



Quality Assurance Engineering Scheme Certificate

Manufacturer **Kral GmbH**

Address Industrie Nord, Bildgasse 40, Lustenau, 6890, Austria

Scheme Type **Quality Assurance Scheme for Machinery (QAM)**

Approval Number **QAM186 / A01**

Product Type Flowmeters

Product Name Models: OMG/OMP

Product Type Screw Spindle Pumps

Product Name Models: K/CL/CK/CG/L/M/ALP/R/Z/DL/DS/DLC/DKC/DALP/DKB/F/G

This is to certify that the above named manufacturer has been approved by LR EMEA in accordance with the requirements set out in the Quality Assurance Scheme for Machinery (QAM) within the Lloyd's Register Rules and Regulations for the Classification of Ships.

The quality system and procedures at these works covering production methods, inspection and testing, quality control and general standards of workmanship have been examined and are approved for the manufacture of the undernoted product(s) at the stated place(s) of production.

Such items will be eligible for fitting in ships or other installations classed or intended for classification subject to satisfactory installation under the usual conditions of survey and testing.

This approval is conditional upon the product(s) manufactured and certified under this Scheme being in accordance with the relevant requirements of the Rules and Regulations for the Classification of Ships and the organisation and procedures being audited by the Surveyors at agreed intervals.

For details of the scope of approval see subsequent pages of this certificate.

This certificate is issued to the named manufacturer and is valid until the expiry date specified. Lloyd's

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to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Register is to be notified of any change that may affect the validity of this certificate and reserves the right to cancel or withdraw this certificate.

The Quality Assurance Scheme for Machinery is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations for the Classification of Ships are complied with.

Scope of products covered by the scheme:

1. Models: OMG/OMP

<u>Series:</u>	<u>Size:</u>	<u>Max. Cap. [l/min]</u>	<u>Max. Pressure: [bar]</u>
OMG	013 - 140	15 - 7500	40 - 250
OMP	013 - 052	15 - 525	40

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2. Models: K/CL/CK/CG/L/M/ALP/R/Z/DL/DS/DLC/DKC/DALP/DKB/F/G

<u>Series:</u>	<u>Size:</u>	<u>Max. Cap.: [l/min]</u>	<u>Max. Pressure: [bar]</u>
K	5 - 2900	3500	7 - <16 bar
CL	5 - 851	4250	> 16
CK	5 - 880	2100	> 16
CG	15 - 3550	4250	> 16
L	5 - 085	205	> 16
M	118 - 210	505	> 16
ALP	015 - 280	660	7 - ≤ 16
R	015 - 210	500	> 16
Z	3000 - 11000	13200	> 16
DL/DS	150 - 6000	130	0 - ≤ 6
DLC	450 - 9000	205	> 16
DKC	200 - 13000	280	7 - ≤ 16
DALP	0015 - 0085	205	7 - ≤ 16
DKB	200 - 13000	280	7 - ≤ 16
F	15 - 118		=< 120
G	15 - 951		=< 16