

ISO/FDIS-8426-1:2025(en)

ISO-~~/TC-131/SC-08/WG-13-B~~

Secretariat:- BSI

Date: 2025-~~04-23~~xx

Hydraulic fluid power—— Determination of derived displacement of positive displacement pumps and motors——

Part 1: **Two-step Toet method**

Transmissions hydrauliques — Détermination de la cylindrée calculée des pompes et moteurs volumétriques —

Partie 1: Méthode Toet à deux étapes

iTech Standards

Formation de la cylindrée calculée des pompes et moteurs volumétriques

(<https://standards.itech.ae>)

Document Preview

<https://standards.iteh.ai/catalog/standards/iso/05fb0a12-c007-4d90-bf57-92>

FDIS stage

ISO/FDIS 8426-1:2025(en)

© ISO 2025

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
[Email](#): copyright@iso.org
[Website](#): www.iso.org

Published in Switzerland

Formatted: Font: Bold

Formatted: HeaderCentered

Commented [eXtyle1]: The reference "ISO 2025" is to a withdrawn standard

Formatted: Default Paragraph Font

Formatted: Default Paragraph Font

Formatted: Adjust space between Latin and Asian text,
Adjust space between Asian text and numbers

Formatted: French (France)

Formatted: French (France)

Formatted: French (France)

iTeh Standards

(<https://standards.iteh.ai>)

Document Preview

ISO/FDIS 8426-1

<https://standards.iteh.ai/catalog/standards/iso/05fb0a12-c907-4d90-bf57-27e693a09897/iso-fdis-8426-1>

Formatted: FooterPageRomanNumber, Space After: 0 pt

Contents

Foreword	v
Introduction	vi
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and units	1
5 Test procedure	3
5.1 General requirements	3
5.2 Number of steady-state shaft speeds and differential pressures	3
5.3 Variable displacement unit	4
5.4 Reverse flow unit	4
5.5 Unit used as pump or motor	4
6 Calculation of derived displacement	4
6.1 General	4
6.2 The two-step Toet method	4
7 Test report	7
Annex A (informative) Test report examples	9
Annex B (informative) Formulae for fitting a line	19
Bibliography	21

Formatted: Font: 11 pt, Bold, Font color: Auto

Formatted: Font: Bold

Formatted: HeaderCentered, Left

Formatted: None, Adjust space between Latin and Asian text, Adjust space between Asian text and numbers

Contents	iii
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and units	2
5 Test procedure	3
5.1 General requirements	3
5.2 Number of steady-state shaft speeds and differential pressures	3
5.3 Variable displacement unit	3
5.4 Reverse flow unit	3
5.5 Unit used as pump or motor	3
6 Calculation of derived displacement	4
6.1 General	4
6.2 The two-step Toet method	4
7 Test Report	5
Annex A (informative) Test report examples	7
A.1 Pump test report example	7
A.1.1 Raw Data	7

Formatted: Font: 10 pt

Formatted: Font: 10 pt

Formatted: Font: 10 pt

Formatted: FooterCentered, Left, Space Before: 0 pt, Line spacing: single

Formatted: FooterPageRomanNumber, Left, Space Before: 0 pt, After: 0 pt, Line spacing: single

ISO/FDIS 8426-1:2025(en)

A.1.2 Example report.....	8
A.1.3 Two-step Toet method results.....	8
A.2 Motor test report example.....	10
A.2.1 Raw data.....	10
A.2.2 Example report.....	11
A.2.3 Two-step Toet method results.....	12
Annex B (informative) Formulae for fitting a line	14
Bibliography	15

Formatted: Font: Bold

Formatted: HeaderCentered

**iTeh Standards
(<https://standards.iteh.ai>)
Document Preview**

[ISO/FDIS 8426-1](#)

<https://standards.iteh.ai/catalog/standards/iso/05fb0a12-c907-4d90-bf57-27e693a09897/iso-fdis-8426-1>

Formatted: FooterPageRomanNumber, Space After: 0 pt