Flow Measurement

KRAL

KRAL Volumeter OMP.

The new standard in fuel consumption measurement.

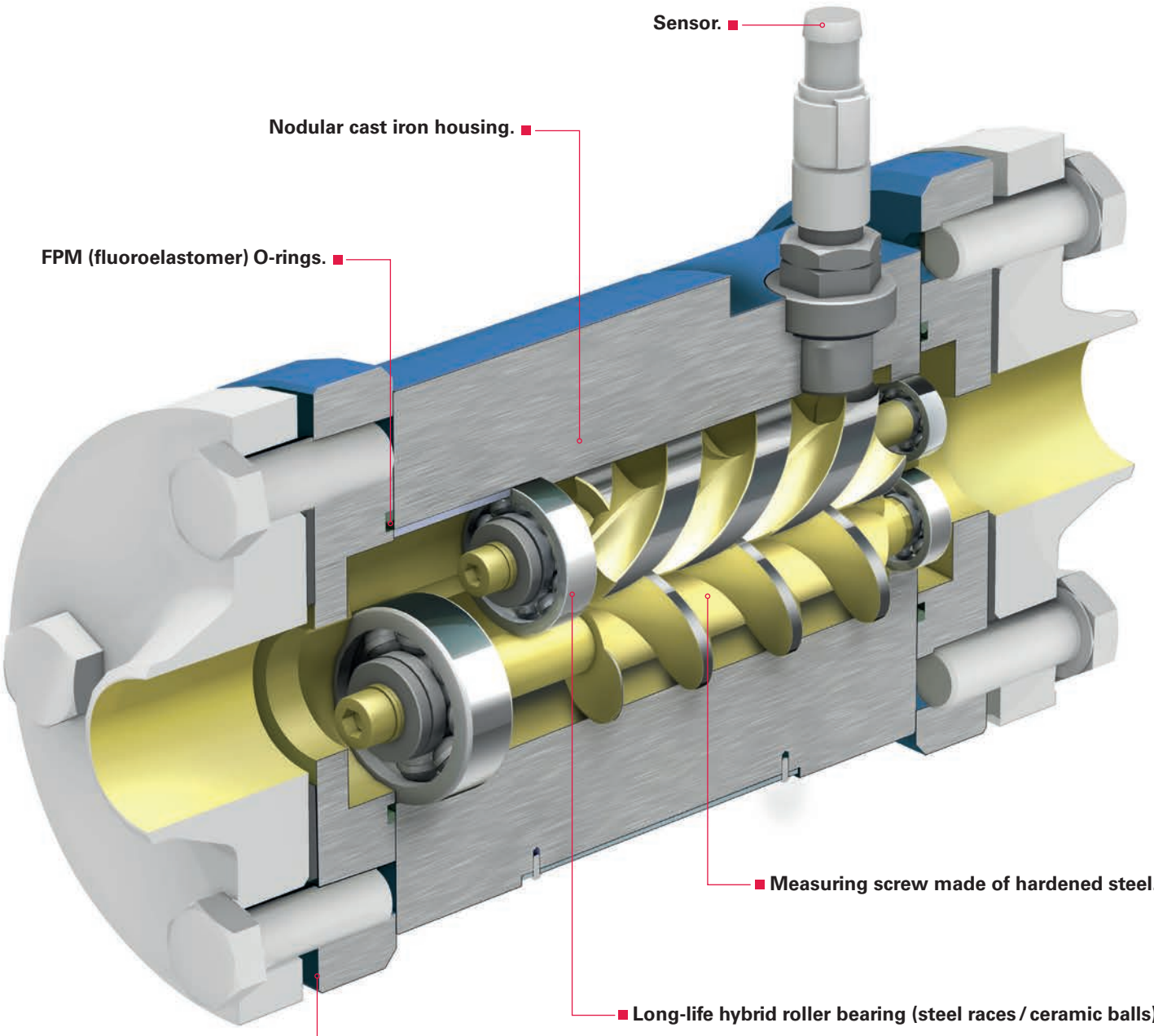
AUSTRIA IS GREEN.
KRAL THINKS GREEN.

WE RESPECT THE NATURAL ENVIRONMENT
IN WHICH WE WORK AND LIVE.

OUR FLOWMETERS FOR LOW
SULFUR FUELS ARE PROOF OF THAT.

www.kral.at
www.kral-usa.com

Flow Measurement



Clear Advantages.

The new OMP is made to measure fuel consumption.

Highly accurate.
The precision measurement chamber makes extremely accurate measurements to 0.1% possible. The turn-down ratio is 150:1.

Robust and precise.
The solid casing protects the precisely manufactured spindles – the OMP offers both robustness and precision.

Fast response measurement.
The fast response spindles track any fluctuations in flow. Every drop counts.

No flow conditioning.
Upstream or downstream flow conditioners are not required. Pipe elbows and T-pieces do not influence measurement accuracy.

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

OEM.
OEM pricing is available.

- Customized for fuel consumption measurement applications, including booster module and burner/boiler.
- Flow range from 0.3 to 525 l/min.
- Max. operating temperature 125 °C.
- Max. design pressure 40 bar.
- Accuracy of ±0.1% within the range 1:10.
- PNP or NAMUR output.
- Standard with hybrid bearings – robust and long life.

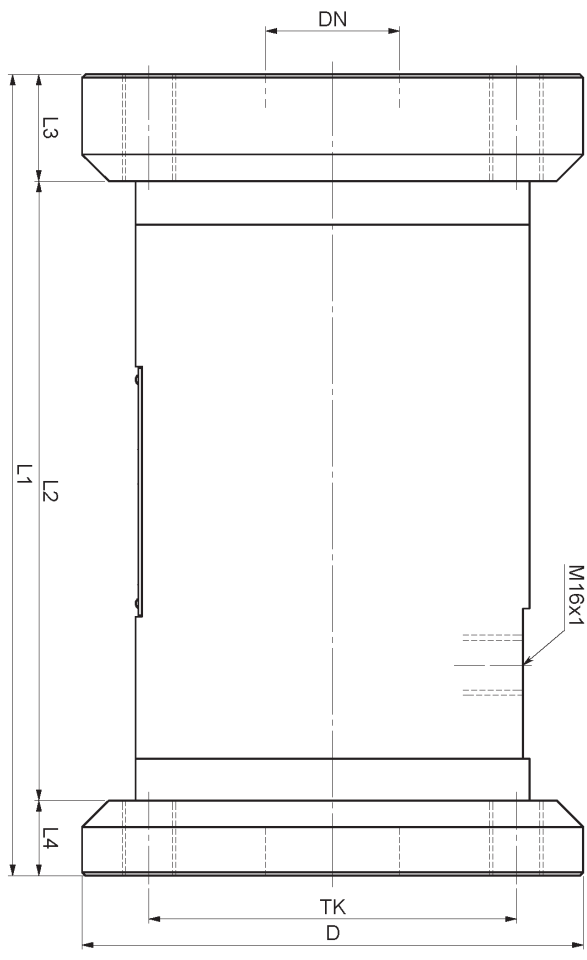
Dimension Information.

DIN, ANSI and JIS flowmeter connections.

DIN dimensions.		OMP 20	OMP 32		OMP 52
DN		20	25	32	40
Pressure stage	[bar]	40	40	40	40
D	[mm]	105	115	140	150
TK	[mm]	75	85	100	110
L1	[mm]	125	180	190	240
L2	[mm]	85.0	140.0	140.0	185.5
L3	[mm]	20	20	25	32
L4	[mm]	20.0	20.0	25.0	22.5
Weight	[kg]	5.0	11.2	13.5	19.2

ANSI dimensions.		OMP 20	OMP 32	OMP 52
DN	[in]	3/4“	1“	1 1/2“
Class		300	300	300
D	[mm]	117.5	123.8	155.6
TK	[mm]	82.5	88.9	114.3
L1	[mm]	134	195	245
L2	[mm]	85.0	140.0	185.5
L3	[mm]	24.5	27.5	32.0
L4	[mm]	24.5	27.5	27.5
Weight	[kg]	6.0	12.5	19.6

JIS dimensions.		OMP 20	OMP 32	OMP 52
DN		20	25	40
Pressure stage		16K	16K	16K
D	[mm]	100	125	140
TK	[mm]	75	90	105
L1	[mm]	125.0	190.0	260.0
L2	[mm]	85	140	215
L3	[mm]	20.0	25.0	22.5
L4	[mm]	20.0	25.0	22.5
Weight	[kg]	4.5	12.2	19.0



Every KRAL Volumeter® is calibrated and tested at the factory.

Two types of calibration are available. A KRAL standard factory calibration or alternatively a calibration which is in compliance with the internationally recognized and used standard ISO/IEC 17025.

Technical Data.

The size to fit your application.

OMP Series.		OMP 20	OMP 32	OMP 52
Flow				
Q_{max}	l/min	45	150	525
Q_{nom}	**l/min**	**30**	**100**	**350**
Q_{min}	l/min	0.3	1	3.5
Pressure				
p_{max}	bar	40	40	40
Temperature				
t_{min} to t_{max}	°C	-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 $1x10^6$
K-factor	K [P/l]	321	78	17.73
Frequency	f at Q_{nom} Hz	161	130	104

One Source.

KRAL electronics for flowmeter units.

KRAL BEM electronics.

Users of conventional universal display units often cannot make use of all of a device's options. There is likewise sometimes a lack of functionality that can be important in unique applications.

Enjoy improved performance when using KRAL electronic units in combination with KRAL Volumeter.

The high quality electronic components and evaluation algorithms used result in precisely measured flow values that are presented via the display as well as through signal outputs.

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