

The following briefly describes the changes incorporated in the associated update. Each subsequent update contains all of the changes incorporated in the previous revisions.

Revision	Dated	Description
070	06/28/2019	Resolved issue with dual stage regulator/relief valve calculation using table based regulator equation.
	04/23/2018	Miscellaneous program maintenance.
	02/05/2018	Revised temperature and “real” gas handling for GPA 2172 heating value method.
063	08/16/2017	Miscellaneous program maintenance.
055	01/23/2017	Revised Grove 900TE regulator handling to match updated manufacturer’s literature.
053	11/08/2016	Resolved issue plotting vent results.
045	03/01/2016	Miscellaneous program maintenance.
043	01/06/2016	Miscellaneous program maintenance.
		Added velocity limited maximum monitor station calculation.
041	11/20/2015	Enhanced Ultrasonic meter sizing calculation.
		Corrected issue with pipe volume calculation when using super compressibility.
		Added support for several new regulator and meter models.
		Added Itron regulator equation and revised Itron regulator handling in regulator property table.
		Miscellaneous program maintenance.

Revision	Dated	Description
037	07/01/2015	<p>Added Ultrasonic meter sizing calculation.</p> <p>Resolved error calculating compressibility when used with Velocity Calculation screen.</p> <p>Resolved issue with importing early GASCalc 4.0 pipe calculation files.</p> <p>Corrected issue when calculating an elevation value from and atmospheric pressure value using the NOAA and ASHRAE methods.</p> <p>Miscellaneous program maintenance.</p>
036	04/09/2015	<p>Added additional reducers to fitting property tables.</p> <p>Miscellaneous program maintenance.</p>
035	03/05/2015	<p>Revised table based regulator handling so that the assigned equation and coefficients will be used for conditions outside the table range.</p> <p>Updated the regulator property tables - added new models - revised tables to accommodate new table calculation handling.</p> <p>Miscellaneous program maintenance.</p>
034	02/25/2015	Miscellaneous program maintenance.
032	12/11/2014	Corrected service line pipe tap calculation error.
029	09/10/2014	<p>Corrected printing error when using comma as the decimal separator.</p> <p>Miscellaneous program maintenance.</p>
024	04/10/2014	<p>Added Meter MatchMaker. Added Joule-Thomson coefficient to thermodynamic properties calculation.</p> <p>Miscellaneous program maintenance.</p>
022	02/24/2014	Corrected issue with purge calc when using small stack compared to pipe size.



Revision	Dated	Description
	02/04/2014	Revised regulator and relief valve station calculation to more accurately reflect conditions when regulator capacity exceeds relief valve capacity. Corrected issue with expansion factor (Y) calculation for wafer style cone meters.
021	01/20/2014	Added droop handling to Regulator Value calculations. Added differential pressure location option to Monitor Regulator calculations. Added other miscellaneous enhancements and calculation options. Miscellaneous program maintenance.
012	07/12/2013	Added Thermodynamic Properties calculations. Improved choked flow handling in relief valve vent calculations. Miscellaneous program maintenance.
011	04/02/2013	Corrected issue with the calculation of PF regulator values. Corrected issue with the calculation of Grove regulator values. Miscellaneous program maintenance.
009	02/21/2013	Miscellaneous program maintenance.
008	01/31/2013	Resolved issue with saving failed velocity value. Added Regulator and Relief Valve type stations to the Station MatchMaker routine. Miscellaneous program maintenance.
	01/14/2013	Resolved issue with using the Select/Apply button to select a device from the matching device list of the Regulator, Relief Valve, and Valve calculation routines. Miscellaneous program maintenance.

Revision	Dated	Description
007	12/22/2012	Added Station and Device MatchMaker routines. Added additional regulator devices and specifications. Enhanced Regulator and Monitor Calculation to include “design” values. Miscellaneous program maintenance.
006	11/09/2012	Resolved issue printing Turbine Meter calculation. Miscellaneous program maintenance.
005	10/03/2012	Miscellaneous program maintenance.
004	09/04/2012	Resolved issue with restarting GASCalc after shutting down machine with GASCalc minimized.
003	08/27/2012	Enhanced EFV reset handling. Added Mueller fittings and valves to Fittings property table. Miscellaneous program maintenance.
	08/06/2012	Enhanced base conditions handling. Allows common conditions to be used by all calculations or individually. Miscellaneous program maintenance.
002	07/17/2012	Resolved issue with opening GASCalc 4.0 pipe flow calculation files with attached fittings. Miscellaneous program maintenance.
001	06/27/2012	Resolved issue with service line calculation when no EFV assigned. Miscellaneous program maintenance.