

TECHNICAL DATA

Reproducibility (electronics)	0.125% of reading
System accuracy (electronics)	0.25% of reading + 0.025% of full scale
Measuring accuracy (depending on application and calibration)	2.5% of reading + 0.2% of full scale (1% of reading + 0.1% of full scale as an option only)
Flow range (1013 mbar, 0°C)	0.25 – 25 Nm/s (0.25 – 240 Nm/s as an option only)
Turndown ratio	Up to 100 : 1
Field display / control (option only)	<ul style="list-style-type: none"> • 8 digits, alphanumeric LED display for field indication of actual flow rate or totalized flow • Integrated totalizer • Control pad for field programming of the flowmeter using a magnetic pin • easy-to-use menu for transmitter set-up
Graphic display (optional)	<ul style="list-style-type: none"> • remote graphic display (wall or switch cabinet mounting) • simultaneous indication of flow rate and totalized flow • Integrated totalizer • touch pad for easy programming of the flowmeter • easy-to-use menu for transmitter set-up
Signal output (isolated)	<p>1 x analog output: 4-20 mA, active load < 400 Ohm 10 Bit resolution</p> <p>1 x pulse output: field selectable, max. 2 pulses/sec.</p>
Choice of sensors (option)	<p>Transmitter can be combined with different sensors of the COMBIMASS® series:</p> <p>Sensor geometry: 2 Pin (Standard for damp gases)</p> <p>Process temperature: max. 130°C</p> <p>Operating pressure: 0.9 – 1.3 bara</p> <p>Diameter of sensor rod: 12 mm</p> <p>Materials: 1.4571</p> <p>Certificates: 3.1B material certificate (as an option)</p> <p>Process connections: Compression fitting (standard)</p> <p>Hot tapping: manually operated with ball valve and further measures to sample biogas from process pipe</p>

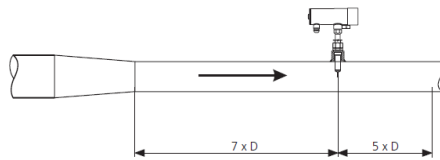
INLET AND OUTLET STRAIGHT PIPE RUNS

General information To achieve high accuracy in flow rate measurement as specified, consideration of sufficient inlet and outlet straight pipe runs according to DIN ISO 5167-1 is crucial during installation of the flow transmitter. Reasonable measuring results can also be achieved with shortened inlet and outlet straight pipe runs according to the below specifications.

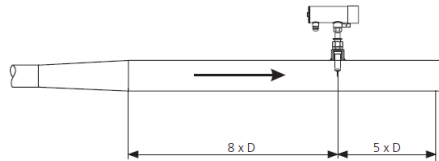
If sufficient inlet and outlet straight pipe runs are not available, please call factory. It might be possible to achieve the required measurement accuracy, if a special calibration can be carried out at our CAMASS® calibration centre by simulating the actual operating conditions, the range of flow rates and the piping.

Alternatively, the installation of a COMBIMASS® flow conditioner may allow, to achieve accurate measuring results when space is restricted.

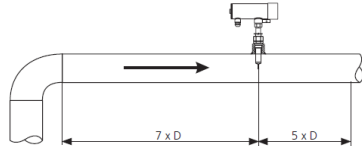
Reduction pieces



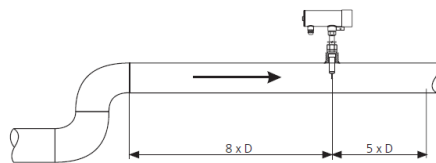
Extension pieces



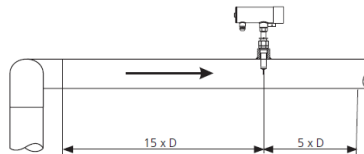
One 90° elbow



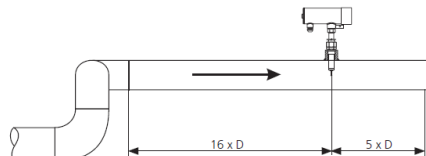
Two 90° elbows in one plane



Two 90° elbows in two planes

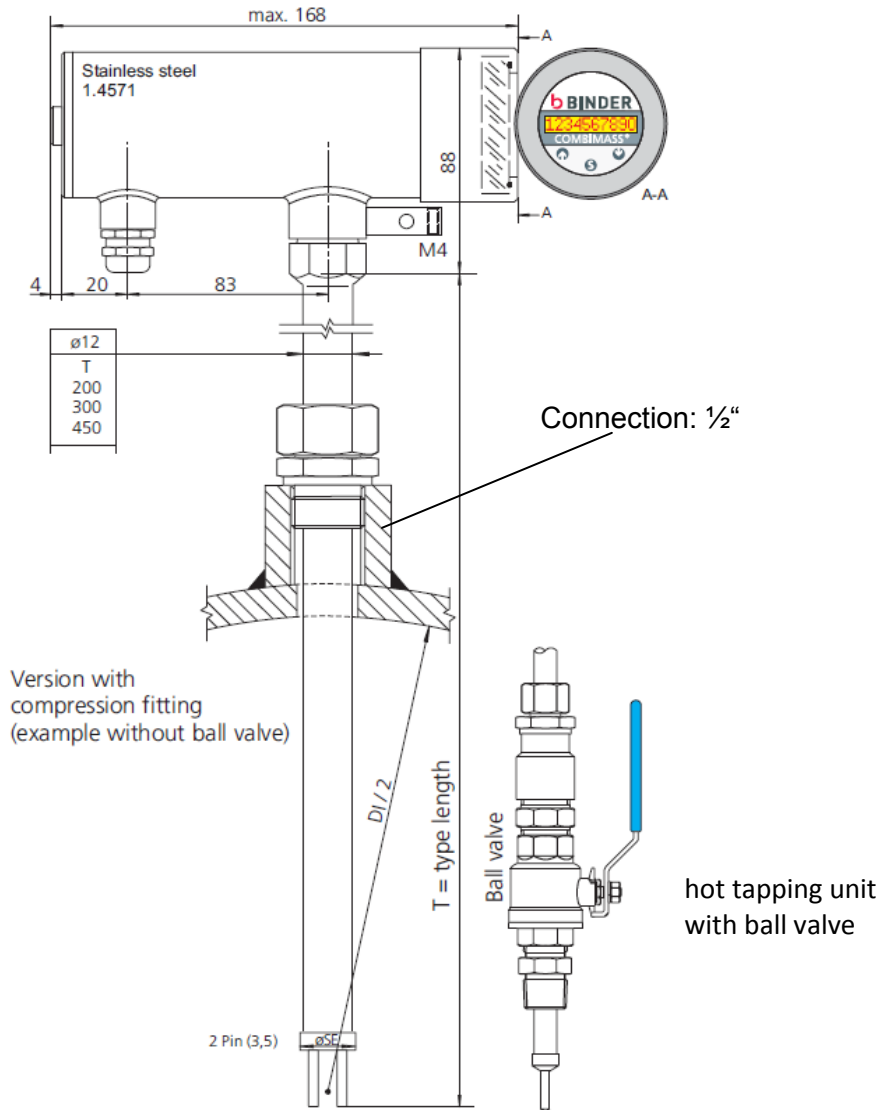


Three 90° elbows in three planes



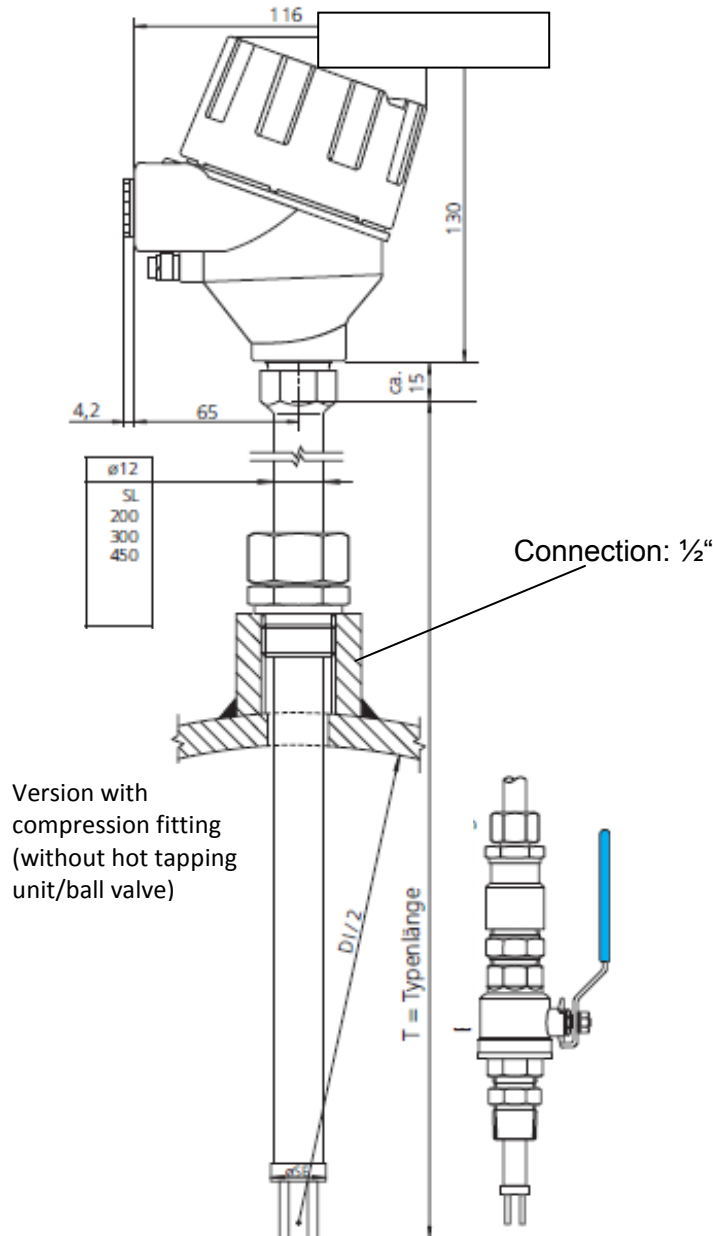
DIMENSIONS

Eco-bio+ with stainless steel housing for the installation in ex-zone 1 – preferred installation in wet gases in horizontal pipes from the side



DIMENSIONS

Eco-bio+ with aluminum housing for the installation in ex-zone 2– preferred installation in wet gases in horizontal pipes from the side



IMPRESSUM

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BIDE-M-D-COMBIMASS ECO-BIO PLUS-EN-R05

Datenblatt COMBIMASS Eco Bio Plus