ... +60
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [g]	
Service unit combination	
With plastic bowl guard	2,000
With metal bowl guard	2,400
Mounting bracket	76

- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate qn as a Function of Output Pressure p2

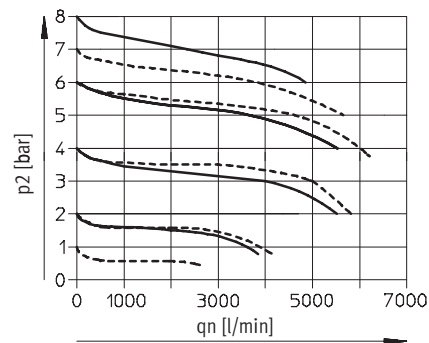
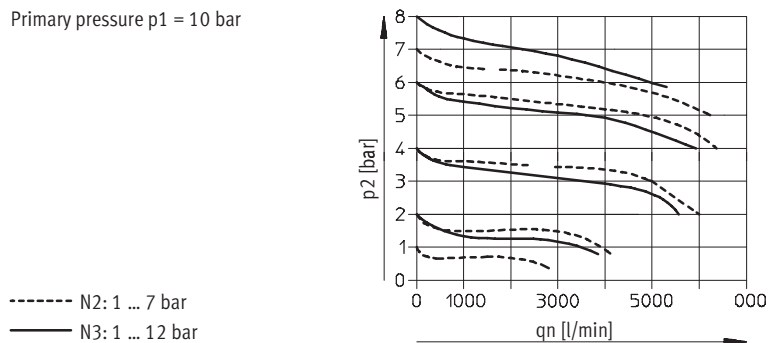
Pressure regulation range N2 or N3

Filtration grade 5 µm

Filtration grade 40 µm

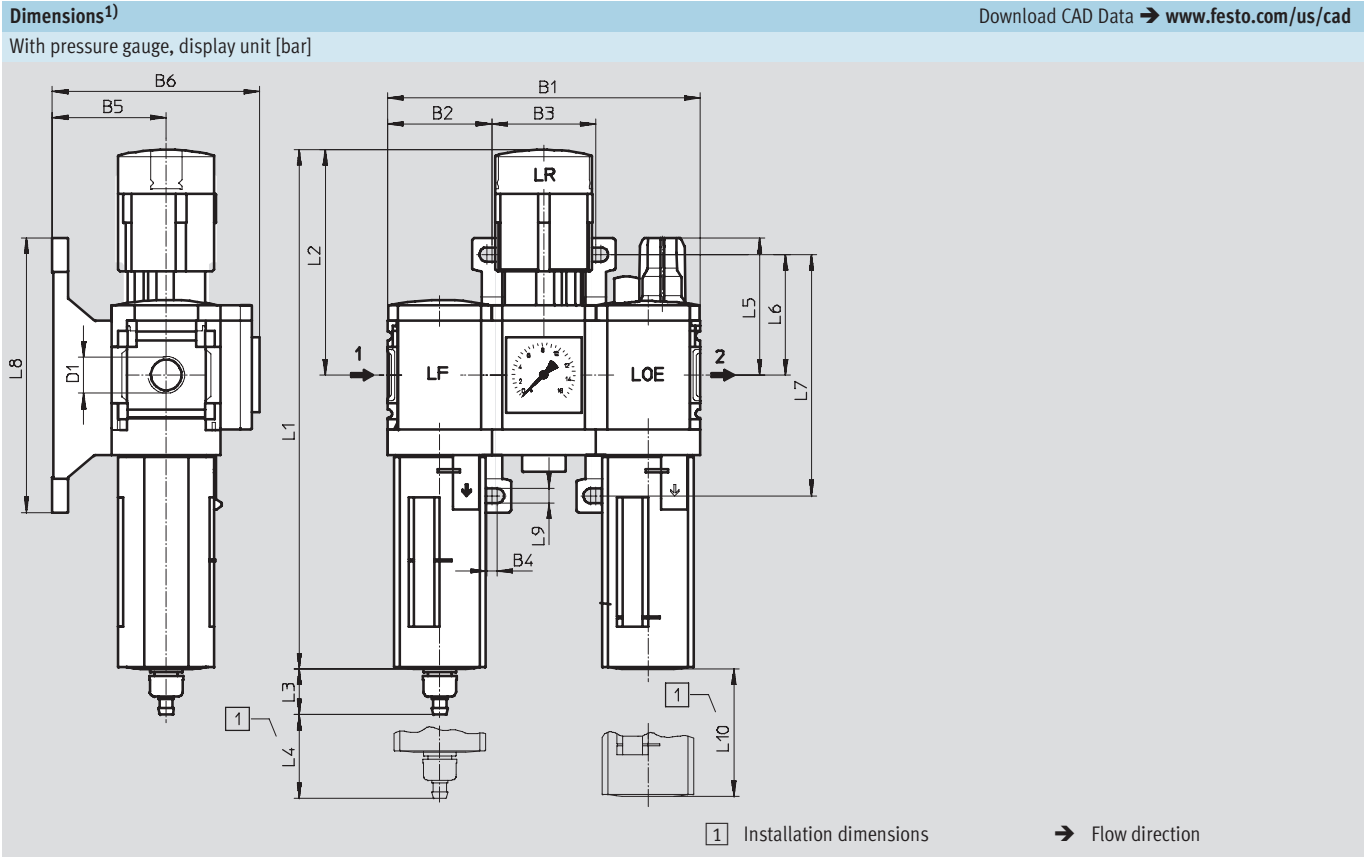
MSB6-1/2

Primary pressure p1 = 10 bar



Pre-configured Combination Unit 9 – Metric Series

Dimensional Drawings



B1	B2	B3	B4	B5	B6	D1	L1	L2
186	62	62	4.5	54	100	G $\frac{1}{2}$	285	134.5

L3 Bowl drain		L4	L5	L6	L7	L8	L9	L10
manual	fully automatic							
15.8	18.5	68	66	71	142	158	6.6	130

1) Dimensions are in millimeters, unless otherwise noted.

Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Pre-configured Combination Unit 9 – Metric Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data				
Pressure regulation range 1 ... 7 bar				
Bowl drain	Connection	Filtration grade 40 µm		
		Part No.	Type	LT
Plastic bowl guard				
Manual	G½	530212	MSB6-½:H2N2M1-WP	Q
Fully automatic	G½	530206	MSB6-½:H1N2M1-WP	Q

Ordering Data									
Pressure regulation range 1 ... 12 bar									
Bowl drain	Connection	Filtration grade 5 µm			Filtration grade 40 µm				
		Part No.	Type	LT	Part No.	Type	LT		
Plastic bowl guard									
Manual	G½	530218	MSB6-½:H3N3M1-WP		1W	530214	MSB6-½:H2N3M1-WP		1W
Fully automatic	G½	530220	MSB6-½:H4N3M1-WP		1W	530208	MSB6-½:H1N3M1-WP		1W
Metal bowl guard									
Manual	G½	-				530216	MSB6-½:H8N3M2-WP		Q
Fully automatic	G½	-				530210	MSB6-½:H7N3M2-WP		Q

LT = Lead time

1D typically ships same day/next day

1W typically ships within 1 week

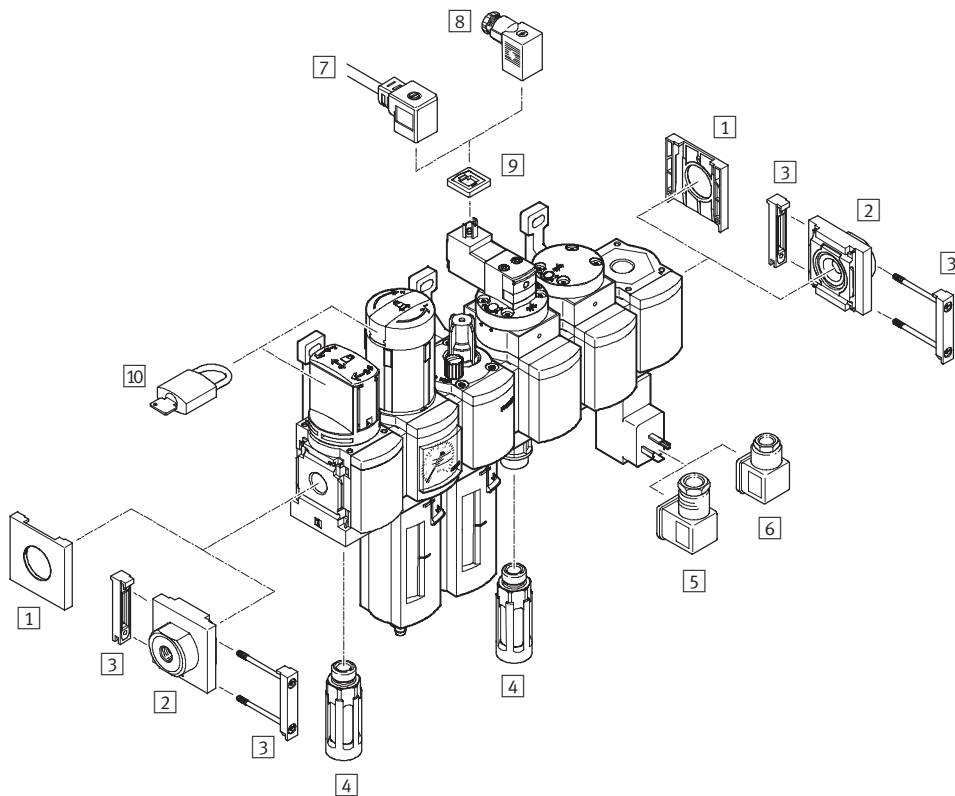
Q request a quote for lead time

Pre-configured Combination Units MSB6 – Metric Series

Accessories Overview

FESTO

Mounting Attachments and Accessories



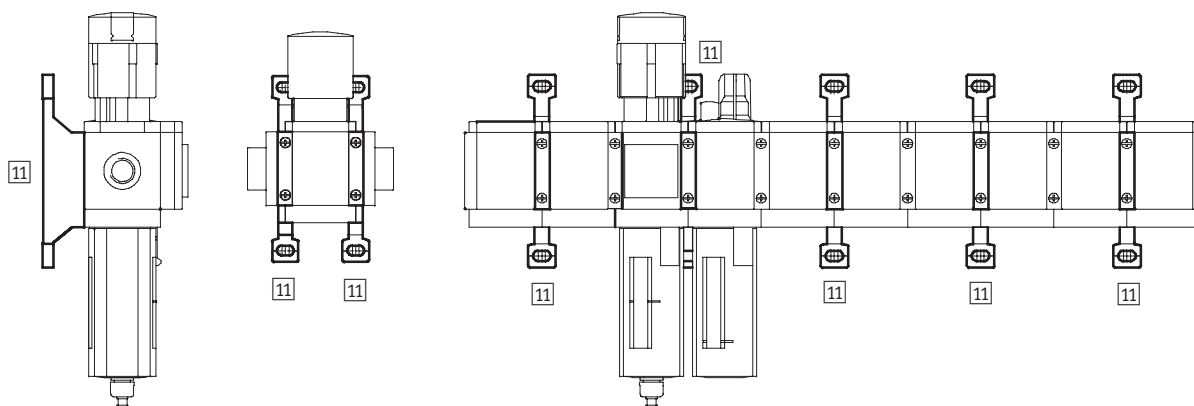
Note

The choice of accessories depends on the selected combination unit.

Range of accessories

➔ See the accessories pages of the individual devices

Single unit and combination unit mounting brackets.



Pre-configured Combination Units MSB6 – Metric Series

Accessories Overview

FESTO

Mounting Attachments and Accessories		→ Page
1	Cover cap MS6-END	514
2	Port plate MS6-AG...	515
3	Body connector MS6-MV	515
4	Silencer U	520
5	Angled socket PEV-¼-WD-LED	520
6	Plug socket MSSD-C-4P	520
7	Plug socket with cable KMEB	520
8	Plug socket MSSD-EB	520
9	Illuminating seal MEB-LD	520
10	Padlock LRVS-D	520
11	Mounting bracket (for service unit MSB-FRC) MS6-WP/WPB/WPM	516

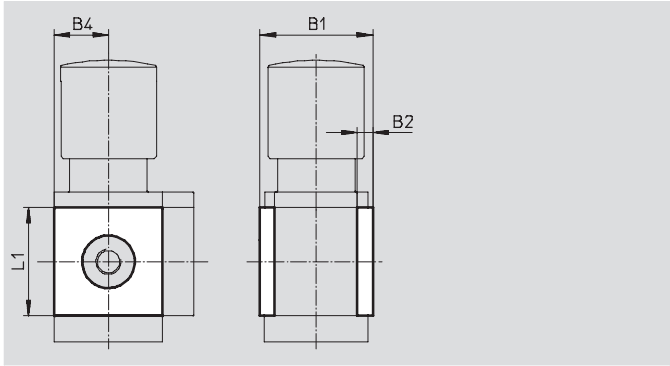
Pre-configured Combination Units MSB6 – Metric Series

Accessories

1 Cover cap MS6-END

- Can be used to cover the body sides of the first and last module if port plates are not used.

Material:
Reinforced polyamide
Free of copper and PTFE



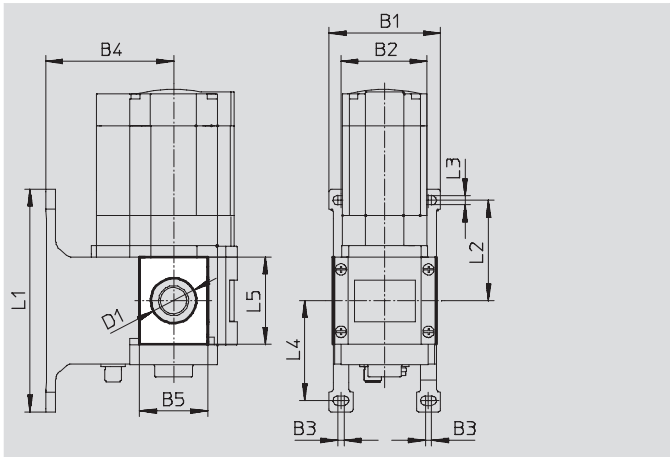
Dimensions and Ordering Data					
B1	B2	B4	L1	Part No.	Type
67	8	31	62	538780	MS6-END

Mounting plate MS6-AEND

(order code: WBE; scope of delivery includes mounting bracket MS6-WPB)

- In combination with mounting bracket MS-WP or MS-WPB for mounting an individual unit on a wall with body thread

Material:
Reinforced polyamide
Conforms to RoHS
Free of copper and PTFE



Dimensions and ordering data															
B1	B2	B3	B4		B5	D1 Ø	L1	L2	L3	L4	L5	CRC ¹⁾	Weight [g]	Part No.	Type
			WP	WPB											
79	62	4.5	54	90.5	48.4	32	158	71	6.6	71	62	2	17	535 408	MS6-AEND

1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

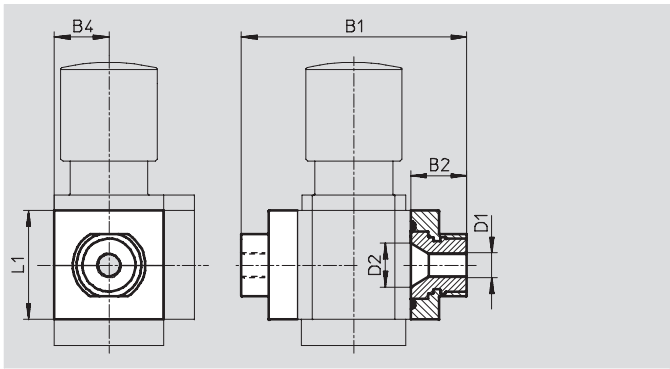
Pre-configured Combination Units MSB6 – Metric Series

Accessories

2 Port plate MS6-AG...

- Adapter for pneumatic connection
- MS6-AGE for implementing threaded connection G3/4

Material:
Aluminum



Dimensions and Ordering Data								
B1	B2	B4	D1	D2	L1	Weight [g]	Part No.	Type
115	26.5	31	G1/4	24	62	300	526080	MS6-AGB
			G3/8				526081	MS6-AGC
			G1/2				526082	MS6-AGD
			G3/4				526083	MS6-AGE

3 Body connector MS...-MV

- For connecting modules

Material:
Stainless steel/polyacetate



Ordering Data		
Weight [g]	Part No.	Type
54	532799	MS6-MV

Pre-configured Combination Units MSB6 – Metric Series

Accessories

11 Mounting Bracket MS6-WP...

Suggested placement of wall mounting brackets when mounting air preparation combinations

1 unit: 62 mm with WP, WPB
69 mm with WPM-D

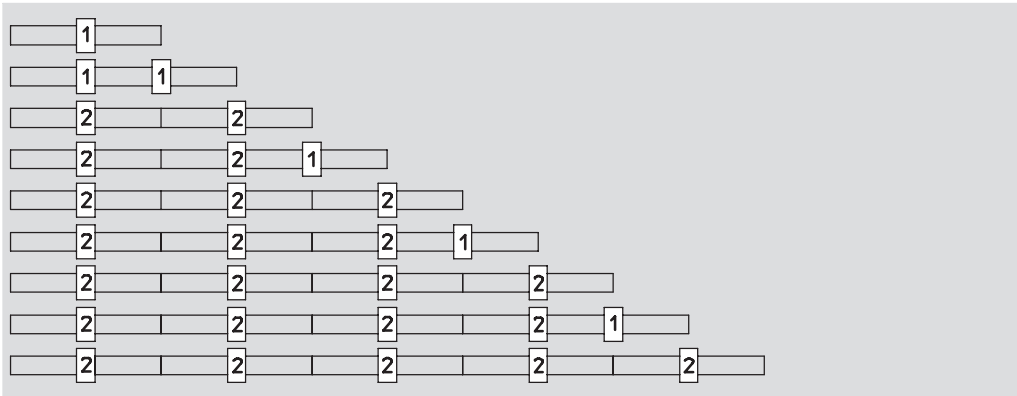
Number of units

1 2 3 4 5 6 7 8 9 10

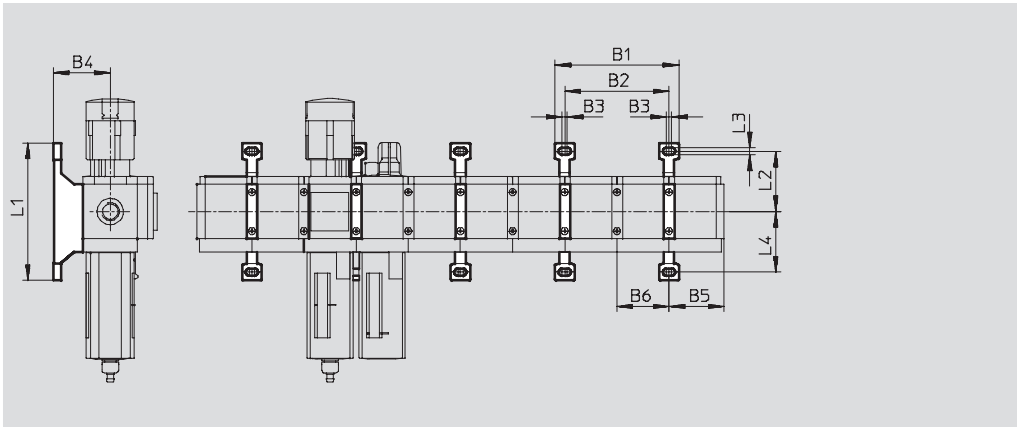
2 units: 124 mm with WP, WPB
138 mm with WPM-2D

1 Mounting bracket WP, WPB or
WPM-D

2 Mounting bracket WP, WPB or
WPM-2D



Mounting dimensions



Type	B1	B2	B3	B4	B5	B6	L1	L2	L3	L4
MS6-WP	141	124	4.5	54	64.5	62	158	71	6.6	71
MS6-WPB				90.5						
MS6-WPM-...D	168	138	17.5	54	65.5	69	98.6	41.3		41.3

Pre-configured Combination Units MSB6 – Metric Series

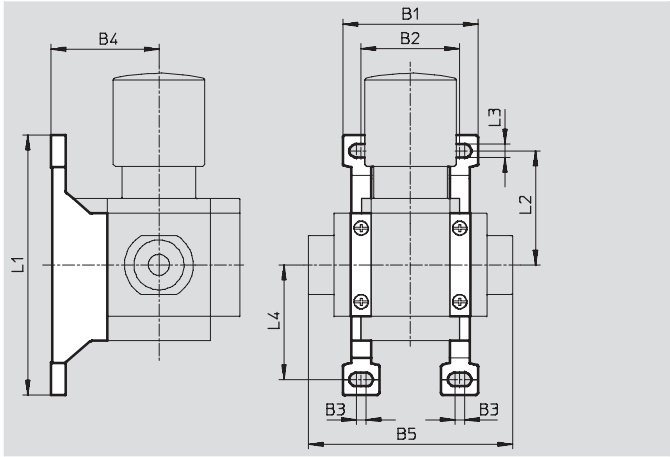
Accessories

Mounting bracket MS6-WP

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with body thread on a wall
- For pressure regulator LRB with angled outlet block B... at rear

Material:

Die-cast aluminum



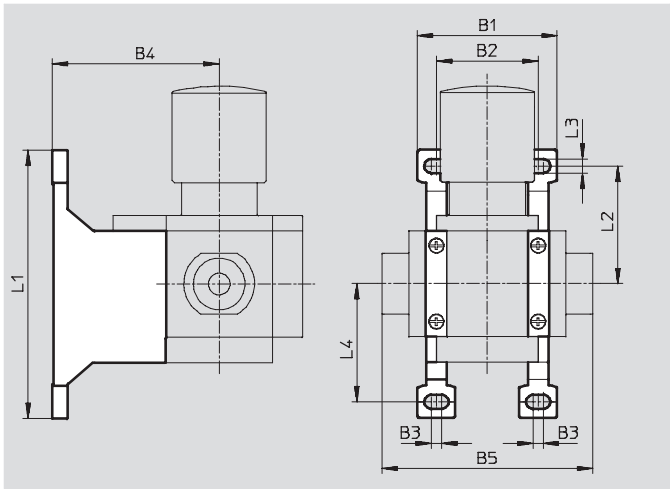
Dimensions and Ordering Data										
B1	B2	B3	B4	B5	L1	L2	L3	L4	Weight [g]	Part No. Type
79	62	4.5	54	115	158	71	6.6	71	76	532195 MS6-WP

Mounting bracket MS6-WPB

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with direct thread on a wall
- Provides large wall gap for pressure regulator

Material:

Die-cast aluminum



Dimensions and Ordering Data										
B1	B2	B3	B4	B5	L1	L2	L3	L4	Weight [g]	Part No. Type
79	62	4.5	90.5	115	158	71	6.6	71	115	526074 MS6-WPB

Pre-configured Combination Units MSB6 – Metric Series

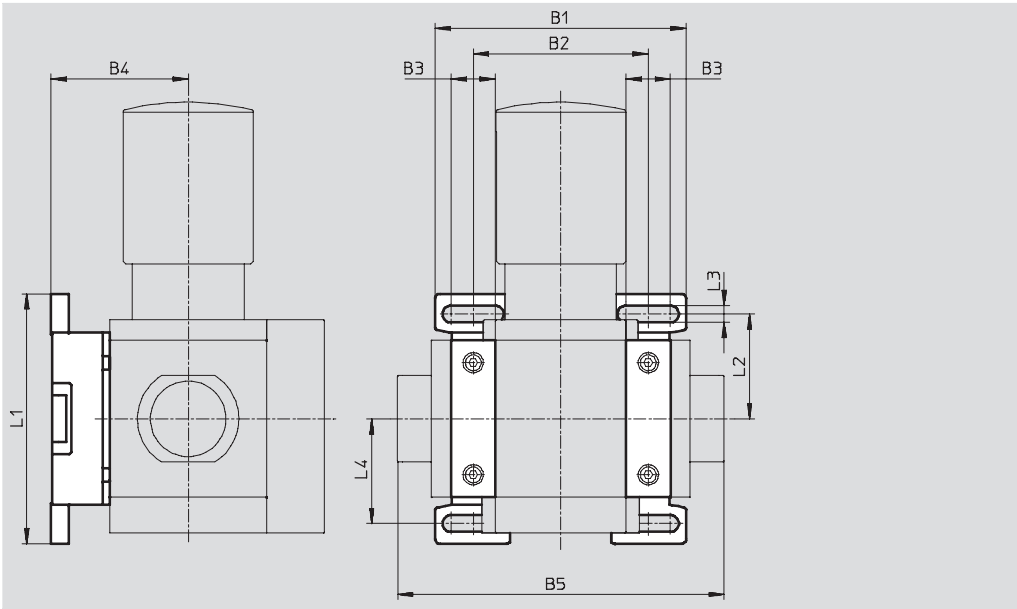
Accessories

Mounting bracket MS6-WPM

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

The distance piece D or 2D (designated in the type code) is included in the scope of delivery and ensures the correct clearance

Material:
Die-cast aluminum



Dimensions and Ordering Data												
B1	B2	B3	B4	B5	L1	L2	L3	L4	Clearance	Weight [g]	Part No.	Type
99	69	17.5	54	129	98.6	41.3	6.6	41.3	62	144	526073	MS6-WPM-D
168	138			198					124	154	532186	MS6-WPM-2D

Body connector MS6-MVM

- For installation of modules with regulating knob pointing downwards

Material:
Die-cast aluminum



Ordering Data		
Size	Part No.	Type
MS6	532801	MS6-MVM

Pre-configured Combination Units MSB6 – Metric Series

Accessories

Filter cartridge MS6-LF...





Ordering Data			
	Filtration grade [μm]	Part No.	Type
Micro-filter cartridge	0.01	532909	MS6-LFM-A
Fine-filter cartridge	1	532910	MS6-LFM-B
Filter cartridge	5	534499	MS6-LFP-C
Filter cartridge	40	534500	MS6-LFP-E
Active carbon filter cartridge	Residual oil content ≤ 0.003 mg/m ³	532911	MS6-LFX

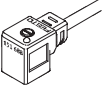
Pre-configured Combination Units MSB6 – Metric Series


Accessories


FESTO


5 Ordering Data – Angled Socket PEV					Technical data → www.festo.com/catalog/pev	
	Description	Operating voltage range	Electrical connection	Switching status display	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	4-pin	Yellow LED	164275	PEV-1/4-WD-LED-230
		≤ 180 V DC				


6 Ordering Data – Plug Socket MSSD					Technical data → www.festo.com/catalog/mssd	
	Description	Operating voltage range	Electrical connection	Type of mounting cable connection	Part No.	Type
	for PEV-1/4-...-OD	≤ 250 V AC/DC	3-pin	Clamping screws	171157	MSSD-C-4P
	for MS6-EE/DE	≤ 250 V AC/DC	3-pin	Clamping screws	151687	MSSD-EB
			4-pin	Insulation displacement technology	192745	MSSD-EB-S-M14

7 Ordering Data – Plug Socket with Cable KMEB					Technical data → www.festo.com/catalog/kmeb	
	Description	Operating voltage range	Switching status display	Cable length [m]	Part No.	Type
	for MS6-EE/DE	24 V DC	LED	2.5	151688	KMEB-1-24-2,5-LED
		24 V DC	LED	5	151689	KMEB-1-24-5-LED
		24 V DC	LED	10	193457	KMEB-1-24-10-LED
		230 V AC	–	2.5	151690	KMEB-1-230AC-2,5
		230 V AC	–	5	151691	KMEB-1-230AC-5

9 Ordering Data – Illuminating Seal MEB-LD				Technical data → www.festo.com/catalog/meb-ld	
	Description	Operating voltage range		Part No.	Type
	for plug socket with cable KMEB and plug socket MSSD-EB	12 ... 24 V DC		151717	MEB-LD-12-24DC
		230 V DC/AC ±10%		151718	MEB-LD-230AC

4 Ordering Data – Silencer U			Technical data → www.festo.com/catalog/u	
	Description	Pneumatic connection	Part No.	Type
	for MS6-EM1/EE	G1/2	6844	U-1/2-B

10 Ordering Data – Padlock LRV5-D				
	Description	Weight [g]	Part No.	Type
	for regulators, filter/regulators and manual on-off valves	120	193786	LRV5-D

Ordering Data – Special Oil OFSW				
	Description	Scope of delivery	Part No.	Type
	for lubricators	1 litre	152811	OFSW-32

Pre-configured Combination Units MSB6N – Inch Series

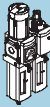






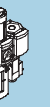


FESTO



Ten different types of pre-configured and assembled combination units are available. They consist of up to six different individual units with options for filtration grade and condensate drain (see table below). Mounting brackets are included. MS Series combination units have a high resistance to corrosion in typical industrial environments and offer high flow rates with compact components.

- Pneumatic connections: 1/4 NPT, 3/8 NPT, 1/2 NPT, (G3/4 NPT with optional port plate)
- Flow rates: 60 ... 180 scfm*
- Supply pressure: 22 ... 294 psi*
- Pressure regulation range: 4.4 ... 176 psi*
- Filtration grade: 5 µm and 40 µm

* Individual combination units will vary depending on selected type and option.

Combination Units											
		MSB6N-FRC	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Unit 9
Consisting of:											
On-off valve (manually actuated)	EM1	–	■	–	■	■	–	■	■	■	–
Filter regulator with pressure gauge, lockable	LFR	■	■	■	■	■	■	■	■	■	–
Pressure regulator with pressure gauge, lockable	LR	–	–	–	–	–	–	–	–	–	■
Filter	LF	–	–	–	–	–	–	–	–	–	■
Lubricator	LOE	■	■	■	■	–	–	–	–	■	■
On-off valve (solenoid actuated)	EE	–	–	■	■	–	■	–	■	–	–
Soft-start valve (pneumatically actuated)	DL	–	–	■	■	–	■	–	■	–	–
Distribution block with pressure switch	FRM	–	■	–	■	–	–	■	■	–	–
Mounting bracket	WP	–	■	■	■	■	■	■	■	■	■
Technical data → Page		522	528	531	535	539	542	546	549	553	556

Note

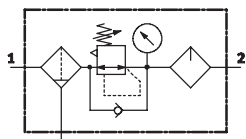
Should you require a custom combination unit, please go to our online catalog at: www.festo.com/catalog/msb6n. Click on the blue basket icon  next to P/N 532307. Then open the shopping basket on the right menu and click on the configuration icon . You can now configure your combination unit.

Pre-configured Combination Units MSB6N-FRC – Inch Series

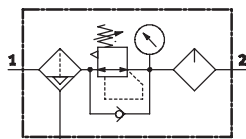
Technical Data

FESTO

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- Filter, regulator and lubricator function in a single unit
- High flow rate and highly efficient removal of contaminants
- Good regulating characteristics with minimal pressure hysteresis
- Setting values are secured by locking the rotary knob
- Lockable rotary knob
- Two pressure regulation ranges: 4.4 ... 103 psi and 7.4 ... 176 psi
- Choice of filter cartridges: 5 µm or 40 µm
- With manual or integrated, fully automatic bowl drain



General Technical Data			
Pneumatic connection 1, 2	1/4 NPT	3/8 NPT	1/2 NPT
Design	Filter regulator with pressure gauge		
	Proportional standard mist lubricator		
Regulating function	With primary pressure compensation		
	With secondary venting		
	With return flow function		
	Output pressure constant		
Type of mounting	Via accessories		
Assembly position	Vertical ±5°		
Filtration grade [µm]	5 (air purity class at the output 3.7.- to DIN ISO 8573-1)		
	40 (air purity class at the output 5.7.- to DIN ISO 8573-1)		
Bowl guard	Plastic bowl guard		
	Metal bowl guard		
Bowl drains	Manual		
	Fully automatic		
Pressure adjustment	Rotary knob with integrated lock		
Pressure regulation range [psi]	4.4 ... 103		
	7.4 ... 176		
Pressure indicator	With pressure gauge		

Pre-configured Combination Units MSB6N-FRC – Inch Series

Technical Data

FESTO

Standard Nominal Flow Rate q_{N1} [scfm]				
Pneumatic connection	1/4 NPT	3/8 NPT	1/2 NPT	
Pressure regulation range 4.4... 103 psi				
Filtration grade	5 µm	70.6	155.3	162.4
	40 µm	74.1	162.4	169.4
Pressure regulation range 7.4... 176 psi				
Filtration grade	5 µm	60.0	120.0	127.1
	40 µm	67.1	123.6	130.6

1) Measured at $p_1 = 147$ psi and $p_2 = 88$ psi, $\Delta p = 15$ psi.

Operating and Environmental Conditions		
Bowl drains	Manual	Fully automatic
Supply pressure [psi]	22 ... 294	22 ... 176
Operating medium	Compressed air	
Ambient temperature [°F]	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

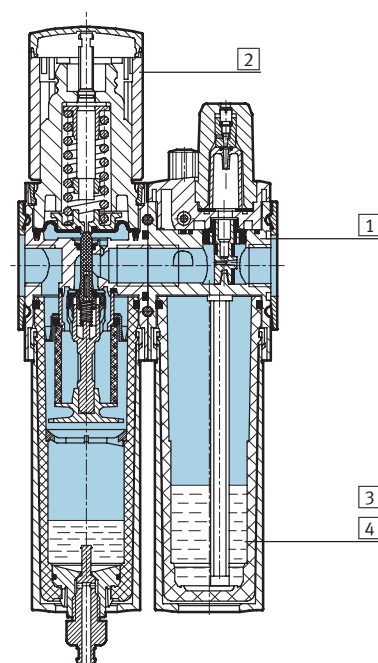
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
With plastic bowl guard	2.99
With metal bowl guard	3.43

- For spare parts go to: www.festo.com/en/spare_parts_service

Materials

Sectional view



Service unit		
1	Body	Die-cast aluminum
2	Regulating knob	Polyamide/polyacetate
3	Plastic bowl guard	Polycarbonate
4	Metal bowl guard	Wrought aluminum alloy
–	Seals	Nitrile rubber

Pre-configured Combination Units MSB6N-FRC – Inch Series

Technical Data

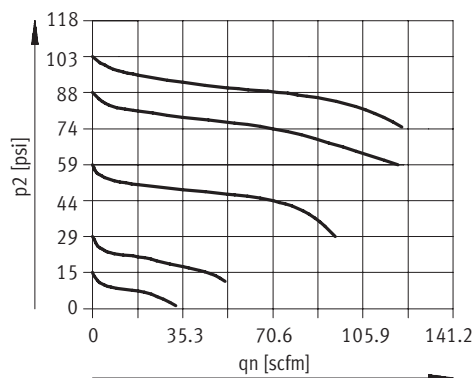
FESTO

Standard Flow Rate q_n as a Function of Output Pressure p_2

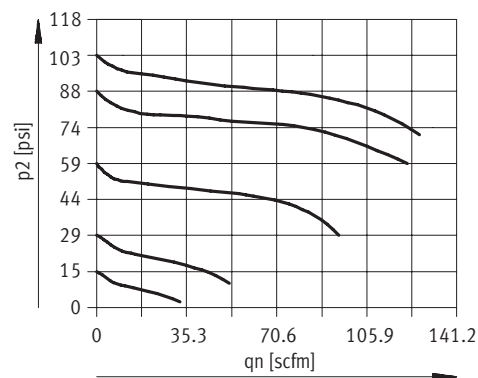
Pressure regulation range 4.4 ... 103 psi Filtration grade 5 μm

MSB6N- $\frac{1}{4}$

Primary pressure $p_1 = 147$ psi

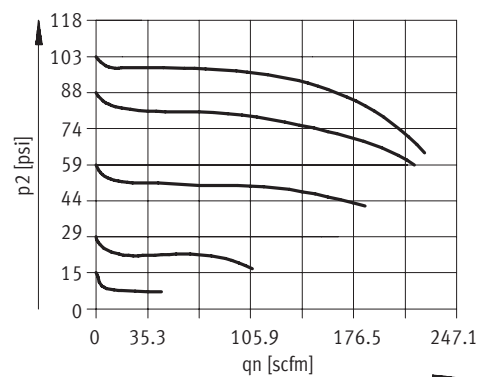
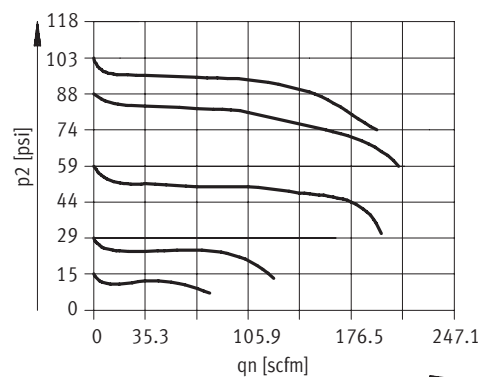


Filtration grade 40 μm



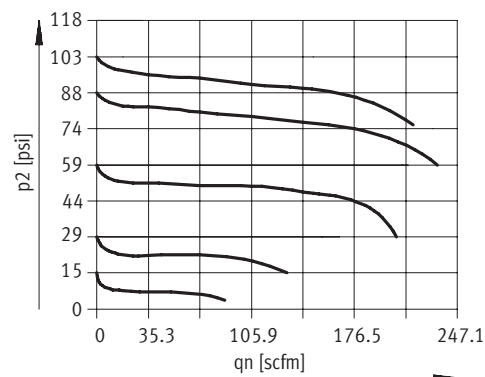
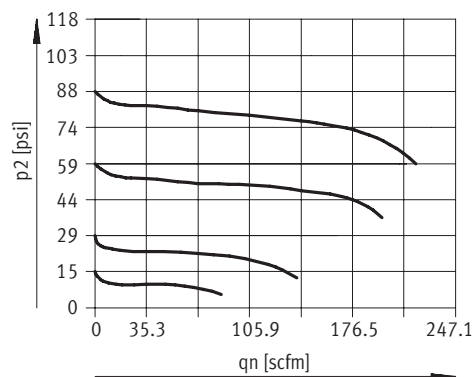
MSB6N- $\frac{3}{8}$

Primary pressure $p_1 = 147$ psi



MSB6N- $\frac{1}{2}$

Primary pressure $p_1 = 147$ psi



Pre-configured Combination Units MSB6N-FRC – Inch Series

Technical Data

FESTO

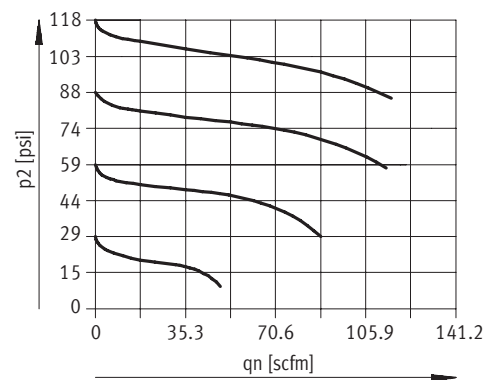
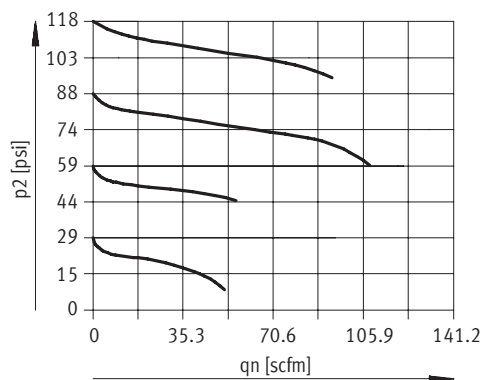
Standard Flow Rate q_n as a Function of Output Pressure p_2

Pressure regulation range 7.4 ... 176 psi Filtration grade 5 μm

Filtration grade 40 μm

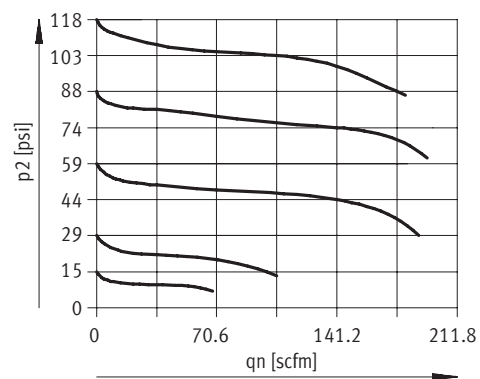
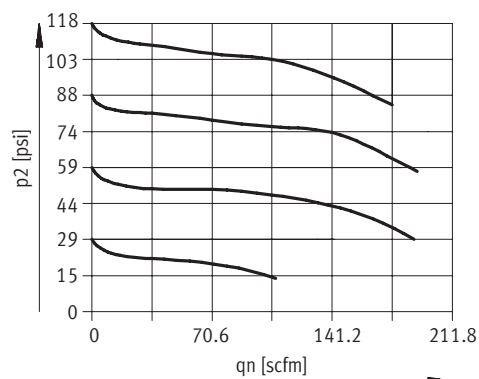
MSB6N- $\frac{1}{4}$

Primary pressure $p_1 = 147$ psi



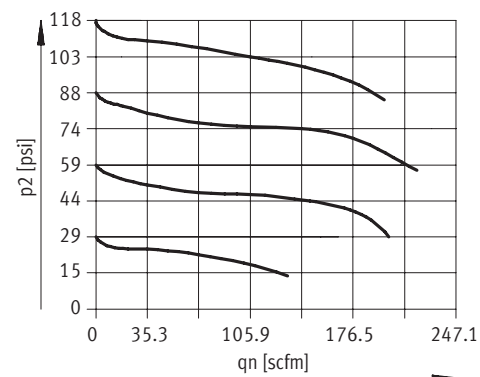
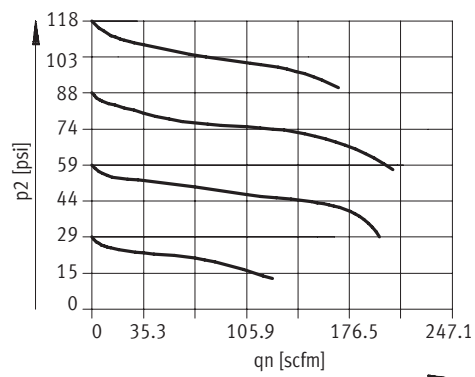
MSB6N- $\frac{3}{8}$

Primary pressure $p_1 = 147$ psi



MSB6N- $\frac{1}{2}$

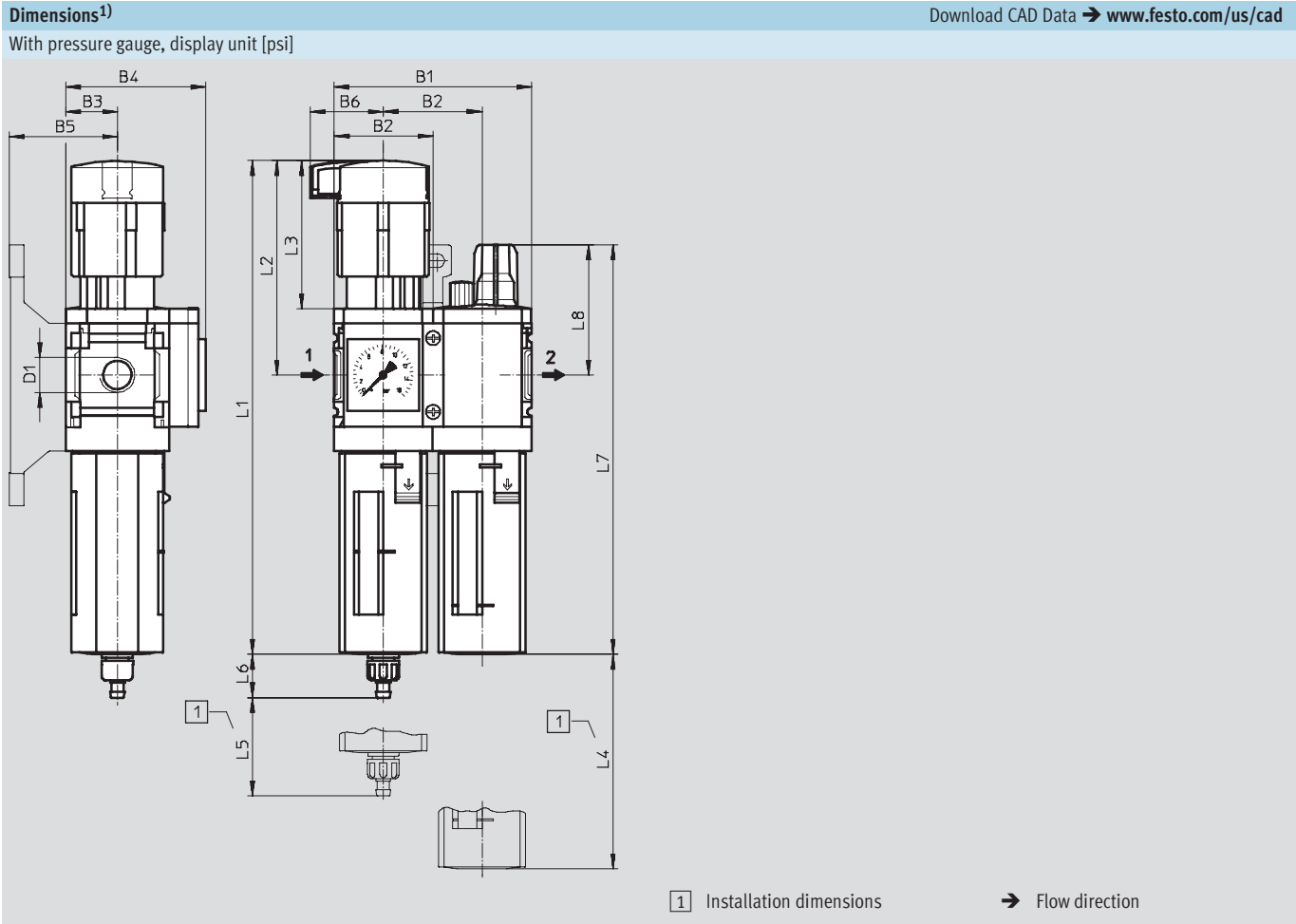
Primary pressure $p_1 = 147$ psi



Pre-configured Combination Units MSB6N-FRC – Inch Series



Dimensional Drawings



Type	B1	B2	B3	B4	B5	B6	D1	L1	L2	L3	L4	L5	L6 Bowl drain		L7	L8
													manual	fully automatic		
MSB6N-1/4	4.88	2.44	1.22	3.03	2.13	1.53	1/4 NPT	11.21	5.30	3.76	5.12	2.68	0.62	0.73	8.48	2.58
MSB6N-3/8							3/8 NPT									
MSB6N-1/2							1/2 NPT									

1) Dimensions are in inches, unless otherwise noted.

Pre-configured Combination Units MSB6N-FRC – Inch Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data							
Pressure regulation range 4.4 ... 103 psi							
Bowl drain	Connection	Filtration grade 5 µm			Filtration grade 40 µm		
		Part No.	Type	LT	Part No.	Type	LT
Plastic bowl guard							
Manual	¼ NPT	534013	MSB6N-¼-FRC3:J7M1	Q	534003	MSB6N-¼-FRC1:J5M1	Q
	⅜ NPT	534037	MSB6N-⅜-FRC3:J7M1	Q	534027	MSB6N-⅜-FRC1:J5M1	Q
	½ NPT	533989	MSB6N-½-FRC3:J7M1	Q	533979	MSB6N-½-FRC1:J5M1	Q
Fully automatic	¼ NPT	534015	MSB6N-¼-FRC4:J8M1	Q	534011	MSB6N-¼-FRC2:J6M1	Q
	⅜ NPT	534039	MSB6N-⅜-FRC4:J8M1	Q	534035	MSB6N-⅜-FRC2:J6M1	Q
	½ NPT	533991	MSB6N-½-FRC4:J8M1	Q	533987	MSB6N-½-FRC2:J6M1	Q

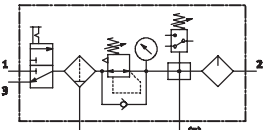
Ordering Data							
Pressure regulation range 7.4 ... 176 psi							
Bowl drain	Connection	Filtration grade 5 µm			Filtration grade 40 µm		
		Part No.	Type	LT	Part No.	Type	LT
Plastic bowl guard							
Manual	1/4 NPT	534021	MSB6N-1/4-FRC7:J3M1	1D	534017	MSB6N-1/4-FRC5:J1M1	1D
	3/8 NPT	534045	MSB6N-3/8-FRC7:J3M1	1D	534041	MSB6N-3/8-FRC5:J1M1	1D
	1/2 NPT	533997	MSB6N-1/2-FRC7:J3M1	1W	533993	MSB6N-1/2-FRC5:J1M1	1W
Fully automatic	1/4 NPT	534023	MSB6N-1/4-FRC8:J4M1	1D	534019	MSB6N-1/4-FRC6:J2M1	1D
	3/8 NPT	534047	MSB6N-3/8-FRC8:J4M1	1D	534043	MSB6N-3/8-FRC6:J2M1	1D
	1/2 NPT	533999	MSB6N-1/2-FRC8:J4M1	1W	533995	MSB6N-1/2-FRC6:J2M1	1W
Metal bowl							
Manual	1/4 NPT	534007	MSB6N-1/4-FRC11:J9M2	Q	534025	MSB6N-1/4-FRC9:J11M2	Q
	3/8 NPT	534031	MSB6N-3/8-FRC11:J9M2	Q	534049	MSB6N-3/8-FRC9:J11M2	Q
	1/2 NPT	533983	MSB6N-1/2-FRC11:J9M2	Q	534001	MSB6N-1/2-FRC9:J11M2	Q
Fully automatic	1/4 NPT	534009	MSB6N-1/4-FRC12:J10M2	Q	534005	MSB6N-1/4-FRC10:J12M2	Q
	3/8 NPT	534033	MSB6N-3/8-FRC12:J10M2	Q	534029	MSB6N-3/8-FRC10:J12M2	Q
	1/2 NPT	533985	MSB6N-1/2-FRC12:J10M2	Q	533981	MSB6N-1/2-FRC10:J12M2	Q

LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

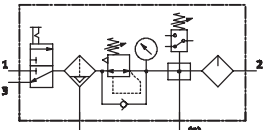
Pre-configured Combination Unit 1 – Inch Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- The unit is vented when switched off
- Electrical pressure monitoring with adjustable switching pressure
- Removal of filtered and unlubricated compressed air at the Distribution block connections



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Distribution block MS...-FRM-Y with pressure switch, without display
- Lubricator MS...-LOE-R
- Mounting bracket MS...-WP

General Technical Data	
Pneumatic connection 1, 2, 3	1/2 NPT
Regulating function	With primary pressure compensation
	With return flow function
	With secondary venting
	Output pressure constant
Type of mounting	Via accessories
Assembly position	Vertical ±5°
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard	Plastic bowl guard
Bowl drain	Manual
	Fully automatic
Pressure adjustment	Rotary knob with detent
	Lockable with accessories
Pressure regulation range [psi]	15 ... 176
Pressure indicator	With pressure gauge

Standard Nominal Flow Rate qnN [scfm]		
Filtration grade	5 µm	113.0
	40 µm	116.5

Pre-configured Combination Unit 1 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [psi]	22 ... 265	22 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°F]	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
Service unit combination	5.10
Mounting bracket	0.15

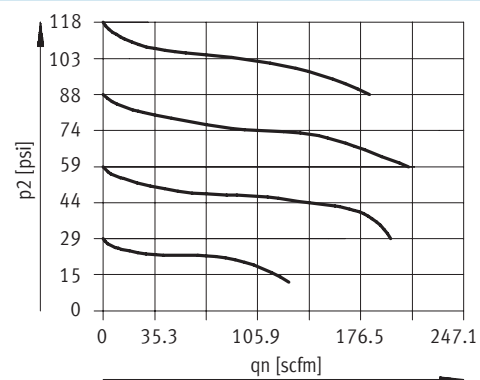
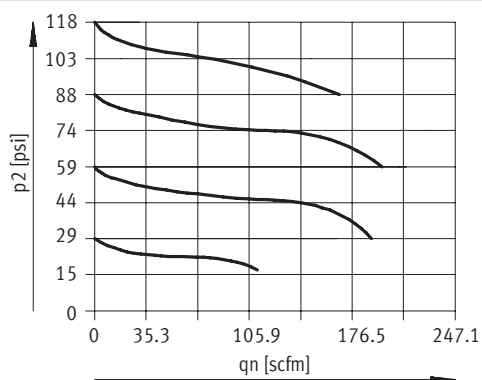
- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range 15 ... 176 psi
MSB6N-1/2

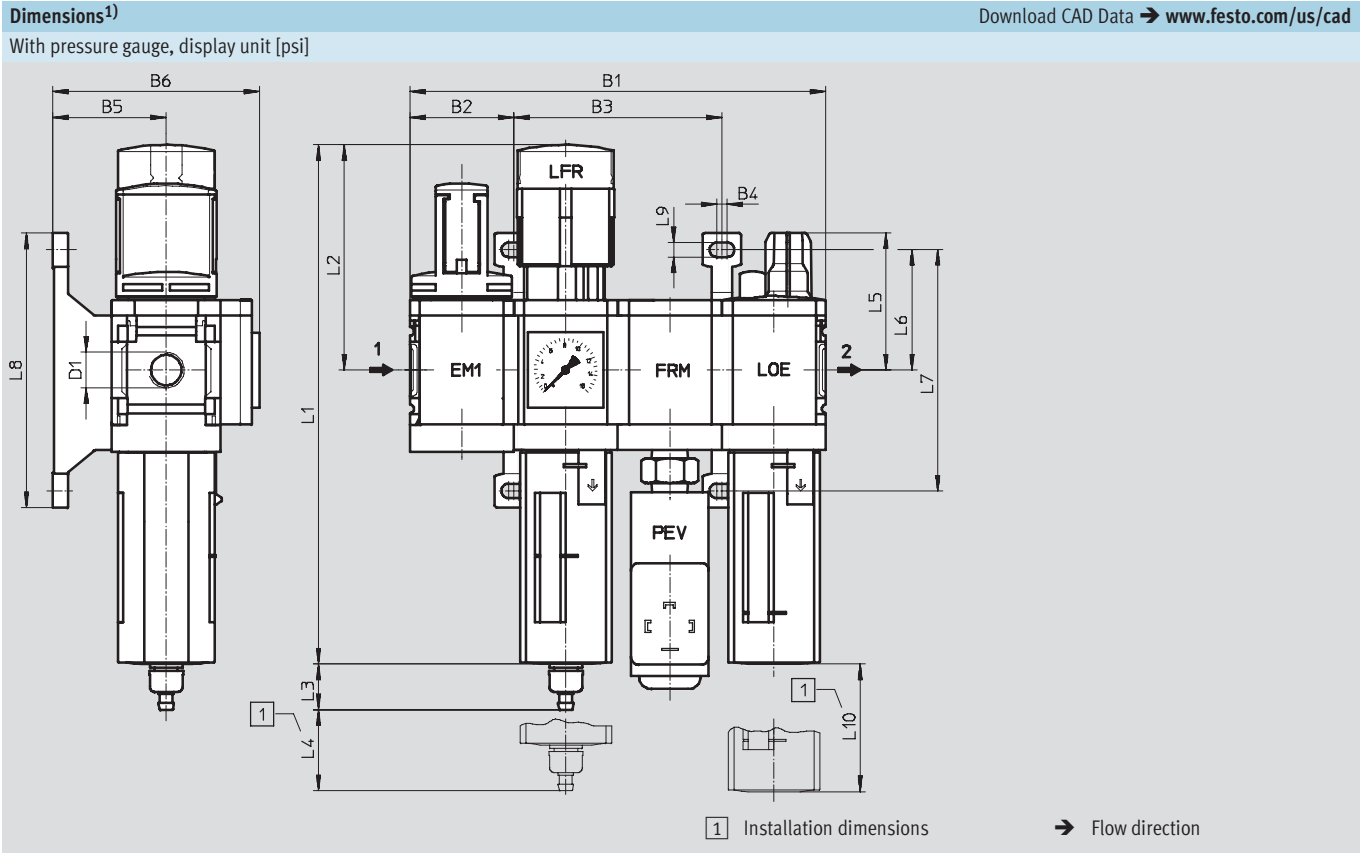
Filtration grade 40 µm

Primary pressure p1 = 147 psi



Pre-configured Combination Unit 1 – Inch Series

Dimensional Drawings, Ordering Data – Pre-configured Products



B1	B2	B3	B4	B5	B6	D1	L1	L2
9.76	2.44	4.88	0.18	2.13	3.94	1/2 NPT	11.22	5.30

L3 Bowl drain		L4	L5	L6	L7	L8	L9	L10
manual	fully automatic							
0.62	0.73	2.68	2.60	2.80	5.59	6.22	0.26	5.12

1) Dimensions are in inches, unless otherwise noted.

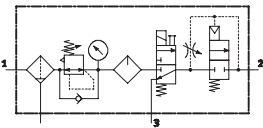
Ordering Data										
Pressure regulation range 15 ... 176 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	1/2 NPT	543585	MSB6N-1/2:C3J3F3M1-WP			Q	543573	MSB6N-1/2:C3J1F3M1-WP		Q
Fully automatic	1/2 NPT	543591	MSB6N-1/2:C3J4F3M1-WP			Q	543579	MSB6N-1/2:C3J2F3M1-WP		Q

LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

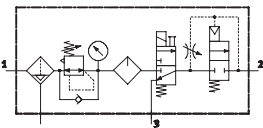
Pre-configured Combination Unit 2 – Inch Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- When supply pressure is closed, quick venting ensures rapid pressure reduction



This combination consists of:

- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3		1/2 NPT
Regulating function		With primary pressure compensation
		With return flow function
		With secondary venting
		Output pressure constant
Type of mounting		Via accessories
Assembly position		Vertical ±5°
Filtration grade	[µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
		40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard		Plastic bowl guard
Bowl drain		Manual
		Fully automatic
Pressure adjustment		Rotary knob with detent
		Lockable with accessories
Pressure regulation range	[psi]	59 ... 132 (with on-off valve MS...-EE-10V24)
	[psi]	59 ... 176 (with on-off valve MS...-EE-V24)
Pressure indicator		With pressure gauge
Coil characteristics	[V DC]	12
Supply voltage	[V DC]	24

Standard Nominal Flow Rate qnN [scfm]		
Filtration grade	5 µm	67.1
	40 µm	70.6

Pre-configured Combination Unit 2 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions				
	Pressure regulation range 59 ... 132 psi		Pressure regulation range 59 ... 176 psi	
Bowl drain	Manual	Fully automatic	Manual	Fully automatic
Supply pressure [psi]	66 ... 147	66 ... 147	66 ... 265	66 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm			
Ambient temperature [°F]	14 ... 122	41 ... 122	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 122	41 ... 122	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
Service unit combination	6.00
Mounting bracket	0.15

- For spare parts go to: www.festo.com/en/spare_parts_service

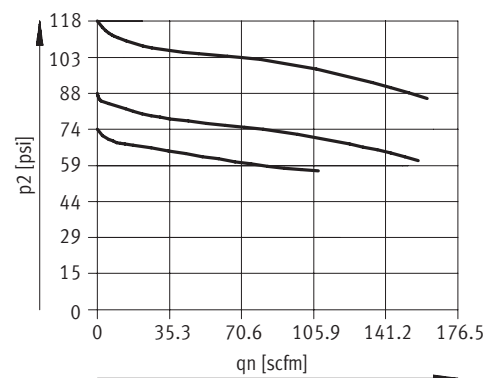
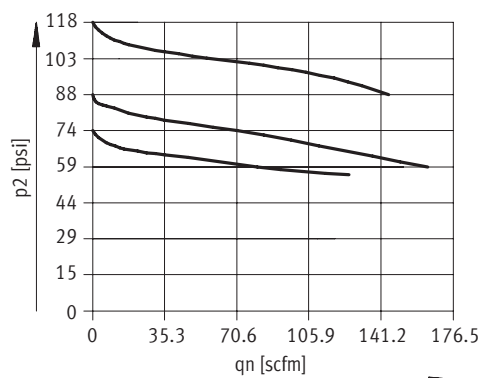
Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range
59 ... 132 psi / 59 ... 176 psi
MSB6N-1/2

Filtration grade 5 µm

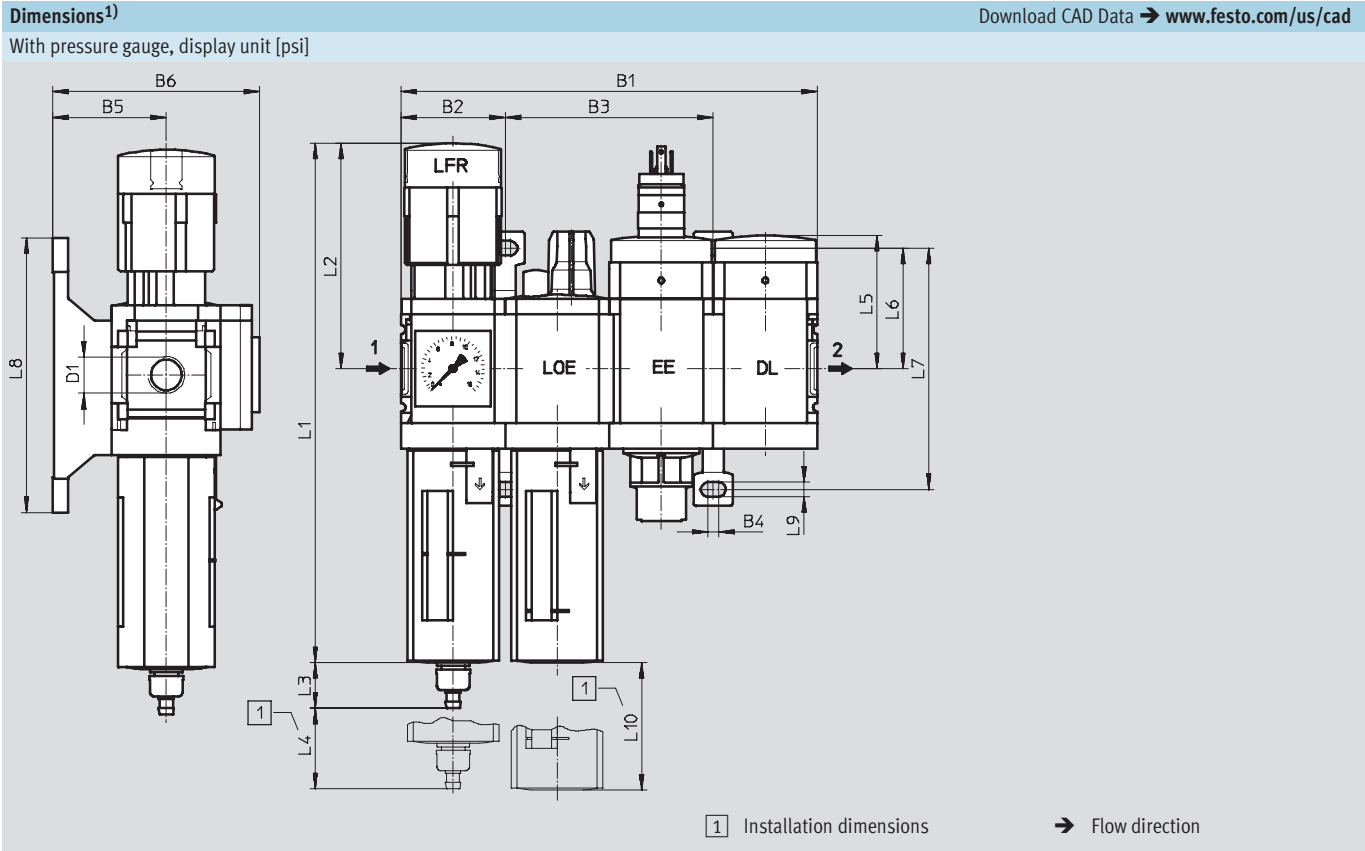
Filtration grade 40 µm

Primary pressure p1 = 147 psi



Pre-configured Combination Unit 2 – Inch Series

Dimensional Drawings



B1		B2		B3		B4		B5		B6		D1		L1		L2	
9.76		2.44		4.88		0.18		2.13		3.94		½ NPT		11.22		5.30	

L3		L4		L5		L6		L7		L8		L9		L10	
Bowl drain															
manual	fully automatic														
0.62	0.73	2.68		2.80		2.80		5.59		6.22		0.26		5.12	

1) Dimensions are in inches, unless otherwise noted.

Pre-configured Combination Unit 2 – Inch Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data										
Pressure regulation range 59 ... 132 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	1/2 NPT	550512	MSB6N-1/2:J3M1D7A1-WP			Q	550508	MSB6N-1/2:J1M1D7A1-WP		Q
Fully automatic	1/2 NPT	550514	MSB6N-1/2:J4M1D7A1-WP			Q	550510	MSB6N-1/2:J2M1D7A1-WP		Q

Ordering Data										
Pressure regulation range 59 ... 176 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	1½ NPT	541476	MSB6N-1½:J3M1D1A1-WP			1W	541472	MSB6N-1½:J1M1D1A1-WP		1W
Fully automatic	1½ NPT	541478	MSB6N-1½:J4M1D1A1-WP			1W	541474	MSB6N-1½:J2M1D1A1-WP		1W

LT = Lead time

1D typically ships same day/next day

1W typically ships within 1 week

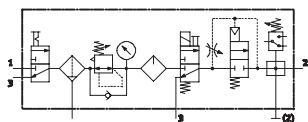
Q request a quote for lead time

Pre-configured Combination Unit 3 – Inch Series

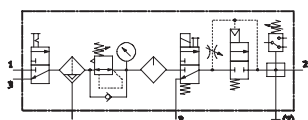
Technical Data

FESTO

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- To shut-off and vent the following device or the system
- Electrical pressure monitoring with adjustable switching pressure



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Distribution block MS...-FRM-Y with pressure switch, without display
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3	1/2 NPT	
Regulating function	With primary pressure compensation	
	With return flow function	
	With secondary venting	
	Output pressure constant	
Type of mounting	Via accessories	
Assembly position	Vertical ±5°	
Filtration grade	[µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
		40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard	Plastic bowl guard	
Bowl drain	Manual	
	Fully automatic	
Pressure adjustment	Rotary knob with detent	
	Lockable with accessories	
Pressure regulation range	[psi]	59 ... 132 (with on-off valve MS...-EE-10V24)
	[psi]	59 ... 176 (with on-off valve MS...-EE-V24)
Pressure indicator	With pressure gauge	
Coil characteristics	[V DC]	12
Supply voltage	[V DC]	24

Standard Nominal Flow Rate q _N [scfm]		
Filtration grade	5 µm	74.1
	40 µm	81.2

Pre-configured Combination Unit 3 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions				
	Pressure regulation range 59 ... 132 psi		Pressure regulation range 59 ... 176 psi	
Bowl drain	Manual	Fully automatic	Manual	Fully automatic
Supply pressure [psi]	66 ... 147	66 ... 147	66 ... 265	66 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm			
Ambient temperature [°F]	14 ... 122	41 ... 122	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 122	41 ... 122	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
Service unit combination	8.00
Mounting bracket	0.15

- For spare parts go to: www.festo.com/en/spare_parts_service

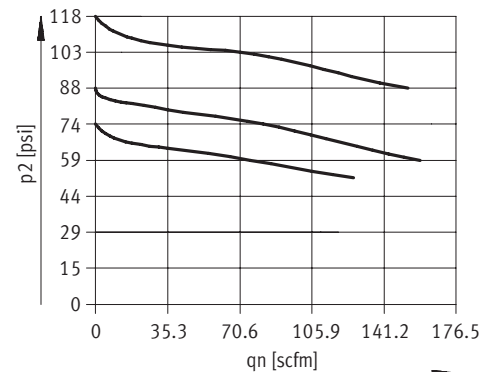
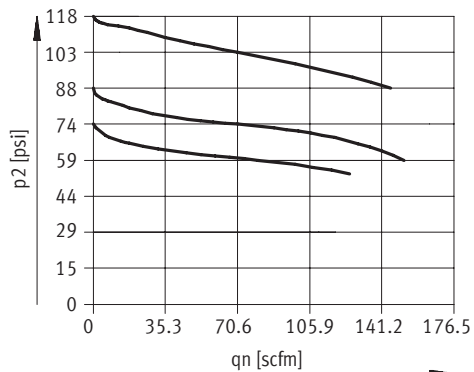
Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range
59 ... 132 psi / 59 ... 176 psi
MSB6N-1/2

Filtration grade 5 µm

Filtration grade 40 µm

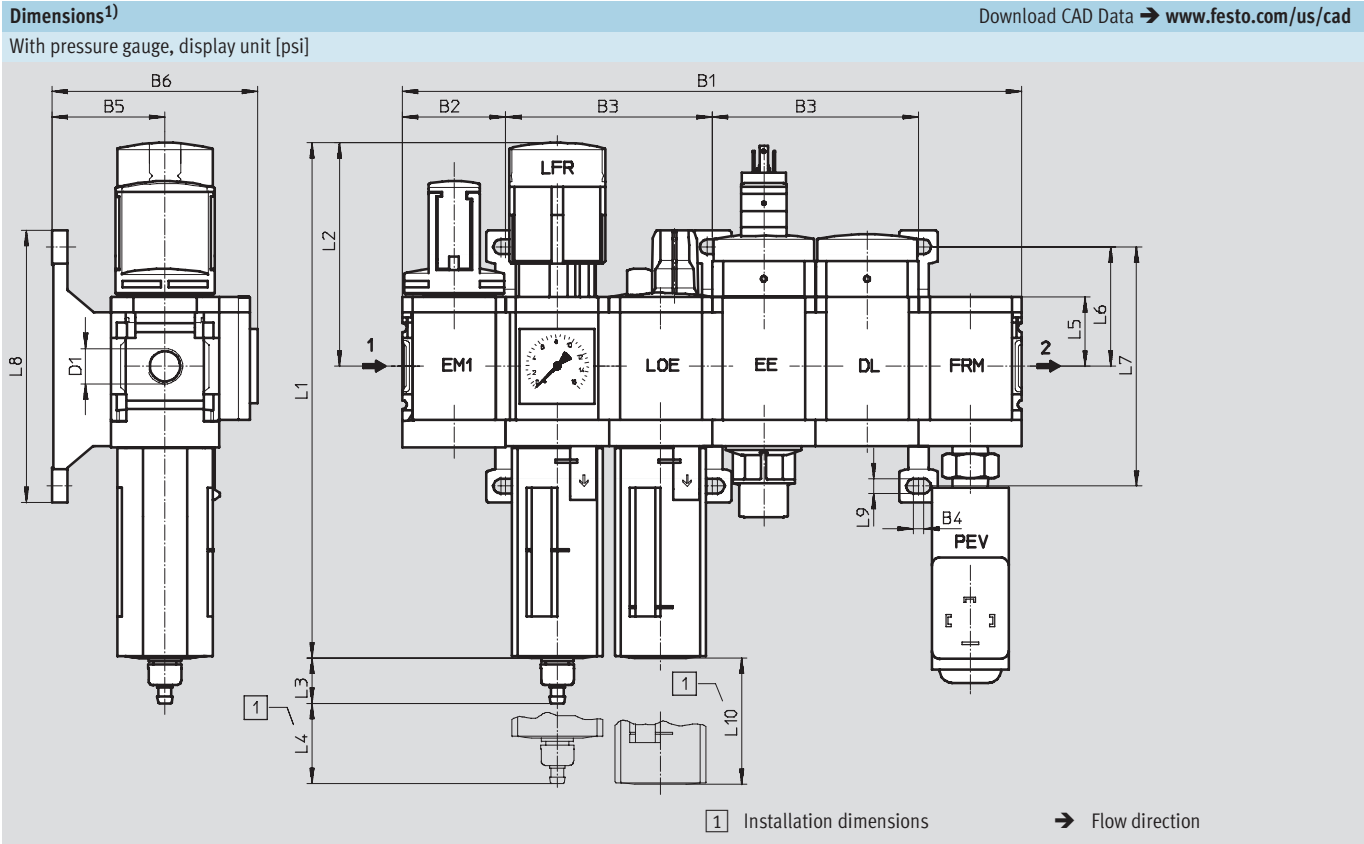
Primary pressure p1 = 147 psi



Pre-configured Combination Unit 3 – Inch Series

Dimensional Drawings

FESTO



B1	B2	B3	B4	B5	B6	D1	L1	L2
14.65	2.44	4.88	0.18	2.13	3.94	1/2 NPT	11.22	5.30

L3 Bowl drain		L4	L5	L6	L7	L8	L9	L10
manual	fully automatic							
0.62	0.73	2.68	1.54	2.80	5.59	6.22	0.26	5.12

1) Dimensions are in inches, unless otherwise noted.

Pre-configured Combination Unit 3 – Inch Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data										
Pressure regulation range 59 ... 132 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	1/2 NPT	550504	MSB6N-1/2:C3J3M1D7A1F3-WP			Q	550500	MSB6N-1/2:C3J1M1D7A1F3-WP		Q
Fully automatic	1/2 NPT	550506	MSB6N-1/2:C3J4M1D7A1F3-WP			Q	550502	MSB6N-1/2:C3J2M1D7A1F3-WP		Q

Ordering Data										
Pressure regulation range 59 ... 176 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	½ NPT	543587	MSB6N-½:C3J3M1D1A1F3-WP			Q		543575	MSB6N-½:C3J1M1D1A1F3-WP	Q
Fully automatic	½ NPT	543593	MSB6N-½:C3J4M1D1A1F3-WP			Q		543581	MSB6N-½:C3J2M1D1A1F3-WP	Q

LT = Lead time

1D typically ships same day/next day

1W typically ships within 1 week

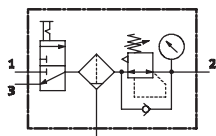
Q request a quote for lead time

Pre-configured Combination Unit 4 – Inch Series

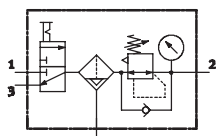
Technical Data

FESTO

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3	1/2 NPT	
Regulating function	With primary pressure compensation	
	With return flow function	
	With secondary venting	
	Output pressure constant	
Type of mounting	Via accessories	
Assembly position	Vertical ±5°	
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)	
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)	
Bowl guard	Plastic bowl guard	
Bowl drain	Manual	
	Fully automatic	
Pressure adjustment	Rotary knob with detent	
	Lockable with accessories	
Pressure regulation range [psi]	4.4 ... 176	
Pressure indicator	With pressure gauge	

Standard Nominal Flow Rate q _N [scfm]		
Filtration grade	5 µm	169.4
	40 µm	180.0

Pre-configured Combination Unit 4 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [psi]	12 ... 265	22 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°F]	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
Service unit combination	2.20
Mounting bracket	0.15

- For spare parts go to: www.festo.com/en/spare_parts_service

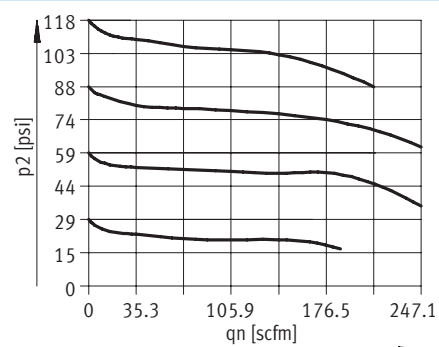
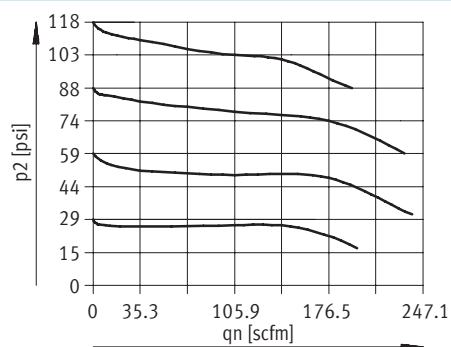
Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range 7.4 ... 176 psi
MSB6N-1/2

Filtration grade 5 µm

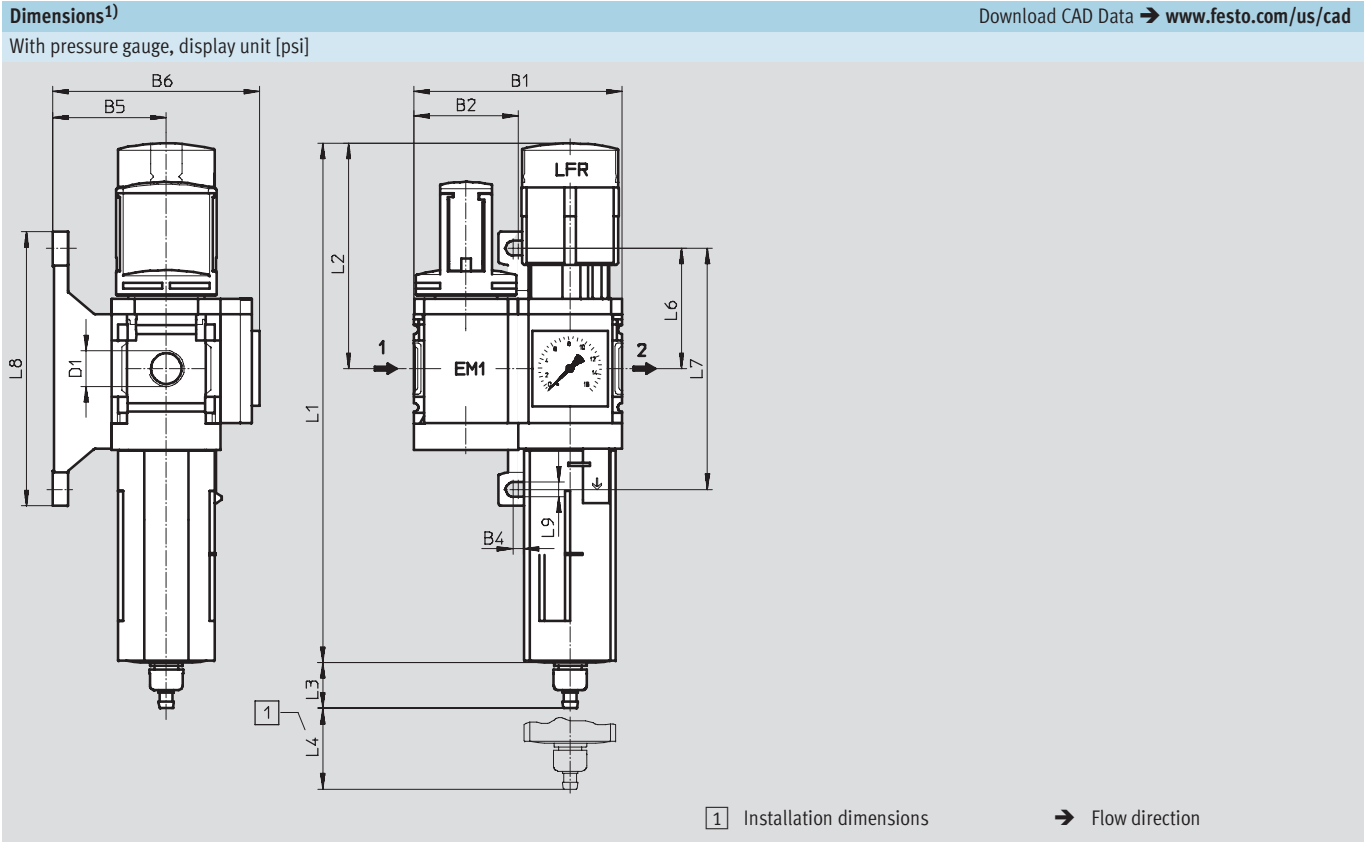
Filtration grade 40 µm

Primary pressure p1 = 147 psi



Pre-configured Combination Unit 4 – Inch Series

Dimensional Drawings, Ordering Data – Pre-configured Products



B1	B2	B4	B5	B6	D1	L1	L2
4.88	2.44	0.18	2.13	3.94	1/2 NPT	11.22	5.30

L3	L4	L6	L7	L8	L9
Bowl drain					
manual	fully automatic				
0.62	0.73	2.68	2.80	5.59	6.22

1) Dimensions are in inches, unless otherwise noted.

Ordering Data									
Pressure regulation range 7.4 ... 176 psi									
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm			
		Part No.	Type		LT	Part No.	Type		LT
Plastic bowl guard									
Manual	1/2 NPT	543589	MSB6N-1/2:C3J3-WP		Q	543577	MSB6N-1/2:C3J1-WP		Q
Fully automatic	1/2 NPT	543595	MSB6N-1/2:C3J4-WP		Q	543583	MSB6N-1/2:C3J2-WP		Q

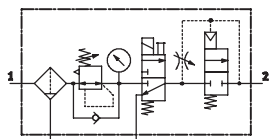
LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

Pre-configured Combination Unit 5 – Inch Series

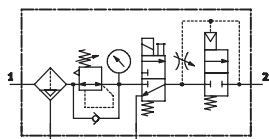
Technical Data

FESTO

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and unlubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- When supply pressure is closed, quick venting ensures rapid pressure reduction



This combination consists of:

- Filter regulator MS...-LFR-D7
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3		1/2 NPT
Regulating function		With primary pressure compensation
		With return flow function
		With secondary venting
		Output pressure constant
Type of mounting		Via accessories
Assembly position		Vertical $\pm 5^\circ$
Filtration grade	[μm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
		40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard		Plastic bowl guard
Bowl drain		Manual
		Fully automatic
Pressure adjustment		Rotary knob with detent
		Lockable with accessories
Pressure regulation range	[psi]	59 ... 132 (with on-off valve MS...-EE-10V24)
	[psi]	59 ... 176 (with on-off valve MS...-EE-V24)
Pressure indicator		With pressure gauge
Coil characteristics	[V DC]	12
Supply voltage	[V DC]	24

Standard Nominal Flow Rate qnN [scfm]		
Filtration grade	5 μm	105.9
	40 μm	109.4

Pre-configured Combination Unit 5 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions				
	Pressure regulation range 59 ... 132 psi		Pressure regulation range 59 ... 176 psi	
Bowl drain	Manual	Fully automatic	Manual	Fully automatic
Supply pressure [psi]	66 ... 147	66 ... 147	66 ... 265	66 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm			
Ambient temperature [°F]	14 ... 122	41 ... 122	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 122	41 ... 122	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
Service unit combination	4.80
Mounting bracket	0.15

- For spare parts go to: www.festo.com/en/spare_parts_service

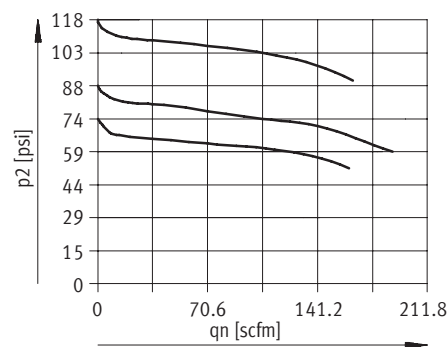
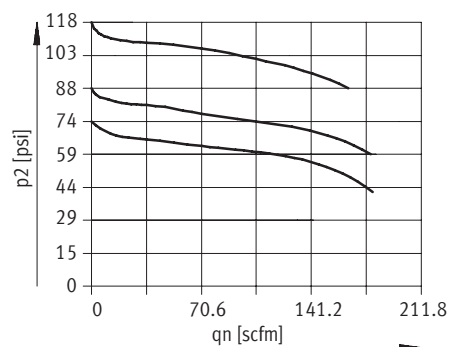
Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range
59 ... 132 psi / 59... 176 psi
MSB6N-1/2

Filtration grade 5 µm

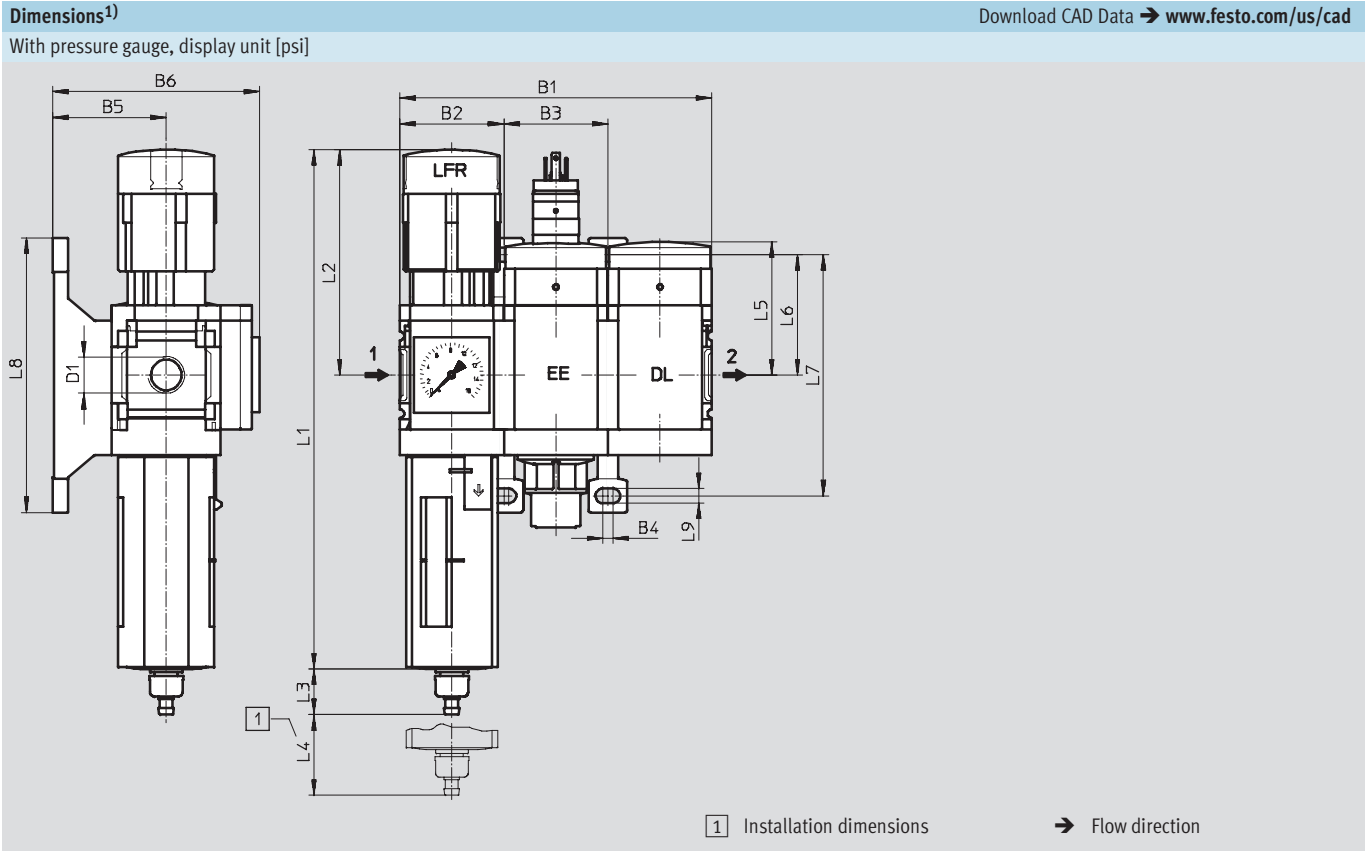
Filtration grade 40 µm

Primary pressure p1 = 147 psi



Pre-configured Combination Unit 5 – Inch Series

Dimensional Drawings



B1		B2		B3		B4		B5		B6		D1		L1		L2	
7.32		2.44		2.44		0.18		2.13		3.94		½ NPT		11.22		5.30	

L3		L4		L5		L6		L7		L8		L9	
Bowl drain													
manual	fully automatic												
0.62	0.73	2.68		2.80		2.80		5.59		6.22		0.26	

1) Dimensions are in inches, unless otherwise noted.

Pre-configured Combination Unit 5 – Inch Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data										
Pressure regulation range 59 ... 132 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	1/2 NPT	550511	MSB6N-1/2:J3D7A1-WP			Q	550507	MSB6N-1/2:J1D7A1-WP		Q
Fully automatic	1/2 NPT	550513	MSB6N-1/2:J4D7A1-WP			Q	550509	MSB6N-1/2:J2D7A1-WP		Q

Ordering Data										
Pressure regulation range 59 ... 176 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	1½ NPT	541475	MSB6N-1½:J3D1A1-WP			1W	541471	MSB6N-1½:J1D1A1-WP		1W
Fully automatic	1½ NPT	541477	MSB6N-1½:J4D1A1-WP			1W	541473	MSB6N-1½:J2D1A1-WP		1W

LT = Lead time

1D typically ships same day/next day

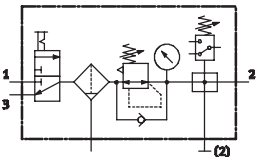
1W typically ships within 1 week

Q request a quote for lead time

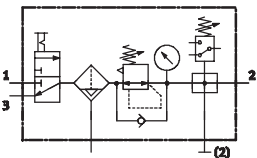
Pre-configured Combination Unit 6 – Inch Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Electrical pressure monitoring with adjustable switching pressure



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Distribution block MS...-FRM-Y with pressure switch, without display
- Mounting bracket MS...-WP

General Technical Data	
Pneumatic connection 1, 2, 3	1/2 NPT
Regulating function	With primary pressure compensation
	With return flow function
	With secondary venting
	Output pressure constant
Type of mounting	Via accessories
Assembly position	Vertical ±5°
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)
Bowl guard	Plastic bowl guard
Bowl drain	Manual
	Fully automatic
Pressure adjustment	Rotary knob with detent
	Lockable with accessories
Pressure regulation range [psi]	7.4 ... 176
Pressure indicator	With pressure gauge

Standard Nominal Flow Rate qnN [scfm]		
Filtration grade	5 µm	155.3
	40 µm	158.9

Pre-configured Combination Unit 6 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [psi]	12 ... 265	22 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°F]	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
Service unit combination	4.00
Mounting bracket	0.15

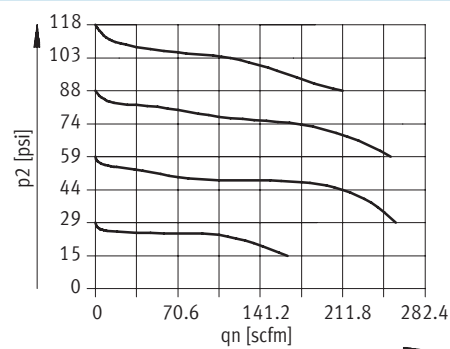
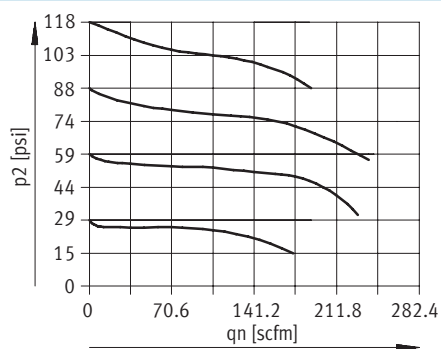
- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range 7.4 ... 176 psi
MSB6N-1/2

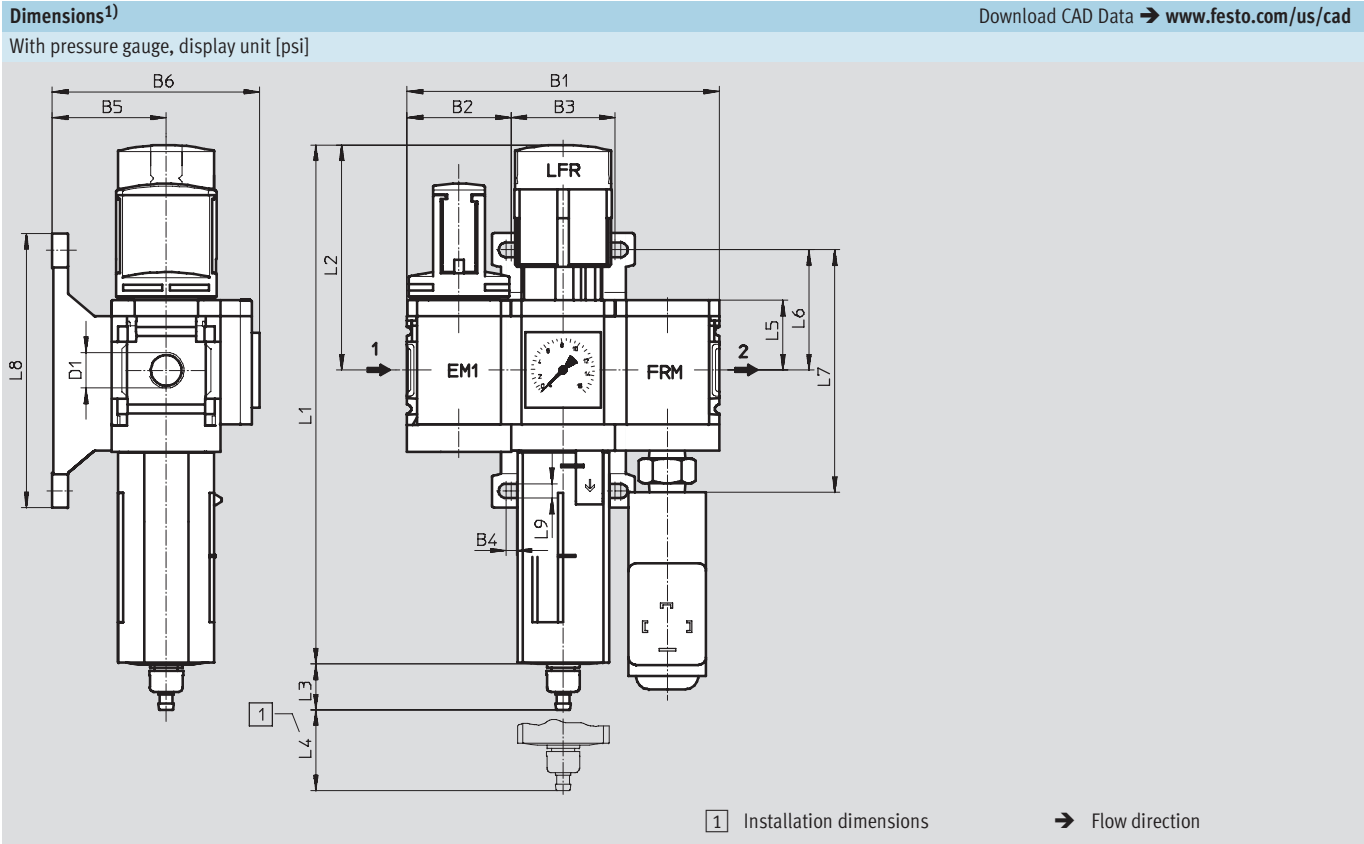
Filtration grade 40 µm

Primary pressure p1 = 147 psi



Pre-configured Combination Unit 6 – Inch Series

Dimensional Drawings, Ordering Data – Pre-configured Products



B1	B2	B3	B4	B5	B6	D1	L1	L2
7.32	2.44	2.44	0.18	2.13	3.94	1/2 NPT	11.22	5.30

L3 Bowl drain		L4	L5	L6	L7	L8	L9
manual	fully automatic						
0.62	0.73	2.68	1.54	2.80	5.59	6.22	0.26

1) Dimensions are in inches, unless otherwise noted.

Ordering Data									
Pressure regulation range 7.4 ... 176 psi									
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm			
		Part No.	Type		LT	Part No.	Type		LT
Plastic bowl guard									
Manual	1/2 NPT	543586	MSB6N-1/2:C3J3F3-WP		Q	543574	MSB6N-1/2:C3J1F3-WP		Q
Fully automatic	1/2 NPT	543592	MSB6N-1/2:C3J4F3-WP		Q	543580	MSB6N-1/2:C3J2F3-WP		Q

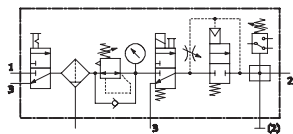
LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

Pre-configured Combination Unit 7 – Inch Series

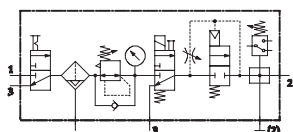
Technical Data

FESTO

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and unlubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range
- Gradual pressure build-up prevents sudden, unpredictable movements
- To shut-off and vent the following device or the system
- Electrical pressure monitoring with adjustable switching pressure



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- On-off valve MS...-EE-10V24 or MS...-EE-V24 solenoid actuated
- Soft-start valve MS...-DL pneumatically actuated
- Distribution block MS...-FRM-Y with pressure switch, without display
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3	1/2 NPT	
Regulating function	With primary pressure compensation	
	With return flow function	
	With secondary venting	
	Output pressure constant	
Type of mounting	Via accessories	
Assembly position	Vertical ±5°	
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)	
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)	
Bowl guard	Plastic bowl guard	
Bowl drain	Manual	
	Fully automatic	
Pressure adjustment	Rotary knob with detent	
	Lockable with accessories	
Pressure regulation range	[psi]	59 ... 132 (with on-off valve MS...-EE-10V24)
	[psi]	59 ... 176 (with on-off valve MS...-EE-V24)
Pressure indicator	With pressure gauge	
Coil characteristics	[V DC]	12
Supply voltage	[V DC]	24

Standard Nominal Flow Rate q _N [scfm]		
Filtration grade	5 µm	105.9
	40 µm	109.4

Pre-configured Combination Unit 7 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions				
	Pressure regulation range 59 ... 132 psi		Pressure regulation range 59 ... 176 psi	
Bowl drain	Manual	Fully automatic	Manual	Fully automatic
Supply pressure [psi]	66 ... 147	66 ... 147	66 ... 265	66 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm			
Ambient temperature [°F]	14 ... 122	41 ... 122	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 122	41 ... 122	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2			

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
Service unit combination	7.00
Mounting bracket	0.15

- For spare parts go to: www.festo.com/en/spare_parts_service

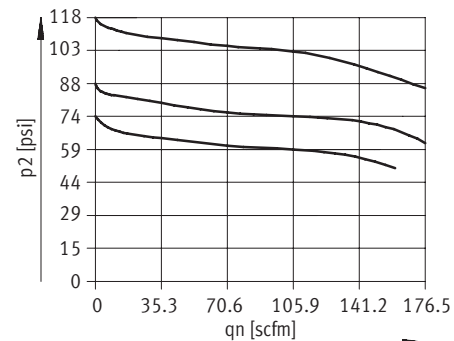
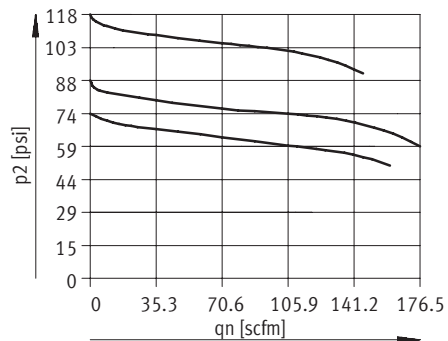
Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range
59 ... 132 psi / 59 ... 176 psi
MSB6N-1/2

Filtration grade 5 µm

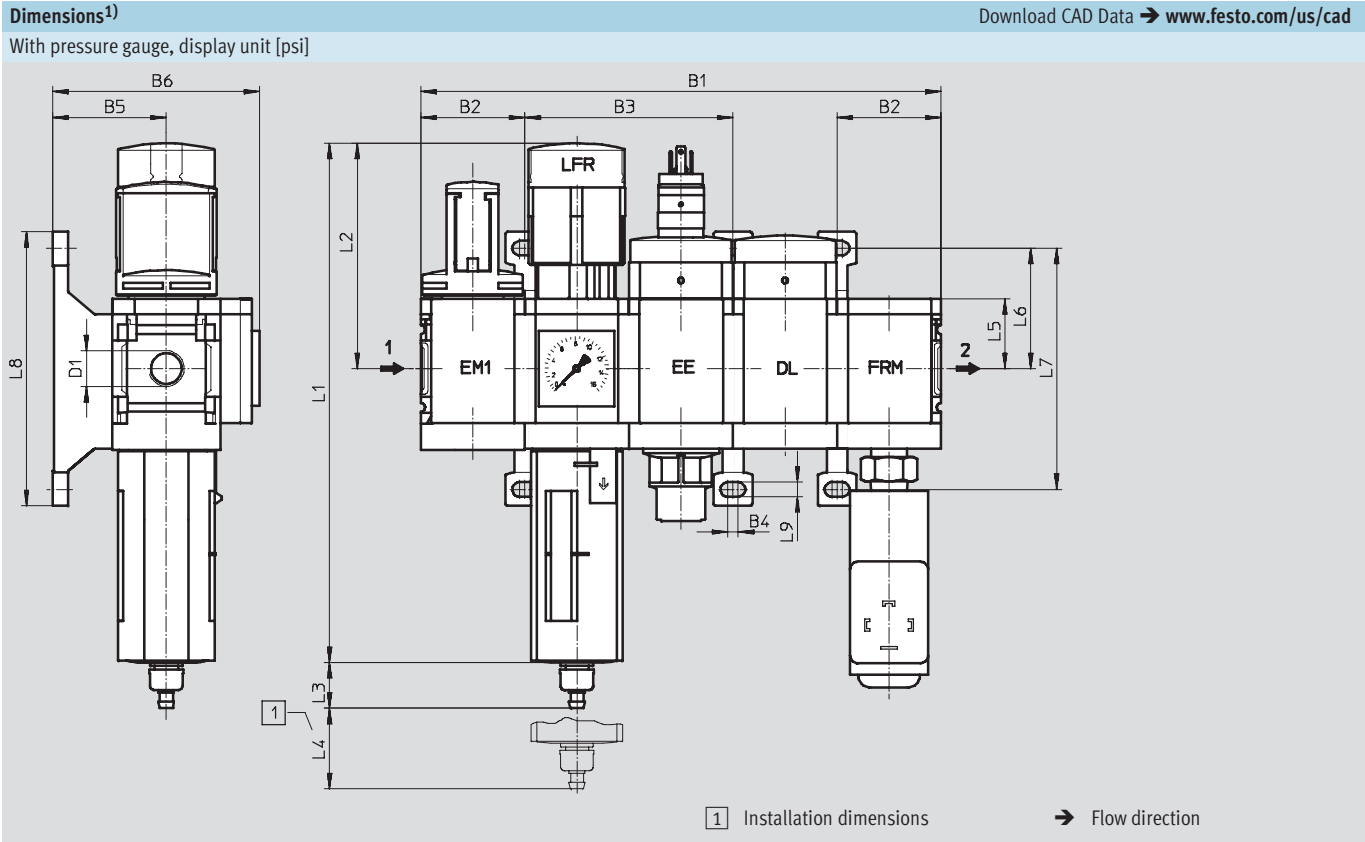
Filtration grade 40 µm

Primary pressure p1 = 147 psi



Pre-configured Combination Unit 7 – Inch Series

Dimensional Drawings



B1		B2		B3		B4		B5		B6		D1		L1		L2	
12.20		2.44		4.88		0.18		2.13		3.94		1/2 NPT		11.22		5.30	

L3		L4		L5		L6		L7		L8		L9	
Bowl drain													
manual	fully automatic												
0.62	0.73	2.68		1.54		2.80		5.59		6.22		0.26	

1) Dimensions are in inches, unless otherwise noted.

Pre-configured Combination Unit 7 – Inch Series

Ordering Data – Pre-configured Products

FESTO

Ordering Data										
Pressure regulation range 59 ... 132 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	½ NPT	550503	MSB6N-½:C3J3D7A1F3-WP			Q	550499	MSB6N-½:C3J1D7A1F3-WP		Q
Fully automatic	½ NPT	550505	MSB6N-½:C3J4D7A1F3-WP			Q	550501	MSB6N-½:C3J2D7A1F3-WP		Q

Ordering Data										
Pressure regulation range 59 ... 176 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	½ NPT	543584	MSB6N-½:C3J3D1A1F3-WP			Q	543572	MSB6N-½:C3J1D1A1F3-WP		Q
Fully automatic	½ NPT	543590	MSB6N-½:C3J4D1A1F3-WP			Q	543578	MSB6N-½:C3J2D1A1F3-WP		Q

LT = Lead time

1D typically ships same day/next day

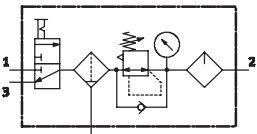
1W typically ships within 1 week

Q request a quote for lead time

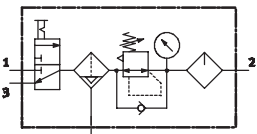
Pre-configured Combination Unit 8 – Inch Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Supply pressure can be opened and closed
- Output pressure is infinitely adjustable within the pressure regulation range



This combination consists of:

- On-off valve MS...-EM1 manually actuated
- Filter regulator MS...-LFR-D7
- Lubricator MS...-LOE-R
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2, 3	1/2 NPT	
Regulating function	With primary pressure compensation	
	With return flow function	
	With secondary venting	
	Output pressure constant	
Type of mounting	Via accessories	
Assembly position	Vertical ±5°	
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)	
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)	
Bowl guard	Plastic bowl guard	
Bowl drain	Manual	
	Fully automatic	
Pressure adjustment	Rotary knob with detent	
	Lockable with accessories	
Pressure regulation range [psi]	15 ... 176	
Pressure indicator	With pressure gauge	

Standard Nominal Flow Rate q _N [scfm]		
Filtration grade	5 µm	105.9
	40 µm	109.4

Pre-configured Combination Unit 8 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [psi]	22... 265	22 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°F]	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
Service unit combination	3.50
Mounting bracket	0.15

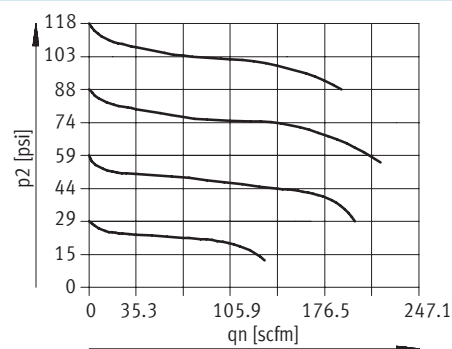
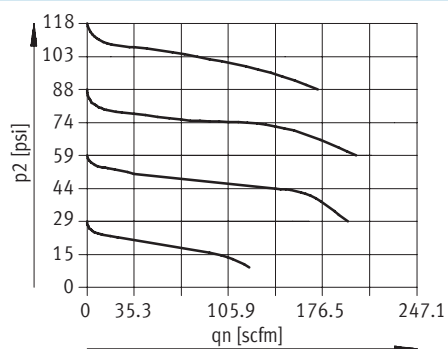
- For spare parts go to: www.festo.com/en/spare_parts_service

Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range 15 ... 176 psi
MSB6N-1/2

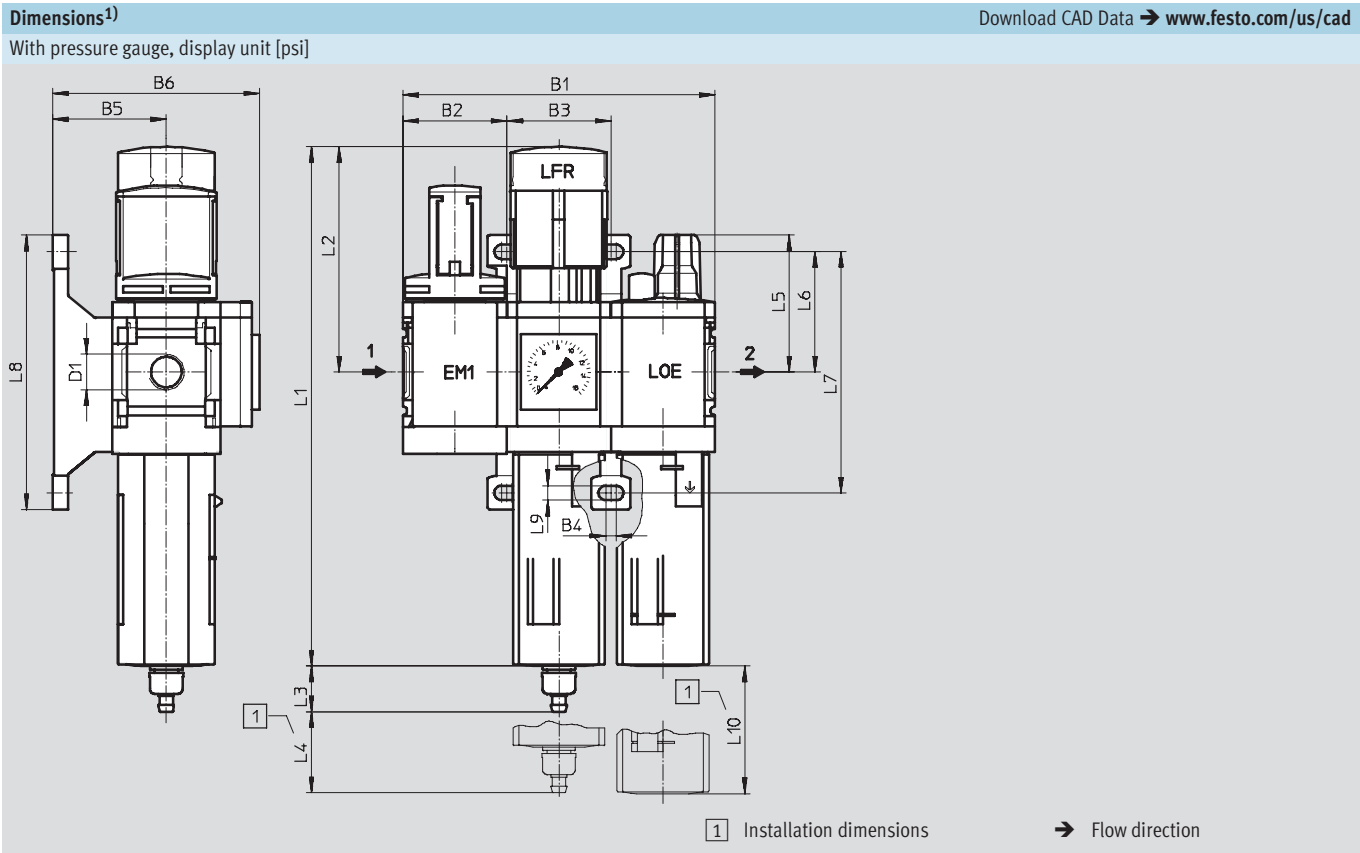
Filtration grade 40 µm

Primary pressure p1 = 147 psi



Pre-configured Combination Unit 8 – Inch Series

Dimensional Drawings, Ordering Data – Pre-configured Products



B1	B2	B3	B4	B5	B6	D1	L1	L2
7.32	2.44	2.44	0.18	2.13	3.94	½ NPT	11.22	5.30

L3	L4	L5	L6	L7	L8	L9	L10
Bowl drain							
manual	fully automatic						
0.62	0.73	2.68	2.60	2.80	5.59	6.22	0.26
							5.12

1) Dimensions are in inches, unless otherwise noted.

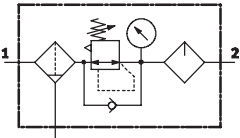
Ordering Data										
Pressure regulation range 15 ... 176 psi										
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm				
		Part No.	Type		LT	Part No.	Type		LT	
Plastic bowl guard										
Manual	½ NPT	543588	MSB6N-½:C3J3M1-WP			Q	543576	MSB6N-½:C3J1M1-WP		Q
Fully automatic	½ NPT	543594	MSB6N-½:C3J4M1-WP			Q	543582	MSB6N-½:C3J2M1-WP		Q

LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

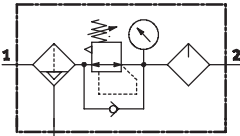
Pre-configured Combination Unit 9 – Inch Series

Technical Data

ISO Symbol



With manual bowl drain



With fully automatic bowl drain

- For filtered and lubricated compressed air
- Output pressure is infinitely adjustable within the pressure regulation range



This combination consists of:

- Filter MS...-LF
- Pressure regulator MS...-LR
- Lubricator MS...-LOE
- Mounting bracket MS...-WP

General Technical Data		
Pneumatic connection 1, 2	1/2 NPT	
Type of mounting	Via accessories	
Assembly position	Vertical ±5°	
Filtration grade [µm]	5 (air purity class at the output 3.7.– to DIN ISO 8573-1)	
	40 (air purity class at the output 5.7.– to DIN ISO 8573-1)	
Bowl guard	Plastic bowl guard	
Bowl drain	Manual	
	Fully automatic	
Pressure adjustment	Rotary knob with detent	
	Lockable with accessories	
Pressure regulation range N3 [psi]	15 ... 176	
Pressure indicator	With pressure gauge	

Standard Nominal Flow Rate qnN [scfm]		
Filtration grade	5 µm	123.6
	40 µm	123.6

Pre-configured Combination Unit 9 – Inch Series

Technical Data

FESTO

Operating and Environmental Conditions		
Bowl drain	Manual	Fully automatic
Supply pressure [psi]	22 ... 265	22 ... 176
Operating medium	Filtered compressed air, lubricated or unlubricated, filtration grade 40 µm	
Ambient temperature [°F]	14 ... 140	41 ... 140
Temperature of medium [°F]	14 ... 140	41 ... 140
Storage temperature [°F]	14 ... 140	14 ... 140
Corrosion resistance CRC ¹⁾	2	

1) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Weights [lb]	
With plastic bowl guard	4.00
Mounting bracket	0.15

- For spare parts go to: www.festo.com/en/spare_parts_service

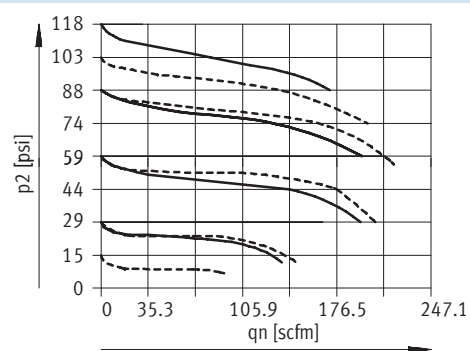
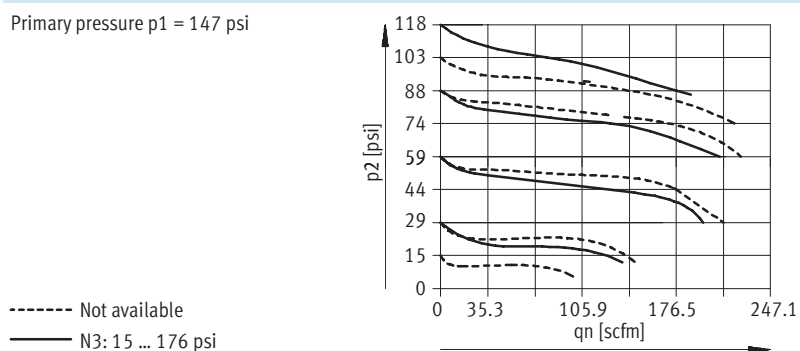
Standard Flow Rate qn as a Function of Output Pressure p2

Pressure regulation range N3
MSB6N-1/2

Filtration grade 5 µm

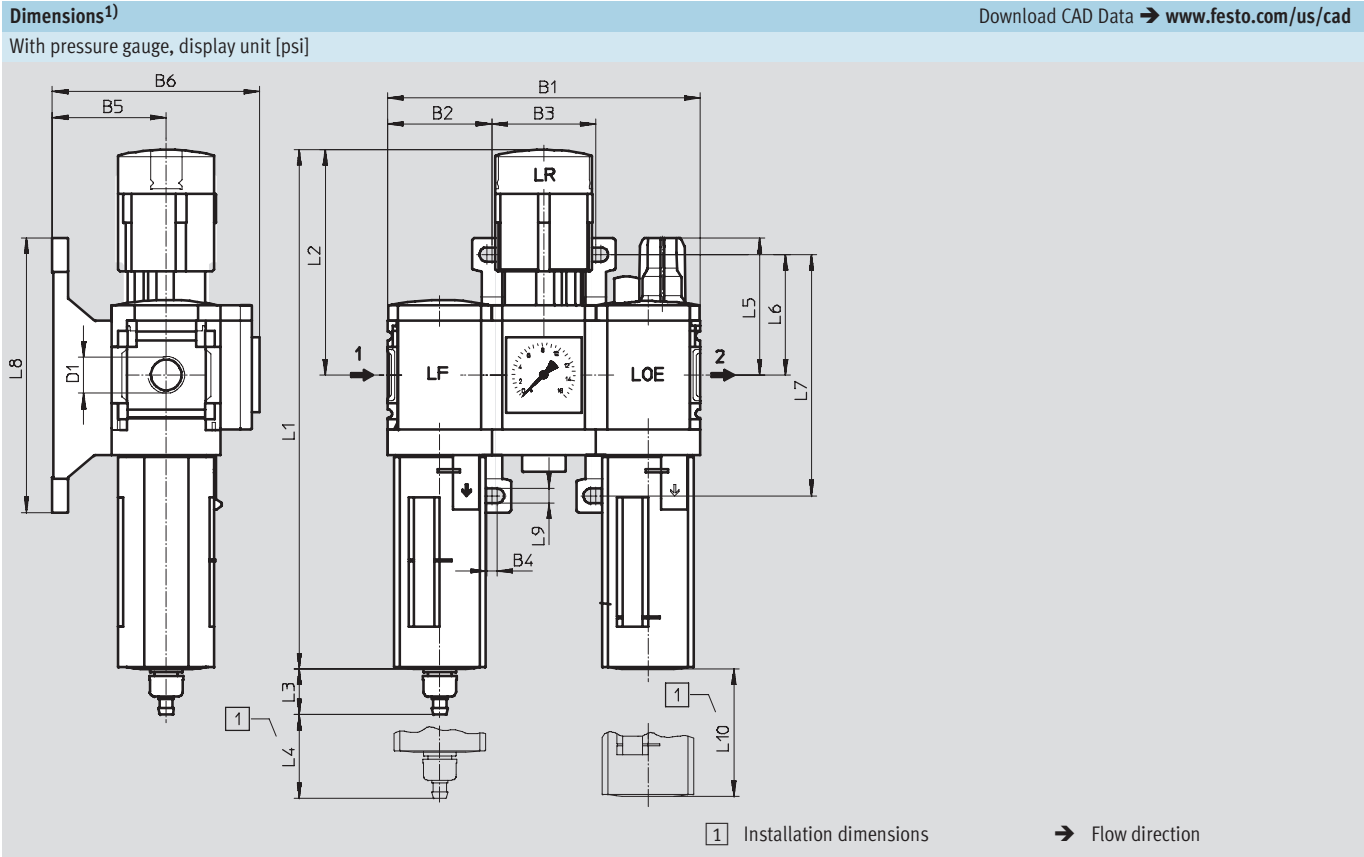
Filtration grade 40 µm

Primary pressure p1 = 147 psi



Pre-configured Combination Unit 9 – Inch Series

Dimensional Drawings, Ordering Data – Pre-configured Products



B1	B2	B3	B4	B5	B6	D1	L1	L2
7.32	2.44	2.44	0.18	2.13	3.94	½ NPT	11.22	5.30

L3 Bowl drain		L4	L5	L6	L7	L8	L9	L10
manual	fully automatic							
0.62	0.73	2.68	2.60	2.80	5.59	6.22	0.26	5.12

1) Dimensions are in inches, unless otherwise noted.

Ordering Data									
Pressure regulation range 15 ... 176 psi									
Bowl drain	Connection	Filtration grade 5 µm				Filtration grade 40 µm			
		Part No.	Type		LT	Part No.	Type		LT
Plastic bowl guard									
Manual	½ NPT	541469	MSB6N-½:H3N3M1-WP		1W	541468	MSB6N-½:H2N3M1-WP		1W
Fully automatic	½ NPT	541470	MSB6N-½:H4N3M1-WP		1W	541467	MSB6N-½:H1N3M1-WP		1W

LT = Lead time 1D typically ships same day/next day 1W typically ships within 1 week Q request a quote for lead time

Pre-configured Combination Units MSB6N – Inch Series

Accessories Overview

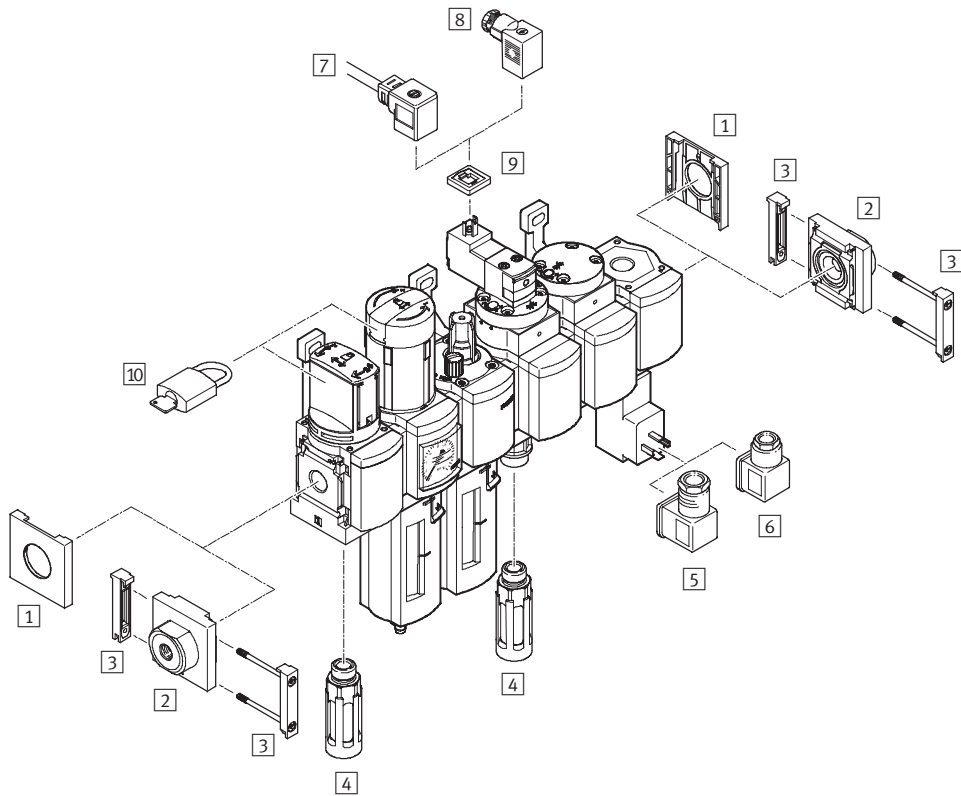
Mounting Attachments and Accessories

Note

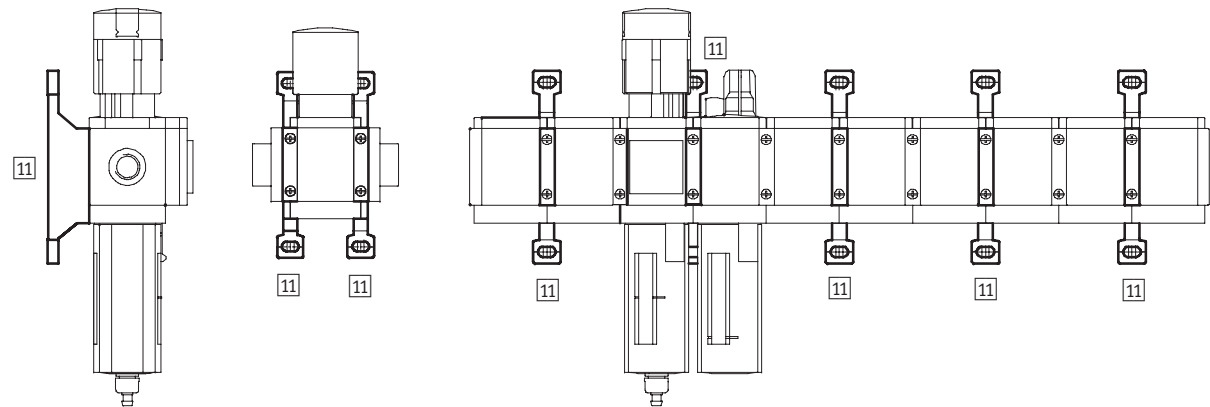
The choice of accessories depends on the selected combination unit.

Range of accessories

→ See the accessories pages of the individual devices



Single unit and combination unit mounting brackets.



Pre-configured Combination Units MSB6N – Inch Series

Accessories Overview

FESTO

Mounting Attachments and Accessories		→ Page
1	Cover cap MS6-END	561
2	Port plate MS6N-AQ...	562
3	Body connector MS6-MV	562
4	Silencer U	567
5	Angled socket PEV-¼-WD-LED	567
6	Plug socket MSSD-C-4P	567
7	Plug socket with cable KMEB	567
8	Plug socket MSSD-EB	567
9	Illuminating seal MEB-LD	567
10	Padlock LRVS-D	567
11	Mounting bracket (for service unit MSB-FRC) MS6-WP/WPB/WPM	563

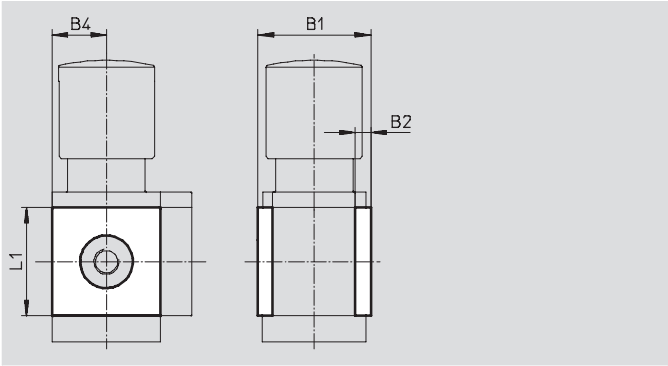
Pre-configured Combination Units MSB6N – Inch Series

Accessories

1 Cover cap MS6-END

- Can be used to cover the body sides of the first and last module if port plates are not used.

Material:
Reinforced polyamide
Free of copper and PTFE



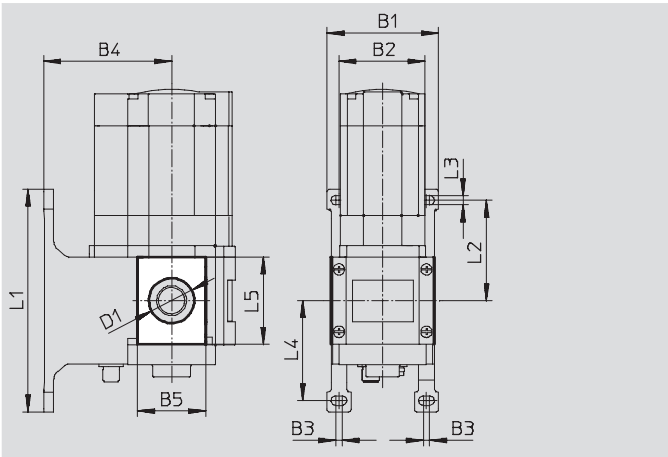
Dimensions and Ordering Data						
B1	B2	B4	L1	Part No.	Type	
2.64	0.31	1.22	2.44	538780	MS6-END	

Mounting plate MS6-AEND

(order code: WBE; scope of delivery includes mounting bracket MS6-WPB)

- In combination with mounting bracket MS-WP or MS-WPB for mounting an individual unit on a wall with body thread

Material:
Reinforced polyamide
Conforms to RoHS
Free of copper and PTFE



Dimensions and ordering data															
B1	B2	B3	B4		B5	D1 Ø	L1	L2	L3	L4	L5	CRC ¹⁾	Weight [lb]	Part No.	Type
			WP	WPB											
3.11	2.44	0.18	2.13	3.56	1.91	1.26	6.22	2.80	0.26	2.80	2.44	2	0.03	535 408	MS6-AEND

1) Corrosion resistance class 2 according to Festo standard 940 070
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

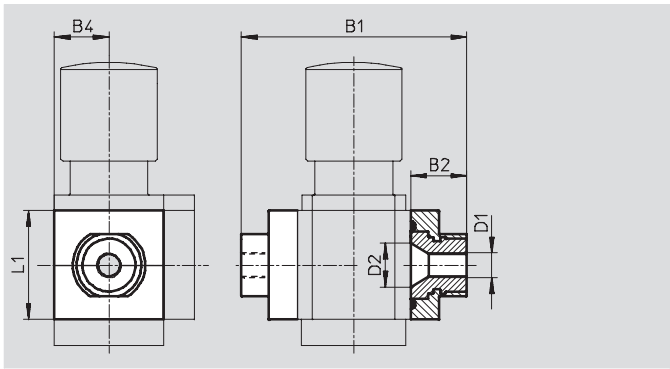
Pre-configured Combination Units MSB6N – Inch Series

Accessories

2 Port plate MS6N-AQ...

- Adapter for pneumatic connection
- MS6-AGE for implementing threaded connection 3/4 NPT

Material:
Aluminum



Dimensions and Ordering Data								
B1	B2	B4	D1	D2	L1	Weight [lb]	Part No.	Type
4.53	1.04	1.22	1/4 NPT	0.94	2.44	0.60	526076	MS6N-AQN
			3/8 NPT				526077	MS6N-AQP
			1/2 NPT				526078	MS6N-AQR
			3/4 NPT				526079	MS6N-AQS

3 Body connector MS...-MV

- For connecting modules

Material:
Stainless steel/polyacetate



Ordering Data		
Weight [lb]	Part No.	Type
0.11	532799	MS6-MV

Pre-configured Combination Units MSB6N – Inch Series

Accessories

11 Mounting Bracket MS6-WP...

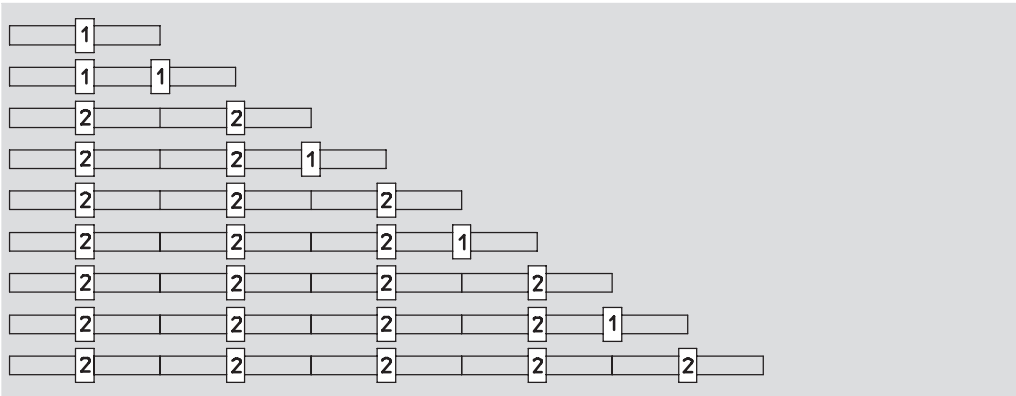
Suggested placement of wall mounting brackets when mounting air preparation combinations

1 unit: 2.44 in with WP, WPB
2.715 in with WPM-D

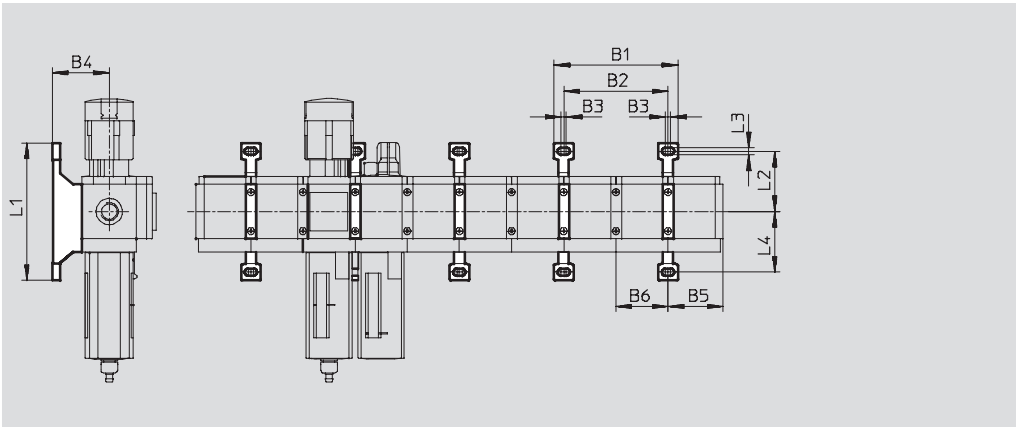
2 units: 4.88 in with WP, WPB
5.43 in with WPM-D

- 1 Mounting bracket WP, WPB or WPM-D
- 2 Mounting bracket WP, WPB or WPM-2D

Number of units
1 2 3 4 5 6 7 8 9 10



Mounting dimensions



Type	B1	B2	B3	B4	B5	B6	L1	L2	L3	L4
MS6-WP	5.55	4.88	0.18	2.13	2.54	2.44	6.22	2.80	0.26	2.80
MS6-WPB				3.56						
MS6-WPM-...D	6.61	5.43	0.69	2.13	2.58	2.72	3.88	1.63		1.63

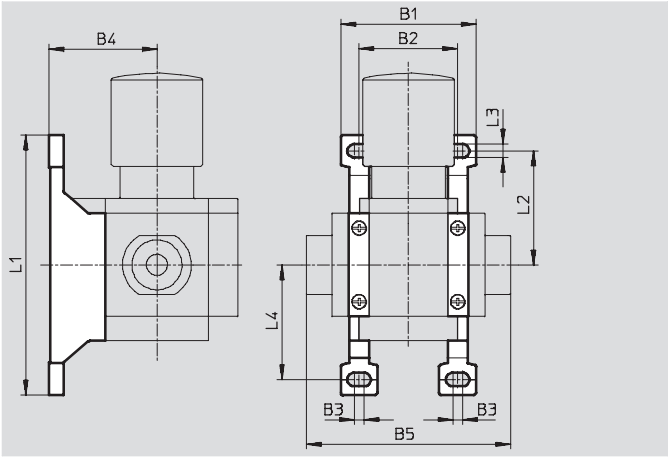
Pre-configured Combination Units MSB6N – Inch Series

Accessories

Mounting bracket MS6-WP

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with body thread on a wall
- For pressure regulator LRB with angled outlet block B... at rear

Material:
Die-cast aluminum

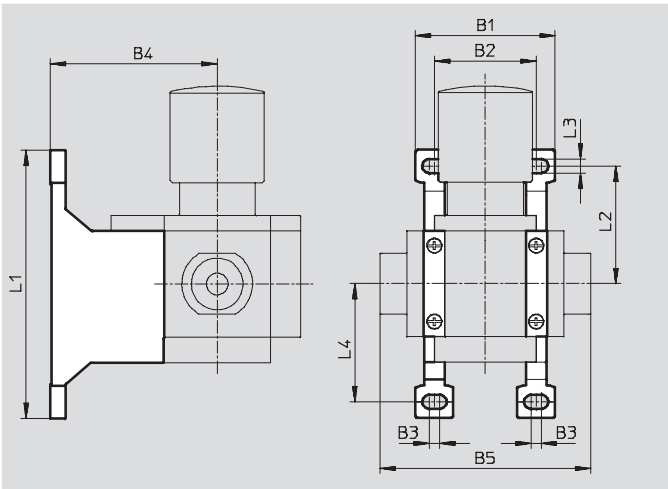


Dimensions and Ordering Data										Part No.	Type
B1	B2	B3	B4	B5	L1	L2	L3	L4	Weight [lb]		
3.11	2.44	0.18	2.13	4.53	6.22	2.80	0.26	2.80	0.15	532195	MS6-WP

Mounting bracket MS6-WPB

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- In combination with mounting plate MS-AEND or for mounting an individual unit with direct thread on a wall
- Provides large wall gap for pressure regulator

Material:
Die-cast aluminum



Dimensions and Ordering Data										Part No.	Type
B1	B2	B3	B4	B5	L1	L2	L3	L4	Weight [lb]		
3.11	2.44	0.18	3.56	4.53	6.22	2.80	0.26	2.80	0.23	526074	MS6-WPB

Pre-configured Combination Units MSB6N – Inch Series

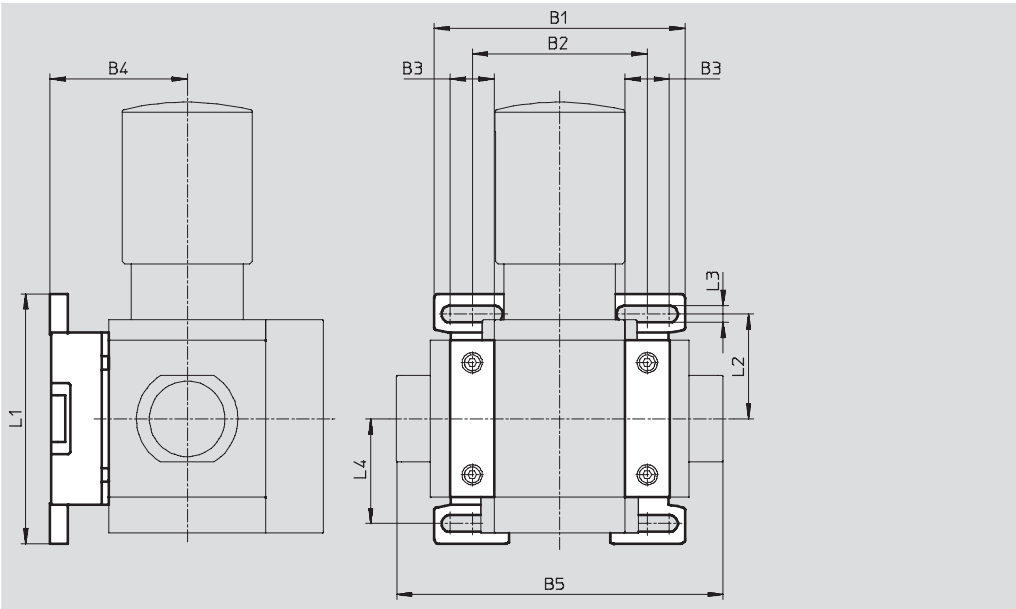
Accessories

Mounting bracket MS6-WPM

- To connect the modules for wall mounting
- In combination with a port plate MS-AG... for mounting an individual unit on a wall
- Speedy attachment and detachment
- For installation of modules with regulating knob pointing downwards

The distance piece D or 2D (designated in the type code) is included in the scope of delivery and ensures the correct clearance

Material:
Die-cast aluminum

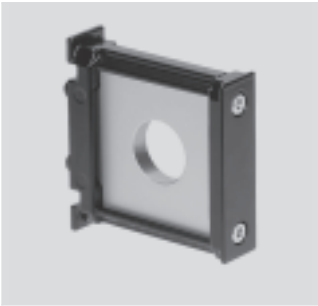


Dimensions and Ordering Data												
B1	B2	B3	B4	B5	L1	L2	L3	L4	Clearance	Weight [lb]	Part No.	Type
3.90	2.72	0.69	2.13	5.08	3.88	1.63	0.26	1.63	2.44	0.29	526073	MS6-WPM-D
6.61	5.43			7.80					4.88	0.31	532186	MS6-WPM-2D

Body connector MS6-MVM

- For installation of modules with regulating knob pointing downwards

Material:
Die-cast aluminum



Ordering Data		
Size	Part No.	Type
MS6	532801	MS6-MVM

Pre-configured Combination Units MSB6N – Inch Series



Accessories

Filter cartridge MS6-LF...



MS...-LFM



MS...-LFP




MS...-LFX


Ordering Data			
	Filtration grade [µm]	Part No.	Type
Micro-filter cartridge	0.01	532909	MS6-LFM-A
Fine-filter cartridge	1	532910	MS6-LFM-B
Filter cartridge	5	534499	MS6-LFP-C
Filter cartridge	40	534500	MS6-LFP-E
Active carbon filter cartridge	Residual oil content ≤ 0.003 mg/m ³	532911	MS6-LFX

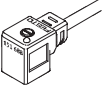
Pre-configured Combination Units MSB6N – Inch Series


Accessories


FESTO


5 Ordering Data – Angled Socket PEV					Technical data → www.festo.com/catalog/pev	
	Description	Operating voltage range	Electrical connection	Switching status display	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	4-pin	Yellow LED	164275	PEV-1/4-WD-LED-230
		≤ 180 V DC				


6 Ordering Data – Plug Socket MSSD					Technical data → www.festo.com/catalog/mssd	
	Description	Operating voltage range	Electrical connection	Type of mounting cable connection	Part No.	Type
	for PEV-1/4-...-OD	≤ 250 V AC/DC	3-pin	Clamping screws	171157	MSSD-C-4P
	for MS6N-EE/DE	≤ 250 V AC/DC	3-pin	Clamping screws	151687	MSSD-EB
			4-pin	Insulation displacement technology	192745	MSSD-EB-S-M14

7 Ordering Data – Plug Socket with Cable KMEB					Technical data → www.festo.com/catalog/kmeb	
	Description	Operating voltage range	Switching status display	Cable length [ft]	Part No.	Type
	for MS6N-EE/DE	24 V DC	LED	8.2	151688	KMEB-1-24-2,5-LED
		24 V DC	LED	16.4	151689	KMEB-1-24-5-LED
		24 V DC	LED	32.8	193457	KMEB-1-24-10-LED
		230 V AC	–	8.2	151690	KMEB-1-230AC-2,5
		230 V AC	–	16.4	151691	KMEB-1-230AC-5

9 Ordering Data – Illuminating Seal MEB-LD				Technical data → www.festo.com/catalog/meb-ld	
	Description	Operating voltage range		Part No.	Type
	for plug socket with cable KMEB and plug socket MSSD-EB	12 ... 24 V DC		151717	MEB-LD-12-24DC
		230 V DC/AC ±10%		151718	MEB-LD-230AC

4 Ordering Data – Silencer U			Technical data → www.festo.com/catalog/u	
	Description	Pneumatic connection	Part No.	Type
	for MS6N-EM1/EE	1/2 NPT	6844	U-1/2-B

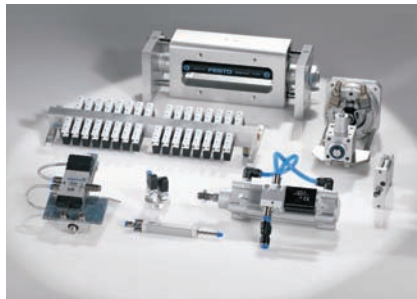
10 Ordering Data – Padlock LRVS-D					
	Description	Weight [lb]	Part No.	Type	
	for regulators, filter/regulators and manual on-off valves	0.24	193786	LRVS-D	

Ordering Data – Special Oil OFSW					
	Description	Scope of delivery	Part No.	Type	
	for lubricators	1 liter	152811	OFSW-32	

Product Range and Company Overview

A Complete Suite of Automation Services

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components

Complete custom engineered solutions



Custom Control Cabinets

Comprehensive engineering support and on-site services

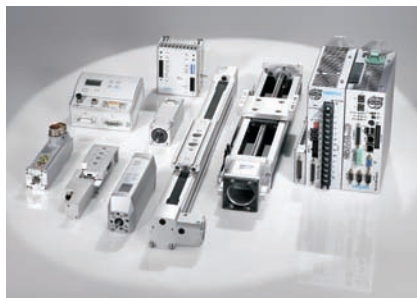


Complete Systems

Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical

Electromechanical actuators, motors, controllers & drives



Pneumatics

Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices

PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 11,500 employees in 56 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 Certification

Festo Corporation is committed to provide Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

All Festo locations within the United States are registered to ISO 9001.



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Email: customer.service@us.festo.com

For technical support,

Call: 1.866.GO.FESTO

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Email: product.support@us.festo.com

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1825 Lakeway Drive, Suite 600
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