MECON
SAFETY CONTROL

TURBO-LUX® 2

Fire pump flowmeter - Wafer version for test lines in fire protection systems

VdS

made in Germany

ADVANTAGES

- Easy installation and handling
- Visualizing of water flow
- Strong vibration resistance
- High and consistent reading accuracy
- Optionally available with calibration certificate

The Turbo-Lux® 2 fire pump flowmeter offers you proven technology in a wafer version. Enjoy minimal installation effort and exceptional measurement accuracy – all at reduced acquisition costs compared to its predecessor.

The Turbo-Lux® 2 is specifically designed for use in fixed water fire extinguishing systems and is VdS approved. With its flexible installation orientation and flow direction, the device perfectly adapts to your requirements.

Use the orifice flowmeter for all installed orifice plates ranging from DN 80 ... DN 250, with measurement ranges of 420 ... 18 000 l/min (111 ... 4 755 USgpm).

It is easy to install and remove.

The advantages of the Turbo-Lux® 2 include its long service life, strong vibration resistance and excellent reading accuracy.

Enhance your device with an optional centering ring kit for simplified installation or a calibration certificate to get even more out of your Turbo-Lux® 2.

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TECHNICAL DATA

System

Measuring principle	Orifice plate as differential pressure generator with cariable area bypass flowmeter
Measurement range	420 ... 18 000 l/min (111 ... 4 755 USgpm)
Measuring accuracy	± 2.5 % of full scale value (VdS)
Certificates	VdS G 4060003

Input

Nominal diameter	DN 80, PN 16
	DN 100, PN 16
	DN 150, PN 16
	DN 200, PN 10/16
	DN 250, PN 10/16
Pressure limits	Max. 16 bar (232 psi)

Application conditions

Temperature	4 °C ... 50 °C (39 ... 122 °F)
Medium	Water

Constructive design

Orifice plate	Aluminium
Differential pressure tube	Brass
Float	Stainless steel
Bypass orifice	Stainless steel
Filter	Stainless steel
Gasket	NBR

DIMENSIONS AND WEIGHTS

Nominal diameter	A (mm / in)	ØD (mm / in)	Weight (kg / lbs)
DN 80, PN 16	130 / 5.1	138 / 5.4	1.3 / 2.9
DN 100, PN 16	140 / 5.5	158 / 6.2	1.6 / 3.5
DN 150, PN 16	165 / 6.5	212 / 8.4	2.1 / 4.6
DN 200, PN 10/16	190 / 7.5	268 / 10.6	3.0 / 6.6
DN 250, PN 10/16	215 / 8.5	320 / 12.6	4.0 / 8.8
Bypass flowmeter	-	-	0.7 / 1.5

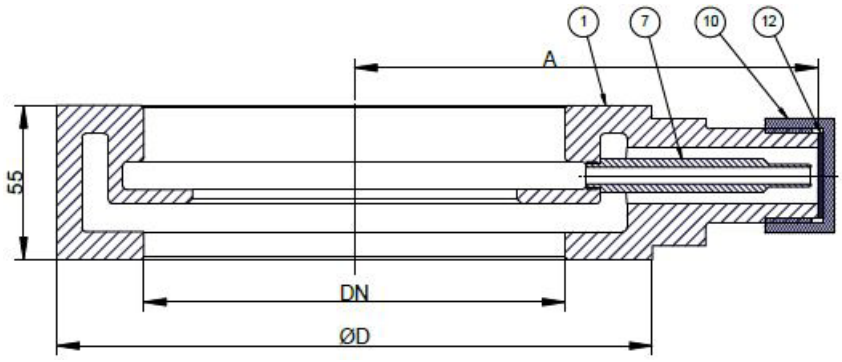
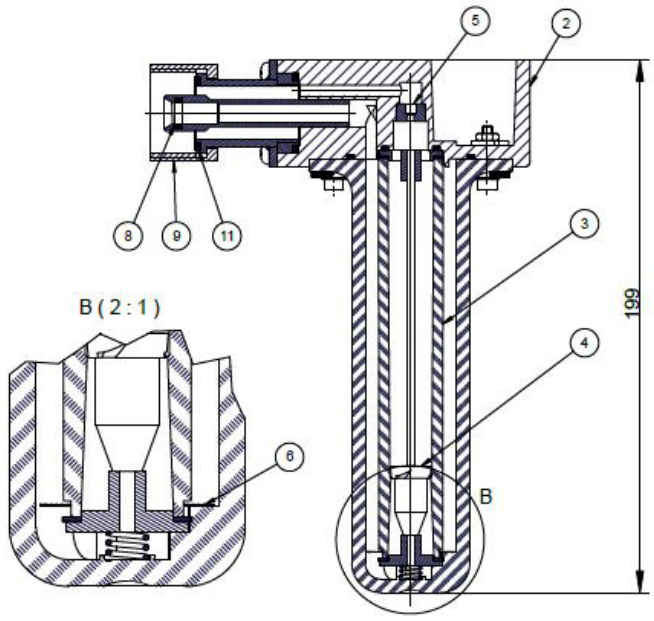


Fig. 1: Position drawing orifice plate



① Orifice plate
② Bypass flowmeter
③ Measuring tube
④ Float
⑤ Bypass orifice
⑥ Filter
⑦ Differential pressure
⑧ O-Ring
⑨ Screw cap
⑩ Cap
⑪ O-Ring
⑫ Gasket

Fig. 2: Position drawing bypass orifice

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PRODUCT AND ACCESSORIES

Order code	Description
7ME5834-0AB00-0AA0	Bypass flowmeter Turbo-Lux® 2
7ME5834-0AB00-1AA0	Bypass flowmeter Turbo-Lux® 2 with accuracy certificate
7ME5830-Adapter-M30-G1	Adapter M30 x 1.5 to G1[1]
7ME5834-0AA10-0AA0	Transport case
7ME5834-0AA01-0AA0	Replacement cap incl. gasket

[1]For connecting a Turbo-Lux® bypass flowmeter to a grooved Turbo-Lux® 3 orifice plate

ORIFICE PLATES AND ACCESSORIES

Order code	Description	Connection / Measurement range
7ME5834-1AA00-0AA0	Orifice plate[2]	DN 80, PN 16 Qv: 0.42 - 2.1 m³/min
7ME5834-2AA00-0AA0	Orifice plate[2]	DN 100, PN 16 Qv: 0.6 - 3.0 m³/min
7ME5834-3AA00-0AA0	Orifice plate[2]	DN 150, PN 16 Qv: 1.2 - 6.0 m³/min
7ME5834-4AA00-0AA0	Orifice plate[2]	DN 200, PN 10/16 Qv: 2.4 - 12.0 m³/min
7ME5834-5AA00-0AA0	Orifice plate[2]	DN 250, PN 10/16 Qv: 3.6 - 18.0 m³/min
7ME5834-0BA00-0AA0	Centering kit orifice plate[2]	DN 80, PN 16
7ME5834-0CA00-0AA0	Centering kit orifice plate[2]	DN 100, PN 16
7ME5834-0EA00-0AA0	Centering kit orifice plate[2]	DN 150, PN 16
7ME5834-0FA00-0AA0	Centering kit orifice plate[2]	DN 200, PN 10
7ME5834-0KA00-0AA0	Centering kit orifice plate[2]	DN 200, PN 16
7ME5834-0GA00-0AA0	Centering kit orifice plate[2]	DN 250, PN 10/16

[2] For installation between flanges

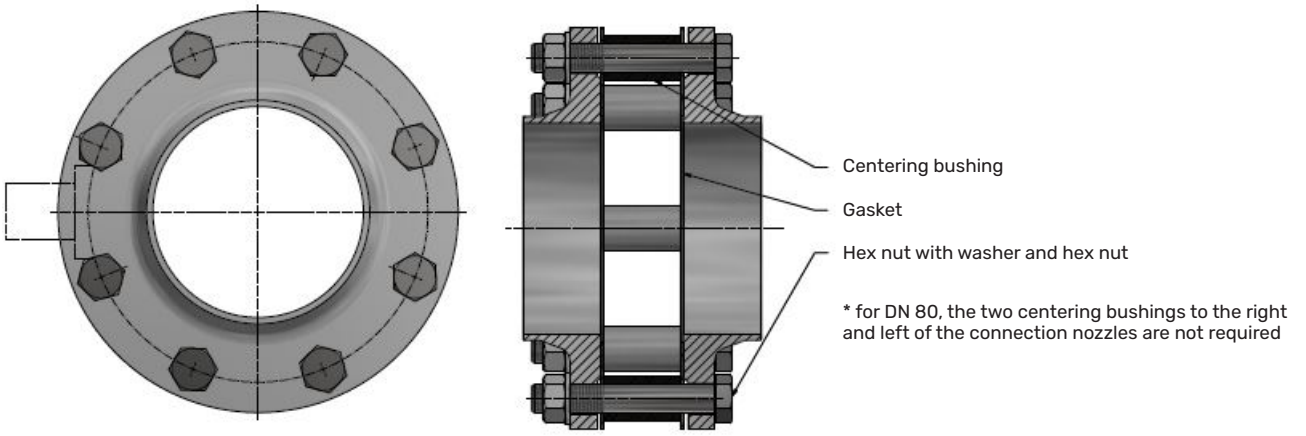

Fig. 3: Centering kit for wafer version