



UL 2586A

STANDARD FOR SAFETY

Hose Nozzle Valves for Gasoline and Gasoline/
Ethanol Blends with Nominal Ethanol
Concentrations up to 85 Percent (E0 – E85)

ULNORM.COM : Click to view the full PDF of UL 2586A 2019

[ULNORM.COM](https://www.ulnorm.com) : Click to view the full PDF of UL 2586A 2019

UL Standard for Safety for Hose Nozzle Valves for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 – E85), UL 2586A

First Edition, Dated February 20, 2015

Summary of Topics

This revision of ANSI/UL 2586A includes an editorial revision to Supplement SA.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated November 16, 2018.

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

ULNORM.COM : Click to view the full PDF of UL 2586A 2015

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 2586A 2019

February 20, 2015
(Title Page Reprinted: April 1, 2019)



ANSI/UL 2586A-2019

1

UL 2586A

Standard for Hose Nozzle Valves for Gasoline and Gasoline/Ethanol

Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 – E85)

Prior to the first edition, the requirements for the products covered by this standard were included in the Outline of Investigation for Hose Nozzle Valves for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 – E85), UL 2586A.

First Edition

February 20, 2015

This ANSI/UL Standard for Safety consists of the First Edition including revisions through April 1, 2019.

The most recent designation of ANSI/UL 2586A as an American National Standard (ANSI) occurred on April 1, 2019. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

UL's Standards for Safety are copyrighted by UL. Neither a printed nor electronic copy of a Standard should be altered in any way. All of UL's Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of UL.

COPYRIGHT © 2019 UNDERWRITERS LABORATORIES INC.

No Text on This Page

ULNORM.COM : Click to view the full PDF of UL 2586A 2019

CONTENTS

INTRODUCTION

1 Scope	5
2 General	6
2.1 Components	6
2.2 Units of measurement	7
2.3 Undated references	7
3 Glossary	7

CONSTRUCTION

4 Assembly	8
4.1 General	8
4.2 Hose nozzle valves	8
5 Materials	10
5.1 Metallic materials	10
5.2 Nonmetallic materials	13
5.3 Casting impregnation materials	15
5.4 Internal parts	15
5.5 Blending options	16
6 Bodies and Covers	16
7 Diaphragms	18
8 Springs	18
9 Operating Mechanisms	18

PERFORMANCE

10 General	19
11 Deformation Test	20
12 Long Term Exposure Test	20
12.1 General	20
12.2 Samples	21
12.3 Method	21
12.4 Results	22
13 External Leakage Test	22
14 Hose Nozzle Valve Guard Strength Test	23
15 Operation Test	24
15.1 Automatic hose nozzle valve	24
15.2 Bellows secondary shut off operation	25
16 Pull Test	25
17 Sensitivity Test	26
18 Hose Nozzle Endurance Test	26
19 Bellows Secondary Shut Off Operation Test	27
20 Visible Discharge Indicator Tests	27
20.1 Thermal shock test	27
20.2 Drop test	27
21 Hydrostatic Strength Test	27
22 Electrical Continuity Test	28
23 Salt Spray Test	28
24 Moist Ammonia-Air Stress Cracking Test	29

25 Marking Adhesion Test29
26 Blending Cycling Test30

MANUFACTURING AND PRODUCTION

27 General30

INSTALLATION INSTRUCTIONS

28 General31

MARKING

29 General31

SUPPLEMENT SA - Test Fluids

SA.1 DetailsSA1

ULNORM.COM : Click to view the full PDF of UL 2586A 2019