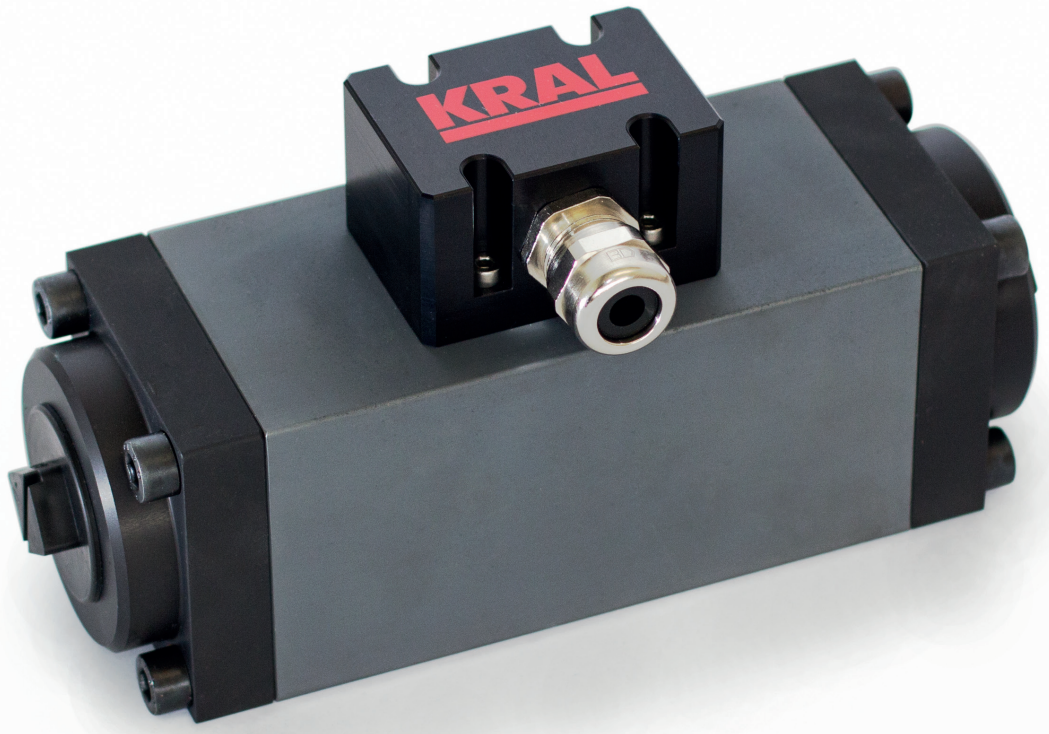
Flow Measurement



KRAL Volumeter® OME Compact.

High precision flowmeter absolutely affordable.

High accuracy.
Because of the precision measurement chamber, extremely accurate measurements of 0,1 % are possible. The turn-down ratio is 150:1.

No flow conditioning.
Neither up- nor downstream flow conditioners are required. Pipe elbows and T-pieces don't influence the measurement accuracy.

Minimal pressure loss.
Because of the high quality ball bearings, friction and pressure loss are low.

Bi-directional measurement.
Because of the operating principle, KRAL Volumeter can measure bi-directional. The new sensor detects reverse flow. Temperature sensor is included.
The electronic unit BEM uses the flow direction information to calculate a precise measuring value.

Fast response measurement.
The fast response spindles can follow any rapid fluctuations in the flow.

Industry standard output signal.
Flow sensor output are two square waves with 90° desynchronization for flow direction detection.

Simple clear wiring.
The wiring clearly indicated. The junction block ensures a non-interchangeable match to the KRAL electronic BEM.

Various connections.
Pipe thread, BSPP, NPT.
DIN, ANSI, SAE and JIS flange.

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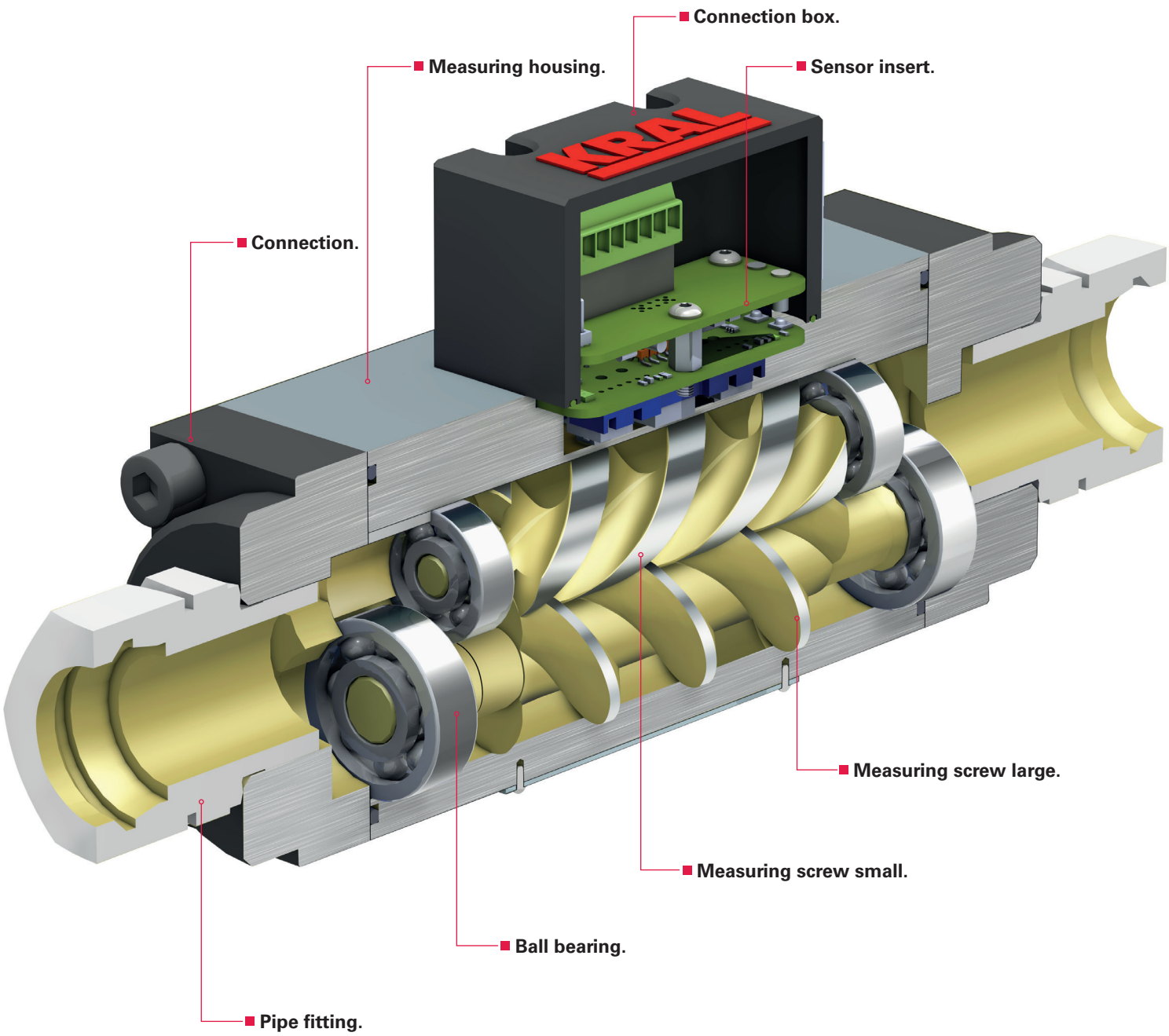

Technical Data.

OME Compact series.		OME 13	OME 20	OME 32	OME 52
Flow					
Q_{max}	l/min	15	45	150	525
Q_{nom}	**l/min**	**10**	**30**	**100**	**350**
Q_{min}	l/min	0,1	0,3	1	3,5
Pressure					
p_{max}	bar	40	40	40	40
Temperature					
t_{min} to t_{max}	°C	-20 to +125	-20 to +125	-20 to +125	-20 to +125
Viscosity					
v_{min} to v_{max}	mm^2/s	1 to $1x10^6$	1 to $1x10^6$	1 to $1x10^6$	1 to $1x10^6$
K-Factor	K1 [P/l]	1214	321	78	17,73
Frequency	f1 to Q_{nom} Hz	202	161	130	104

Clear advantages:

- A three in one solution – combines flow direction, detection and temperature measurement in one sensor including a terminal connector.
- Flow range from 0,1 to 525 l/min.
- Max. operating temperature 125 °C.
- Max. design pressure 40 bar.
- Accuracy of ±0,1% within the range 1:10.
- PNP and Pt100 output.

Flow Measurement

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