



Manual balancing Flow indicator

Description

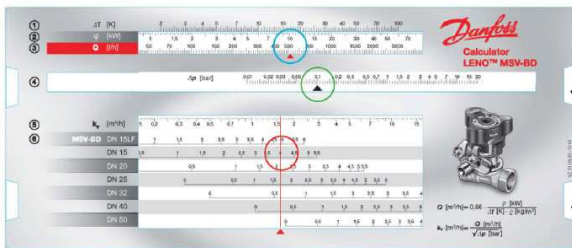
The flow indicator is a new simple measuring device for measuring flow and pressure in heating, cooling and domestic hot water systems. The flow indicator consists of a differential pressure gauge and a slide ruler, which enables the pressure to be calculated into flow. The slide ruler has been developed for Danfoss balancing valves. The slide rulers can also help determine the presetting of balancing valves.

Applications

Find the presetting

Given: LENO™ MSV-BD 15, desired flow 500 l/h

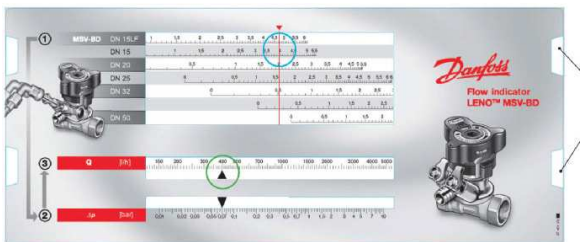
Desired: Presetting



- Move 1st ruler to the desired flow e.g. 500 l/h or 10 kW.
- Move 2nd ruler to the desired differential pressure (Δp), e.g. 0.1 bar.
- Presetting can be read where the scale of LENO™ MSV-BD 15 is crossing the red line, in this example presetting = 4.

Determine the flow

Find out the dimension of the installed LENO™ MSV-BD valve and read the actual presetting (here DN 15 and presetting 4).



- Move 1st ruler to read presetting = 4
- Read differential pressure on manometer, e.g. 0.07 bar.
- Move 2nd ruler to 0.07 bar, and read flow = 400 l/h
- To balance 500 l/h, change the presetting or regulate the differential pressure.
- Move 1st ruler to 500 l/h, and read new presetting = 4.5
- Or adjust the differential pressure at the pump.

The flow indicator can be used for manual balancing valves and partner valves for ASV:

- Leno™
- ASV-I
- ASV-BD
- USV-I
- MSV-F2

Ordering

Product code numbers




Type	Static pressure [bar]	Differential pressure range [bar] [Min]	Differential pressure range [bar] [Max]	Code number
Flow Indicator	10	0.00	1.00	003L8310

Note:

The kit includes:

- differential pressure gauge & slide ruler,
- 2 pcs. of quick coupling sockets G1/4" with push-in fitting nipple,
- blue measuring hose (1.5 m / 6 × 1 mm),
- red measuring hose (1.5 m / 6 × 1 mm),
- 2 pcs. of measuring needles with ball valve and push-in fitting elbows.

Accessories code numbers

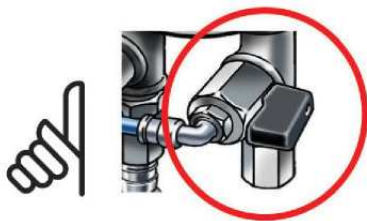
Type		Code no.
2 pcs. of quick coupling sockets G1/4" with push in fitting nipple		003L8315
Measuring hoses, 2x1.5m		003L8261
Measuring needle with ball valve and push in fitting elbows		003L8262
Strap		003L8324
Slide ruler (LENO™ MSV-BD/B and ASV-BD)		003L8319
Slide ruler (USV-I and ASV-I)		003L8321
Slide ruler (MSV-F2)		003L8320

Functions

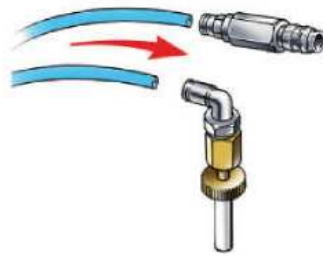
Operation

How to Measure

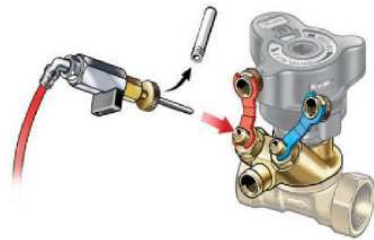
Measure the differential pressure



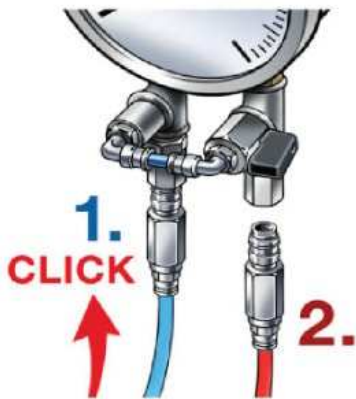
1. Make sure bypass is **open**



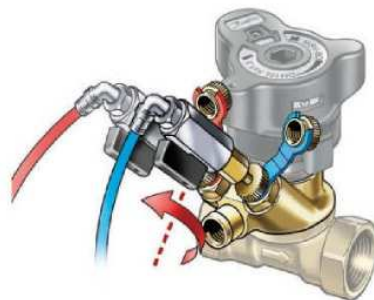
2. Fit connectors onto the hoses



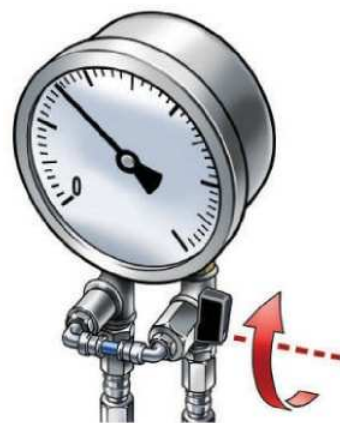
3. Fit hoses to MSV-BD



4. Fit hoses to manometer

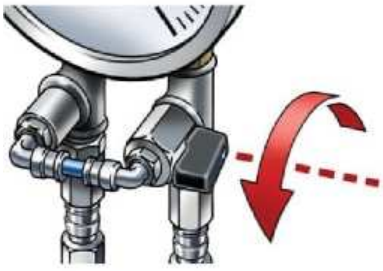


5. Open ball valves, **first blue** then

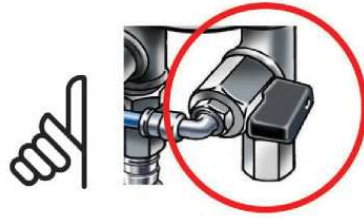


6. Close bypass and read pressure and process with flow indicator

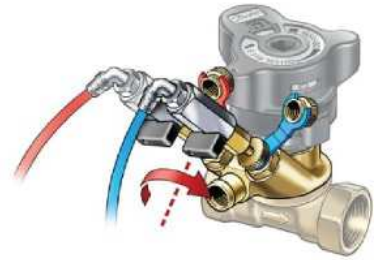
Dismounting



1. Open bypass



2. Make sure bypass is open



3. Close ball valves



4. Remove hoses



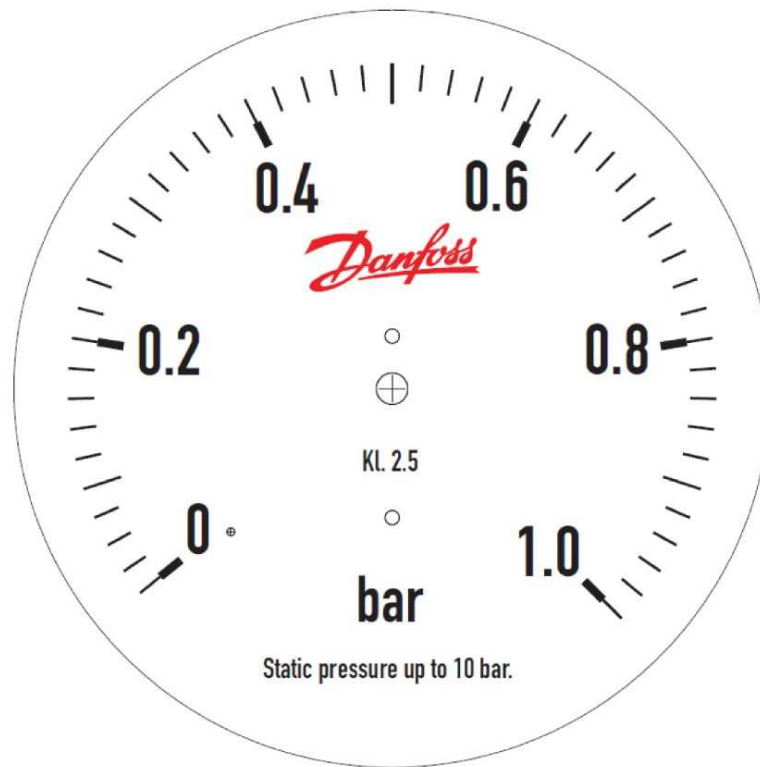
5. Align pressure, first red

Product details

General data

Item	Value
Pressure range	0-1 bar
Max static pressure	10 bar
Reliability, linearity and hysteresis error	2.5%
Medium temperature	-5 to 150°C
Calibration	When pointer in wrong position

Design



Certificates, declarations and approvals

The list contains all certificates, declarations, and approvals for this product type. Individual code number may have some or all of these approvals, and certain local approvals may not appear on the list.

When you click on the link you will be directed to the latest version of the 'Declaration of Conformity'. Products developed and sold before this date of issue conform to the directives/standards in force at the time of their sale.

Approval type	Title	Certification body	Approval topic
Export Control Declaration	Measuring equipment, flow indicator, room controller	Danfoss	

Contact details

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