

EU-TYPE EXAMINATION CERTIFICATE – PRODUCTION TYPE

Certificate No.:
6212-2015-CE-HOU-ACCREDIA

Initial date:
26 May, 2015

Valid:
16 October, 2019 – 13 May, 2025

This certificate consists of 4 pages

This is to certify that representative examples of products manufactured by

Flow Management Devices, LLC

5225 S 37th Street Suite 4, Phoenix, AZ 85040-9082

have been assessed with respect to the conformity assessment procedure described in

ANNEX III MODULE B – PRODUCTION TYPE OF DIRECTIVE 2014/68/EU ON PRESSURE EQUIPMENT

and found to comply with the requirements in Annex I – Essential Safety Requirements of the Directive.

The certificate is valid for the following products:

Type of Pressure Equipment	Pressure Accessory
Product Name	Prover Models
Product Version	001, 003, 007, 015, 025, C25, 035, A35, 045, 060, 090, 130, 200, 245

Place and date:
Vimercate 21 October, 2019



SGQ N° 003 A
SGA N° 003 D
SGE N° 007 H
SCR N° 004 F
EMAS N° 009 P
PRD N° 003 B
PRS N° 094 C
SSI N° 002 G
Membro di MLA EA per gli schemi di accreditamento
SGQ, SGA, PRD, PRS, SSP, GNG, LAB e LAT, di MLA DAF
per gli schemi di accreditamento SGQ, SGA, SSI, PSP
e PRD e di MRA ILAC per gli schemi di accreditamento
LAB, MED, LAT e ISP.

For the notified body 0496:
DNV GL Business Assurance Italia
S.r.l.

Nicola Privato
Management Representative

Certificate No.: 6212-2015-CE-HOU-ACCREDIA
 Place and date: Vimercate 21 October, 2019
 Revision No.: 01

Jurisdiction

Application of Directive 2014/68/EU and Decreto Legislativo n. 26 of 15 February 2016

Certificate history

Revision	Description	Issued date
00	Original certificate	26 May 2015
01	Updated prover series with higher pressure: Gen 4 and add Duplex nozzles	21 October, 2019

Products covered by this certificate

Product name	Product description	Product version	Category	Applied product standards
FMD PROVERS	FMD Flow Provers Class 150	FMD-001 thru FMD 007	III	ASME section VIII, Div. 1, 2007 ed.
FMD PROVERS	FMD Flow Provers Class 300	FMD-001	III	ASME section VIII, Div. 1, 2007 ed.
FMD PROVERS	FMD Flow Provers Class 150	FMD-015 thru FMD 245	IV	ASME section VIII, Div. 1, 2007 ed.
FMD PROVERS	FMD Flow Provers Class 300	FMD-003 thru FMD 245	IV	ASME section VIII, Div. 1, 2007 ed.
FMD PROVERS	FMD Flow Provers 600,900, 1500	FMD-001 thru FMD 245	IV	ASME section VIII, Div. 1, 2007 ed.

Pressure class at Max/Min Temperature-Gen 3

Models	Maximum allowable pressure (PS)		Minimum/maximum allowable temperature (TS)	Fluid	Fluid group
	ANSI Class	MAWP			
All	1 (150#)	19.0 barg (275 psig)	-28.9°C / +37.8°C (-20°F / 100°F)	Gas	1
All	2 (300#)	49.6 barg (720 psig)			
All	3 (600#)	99 barg (1440 psig)			
All	4 (900#)	148 barg (2160 psig)			
FMD-003 thru FMD-090	5 (1500#)	248 barg (3600 psig)			

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Pressure class at Max/Min Temperature-Gen 4

Models	Pressure Rating (A-E) (ANSI Class)	Maximum Allowable Pressure (PS)	Maximum/Minimum Allowable Temperature (TS)	Fluid	Fluid Group
ALL	A (150#)	19.6 barg (285 psig)	-28.9°C / 37.8°C (-20°F / 100°F)	Liquefied Gas	1
ALL	B (300#)	51.1 barg (740 psig)			
ALL	C (600#)	102.1 barg (1480 psig)			
ALL	D (900#)	153.2 barg (2220 psig)			
FMD-003 thru FMD-090	E (1500#)	255.3 barg (3705 psig)			

Sites covered by this certificate

Product name	Product description	Site Address	Date	Report ref
Provers	FMD Flow Provers	5225 S 37 Street, Suite 4 Phoenix, AZ 85040	16 April 2019	Audit report P1 April 2019

Applications/limitations

- Allowable Pressures at Elevated Temperatures (Model Series Gen 3)

Temperature (°C)		ANSI Flange Class									
		150#		300#		600#		900#		1500#	
Min	Max	psig	bar	psig	bar	psig	bar	psig	bar	psig	bar
-28.9	37.8	275	19	720	49.8	1440	99.3	2160	148.9	3600	248.2
-28.9	93.3	230	15.9	600	41.4	1200	82.7	1800	24.1	3000	206.8
-28.9	148.9	205	14.1	540	37.2	1080	74.5	1620	111.7	2700	186.2
-28.9	204.4	190	13.1	496	34.1	995	68.6	1490	102.7	2485	171.3

- Allowable Pressures at Elevated Temperatures (Model Series Gen 4)

Temperature (°C)		ANSI Flange Class									
		150#		300#		600#		900#		1500#	
Min.	Max.	psig	barg	psig	barg	psig	barg	psig	barg	psig	barg
-28.9	37.8	285	19.6	740	51.1	1480	102.1	2220	153.2	3705	255.3
-28.9	93.3	260	17.9	680	46.8	1360	93.7	2035	140.3	3395	234.0
-28.9	148.9	230	15.8	655	45.1	1310	90.3	1965	135.4	3270	225.4
-28.9	204.4	200	13.7	635	43.7	1265	87.2	1900	131.0	3170	218.5

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Documents reviewed

Drawing/Document No.	Rev.	Date	Title	Status*
000-109661-DOC	C	10 April 2019	Pressure Equipment Directive Technical File	FI
000-115080-COM	A	09 April 2019	Nameplate Prover ATEX Gen 4 PED	FI
000-110918-TUB	A	06 Jan 2016	Casting	A
000-109714-DOC	D	02 Jan 2018	PED Declaration of Conformity	A

*) A=Approved, FI=For information

Terms and conditions for the certificate

This Certificate does not give the Manufacturer the right to CE mark and put on the market the product(s) listed on this Certificate. Only after the product(s) have been found to comply with the requirements in one of the following Conformity Assessment Modules C2, D, E or F, the Manufacturer may draw up an EC declaration of conformity and legally affix the CE mark followed by the identification number of the Notified Body involved in these modules.

Other valid terms and conditions are found in the DNV GL 's PED Certification Rules.

END OF CERTIFICATE