

ILVA20 and MVT10 Flowmeter System

Robust and reliable

With precision cone profiling and an Inconel alloy spring, the ILVA20 is a robust meter that is designed with steam in mind.

Serviceable

Stem and 2 way valve assembly allows easier connection & disconnection of sensors, prevents dirt build up in DP cell and provides fill points.

ILVA20



High accuracy, high turndown

Ensure that all of your flow rates are accurately captured with the best turndown on steam.

Short, straight runs

Cramped for space? The ILVA20 expertly handles pipeline swirl, allowing it to be installed where other meters can't.

Optional Flex hose

Easy interconnection which also allows flexible display location.

All the data you need

Mass and Energy flow rates, including totalisers.

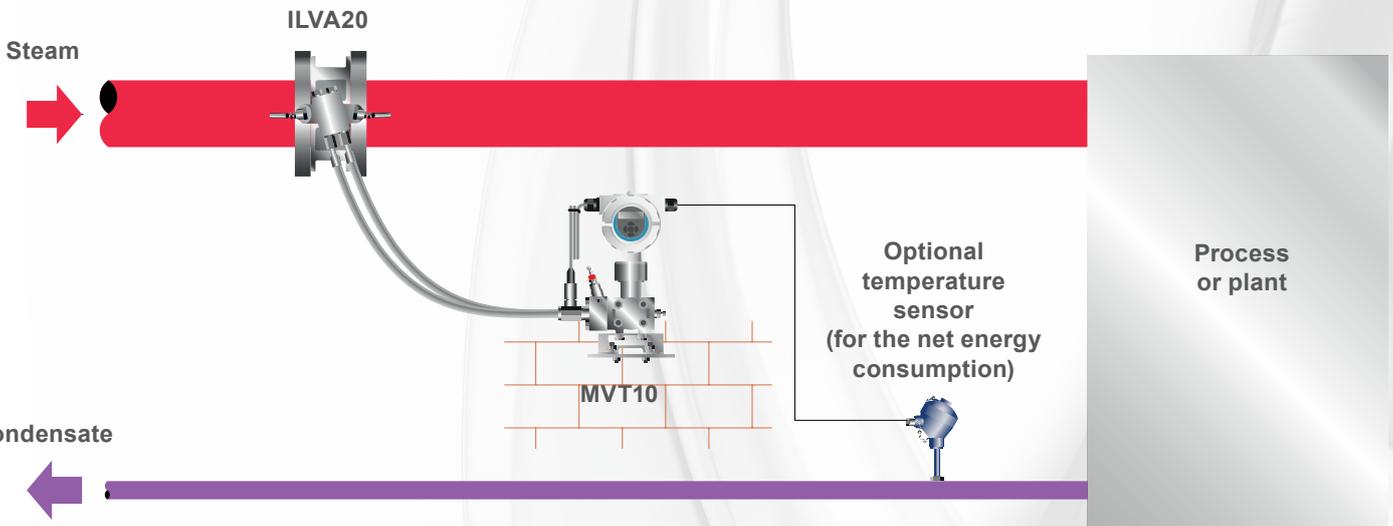
Data transmission

Process and diagnostic data available over a number of channels:
4-20mA
Pulse
Modbus RTU

Net metering

With an additional condensate temperature sensor, the MVT10 will calculate the net energy consumption of steam/condensate systems.

MVT10



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How has ILVA20 been designed for steam?

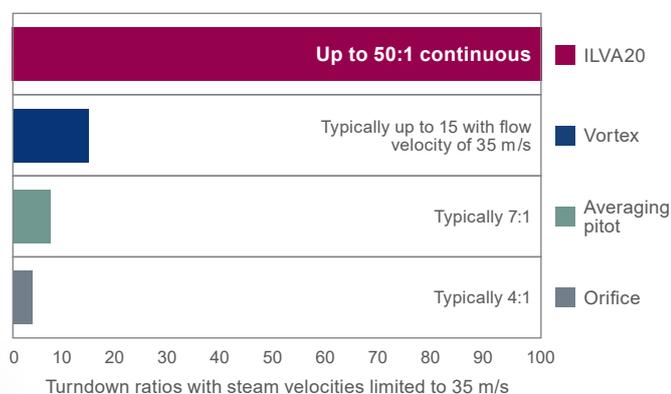
The benefit of high turndown

Due to its profiled cone and spring, the ILVA20 is able to measure from full flow down to very low flowrates with a turndown of 50:1. This means that the ILVA20 continues to measure where other technologies with a lower turndown cannot. With the ILVA20, off peak and low demand flow is metered just as accurately as higher flowrates. This gives the benefit that the true flow measurement, and therefore costs are known.

The ILVA20 has also been designed to work at flow velocities consistent with steam pipe sizes. This makes your job of choosing the correct size a lot easier.

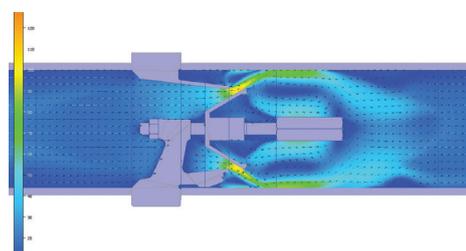
Turndown ratio comparison of flow technologies on saturated steam

Measuring from minimum to maximum flowrates (turndown).

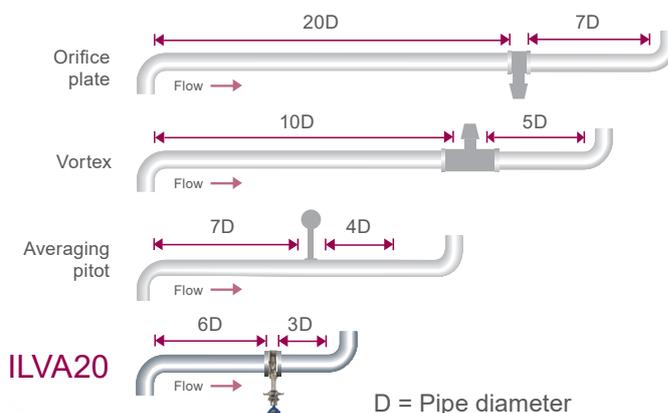


The benefit of compact installation

The ILVA20 profiles the flow, nullifying the effects of pipeline swirl which can adversely affect flow measurement. This allows installation where only very short upstream and downstream pipe lengths are available. It achieves this by flattening the profile of the flow stream as it enters and leaves the flowmeter (see diagram below).



The compact wafer design of the ILVA20 Flowmeter also means that its installed length is much shorter than almost any other technology. It can be installed close to pipe bends, valves or other components that would prevent other types of flowmeter being fitted, as shown in the diagram below.



To find out more about our full range of flowmetering products visit spiraxsarco.com

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