

# **Certificate of Compliance**

Certificate:	1154280	Master Contract:	158158 (112491_0_000)
Project:	70178927	Date Issued:	2018-06-15
Issued to:	Honeywell International Inc., ACS, 1 1985 Douglas Dr N Golden Valley, Minnesota 55422 USA Attention: Divya Venkat	Environmental & Co	ombustion Controls

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: Danny Glenboski Danny Glenboski

#### **PRODUCTS**

CLASS - C337103 - VALVES (GAS)-Automatic - For Gas Appliances CLASS - C337183 - VALVES (GAS)-Automatic-For Gas Appliances-Certified to U.S. Standards

Model Number	Size	Capacity
•For Use With Natural, Manufacture	ed, Mixed, Propane, Liquefied Pet	roleum or LP Gas-Air Mixtures
Automatic Valves, 2 psi		
Trade Name: Honeywell		
V4295A1007, V8295A1008	3/8 x 3/8	550,000
V4295A1015, V8295A1016	1/2 x 1/2	600,000
V4295A1023, V8295A1024	3/4 x 3/4	1,530,000
V4295A1031, V8295A1032	1 x 1	1,865,000
V4295A1049, V8295A1040	1-1/4 x 1-1/4	3,439,000
V8295A2033	1-1/4 x 1-1/4	3,439,000
V4295A1056, V8295A1057	1-1/2 x 1-1/2	5,176,755



<b>Certificate:</b> 1154280		Master Contract: 158158
<b>Project:</b> 70178927		<b>Date Issued:</b> 2018-06-15
V4295A1189	1-1/2 x 1-1/2	5,176,755
V4295A1064, V8295A1065	2 x 2	8,200,000
V4295A1197	2 x 2	8,200,000
V4295A1072, V4295A1205	2-1/2 x 2-1/2	12,000,000
V4295A1080, V4295A1213	3 x 3	14,422,825
V4295S1005, V8295S1006	3/4 x 3/4	850,000
V4295S1013, V8295S1014	1 x 1	1,010,000
V4295S1021, V8295S1022	1-1/4 x 1-1/4	2,703,000
$T_{1} = 2/0$ is $t = 1$ is since in the $V(4, 0)$	$205 \Lambda = 1 V 4007 \Lambda G = 1 = (2 = 1)$	·)

The 3/8 in. to 1 in. sizes in the V(4,8)295A and V4297A Series (2 psi) may be utilized as safety shutoff valves for commercial/industrial (C/I) applications.

rationatio varios, 5 psi
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V4295A1098	3/8 x 3/8	800,000	
V4295A1106	1/2 x 1/2	1,100,000	
V4295A1114	3/4 x 3/4	2,300,000	
V4295A1122	1 x 1	3,100,000	
V4295A1130	1-1/4 x 1-1/4	7,300,000	
V4295A2045	1-1/4 x 1-1/4	7,300,000	
V4295A1148	1-1/2 x 1-1/2	8,500,000	
V4295A1155	2 x 2	14,000,000	
V4297A1005	1 Adapter x 1 Adapter	2,300,000	
V4297A1013	1-1/2 Adapter x 1-1/2 Adapter	8,500,000	
V4297S1003	1 Adapter x 1 Adapter	800,000	
V4297S1011	1-1/4 Adapter x 1-1/4 Adapter	7,300,000	
		1	

The 3/8 in to 1 in. sizes in the V(4,8)295A and V4297A Series (2 psi) and the 1 in. to 2 in. sizes in the V4295A and V4297A Series (5 psi) may be utilized as safety shutoff valves for commercial/industrial (C/I) applications.

CLASS 3371 04 - VALVES (GAS) - Automatic Safety Shutoff Valves for Gas Appliances

For use with Natural	and Propane	Gases
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Automatic Valves, 2 psi		
V4295A1007, V8295A1008	3/8 x 3/8	550,000
V4295A1015, V8295A1016	1/2 x 1/2	600,000
V4295A1023, V8295A1024	3/4 x 3/4	1,530,000
V4295A1031, V8295A1032	1 x 1	1,865,000
Automatic Valves, 5 psi		
V4295A1122	1 x 1	3,100,000
V4295A1130	1-1/4 x 1-1/4	7,300,000
V4295A2045	1-1/4 x 1-1/4	7,300,000
V4295A1148	1-1/2 x 1-1/2	8,500,000
V4295A1155	2 x 2	14,000,000
V4297A1005	1 Adapter x 1 Adapter	2,300,000



Certificate:	1154280	Master Contra	act:	158158
Project:	70178927	Date Issued:	2018	8-06-15

V4297A1013	1 Adapter x 1 Adapter	8,500,000	
V4297S1003	1 Adapter x 1 Adapter	800,000	
V4297S1011	1 Adapter x 1 Adapter	7,300,000	
The above models are certified as Commerci	al/Industrial Safety Shutoff	Valves when marked with "C/	I" on the

APPLICABLE REQUIREMENTS

valve

ANSI Z21.21-2015 • CSA 6.5-2015

Automatic Valves for Gas Appliances



# Supplement to Certificate of Compliance

**Certificate:** 1154280

Master Contract: 158158 (112491\_0\_000)

The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Project	Date	Description
70178927	2018-06-15	FIR Follow-up 246489171213 where report 1154280 needs to be updated to address new Drawings and Inspectors Findings
70144384	2017-07-21	FIR dated "mrt. 21, 2017"; for model V4297A1013 change CSA drawing 045 from SS020001 to SS020004. Added models V4295A1189, V4295A1197, V4295A1205, V4295A1213.
2745788	2014-07-22	Added models V4295A2045 and V8295A2033 and update to ANSI Z21.21-2012.
2552861	2012-09-11	Alternate construction of CPI switch. Update to ANSI Z21.21b-2011.
1519888	2004-02-02	Transfer Production of V4297, V4295 and V8295 to Nagyhanizsa Hungary

### **Product Certification History**



# Descriptive Report and Test Results

#### MASTER CONTRACT: 158158 REPORT: 1154280 PROJECT: 70178927

Edition 1:	1999/06/16; Report 112491-23 - Cleveland, Issued by James J. Horvath, Reviewed by Trevor Perera
Edition 2:	2000/12/05; Report 1154280 - Cleveland, Issued by James J. Horvath, Reviewed by Trevor Perera
Edition 3:	2001/02/07; Project 1174437 - Cleveland, Issued by James J. Horvath, Reviewed by Trevor Perera
Edition 4:	2001/10/23; Project 1254627 - Cleveland, Issued by James J. Horvath, Reviewed by Trevor Perera
Edition 5:	2003/05/02; Project 1436020 - Cleveland, Issued by James J. Horvath, Reviewed by Trevor Perera
Edition 6:	2004/01/23; Project 1519888 - Cleveland, Issued by James J. Horvath, Reviewed by Trevor Perera
Edition 7:	2012/09/11; Project 2552861 - Cleveland, Issued by Valdis Udris, Reviewed by Trevor Perera Drawings replaced: 176 Drawings added: 200-204
Edition 8:	2014/07/22; Project 2745788 - Cleveland, Issued by Valdis Udris, Reviewed by Trevor Perera Drawings added: 205-208
Edition 9:	July 21, 2017; Project 70144384 – Cleveland, Prepared by Danny Glenboski; Reviewed by Trevor Perera. Revised drawing: 45
Edition 10:	June 14, 2018; Project 70178927 – Cleveland. Prepared by Danny Glenboski; Reviewed by J. Kristoff-Kichka. Drawing added 209-212; Drawing revised 130, 147.

Contents: Certificate of Compliance - Pages 1 to 3 Supplement to Certificate of Compliance - Page 1 Description and Tests - Page 1 to 14 Att1 M and P Test Plan - Pages MP1 to MP25 Att2 Drawings - Pages 1 to 212

#### **PRODUCTS**

CLASS 3371 03 - VALVES (GAS) - Automatic for Gas Appliances CLASS 3371 83 - VALVES (GAS) - Automatic for Gas Appliances Model Number Size Capacity •For Use With Natural, Manufactured, Mixed, Propane, Liquefied Petroleum or LP Gas-Air Mixtures Automatic Valves, 2 psi Trade Name: Honeywell V4295A1007, V8295A1008 3/8 x 3/8 550,000 V4295A1015, V8295A1016 1/2 x 1/2 600,000 3/4 x 3/4 V4295A1023, V8295A1024 1,530,000 V4295A1031, V8295A1032 1 x 1 1,865,000 V4295A1049, V8295A1040 1-1/4 x 1-1/4 3,439,000 V8295A2033 1-1/4 x 1-1/4 3,439,000 V4295A1056, V8295A1057 1-1/2 x 1-1/2 5,176,755

This report shall not be reproduced, except in full, without the approval of CSA Group.

V4295A1189	1-1/2 x 1-1/2	5,176,755
V4295A1064, V8295A1065	2 x 2	8,200,000
V4295A1197	2 x 2	8,200,000
V4295A1072, V4295A1205	2-1/2 x 2-1/2	12,000,000
V4295A1080, V4295A1213	3 x 3	14,422,825
V4295S1005, V8295S1006	3/4 x 3/4	850,000
V4295S1013, V8295S1014	1 x 1	1,010,000
V4295S1021, V8295S1022	1-1/4 x 1-1/4	2.703.000

The 3/8 in. to 1 in. sizes in the V(4,8)295A and V4297A Series (2 psi) may be utilized as safety shutoff valves for commercial/industrial (C/I) applications.

Automatic Valves, 5 psi

V4295A1098	3/8 x 3/8	800,000
V4295A1106	1/2 x 1/2	1,100,000
V4295A1114	3/4 x 3/4	2,300,000
V4295A1122	1 x 1	3,100,000
V4295A1130	1-1/4 x 1-1/4	7,300,000
V4295A2045	1-1/4 x 1-1/4	7,300,000
V4295A1148	1-1/2 x 1-1/2	8,500,000
V4295A1155	2 x 2	14,000,000
V4297A1005	1 Adapter x 1 Adapter	2,300,000
V4297A1013	1-1/2 Adapter x 1-1/2 Adapter	8,500,000
V4297S1003	1 Adapter x 1 Adapter	800,000
V4297S1011	1-1/4 Adapter x 1-1/4 Adapter	7,300,000

The 3/8 in to 1 in. sizes in the V(4,8)295A and V4297A Series (2 psi) and the 1 in. to 2 in. sizes in the V4295A and V4297A Series (5 psi) may be utilized as safety shutoff valves for commercial/industrial (C/I) applications.

CLASS 3371 04 - VALVES (GAS) - Automatic Safety Shutoff Valves for Gas Appliances

For use with Natural and Propane Gases

Automatic Valves, 2 psi		
V4295A1007, V8295A1008	3/8 x 3/8	550,000
V4295A1015, V8295A1016	1/2 x 1/2	600,000
V4295A1023, V8295A1024	3/4 x 3/4	1,530,000
V4295A1031, V8295A1032	1 x 1	1,865,000
Automatic Valves, 5 psi		
V4295A1122	1 x 1	3,100,000
V4295A1130	1-1/4 x 1-1/4	7,300,000
V4295A2045	1-1/4 x 1-1/4	7,300,000
V4295A1148	1-1/2 x 1-1/2	8,500,000
V4295A1155	2 x 2	14,000,000
V4297A1005	1 Adapter x 1 Adapter	2,300,000
V4297A1013	1 Adapter x 1 Adapter	8,500,000
V4297S1003	1 Adapter x 1 Adapter	800,000
V4297S1011	1 Adapter x 1 Adapter	7,300,000

The above models are certified as Commercial/Industrial Safety Shutoff Valves when marked with "C/I" on the valve

#### **APPLICABLE REQUIREMENTS**

ANSI Z21.21-2015 • CSA 6.5-2015 Automatic Valves for Gas Appliances

#### MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

All markings in compliance with the applicable requirements are found on descriptive report page 4. Ink is Sony Resin Ribbon TR4070

The product shall be marked as follows:

- Manufacturer name "Honeywell" (located on label)
- Model designation (located on label)
- Maximum Pressure (located on label)
- Gas Flow direction (molded on body)
- Voltage, current and frequency if AC or Voltage DC, current for DC products
- Certification Mark



• A four digit date code YYWW format

#### **ALTERATIONS**

No alterations were required.

#### FACTORY TESTS

The submittor shall ensure that the following factory tests are conducted at the frequency specified and the results are documented and made available for review by CSA field services representatives:

Test	<u>Frequency</u>
Leakage (2.4) - at room temperature Pass/Fail Criteria	100%
<ul> <li>The automatic valve shall not leak externally at a rate in excess of 200 cubic centimeters per hour at an inlet pressure of 3 or 7.5 psi.</li> <li>Leakage through the automatic valve shall not exceed 235 cubic centimeters per hour at inlet pressures of 2 in. w.c and 3 or 7.5 psi.</li> </ul>	
<ul> <li>Dielectric strength (2.8.2) - If the valve employs a component(s), such as a solid-state component(s), that can be damaged by the dielectric potential, the point of connection of this component(s) to the enclosure may be disconnected for the purpose of this test. As an alternative, this test may be conducted for 1 second with the voltage increased by 20 percent over that specified in 2.8.2 (dielectric strength test).</li> <li>Pass/Fail Criteria</li> <li>A line-voltage electrical device shall be capable of withstanding, for 1 minute without breakdown, the application of a 60-cycle alternating potential of 1,000 volts plus twice the maximum rated voltage between uninsulated line-voltage live-metal parts and the enclosure with the contacts open and closed; between line-voltage terminals of opposite polarity with the contacts closed and all other electrical components disconnected; and between different line-voltage circuits and between uninsulated live-metal parts of opposite polarity in or between line-voltage and low-voltage circuits.</li> <li>A low-voltage electrical device shall be capable of withstanding, for 1 minute without breakdown, the application of a 60 cycle alternating potential of 500 volts applied between uninsulated low-voltage live-metal parts of opposite polarity (with contacts, if any, closed), and between uninsulated low-voltage live-metal parts and the enclosure and grounded dead-metal parts.</li> </ul>	100%
<ul> <li>Proof-of-Closure Operation (3.12)</li> <li>Pass/Fail Criteria</li> <li>The valve port is considered closed when the leakage through the valve does not exceed 1 cubic foot per hour gas at 150 percent of rated inlet pressure applied to the valve inlet.</li> </ul>	100%
<ul> <li>Closing Time (4.4) Pass/Fail Criteria</li> <li>A C/I valve shall open and close in less than 2 seconds after being energized and de-energized.</li> </ul>	100%
<ul> <li>Capacity (2.6) Pass/Fail Criteria</li> <li>The capacity of an automatic valve shall not be less than that specified by the manufacturer at a pressure drop equal to 1.0 inch water column.</li> <li>An automatic valve shall provide at least 90 percent of the flow determined in 2.6.1 when operated at the manufacturer's minimum and maximum ambient temperatures and 85 percent of the manufacturer's rated voltage.</li> </ul>	Annually
<ul> <li>Continued operation (2.11)</li> <li>Pass/Fail Criteria</li> <li>An automatic valve shall withstand 100,000 cycles of opening and closing without</li> </ul>	Annually

any mechanical failure, impairment of operation, apparent damage, undue heating, and without the development of excessive noise or leakage. At the end of the 100,000 cycles of operation the valve shall comply with 2.4 and 2.8.

Leakage (2.4)	Annually
Pass/Fail Criteria	
• The automatic valve shall not leak externally at a rate in excess of 200 cubic centimeters per hour at an inlet pressure of 3 or 7.5 psi. at the manufacturer's specified minimum and maximum operating temperatures.	
• Leakage through the automatic valve shall not exceed 235 cubic centimeters per hour at inlet pressures of 2 in. w.c and 3 or 7.5 psi. at the manufacturer's specified minimum and maximum operating temperatures.	
Electrical operating characteristics (2.7.3) Pass/Fail Criteria	Annually
• The electrical operator of a normally closed automatic valve having terminals or wire leads shall be subjected to an overvoltage of 120 VAC or 240 VAC for 5 minutes and shall comply with the provisions of 2.4 (Leakage).	
Dielectric strength tests with solid-state components connected (2.8.2) Pass/Fail Criteria	Annually
<ul> <li>A line-voltage electrical device shall be capable of withstanding, for 1 minute without breakdown, the application of a 60-cycle alternating potential of 1,000 volts plus twice the maximum rated voltage between uninsulated line-voltage live-metal parts and the enclosure with the contacts open and closed; between line-voltage terminals of opposite polarity with the contacts closed and all other electrical components disconnected; and between different line-voltage circuits and between uninsulated live-metal parts of opposite polarity in or between line-voltage and low-voltage circuits.</li> <li>A low-voltage electrical device shall be capable of withstanding, for 1 minute without breakdown, the application of a 60 cycle alternating potential of 500 volts applied between uninsulated low-voltage live-metal parts of opposite polarity (with contacts, if any, closed), and between uninsulated low-voltage live-metal parts and the enclosure and grounded dead-metal parts.</li> </ul>	
<ul> <li>Strength and deformation (2.3.2 and 2.3.3) Pass/Fail Criteria</li> <li>An automatic valve shall be capable of withstanding, without deformation impairing valve operation, breakage or leakage, a turning effort for 15 minutes. The valve shall then comply with the leakage test in 2.4.1 and 2.4.2 except at room temperature and shall be examined for deformation and breakage.</li> <li>An automatic valve shall be capable of withstanding a bending moment for 15 minutes in four different positions, separated by 90°, around the horizontal inlet axis. The valve shall then comply with the leakage test 2.4.1 and 2.4.2 except at room temperature and shall be examined for deformation and breakage.</li> </ul>	Annually
<ul> <li>Surge test (4.5) Pass/Fail Criteria</li> <li>A closed valve shall remain closed on a sudden change of upstream pressure over a range of 0 to 150% of the maximum rated inlet pressure in one-half second. The test shall be repeated 5 times and the highest internal leakage for any one test shall be added to the</li> </ul>	Annually

leakage determined in 2.4.2. The total shall not exceed the leakage allowed in 2.4.2.

#### SPECIAL INSTRUCTIONS FOR FIELD SERVICES

- 1. Component descriptions marked with either the "(INT)" or "(INT\*)" identifiers may be substituted with other components providing the requirements specified under the notes in the "Description" are complied with.
- 2. This certification does not extend to the substitution of materials or changes in the construction or composition of products, nor factory location without prior written authorization.

#### **COMPONENT SPECIAL PICKUP**

- 1. Component descriptions marked with the identifier "(CT)" are subject to annual pickup and Conformity Testing.
- 2. No component special pickup is required.

#### **DESCRIPTION**

#### Notes:

- 1. Component Substitution
  - a) Critical components (those identified by mfr name, cat no), which are NOT identified with either "INT" or "INT\*" are not eligible for substitution without evaluation and report updating
  - b) The term "INT" means a "Certified" and/or "Listed" (or a "Recognized" and/or "Accepted") component may be replaced by one "Certified" and/or "Listed" by another certification organization accredited by the appropriate accreditation body or scheme requirements to the correct standard, for the same application; providing the applicable country identifiers are included and requirements in item "d" below are complied with.
  - c) The Term "INT\*" means a "Recognized" and/or "Accepted" component may be replaced by one "Recognized" and/or "Accepted" by another certification organization accredited by the appropriate accreditation body or scheme requirements to the correct standard, for the same application, providing the applicable country identifiers are included, the component is **also** CSA Certified, the requirements in item "d" below are complied with and any "conditions of suitability" for the component (as recorded in this descriptive report) are complied with.
  - d) Components which have been substituted, must be of an equivalent rating, configuration (size, orientation, mounting) and the applicable minimum creepage and clearance distances are to be maintained from live parts to bonded metal parts and secondary parts.
  - e) Substitution of a "Certified" and/or "Listed" component with a component that is "Recognized" or "Accepted" is not permitted without evaluation and report updating.

#### MODEL NUMBER BREAKDOWN

- V4295A Automatic gas valve having a normally closed solenoid rated at 120 VAC, 50/60 Hz (3/8 in. NPT (F) to 3 inch NPT (F) sizes)
- V8295A Same as V4295A, except solenoid rated at 24 VAC, 50/60 Hz (3/8inch NPT (F) to 2 inch NPT (F) sizes)
- V4295S Same as V4295A, except for normally-open solenoid (3/4 in. NPT (F) to 1-1/4 inch NPT (F) sizes)
- V8295S Same as V8295A, except for normally-open solenoid (3/4 in. NPT (F) to 1-1/4 inch NPT (F) sizes)
- V4297A Similar to V4295A except it includes mounting tabs for bolt on connections.
- V4297S Similar to V4297A except normally open vent valve (NOVV)

The Model Nos. V4295A, V4297A and V8295A (3/8 in. NPT (F) to 1 inch NPT (F) sizes, 2 psi) and V4295A and V4297A (1 in. NPT (F) to 2 inch NPT (F) sizes, 5 psi) may be utilized as safety shutoff valves for commercial/industrial (C/I) applications.

#### Suffixes

Х	-	Variation(s)	- size
XXX	-		- rated current, pressure

#### ACCESSORY TYPE

Automatic Valve for Gas Appliances

Safety Shutoff Valve for Commercial/Industrial (C/I) Applications

#### **SPECIFICATIONS**

Ambient Temperature Range:	-40°F to 175°F -40°F to 145°F (V4	295A2045, V829	5 Series)
Maximum Operating Pressure:	2 or 5 psig		
Model No.	Size-NPT(F)	Capacity (Btu/hr)	Electrical Rating

(Btu/hr) 550,000 600,000	Electrical Rating .160A, 120 VAC, 50/60 Hz
550,000 600,000	.160A, 120 VAC, 50/60 Hz
600,000	1.00
1 520 000	.160A
1,530,000	.160A
1,865,000	.160A
3,439,000	.340A
3,439,000	73 VA
5,176,755	.300A
8,200,000	.525A
12,000,000	.575A
14,422,825	.675A
5,176,755	.300A
8,200,000	.525A
12,000,000	.575A
14,422,825	.675A
950.000	
850,000	.160A, 120 VAC, 50/60 HZ
1,010,000	.160A
2,703,000	.340
550,000	0.80A, 24 VAC, 50/60 Hz
600,000	0.80A
1,530,000	0.80A
1,865,000	0.80A
3,439,000	1.60A
3,439,000	48VA
5,176,755	1.70A
8,200,000	2.80A
850,000	0.80A, 24 VAC, 50/60 Hz
1,010.000	0.80A
2,703,000	2.40A
	1,530,000 1,865,000 3,439,000 3,439,000 5,176,755 8,200,000 12,000,000 14,422,825 5,176,755 8,200,000 12,000,000 14,422,825 850,000 1,010,000 2,703,000 1,865,000 1,865,000 3,439,000

Capacities are based on a gas having a heating value of 1,000 Btu per cu. ft. and a specific gravity of 0.64 at a pressure drop of 5.6 in. w.c.

V4295A1098	3/8 x 3/8	800,000	120 VAC, 50/60 Hz, 0.16A
V4295A1106	1/2 x 1/2	1,100,000	120 VAC, 50/60 Hz, 0.16A
V4295A1114	3/4 x 3/4	2,300,000	120 VAC, 50/60 Hz, 0.20A
V4295A1122	1 x 1	3,100,000	120 VAC, 50/60 Hz, 0.20A
V4295A1130	1-1/4 x 1-1/4	7,300,000	120 VAC, 50/60 Hz, 0.55A
V4295A1148	1-1/2 x 1-1/2	8,500,000	120 VAC, 50/60 Hz, 0.55A
V4295A1155	2 x 2	14,000,000	120 VAC, 50/60 Hz, 0.54A

Capacities are based on a gas having a heating value of 1,000 Btu per cu. ft. and a specific gravity of 0.64 at a pressure drop of 14.0in. w.c.

#### **REVISION INDEX**

Rev.		Letter/		Description	
No.	Date	Rpt. No.	Change Authorized	Page Number	Init
1	09/25/95	08/29/95	Addition of Normally Open solenoid valve Sizes 3/4", 1" and 1-1/4"	101A1 thru 124A1	RKW
2	03/07/96	01/22/96 Insp.	New Dwg. REV B	045	KNP
		Rpt.	New Users Manual	100	

			New Labels	099	
			Upper Body Dwg Inserted	021A	
			Sleeve ASM Dwg Inserted	028B	
			Seal Plate Dwg Inserted	051A	
			Seal Dwg. Inserted	063A	
		11/13/95 Insp.	Coil Dwgs. Inserted	085A thru 085F	
		Rpt.	in Report.		
3	06/17/97	C2030014 Rev.	Added Models V8295 (A,S); V4295A	125 thru 140, 2A3-1	MLA
		3	Series & V8295A Series of sizes 3/8"	thru 2A3-9.	
			thru 1" are also declared as C/I valves.		
4	06/19/97	04/21/97	Document additional drawings.	022-1, 023-1, 051B	AU
5	08/29/97	07/28/97	Renumber, update and add descriptive	099 - 142, 103-1,	AU
			material, formerly 002A3-(1-9), 099,	107-(1,2,3), 125A -	
			100, (101-124)A1, 125-140.	131A	
6	03/06/98	C2030014	Added 5 psi V4295A series	143-166	VU
7	06/16/99	Letter of	Add V4297A(1005,1013) and	167-175	JJH
		05/11/99	V4297S (1003,1011)		

CSA No.	Description
MP (25 pages)	Manufacturing and Production Test Plan
001,002	Photographs - Unit, Assembly
003	Installation - Mrkg. 3/8", 1/2"
008	3/4", 1"
013	1-1/4"
016	1-1/2"
019	2"
022	2-1/2"
023	3"
004-007	Detail - Body Valve 3/8",1/2"
009-012	3/4", 1"
014,015,111	1-1/4"
017,018	1-1/2"
020,021,021A	2"
022-1	2-1/2"
023-1	3"
024-028,028(A,B)	Sleeve Assemblies
029-033	Plunger
034-042	Cover
043-046	Plate
047-051,051(A,B)	Plate Seal
052-063,063A	Seal
064-068	Spring
069-074	Screen
075-079	Coil Housing
080-084	"O" Ring
085-090	Coil Detail
091-093	Junction Box
094-098	P.C. Board Detail
099	Parts and Assembly 3/4" V4295S Series
100	1"

CSA No.	Description	
MP (25 pages)	Manufacturing and Production Test Plan	
109	1-1/4"	
099A	Parts and Assembly 3/4" V8295S Series	
100A	1"	
109A	1-1/4"	
110	Installation - Mrkg. 1-1/4"	
101,102,124	Cover	
103,120	Plunger	
104,113	Plunger - Shaft	
105,121	Spring	
106	Сар	
107,119	Plate	
108	Plug	
112,116	O-Ring	
114,103-1	Sleeve	
115	Screen	
117	Plunger - Stop	
118,107-1	Plate - Copper	
122,107-3	Plate Seal	
123,107-3	Seal - Rubber	
125,126	Parts and Assembly3/8", 1/2" V4295A Series	
127,128	3/4", 1"	
129	1-1/4"	
130	V4295A / V8295A 1"½ NPT	
132	2-1/2"	
131,133	2", 3"	
125A,126A	Parts and Assembly3/8",1/2" V8295A Series	
127A,128A	3/4", 1"	
129A	1-1/4"	
130A	1-1/2"	
131A	2"	
134-138	Bobbin - V8295(A,S) Series	
139	PCB - Solenoid Valve	
140,141	Labels	
142	Instruction Sheet (6 pages)	
143	Installation Drawing (INST0091)	
144	Solenoid Valve 3/8" (V4295A1098)	
145	Solenoid Valve 1/2"(V4295A1106)	
146	Solenoid Valve 3/4"(V4295A1114)	
147	Solenoid Valve 1"(V4295A1122)	
148	Solenoid Valve 1-1/4"(V4295A1130)	
149	Solenoid Valve 1-1/2"(V4295A1148)	
150	Solenoid Valve 2"(V4295A1155)	
151	Solenoid Valve 1-1/2"(PROTO191)	
152	Cannotto Per Elettrov.(CN020028)	
153	Cannotto Per Elettrov.(CN020029)	
154	Cannotto Per Elettrov.(CN020030)	
155	Perno Per Pistone(PE020020)	

CSA I	No.		Description
MP (	25 pages)		Manufacturing and Production Test Plan
156			Perno Per Pistone(PE020021)
157			Pistone Per Elettrov.(PI020005)
158			Pistone Per Elettrov.(PI020063)
159			Molla Pistone Elettrov.(MP020042)
160			Armatura Per Bobina(AEA20062)
161			(PC020028)
162			Coperchio Elettrov.(CA020042)
163			Coperchio Elettrov.(CA020043)
164			Tappa Cilindrico(TP020001)
165			Closed Position Indicator(KTCP1001)
166			2-5 PSI (V4295A1) Modified Component List
167			Solenoid Valve 1 V4297S1011 5 psi
168			Solenoid Valve 1" V4297S1003 5 psi
169			Solenoid Valve 2" V4297A1013 5 psi
170			Solenoid Valve 1" V4297A1005 5 psi
171			Bill of Materials V4297S1001
172			Bill of Materials V4297S1003
173			Bill of Materials V4297A1013
174			Bill of Materials V4297A1005
175			Coil Characteristics V4297(A,S) 5 psi
176	32004925-001 (2 pages)	Rev A	CPI switch for US market
177	CCA20001		Contienitore Visual Position Indicator
178	CTA20005		Conperichio Cont visual Position Indicator
179	DM020010		Dispositivo per Visual Position Indicator
180	AA020062		Astina Superiore per Visual Position Indicator
181	RN020062		Rondella per Visual Position Indicator
182	BS020510		Boccola DU 0510
183	OR020029		Anello Di Tenuta Tipo O-ring
184	SG020014		Seeger Alberi A14 UNI –7435
185	SG020055		Seeger Randiale C clip
186	MP020043		Molla per Visual Position Indicator
187	V1020068		Vite Testa (Screw)
188	GT020102		Guarnizione Coperchio Cont CS
189	OR020006		Guarnizione Tipo
190	NP020119		Molla Per Leva Per closed Position Indicator Switch
191	COA20002		Connettore MPM C183 Cablato
192	LV020005		Leva Micro Per Closed Switch Indicator Switch
193	RN020065		Rondella Washer
194	AA020063		Allunga Astina Per Visual Position Indicator
195	45.000.761		Locking Ring or Washer
196	RN020038		Rosetta Elastica Dentata
197	DD020002		Dado Per Raccordo Fissaggio
198	AA020065		Allunga Superiore Astina Closed Position Indicator Switch
199	ET034032		Label for Closed Position Indicator Switch
200	AA020067	Rev A	Fixing cap CPI switch
201	DM030010	Rev A	CPI holder assembly
202	ET024032	Rev B	Printed Label For Position Indicator

CSA	No.		Description		
MP (25 pages)			Manufacturing and Production Test Plan		
203	MP020125	Rev A	Spring CPI switch		
204	RN020080	Rev A	Spring support CPI switch		
205	50085214 (2 pages)	Rev A	Printed Wiring Board		
206	50088481	Rev A	Schematic		
207	50099471 (2 pages)	Rev A	Printed Wiring Board Assembly		
208	50099473 (2 pages)	Rev A	Partslist		
209	OR020262	Rev b	Specifiche "O-Ring" (Multiple O-ring drawing)		
210	FL020001	Rev A	Screen Serie VE4000/A/B/C VG4000 DN20		
211	GT020030	Rev 1	Guarnizione per coperhio contenitore circuito stampato USA		
212	GT020038	Rev 1	Guarnizione Ditenuta per Elettrov. EV120L25.2		

#### TEST HISTORY

Project No. 112491-23

Tests were conducted at CSA Cleveland Laboratory. The actual test data results are maintained in CSA Cleveland facility. Testing was conducted on model no. V4295 series.

Satisfactory results were obtained on the following tests:

ANSI Z21.21 Part I. Construction

Part II. Performance

- 2.1 General DNA No tests in this section
- 2.2 Test Gases DNA No tests in this section
- 2.3 Strength and Deformation
- 2.4 Leakage
- 2.5 Mounting for Test DNA No tests in this section
- 2.6 Capacity
- 2.7 Electrical Operating Characteristics
- 2.8 Dielectric Strength
- 2.9 Integrity of Operation DNA Control opens in less than one second
- 2.10 Gas Cracking DNA Valve is not thermally actuated
- 2.11 Continued Operation
- 2.12 Resistance to Permanent Damage of Excessive Supply Pressure
- 2.13 Internal Explosion Resistance DNA Valve does not employ electrical components in the gas way
- 2.14 Nonmetallic Materials
- 2.15 Marking Material Adhesion and Legibility
- Part III. Commercial/Industrial Safety Shut-Off Valves Construction

Part IV. Commercial/Industrial Safety Shut-Off Valves - Performance

- 4.1 ...
- 4.2 ...
- 4.3 Continued Operation
- 4.4 Closing Time
- 4.5 Valve Closure on Gas Pressure Surge

Part V. Manufacturing and Production Tests

Project No. 1154280 No testing required.

Project No. 1174437 No testing required.

Project No. 1254627 No testing required.

Project No. 1436020 No testing required.

Project No. 1519888 No testing required.

Project No. 2552861 No testing required.

Project No. 2745788 No testing required. Project No. 70144384 No testing required. All tests are extended.

Project 70178927

No tests are required to authorize this change. All tests are extended from Project 1815774 in Report 1815774. The M&P was not changed.

---End of Report---



Axxxx/V8295Axxxx					
TENSIONE CODICE BOBINA					
120V	BBA51301				
24V	BBA52401				

[	25	VI020068	SCREW 2.5x	SCREW 2.5x9.5 ZNT STEEL					-	3	
ļ	24	CTA20100	COVER	COVER				POLYCARBONATO			1
ļ	23	GT020030	RUBBER SE	RUBBER SEAL				GOMMA BUNAN			1
	22	ET024015	RATING PLA	RATING PLATE 60x50 HONEYWELL				POLYESTERE			1
1	21	ET024014	WIRING LAB	BEL 30x	(30		POLYESTERE			21	1
	20	AN020002	RING				AISI 302			07	1
4	19	VI020111	M6x16 SCRE	W			STEEL			-	1
4	18	TG020006	END CUP				POLYETILENE			-	2
1	17	OR022018	ORING 2018				NBR-MB276-70			28	1
ļ	16	VI020001	M8x20 SCRE	W			STEEL			-	4
ļ	15	SS020001	COPPER PL	ATE			P-CuZn40Pb2 (OT-58)			09	1
ļ	14	PI020006	PLUNGER				Fe 360B CROM./AVP			10/13	1
ļ	13	PE020022	STOP-PLUN	GER			AISI-303			08	1
	12	PC020029	PLATE SEAL	-			AICu6BIPb (AI11S)			06	1
41	11	GT020034	RUBBER SE	AL			NBR-PO70			27	1
1	10	OR024375	ORING 4375				NBR MB276-70			28	1
ļ	9	MP020024	SPRING				AISI 302			07	1
ļ	8	FL020002	SCREEN				AISI 303			08	1
ļ	7	TP020003	1/4" NPT PLU	JG			C40			-	3
ļ	6	CE020085	BODY-MACH	HINED			GD-ALSi12Cu (EN AB46100)			02	1
-	5	CN020018	SLEEVE				11SMn37(AVZ)			39	1
-	4	BS023210	BEARING				SIEEL			-	1
ļ	3	BS020606	DU 0606 BE/	ARING			STEEL			-	1
ł	2	CA020019	COVER				GD-AlSi12Cu (EN AB46100)			02	1
ł	1	BBA5xxxx	COIL COND	UII AS	SY - SEE TABLE		-			-	1
ļ	Ν°	CODICE	DESCRIPT	IONS			MATERIALS			M.S.	Q.ty
		TOLLERANZE G	ENERALI	2	2 AGGIORNATO DISEGNO			28/11/03			
	SP	IGOLI SM. 0.1 X	45	1 VI020111 SOST.VI020003 / AGG. DIS			M.P.	22/05/00			
ł		LUNGHEZZA E D	AMETRI + 0.1	0	EMISSIONE DISEGNO		B.C.	24/04/97			
	10	- 30	± 0.15	REV.	DESCRIPTION		NOME	DATA	VISTO	DATA	
	30 100	- 100 ) - 200	± 0.2 ± 0.3	MATERIA	ALE _	TRATTAMENTO		DIS. C.Bra	ndone	SCALA	
Ī		GRADO DI LAVORAZIONE			CODICE MAT. DUREZZA			DATA 04/04/07			
ſ	$\nabla = \sqrt[12.5']{}$			M.S			24/04/97		500110		
ľ				DENOMI	DENOMINAZIONE ELETTROVALVOLE SERIES			S DIMENSIONI A2		FUGLIU	
	nraw				V4295A / V8295A 1"½ NPT N.C. CLASSE "B" - DN40				N. DISEGNO		56
									v TZŬ		50
					24/120Vac 50/60Hz 2psi V8295A1057				57 I		
	TORINO ITALIA							V4295A40xx			



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						1
CODICE	SPECIFICHE MATERIALE		nA		±0.08	
OR023031	ELASTOMERO BUTADIENE-		7.59	±0.15	2.62	
OR020112	ELASTOMERO BUTADIENE-	-ACRILONITRILE	9.92	±0.15	2.62	
OR020115	ELASTOMERO BUTADIENE-	-ACRILONITRILE	11.91	±0.20	2.62	]
OR020119	ELASTOMERO BUTADIENE-	-ACRILONITRILE	15.08	±0.20	2.62 ①	
OR023081	ELASTOMERO BUTADIENE-	-ACRILONITRILE	20.24	±0.35	2.62	]nA * -
OR023100	ELASTOMERO BUTADIENE-	-ACRILONITRILE	25.07	±0.35	2.62	]
OR023118	ELASTOMERO BUTADIENE-	-ACRILONITRILE	29.82	±0.35	2.62	
OR023137	ELASTOMERO BUTADIENE-	-ACRILONITRILE	34.6	±0.35	2.62	
OR023143	ELASTOMERO BUTADIENE-	-ACRILONITRILE	36.14	±0.35	2.62	
OR023168	ELASTOMERO BUTADIENE-	-ACRILONITRILE	42.52	±0.50	2.62	
OR023206	ELASTOMERO BUTADIENE-	-ACRILONITRILE	52.07	±0.50	2.62	
OR023218	ELASTOMERO BUTADIENE-	-ACRILONITRILE	55.25	±0.50	2.62	
OR023250	ELASTOMERO BUTADIENE-	-ACRILONITRILE	63.17	±0.50	2.62	
OR023500	ELASTOMERO BUTADIENE-	-ACRILONITRILE	126.6	7±1.25	2.62	
OR023600	ELASTOMERO BUTADIENE-	-ACRILONITRILE	152.0	7±1.25	2.62	
OR023030	POLIMERO FLUORURATO	D	7.59	±0.15	2.62	
OR020113	POLIMERO FLUORURATO	D	11.91	±0.15	2.62	QUI A FIANCO R
						Propieta' della UGV <sub>sri</sub> . Senza per la costruzione dell'oggett
						All property rights reserve manufacture of the composition
						Written authorization.Any inf Tolleranze Generali
						Spigoli sm. 0.5 x 45
DESIGNAZIO	NI MATERIALI: AP/DIN	ISO/ASTM		APPROV	/. MATERIAL	
(C)=	MB276-F70	NBR/ NBR		MARTIN	MERKEL(2)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
						$\nabla = \nabla$
(U)=	FP /5	FPM/FKM (V	(TON)	PANTI	ECNICA (Z)	UNIVERSAL GAS VALVES



## DIMENSIONI VEDERE LA TABELLA ANCO RIPORTATA.

С

Codice mat.

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Durezza

Dimensioni	Modello
DENOMINAZIONE	
SPECIFICHE	_"0-R
DI SEZIONE	2.62

⊳ APPROV. MATERIALI

□ AGGIORN DATA LIST

Materiale VEDI TABELLA

MODIFICHE

sued							
۱LI	(2)	LT	7395				
ST	(1)	LT 2	295				
	N. MODIFICA	NDME	DATA	Q.TA UGUA	TIP GLIANZE	<u>'</u>	
Trattam	ento	Dis <sub>'L.</sub> -	Dis.L.TURRA Peso				
Durezza			Data 8/	<sup>Data</sup> 8/10/93 <sup>Visto</sup> M.R.			
Modello		MACCHÍN	A ,	GRUPPD	I		
		SCALA_		FOGLIO 3/3			
"0-	-RING"	N. DISEGND					
2.6	2	UKU2U262					
			-				

158158-1154280 Project 70178927 CSA No. 209

158158-1154280 Project 70178927 CSA No. 210





