



**ACS.REGT2
SAFETY ASSESSMENT CRITERIA
INITIAL & RE-ASSESSMENT
EMERGENCY SERVICE PROVIDER AND
GAS METER INSTALLER
TESTING/COMMISSIONING
NON-DOMESTIC
MEDIUM PRESSURE REGULATORS
NATURAL GAS**

REGT2	INITIAL & RE-ASSESSMENT
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Introduction

Tests gas safety competence to install and commission non-domestic MP meter regulators and controls for single stream systems.

Candidates who have successfully completed CMET2 may also install, commission and service MP regulators within the scope of REGT2.

CBs may adopt Competence and Criteria numbering different to that used in this document.

CB documentation may adopt wording for criteria different to that used in this document, provided the meaning is unaffected.

Range

All types of non-domestic MP meter regulators and controls for gas supply for diaphragm, ultrasonic and rotary displacement meter installations.

Pre-requisites

Initial

COCN 1 or CMA 1 or CESP1 +
MET4 or CMET1 +
TPCP1.

OR suitable Alternative

Re-assessment

COCN1 or CMA1 or CESP1 +
MET4 or CMET1 +
TPCP1 +
REGT2.

Exclusions

LP gas meter regulators, domestic MP regulators (see **REGT1**); any regulator where $MOP_u > 2$ bar or any turbine and ultrasonic meter installation (see **CMET2**).

References

- MIs.
- HSL56
- IGE/UP/1.
- IGEM/GM/8 Edition 2 Part 1 -5
- IGEM/GM/7B
- GIUSP.

The References (REF) where indicated are only a guide to where the criteria can be resourced and therefore the REF may not be exhaustive.

ACS.SMB.005.ACDND identifies Normative Documents that should be held by ACs.

Abbreviations

AC. Assessment Centre

CB. Certification Body

I. Initial

LP. Low pressure

MIs. Manufacturer's/manufacturers' instructions

MP. Medium pressure

R. Re-assessment

Ref. Reference

SSV. Slam-shut valve.

PERFORMANCE CRITERIA		REF	I	R
1.	obtain and study details of the installation design (the need for documentation , commissioning reports ,request for information from GT and meter designer)	IGEM/GM/8 Part 3 4.3 & 5.3 IGEM/GM/8 Part 1 4.3.3	√	√
2.	obtain correct information concerning network to which installation is to be connected	IGEM/GM/8 Part 3 5.2	√	√
3.	check details for settings for meter regulators, creep relief and SSVs are available	IGEM/GM/8 Part 1 Section 11	√	√
4.	check selected location is suitable for installation and carry out pre-installation check	5.4 & Section 10	√	√
5.	check control train (regulators, valves, safety devices and the inlet assembly) has been strength tested to the correct minimum pressure of 3 bar	IGEM/GM/8 Part 1 A11.5	√	√
6.	check certificate confirming date and results of strength test	4.2.3	√	√
7.	identify and assemble regulators, valves and safety devices, to MIs, and system design plan	12.4 -12.4.4	√	√
8.	install pipe and equipment supports	12.4.5-12.4.11	√	√
9.	identify extent of hazardous area zoning for relief valve vent stacks and position stacks accordingly	IGEM/GM/8 Part 1 Section 17	√	√
10.	seal screwed pipework and/or flanges using appropriate jointing material	12.6-12.7.6	√	√
11.	check installation is gas tight	Section 14	√	√
12.	carry out pre-commissioning checks	Section 15	√	√
13.	purge installation	Section 16	√	√
14.	carry out functionality tests on train controls, to MIs	Section 17	√	√
15.	Commissioning - General (IGEM/GM/8 Part 3 Section 18)			
(i)	check all components function correctly to MIs	18.1.5	√	√
(ii)	set safety system control pressures and test, prior to regulator	18.1.4-18.2.2	√	√
(iii)	ensure regulator is operating in full control prior to opening outlet valves	18.3	√	√
(iv)	check set points of regulators under flow conditions (simulation can be used)	18.2.4	√	√
15 a	Set points – metering pressure – single stream meter installation –	IGEM/GM/8 Part 3 Table 1 and MI's		
(i)	set active regulator at determined set point	18.2	√	√
(ii)	set SSV above relief valve set pressure (take into account accuracy of class of relief valve and SSV to ensure relief valve is not restricted) (47.5 mbar)	18.2.3	√	√
(iii)	check SSV set point plus accuracy group tolerance (MIP) ≤ STP of downstream system	18.2.3	√	√
(iv)	consider control accuracy at meter when accuracy classes for regulators were selected	18.2.3 Table 1	√	√
16.	display notices and labels	18.7	√	√
17.	seal regulators and safety devices	18.7.5	√	√
18.	complete minimum information manual	Section 19	√	√
KNOWLEDGE AND UNDERSTANDING		REF	I	R
1.	use of temporary filters and strainers for commissioning	IGEM/GM/8 Part 3 12.1.5	√	√
2.	impulse and auxiliary pipework	IGEM/GM/8 Part 1 14.10. - 14.10.3	√	√
3.	specific requirements for MP fed diaphragm meter installations	IGEM/GM/8 Part 1 Appendix 13	√	√

4.	specific requirements for MP fed RD meter installations	IGEM/GM/8 Part 1 Appendix 13	√	√
5.	commissioning instrumentation	IGEM/GM/8 Part 3 18.5	√	√
6.	handover procedure	IGEM/GM/8 Part 3 Section 19	√	√
7.	terms and acronyms used	IGEM/GM/8 Part 1	√	√
8.	GT regulated network standard operating conditions	IGEM/GM/8 Part 1 Appendix 5	√	√
9.	maintenance of filters, regulators and safety controls on meter installations	IGEM/GM/8 Part 4 Section 5.2	√	√
10.	set points and tolerances for twin stream meter installations with 21 mbar metering pressure	IGEM/GM/8 Part 3 Table 1 and MI's	√	√
11.	setting monitor regulators above active regulators	18.2-18.3	√	√
12.	setting relief valves above monitor regulators	18.2-18.3	√	√
13.	understanding zoning distances of hazardous areas surrounding meter installation fittings and components	IGEM/GM/8 Part 3 10.1 & 10.2	√	√
14.	understanding ventilation requirements to meet area/hazardous area classifications	IGEM/GM/8 Part 3 6.4	√	√
15.	Regulators and Safety device protection protocol	IGEM/GM/8 Part 1 7.6 & Fig 2	√	√
16.	The effects of abnormal loads including boosters and other ancillary equipment has on Regulator installations	IGEM/GM/8 Part 1 9.8 & appendix 7	√	√
17.	final Checks	IGEM/GM/8 Part 3 18.8.3	√	√