

No. Fail: JBPM/IP/RNP: 700-7/2/28-66 (2)  
(BAHARU)

# SIJIL PEPASANGAN KESELAMATAN KEBAKARAN

APPROVAL CERTIFICATE

Jabatan Bomba dan Penyelamat Malaysia  
dengan ini memperakukan  
Fire and Rescue Department of Malaysia  
hereby certify

**FIXED FIRE FIGHTING PUMP SYSTEM  
'LEO' (END SUCTION/VERTICAL IN-LINE SPRINKLER PUMP)**


Berdasarkan Piawaian  
Complying with

**MS 2616:2015 & ISO 9906:2012**

**Syarikat Berdaftar**  
Registered company

**LEO PUMP ENGINEERING (M) SDN BHD (1414432-U)**  
**21 & 23 Jalan USJ 1/31,**  
**47600 Subang Jaya,**  
**Selangor DE.**

Tempoh sah perakuan: **22/12/2023 hingga 21/12/2025**

  
(KAMARULZAMAN MALIK ABDULLAH)  
Pengarah  
Bahagian Perancangan dan Penyelidikan,  
b.p. Ketua Pengarah  
Jabatan Bomba dan Penyelamat Malaysia.

Tarikh: 28 Mac 2024

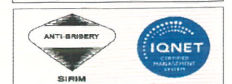
**\*\* PERINGATAN:**

Syarat-syarat dan had kegunaan seperti di **Lampiran A1** hendaklah dipatuhi sepenuhnya.

**SPESIFIKASI PAM & MOTOR DARI  
JENIS DIUJI SAHAJA.**



CERTIFIED TO ISO 9001:2015  
CERT. NO QMS 02101



CERTIFIED TO ISO 37001:2016  
CERT. NO ABMS 00216

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Jenis Alat Kelengkapan : **FIXED FIRE FIGHTING PUMP SYSTEM**

Model & Spesifikasi : **'LEO' (END SUCTION/VERTICAL IN-LINE SPRINKLER PUMP)**  
**Model spt di lampiran**

Nama & Alamat Pengeluar : **LEO GROUP PUMP (ZHEJIANG) CO.LTD CHINA**

Tahap Rintangan Api : **GRADE 1U**

No. Laporan ujian/Tarikh : **SIRIM 2023MA1046 (22/11/2023), 2023MA1045 (04/10/2023) & 2023MA1045-S1 (22/11/2023)**

Skim Persijilan Barangan/ : **-----**

Had Kegunaan : **SPESIFIKASI PAM & MOTOR DARI JENIS DIUJI SAHAJA! PEMASANGAN 'CONTROLLER/STARTER PANEL' HENDAKLAH DARI JENIS YANG TELAH DIUJI MEMATUHI PIAWAIAN IEC DISYARATKAN OLEH MS 2616.**

**MEMATUHI SPESIFIKASI UJIAN, UBBL 1984 DAN SYARAT-SYARAT SEPERTI DI LAMPIRAN A2, A3 & A4 (MS 2616:2015 PUMPSET).**

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Tempoh sah perakuan: **22/12/2023 hingga 21/12/2025**



No. Fail: JBPM/IP/RNP: 700-7/2/28-66 (2)

No.Siri: 2023/S9/5738/FFP

LAMPIRAN A1

**'LEO' (END SUCTION/VERTICAL IN-LINE SPRINKLER PUMP)**

BIL	PUMP TYPE	PUMP MODEL	DRIVEN POWER	SPEED (RPM)	PUMP CAPACITY
1	End Suction	LEP 65-50-160	11 kW	2940	57.6 m3/hr @39m
2	End Suction	LEP 65-50-200	18.5 kW	2940	57.6 m3/hr @61m
3	End Suction	LEP 65-50-260	30 kW	2960	57.6 m3/hr @86m
4	End Suction	LEP 65-50-320H	75 kW	2975	90 m3/hr @140m
5	End Suction	LEP 80-65-160	15 kW	2940	90 m3/hr @34m
6	End Suction	LEP 80-65-200	30 kW	2960	108 m3/hr @62m
7	End Suction	LEP 80-65-260	55 kW	2970	108 m3/hr @96m
8	End Suction	LEP 80-65-320H	90 kW	2975	108 m3/hr @144.5m
9	End Suction	LEP 100-80-160	22 kW	2950	144 m3/hr @33.5m
10	End Suction	LEP 100-80-200	45 kW	2960	180 m3/hr @52.5m
11	End Suction	LEP 100-80-260	75 kW	2975	180 m3/hr @86m
12	End Suction	LEP 100-80-320H	132 kW	2975	180 m3/hr @140.5m
13	Vertical In-Line	LVR 10-4	1.5 kW	2880	8.17 m3/hr @34m
14	Vertical In-Line	LVR 10-6	2.2 kW	2880	8.17 m3/hr @51m
15	Vertical In-Line	LVR 10-9	3.0 kW	2880	8.17 m3/hr @77m
16	Vertical In-Line	LVR 10-12	4.0 kW	2880	8.17 m3/hr @99m
17	Vertical In-Line	LVR 10-14	5.5 kW	2880	8.17 m3/hr @124m
18	Vertical In-Line	LVR 10-16	5.5 kW	2910	8.17 m3/hr @141m
19	Vertical In-Line	LVR 10-18	7.5 kW	2910	8.17 m3/hr @157m

