AUTOMATIC GAS SHUTOFF DEVICES

CITY OF ALAMEDA - PERMIT CENTER
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The Alameda Municipal Code Section 13-5.2 (c.a.) states an automatic gas shutoff permit must be obtained ***on all projects in which a permit is issued for gas piping.***

The Alameda Municipal Code Section 13-5.2 (c.b.) states in part that if a property is sold, or there is any transfer of title, an automatic gas shutoff permit must be obtained ***prior to entering into an agreement for sale, or prior to close of escrow when an escrow agreement has been executed in connection with the sale.***

The City of Alameda will allow the transfer of title prior to the final certification of the automatic gas shutoff permit **provided** an estimate of cost to install an automatic gas shutoff valve is prepared by a licensed plumbing contractor, or a City permit is obtained for the necessary installation, and sufficient funds are held in an escrow account to cover the cost of the instillation. The City requires that all necessary work must be completed within a maximum period of three (3) months after close of escrow.

The following is a description of the necessary information the City requires before issuing a permit to install an automatic gas shutoff device:

Excess flow gas shutoff valve:

1. The Manufacturer's Name
2. The Model number
3. The Valve size
4. The House load BTU's
5. The Valve load BTU's

Note: The property owner is required to upgrade the gas system lines should the house load exceed the gas system load capacity.

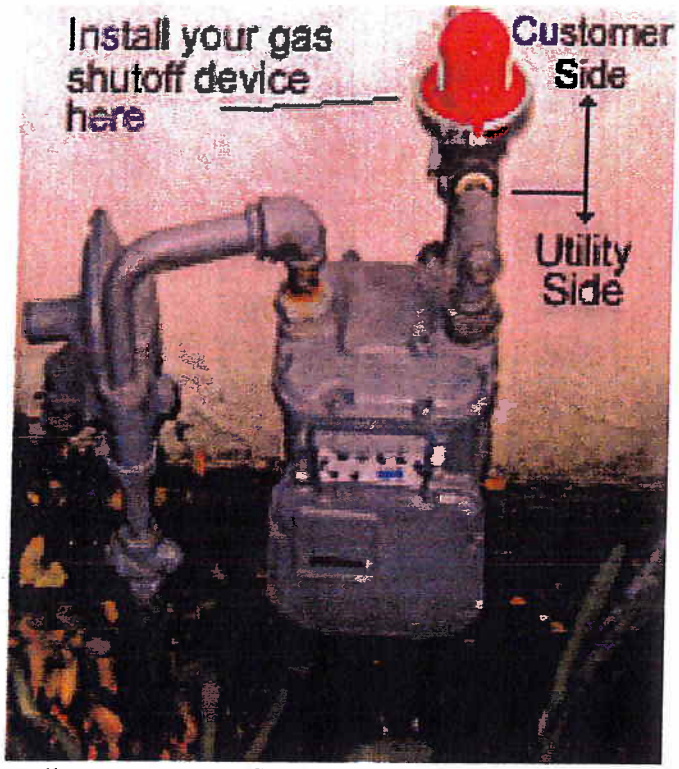
Earthquake-actuated gas shutoff valve:

1. The Manufacturer's Name
2. The Model number
3. The Valve size

Note: Properties that include multiple dwelling units per structure with separate gas meters require one permit for automatic gas shutoff device to each gas meter. Properties that have multiple dwelling units shall be required to apply for one permit per unit where separate individuals own the units, as in the case of town homes.

The State of California is required to approve all excess flow gas shutoff valves and earthquake actuated gas shutoff valves used in the State of California. A list of approved valves is available, on the web from the division of the state architect. Items 3 & 4 http://www.dsa.dgs.ca.gov/OtherProg/gas_shutoff.htm

Automatic Gas Shutoff Devices



If a customer installs an excess flow gas shutoff valve or earthquake actuated gas shutoff valve, it should be one that is certified by the State of California and it should be installed by a licensed plumbing contractor in accordance to the manufacturers instructions. PG&E does not install or service seismic actuated or excess flow gas shutoff valves, or recommend specific contractors for customer applications.

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Excess flow gas shutoff valves and earthquake actuated gas shutoff valves must be installed on the buildings gas houseline piping (the gas pipe connecting your appliances to the gas meter) downstream of the utility point of delivery; i.e. after the PG&E gas shutoff valve, pressure regulator (if installed), meter(s), and the service tee. No attachments or connections of any kind are allowed on utility facilities prior to the point where the service tee connects to the gas houseline piping. Once installed, the valve must not obstruct the operation or serviceability of PG&Es piping, gas service shutoff valve, gas meter or gas pressure-regulating equipment.
In the event that a gas service shutoff valve or an automatic gas shutoff device is closed, there may be a considerable delay before PG&E can turn your service on, but don't turn it on yourself. PG&E or another qualified professional should perform a safety check, restore gas service, and relight any appliance pilots, even if an earthquake did not cause the closure.

Gas Shutoff Devices

There are three types of gas shutoff devices. These are manual shutoff valves, earthquake sensitive automatic shutoff valves, and excess flow automatic gas shutoff valves. The DSA certification program deals with the latter two types of gas shutoff devices.

Types	Manual Shutoff Valve by Utilities	Earthquake Sensitive Automatic Shutoff Valves	Excess Flow Automatic gas shutoff Valves (see Note 1 below)
Installed by	Utility Companies	Owners (See Important Limitations)2	Owners (See Important Limitations)2
Basis of Operation	Owners with proper wrenches can shut off gas in emergencies	Senses shaking in a residential building that is above a design level of shaking and automatically shuts off gas.	Senses gas flows that are above a design trigger flow rate and automatically restricts gas flow downstream to a substantially low level as required by the state adopted standard.
Benefits	All gas services already have valves installed by utility companies. Operation guidance is provided in many public information documents such as the phone book	Activated only in cases when residential building shaking may be sufficient to cause damage to the gas system. Someone does not need to be present to ensure shutoff.	Activated only in cases when excess gas flows downstream of the device, as in gas leaks. Someone does not need to be present to ensure shutoff. Can reset automatically once the downstream leakage is eliminated.
Drawbacks	Only effective if someone is present, knows the valve location, has access to the valve, and has a wrench suitable to close the valve.	Can actuate even if damage and hazards do not exist. Requires manual reset. Aftershocks can cause the device to activate after service has been restored. May activate from shaking not related to earthquakes.	Will not shutoff gas if leakage is below the design triggering flow rate, even if a slow leak exists. May not completely shutoff gas flow. A small residual flow is required for the excessive flow automatic shutoff valve to reset itself automatically. May not activate if occupant changes gas systems downstream without modifying the device.

NOTES:

1. Excess Flow Type: A device actuated by a predetermined gas flow rate to shut off or limit the flow of gas to the downstream system (see Definitions, CSA U. S. Requirements for Excess Flow Valves No. 3-92, Revised 1-6-2000)
2. **Important Limitations** of DSA Gas Valve Certification:
   - DSA certification is for the valve only and does not include the installation and inspection after installation.
   - DSA certification does not replace any requirements adopted by local building departments. The installation of gas valves is under the jurisdiction of the local building departments. Building permits may be required by local building departments. Please contact your local building department if you have any questions about installation.
   - DSA certification does not address other plumbing/piping, mechanical, or building code requirements and issues. The installation and the piping systems containing the gas valves must meet the requirements specified by the local building departments and the manufacturers.

EARTHQUAKE SENSITIVE AUTOMATIC GAS SHUT-OFF VALVE CERTIFICATIONS
S.B. 12-16-1 California Standard for Earthquake Actuated Automatic Gas Shutoff Systems (ASCE/ANSI 25-97)
(Revised June 21, 2007)

Manufacturer	Date of Certification	Application Number	Item Number	Valve Size	Pressure (PSI)	Model Number
Pacific Seismic Products, Inc. 233 East Avenue H-8 Lancaster, CA 93535-1621 Contact: Sharon Harper Phone: (661) 942-4499 WWW.PSP4GASOFF.COM	June 28, 2001	04R	30R	¾"	0.5	300
			31R	1"	0.5	301
			32R	1¼"	0.5	302
			33R	1½"	0.5	303
	June 28, 2001	05R	10R	¾"	20	310
			11R	1"	20	311
			12R	1¼"	20	312
			13R	1½"	20	313
			14R	2"	20	314
			15R	3"	20	315
			16R	4"	20	316
	June 28, 2001	45R	113R	2"	60	314-F
				3"	60	315-F
				4"	60	316-F
				6"	60	317-F
	Dec. 5, 2002	60	01	¾"	0.5	VB-300
				1"	0.5	VB-301
				1¼"	7	VB-302
				1½"	7	VB-303
				¾"	60	VB-310
				1"	60	VB-311
		60	02	1¼"	60	VB-312
				1½"	60	VB-313
				2"	60	VB-314
				2"	60	VB-314F
				3"	60	VB-315
				3"	60	VB-315F
		60	03	¾"	0.5	VT-300
				1"	0.5	VT-301
				1¼"	7	VT-302
				1½"	7	VT-303
				¾"	60	VT-310
				1"	60	VT-311
	Dec. 5, 2002	60	04	1¼"	60	VT-312
				1½"	60	VT-313
				2"	60	VT-314, VT-314F
				3"	60	VT-315, VT-315F
		60	05	4"	60	VT-316, VT-316F
				6"	60	VT-317F
				4"	60	VB-316, VB-316F
				6"	60	VB-317F
	Dec. 13, 2004	62	02	8"	60	319F, VT-319F, VB-319F
	Dec. 16, 2004	62	01	2½"	60	318, VT-318, VB-318, 318F, VT-318F, VB318F

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Manufacturer	Date of Certification	Application Number	Item Number	Valve Size	Pressure (PSI)	Model Number
Seismic Safety Products 300 Cottage Avenue Cashmere, WA 98815 Contact: Ed Fields Phones: (800) 948-3782 or (509) 670-7776 www.seismic-safety.com	July 10, 2001	31R	95R	¾" 1"		M75 M100
Earthquake Safety Systems Inc. 41710 Enterprise Circle South, Unit F Temecula, CA 92590 Contact: Rod Merrill Phone: (951) 543-2121 www.eqsafetysys.com	June 26, 2002	07R	02			MSC Control Panels with Maxon Series 808 ¾", 1", 1½", 2", 2⅛", 3" and 6" valves. Note: MSC only, valves are certified by others.
Little Firefighter Corporation 204 S. Center Street Santa Ana, CA 92703 Contact : Ezra Kent Phone: (714) 834-0410 www.littlefirefighter.com	July 10, 2001	33R	97R	¾"	5	AGV-75-5.0
		43R	111R	1"	5	AGV-100-5.0
		35R	**99R** 99HPR	1¼"	5 60	**AGV-125-5.0 (Superceded)** AGV-125HP-60
		49R	117R 117HPR	1½"	5 60	AGV-150-5.0 AGV-150HP-60
		38R	106R 117HPR	2"	5 60	AGV-200-5.0 AGV-200-60
	Oct. 10, 2001	49R	117R	¾' 1" 1¼"		VAGV –75 VAGV-100 VAGV-125
	Nov. 30, 2001	50R	118R 119R 120R 124R 125R	1½ 2" 1¼" 1½" 2"	60 60 5 2 2	VAGV-150HP VAGV-200HP AGV-125 New Model VAGV-150 VAGV-200
	Feb. 20, 2003	61	01	1¼"	2	VAGV-125HF
Qtronics 2421 Canoe Avenue Coquitlam, B.C. Canada, V3K6A9 Contact: Raymond Wood Phone: (888) 397-4427 www.qtronics.com Distributor: SmartGuard Technologies, LLC 1083 Vine St. #113 Healdsburg, CA 95448 Phone: (707) 431-8692 www.smartguardtech.net	Oct. 10, 2001	48R	116R	1"&2"		GG1201(Actuator)

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Manufacturer	Date of Certification	Application Number	Item Number	Valve Size	Pressure (PSI)	Model Number
Quake Defense 2443 Chardonnay Way Livermore, CA 94550 Contact: Martin Asbra Phone: (800) 969-1906 www.quakedefense.com	June 24, 2002	25R 22R 34R	02 02 02	2" to 72" 2" to 54" ¾" to 6"		EFS-PNB ** EFS-P ** EFS-EM ** ** EFS System only, valves are certified by others
Affordable Safety Solutions, Inc 3017 Lincoln Blvd. Santa Monica, CA 90405 Contact: Fabian Padilla Phones: (877) 277-4872 or (310) 674-7335 www.assiusa.com	May 25, 2006	70 70 70 70 70	01 01 01 01 01	3/4" 1" 1 1/4" 1 1/2" 2"	20 20 20 20 20	GSTV T075 GSTV T100 GSTV T125 GSTV T150 GSTV T200
Security Environments, Inc. 10573 W. Pico Blvd., #347 Los Angeles, CA 90064 Contact: Tom Cole Phone: (310) 287-2189 E-Mail: Tomcole942@aol.com	Jan 7, 2002	51R	121R 122R 123R	3/4" 1" 1 1/4"		SE-34 SE-1 SE-114

EXCESS FLOW AUTOMATIC GAS SHUT-OFF VALVE CERTIFICATIONS

California Standard for Excess Flow Automatic Gas Shutoff Systems (CSA 3-92)

(Revised January 2, 2007)

Manufacturer/Firm	Certification Date	Application Number	Item Number	Valve Size	Model Number
UMAC, Inc.	May 29, 2002	03	01	3/4 "	GB-090-075
120 South Ship Road	"	"	"	3/4"	GB-150-075
Exton, PA 95762	"	"	"	3/4"	GB-300-075
Contact:	"	"	"	1"	GB-300-100
Seth Mackay-Smith	"	"	"	1"	GB-350-100
Phone: (800) 524-0566	"	"	"	1"	GB-400-100
www.umac.com	May 24, 2004	03	01	1"	GB-600-100
Brass Craft Manufacturing	June 24, 2002	02	01	3/8" - 15/16"	Magne Flo Safety +Plus Series 1001
39600 Orchard Hill Place	May 29, 2002	"	"	3/4"	EP12-A
Novi, MI 48374-5331	"	"	"	1"	EP16-A
Contact: Jeri Sunisloe or	"	"	"	1"	EP16-B
Bob Learmont	Feb 20, 2003	02	02	3/8" – 1/2"	BrassCraft Safety+Plus Series 1540
Phone: (248) 305-6000	"	02	02	1/2" – 15/16	BrassCraft Safety+Plus Series 1560
www.brasscraft.com	May 24, 2004	03	01	1"	EP16-D
OmegaFlex	Aug 8, 2006	70	02	1/4"	FGP-AFD-80
451 Creamery Way	"	"	"	3/8"	FGP-AFD-100A
Exton, PA 19431-2509	"	"	"	3/8"	FGP-AFD-100B
Contact: Joe McGinnis	"	"	"	1/2"	FGP-AFD-130A
TEL: 610-524-7272	"	"	"	1/2"	FGP-AFD-130B
www.omegaflex.com	Dec 18, 2006	70	03	3/4"	FGP-LFD-70
	"	"	"	3/4"	FGP-LFD-125
	"	"	"	3/4"	FGP-LFD-275A
	"	"	"	1"	FGP-LFD-275B
	"	"	"	1"	FGP-LFD-375
	"	"	"	1 1/4"	FGP-LFD-500