

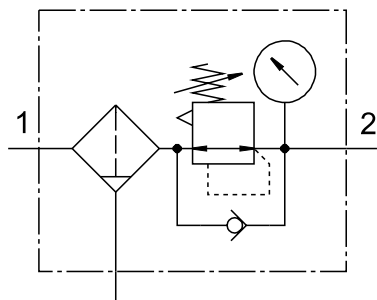
Filter regulator MS4N-LFR

FESTO



Characteristics

At a glance

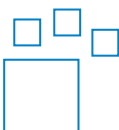


In this device, the filter and pressure regulator are combined into one unit. The sintered filter with water separator removes contamination, pipe scale, rust and condensate from the compressed air.

- Directly actuated diaphragm regulator
- Good regulation characteristics with minimal pressure hysteresis and primary pressure compensation
- Good particle and condensate separation
- With or without secondary venting
- Lockable rotary knob
- Return flow option for exhausting from output 2 to input 1 already integrated
- For stepless, precise adjustment of the desired operating pressure
- Irrespective of compressed air fluctuations in the network and due to air consumption, the pressure regulator keeps the working pressure largely constant

Ordering data - modular system

Link [ms4n-lfr](#)



Configurable product

This product and all its product options can be ordered online via the configurator.

Pneumatic connection

The installation of connection plates makes it easier to replace the module if necessary (e.g., when using piping).

Pressure regulation range

A pressure regulator always operates with the highest precision within its specified range.

Grade of filtration

Grade of filtration of 5 µm or 40 µm can be selected.

Condensate drains

Moisture is produced in machinery as a result of compressed air cooling down. In the long run, this can cause corrosion or reduce the system's efficiency. The condensate drain can be used to drain off the moisture.

Pressure gauge alternatives

- Features [AG]: integrated pressure gauges
- Features [AD7]/[AD8]/[AD9]/[AD10]: simple pressure sensors for monitoring the system
- Features [A4]/[A8]: Adapter for pressure gauge
- Features [AD11]/[AD12]: functional pressure sensors for monitoring the system

Characteristics

Secondary venting

[] With secondary exhaust

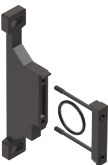
In a secondary venting system, when pressure is reduced via the regulator, the excess compressed air downstream of the regulator is automatically vented to the atmosphere.

Type of mounting

[WR] Mounting bracket with knurled nut on regulator knob



[WP] Mounting bracket standard design



in conjunction with mounting plate MS-AEND for wall mounting of a single device
In conjunction with sub-base for wall mounting of a single device
For connecting the modules for wall mounting
Same wall distance for mixed combination with series MS4 and MS6

[WPM] Mounting bracket for hooking in air preparation units



For connecting the modules for wall mounting
In conjunction with sub-base MS4-AG... for wall mounting of an individual device
Fast hooking and unhooking

[WB] Mounting centrally at rear (wall mounting top and bottom), sub-bases not required



For wall mounting

[WBM] Mounting centrally at rear (wall mounting top), sub-bases not required



For wall mounting

Type code

001	Series	
MS	MS series	
002	Size	
4		
003	Thread type	
N	NPT thread	
004	Function	
LFR	Filter regulator	
005	Pneumatic connection, inch	
1/8	Internal thread NPT 1/8	
1/4	Internal thread NPT 1/4	
AQK	Sub-base NPT 1/8	
AQN	Sub-base NPT 1/4	
AQP	Sub-base NPT 3/8	
006	Pressure regulation range	
D5	0.3 ... 4 bar	
D6	0.3 ... 7 bar	
D7	0.5 ... 12 bar	
007	Grade of filtration	
C	5 µm	
E	40 µm	
008	Bowl	
R	Plastic bowl with plastic bowl guard	
U	Metal bowl guard	
009	Condensate drain	
H	Semi-automatic	
M	Manual	
V	Fully automatic, normally open	
VC	Fully automatic, normally closed	
010	Lockable	
	Without	
AS	Can be locked using accessories	
E11	With integrated lock	

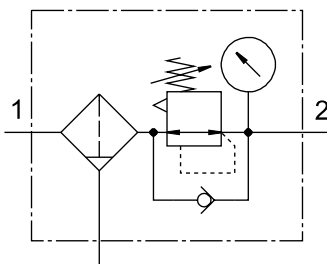
011	Pressure gauge alternatives	
	Without	
A4	Adapter plate for EN pressure gauge 1/4, without pressure gauge	
A8	Adapter plate for EN pressure gauge 1/8, without pressure gauge	
AD7	Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/O	
AD8	Pressure sensor with switching display, M8 plug, threshold value comparator, PNP, N/C	
AD9	Pressure sensor with switching display, M8 plug, window comparator, PNP, N/O	
AD10	Pressure sensor with operational status indicator, M8 plug, window comparator, PNP, N/C	
AD11	Pressure sensor with LCD display, M12 4-pin plug, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA	
AD12	Pressure sensor with LCD display, M8 4-pin plug, IO-Link®, PNP, NPN, 0...10 V, 1...5 V, 4...20 mA	
RG	Integrated pressure gauge, red/green scale	
VS	Cover plate	
012	Alternative pressure gauge scale	
	MS pressure gauge	
BAR	Bar	
MPA	MPa	
013	Secondary venting	
	With secondary exhaust	
OS	Without secondary exhaust	
014	Rotary knob alternative	
	Without	
LD	Long rotary knob	
015	Type of mounting	
	Without mounting bracket	
WB	Mounting centrally at rear (wall mounting top and bottom), sub-bases not required	
WBM	Mounting centrally at rear (wall mounting top), sub-bases not required	
WP	Mounting bracket standard design	
WPM	Mounting bracket for hooking in air preparation units	
WR	Mounting bracket with knurled nut on regulator knob	
016	Flow direction	
	Flow direction from left to right	
Z	Flow direction from right to left	

Datasheet

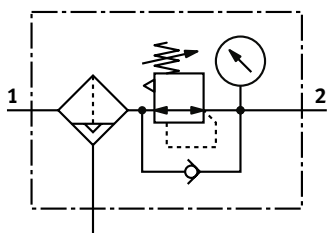
General technical data

Grade of filtration	5 µm		40 µm	
Pneumatic connection 1	1/8 NPT	1/4 NPT	1/8 NPT	1/4 NPT
Pneumatic connection 2	1/8 NPT	1/4 NPT	1/8 NPT	1/4 NPT
Size	4			
Structural design	Filter regulator with pressure gauge			
Controller function	Constant output pressure, With secondary exhausting, With return flow characteristic			
Type of mounting	Alternatively: Front panel mounting In-line installation With accessories			
Mounting position	Vertical ±5°			
Air quality class at the output	Compressed air as per ISO 8573-1:2010 [6:4:4]		Compressed air as per ISO 8573-1:2010 [7:4:4]	
Bowl guard	Plastic bowl guard Integrated as metal bowl		Plastic bowl guard	Plastic bowl guard Integrated as metal bowl
Condensate drain	Fully automatic, Manual, non-detenting, Manual, rotating			
Degree of condensate separation	>75%			
Pore size	<5 µm		<40 µm	
Actuator lock	Rotary knob with detent, can be closed with accessories			
Pressure regulation range	0.3 ... 12 bar			
Max. pressure hysteresis	0.25 bar			
Pressure gauge	with pressure gauge			
Max. condensate volume	19 ... 25 ml		19 ml	19 ... 25 ml

Function – Condensate drain, manual rotary, with pressure gauge



Function – Condensate drain semi- or fully automatic, with pressure gauge



Standard nominal flow rate q_N

Pressure regulation range	0.5 ... 12 bar				0.3 ... 7 bar			
Pneumatic connection 1	1/8 NPT		1/4 NPT		1/8 NPT		1/4 NPT	
Grade of filtration	5 µm	40 µm	5 µm	40 µm	5 µm	40 µm	5 µm	40 µm
Normal nominal flow rate (normalized to DIN 1343)	850 l/min	900 l/min	1,200 l/min	1,500 l/min	900 l/min	1,000 l/min	1,500 l/min	1,700 l/min

Datasheet

Operating and ambient conditions

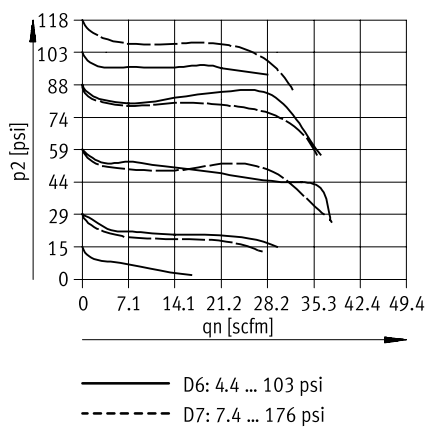
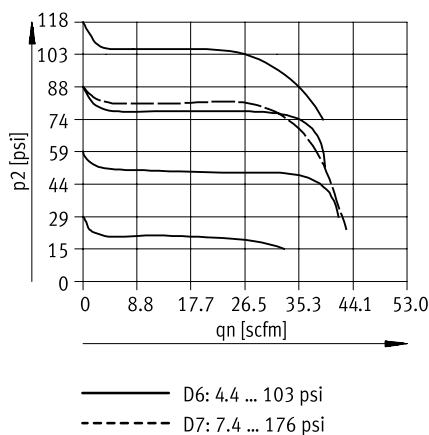
Condensate drain	Fully automatic, Manual, non-detenting	Manual, rotating
Operating pressure	2 ... 12 bar	0.8 ... 14 bar
Operating medium	Compressed air as per ISO 8573-1:2010 [7:4:-] Inert gases	Compressed air as per ISO 8573-1:2010 [-:4:-] Inert gases
Ambient temperature	-10 ... 60°C	
Temperature of medium	-10 ... 60°C	
Storage temperature	-10 ... 60°C	
Corrosion resistance class (CRC) ¹⁾	2 - Moderate corrosion stress	
For use in the food industry ²⁾	See supplementary material information	

1) Further information, visit www.festo.com/x/topic/kbk

2) More information www.festo.com/catalogue/ms-lfr → Support/Downloads.

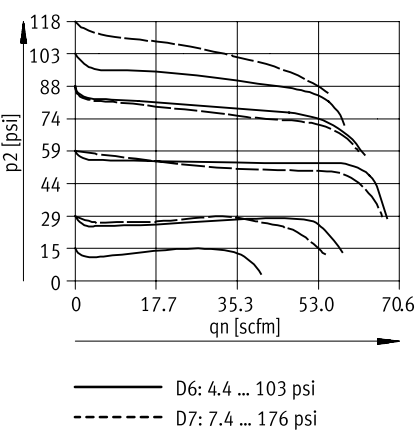
Materials

Bowl	Plastic bowl with plastic bowl guard [R]	Metal bowl guard [U]
Housing material	Die-cast aluminum	
Material of bowl	PC	Die-cast aluminum, Wrought aluminum alloy
Compressed air filter material	Protective grounding	
Seals material	NBR	
Diaphragm material	NBR	
Separating disc material	POM	
Note on materials	RoHS compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

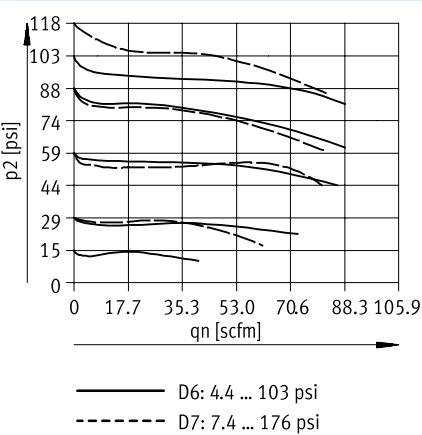
Normal flow rate q_n as a function of outlet pressure p_2 ($p_1 = 147$ psi) - MS4N-LFR-1/8 (filter fineness: 5 μm)Normal flow rate q_n as a function of outlet pressure p_2 ($p_1 = 147$ psi) - MS4N-LFR-1/8 (filter fineness: 40 μm)

Datasheet

Normal flow rate q_n as a function of outlet pressure p_2 ($p_1 = 147 \text{ psi}$) - MS4N-LFR-1/4 (filter fineness: $5 \text{ }\mu\text{m}$)

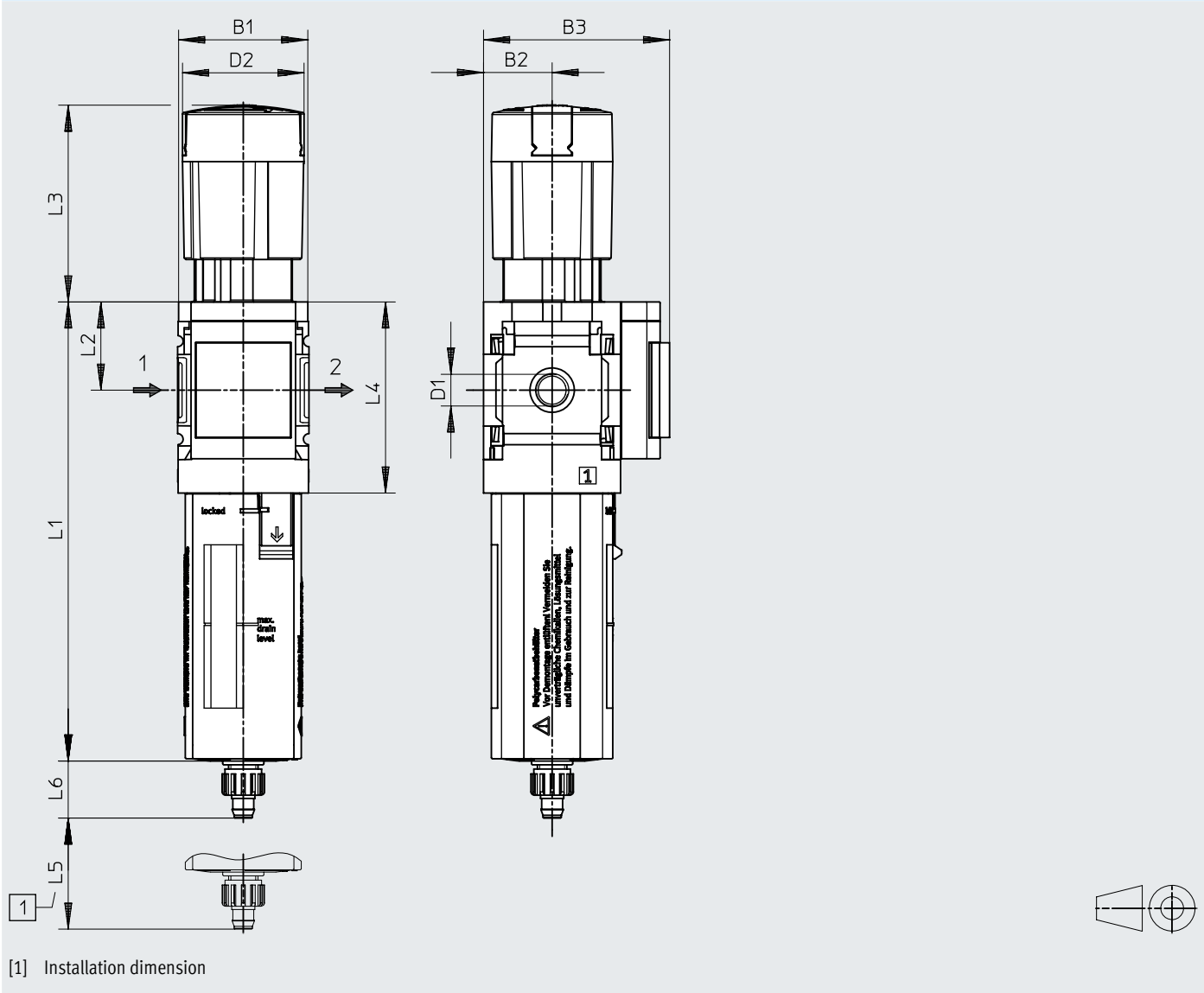


Normal flow rate q_n as a function of outlet pressure p_2 ($p_1 = 147 \text{ psi}$) - MS4N-LFR-1/4 (filter fineness: $40 \text{ }\mu\text{m}$)



Dimensions

Dimensions – Basic type with plastic bowl guard Download CAD data www.festo.com

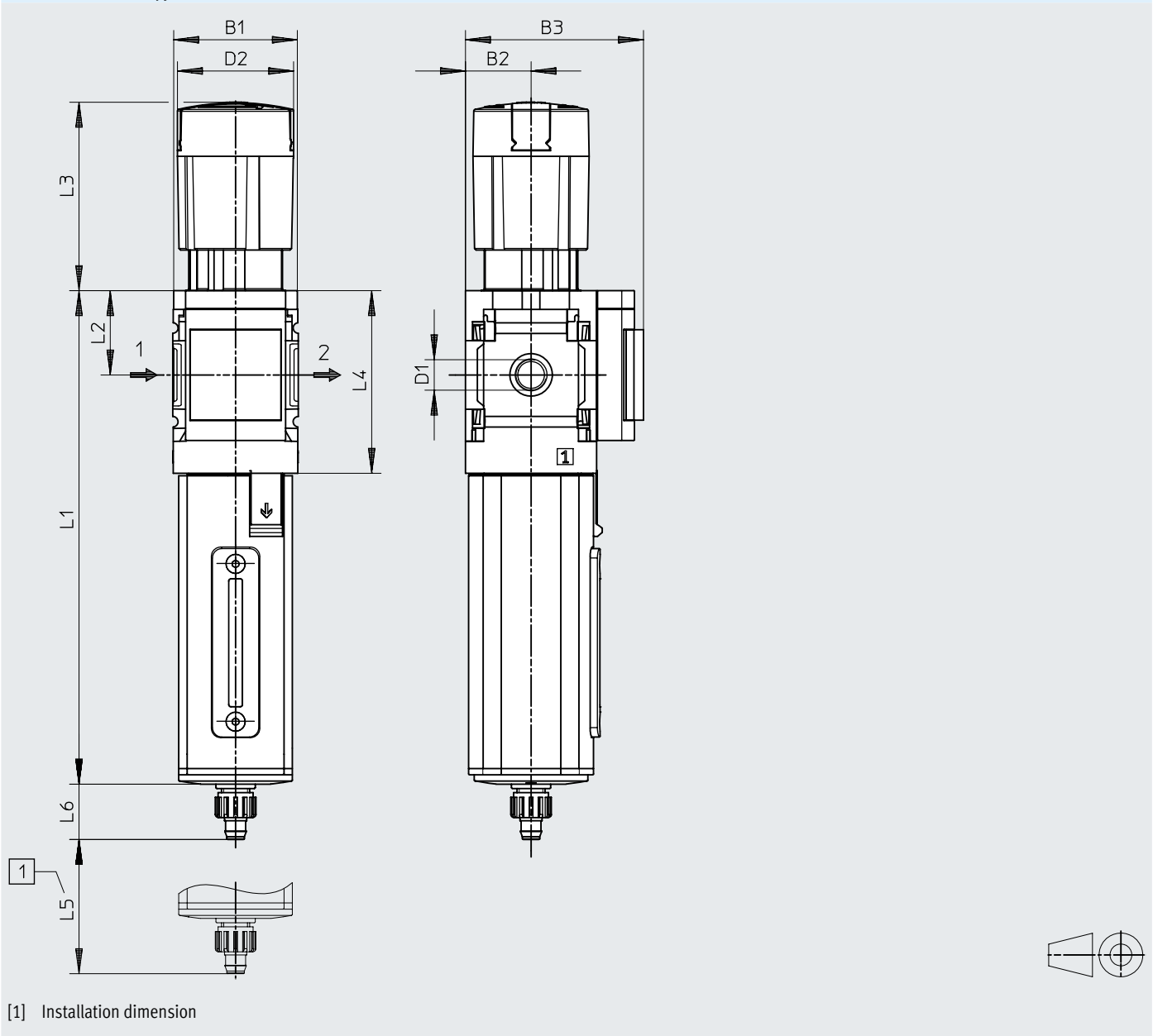


	B1 [inch]	B2 [inch]	B3 [inch]	D1	D2 [inch]	L1 [inch]	L2 [inch]	L3 [inch]	L4 [inch]	L5 [inch]	L6 [inch]
MS4N-LFR-1/8	1,57	0,83	2,24	1/8 NPT	1,46	5,54	1,06	2,37	2,30	≈0,98	0,70
MS4N-LFR-1/4				1/4 NPT							

Dimensions

Dimensions – Basic type with metal shell

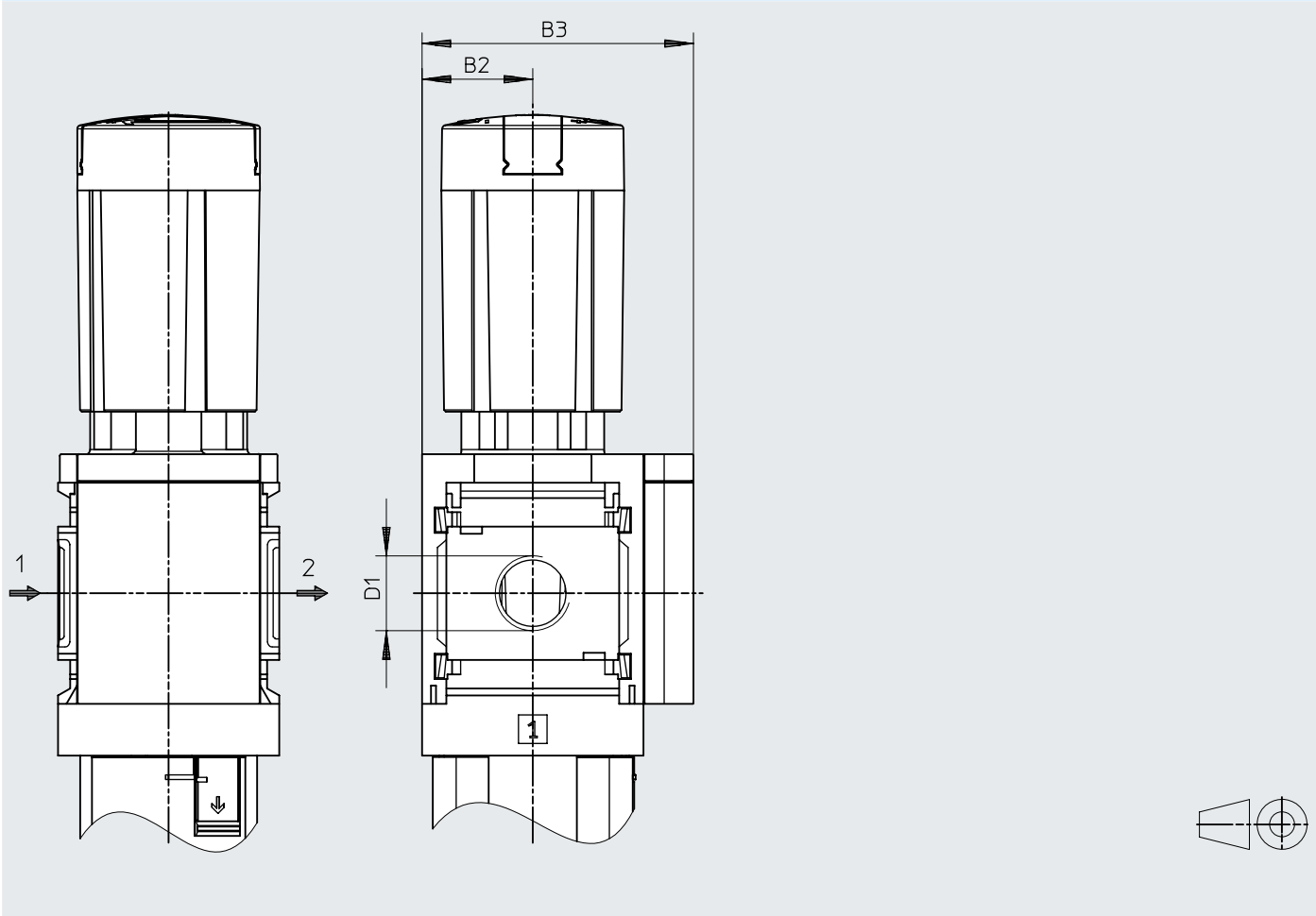
Download CAD data www.festo.com



	B1 [inch]	B2 [inch]	B3 [inch]	D1	D2 [inch]	L1 [inch]	L2 [inch]	L3 [inch]	L4 [inch]	L5 [inch]	L6 [inch]
MS4N-LFR-1/8	1,57	0,83	2,24	1/8 NPT	1,46	6,22	1,06	2,37	2,30	≥0,98	0,70
MS4N-LFR-1/4				1/4 NPT							

Dimensions

Dimensions – Pressure gauge alternatives, cover plate Download CAD data www.festo.com

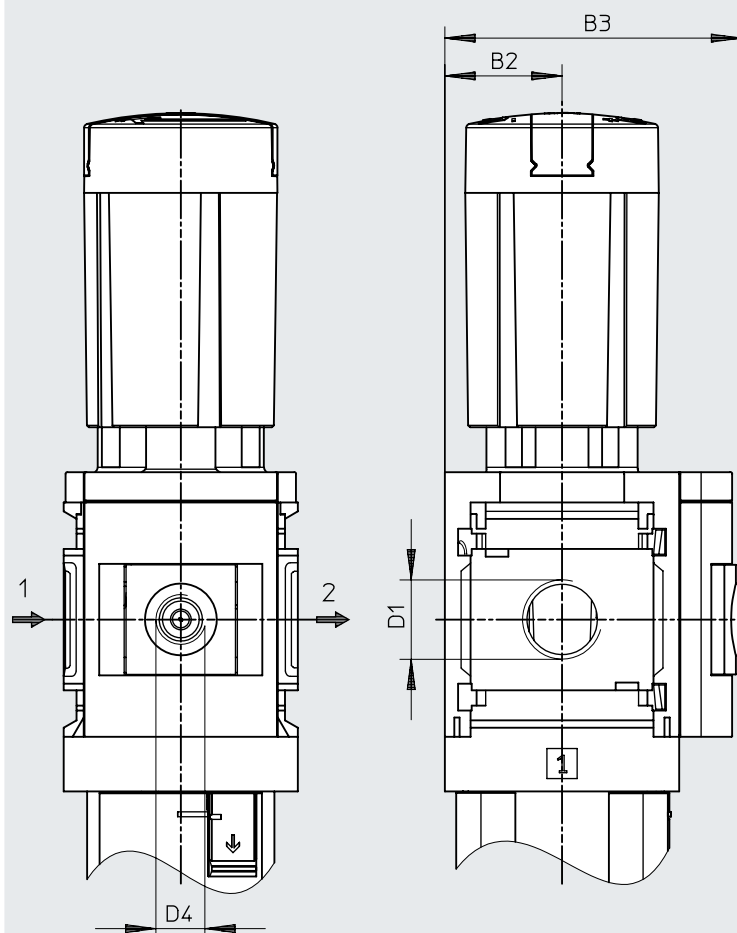


	B2 [inch]	B3 [inch]	D1
MS4N-LFR-1/8-...-VS	0,83	2,13	1/8 NPT
MS4N-LFR-1/4-...-VS			1/4 NPT

Dimensions

Dimensions – Pressure gauge alternatives, adapter for EN pressure gauge 1/8, without pressure gauge, adapter for EN pressure gauge 1/4, without pressure gauge

Download CAD data www.festo.com

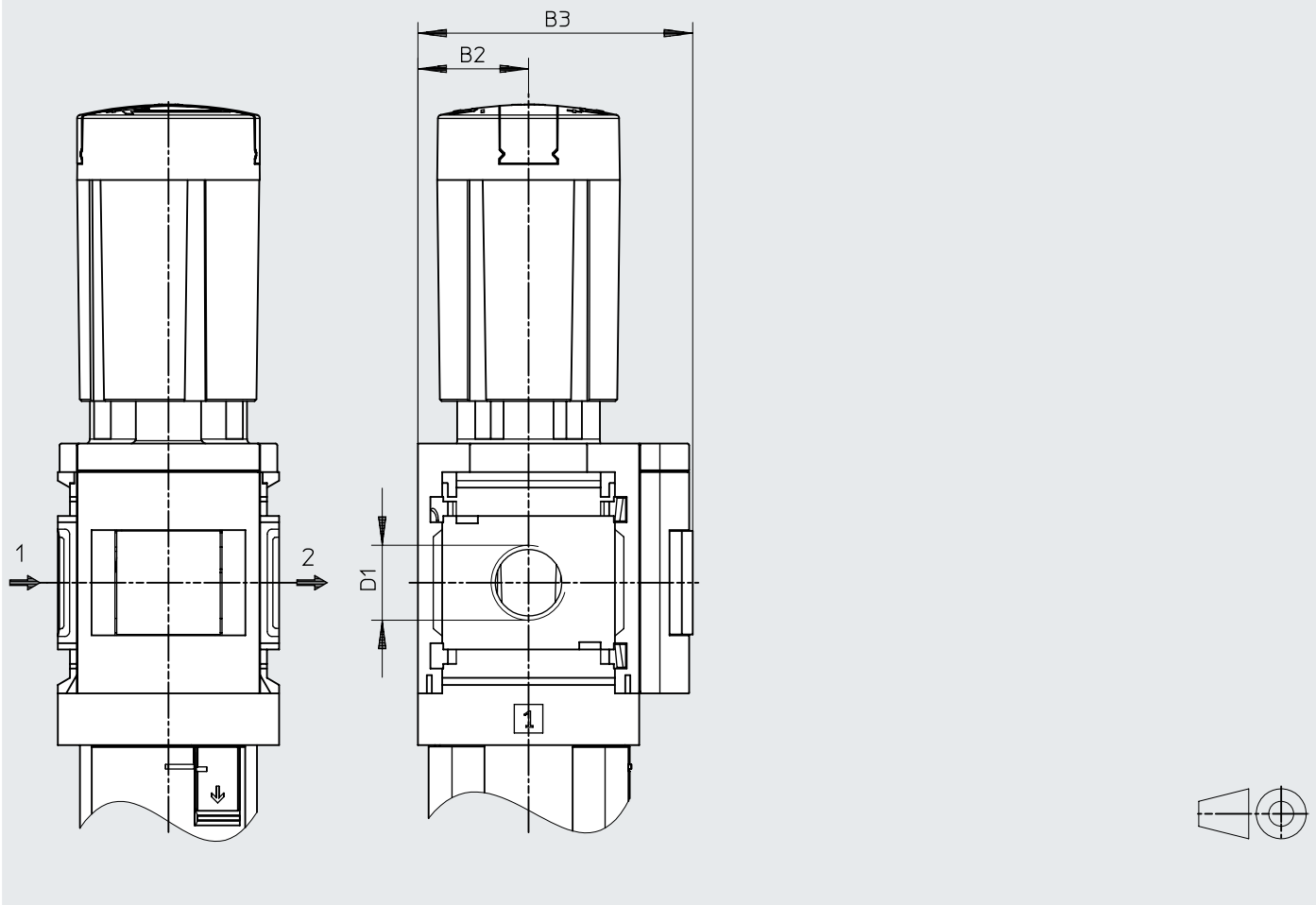


	B2 [inch]	B3 [inch]	D1	D4
MS4N-LFR-1/8-...-A8	0,83	2,30	1/8 NPT	1/8 NPT
MS4N-LFR-1/4-...-A8			1/4 NPT	
MS4N-LFR-1/8-...-A4	0,83	2,30	1/8 NPT	1/4 NPT
MS4N-LFR-1/4-...-A4			1/4 NPT	

Dimensions

Dimensions – Pressure gauge alternatives, integrated MS pressure gauge with red-green scale

Download CAD data www.festo.com

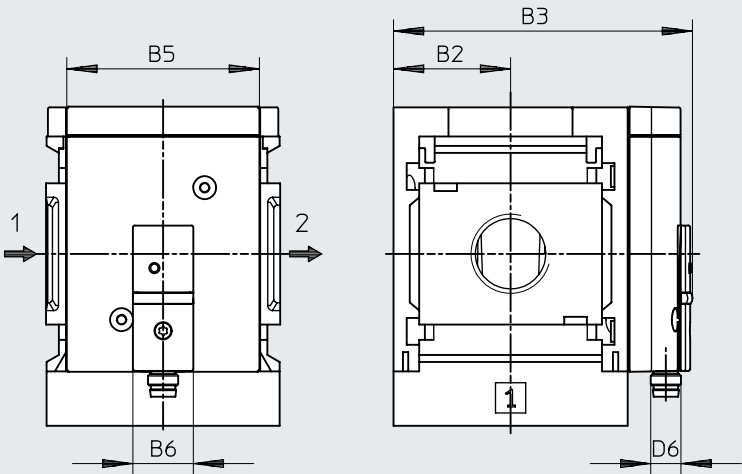


	B2 [inch]	B3 [inch]	D1
MS4N-LFR-1/8-...-RG	0,83	2,30	1/8 NPT
MS4N-LFR-1/4-...-RG			1/4 NPT

Dimensions

Dimensions – Pressure gauge alternatives, AD7 ... AD10 pressure sensor without LCD display (only switching display)

Download CAD data www.festo.com

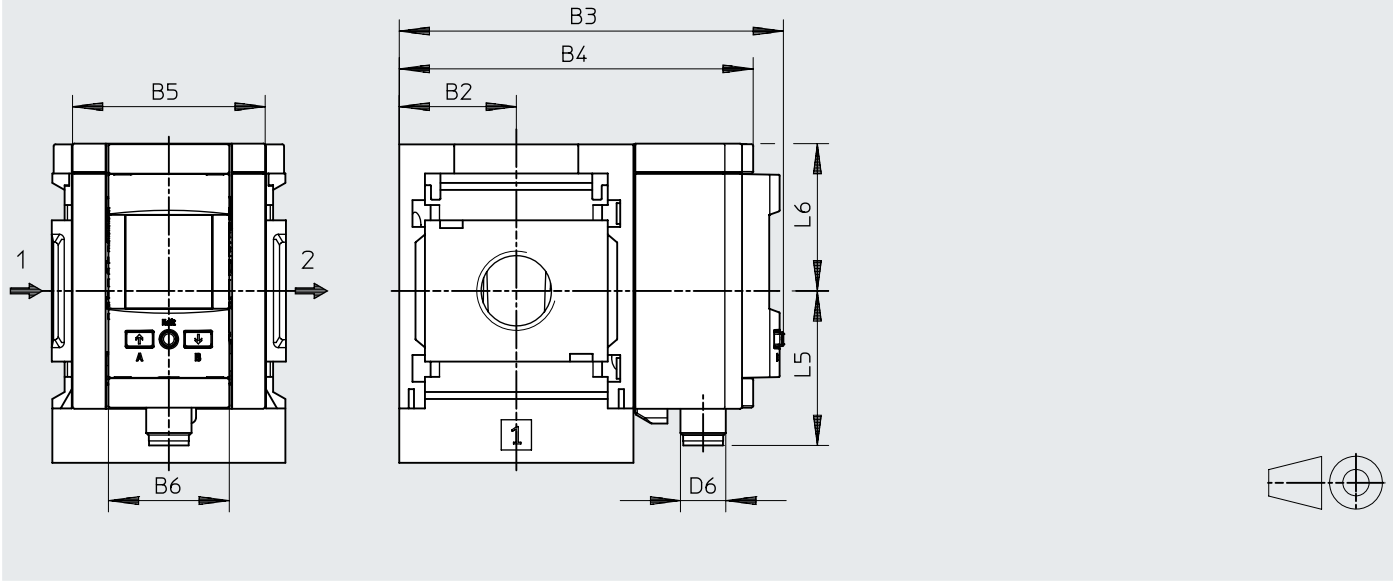


	B2 [inch]	B3 [inch]	B5 [inch]	B6 [inch]	D6
MS4N-LFR-...-AD7/AD8/AD9/AD10	0,83	2,33	1,26	0,63	M8x1

Dimensions

Dimensions – Pressure gauge alternatives, AD11/AD12 pressure sensor with LCD display

Download CAD data www.festo.com

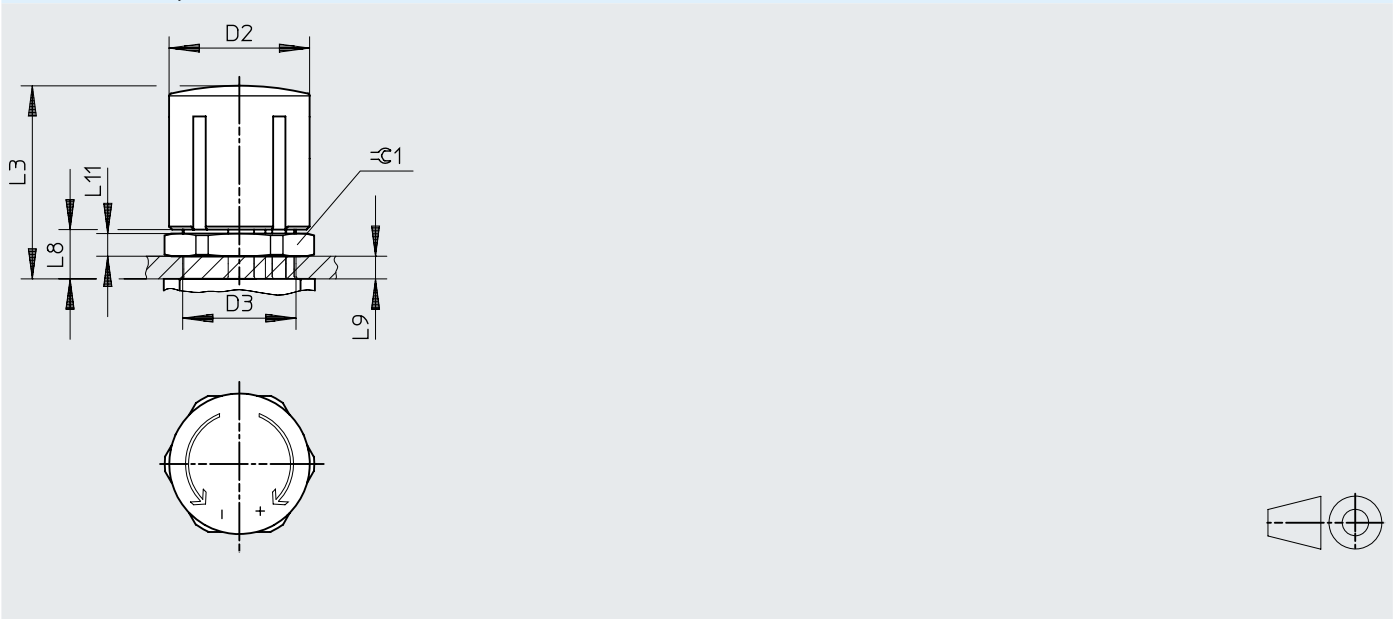


	B2 [inch]	B3 [inch]	B4 [inch]	B5 [inch]	B6 [inch]	D6	L5 [inch]	L6 [inch]
MS4N-LFR-...-AD11	0,83	3,20	2,89	1,26	1,26	M12x1	1,62	1,54
MS4N-LFR-...-AD12						M8x1	1,49	

Dimensions

Dimensions – Rotary knob with latch

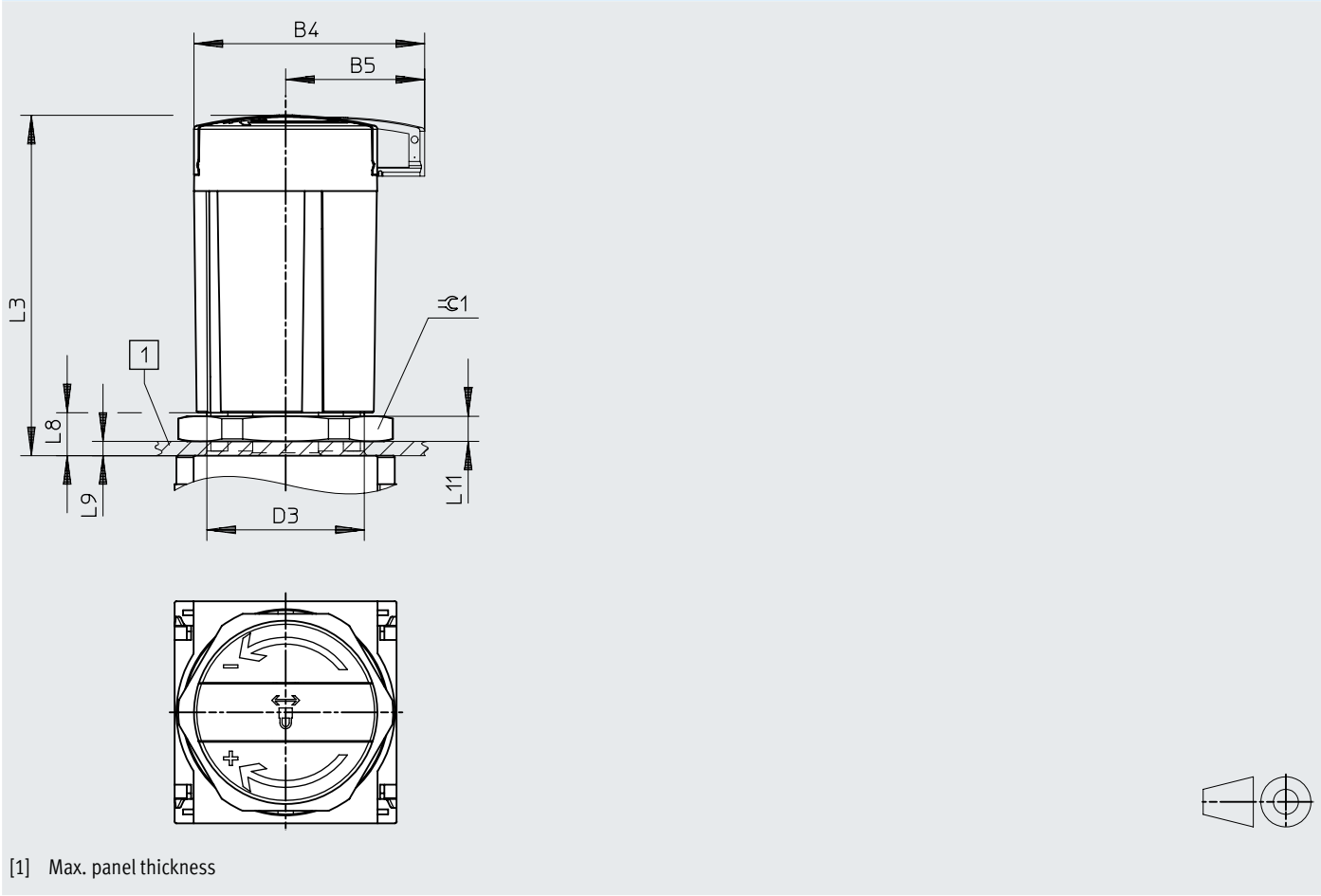
Download CAD data www.festo.com



	D2 [inch]	D3	L3 [inch]	L8 [inch]	L9 [inch]	L11 [inch]	≈ 1 [inch]
MS4N-LFR-...	1,46	M30x1,5	2,01	0,51	0,20	0,24	1,42

Dimensions

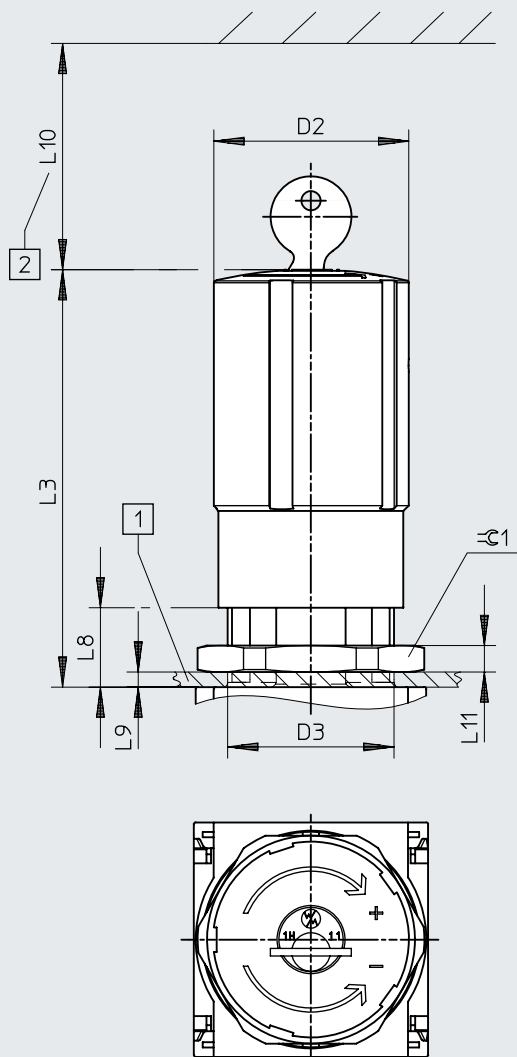
Dimensions – Rotary knob with latch, closable with accessories Download CAD data www.festo.com



	B4 [inch]	B5 [inch]	D2 [inch]	D3	L3 [inch]	L8 [inch]	L9 [inch]	L11 [inch]	≈ 1 [inch]
MS4N-LFR-...-AS	1,91	1,18	1,46	M30x1,5	2,37	0,51	1,20	0,24	1,42

Dimensions

Dimensions – Rotary knob with integrated lock

[Download CAD data](#) www.festo.com


- [1] Max. panel thickness
[2] Installation dimension

	D2 [inch]	D3	L3 [inch]	L8 [inch]	L9 [inch]	L10 [inch]	L11 [inch]	≅ 1 [inch]
MS4N-LFR-...-E11	1,46	M30x1,5	2,99	0,55	0,24	2,36	0,24	1,42

Dimensions

Dimensions – Rotary knob long with latch Download CAD data www.festo.com

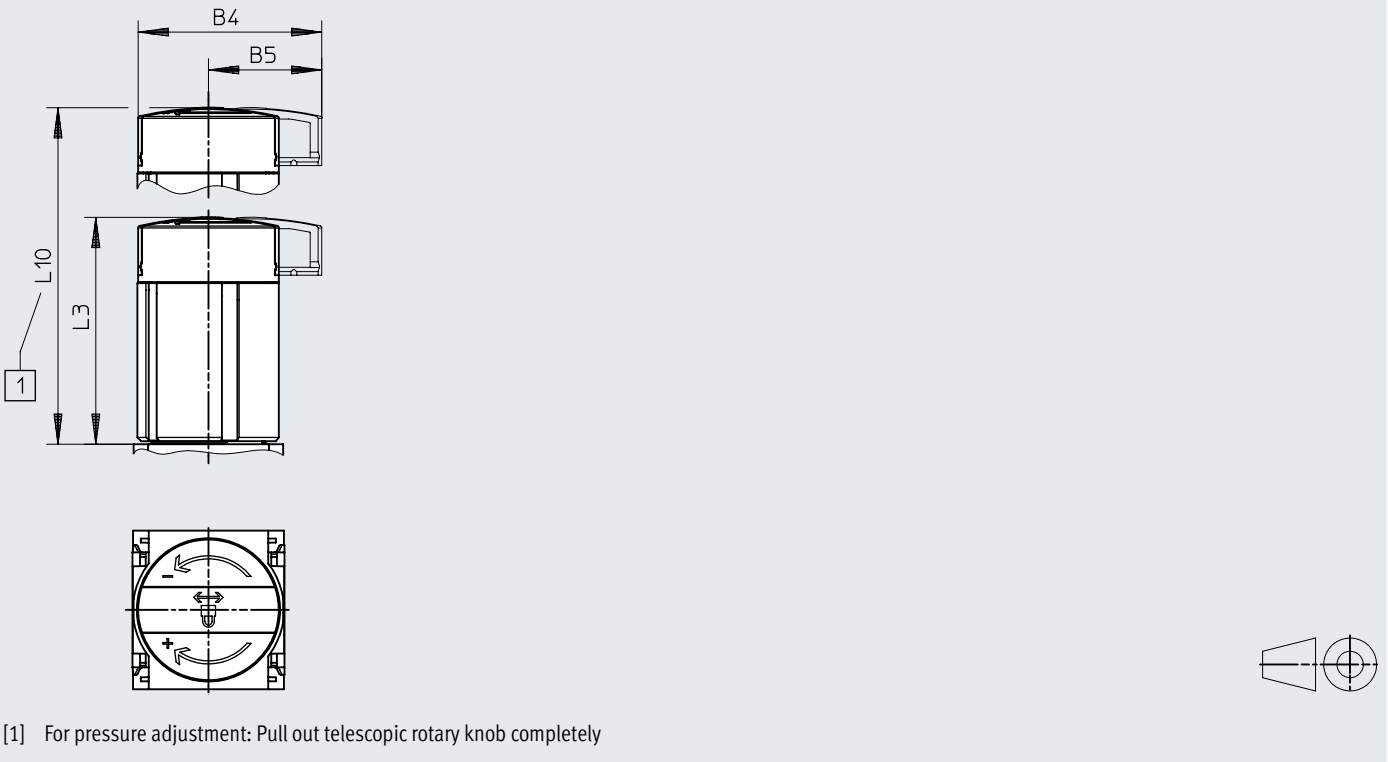


	D2 [inch]	L3 [inch]	L10 [inch]
MS4N-LFR-...-LD	1,46	2,01	3,02

Dimensions

Dimensions – Rotary knob long with latch, closable with accessories

Download CAD data www.festo.com

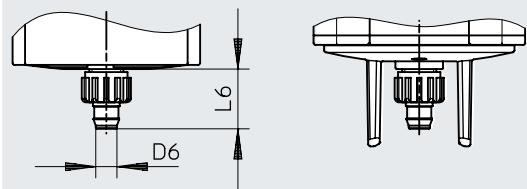


	B4 [inch]	B5 [inch]	D2 [inch]	L3 [inch]	L10 [inch]
MS4N-LFR-...-LD-AS	1,91	1,18	1,46	2,36	3,37

Dimensions

Dimensions – Manual rotary condensate drain [Download CAD data](http://www.festo.com) www.festo.com

MS4 – . . . -R-M MS4 – . . . -U-M



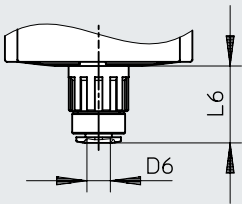
	D6 Ø [inch]	L6 [inch]
MS4N-LFR-...-R-M	0,22	0,70
MS4N-LFR-...-U-M		

Dimensions

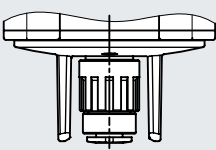
Dimensions – Condensate drain semiautomatic

Download CAD data www.festo.com

MS4-...-R-H



MS4-...-U-H

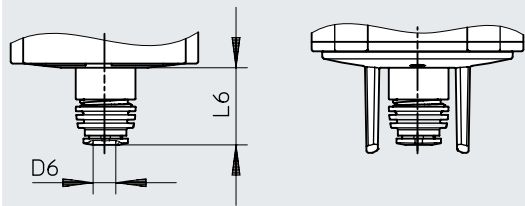


	D6 ø [inch]	L6 [inch]
MS4N-LFR-...-R-H	0,24	0,87
MS4N-LFR-...-U-H		

Dimensions

Dimensions – Condensate drain fully automatic Download CAD data www.festo.com

MS4 – . . . – R – V MS4 – . . . – U – V



	D6 Ø [inch]	L6 [inch]
MS4N-LFR-...-R-V	0,22	0,80
MS4N-LFR-...-U-V		

Ordering data

Ordering data - Pressure regulation range 0.3 ... 7 bar, plastic bowl with plastic bowl guard

	Pneumatic connection 1	Grade of filtration	Condensate drain	Product weight	Part no.	Type
	1/8 NPT	5 µm	Fully automatic, Manual, non-de-tenting	275 g	531234	MS4N-LFR-1/8-D6-CRV-AS
			Manual, rotating		531232	MS4N-LFR-1/8-D6-CRM-AS-Z
		40 µm	Fully automatic, Manual, non-de-tenting		531230	MS4N-LFR-1/8-D6-CRM-AS
			Manual, rotating		531226	MS4N-LFR-1/8-D6-ERV-AS
			Manual, rotating		531222	MS4N-LFR-1/8-D6-ERM-AS
	1/4 NPT	5 µm	Fully automatic, Manual, non-de-tenting		531233	MS4N-LFR-1/4-D6-CRV-AS
			Manual, rotating		531229	MS4N-LFR-1/4-D6-CRM-AS
		40 µm	Fully automatic, Manual, non-de-tenting		531225	MS4N-LFR-1/4-D6-ERV-AS
			Manual, rotating		531221	MS4N-LFR-1/4-D6-ERM-AS

Ordering data - Pressure regulation range 0.5 ... 12 bar, plastic bowl with plastic bowl guard

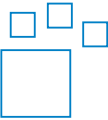
	Pneumatic connection 1	Grade of filtration	Condensate drain	Product weight	Part no.	Type
	1/8 NPT	5 µm	Fully automatic, Manual, non-de-tenting	275 g	531218	MS4N-LFR-1/8-D7-CRV-AS
			Manual, rotating		531214	MS4N-LFR-1/8-D7-CRM-AS
		40 µm	Fully automatic, Manual, non-de-tenting		531210	MS4N-LFR-1/8-D7-ERV-AS
			Manual, rotating		531206	MS4N-LFR-1/8-D7-ERM-AS
			Manual, rotating		531217	MS4N-LFR-1/4-D7-CRV-AS
	1/4 NPT	5 µm	Fully automatic, Manual, non-de-tenting		531213	MS4N-LFR-1/4-D7-CRM-AS
			Manual, rotating		531209	MS4N-LFR-1/4-D7-ERV-AS
		40 µm	Fully automatic, Manual, non-de-tenting		531205	MS4N-LFR-1/4-D7-ERM-AS
			Manual, rotating			

Ordering data - Pressure regulation range 0.5 ... 12 bar, metal bowl

	Pneumatic connection 1	Grade of filtration	Condensate drain	Product weight	Part no.	Type
	1/8 NPT	5 µm	Manual, rotating	475 g	535734	MS4N-LFR-1/8-D7-CUM-AS

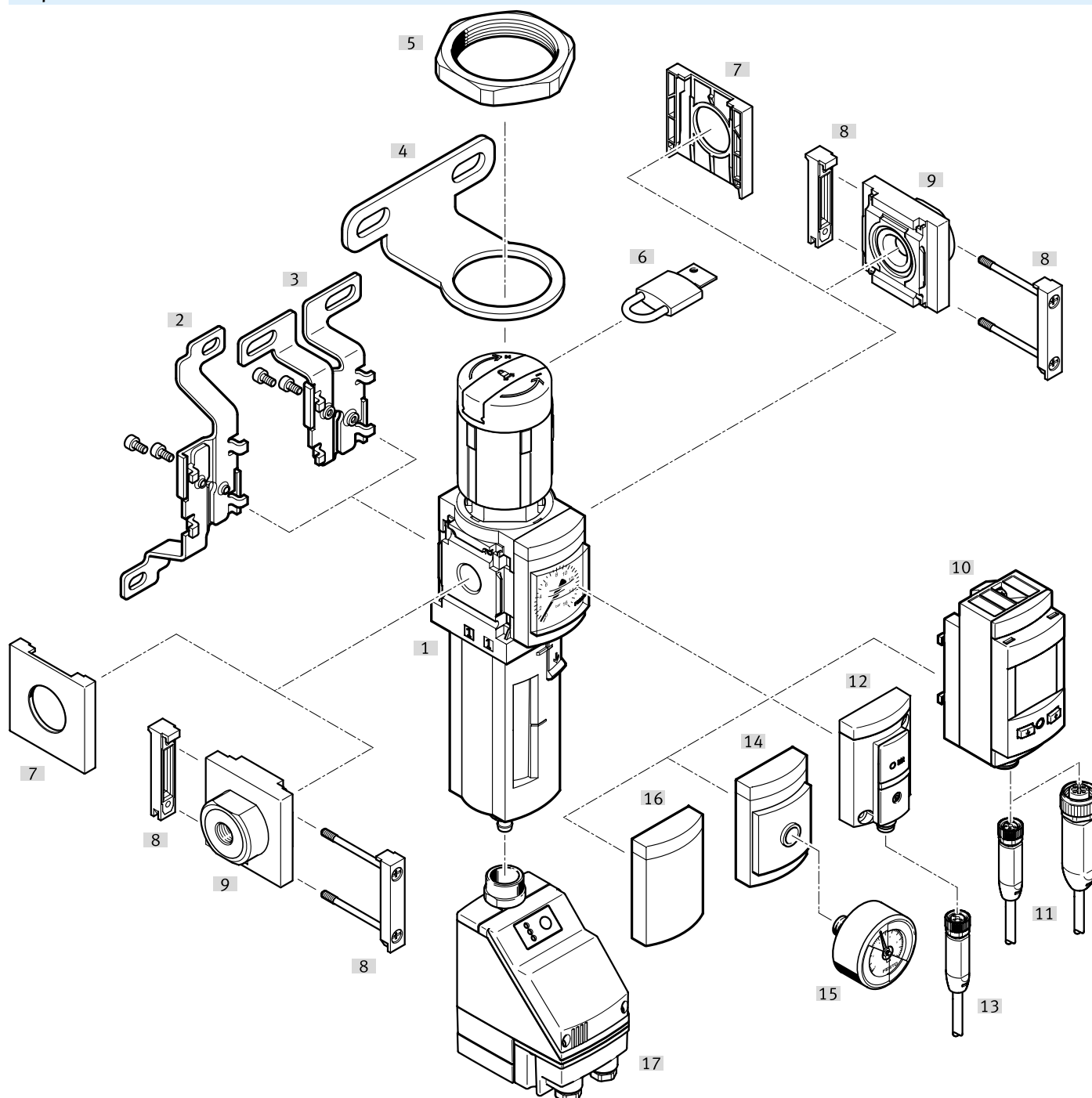
Ordering data

Ordering data – Pressure regulation range 0.5 ... 12 bar, metal bowl						
	Pneumatic connection 1	Grade of filtration	Condensate drain	Product weight	Part no.	Type
	1/4 NPT	5 µm	Fully automatic, Manual, non-de-tenting	475 g	535752	MS4N-LFR-1/4-D7-CUV-AS
			Manual, rotating		535750	MS4N-LFR-1/4-D7-CUM-AS
		40 µm	Fully automatic, Manual, non-de-tenting		535754	MS4N-LFR-1/4-D7-EUV-AS
			Manual, rotating		535756	MS4N-LFR-1/4-D7-EUM-AS

Ordering information – Modular product system			
	Type code	Part no.	Type
	MS4N-LFR	527694	MS4N-LFR

Peripherals overview

Peripherals overview MS4



Accessories		→ Page/Internet
Type/order code	Description	
[1] Filter regulator MS4N-LFR		ms4n-lfr
[2] Mounting bracket MS4-WB	Order code [WB]; for single device	27
[3] Mounting bracket MS4-WBM	Order code [WBM]; for single device	27
[4] Mounting bracket MS4-WR	Order code [WR]; for single device	28
[5] Hex nut MS4-WRS		29
[6] Padlock LRVS-D		29
[7] Cover cap MS4-END	For devices without sub-base	29
[8] Module connector MS4-MV1	For device combinations and individual devices with sub-base	27
[9] Sub-base-SET MS4-AQ...	Order code [AQ...]; for device combinations	29
[10] Pressure sensor AD11/AD12	Order code [AD11], [AD12]; pressure sensor SPAU with LCD display	spau

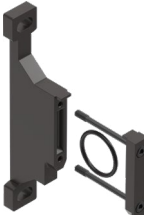
Peripherals overview

Accessories		→ Page/Internet
Type/order code	Description	
[11] Connecting cable NEBA-M8...-LE4, NEBA-M12...-LE4		28
[12] Pressure sensor AD7 ... AD10	Order code [AD7], [AD8], [AD9], [AD10]; pressure sensor SDE5 with switching indicator	sde5
[13] Connecting cable NEBA-M8...-LE3		28
[14] Adapter for EN pressure gauge 1/8, 1/4	Order code [A8], [A4]	ms4n-lfr
[15] Pressure gauge MA		29
[16] Cover plate VS	Order code [VS]	ms4n-lfr
[17] Condensate drain fully automatic, electrically controlled	Not available for this size	–
[18] Filter cartridge MS-LFP	no illustration	27

Accessories

Filter cartridge MS-LFP					
	Grade of filtration	Compressed air filter material	LABS (PWIS) conformity	Part no.	Type
	5 µm	Protective grounding	VDMA24364-B1/B2-L	534501	MS4-LFP-C
	40 µm			534502	MS4-LFP-E

Module connector MS4-MV1					
	Module connector material	LABS (PWIS) conformity	Product weight	Part no.	Type
	POM, high-alloy stainless steel	VDMA24364-B1/B2-L	13 g	8119201	MS4-MV1

Mounting bracket MS4-WP...					
	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	Die-cast aluminum	VDMA24364-B1/B2-L		558869	MS4-WPE
			39 g	532184	MS4-WP
			45 g	526060	MS4-WPM-D
			55 g	526063	MS4-WPB
				526061	MS4-WPM-2D

Mounting bracket MS4-WB					
	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	Steel	VDMA24364-B1/B2-L	46 g	532185	MS4-WB

Mounting bracket MS4-WBM					
	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type
	Steel	VDMA24364-B1/B2-L	48 g	526062	MS4-WBM

Accessories

Mounting bracket MS4-WR						
	Bracket material	LABS (PWIS) conformity	Product weight	Part no.	Type	
	Steel	VDMA24364-B1/B2-L	49 g	526064	MS4-WR	

Pressure sensor SPAU-...-T						
	Pneumatic connection	Switching output	Electrical connection 1, connection technology	Product weight	Part no.	Type
	R1/8	2 x PNP or 2 x NPN switchable	M12x1 A-coded as per EN 61076-2-101	70 g	8001206	SPAU-P10R-T-R18M-L-PNLK-PNVBA-M12D
			M8x1 A-coded as per EN 61076-2-104		8001203	SPAU-P10R-T-R18M-L-PNLK-PNVBA-M8D
	R1/4		M12x1 A-coded as per EN 61076-2-101		8001208	SPAU-P10R-T-R14M-L-PNLK-PNVBA-M12D
			M8x1 A-coded as per EN 61076-2-104		8001209	SPAU-P10R-T-R14M-L-PNLK-PNVBA-M8D

Connecting cables NEBA, straight						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M12x1 A-coded as per EN 61076-2-101	Open end	4	2.5 m	8078239	NEBA-M12G5-U-2.5-N-LE4
				5 m	8078240	NEBA-M12G5-U-5-N-LE4
	M8x1 A-coded as per EN 61076-2-104		3	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3
				5 m	8078224	NEBA-M8G3-U-5-N-LE3
			4	2.5 m	8078227	NEBA-M8G4-U-2.5-N-LE4

Connecting cables NEBA, angled						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/wires	Cable length	Part no.	Type
	M12x1 A-coded as per EN 61076-2-101	Open end	4	2.5 m	8078248	NEBA-M12W5-U-2.5-N-LE4
				5 m	8078249	NEBA-M12W5-U-5-N-LE4
	M8x1 A-coded as per EN 61076-2-104		3	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	8078231	NEBA-M8W3-U-5-N-LE3
			4	2.5 m	8078233	NEBA-M8W4-U-2.5-N-LE4

Accessories

Pressure gauge MA						
	Pneumatic connection	Display range	Display range	Product weight	Part no.	Type
	G1/4	0 ... 232 psi	0 ... 16 bar	70 g	183901	MA-40-16-G1/4-EN
	R1/8			60 g	525726	MA-40-16-R1/8-E-RG
	R1/4			75 g	525729	MA-50-16-R1/4-E-RG
		0 ... 232 psi		70 g	187080	MA-40-16-R1/4-EN

Cover cap MS4-END				
	Housing material	LABS (PWIS) conformity	Part no.	Type
	PA-reinforced	VDMA24364-B1/B2-L	538779	MS4-END

Mounting plate MS4-AEND					
	Plate material	LABS (PWIS) conformity	Product weight	Part no.	Type
	PA-reinforced	VDMA24364-B1/B2-L	4 g	542966	MS4-AEND

Sub-base-SET MS4-AG...					
	Pneumatic connection 1	Material of sub-base	Product weight	Part no.	Type
	1/8 NPT	Die-cast aluminum	128 g	526065	MS4N-AQK
	1/4 NPT			526066	MS4N-AQN
	3/8 NPT			526067	MS4N-AQP

Nut MS4-WRS					
	Nut material	LABS (PWIS) conformity	Product weight	Part no.	Type
	Wrought aluminum alloy	VDMA24364-B1/B2-L	6.9 g	532187	MS4-WRS

Padlock LRVS-D				
	LABS (PWIS) conformity	Product weight	Part no.	Type
	VDMA24364-B1/B2-L	120 g	193786	LRVS-D