EU-TYPE EXAMINATION CERTIFICATE

According to

Directive 2014/68/EU of the European Parliament and of the Council of 15 May 2014 for Pressure Equipment

CERTIFICATE NO.: **16-1009573-101, Rev. 22**

This Certificate consists of four (4) pages

THIS IS TO CERTIFY THAT THE EQUIPMENT

SAFETY AND PRESSURE ACCESSORIES

WITH THE TYPE DESIGNATION/EQUIPMENT DESCRIPTION

"*Check-list prodotti omologati (PED)" – 16-1009573-101* (Rev. 22 – two (2) pages)

MANUFACTURED BY

CAVAGNA GROUP S.p.A.
Via Statale n° 11/13
IT-25011 Ponte San Marco di Calcinato (BS)
Italy

is found to comply with the requirements in Annex I, Essential Safety Requirements and EN ISO 10297, EN 14129 and EN 13175 (for full list refer Technical files)

The equipment has been examined with respect to the procedure of conformity assessment as described for Module B – Production type – Annex 3 point 3.1.

APPLICATIONS

Category:	IV	
Module:	B	
	Room 1.	
Allowable Pressure PS min/max:	0,5	/ See page 2 to 4
Allowable Temperature TS min/max:	See page 3	/ See page 3
Volume/DN:	≤ 2.0	
Fluid group:	1	
Fluid name:	LPG, NH3, Hydrogen and other gases	

Further details of the product and conditions for the certification are given on next page.

This Certificate is valid until: 2027-02-22

MÖLNDAL 2026-07-03
SIGNED FOR AND BEHALF OF
Kiwa Sweden AB
Notified Body No.: 0409

Jacob Persson
Technical Manager

SWEDAC ACKREDITERING
Accred. no. 1181
Product certification
ISO/IEC 17065

Notice: The certificate is subject to terms and conditions, if any, overleaf. Any significant changes in design or construction of the product, the quality system or amendments to the Directive 2014/68/EU or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with the Directive, as amended.

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TYPE APPROVAL VALIDITY

Family Ref No	Valve type	Gas	Applicable Standard	Test pressure [bar]	Validity date
BC-01	BACK CHECK VALVE	LPG Ammonia	EN 13175	30,00	11-09-33
EFV-01	EXCESS FLOW VALVE	LPG Ammonia	EN 13175	30,00	11-09-33
FV-01	FILLER VALVES	LPG	EN 13175	25,00	22-05-30
FV-02	FILLER VALVES	LPG	EN 13175	25,00	22-02-27
FV-03	FILLER VALVES	LPG	EN 13175	25,00	22-02-27
HS4	AUTOMATIC VALVE	Hydrogen	EN ISO 10297:2024	825.0	03-07-36
ID-01	ISOLATING DEVICES	LPG	Raccolta E C.F.B.P. EN 14071	25,00	22-02-27
ID-02	ISOLATING DEVICES	LPG	COP 15/1 EN 14071	25,00	22-02-27
LW-01	LIQUIDWITHDRAWAL VALVES	LPG	EN 13175	25,00	22-02-27
LW-02	LIQUIDWITHDRAWAL VALVES	LPG	EN 13175	25,00	22-02-27
MLW-02	MANUAL LIQUIDWITHDRAWAL VALVES	LPG	EN 13175	30,00	22-02-27
MPV-01	MULTIPURPOSE VALVES	LPG	EN 13175	25,00/30,00	22-02-27
MPV-02	MULTIPURPOSE VALVES	LPG	EN 13175 EN 14129	25,00	22-02-27
PRV-01	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 15,17 to 20,00	22-02-27
PRV-02	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 15,17 to 20,00	22-02-27
PRV-03	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 15,60 to 20,00	22-02-27

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Family Ref No	Valve type	Gas	Applicable Standard	Test pressure [bar]	Validity date
PRV-05	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 14,00 to 18,00	22-02-27
PRV-06	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 16,00 to 17,00	22-02-27
PRV-08	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 17,24 to 25,00	22-02-27
PRV-11	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 14,50 to 17,20	22-02-27
PRV-12	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting 14,5	22-02-27
PRV-13	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 14,50 to 17,20	22-02-27
PRV-14	PRESSURE RELIEF VALVES	LPG	EN 14129	Setting from 14,00 to 17,24	22-02-27
PV-00	PRESSURE RELIEF VALVES - PV	LPG	EN 14129	Setting from 13,80 to 18,00	22-02-27

NOTE:
For Valve types and their codes refer tables in attached Check list of approved valves "*Check-list prodotti omologati (PED)"* – two (2) pages.

Allowable Temperature: From -20°C to +85°C **or** From -40°C to +85°C (see specified drawing)

EXAMINED TECHNICAL DOCUMENTATION

Omeca Division: Via Statale N° 11/13, IT-25011 Ponte S. Marco di Calcinato (Brescia), Italy.

SUPPORTING EVIDENCE

Technical Files for valve types listed in "Check-list prodotti omologati CE (PED)" – 16-1009573-101 (last revision available).

Technical Report No.: 1009573-101 (2024-04) - . Cavagna Group – Division Omeca, PED Recertification audit dated from 15 to 16.04.2024. Certificate 16-1009573-101 (valid until 22-02-2027)

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LIMITATIONS

The Manufacturer is allowed to affix the “CE” mark to the approved pressure equipment in the conditions described in the Pressure Equipment Directive, only if the requirements stated in the Module D are fully complied with.

SCOPE OF EXAMINATION

Technical design data and calculations	Yes ☒		
Materials assessment	Yes ☒		
Manufacturing drawings	Yes ☒		
Welding – specifications WPS (procedures)	Yes ☐	No ☒	
Welding – personnel approval	Yes ☐	No ☒	
NDT – personnel verification	Yes ☐	No ☒	
NDT – scope, methods and procedures	Yes ☐	No ☒	
Operating instructions	Yes ☒	No ☐	
Hazard or risk analysis	Yes ☒	No ☐	
External loads	Yes ☐	No ☒	
Fatigue	Yes ☐	No ☒	- allowed number of full cycles -
Creep design	Yes ☐	No ☒	
Other tests or procedures	Yes ☒	No ☐	Refer to the technical files

TESTS CARRIED OUT

Production Type - Prototype vessel representative of type approval examined [1009573 – yearly audited]

MALMÖ 2026-07-03

Kiwa Sweden AB

DESIGN EXAMINATION CARRIED OUT BY

Thierry Tielemans, Eng

Senior Design Review Engineer