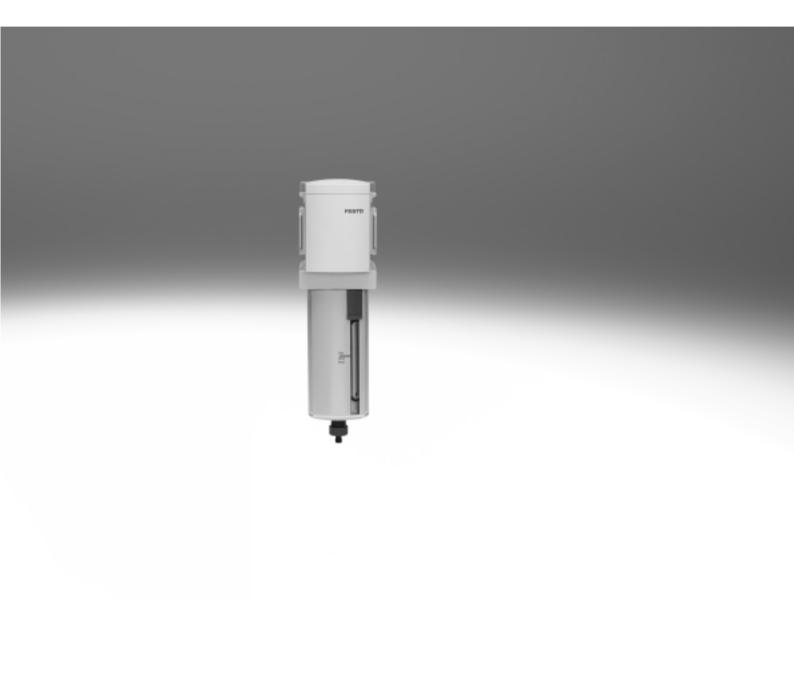
Water separators MS-LWS, MS series, NPT

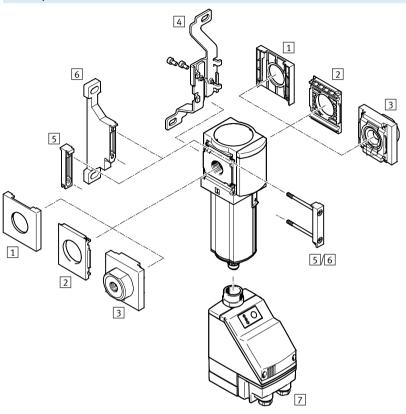
FESTO



Water separators MS6N-LWS, MS series, NPT Peripherals overview



Water separator MS6N-LWS



Note

Additional accessories:

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

| | iting attachments and accessories | Individual device | | Combination | → Page/Internet | | |
|---|--|--------------------|-----------------|--------------------|-----------------|----------|--|
| | | Without connecting | With connecting | Without connecting | With connecting | | |
| | | plate | plate | plate | plate | | |
| 1 | Cover cap | _ | _ | | _ | ms6-end | |
| | MS6-END | - | _ | - | _ | | |
| 2 | Mounting plate | 1) | | ■ 1) | | ms6-aend | |
| | MS6-AEND | - 2/ | _ | - | _ | | |
| 3 | Connecting plate-SET | | 1) | | 1) | ms6n-aq | |
| | MS6N-AQ | _ | = 1) | _ | ■ */ | | |
| 4 | Mounting bracket | _ | | | | ms6-wb | |
| | MS6-WB | - | - | _ | _ | | |
| 5 | Module connector | | | | | ms6-mv | |
| | MS6-MV | _ | - | - | - | | |
| 6 | Mounting bracket | _ | _ | | _ | ms6-wp | |
| | MS6-WP | • | • | • | • | | |
| | Mounting bracket (not illustrated) | _ | _ | _ | _ | ms6-wp | |
| | MS6-WPB/WPE/WPM | • | • | • | • | | |
| 7 | Fully automatic, electrically actuated | _ | _ | | _ | 8 | |
| | condensate drain E2/E3/E4 | • | • | - | - | | |

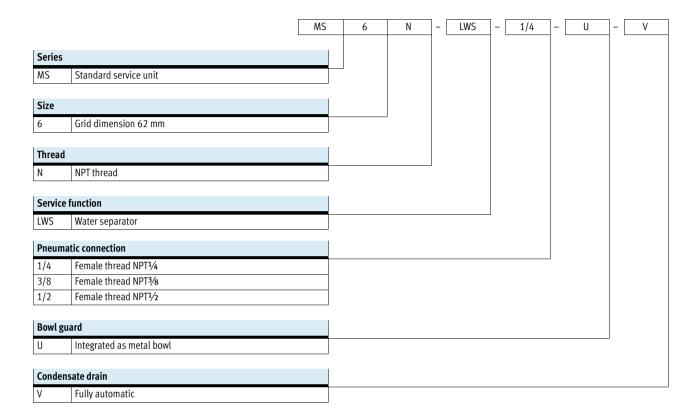
¹⁾ Module connector MS6-MV 5 or mounting bracket MS6-WP/WPB/WPE/WPM 6 is required for mounting.

Water separators MS6N-LWS, MS series, NPT



3

Type codes



Further variants can be ordered using the modular system → 8

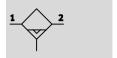
- Pneumatic connection
- Condensate drain
- Type of mounting
- Flow direction

Water separators MS6N-LWS, MS series, NPT

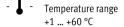
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Technical data

Condensate drain, fully automatic











The maintenance-free water separator removes condensate from the compressed air.

- Constantly high condensate separation (99%) up to the maximum flow rate
- Metal bowl

• Available with fully automatic or fully automatic, electrically actuated condensate drain

| General technical data | | | | | | | | | | |
|--------------------------------|--|--|--|--|--|--|--|--|--|--|
| Size | MS6 | | | | | | | | | |
| Pneumatic connection 1, 2 | | | | | | | | | | |
| Female thread | NPT ¹ / ₄ , NPT ³ / ₈ or NPT ¹ / ₂ | | | | | | | | | |
| Connecting plate AQ | NPT ¹ / ₄ , NPT ³ / ₈ , NPT ¹ / ₂ or NPT ³ / ₄ | | | | | | | | | |
| Constructional design | Centrifugal separator | | | | | | | | | |
| Type of mounting | Via accessories | | | | | | | | | |
| | In-line installation | | | | | | | | | |
| Mounting position | Vertical ±5° | | | | | | | | | |
| Air purity class at the output | Compressed air in accordance with ISO 8573-1:2010 [7:7:4] (with variant E2, E3 or E4: [-:7:4]) | | | | | | | | | |
| Bowl guard | Integrated as metal bowl | | | | | | | | | |
| Condensate drain | Fully automatic | | | | | | | | | |
| | Fully automatic, electrically actuated | | | | | | | | | |
| Degree of condensate [%] | 99 | | | | | | | | | |
| separation | | | | | | | | | | |
| Max. condensate volume [ml] | 38 | | | | | | | | | |

| Standard nominal flow rate qnN ¹⁾ | | | | | | | | | | |
|--|--------|--------|---------------------------------|--|--|--|--|--|--|--|
| Size MS6 | | | | | | | | | | |
| Pneumatic connection | NPT¹/₄ | NPT3/8 | NPT ¹ / ₂ | | | | | | | |
| qnN [l/min | 2,400 | 3,500 | 3,800 | | | | | | | |

1) Measured at p1 = 6 bar and Δp = 1 bar

| Operating and environment | al condition | ns | | | | | | |
|------------------------------|------------------|---|---|--|--|--|--|--|
| Condensate drain | | Fully automatic | Fully automatic, electrical | | | | | |
| | | V | E2/E3/E4 | | | | | |
| Size | | MS6 | MS6 | | | | | |
| Operating pressure | [bar] | 2 12 | 0.8 16 | | | | | |
| Operating medium | | Compressed air in accordance with ISO 8573-1:2010 [7:-:-] | Compressed air in accordance with ISO 8573-1:2010 [-:-:-] | | | | | |
| | | Inert gases | | | | | | |
| Ambient temperature | [°C] | +5 +60 | +1 +60 | | | | | |
| Temperature of medium | [°C] | +5 +60 | +1 +60 | | | | | |
| Storage temperature | [°C] | -10 +60 | +1 +60 | | | | | |
| Corrosion resistance class C | RC ¹⁾ | 2 | | | | | | |
| Food-safe ²⁾ | | See supplementary material information | - | | | | | |

Corrosion resistance class CRC 2 to Festo standard FN 940070 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Additional information www.festo.com/sp

Certificates.

Water separators MS6N-LWS, MS series, NPT

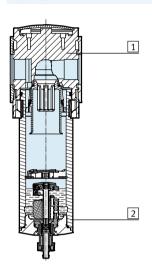


Technical data

| Weight [g] | |
|--|-------|
| Size | MS6 |
| Water separator | 820 |
| Water separator with fully automatic, | 1,800 |
| electrically actuated condensate drain | |
| E2/E3/E4 | |

Materials

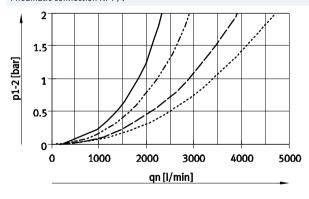
Sectional view



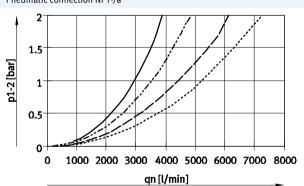
| Wate | Water separator | | | | | | | | | | |
|------|-------------------|-------------------------|--|--|--|--|--|--|--|--|--|
| 1 | Housing | Die-cast aluminium | | | | | | | | | |
| 2 | Bowl | Wrought aluminium alloy | | | | | | | | | |
| | Inspection window | PA | | | | | | | | | |
| - | Seals | NBR | | | | | | | | | |
| Note | on materials | RoHS-compliant | | | | | | | | | |
| | | Free of copper and PTFE | | | | | | | | | |

Standard flow rate qn as a function of differential pressure p1-2

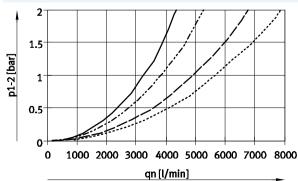
Pneumatic connection NPT1/4



Pneumatic connection NPT3/8



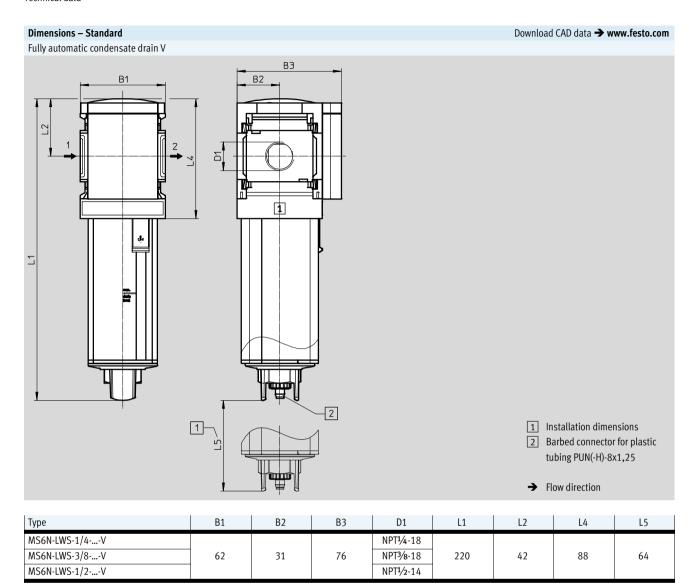
Pneumatic connection NPT1/2





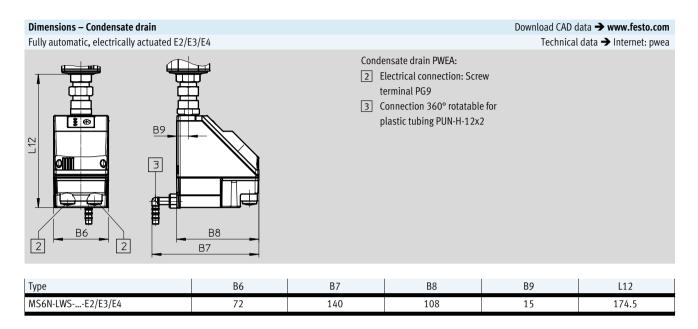
Water separators MS6N-LWS, MS series, NPT Technical data





Water separators MS6N-LWS, MS series, NPT Technical data





| Ordering data | | | | | | | | | | | | |
|-----------------|------------------|------------|----------|------------------|--|--|--|--|--|--|--|--|
| Size | Condensate drain | Connection | Part No. | Туре | | | | | | | | |
| Integrated as r | netal bowl | | | | | | | | | | | |
| MS6 | Fully automatic | NPT¹/₄ | 564871 | MS6N-LWS-1/4-U-V | | | | | | | | |
| | | NPT3/8 | 564872 | MS6N-LWS-3/8-U-V | | | | | | | | |
| | | NPT¹/2 | 564873 | MS6N-LWS-1/2-U-V | | | | | | | | |

Water separators MS6N-LWS, MS series, NPT Ordering data – Modular products



| 0r | dering table | | | | | |
|-----|-----------------|-----------------|--|--------|------|-------|
| Gri | id dimension | [mm] | 62 | Condi- | Code | Enter |
| | | | | tions | | code |
| M | Module No. | | 564898 | | | |
| | Series | | Standard | | MS | MS |
| | Size | | 6 | | 6 | 6 |
| | Thread | | NPT thread | | N | N |
| | Function | | Water separator | | -LWS | -LWS |
| | Pneumatic conn | ection | Female thread NPT1/4 | | -1/4 | |
| | | | Female thread NPT3/8 | | -3/8 | |
| | | | Female thread NPT1/2 | | -1/2 | |
| | | | Connecting plate NPT ¹ / ₄ | | -AQN | |
| | | | Connecting plate NPT3/8 | | -AQP | |
| | | | Connecting plate NPT1/2 | | -AQR | |
| | | | Connecting plate NPT3/4 | | -AQS | |
| | Bowl guard | | Metal bowl | | -U | -U |
| | Condensate dra | in | Fully automatic (P1 max. 12 bar) | | -V | |
| | | External, fully | 115 V AC, terminals (P1 max. 16 bar) | | -E2 | |
| | | automatic, | 230 V AC, terminals (P1 max. 16 bar) | | -E3 | |
| | | electric | 24 V DC, terminals (P1 max. 16 bar) | | -E4 | |
| 0 | Type of mountin | g | Mounting bracket standard design | 1 | -WP | |
| | | | Mounting bracket for attaching the service units | 1 | -WPM | |
| | | | Mounting bracket centrally at rear (wall mounting top and bottom), connecting plates not | | -WB | |
| | | | required | | | |
| | Flow direction | | Flow direction from right to left | | -Z | |

¹ **WP, WPM** Only with connecting plate AQN, AQP, AQR or AQS

| M | Mandatory data |
|---|----------------|
| 0 | Options |

| | Transfer order code | | | | | | | | | | | | | | | | |
|---|---------------------|--|----|---|---|---|-----|---|--|---|---|---|--|---|--|---|--|
| Ē | 64898 | | MS | 6 | N | - | LWS | - | | - | U | - | | - | | - | |