

LENO™ MSV-B

# **Saving time** is easy Just pack the **right tools**

#### 1. Easy mounting

Space inside buildings is money. The LENO<sup>TM</sup> is very compact and the handle is easy to remove so you need very little room for the installation. Conventional balancing valves need to be mounted in straight pipe to ensure accurate measurement. The LENO<sup>TM</sup> can be placed anywhere, e.g. just after an elbow, without influencing its accuracy.

### 2. Easy and accurate measuring

LENO $^{\mathbf{m}}$  has parallel measuring nipples – this enables two measuring needles to be mounted simultaneously. The digital scale is also readable from all angles. Furthermore, the precision of the valve is independent of the setting and much more precise than competing solutions.





#### 3. Easy set point locking

A simple tap on the top of the handle is enough to lock the LENO's setting. For more convenience we ship the LENO™ MSV-B with a green disposable key for unlocking. Simply press the green latch and the valve is unlocked. To make LENO™ tamper-proof a plastic tie-wrap (accessory) can be inserted, making it easily visible when the valve has been tampered with.

#### 4. Easy shut-off function

When the LENO™ MSV-B is locked, the valve becomes a ball valve. This feature has several advantages: The valve has zero leakage, opening and closing the valve is much easier because it takes only a quarter turn and closing the valve will not influence the setting in any way because the setting mechanism and the shut-off mechanism are completely separate. The position of the LENO™ (open or closed) is clearly shown by a red indicator.





LENO™ MSV-B valve with internal thread

| Туре           | K <sub>vs</sub> (m³/h) | Connection           | Code No. |
|----------------|------------------------|----------------------|----------|
| MSV-B DN 15 LF | 2.5                    | R <sub>p</sub> ½"    | 003Z4030 |
| MSV-B DN 15    | 3.0                    | R <sub>p</sub> 1/2"  | 003Z4031 |
| MSV-B DN 20    | 6.0                    | R <sub>p</sub> 3/4"  | 003Z4032 |
| MSV-B DN 25    | 9.5                    | R <sub>p</sub> 1"    | 003Z4033 |
| MSV-B DN 32    | 18                     | R <sub>p</sub> 11/4" | 003Z4034 |
| MSV-B DN 40    | 26                     | R <sub>p</sub> 1½"   | 003Z4035 |
| MSV-B DN 50    | 40                     | R <sub>p</sub> 2"    | 003Z4036 |

LENO™ MSV-B valve with external thread

| Туре           | K <sub>vs</sub> (m³/h) | Connection | Code No. |  |
|----------------|------------------------|------------|----------|--|
| MSV-B DN 15 LF | 2.5                    | G ¾ A*     | 003Z4131 |  |
| MSV-B DN 15    | 3.0                    | G ¾ A*     | 003Z4130 |  |

All LENO  $^{\text{\tiny{TM}}}$  MSV-B valves are made of DZR, corrosion resistant brass.

\* Eurocone DIN V 3838





## Choose the right product for you

|    | Features   | LENO™<br>MSV-BD | LENO™<br>MSV-B | LENO™<br>MSV-O | LENO™<br>MSV-S |
|----|--|-----------------|----------------|----------------|----------------|
| 1  | Balancing/Commissioning  | •               | •              | •              |                |
| 2  | Presetting   | •               | •              | •              |                |
| 3  | Fixed orifice  |                 |                | •              |                |
| 4  | Measuring nipples can be mounted under pressure                    | •               | •              | •              |                |
| 5  | Digital scale visible from more sides                              | •               | •              | •              |                |
| 6  | Shut-off function (ball valve)                                     | •               | •              | •              | •              |
| 7  | Draining/filling   | •               |                |                | •              |
| 8  | Draining/filling on both sides of the valve                        | •               |                |                |                |
| 9  | Removable handle   | •               | •              | •              | •              |
| 10 | Allen key for ball valve   | •               | •              | •              |                |
| 11 | Parallel measuring nipples   | •               | •              | •              |                |
| 12 | 360° rotating measuring station (drain cock and measuring nipples) | •               |                |                |                |
| 13 | Not affected by turbulence   | •               | •              | •              | •              |
| 14 | Opening/closing indicator  | •               | •              | •              |                |





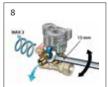


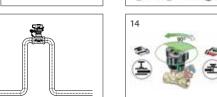




















## It is also possible to buy set solutions

To save you time and simplify logistics, Danfoss has bundled up the perfect match of LENO TM valves in order to propose LENO TM sets.

If that sounds interesting to you, please ask your wholesaler about code numbers listed in the table to the right.

#### LENO™ MSV-BD/S set solution

| Туре           | K <sub>vs</sub> (m³/h) | Drain flow<br>K <sub>vs</sub> (m³/h) | Connection           | Code No. |
|----------------|------------------------|--------------------------------------|----------------------|----------|
| MSV-BD/S DN 15 | 3.0                    | 0.3                                  | R <sub>p</sub> ½"    | 003Z4051 |
| MSV-BD/S DN 20 | 6.0                    |                                      | R <sub>p</sub> 3/4"  | 003Z4052 |
| MSV-BD/S DN 25 | 9.5                    |                                      | R <sub>p</sub> 1"    | 003Z4053 |
| MSV-BD/S DN 32 | 18.0                   |                                      | R <sub>p</sub> 11/4" | 003Z4054 |
| MSV-BD/S DN 40 | 26.0                   |                                      | R <sub>p</sub> 1½"   | 003Z4055 |
| MSV-BD/S DN 50 | 40.0                   |                                      | R <sub>p</sub> 2"    | 003Z4056 |

All LENO™ valves are made of DZR, corrosion resistant brass.

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