Compressors, Compressed air
and Vacuum technology

# Standards, VDMA Specifications and recommendations

Status: July 2022

# Contents

# Foreword

This directory lists what we consider to be the most important standards on compressors for air and process gases, compressed air technology and vacuum technology. It is intended to provide an overview of the standards and their current edition but does not claim to be complete.

This list represents a snapshot. As the work on standards in the many committees is continuously progressing and the most diverse standards are in various stages of revision, we cannot guarantee that the information is up-to-date and correct. It is therefore advisable to conduct your own research, e.g., for use in legally binding documents.

Some (not all) of the ISO and CEN standards have been adopted into the German body of DIN standards. To avoid duplication as far as possible and to ensure good readability, the German versions are therefore called DIN EN and DIN EN ISO standards. They are not listed again as EN or ISO standards, whereby the associated ISO or CEN standards are the actual original or leading versions, e.g., in questions of interpretation.

We have included other standards if we had the impression that they are particularly relevant to the safety aspect and were mentioned, for example, in the safety standards for the relevant products. In addition, standards are included if they address products from the compressor, compressed air and vacuum technology sectors.

In addition, we have included standardisation-relevant regulations/guidelines from the compressor trade association, compressed air and vacuum technology-related organisations such as Pneurop, VDMA, VDI and API (American Petroleum Institute), ANSI (American National Standards Institute), IOGP (International Association of Oil & Gas Producers).

Furthermore, we have included relevant standards from the field of “electrical engineering”, which were mentioned to us by the members of the vacuum technology department in the VDMA.

Please inform us if further standards should be included.

The international standardisation bodies for the field of compressors, compressed air and vacuum technology are:

- ISO TC 112 Standardisation of vacuum technology both in the field of apparatus (essential characteristics, dimensions and materials), and in the field of definitions and methods of measurement with Working groups:
  - ISO/TC 112/WG 1 Vacuum pumps;
  - ISO/TC 112/WG 2 Vacuum instrumentation;
  - ISO/TC 112/WG 3 Vacuum hardware
  - For more information on the associated standards: http://www.iso.org/iso/home/standards_development/list_of_iso_technical_committees/iso_technical_committee.htm?commid=51654

- ISO TC 118 Compressors and pneumatic tools, machines and equipment with Subcommittees:
  - ISO/TC 118/SC 1 Compressors for the process, petroleum, chemical and gas industry services (Process compressors);
  - ISO/TC 118/SC 3 Pneumatic tools and machines
    - Excluded: pneumatic tool shanks and tool fitting dimensions, as they fall within the scope of ISO / TC 29;
  - ISO/TC 118/SC 4 Compressed air treatment technology;
  - ISO/TC 118/SC 6 Air compressors and compressed air systems

- For more information on the associated standards: http://www.iso.org/iso/standards_development/technical_committees/list_of_iso_technical_committees/iso_technical_committee.htm?commid=51850

- CEN TC 232 Standardisation in the field of compressors and vacuum pumps, portable and stationary, for all compressible gases, and their systems.
  - This work does not apply to sealed motor compressors used in refrigerating and heat pump systems in which the refrigerant is evaporated and condensed in a closed circuit. (Covered by CEN/TC 182)
  - For more information on the associated standards: https://standards.cen.eu/dyn/www/f?p=CENWEB:6:::NO:https://standards.cen.eu/dyn/www/f?p=204:32:0::::FSP_ORG_ID:6213&cs=168C3DA9D0AAD6AD-F221245E82B5252B3

# Abbreviations

## in alphabetical order

| | |
|---|---|
| **Amd., A1 etc** | Amendment |
| **ANSI** | American National Standards Institute |
| **API** | American Petroleum Institute |
| **CAGI** | Compressed Air and Gas Institute |
| **CEN** | European Committee for Standardisation |
| **Corr.** | Correction |
| **DIN** | German Institute for Standardisation |
| **DIS** | Draft International Standard (Draft International Standard) |
| **DTR** | Draft Technical Report (International Draft Technical Report) |
| **DTS** | Draft Technical Specification (International Draft Technical Specification) |
| **EN** | European Standard |
| **FDIS** | Final Draft International Standard (Final Draft of an International Standard) |
| **FV** | Trade association |
| **IEC** | International Electrotechnical Commission |
| **IOGP** | International Association of Oil & Gas Producers |
| **ISO** | International Standardization Organization |
| **KDV** | Compressors, compressed air and vacuum technology |
| **NP** | New Proposal |
| **OPC** | Open Platform Communications |
| **OPC UA** | Open Platform Communications Unified Architecture |
| **PNEUROP** | European Committee of Manufacturers of Compressors, Vacuum Pumps and Pneumatic Tools |
| **pr** | Project |
| **SC** | Subcommittee |
| **TC** | Technical Committee |
| **TR** | Technical Report |
| **TS** | Technical Specification |
| **VDI** | Association of German Engineers |
| **VDMA** | German Engineering Federation |

# DIN Standards

| Document number | Title | Issue date |
|---|---|---|
| DIN 1314 | Pressure; Basic Definitions, Units | 1977-02 |
| DIN 1343 | Reference conditions, normal conditions, normal volume; concepts and values | 1990-01 |
| DIN 1945-1 | Displacement compressor; thermodynamic acceptance and performance test | 1980-11 |
| DIN 3341 | Plate valves for displacement compressors; suction valves, discharge valves; main dimensions, materials, installation | 1989-07 |
| DIN 3489 | Couplings for compressed air – Claw coupling, 42 mm internal width, without securing nut – Coupling with male, female, hose and closure connection ends, rotary claw couplings, joint ring | 2001-11 |
| DIN 8530 | Pneumatic tools, shanks and bushings for riveting and chipping hammers | 1971-08 |
| DIN 8531 | Pneumatic tools, prepared rivet snaps | 1971-08 |
| DIN 8532 | Pneumatic tools, shank chisels | 1971-08 |
| DIN 8533 | Pneumatic tools, rammer butts, cones for piston-rods | 1970-04 |
| DIN 8534 | Pneumatic tools, sieves, sieve-nipples | 1970-10 |
| DIN 8535 | Pneumatic tools, screw nozzle tips | 1970-01 |
| DIN 8536 | Pneumatic tools; transition nozzle tips | 1970-10 |
| DIN 8537 | Pneumatic tools; cone nozzle tips, connection nuts, connection nipples | 1970-10 |
| DIN 13260-2 | Supply systems for medical gase – Part 2: Dimensions and allocation of probes and gas-specific connection points for terminal units | 2013-09 |
| DIN 24063 | Operating elements (control devices) for pneumatic tools; terms, safety requirements | 1980-01 |
| DIN 24290 | Jet pumps (ejectors); terms, classification | 1981-08 |
| DIN 24291 | Jet pumps (ejectors); denomination of parts | 1974-04 |
| DIN 24901-4 | Graphical symbols for technical drawings for use in the engineering and related fields; compressors, fans; presentation in flow diagrams | 1983-07 |
| DIN 28400 Supplement 1 | Vacuum technology, terms and definitions; alphabetical index | 1982-10 |
| DIN 28400-1 | Vacuum technology; terms and definitions; general terms | 1990-05 |
| DIN 28400-2 | Vacuum technology; terms and definitions, vacuum pumps | 1980-10 |
| DIN 28400-3 | Vacuum technology – Terms and definition – Part 3: Vacuum gauges | 2013-06 |
| DIN 28400-5 | Vacuum technology; terms and definitions; vacuum drying and lyophilisation | 1981-03 |
| DIN 28400-6 | Vacuum technology; terms and definitions, surface analysis techniques | 1980-10 |
| DIN 28400-7 | Vacuum technology; terms and definitions, vacuum metallurgie | 1978-07 |
| DIN 28400-8 | Vacuum technology – Terms and definition – Part 8: Vacuum systems, components and accessories | 1997-11 |
| DIN 28401 | Vacuum technology – Graphical symbol – Summary | 2022-02 |
| DIN 28403 | Vacuum technology; quick release couplings; clamped type couplings | 1986-09 |
| DIN 28404 | Vacuum technology; flanges; dimensions | 1986-10 |
| DIN 28427 | Vacuum technology; acceptance specifications for diffusions pumps and vapour jet vacuum pumps for vapour pressures of the pump fluid <1 mbar | 1983-02 |
| DIN 28428 | Vacuum technology; acceptance specifications for turbomolecular pumps | 1978-11 |
| DIN 28429 | Vacuum technology – Acceptance specifications for ion getter pumps | 2014-05 |
| DIN 28430 | Vacuum technology – Rules for the measurement of steam jet vacuum pumps and steam jet compressor – Motive fluid: steam | 2017-06 |
| DIN 28431 | Vacuum technology – acceptance specifications for liquid ring vacuum pumps | 2019-03 |
| DIN 42925 | Terminal box cable entries for three-phase cage induction motors at rated voltages from 400 V to 690 V | 2004-12 |
| DIN 45635-1 | Measurement of noise emitted by machines; airborne noise emission; enveloping surface method; basic method, divided into 3 grades of accuracy | 1984-04 |
| DIN 51506 | Lubricant – VB lubricating oils with and without additives and VDL lubricating oil – Classification and requirements | 2017-08 |

# DIN EN Standards

| Document number | Title | Issue date |
|---|---|---|
| DIN EN 286-1 | Simple unfired pressure vessels designed to contain air or nitrogen – Part 1: Pressure vessels for general purposes; German and English version prEN 286-1:2019 | 2019-11 |
| DIN EN 286-1/A1 | Simple unfired pressure vessels designed to contain air or nitrogen – Part 1: Pressure vessels for general purposes; Amendment A1; German version EN 286-1:1998/ A1:2002 + AC:2002 | 2002-12 |
| DIN EN 286-1/A2 | Simple unfired pressure vessels designed to contain air or nitrogen – Part 1: Pressure vessels for general purposes; German version EN 286-1:1998/A2:2005 | 2005-12 |
| DIN EN 286-2 | Simple unfired pressure vessels designed to contain air or nitrogen – Part 2: Pressure vessels for air braking and auxiliary systems for motor vehicles and their trailers; German and English version prEN 286-2:2019 | 2019-11 |
| DIN EN 286-3 | Simple unfired pressure vessels designed to contain air or nitrogen – Part 3: Steel pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock; German and English version prEN 286-3:2019 | 2019-11 |
| DIN EN 286-4 | Simple unfired pressure vessels designed to contain air or nitrogen – Part 4: Aluminium alloy pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock; German and English version prEN 286-4:2019 | 2019-12 |
| DIN EN 378-1 | Refrigerating systems and heat pump – Safety and environmental requirement – Part 1: Basic requirements, definitions, classification and selection criteria; German version EN 378-1:2016+A1:2020 | 2021-06 |
| DIN EN 378-2 | Refrigerating systems and heat pump – Safety and environmental requirement – Part 2: Design, construction, testing, marking and documentation; German version EN 378-2:2016 | 2018-04 |
| DIN EN 378-3 | Refrigerating systems and heat pump – Safety and environmental requirement – Part 3: Installation site and personal protection; German version EN 378-3:2016+A1:2020 | 2020-12 |
| DIN EN 378-4 | Refrigerating systems and heat pump – Safety and environmental requirement – Part 4: Operation, maintenance, repair and recovery; German version EN 378-4:2016+A1:2019 | 2019-12 |
| DIN EN 472 | Pressure gauge – Vocabulary; German version EN 472:1994 | 1994-11 |
| DIN EN 547-1 | Safety of machinery – Human body measurement – Part 1: Principles for determining the dimensions required for openings for whole body access into machinery; German version EN 547-1:1996+A1:2008 | 2009-01 |
| DIN EN 614-1 | Safety of machinery – Ergonomic design principle – Part 1: Terminology and general principles; German version EN 614-1:2006+A1:2009 | 2009-06 |
| DIN EN 764-1 | Pressure equipment – Part 1: Vocabulary; German version EN 764-1:2015+A1:2016 | 2016-12 |
| DIN EN 837-1 | Pressure gauge – Part 1: Bourdon tube pressure gauges; dimensions, metrology, requirements and testing; German version EN 837-1:1996 | 1997-02 |
| DIN EN 837-2 | Pressure gauge – Part 2: Selection and installation recommendations for pressure gauges; German version EN 837-2:1997 | 1997-05 |
| DIN EN 837-3 | Pressure gauge – Part 3: Diaphragm and capsule pressure gauges; dimensions, metrology, requirements and testing; German version EN 837-3:1996 | 2019-08 |
| DIN EN 981 | Safety of machinery – System of auditory and visual danger and information signals; German version EN 981:1996+A1:2008 | 2009-01 |
| DIN EN 1005-2 | Safety of machinery – Human physical performance – Part 2: Manual handling of machinery and component parts of machinery; German version EN 1005-2:2003+A1:2008 | 2009-05 |
| DIN EN 1012-1 | Compressors and vacuum pump – Safety requirement – Part 1: Air compressors; German version EN 1012-1:2010 | 2011-02 |

| Document number | Title | Issue date |
|---|---|---|
| DIN EN 1012-2 | Compressors and vacuum pump – Safety requirement – Part 2: Vacuum pumps; German version EN 1012-2:1996+A1:2009 | 2011-12 |
| DIN EN 1012-3 | Compressors and vacuum pump – Safety requirement – Part 3: Process compressors; German version EN 1012-3:2013 | 2014-04 |
| DIN EN 1127-1 | Explosive atmosphere – Explosion prevention and protection – Part 1: Basic concepts and methodology; German version EN 1127-1:2019 | 2019-10 |
| DIN EN 1343 | Kerbs of natural stone for external paving – Requirements and test methods; German version EN 1343:2012 | 2013-03 |
| DIN EN 1343/A20 | Kerbs of natural stone for external paving – Requirements and test methods; Amendment A20 | 2014-07 |
| DIN EN 1594 | Gas infrastructure – Pipelines for maximum operating pressure over 16 bar – Functional requirements; German version EN 1594:2013 | 2013-12 |
| DIN EN 10207 | Steels for simple pressure vessel – Technical delivery requirements for plates, strips and bars; German version EN 10207:2017 | 2018-02 |
| DIN EN 10305-6 | Steel tubes for precision application – Technical delivery condition – Part 6: Welded cold drawn tubes for hydraulic and pneumatic power systems; German version EN 10305-6:2016 | 2016-08 |
| DIN EN 12021 | Respiratory equipment – Compressed gases for breathing apparatus; German version EN 12021:2014 | 2014-07 |
| DIN EN 12195-1 | Load restraining on road vehicle – Safety – Part 1: Calculation of securing forces; German version EN 12195-1:2010 + AC:2014 | 2021-01 |
| DIN EN 12312-16 | Aircraft ground support equipment – Specific requirement – Part 16: Air start equipment; German version EN 12312-16:2005+A1:2009 | 2009-08 |
| DIN EN 12549 | Acoustic – Noise test code for fastener driving tool – Engineering method; German version EN 12549:1999+A1:2008 | 2008-12 |
| DIN EN 12583 | Gas Infrastructure – Compressor station – Functional requirements; German and English version prEN 12583:2021 | 2021-03 Draft |
| DIN EN 13001-2 | Crane safety – General design – Part 2: Load actions; German version EN 13001-2:2021 | 2021-11 |
| DIN EN 13155 | Crane – Safety – Non-fixed load lifting attachments; German version EN 13155:2020 | 2022-03 |
| DIN EN 13155 | Crane – Safety – Non-fixed load lifting attachments; German version EN 13155:2020 | 2022-03 |
| DIN EN 13445-1 | Unfired pressure vessel – Part 1: General; German version EN 13445-1:2021 | 2021-12 |
| DIN EN 13445-2 | Unfired pressure vessel – Part 2: Materials; German version EN 13445-2:2021 | 2021-12 |
| DIN EN 13445-3 | Unfired pressure vessel – Part 3: Design; German version EN 13445-3:2021, only on CD-ROM | 2021-12 |
| DIN EN 13445-4 | Unfired pressure vessel – Part 4: Fabrication; German version EN 13445-4:2021 | 2021-12 |
| DIN EN 13445-5 | Unfired pressure vessel – Part 5: Inspection and testing; German version EN 13445-5:2021 | 2021-12 |
| DIN EN 13445-6 | Unfired pressure vessel – Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron; German version EN 13445-6:2021 | 2021-12 |
| DIN EN 13445-8 | Unfired pressure vessel – Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys; German version EN 13445-8:2021 | 2021-12 |
| DIN EN 13445-10 | Unfired pressure vessel – Part 10: Additional requirements for pressure vessels of nickel and nickel alloys; German version EN 13445-10:2021 | 2021-12 |
| DIN EN 13480-1/A1 | Metallic industrial piping – Part 1: General; German version EN 13480-1:2017/ A1:2019 | 2019-07 |
| DIN EN 14238 | Crane – Manually controlled load manipulating devices; German version EN 14238:2004+A1:2009 | 2010-02 |
| DIN EN 14382 | Gas safety shut-off devices for inlet pressure up to 10 MPa (100 bar); German and English version EN 14382:2019 | 2019-11 |

| Document number | Title | Issue date |
|---|---|---|
| DIN EN 50347 | General purpose three-phase induction motors having standard dimensions and output – Frame numbers 56 to 315 and flange numbers 65 to 740; German version EN 50347:2001 | 2003-09 |
| DIN EN 50522, VDE 0101-2 | Earthing of power installations exceeding 1 kV a.c.; German and English version prEN 50522:2021 | 2022-01 |
| DIN EN 50524, VDE 0126-13 | Data sheet for photovoltaic inverters; German and English version prEN 50524:2019 | 2020-08 Draft |
| DIN EN 55011, VDE 0875-11 | Industrial, scientific and medical equipment – Radio-frequency disturbance characteristic – Limits and methods of measurement (CISPR 11:2015, modified + A1:2016 + A2:2019); German version EN 55011:2016 + A1:2017 + A11:2020 + A2:2021 | 2022-05 |
| DIN EN 60034-1, VDE 0530-1 | Rotating electrical machine – Part 1: Rating and performance (IEC 2/1768/CD:2014) | 2015-02 Draft |
| DIN EN 60034-1, VDE 0530-1 | Rotating electrical machine – Part 1: Rating and performance (IEC 2/1768/CD:2014) | 2015-02 Draft |
| DIN EN 60034-2-1, VDE 0530-2-1 | Rotating electrical machine – Part 2-1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles) (IEC 60034-2-1:2014); German version EN 60034-2-1:2014 | 2015-02 |
| DIN EN 60034-7, VDE 0530-7 | Rotating electrical machine – Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code) (IEC 2/1976/CDV:2020); German and English version prEN IEC 60034-7:2020 | 2021-04 Draft |
| DIN EN 60034-8, VDE 0530-8 | Rotating electrical machine – Part 8: Terminal markings and direction of rotation (IEC 60034-8:2007 + A1:2014); German version EN 60034-8:2007 + A1:2014 | 2014-10 |
| DIN EN 60034-9, VDE 0530-9 | Rotating electrical machine – Part 9: Noise limits (IEC 2/1994/CD:2020); Text in German and English | 2021-04 Draft |
| DIN EN 60034-11, VDE 0530-11 | Rotating electrical machine – Part 11: Thermal protection (IEC 2/1979/CDV:2020); German and English version prEN IEC 60034-11:2020 | 2021-06 Draft |
| DIN EN 60034-12, VDE 0530-12 | Rotating electrical machine – Part 12: Starting performance of single-speed three-phase cage induction motors (IEC 60034-12:2016); German version EN 60034-12:2017 | 2017-12 |
| DIN EN 60034-30-1, VDE 0530-30-1 | Rotating electrical machine – Part 30-1: Efficiency classes of line operated AC motors (IE code) (IEC 60034-30-1:2014); German version EN 60034-30-1:2014 | 2014-12 |
| DIN EN 60038, VDE 0175-1 | CENELEC standard voltages (IEC 60038:2009, modified); German version EN 60038:2011 | 2012-04 |
| DIN EN 60079-1, VDE 0170-5 | Explosive atmosphere – Part 1: Equipment protection by flameproof enclosures “d” (IEC 60079-1:2014); German version EN 60079-1:2014 | 2015-04 |
| DIN EN 60079-1 Corrigendum 1:2019-01; VDE 0170-5 Corrigendum 1:2019-01 | Part 1: Equipment protection by flameproof enclosures „d” (IEC 60079-1:2014/COR1:2018); Deutsche Fassung EN 60079-1:2014/AC:2018-09 | 2019-01 |
| DIN EN 60079-7, VDE 0170-6 | Explosive atmosphere – Part 7: Equipment protection by increased safety “e” (IEC 60079-7:2015); German version EN 60079-7:2015 | 2016-08 |
| DIN EN 60079-7 Supplement 1, VDE 0170-6 Supplement 1 | Explosive atmosphere – Part 7: Equipment protection by increased safety “e”; Supplement 1: Interpretation Sheet 1 (IEC 60079-7:2015/ISH1:2016) | 2017-10 |
| DIN EN 60079-14, VDE 0165-1 | Explosive atmosphere – Part 14: Electrical installations design, selection and erection (IEC 31J/301/CD:2019); Text in German and English | 2021-05 Draft |

| Document number | Title | Issue date |
|---|---|---|
| DIN EN 60079-14 Ber. 1, VDE 0165-1 Ber. 1 | Explosive atmosphere – Part 14: Electrical installations design, selection and erection (IEC 60079-14:2013); German version EN 60079-14:2014, Corrigendum to DIN EN 60079-14 (VDE 0165-1):2014-10, (IEC 60079-14:2013/COR1:2016); German version EN 60079-14:2014/AC:2016 | 2016-06 |
| DIN EN 60079-14 Supplement 1, VDE 0165-1 Supplement 1 | Explosive atmosphere – Part 14: Electrical installations design, selection and erection; Supplement 1: Interpretation Sheet 1 (IEC 60079-14:2013/ISH1:2017) | 2017-10 |
| DIN EN 60079-31, VDE 0170-15-1 | Explosive atmosphere – Part 31: Equipment dust ignition protection by enclosure "t" (IEC 31/1248/CD:2016) | 2016-08 Draft |
| DIN EN 60079-31, VDE 0170-15-1 | Explosive atmosphere – Part 31: Equipment dust ignition protection by enclosure "t" (IEC 31/1248/CD:2016) | 2016-08 Draft |
| DIN EN 60204-1, | Safety of machinery – Electrical equipment of machine – Part 1: General requirements (IEC 60204-1:2016, modified); German version EN 60204-1:2018 | 2019-06 |
| DIN EN 60204-1/A1, VDE 0113-1/A1 | Safety of machinery – Electrical equipment of machine – Part 1: General requirements (IEC 44/873A/CD:2020); Text in German and English | 2021-01 Draft |
| DIN EN 60204-11, VDE 0113-11 | Safety of machinery – Electrical equipment of machine – Part 11: Requirements for equipment for voltages above 1 000 V AC or 1 500 V DC and not exceeding 36 kV (IEC 60204-11:2018); German version EN IEC 60204-11:2019 | 2019-09 |
| DIN EN 60204-32, VDE 0113-32 | Safety of machinery – Electrical equipment of machine – Part 32: Requirements for hoisting machines (IEC 44/862/CD:2019); Text in German and English | 2021-03 Draft |
| DIN EN 60529, VDE 0470-1 | Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013); German version EN 60529:1991 + A1:2000 + A2:2013 | 2014-09 |
| DIN EN 60529 Corrigendum 1, VDE 0470-1 Corrigendum 1 | Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013); German version EN 60529:1991 + A1:2000 + A2:2013, Corrigendum to DIN EN 60529 (VDE 0470-1):2014-09, (IEC 60529 Edition 2.2 Corrigendum 2:2015); German version EN 60529:1991/AC:2016-12 | 2017-02 |
| DIN EN 60529 Corrigendum 2, VDE 0470-1 Corrigendum 2 | Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989/A2:2013/COR1:2019); German version EN 60529:1991/A2:2013/AC:2019-02 | 2019-06 |
| DIN EN 61000-3-3, VDE 0838-3 | Electromagnetic compatibility (EMC) – Part 3-3: Limit – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013 + A1:2017); German version EN 61000-3-3:2013 + A1:2019 | 2020-07 |
| DIN EN 61000-3-3 Supplement 1, VDE 0838-3 | Electromagnetic compatibility (EMC) – Part 3-3: Limit – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection; Supplement 1: Information for the interpretation of DIN EN 61000-3-3 (VDE 0838-3) | 2021-07 |
| DIN EN 61000-3-3/A2; VDE 0838-3/A2 | Electromagnetic compatibility (EMC) – Part 3-3: Limit – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013/A2:2021); German version EN 61000-3-3:2013/A2:XXXX | 2021-10 Draft |
| DIN EN 61000-4-2, VDE 0847-4-2 | Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement technique – Electrostatic discharge immunity test (IEC 61000-4-2:2008); German version EN 61000-4-2:2009 | 2009-12 |
| DIN EN 61000-4-3, VDE 0847-4-3 | Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement technique – Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2020); German version EN IEC 61000-4-3:2020 | 2021-11 |

| Document number | Title | Issue date |
|---|---|---|
| DIN EN 61000-4-4, VDE 0847-4-4 | Electromagnetic compatibility (EMC) – Part 4-4:Testing and measurement technique – Electrical fast transient/burst immunity test (IEC 61000-4-4:2012); German version EN 61000-4-4:2012 | 2013-04 |
| DIN EN 61000-4-5, VDE 0847-4-5 | Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement technique – Surge immunity test (IEC 61000-4-5:2014 + A1:2017); German version EN 61000-4-5:2014 + A1:2017 | 2019-03 |
| DIN EN 61000-4-5, VDE 0847-4-5 Corrigendum 1 | Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement technique – Surge immunity test (IEC 61000-4-5:2014 + A1:2017); German version EN 61000-4-5:2014 + A1:2017; Corrigendum 1 | 2021-04 |
| DIN EN 61000-4-6, VDE 0847-4-6 | Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement technique – Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013); German version EN 61000-4-6:2014 | 2014-08 |
| DIN EN 61000-4-8, VDE 0847-4-8 | Electromagnetic compatibility (EMC) – Part 4-8: Testing and measurement technique – Power frequency magnetic field immunity test (IEC 61000-4-8:2009); German version EN 61000-4-8:2010 | 2010-11 |
| DIN EN 61000-6-3, VDE 0839-6-3 | Electromagnetic compatibility (EMC) – Part 6-3: Generic standard – Emission standard for equipment in residential environments (IEC 61000-6-3:2020); German version EN IEC 61000-6-3:2021 | 2022-06 |
| DIN EN 61000-6-3-100, VDE 0839-6-3-100 | Elektromagnetische Verträglichkeit (EMV) – Teil 6-3: Fachgrundnormen – Störaussendung von Geräten in Wohnbereichen (IEC 61000-6-3:2020); Deutsche Fassung EN IEC 61000-6-3:2021 | 2022-06 |
| DIN EN 61010-1, VDE 0411-1 | Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements (IEC 61010-1:2010 + COR:2011 + A1:2016, modified + A1:2016/COR1:2019); German version EN 61010-1:2010 + A1:2019 + A1:2019/AC:2019 | 2020-03 |
| DIN EN 61310-1, VDE 0113-101 | Safety of machinery – Indication, marking and actuation – Part 1: Requirements for visual, acoustic and tactile signals (IEC 61310-1:2007); German version EN 61310-1:2008 | 2008-09 |
| DIN EN 61310-2, VDE 0113-102 | Safety of machinery – Indication, marking and actuation – Part 2: Requirements for marking (IEC 61310-2:2007); German version EN 61310-2:2008 | 2008-09 |
| DIN EN 61310-3, VDE 0113-103 | Safety of machinery – Indication, marking and actuation – Part 3: Requirements for the location and operation of actuators (IEC 61310-3:2007); German version EN 61310-3:2008 | 2008-09 |
| DIN EN 61326-1, VDE 0843-20-1 | Electrical equipment for measurement, control and laboratory use – EMC requirement – Part 1: General requirements (IEC 65A/862/CD:2018); Text in German and English | 2018-09 Draft |
| DIN EN 61326-1, VDE 0843-20-1 | Electrical equipment for measurement, control and laboratory use – EMC requirement – Part 1: General requirements (IEC 65A/862/CD:2018); Text in German and English | 2018-09 Draft |
| DIN EN 61508-1, VDE 0803-1 | Functional safety of electrical/electronic/programmable electronic safety-related system – Part 1: General requirements (IEC 61508-1:2010); German version EN 61508-1:2010 | 2011-02 |
| DIN EN 61508-2, VDE 0803-2 | Functional safety of electrical/electronic/programmable electronic safety-related system – Part 2: Requirements for electrical/electronic/programmable electronic safety-related systems (IEC 61508-2:2010); German version EN 61508-2:2010 | 2011-02 |
| DIN EN 61508-3, VDE 0803-3 | Functional safety of electrical/electronic/programmable electronic safety-related system – Part 3: Software requirements (IEC 61508-3:2010); German version EN 61508-3:2010 | 2011-02 |
| DIN EN 61508-4, VDE 0803-4 | Functional safety of electrical/electronic/programmable electronic safety-related system – Part 4: Definitions and abbreviations (IEC 61508-4:2010); German version EN 61508-4:2010 | 2011-02 |

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|---|---|---|
| DIN EN 61508-5, VDE 0803-5 | Functional safety of electrical/electronic/programmable electronic safety-related system – Part 5: Examples of methods for the determination of safety integrity levels (IEC 61508-5:2010); German version EN 61508-5:2010 | 2011-02 |
| DIN EN 61508-6, VDE 0803-6 | Functional safety of electrical/electronic/programmable electronic safety-related system – Part 6: Guidelines on the application of IEC 61508-2 and IEC 61508-3 (IEC 61508-6:2010); German version EN 61508-6:2010 | 2011-02 |
| DIN EN 61508-7, VDE 0803-7 | Functional safety of electrical/electronic/programmable electronic safety-related system – Part 7: Overview of techniques and measures (IEC 61508-7:2010); German version EN 61508-7:2010 | 2011-02 |
| DIN EN 61511-1, VDE 0810-1 | Functional safety – Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming Requirements (IEC 61511-1:2016 + COR1:2016 + A1:2017); German version EN 61511-1:2017 + A1:2017 | 2019-02 |
| DIN EN 61511-2, VDE 0810-2 | Functional safety – Safety instrumented systems for the process industry sector – Part 2: Guidelines for the application of IEC 61511-1 (IEC 61511-2:2016); German version EN 61511-2:2017 | 2019-02 |
| DIN EN 61511-3, VDE 0810-3 | Functional safety – Safety instrumented systems for the process industry sector – Part 3: Guidance for the determination of the required safety integrity levels (IEC 61511-3:2016); German version EN 61511-3:2017 | 2019-02 |
| DIN EN 62061, VDE 0113-50 | Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems (IEC 44/788/CD:2017) | 2017-10 Draft |
| DIN EN 62061, VDE 0113-50 | Safety of machinery – Functional safety of safety-related electrical, electronic and programmable electronic control systems (IEC 44/788/CD:2017) | 2017-10 Draft |
| DIN EN 62841-1, VDE 0740-1 | Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements (IEC 62841-1:2014, modified + Cor. 1:2014 + Cor. 2:2015); German version EN 62841-1:2015 + AC:2015 | 2016-07 |
| DIN EN 62841-1 Corrigendum 1, VDE 0740-1 Corrigendum 1 | Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements (IEC 62841-1:2014, modified + Cor. 1:2014 + Cor. 2:2015); German version EN 62841-1:2015 + AC:2015; Corrigendum 1 | 2021-08 |
| DIN EN 62841-1/AB, VDE 0740-1/AB | Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety – Part 1: General requirements; German version EN 62841-1:2015/prAB:2020 | 2020-11 Draft |
| DIN CEN/TR 764-6, DIN SPEC 2928 | Pressure equipment – Part 6: Structure and content of operating instructions; German version CEN/TR 764-6:2012 | 2013-01 |

# DIN EN ISO standards

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|---|---|---|
| DIN EN ISO 286-1 | Geometrical product specifications (GPS) – ISO code system for tolerances on linear size – Part 1: Basis of tolerances, deviations and fits (ISO 286-1:2010 + Cor 1:2013); German version EN ISO 286-1:2010 + AC:2013 | 2019-09 |
| DIN EN ISO 286-2 | Geometrical product specifications (GPS) – ISO code system for tolerances on linear size – Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts (ISO 286-2:2010 + Cor 1:2013); German version EN ISO 286-2:2010 + AC:2013 | 2019-09 |
| DIN EN ISO 472 | Plastic – Vocabulary (ISO 472:2013); Trilingual version EN ISO 472:2013 | 2013-06 |
| DIN EN ISO 472/ A1:2019-03 | Plastic – Vocabulary – Amendment 1: Additional items (ISO 472:2013/Amd.1:2018); Trilingual version EN ISO 472:2013/A1:2018 | 2019-03 |
| DIN EN ISO 2151 | Acoustic – Noise test code for compressors and vacuum pump – Engineering method (grade 2) (ISO 2151:2004); German version EN ISO 2151:2008 | 2009-01 |
| DIN EN ISO 2398 | Rubber hoses, textile-reinforced, for compressed air – Specification (ISO 2398:2016), German version EN ISO 2398:2016 | 2017-03 |
| DIN EN ISO 3266 | Forged steel eyebolts grade 4 for general lifting purposes (ISO 3266:2010 + Amd 1:2015); German version EN ISO 3266:2010 + A1:2015 | 2016-05 |
| DIN EN ISO 3457 | Earth-moving machinery – Guard – Definitions and requirements (ISO 3457:2003); German version EN ISO 3457:2008 | 2009-06 |
| DIN EN ISO 3740 | Acoustic – Determination of sound power levels of noise source – Guidelines for the use of basic standards (ISO 3740:2019); German version EN ISO 3740:2019 | 2019-08 |
| DIN EN ISO 3741 | Acoustic – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Precision methods for reverberation test rooms (ISO 3741:2010); German version EN ISO 3741:2010 | 2011-01 |
| DIN EN ISO 3744 | Acoustic – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Engineering methods for an essentially free field over a reflecting plane (ISO 3744:2010); German version EN ISO 3744:2010 | 2011-02 |
| DIN EN ISO 3745 | Acoustic – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Precision methods for anechoic rooms and hemi-anechoic rooms (ISO 3745:2012 + Amd 1:2017); German version EN ISO 3745:2012 + A1:2017 | 2017-10 |
| DIN EN ISO 3746 | Acoustic – Determination of sound power levels and sound energy levels of noise sources using sound pressure – Survey method using an enveloping measurement surface over a reflecting plane (ISO 3746:2010); German version EN ISO 3746:2010 | 2011-03 |
| DIN EN ISO 4126-1 | Safety devices for protection against excessive pressure – Part 1: Safety valves (ISO 4126-1:2013); German version EN ISO 4126-1:2013/A2:2019 | 2019-08 |
| DIN EN ISO 4126-2 | Safety devices for protection against excessive pressure – Part 2: Bursting disc safety devices (ISO 4126-2:2018); German version EN ISO 4126-2:2019 | 2019-08 |
| DIN EN ISO 4126-3 | Safety devices for protection against excessive pressure – Part 3: Safety valves and bursting disc safety devices in combination (ISO 4126-3:2020); German version EN ISO 4126-3:2020 | 2021-03 |
| DIN EN ISO 4126-6 | Safety devices for protection against excessive pressure – Part 6: Application, selection and installation of bursting disc safety devices (ISO 4126-6:2014); German version EN ISO 4126-6:2014 | 2014-10 |
| DIN EN ISO 4413 | Hydraulic fluid power – General rules and safety requirements for systems and their components (ISO 4413:2010); German version EN ISO 4413:2010 | 2011-04 |
| DIN EN ISO 4414 | Pneumatic fluid power – General rules and safety requirements for systems and their components (ISO 4414:2010); German version EN ISO 4414:2010 | 2011-04 |
| DIN EN ISO 4871 | Acoustic – Declaration and verification of noise emission values of machinery and equipment (ISO 4871:1996); German version EN ISO 4871:2009 | 2009-11 |

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|---|---|---|
| DIN EN ISO 5167-1 | Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 1: General principles and requirements (ISO/DIS 5167-1:2021); German and English version prEN ISO 5167-1:2021 | 2021-09 Draft |
| DIN EN ISO 5167-2 | Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 2: Orifice plates (ISO/DIS 5167-2:2021); German and English version prEN ISO 5167-2:2021 | 2021-09 Draft |
| DIN EN ISO 5167-3 | Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 3: Nozzles and Venturi nozzles (ISO/FDIS 5167-3:2022); German and English version prEN ISO 5167-3:2022 | 2022-08 Draft |
| DIN EN ISO 5167-4 | Flow measurement of fluids with flow restrictors in full flow circular cross-section pipes – Part 4: Venturi tubes (ISO/DIS 5167-4:2021); German and English version prEN ISO 5167-4:2021 | 2021-09 Draft |
| DIN EN ISO 5459 | Geometrical product specifications (GPS) – Geometrical tolerancing – Datums and datum systems (ISO 5459:2011); German version EN ISO 5459:2011 | 2013-05 |
| DIN EN ISO 7369 | Pipework – Metal hoses and hose assemblie – Vocabulary (ISO 7369:2020); German version EN ISO 7369:2020 | 2020-09 |
| DIN EN ISO 7396-1 | Medical gas pipeline system – Part 1: Pipeline systems for compressed medical gases and vacuum (ISO 7396-1:2016 + Amd 1:2017); German version EN ISO 7396-1:2016 + A1:2019 | 2019-06 |
| DIN EN ISO 7731 | Ergonomic – Danger signals for public and work area – Auditory danger signals (ISO 7731:2003); German version EN ISO 7731:2008 | 2008-12 |
| DIN EN ISO 9300 | Measurement of gas flow by means of critical flow nozzles (ISO/DIS 9300:2021); German and English version prEN ISO 9300:2021 | 2021-09 Draft |
| DIN EN ISO 9300 | Measurement of gas flow by means of critical flow Venturi nozzles (ISO 9300:2005); German version EN ISO 9300:2005 | 2005-11 |
| DIN EN ISO 9606-1 | Qualification testing of welder – Fusion welding – Part 1: Steels (ISO 9606-1:2012 including Cor 1:2012 and Cor 2:2013); German version EN ISO 9606-1:2017 | 2017-12 |
| DIN EN ISO 10438-1 | Petroleum, petrochemical and natural gas industrie – Lubrication, shaft-sealing and control-oil systems and auxiliarie – Part 1: General requirements (ISO 10438-1:2007); English version EN ISO 10438-1:2007, with CD-ROM | 2010-08 |
| DIN EN ISO 10439-1 | Petroleum, petrochemical and natural gas industrie – Axial and centrifugal compressors and expander-compressor – Part 1: General requirements (ISO 10439-1:2015); English version EN ISO 10439-1:2015, only on CD-ROM | 2015-05 |
| DIN EN ISO 10439-2 | Petroleum, petrochemical and natural gas industrie – Axial and centrifugal compressors and expander-compressor – Part 2: Non-integrally geared centrifugal and axial compressors (ISO 10439-2:2015); English version EN ISO 10439-2:2015 | 2015-05 |
| DIN EN ISO 10439-3 | Petroleum, petrochemical and natural gas industrie – Axial and centrifugal compressors and expander-compressor – Part 3: Integrally geared centrifugal compressors (ISO 10439-3:2015); English version EN ISO 10439-3:2015 | 2015-05 |
| DIN EN ISO 10439-4 | Petroleum, petrochemical and natural gas industrie – Axial and centrifugal compressors and expander-compressor – Part 4: Expander-compressors (ISO 10439-4:2015); English version EN ISO 10439-4:2015 | 2015-05 |
| DIN EN ISO 10440-1 | Petroleum, petrochemical and natural gas industrie – Rotary-type positive-displacement compressor – Part 1: Process compressors (ISO 10440-1:2007); English version EN ISO 10440-1:2007 | 2008-09 |
| DIN EN ISO 10440-2 | Petroleum and natural gas industrie – Rotary type positive-displacement compressor – Part 2: Packaged air compressors (oil-free) (ISO 10440-2:2001); German and English version EN ISO 10440-2:2001 | 2003-02 |
| DIN EN ISO 10442 | Petroleum, chemical and gas service industrie – Packaged, integrally geared centrifugal air compressors (ISO 10442:2002); English version EN ISO 10442:2002 | 2005-07 |
| DIN EN ISO 11011 | Compressed air – Energy efficiency – Assessment (ISO 11011:2013); German version EN ISO 11011:2015 | 2015-08 |

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|---|---|---|
| DIN EN ISO 11148-1 | Hand-held non-electric power tool – Safety requirement – Part 1: Assembly power tools for non-threaded mechanical fasteners (ISO 11148-1:2011); German version EN ISO 11148-1:2011 | 2012-06 |
| DIN EN ISO 11148-2 | Hand-held non-electric power tool – Safety requirement – Part 2: Cutting-off and crimping power tools (ISO 11148-2:2011); German version EN ISO 11148-2:2011 | 2012-06 |
| DIN EN ISO 11148-3 | Hand-held non-electric power tool – Safety requirement – Part 3: Drills and tappers (ISO 11148-3:2012); German version EN ISO 11148-3:2012 | 2013-05 |
| DIN EN ISO 11148-4 | Hand-held non-electric power tool – Safety requirement – Part 4: Non-rotary percussive power tools (ISO 11148-4:2012); German version EN ISO 11148-4:2012 | 2013-05 |
| DIN EN ISO 11148-5 | Hand-held non-electric power tool – Safety requirement – Part 5: Rotary percussive drills (ISO 11148-5:2011); German version EN ISO 11148-5:2011 | 2012-06 |
| DIN EN ISO 11148-6 | Hand-held non-electric power tool – Safety requirement – Part 6: Assembly power tools for threaded fasteners (ISO 11148-6:2012); German version EN ISO 11148-6:2012 | 2013-05 |
| DIN EN ISO 11148-7 | Hand-held non-electric power tool – Safety requirement – Part 7: Grinders (ISO 11148-7:2012); German version EN ISO 11148-7:2012 | 2013-01 |
| DIN EN ISO 11148-8 | Hand-held non-electric power tool – Safety requirement – Part 8: Sanders and polishers (ISO 11148-8:2011); German version EN ISO 11148-8:2011 | 2012-06 |
| DIN EN ISO 11148-9 | Hand-held non-electric power tool – Safety requirement – Part 9: Die grinders (ISO 11148-9:2011); German version EN ISO 11148-9:2011 | 2012-06 |
| DIN EN ISO 11148-10 | Hand-held non-electric power tool – Safety requirement – Part 10: Compression power tools (ISO 11148-10:2011); German version EN ISO 11148-10:2011 | 2012-06 |
| DIN EN ISO 11148-11 | Hand-held non-electric power tool – Safety requirement – Part 11: Nibblers and shears (ISO 11148-11:2011); German version EN ISO 11148-11:2011 | 2012-06 |
| DIN EN ISO 11148-12 | Hand-held non-electric power tool – Safety requirement – Part 12: Circular, oscillating and reciprocating saws (ISO 11148-12:2012); German version EN ISO 11148-12:2012 | 2013-05 |
| DIN EN ISO 11148-13 | Hand-held non-electric power tool – Safety requirement – Part 13: Fastener driving tools (ISO 11148-13:2017); German version EN ISO 11148-13:2018 | 2019-07 |
| DIN EN ISO 11200 | Acoustic – Noise emitted by machinery and equipment – Guidelines for the use of basic standards for the determination of emission sound pressure levels at a work station and at other specified positions (ISO 11200:2014 + Amd. 1:2018); German version EN ISO 11200:2014 + A1:2020 | 2020-10 |
| DIN EN ISO 11201 | Acoustic – Noise emitted by machinery and equipment – Determination of emission sound pressure levels at a work station and at other specified positions in an essentially free field over a reflecting plane with negligible environmental corrections (ISO 11201:2010); German version EN ISO 11201:2010 | 2010-10 |
| DIN EN ISO 11202 | Acoustic – Noise emitted by machinery and equipment – Determination of emission sound pressure levels at a work station and at other specified positions applying approximate environmental corrections (ISO 11202:2010); German version EN ISO 11202:2010 | 2010-10 |
| DIN EN ISO 11203 | Acoustic – Noise emitted by machinery and equipment – Determination of emission sound pressure levels at a work station and at other specified positions from the sound power level (ISO 11203:1995); German version EN ISO 11203:2009 | 2010-01 |
| DIN EN ISO 11204 | Acoustic – Noise emitted by machinery and equipment – Determination of emission sound pressure levels at a work station and at other specified positions applying accurate environmental corrections (ISO 11204:2010); German version EN ISO 11204:2010 | 2019-10 |
| DIN EN ISO 11688-1 | Acoustic – Recommended practice for the design of low-noise machinery and equipment – Part 1: Planning (ISO/TR 11688-1:1995); German version EN ISO 11688-1:2009 | 2009-11 |
| DIN EN ISO 12100 | Safety of machinery – General principles for design – Risk assessment and risk reduction (ISO 12100:2010); German version EN ISO 12100:2010 | 2011-03 |

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| DIN EN ISO 12100 Corr. 1 | Safety of machinery – General principles for design – Risk assessment and risk reduction (ISO 12100:2010); German version EN ISO 12100:2010, Corrigendum to DIN EN ISO 12100:2011-03 | 2013-08 |
| DIN EN ISO 13631 | Petroleum and natural gas industrie – Packaged reciprocating gas compressors (ISO 13631:2002); German and English version EN ISO 13631:2002 | 2003-02 |
| DIN EN ISO 13732-1 | Ergonomics of the thermal environment – Methods for the assessment of human responses to contact with surface – Part 1: Hot surfaces (ISO 13732-1:2006); German version EN ISO 13732-1:2008 | 2008-12 |
| DIN EN ISO 13732-3 | Ergonomics of the thermal environment – Methods for the assessment of human responses to contact with surface – Part 3: Cold surfaces (ISO 13732-3:2005), German version EN ISO 13732-3:2008 | 2008-12 |
| DIN EN ISO 13849-1 | Safety of machinery – Safety-related parts of control system – Part 1: General principles for design (ISO/DIS 13849-1.2:2021); German and English version prEN ISO 13849-1:2021 | 2021-08 Draft |
| DIN EN ISO 13849-2 | Safety of machinery – Safety-related parts of control system – Part 2: Validation (ISO 13849-2:2012); German version EN ISO 13849-2:2012 | 2013-02 |
| DIN EN ISO 13850 | Safety of machinery – Emergency stop function – Principles for design (ISO 13850:2015); German version EN ISO 13850:2015 | 2016-05 |
| DIN EN ISO 13854 | Safety of machinery – Minimum gaps to avoid crushing of parts of the human body (ISO 13854:2017); German version EN ISO 13854:2019 | 2020-01 |
| DIN EN ISO 13857 | Safety of machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857:2019); German version EN ISO 13857:2019 | 2020-04 |
| DIN EN ISO 14118 | Safety of machinery – Prevention of unexpected start-up (ISO 14118:2017); German version EN ISO 14118:2018 | 2018-07 |
| DIN EN ISO 14119 | Safety of machinery – Interlocking devices associated with guard – Principles for design and selection (ISO/DIS 14119.2:2022); German and English version prEN ISO 14119:2022 | 2022-04 Draft |
| DIN EN ISO 14120 | Safety of machinery – Guard – General requirements for the design and construction of fixed and movable guards (ISO 14120:2015); German version EN ISO 14120:2015 | 2016-05 |
| DIN EN ISO 14122-1 | Safety of machinery – Permanent means of access to machinery – Part 1: Choice of fixed means and general requirements of access (ISO 14122-1:2016); German version EN ISO 14122-1:2016 | 2016-10 |
| DIN EN ISO 14122-2 | Safety of machinery – Permanent means of access to machinery – Part 2: Working platforms and walkways (ISO 14122-2:2016); German version EN ISO 14122-2:2016 | 2016-10 |
| DIN EN ISO 14122-3 | Safety of machinery – Permanent means of access to machinery – Part 3: Stairs, stepladders and guard-rails (ISO 14122-3:2016); German version EN ISO 14122-3:2016 | 2016-10 |
| DIN EN ISO 14122-4 | Safety of machinery – Permanent means of access to machinery – Part 4: Fixed ladders (ISO 14122-4:2016); German version EN ISO 14122-4:2016 | 2016-10 |
| DIN EN ISO 14123-1 | Safety of machinery – Reduction of risks to health resulting from hazardous substances emitted by machinery – Part 1: Principles and specifications for machinery manufacturers (ISO 14123-1:2015); German version EN ISO 14123-1:2015 | 2016-03 |
| DIN EN ISO 14123-2 | Safety of machinery – Reduction of risks to health resulting from hazardous substances emitted by machinery – Part 2: Methodology leading to verification procedures (ISO 14123-2:2015); German version EN ISO 14123-2:2015 | 2016-05 |
| DIN EN ISO 14163 | Acoustic – Guidelines for noise control by silencers (ISO 14163:1998); German version EN ISO 14163:1998 | 1999-05 |
| DIN EN ISO 14238 | Soil quality – Biological method – Determination of nitrogen mineralization and nitrification in soils and the influence of chemicals on these processes (ISO 14238:2012); German version EN ISO 14238:2013 | 2014-03 |

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|---|---|---|
| DIN EN ISO 14691 | Petroleum, petrochemical and natural gas industrie – Flexible couplings for mechanical power transmission – General-purpose applications (ISO 14691:2008); English version EN ISO 14691:2008 | 2009-05 |
| DIN EN ISO 15667 | Acoustic – Guidelines for noise control by enclosures and cabins (ISO 15667:2000); German version EN ISO 15667:2000 | 2001-07 |
| DIN EN ISO 15744 | Hand-held non-electric power tool – Noise measurement code – Engineering method (grade 2) (ISO 15744:2002); German version EN ISO 15744:2008 | 2008-11 |
| DIN EN ISO 16852 | Flame arrester – Performance requirements, test methods and limits for use (ISO 16852:2016); German version EN ISO 16852:2016 | 2017-04 |
| DIN EN ISO/ IEC 17000 | Conformity assessment – Vocabulary and general principles (ISO/IEC 17000:2020); Trilingual version EN ISO/IEC 17000:2020 | 2020-09 |
| DIN EN ISO 19353 | Safety of machinery – Fire prevention and fire protection (ISO 19353:2019); German version EN ISO 19353:2019 | 2019-06 |
| DIN EN ISO 20643 | Mechanical vibration – Hand-held and hand-guided machinery – Principles for evaluation of vibration emission (ISO 20643:2005 + Amd. 1:2012); German version EN ISO 20643:2008 + A1:2012 | 2012-10 |
| DIN EN ISO 21457 | Petroleum, petrochemical and natural gas industrie – Materials selection and corrosion control for oil and gas production systems (ISO 21457:2010); German version EN ISO 21457:2010 | 2010-12 |
| DIN EN ISO 28927-1 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 1: Angle and vertical grinders (ISO 28927-1:2019); German version EN ISO 28927-1:2019 | 2020-04 |
| DIN EN ISO 28927-2 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 2: Wrenches, nutrunners and screwdrivers (ISO 28927-2:2009 + Amd 1:2017); German version EN ISO 28927-2:2009 + A1:2017 | 2017-11 |
| DIN EN ISO 28927-3 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 3: Polishers and rotary, orbital and random orbital sanders (ISO 28927-3:2009); German version EN ISO 28927-3:2009 | 2010-05 |
| DIN EN ISO 28927-4 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 4: Straight grinders (ISO 28927-4:2010 + Amd 1:2017); German version EN ISO 28927-4:2010 + A1:2018 | 2019-04 |
| DIN EN ISO 28927-5 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 5: Drills and impact drills (ISO 28927-5:2009 + Amd 1:2015); German version EN ISO 28927-5:2009 + A1:2015 | 2015-12 |
| DIN EN ISO 28927-6 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 6: Rammers (ISO 28927-6:2009); German version EN ISO 28927-6:2009 | 2010-05 |
| DIN EN ISO 28927-7 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 7: Nibblers and shears (ISO 28927-7:2009); German version EN ISO 28927-7:2009 | 2010-05 |
| DIN EN ISO 28927-8 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 8: Saws, polishing and filing machines with reciprocating action and small saws with oscillating or rotating action (ISO 28927-8:2009 + Amd.1:2015 + Amd.2:2019); German version EN ISO 28927-8:2009 + A1:2015 + A2:2019 | 2019-09 |
| DIN EN ISO 28927-9 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 9: Scaling hammers and needle scalers (ISO 28927-9:2009); German version EN ISO 28927-9:2009 | 2010-05 |
| DIN EN ISO 28927-10 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 10: Percussive drills, hammers and breakers (ISO 28927-10:2011); German version EN ISO 28927-10:2011 | 2011-07 |
| DIN EN ISO 28927-11 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 11: Stone hammers (ISO 28927-11:2011); German version EN ISO 28927-11:2011 | 2011-05 |

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|---|---|---|
| DIN EN ISO 28927-12 | Hand-held portable power tool – Test methods for evaluation of vibration emission – Part 12: Die grinders (ISO 28927-12:2012); German version EN ISO 28927-12:2012 | 2013-02 |
| DIN EN ISO 50001 | Energy management system – Requirements with guidance for use (ISO 50001:2018); German version EN ISO 50001:2018 | 2018-12 |
| DIN EN ISO 80000-1 | Quantities and unit – Part 1: General (ISO/DIS 80000-1:2022); German and English version prEN ISO 80000-1:2022 | 2022-03 Draft |
| DIN EN ISO 80079-36 | Explosive atmosphere – Part 36: Non-electrical equipment for explosive atmosphere – Basic method and requirements (ISO 80079-36:2016); German version EN ISO 80079-36:2016 | 2016-12 |

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|---|---|---|
| DIN ISO 3567 | Vacuum gauge – Calibration by direct comparison with a reference gauge (ISO 3567:2011) | 2015-05 |
| DIN ISO 3864-1 | Graphical symbol – Safety colours and safety sign – Part 1: Design principles for safety signs and safety markings (ISO 3864-1:2011) | 2012-06 |
| DIN ISO 7000 | Graphical symbols for use on equipment – Index and synopsis (ISO 7000:2004 + ISO 7000 Database:2008 up to ISO 7000-2750) | 2008-12 |
| DIN ISO 7919-3 | Mechanical vibration – Evaluation of machine vibration by measurements on rotating shaft – Part 3: Coupled industrial machines (ISO 7919-3:2009 + Amd.1:2017) | 2018-01 |
| DIN ISO 10816 Supplement 1 | Mechanical vibration – Evaluation of machine vibration by measurements on non-rotating part – Supplement 1: Methodology for selecting machinery vibration standards, including the shaft vibration (ISO/TR 19201:2013) | 2013-12 |
| DIN ISO 10816-3 | Mechanical vibration – Evaluation of machine vibration by measurements on non-rotating part – Part 3: Industrial machines with nominal power above 15 kW and nominal speeds between 120 r/min and 15000 r/min when measured in situ (ISO 10816-3:2009 + Amd.1:2017) | 2018-01 |
| DIN ISO 10816-6 | Mechanical vibration – Evaluation of machine vibration by measurements on non-rotating part – Part 6: Reciprocating machines with power ratings above 100 kW (ISO 10816-6:1995 + Amd.1:2015) | 2015-07 |
| DIN ISO 20816-1 | Mechanical vibration – Measurement and evaluation of machine vibration – Part 1: General guidelines (ISO 20816-1:2016) | 2017-03 |
| DIN ISO 20816-2 | Mechanical vibration – Measurement and evaluation of machine vibration – Part 2: Land-based gas turbines, steam turbines and generators in excess of 40 MW, with fluid-film bearings and rated speeds of 1500 r/min, 1800 r/min, 3000 r/min and 3600 r/min (ISO 20816-2:2017) | 2018-01 |
| DIN ISO 21360-1 | Vacuum technology – Standard methods for measuring vacuum-pump performance – Part 1: General description (ISO 21360-1:2012) | 2016-09 |
| DIN CEN ISO/ TR 22100-1 | Safety of machinery – Relationship with ISO 12100 – Part 1: How ISO 12100 relates to type-B and type-C standards (ISO/TR 22100-1:2021); German version CEN ISO/ TR 22100-1:2021 | 2021-09 |
| DIN ISO/ TR 22100-2, DIN SPEC 33887 | Safety of machinery – Relationship with ISO 12100 – Part 2: How ISO 12100 relates to ISO 13849-1 (ISO/TR 22100-2:2013) | 2014-09 |

# DIN EN IEC Standards

| Document number | Title | Issue date |
|---|---|---|
| DIN EN IEC 60034-5:2021-05; VDE 0530-5 | Rotating electrical machine – Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code) – Classification (IEC 60034-5:2020); German version EN IEC 60034-5:2020 | 2021-05 |
| DIN EN IEC 60034-7:2021-04; VDE 0530-7 | Rotating electrical machine – Part 7: Classification of types of construction, mounting arrangements and terminal box position (IM Code) (IEC 2/1976/CDV:2020); German and English version prEN IEC 60034-7:2020 | 2021-04 Draft |
| DIN EN IEC 60034-9:2021-04; VDE 0530-9 | Rotating electrical machine – Part 9: Noise limits (IEC 2/1994/CD:2020); Text in German and English | 2021-04 Draft |
| DIN EN IEC 60034-11:2021-06, VDE 0530-11 | Rotating electrical machine – Part 11: Thermal protection (IEC 2/1979/CDV:2020); German and English version prEN IEC 60034-11:2020 | 2021-06 Draft |
| DIN EN IEC 60034-14:2019-04, VDE 0530-14 | Rotating electrical machine – Part 14: Mechanical vibration of certain machines with shaft heights 56 mm and higher – Measurement, evaluation and limits of vibration severity (IEC 60034-14:2018); German version EN IEC 60034-14:2018 | 2019-04 |
| DIN EN IEC 60079-0:2019-09; VDE 0170-1 | Potentially explosive atmospheres – Part 0: Equipment – General requirements (IEC 60079-0:2017); German version EN IEC 60079-0:2018. | 2019-09 |
| DIN EN IEC 60079-0 Corrigendum 1:2021-04; VDE 0170-1 Corrigendum 1 | Explosive atmosphere – Part 0: Equipment – General requirements (IEC 60079-0:2017/COR1:2020); German version EN IEC 60079-0:2018/AC:2020-02 | 2021-04 |
| DIN EN IEC 60079-14, VDE 0165-1 | Explosive atmosphere – Part 14: Electrical installations design, selection and erection (IEC 31J/301/CD:2019); Text in German and English | 2021-05 Draft |
| DIN EN IEC 60079-15:2020-03; VDE 0170-16 | Explosive atmosphere – Part 15: Equipment protection by type of protection “n” (IEC 60079-15:2017); German version EN IEC 60079-15:2019 | 2020-03 |
| DIN EN IEC 60204-32, VDE 0113-32 | Safety of machinery – Electrical equipment of machine – Part 32: Requirements for hoisting machines (IEC 44/862/CD:2019); Text in German and English | 2021-03 Draft |
| DIN EN IEC 61000-3-2, VDE 0838-2 | Electromagnetic compatibility (EMC) – Part 3-2: Limit – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2018); German version EN IEC 61000-3-2:2019 | 2019-12 |
| DIN EN IEC 61000-4-3, VDE 0847-4-3 | Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement technique – Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2020); German version EN IEC 61000-4-3:2020 | 2021-11 |
| DIN EN IEC 61000-4-11, VDE 0847-4-11 | Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement technique – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase (IEC 61000-4-11:2020 + COR1:2020); German version EN IEC 61000-4-11:2020 + AC:2020 | 2021-10 |
| DIN EN IEC 61000-6-1, VDE 0839-6-1 | Electromagnetic compatibility (EMC) – Part 6-1: Generic standard – Immunity standard for residential, commercial and light-industrial environments (IEC 61000-6-1:2016); German version EN IEC 61000-6-1:2019 | 2019-11 |
| DIN EN IEC 61000-6-2, VDE 0839-6-2 | Electromagnetic compatibility (EMC) – Part 6-2: Generic standard – Immunity standard for industrial environments (IEC 61000-6-2:2016); German version EN IEC 61000-6-2:2019 | 2019-11 |
| DIN EN IEC 61000-6-4, VDE 0839-6-4 | Electromagnetic compatibility (EMC) – Part 6-4: Generic standard – Emission standard for industrial environments (IEC 61000-6-4:2018); German version EN IEC 61000-6-4:2019 | 2020-09 |

# DIN IEC standards

| Document number | Title | Issue date |
|---|---|---|
| DIN IEC/TS 60034-30-2, VDE 0530-30-2 | Rotating electrical machine – Part 30-2: Efficiency classes of variable speed AC motors (IE-code) (IEC/TS 60034-30-2:2016) | 2019-02 |
| DIN IEC 60072-2 | Dimensions and output series for rotating electrical machine – Part 2: Frame numbers 355 to 1000 and flange number 1180 to 2360 (IEC 60072-2:1990) | 2006-03 |

# VDI guidelines

| Document number | Title | Issue date |
|---|---|---|
| VDI 2045 Sheet 1 | Acceptance and performance tests on turbo compressors and displacement compressors; test procedure and comparison with guaranteed values | 1993-08 |
| VDI 2045 Sheet 2 | Acceptance and performance tests on turbo compressors and displacement compressors; theory and examples | 1993-08 |
| VDI 2057 Sheet 1 | Human exposure to mechanical vibration – Whole-body vibration | 2017-08 |
| VDI 2057 Sheet 1 Ber. | Human exposure to mechanical vibration – Whole-body vibration – Corrigendum concerning standard VDI 2057 Part 1:2017-08 | 2017-10 |
| VDI 2057 Sheet 2 | Human exposure to mechanical vibration – Hand-arm vibration | 2016-03 |
| VDI 2057 Sheet 3 | Human exposure to mechanical vibration – Whole-body vibration at workplaces in buildings | 2017-03 |
| VDI 3731 Sheet 1 | Characteristic noise emission values of technical sound sources; compressors | 1982-12 |
| VDI 3836 | Measurement and evaluation of mechanical vibration of screw-type compressors and Root blower – Addition to DIN ISO 10816-3 | 2012-02 |
| VDI 3838 | Measurement and evaluation of mechanical vibration of reciprocating piston engines and piston compressors with power ratings above 100 kW – Addition to DIN ISO 10816-6 | 2004-05 |
| VDI 3839 Sheet 1 | Instructions on measuring and interpreting the vibrations of machine – General principles | 2001-03 |
| VDI 3839 Sheet 2 | Instructions on measuring and interpreting the vibrations of machine – Vibration patterns for excitation arising from unbalance, incorrect assembly, bearing faults and damage to rotating components | 2013-01 |
| VDI 3839 Sheet 4 | Instructions on measuring and interpreting the vibrations of machine – Typical vibration patterns with fans and blowers for gases | 2010-06 |
| VDI 3839 Sheet 4 Corr. | Instructions on measuring and interpreting the vibrations of machine – Typical vibration patterns with fans and blowers for gases, Corrigendum concerning guideline VDI 3839 Part 4:2010-06 | 2011-01 |
| VDI 3839 Sheet 5 | Instructions on measuring and interpreting the vibration of machine – Typical vibration patterns with electrical machines | 2001-09 |
| VDI 3839 Sheet 6 | Instructions on measuring and interpreting the vibration of machine – Typical vibration patterns with machine sets in hydraulic power stations | 2007-10 |
| VDI 3839 Sheet 7 | Instructions on measuring and interpreting the vibration of machine – Typical vibration patterns with centrifugal pumps | 2012-05 |
| VDI 3839 Sheet 8 | Instructions on measuring and interpreting the vibrations of machine – Typical vibration patterns with reciprocating machines | 2004-06 |

# VDMA Specifications

| Document number | Title | Issue date |
|---|---|---|
| VDMA 3111 | Compressed-air containers – Main dimensions and arrangement of inspection openings | 1978-12 |
| VDMA 4315-1 | Turbomachinery and generators – Application of the principles of functional safety – Part 1: Methods for determination of the necessary risk reduction | 2013-02 |
| VDMA 4315-7 | Turbomachinery and generators – Application of the principles of functional safety – Part 7: Risk assessment compressor train | 2013-02 |
| VDMA 4362 | Small piston compressors – Determining the volume flow (delivery quantity) | 1978-12 |
| VDMA 4363 | Ventilation of operating rooms of air-cooled compressors – Guidelines | 1978-12 |
| VDMA 4364 | Compressors – Assembly dimensions for piston rod seals – Lubricated, uncooled with escape-gas outlet | 1978-12 |
| VDMA 4365 | Compressors – Pneumatic tools – Quantities, symbols and units | 1978-12 |
| VDMA 4368 | Liquid ring compressors – Thermodynamic acceptance and performance test codes | 1981-07 |
| VDMA 4369 | Compressors and vacuum pumps – Instruction sheet for the protection against possible contamination during maintenance activities | 1995-03 |
| VDMA 4370 | Energy-efficient compressed air systems – Guideline for identification and evaluation of existing weak points and for correct coverage of potential energy savings | 2012-11 |
| VDMA 4379 | Vacuum technology- identification code for flange connections | 1986-11 |
| VDMA 15390-1 | Compressed Air Quality – Part 1: Typical purity classes according to ISO 8573-11 and instructions concerning generation, treatment and monitoring of compressed air | 2014-12 |
| VDMA 15390-2 | Compressed air purity – Part 2: Typical application specific purity classes according to ISO 8573-1: 2010 and instructions for generation and verification of appropriate compressed air purity for applications in the sector of food and pharma technology | 2018-04 |
| VDMA 15390-3 | Compressed air purity – Part 3: Typical application specific purity classes according to ISO 8573-1:2010 and guidance for achieving and monitoring of respective compressed air purity for paint applications | 2020-03 |
| VDMA 15391-1 | Economical and safe compressed air distribution – Part 1: Planning and new construction | 2020-05 |
| VDMA 15392 | Typical requirements for service of a compressed air system | 2017-09 |
| VDMA 24186-4 | Program of services for the maintenance of technical systems and equipment in buildings – Part 4: Measurement and control equipment and building automation and control systemsautomation systems | 2018-05 |
| VDMA 24186-6 | Program of services for the maintenance of technical systems and equipment in buildings – Part 6: Sanitary devices and systems | 2002-09 |
| VDMA 24223-1 | Device Profile for Liquid and Vacuum Pumps – Part 1: Device Information Model – Universal Profile Elements – Generic Pump | 2008-04 |
| VDMA 24223-2 | Device Profile for Liquid and Vacuum Pumps – Part 2: Vacuum Pumps | 2008-04 |
| VDMA 24408-1 | Limit of the scope of the European Construction Products Regulation 305/2011/EU with respect to process plant and machinery – Part 1: General | 2016-07 |
| VDMA 24581 | Pneumatic fluid power – Application notes for the optimization of the energy efficiency of pneumatic systems | 2013-08 |
| VDMA 24582 | Fieldbus Neutral Reference Architecture for Condition Monitoring in Factory Automation | 2014-04 |
| VDMA 40250-1 | OPC UA for Compressed Air Systems Part 1: Main Control Systems | 2021-09 |
| VDMA 40223 | OPC UA for pumps and vacuum pumps | 2021-09 |

# ISO standards

| Document number | Title | Issue date |
|---|---|---|
| ISO 1217 | Displacement Compressors – Acceptance Tests | 2009-07 |
| ISO 1217 Amd 1 | Displacement compressors – Acceptance tests – Amendment 1: Calculation of isotropic efficiency and relationship with specific capacity | 2016-04 |
| ISO 1219-1 | Fluid power systems and component – Graphical symbols and circuit diagram – Part 1: Graphical symbols for conventional use and data-processing applications | 2012-06 |
| ISO 1219-2 | Fluid power systems and component – Graphical symbols and circuit diagram – Part 2: Circuit diagrams | 2012-09 |
| ISO 1608-1 | Vapour vacuum pumps; measurement of performance characteristics; part 1: measurement of volume rate of flow (pumping speed) | 1993-12 |
| ISO 1608-2 | Vapour vacuum pumps; measurement of performance characteristics; part 2: measurement of critical backing pressure | 1989-12 |
| ISO 1609 | Vacuum technology – Dimensions of non-knife edge flanges | 2020-01 |
| ISO 2787 | Rotary and percussive pneumatic tools; performance tests | 1984-01 |
| ISO 2861 | Vacuum technology – Dimensions of clamped-type quick-release couplings | 2020-02 |
| ISO 3529-1 | Vacuum technology – Vocabulary – Part 1: General terms | 2019-07 |
| ISO 3529-2 | Vacuum technology – Vocabulary – Part 2: Vacuum pumps and related terms | 2020-02 |
| ISO 3529-3 | Vacuum technology – Vocabulary – Part 3: Total and partial pressure vacuum gauges | 2014-04 |
| ISO 3530 | Vacuum technology; Mass-spectrometer-type leak-detector calibration | 1979-09 |
| ISO 3567 | Vacuum gauge – Calibration by direct comparison with a reference gauge | 2011-12 |
| ISO 3669 | Vacuum technology – Dimensions of knife-edge flanges | 2020-02 |
| ISO 3857-1 | Compressors, pneumatic tools and machines; Vocabulary; Part I: General Bilingual edition | 1977-08 |
| ISO 3857-2 | Compressors, pneumatic tools and machines; Vocabulary; Part II: Compressors Bilingual edition | 1977-06 |
| ISO 3857-3 | Compressors, pneumatic tools and machines; vocabulary; part 3: pneumatic tools and machines | 1989-04 |
| ISO 3857-4 | Compressors, pneumatic tools and machine – Vocabulary – Part 4: Air treatment | 2012-11 |
| ISO/CD 4376 | Cycle Energy Requirement – Acceptance Test | Committee Draft, not yet published |
| ISO 5011 | Inlet air cleaning equipment for internal combustion engines and compressor – Performance testing | 2020-09 |
| ISO 5167-1 | Measurement of fluid flow by means of pressure differential devices inserted in circular cross-section conduits running full – Part 1: General principles and requirements | 2022-06 |
| ISO 5388 | Stationary air compressors; Safety rules and code of practice | 1981-08 |
| ISO 5389 | Turbocompressor – Performance test code | 2005-12 |
| ISO 5390 | Compressors; Classification Bilingual edition | 1977-05 |
| ISO 5391 | Pneumatic tools and machine – Vocabulary | 2003-12 |
| ISO 5393 | Rotary tools for threaded fastener – Performance test method | 2017-11 |
| ISO 5598 | Fluid power systems and component – Vocabulary | 2020-01 |
| ISO 5941 | Compressors, pneumatic tools and machines; Preferred pressures | 1979-09 |
| ISO/WD TS 6737 | Vacuum technology – Vacuum gauges – Characteristics for a stable ionisation vacuum gauge | Working Draft Publication in 2024 |

| Document number | Title | Issue date |
|---|---|---|
| ISO 6743-3 | Lubricants, industrial oils and related products (Class L) – Classification – Part 3: Family D (compressors) | 2003-10 |
| ISO 7183 | Compressed-air dryer – Specifications and testing | 2007-12 |
| ISO 7396-1 | Medical gas pipeline system – Part 1: Pipeline systems for compressed medical gases and vacuum | 2016-02 |
| ISO/WD 7396-4 | Medical gas pipeline systems – Part 4: Air Compressor Units | New Project |
| ISO 7574-1 | Acoustics; Statistical methods for determining and verifying stated noise emission values of machinery and equipment; Part 1: General considerations and definitions | 1985-12 |
| ISO 7574-2 | Acoustics; Statistical methods for determining and verifying stated noise emission values of machinery and equipment; Part 2: Methods for stated values for individual machines | 1985-12 |
| ISO 7574-3 | Acoustics; Statistical methods for determining and verifying stated noise emission values of machinery and equipment; Part 3 : Simple (transition) method for stated values for batches of machines | 1985-12 |
| ISO 7574-4 | Acoustics; statistical methods for determining and verifying stated noise emission values of machinery and equipment; part 4: methods for stated values for batches of machines | 1985-12 |
| ISO 8573-1 | Compressed air – Part 1: Contaminants and purity classes | 2010-04 |
| ISO 8573-2 | Compressed air – Contaminant measurement – Part 2: Oil aerosol content | 2018-02 |
| ISO 8573-3 | Compressed air – Part 3: Test methods for measurement of humidity | 1999-06 |
| ISO 8573-4 | Compressed air – Contaminant measurement – Part 4: Particle content | 2019-02 |
| ISO 8573-5 | Compressed air – Part 5: Test methods of oil vapour and organic solvent content | 2001-12 |
| ISO 8573-6 | Compressed air – Part 6: Test methods for gaseous contaminant content | 2003-05 |
| ISO 8573-7 | Compressed air – Part 7: Test method for viable microbiological contaminant content | 2003-05 |
| ISO 8573-8 | Compressed air – Part 8: Test methods for solid particle content by mass concentration | 2004-02 |
| ISO 8573-9 | Compressed air – Part 9: Test methods for liquid water content | 2004-02 |
| ISO 9803-1 | Vacuum technology – Mounting dimensions of pipeline fitting – Part 1: Non knife-edge flange type | 2020-01 |
| ISO 9803-2 | Vacuum technology – Mounting dimensions of pipeline fitting – Part 2: Knife-edge flange type | 2020-01 |
| ISO 11011 | Compressed air – Energy efficiency – Assessment | 2013-09 |
| ISO/TR 11688-1 | Acoustic – Recommended practice for the design of low-noise machinery and equipment – Part 1: Planning | 1995-03 |
| ISO 12500-1 | Filters for compressed air – Test method – Part 1: Oil aerosols | 2007-06 |
| ISO 12500-2 | Filters for compressed air – Test method – Part 2: Oil vapours | 2007-06 |
| ISO 12500-3 | Filters for compressed air – Test method – Part 3: Particulates | 2009-07 |
| ISO 12500-4 | Filters for compressed air – Methods of test – Part 4: Water | 2009-12 |
| ISO/TR 12942 | Compressor – Classification – Complementary information to ISO 5390 | 2012-09 |
| ISO 13707 | Petroleum and natural gas industrie – Reciprocating compressors | 2000-12 |
| ISO 13851 | Safety of machinery – Two-hand control device – Principles for design and selection | 2019-03 |
| ISO 13854 | Safety of machinery – Minimum gaps to avoid crushing of parts of the human body | 2017-11 |
| ISO 14291 | Vacuum gauge – Definitions and specifications for quadrupole mass spectrometers | 2012-07 |
| ISO 14617-9 | Graphical symbols for diagram – Part 9: Pumps, compressors and fans | 2002-09 |
| ISO 14743 | Pneumatic fluid power – Push-in connectors for thermoplastic tubes | 2020-01 |
| ISO 14839-4 | Mechanical vibration – Vibration of rotating machinery equipped with active magnetic bearing – Part 4: Technical guidelines | 2012-03 |
| ISO 16924 | Natural gas fuelling station – LNG stations for fuelling vehicles | 2016-12 |
| ISO 17066 | Hydraulic tool – Vocabulary | 2007-12 |

| Document number | Title | Issue date |
|---|---|---|
| ISO/TS 17104 | Rotary tool for threaded fastener – Hydraulic impulse tool – Performance test method | 2006-04 |
| ISO 18623-1 | Air compressors and compressed air system – Air compressor – Part 1: Safety requirements (ISO/DIS 18623-1:2016) | 2016-03 Draft |
| ISO/WD 18623-2 | Air compressors and compressed air systems – Compressed air systems – Part 2: Good practice | New Project |
| ISO 18740 | Turbocompressor – Performance test code – Simplified acceptance test | 2016-07 |
| ISO 19685 | Vacuum technology – Vacuum gauge – Specifications, calibration and measurement uncertainties for Pirani gauges | 2017-09 |
| ISO/TS 19713-1 | Road vehicle – Inlet air cleaning equipment for internal combustion engines and compressor – Part 1: Fractional efficiency testing with fine particles (0,3 µm to 5 µm optical diameter) | 2010-07 |
| ISO/TS 19713-2 | Road vehicle – Inlet air cleaning equipment for internal combustion engines and compressor – Part 2: Fractional efficiency testing with coarse particles (5 µm to 40 µm optical diameter) | 2010-07 |
| ISO 19880-1: | Gaseous hydrogen – Fuelling station – Part 1: General requirements | 2020-03 |
| ISO/AWI 19880-4 | Gaseous hydrogen – Fueling stations – Part 4: Compressors | New Project |
| ISO 20146 | Vacuum technology – Vacuum gauge – Specifications, calibration and measurement uncertainties for capacitance diaphragm gauges | 2019-01 |
| ISO/TS 20175 | Vacuum technology – Vacuum gauge – Characterization of quadrupole mass spectrometers for partial pressure measurement | 2018-04 |
| ISO/TS 20177 | Vacuum technology – Vacuum gauge – Procedures to measure and report outgassing rates | 2018-06 |
| ISO/TR 20571 | Dynaload – Design and construction – Use and maintenance | 2018-10 |
| ISO/TS 21108 | Hand-held power tool – Impulse wrenche – Dimensions and tolerances of interface to power socket | 2005-06 |
| ISO 21358 | Vacuum technology – Right-angle valve – Dimensions and interfaces for pneumatic actuator | 2020-01 |
| ISO 21360-1 | Vacuum technology – Standard methods for measuring vacuum-pump performance – Part 1: General description | 2020-06 |
| ISO 21360-2 | Vacuum technology – Standard methods for measuring vacuum-pump performance – Part 2: Positive displacement vacuum pumps | 2020-06 |
| ISO 21360-3 | Vacuum technology – Standard methods for measuring vacuum pump performance – Part 3: Specific parameters for mechanical booster vacuum pumps | 2019-01 |
| ISO 21360-4 | Vacuum technology – Standard methods for measuring vacuum-pump performance – Part 4: Turbomolecular vacuum pumps | 2018-07 |
| ISO/DIS 21360-5 | Vacuum technology – Standard methods for measuring vacuum-pump performance – Part 5: NEG vacuum pumps | Committee Draft, not yet published |
| ISO/DIS 21360-6 | Vacuum technology – Standard methods for measuring vacuum-pump performance – Part 6: Cryo vacuum pumps | Committee Draft, not yet published |
| ISO/CD 22484 | Displacement and dynamic compressors – Performance test code for electric driven low pressure air compressor packages | Committee Draft, not yet published |
| ISO/TR 27609 | Vibration in hand-held tool – Vibration measurement methods for grinder – Evaluation of round-robin test | 2007-06 |

| Document number | Title | Issue date |
|---|---|---|
| ISO 24477 | Vacuum technology – Vacuum gauges – Specifications, calibration and measurement uncertainties for spinning rotor gauges | 2022-08 |
| ISO 27892 | Vacuum technology – Turbomolecular pump – Measurement of rapid shutdown torque | 2010-02 |
| ISO 27893 | Vacuum technology – Vacuum gauge – Evaluation of the uncertainties of results of calibrations by direct comparison with a reference gauge | 2011-08 |
| ISO 27894 | Vacuum technology – Vacuum gauge – Specifications for hot cathode ionization gauges | 2009-12 |
| ISO 27895 | Vacuum technology – Valve – Leak test | 2009-12 |

# IEC standards

| Document number | Title | Issue date |
|---|---|---|
| DIN EN IEC 60072-1 | Dimensions and output series for rotating electrical machine – Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080 (IEC 2/2035/CD:2020); Text in German and English | 2021-04 Draft |
| DIN EN IEC 60072-2 | Dimensions and output series for rotating electrical machine – Part 2: Frame numbers 355 to 1000 and flange number 1180 to 2360 (IEC 60072-2:1990) | 2006-03 |
| IEC 60072-3, CEI 60072-3 | Dimensions and output series for rotating electrical machines – Part 3: Small built-in motors – Flange numbers BF10 to BF50 | 1994-03 |

# American Petrol Institute (API) / American National Standards Institute (ANSI)

| Document number | Title | Issue date |
|---|---|---|
| API STD 611 | General-purpose Steam Turbines for Petroleum, Chemical, and Gas Industry Services | 2008-03 |
| API STD 611 DATA SHEET | General-purpose Steam Turbines for Petroleum, Chemical, and Gas Industry Services- Mechanical Equipment Data Sheet | 2008-03 |
| API STD 612 | Petroleum, Petrochemical, and Natural Gas Industries-Steam Turbines- Special-purpose Applications | 2020-11 |
| API STD 612 DATA SHEET | Petroleum, petrochemical and natural gas industries-Steam turbines-Special-purpose applications. | 2020-11 |
| API STD 613 | Special-purpose Gears for Petroleum, Chemical, and Gas Industry Services | 2021-07 |
| API STD 613 DATA SHEET | Special-purpose Gears for Petroleum, Chemical, and Gas Industry Services | 2021-07 |
| API STD 614 | Lubrication, Shaft-sealing and Oil-control Systems and Auxiliaries | 2008-04 |
| API STD 614 DATA SHEET | Lubrication, Shaft-sealing and Oil-control Systems and Auxiliaries; Datasheets | 2008-04 |
| API STD 616 | Gas Turbines for Petroleum, Chemical, and Gas Industry Services | 2011-01 |
| API STD 616 DATA SHEET | Gas Turbines for the Petroleum, Chemical, and Gas Industry Services – Mechanical Equipment Data Sheet | 2000-00 |
| API STD 617 | Axial and Centrifugal Compressors and Expander-compressors | 2014-09 |
| API STD 617 DATA SHEET | Axial and Centrifugal Compressors and Expander – Mechanical Equipment Data Sheet | 2014-00 |
| API STD 618 | Recriprocating Compressors for Petroleum, Chemical, and Gas Industry Services | 2007-12 |
| API STD 618 DATA SHEET | Reciprocating Compressors for Petroleum, Chemical, and Gas Industry Services | 2007-12 |
| API STD 619 | Rotary-Type Positive Displacement Compressors for Petroleum, Petrochemical and Natural Gas Industries | 2010-12 |
| API STD 619 DATA SHEET | Rotary-Type Positive-Displacement Compressors for Petroleum, Petrochemical, and Natural Gas Industries – Mechanical Equipment Data Sheet | 2000-00 |
| API STD 670 | Machinery Protection Systems | 2014-11 |
| API STD 670 DATA SHEET | Machinery Protection Systems – Mechanical Equipment Data Sheet | 2014-00 |
| API STD 671 | Special-Purpose Couplings for Petroleum, Chemical, and Gas Industry Services | 2020-08 |
| API STD 671 DATA SHEET | Special-Purpose Couplings for Petroleum, Chemical, and Gas Industry Services | 2020-08 |
| API STD 672 | Packaged, Integrally Geared Centrifugal Air Compressors for Petroleum, Chemical, and Gas Industry Services | 2019-08 |
| API STD 672 DATA SHEET | Packaged, Integrally Geared Centrifugal Air Compressors for Petroleum, Chemical, and Gas Industry Services – Mechanical Equipment Data Sheet | 2019-00 |
| API STD 676 | Positive Displacement Pumps – Rotary | 2009-11 |
| API STD 676 DATA SHEET | Positive Displacement Pumps – Rotary – Mechanical Equipment Data Sheet | 2009-00 |
| API STD 677 | General-purpose, Extruder, and Epicyclic Gear Units for Petroleum, Chemical, and Gas Industry Services | 2021-09 |
| API STD 677 DATA SHEET | General-purpose, Extruder, and Epicyclic Gear Units for Petroleum, Chemical, and Gas Industry Services | 2021-09 |
| API STD 681 | Liquid Ring Compressors and Vacuum Pumps in Petroleum, Chemical, and Gas Industry Services | 2021-07 |
| API STD 681 DATA SHEET | Liquid Ring Compressors and Vacuum Pumps in Petroleum, Chemical, and Gas Industry Services | 2021-07 |

| Document number | Title | Issue date |
|---|---|---|
| API RP 688 | Pulsation and Vibration Control in Positive Displacement Machinery Systems for Petroleum, Petrochemical, and Natural Gas Industry Services | 2012-04 |
| API RP 691 | Risk-based Machinery Management | 2017-06 |
| API RP 691 DATA SHEET | Risk-based Machinery Management – Equipment Data Sheet | 2017-06 |
| API STD 692 | Dry Gas Sealing Systems for Axial, Centrifugal, and Rotary Screw Compressors and Expanders | 2018-06 |
| ANSI/UL 1004-1 | UL Standard for Safety Rotating Electrical Machines – General Requirements | 2019-12 |
| ANSI/UL 1004-2 | UL Standard for Safety Impedance Protected Motors | 2014-01 |
| ANSI/UL 1004-3 | UL Standard for Safety Thermally Protected Motors | 2015-02 |
| ANSI/UL 1004-4 | UL Standard for Safety Electric Generators | 2018-07 |
| UL 2111 | UL Standard for Safety Overheating Protection for Motors | 2006-01 |
| ANSI/UL 61010-1 | UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements | 2012-05 |
| UL 61010-2-030 | UL Standard for Safety Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-030: Particular requirements for testing and measuring circuits | 2018-12 |
| UL 61010-2-201 | UL Standard for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-201: Particular Requirements for Control Equipment | 2018-05 |

# International Association of Oil & Gas Producers (IOGP)

| Document number | Title | Issue date |
|---|---|---|
| S-612 | Specification for Air Compressors specification | |
| S-613 | Specification for Air Dryer Package specification | |
| S-619 | Specification for Unfired, Fusion Welded Pressure Vessels | |

# OPC Foundation/OPC UA Companion Specification

| Document number | Title | Issue date |
|---|---|---|
| OPC 10000-100 | UA Specification Part 100 – Devices | Release 1.03, 2021-03-09 |
| OPC 40001-1 | UA CS for Machinery Part 1 – Basic Building Blocks | Release 1.01, 2021-02-17 |
| OPC 40223 | UA Companion Specification for Pumps and Vacuum Pumps | Release 1.00, 2021-05-28 |
| OPC 40250-1 | OPC UA for Compressed Air Systems Part 1: Main Control Systems | Release 1.00.1, 2021-07-13 |

Further information on relevant OPC UA Companion Specifications and Basic Specifications can be found on the OPC Foundation website:

- Unified Architecture:
  https://opcfoundation.org/developer-tools/specifications-unified-architecture
- OPC UA Information Models:
  https://opcfoundation.org/developer-tools/specifications-opc-ua-information-models/opc-ua-for-pumps-and-vacuum-pumps/

# PNEUROP recommendations

| | |
|---|---|
| **Air Treatment and General Services** | |
| 6607 (1980) | A simplified method for Air Volume Flow Rate Measurement by means of circular arc venturi nozzles |
| PN14M3 / 1997 | Contaminations, Purity Classes and Measurement Methods |
| **Noise and Vibration** | |
| PN3-01/November 2013 information sheet | Vibration. Using declared values to estimate workplace exposures (Information for the employer) |
| PN3-05/June 2009 information sheet | Vibration Standards are changing |
| PN3-02/November 2013 information sheet | Noise and vibration information published in tool instruction manuals as required by the EU Machinery Directive (2006/42/EC) |
| PNEUROP Publication<br><br>DYNALOAD – design, construction, use and maintenance | DYNALOAD – test device for percussive tools – design, construction.<br><br>(http://www.pneurop.eu/uploads/documents/pdf/DYNALOAD_2005.pdf) |
| PN3-01/May 2007 information sheet | Vibration. Using declared values to estimate workplace exposures (Information for the employer).<br>(http://www.pneurop.eu/uploads/documents/pdf/PN3-01-Vibration_info_sheet_0507.pdf) |
| **Compliance** | |
| PN3-03/May 2007 information sheet | Machines Directive. 98/37/EC until 29 December 2009 then 2006/42/EC applies from that date. Conformity Considerations |
| **Compressors** | |
| 82/1 | Pneurop Safety Recommendation for the Use and Operation of Portable Air Compressors (illustrated) |
| 82/2 | Pneurop Safety Recommendation for the Use and Operation of Stationary Air Compressors (illustrated) |
| **Process gas compressors** | |
| Frankfurt, 2001-05-02 | Position paper for the application of the Pressure Equipment Directive for Process compressors |
| **Terminology and Symbols** | |
| 5617 (1977) | Graphical Symbols for Control and Instrument Panels on Rock Drilling Rigs |
| **Industrial and Contractor Tools** | |
| PN3-04/May 2008 Information sheet | Batteries Directive 2006/66/EC: Summary for PN3 |

**Vacuum technology**

| | |
|---|---|
| 5607 (1972) | Vacuum Pumps, Rules of Acceptance: Part II – Vapour Pumps |
| 5608 (1973) | Vacuum Pumps, Rules of Acceptance: Part III – Turbomolecular Pumps |
| 5615 (1976) | Vacuum Pumps, Rules of Acceptance: Part IV – Sputter Ion Pumps |
| 6601 (1978) | Application of National Standards for Acceptance and Capacity Measurement of Steam Jet Vacuum Pumps and Steam Jet Compressors |
| 6602 (1979) | Vacuum Pumps, Rules of Acceptance: Part I – Positive Displacement Pumps – Roots Pumps |
| PN5ASRCC/5 | Pneurop Acceptance Specification for Refrigerator Cooled Cryopumps – Part 5 |
| 6606 (1981) | Vacuum Flanges and Connections – Dimensions |
| 6612 (1984) | Acceptance Specification for Liquid Ring Vacuum Pumps |
| 661700 (1985) | Recommended Practice on Vacuum Measurement |

# Collection of European Directives and Regulations relevant for KDV products*

* No guarantee, no claim to completeness

Pressure Equipment Directive (PED; current version: 2014/68/EU)
Simple pressure vessel directive (SPVD; current version: 2009/105/EC)
Fan Regulation 327/2011
Noise by outdouur equipment directive 2000/14/EC
ATEX directive 94/9/EC
WEEE 2012/19/EU
Packaging 94/62/EC (amended by 2004/12/EC, 2005/20/EC and Regulation No. 219/2009
Low voltage 2006/95/EC

| Document number | Title | Issue date |
|---|---|---|
| 2004/108/EC | Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC | 2006-11-21 |
| 2006/42/EC, 2006/42/EC, 2006/42/CE | Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery and amending Directive 95/16/EC (recast) | 2006-05-17 |
| 2006/95/EC | Low voltage | |
| 2006/42/ECBer, 2006/42/ECCor, 2006/42/CERect | Corrigendum to Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery and amending Directive 95/16/EC | 2007-03-16 |
| 2009/127/EC, 2009/127/EC, 2009/127/CE | Directive 2009/127/EC of the European Parliament and of the Council of 21 October 2009 amending Directive 2006/42/EC with regard to machinery for pesticide application | 2009-10-21 |
| 2011/65/EU, 2011/65/EU, 2011/65/UE, RoHS | Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment | 2011-06-08 |
| 2011/65/EUBer 2014, 2011/65/EUCor 2014, 2011/65/UERect 2014 | Corrigendum to Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment | 2014-02-14 |
| 2013/1082/EUB, 2013/1082/EUD, 2013/1082/UED | Decision No 1082/2013/EU of the European Parliament and of the Council of 22 October 2013 on serious cross-border threats to health and repealing Decision No 2119/98/EC. | 2013-10-22 |
| 2013/1082/EUBBer, 2013/1082/EUDCor, 2013/1082/UEDRect | Corrigendum to Decision No 1082/2013/EU of the European Parliament and of the Council of 22 October 2013 on serious cross-border threats to health and repealing Decision No 2119/98/EC | 2015-09-04 |
| 2014/30/EU, 2014/30/EU, 2014/30/UE, EMV | Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility | 2014-02-26 |
| 2014/30/EUMitt 2016-08, 2014/30/EUComm 2016-08, 2014/30/UEComm 2016-08, 2016/C293/03 | Commission communication in the framework of the implementation of the Directive 2014/30/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to electromagnetic compatibility | 2016-08-12 |

| Document number | Title | Issue date |
|---|---|---|
| 2014/34/EU, 2014/34/EU, 2014/34/UE | Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres | 2014-02-26 |
| 2014/34/EUMitt 2018-03, 2014/34/EUComm 2018-03, 2014/34/UEComm 2018-03, 2018/C092/02. | Commission communication in the framework of the implementation of the Directive 2014/34/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres | 2018-03-09 |
| 2014/35/EU, 2014/35/EU, 2014/35/UE | Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits. | 2014-02-26 |
| 2014/35/EUMitt 2017-09, 2014/35/EUComm 2017-09, 2014/35/UEComm 2017-09, 2017/C298/02 | Commission communication in the framework of the implementation of Directive 2014/35/EU of the European Parliament and of the Council on the harmonisation of the laws of Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits | 2017-09-08 |
| 2014/53/EU, 2014/53/EU, 2014/53/UE, RED | Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC. | 2014-04-16 |
| 2014/53/EUBer, 2014/53/EUCor, 2014/53/UERect | Corrigendum to Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC | 2015-01-23 |

# Sources of supply

| | |
|---|---|
| DIN standards<br>DIN ISO standards<br>EN Standards (as draft DIN EN)<br>prEN Standards (as draft DIN EN)<br>VDMA VDMA Specifications<br>VDI guidelines | Beuth Verlag GmbH<br>at DIN Square<br>Burggrafenstr. 6<br>D-10787 Berlin<br>Phone +49 30 2601-1331<br>E-Mail kundenservice@beuth.de<br>Internet http://www.beuth.de |
| ISO<br>ISO/CDISO/DIS<br>ISO/FDIS<br>ISO/NP<br>ISO/TS<br>ISO/TR<br>ISO/WD | International Organisation<br>for Standardization (ISO)<br>ISO Central Secretariat<br>Chemin de Blandonnet 8<br>CP 401<br>CH-1214 Vernier, Geneva<br>Phone +41 22 7490111<br>E-Mail central@iso.org<br>Internet http://www.iso.org |
| PNEUROP<br>PNEUROP/CAGI | PNEUROP General Secretariat<br>BluePoint Brussels<br>80 Bd Reyers<br>B-1030 Brussels<br>Phone +32 2 2066866<br>E-Mail secretariat@pneurop.eu<br>Internet http://www.pneurop.eu |

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