

LLOYD'S REGISTER TYPE APPROVAL
Issue by: Americas Technical Support Office
Issued to: Kobelt Manufacturing Company Limited
For: Hydraulic Helm Pumps
Types: Variable delivery models 7003, 7005 and 7012
Fixed delivery models 7004 and 7031
TYPE APPROVAL CERTIFICATE No.LR21106133TA

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System TA 14 Version 04 (September 2020) and this Design Appraisal Document forms part of the Certificate.

This certificate is a renewal of 16/00003 dated 07 January 2016.

APPROVAL DOCUMENTATION

TEST REPORTS:

Document No.	Rev	Title
SO78104	--	Helm Pump Test Procedure/Results
QF-075	1	Helm Pump Leak Test Report

DRAWINGS:

Document No.	Rev	Title
D7003	B	Helm Pump 1-3 in ³
C7004	J	Helm Pump 3.4 & 4.5 in ³
7004-ALX	K	Helm Pump, 4.5 in ³ , Fixed
7005-AL	F	Helm Pump, Var. Disp.,2-6 in ³
7012-AL	G	Helm Pump 4-12 in ³
C7031	D	Helm Pump 2 & 2.6 in ³
7003-0001-C	A	Casting, Front Housing
7003-0002-C	A	Casting, Rear Housing
7004-0001-C	A	Casting, Housing, Front
7004-0002-C	A	Casting, Housing, Rear
7005-0001-C	E	Casting, Front Pump Housing
7005-0002C	C	Casting, Rear Housing
7012-0001-C	H	Casting, Housing, Front
7012-0002-C	B	Casting, Housing, Rear
7031-0001-C	A	Casting, Housing, Front

Document No.	Rev	Title
7031-0002-C	A	Casting, Rear Housing

SUPPORTING DOCUMENTATION:

Document No.	Rev.	Title
--	22/October/2020	Production Quality Assessment Form Control No PRJ11100282945
SPC-003	B	Material Spécification – Die Cast Bronze C87800

General Comment:

This approval is limited to helm pump manufactured in material grade UNS C87800 Grade 2.

Materials to be in compliance with requirements to Lloyd's Register Tests, Survey and Certification Requirements for Bronze Castings, in accordance with Rules for Materials Chapter 9, Section 2.

Praveen Dwarakanath
 Assistant Specialist- Engineering Systems
 Americas Technical Support Office
 Lloyd's Register Canada Ltd.

Matthijs Breel
 Lead Specialist - Engineering Systems
 Rotterdam Technical Support Office
 Lloyd's Register, EMEA.

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.