

# ACS.REGT1 SAFETY ASSESSMENT CRITERIA INITIAL & RE-ASSESSMENT EMERGENCY SERVICE PROVIDER AND GAS METER INSTALLER TESTING/COMMISSIONING DOMESTIC MEDIUM PRESSURE REGULATORS NATURAL GAS

# **REGT1** INITIAL & RE-ASSESSMENT

### Introduction

Tests gas safety competence to install and commission domestic meter regulators.

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

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

### Range

All types of domestic MP meter regulator.

### **Pre-requisites**

### Initial

CCN1 or CMA1 or

CMA2LS + MET1 or MET2 or MET3 LS.

### Re-assessment

REGT1.

### **Exclusions**

Regulators where MOP > 2 bar.

### References

- HSL56
- IGE/UP/1B
- BS 6400-2
- GIUSP.

ACS.SMB.003.ACDND indicates those Normative Documents that should be held by ACs.

### **Abbreviations**

AC. Assessment Centre

ECV. Emergency control valve

I. Initial

LDF. Leak detection fluid

LP. Low pressure

MIEFV. Meter inlet excess flow valve

MIV. Meter inlet valve

MOP. Maximum operating pressure

MP. Medium pressure

R. Re-assessment

Ref. Reference

SSV. Slam-shut valve.

1. check control, safety devices and inlet assembly have been strength tested at 3 bar and incorporated as a factory made assembly to MIV and meter inlet is correct.  2. check certificate confirming date and results of strength test is attached to regulator.  3. check outlet connection from regulator assembly to MIV and meter inlet is correct.  4. v.		ORMANCE CRITERIA	REF	I	R
2. check certificate confirming date and results of strength test is attached to regulator 2. check cuttlet connection from regulator assembly to MIV and meter inlet is correct. Y. V. V. 3. identify type of regulator to be tested i.e. Type A with MIEFV or Type B with SSV V. V. PRS 2P/E Purging and testing (PT) pressure control and safety system utilising:  A. a pressure relief valve and MIEFV  B. PRS 28/E SSV  (i) carry out a let-by test of ECV  (ii) leave MIV in open position and gas meter not connected to meter bar v.	1.	check control, safety devices and inlet assembly have been strength tested at 3 bar		√	√
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(vii) carry out a let-by test on regulator (IGE/UP/1B) (see additional PC 6)       √	(VI)		l	<b>√</b>	√
(wii) a open ECV slowly and verify opening of regulator by observing gauge reading (B PRS28/E) (Viii) purge installation by slowly opening purge valve (ensuring MIEFV is not activated on (A.PRS29/E types)  (x) check regulator outlet pressure. Ensure range of 22 mbar ± 2 mbar during purge	( !!)		<del>                                     </del>	,	<del>Ι</del> ,
(Viii) purge installation by slowly opening purge valve (ensuring MIEFV is not activated on (A.PRS29/E types)  (ix) check regulator outlet pressure. Ensure range of 22 mbar ± 2 mbar during purge  (x) on completion of purge, close purge valve and apply LDF to all joints not included in original service test (including ECV and MIV)  (xi) rectify any leaks and remove remaining LDF from joints  (xii) check lock-up pressure of regulator. Ensure it does not exceed 27-5 mbar  (xiii) close MIV and release pressure from its outlet by opening purge valve until pressure drops to approx. 10 mbar. Close purge valve  (xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (xi) test relief valve with MIV open; regulator in its locked-up position and tip of relief vertice in water, to confirm no gas is passing  (xvi) test pressure of regulator in test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3.5 mbar)  (xviii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure of the seceding 27.5 mbar  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47.5 mbar ± 2.5 mbar  (xxiii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxiii) (B)repressuries installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxii) (B)repressures of TSSV  (xxii) (B)repressures of TSSV  (xxiii) (B)re-set SSV, remove plug from relief vent and re-connect v			<del>                                     </del>		<u> </u>
(viii) Aprelease re-set lever to re-pressurise test apparatus (xii) purge installation by slowly opening purge valve (ensuring MIEFV is not activated on (A.PRS29/E types) (ix) check regulator outlet pressure. Ensure range of 22 mbar ± 2 mbar during purge (x) on completion of purge, close purge valve and apply LDF to all joints not included in original service test (including ECV and MIV) (xii) rectify any leaks and remove remaining LDF from joints (xiii) check lock-up pressure of regulator. Ensure it does not exceed 27-5 mbar (xiii) check lock-up pressure of regulator. Ensure it does not exceed 27-5 mbar (xiii) check lock-up pressure of regulator. Ensure it does not exceed 27-5 mbar (xiii) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly. (xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly. (xiv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vertification of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3-5 mbar) (xiv) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator and re-test installation, if relief valve operates outside of range (xiv) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xiv) (A)release re-set lever to re-pressurise test apparatus  (xiv) (B)re-pressurise installation and re-set SSV. Repeat test in (xiv) in the pump on test apparatus until SSV operates within pressure range 47-5 mbar ± 2-5 mbar  (xiv) (B)replace complete regulator assembly if it operates outside range given (47-5 mbar ± 2-5 mbar) (Ref C.2.1)  (xiv) (B)replace complete	(vii)a			√	√
(A.PRS29/E types)  (x) check regulator outlet pressure. Ensure range of 22 mbar ± 2 mbar during purge  (x) on completion of purge, close purge valve and apply LDF to all joints not included in original service test (including ECV and MIV)  (xi) rectify any leaks and remove remaining LDF from joints  (xii) check lock-up pressure of regulator. Ensure it does not exceed 27.5 mbar  (xiii) close MIV and release pressure from its outlet by opening purge valve until pressure drops to approx. 10 mbar. Close purge valve  (xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (xiv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing  (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3.5 mbar)  (xviii) replace regulator and re-test installation, if relief valve operates outside of range valvii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow valvii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow valvii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow valvii) (A)teck regulator to ensure it has returned to locked-up position with gauge indicating a pressure for 5 seconds.  (xxi) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure of SSV  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47.5 mbar ± 2.5 mbar  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47.5 mbar ± 2.5 mbar  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus on the pressure of SSV  (xxiii) (B)complete regulator assembly if it operates outside ran			<del></del>	,	<b>,</b>
(x) check regulator outlet pressure. Ensure range of 22 mbar ± 2 mbar during purge (x) on completion of purge, close purge valve and apply LDF to all joints not included in original service test (including ECV and MIV)  (xi) rectify any leaks and remove remaining LDF from joints (xii) check lock-up pressure of regulator. Ensure it does not exceed 27.5 mbar (xiii) close MIV and release pressure from its outlet by opening purge valve until pressure drops to approx. 10 mbar. Close purge valve (xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (xv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3.5 mbar) (xviii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow (xviii) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)release re-set lever to re-pressurise test apparatus  (xxi) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure not exceeding 27.5 mbar (xxii) (A)if MIEFV fails to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47.5 mbar ± 2.5 mbar  (xxiv) (B)de-pressurise installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxv) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxv) (B)replace complete regulator assembly if it operates outside range given (47.5 mbar ± 2.5 mbar)  (xxii) (B)reset SSV, sepace test of CE/UP/1B  5. let-by test on ECV:  (i) trun off gas supply at ECV  (ii) connect gauge to suitable point on system from suitable point in ins	(VIII)			<b>√</b>	√
(X) on completion of purge, close purge valve and apply LDF to all joints not included in original service test (including ECV and MIV)  (Xi) rectify any leaks and remove remaining LDF from joints  (Xii) check lock-up pressure of regulator. Ensure it does not exceed 27.5 mbar  (Xiii) close MIV and release pressure from its outlet by opening purge valve until pressure drops to approx. 10 mbar. Close purge valve  (Xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (Xiv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent yent pipe inserted in water, to confirm no gas is passing  (Xiv) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3.5 mbar)  (Xiv) (A) close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (Xiv) (A) close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (Xiv) (A) close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (Xiv) (A) release re-set lever to re-pressurise test apparatus  (Xiv) (A) release re-set lever to re-pressurise test apparatus  (Xiv) (B) release re-set lever to re-pressurise test apparatus  (Xiv) (B) replace complete regulator to ensure it has returned to locked-up position with gauge indicating a pressure on exceeding 27.5 mbar  (Xiv) (B) replace complete apparatus within pressure range 47.5 mbar ± 2.5 mbar  (Xiv) (B) replace complete regulator and re-est first in (Xiviii) twice; recording operating pressure of SSV  (Xiv) (B) replace complete regulator and re-est sylvania pressure and pressure of SSV  (Xiv) (B) replace complete regulator assembly if it operates outside range given (47.5 mbar ± 2.5 mbar) (Ref C.2 1)  (Xiv) (B) replace complete regulator assembly if it operates outside range given (4	(:)		<del></del>	,	٠,
original service test (including ECV and MIV)  (xi) rectify any leaks and remove remaining LDF from joints  (xii) check lock-up pressure of regulator. Ensure it does not exceed 27·5 mbar  (xiii) close MIV and release pressure from its outlet by opening purge valve until pressure drops to approx. 10 mbar. Close purge valve  (xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (xiv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing  (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3·5 mbar)  (xvii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xiii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xxii) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xxi) (A)release re-set lever to re-pressurise test apparatus  (xxi) (A)release re-set lever to re-pressurise test apparatus  (xxii) (A)if MIEFV falls to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47-5 mbar ± 2·5 mbar  (xxiii) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar)  (xxii) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar) (Ref C.2 I)  (xxii) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar) (Ref C.2 I)  (xxiii) (B)reset SSV, remove plug from relief vent and				ν,	\ \ \ /
(xi)       rectify any leaks and remove remaining LDF from joints       V       V         (xii)       check lock-up pressure of regulator. Ensure it does not exceed 27·5 mbar       V       V         (xiii)       close MIV and release pressure from its outlet by opening purge valve until pressure drops to approx. 10 mbar. Close purge valve       V       V         (xiv)       apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.       V       V         (xv)       test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing       V       V         (xvi)       test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3·5 mbar)       V       V         (xvii)       (applace regulator and re-test installation, if relief valve operates outside of range       V       V         (xviii)       (A) close purge valve and re-arms second stage of regulator by moving re-set lever against spring pressure for 5 seconds.       V       V         (xxi)       (A) close purge valve and re-arms second stage of regulator by moving re-set lever against spring pressure for 5 seconds.       V       V         (xxi)       (A) close purge valve and re-arms second stage of regulator by moving re-set lever against spring pressure for 5 seconds.       V       V         (xxi	(x)			<b>√</b>	√
(xii)         check lock-up pressure of regulator. Ensure it does not exceed 27·5 mbar         √				,	٠,
(xiii) close MIV and release pressure from its outlet by opening purge valve until pressure drops to approx. 10 mbar. Close purge valve  (xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (xv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing  (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3·5 mbar)  (xviii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xi) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)release re-set lever to re-pressurise test apparatus  (xxi) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure not exceeding 27·5 mbar  (xxii) (A)if MIEFV fails to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47·5 mbar ± 2·5 mbar  (xxiv) (B)c-pressurise installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxv) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar) (Ref C.2 I)  (xxvii) (B)close MIV, depressurise and remove test apparatus  (xxvii) (B)close MIV, depressurise and remove test apparatus  (xxvii) (Ca) replace and pressure from experiment of meter label and prepare installation to complete installation of gas meter, P/T to IGE/UP/1B  5. let-by test on ECV:  (ii) connect gauge to suitable point on system  (v) observe gauge for 1 minute; no perceptible movement is allowed (more than 0.5 mbar water gauge)  (v) if valve is letting-by, suspend test, make installatio			<del></del>	+	
drops to approx. 10 mbar. Close purge valve  (xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (xv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing  (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3·5 mbar)  (xviii) replace regulator and re-test installation, if relief valve operates outside of range  (xviiii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xix) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)release re-set lever to re-pressurise test apparatus  (xxi) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure not exceeding 27·5 mbar  (xxii) (A)if MIEFV fails to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47·5 mbar ± 2·5 mbar  (xivi) (B)de-pressurise installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxv) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar) (Ref C.2 I)  (xxvi) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)close MIV, depressurise and remove test apparatus  (xviii) (B)close MIV, depressurise and remove test apparatus  (xviii) (Connect gauge to suitable point on system  (xviii) (Connect gauge to suitable point on regulator, to balance pressure  (xviii) (Connect gauge to suitable point on system  (x			<del></del>		_
(xiv) apply 1 minute let-by test to MIV. If passing gas, depressurise system and replace and re-test complete regulator assembly.  (xv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing  (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3-5 mbar)  (xviii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xi) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)cleease re-set lever to re-pressurise test apparatus  (xxi) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure not exceeding 27·5 mbar  (xxiii) (A)if MIEFV fails to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47·5 mbar ± 2·5 mbar  (xxiv) (B)de-pressurise installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxvi) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar) (Ref C.2 I)  (xxvi) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)close MIV, depressurise and remove test apparatus  (	(XIII)			7	7
and re-test complete regulator assembly.  (xv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing  (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3·5 mbar)  (xvii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xiii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xiii) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xxi) (A)release re-set lever to re-pressurise test apparatus  (xxi) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure not exceeding 27·5 mbar  (xxiii) (A)if MIEFV fails to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47·5 mbar ± 2·5 mbar  (xxiv) (B)de-pressurise installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxv) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar) (Ref C.2 I)  (xxvi) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)cose MIV, depressurise and remove test apparatus  (xxviii) (B)close MIV, depressurise and remove test apparatus  (xxviii) (B)close MIV, depressurise and remove test apparatus  (xxviii) (B)close MIV, depressurise more relief vent and re-connect vent pipe  (xxviii) (B)close MIV, depressurise from system from suitable point in installation, and re-seal  (xxviii) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	/:\			,	,
(xv) test relief valve with MIV open; regulator in its locked-up position and tip of relief vent pipe inserted in water, to confirm no gas is passing  (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3·5 mbar)  (xvii) replace regulator and re-test installation, if relief valve operates outside of range  (xvii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xii) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure not exceeding 27·5 mbar  (xxii) (A)if MIEFV fails to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47·5 mbar ± 2·5 mbar  (xxiv) (B)ce-pressurise installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxv) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar) (Ref C.2 I)  (xxvi) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvi) (xvi) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvi) (xvi) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  5. let-by test on ECV:  (ii) turn off gas supply at ECV  (iii) turn off gas supply at ECV  (iv) hold open any release mechanism on regulator, to balance pressure  (v) vobserve gauge for 1 minute; no perceptible movement is allowed (more than 0.5 who was a parawater gauge)  (vi) if valve is letting-by, suspend test, make installation safe and notify National Gas Emergency Service Call Centre  (ii) return release mechanism on regulator to its off position	(XIV)			<b>V</b>	<b>V</b>
vent pipe inserted in water, to confirm no gas is passing  (xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3·5 mbar)  (xvii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xix) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)release re-set lever to re-pressurise test apparatus  (xxi) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure not exceeding 27·5 mbar  (xxii) (A)if MIEFV fails to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47·5 mbar ± 2·5 mbar  (xxiv) (B)de-pressurise installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxv) (B)replace complete regulator assembly if it operates outside range given (47·5 mbar ± 2·5 mbar) (Ref C.2 I)  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxviii) (B)re-set set on ECV:  (i) turn off gas supply at ECV  (ii) turn off gas supply at ECV  (iii) connect gauge to suitable point on system  (v) observe gauge for 1 minute; no perceptible movement is allowed (more than 0.5 where water gauge)  (vi) if valve is letting-by, suspend test, make installation safe and notify National Gas Emergency Service Call Centre  6. let-by test on gas regulator:  (i) return release mechanism on regulator to its off position	()		<del></del>	,	,
(xvi) test operation of relief valve using pump on test apparatus to increase outlet pressure of regulator until it operates (35 mbar ± 3-5 mbar)  (xvii) replace regulator and re-test installation, if relief valve operates outside of range  (xviii) (A)test operation of MIEFV by fully opening purge valve until gas ceases to flow  (xiii) (A)close purge valve and re-arm second stage of regulator by moving re-set lever against spring pressure for 5 seconds.  (xx) (A)release re-set lever to re-pressurise test apparatus  (xxi) (A)check regulator to ensure it has returned to locked-up position with gauge indicating a pressure not exceeding 27-5 mbar  (xxiii) (A)if MIEFV fails to operate, replace regulator and re-test installation  (xxiii) (B)plug off vent outlet and slowly increase pressure using hand pump on test apparatus until SSV operates within pressure range 47-5 mbar ± 2-5 mbar  (xxiv) (B)de-pressurise installation and re-set SSV. Repeat test in (xxiii) twice; recording operating pressure of SSV  (xxv) (B)replace complete regulator assembly if it operates outside range given (47-5 mbar ± 2-5 mbar) (Ref C.2 I)  (xxvi) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-connect vent pipe  (xxvii) (B)re-set SSV, remove plug from relief vent and re-co	(xv)			V	\ \mathred{\pi}
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<ul> <li>(iii) release any pressure from system from suitable point in installation, and re-seal</li> <li>√ √</li> <li>(iv) hold open any release mechanism on regulator, to balance pressure</li> <li>√ √</li> <li>(v) observe gauge for 1 minute; no perceptible movement is allowed (more than 0.5 mbar water gauge)</li> <li>(vi) if valve is letting-by, suspend test, make installation safe and notify National Gas Emergency Service Call Centre</li> <li>6. let-by test on gas regulator:</li> <li>(i) return release mechanism on regulator to its off position</li> </ul>					
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(i) return release mechanism on regulator to its off position $\sqrt{}$	6				
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## ACS.SMB.004.AC.TABLE 2.REGT1.INITIAL & RE-ASSESSMENT

observe gauge for 1 minute; no perceptible movement is allowed (> 0.5 mbar water gauge)		√	√
if regulator is letting-by, suspend test, make installation safe and notify National Gas Emergency Service Call Centre		√	√
after successful completion of let-by tests, turn off gas supply and release pressure from system		√	✓
WLEDGE AND UNDERSTANDING	REF	Ι	R
additional types of MP regulators used on MP installations, where tests are required		√	$\checkmark$
regulator lock up pressure on MP regulator where an additional LP regulator is installed (37 mbar)		<b>√</b>	√
pressure at which relief valve will operate on MP regulator when an additional LP regulator is installed (45 mbar $\pm$ 3.5 mbar)		√	√
pressure at which SSV will operate when an additional LP regulator is installed (70 mbar $\pm$ 5 mbar)		<b>√</b>	√
types of meter housing suitable for MP meter installations		$\checkmark$	$\checkmark$
minimum distance of relief valve vent tip from openings into property			$\sqrt{}$
sealing MP and LP meter regulators			
terms and acronyms			
	if regulator is letting-by, suspend test, make installation safe and notify National Gas Emergency Service Call Centre after successful completion of let-by tests, turn off gas supply and release pressure from system  WLEDGE AND UNDERSTANDING additional types of MP regulators used on MP installations, where tests are required regulator lock up pressure on MP regulator where an additional LP regulator is installed (37 mbar) pressure at which relief valve will operate on MP regulator when an additional LP regulator is installed (45 mbar ± 3.5 mbar) pressure at which SSV will operate when an additional LP regulator is installed (70 mbar ± 5 mbar) types of meter housing suitable for MP meter installations minimum distance of relief valve vent tip from openings into property sealing MP and LP meter regulators	if regulator is letting-by, suspend test, make installation safe and notify National Gas Emergency Service Call Centre  after successful completion of let-by tests, turn off gas supply and release pressure from system  WLEDGE AND UNDERSTANDING  additional types of MP regulators used on MP installations, where tests are required regulator lock up pressure on MP regulator where an additional LP regulator is installed (37 mbar)  pressure at which relief valve will operate on MP regulator when an additional LP regulator is installed (45 mbar ± 3.5 mbar)  pressure at which SSV will operate when an additional LP regulator is installed (70 mbar ± 5 mbar)  types of meter housing suitable for MP meter installations minimum distance of relief valve vent tip from openings into property sealing MP and LP meter regulators	gauge)  if regulator is letting-by, suspend test, make installation safe and notify National Gas  Emergency Service Call Centre  after successful completion of let-by tests, turn off gas supply and release pressure from system  WLEDGE AND UNDERSTANDING  additional types of MP regulators used on MP installations, where tests are required regulator lock up pressure on MP regulator where an additional LP regulator is installed (37 mbar)  pressure at which relief valve will operate on MP regulator when an additional LP regulator is installed (45 mbar ± 3.5 mbar)  pressure at which SSV will operate when an additional LP regulator is installed (70 mbar ± 5 mbar)  types of meter housing suitable for MP meter installations  minimum distance of relief valve vent tip from openings into property  sealing MP and LP meter regulators  ✓