

Standards and technical rules

Quality, health and safety

Name	Content
DIN ISO 9001	Quality assurance systems: Model for Quality Assurance in Design/Development, Production, Installation and Servicing
BGI/GUV-I 850-0	Guidelines for laboratories (formerly BRG 120), also includes TRGS 526
GPSG	Act on Technical Work Equipment and Consumer Products
TRGS 526	Technical Data for Hazardous Substances

Laboratory furniture

Name	Content
DIN EN 14 056	Laboratory furniture – Recommendations for design and installation
DIN EN 13 150	Workbenches for laboratories: Dimensions, safety requirements and test methods
DIN EN 14 470, part 1	Fire safety storage cabinets: Safety storage cabinets for flammable liquids
DIN EN 14 470, part 2	Fire safety storage cabinets: Safety storage cabinets for pressurised gas cylinders
DIN 12 915	Sinks for laboratory benches
DIN 12 916	Large size tiles for laboratory bench tops
DIN 12 924, part 2	Laboratory equipment: Fume cupboards – Special application fume cupboards
DIN 25 466	Fume hoods for radioactive materials: Construction and operation requirements
DIN EN 14 175, part 1	Fume cupboards – Vocabulary
DIN EN 14 175, part 2	Fume cupboards – Safety and performance requirements
DIN EN 14 175, part 3	Fume cupboards – Type test methods
DIN EN 14 175, part 4	Fume cupboards – On-site test methods
DIN EN 14 175, part 6	Fume cupboards – Variable air volume fume cupboards
UL 1805	Laboratory Hoods and Cabinets
ASHRAE 110 P	Method of Testing Performance of Laboratory Fume Hoods
DIN 1946, part 7	Heating, ventilation and air conditioning: HVAC systems in laboratories
DIN EN 14 727	Laboratory furniture: Storage units for laboratories – Requirements and test methods

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Name	Content
DIN 4554	Office furniture: Work tables and storage furniture – Requirements and tests
DIN report 147	Requirements and tests of office furniture – Guideline for the security requirements on work tables and storage furniture
DIN EN 527, part 1	Work tables and desks: Dimensions
DIN EN 527, part 2	Work tables and desks: Mechanical safety requirements
DIN EN 527, part 3	Work tables and desks: Methods of test for the determination of the stability and the mechanical strength of the structure

Fittings and pipe systems

Name	Content
DIN 1988, part 1	Drinking water supply systems (TRWI): General
DIN 1988, part 2	Drinking water supply systems (TRWI): Materials, components, appliances, design and installation
DIN 1988, part 3	Drinking water supply systems (TRWI): Pipe sizing
DIN 1988, part 4	Drinking water supply systems (TRWI): Drinking water protection and drinking water quality control
DIN 1988, part 5	Drinking water supply systems (TRWI): Pressure boosting and reduction
DIN 1988, part 7	Drinking water supply systems (TRWI): Turnbuckles made from steel tubes or round steel bars
DIN EN 1717	Protection against pollution of potable water installations and general requirements of devices to prevent pollution by backflow
DIN EN 12 056, part 1	Gravity drainage systems inside buildings – General and performance requirements
DIN EN 12 056, part 2	Gravity drainage systems inside buildings – Sanitary pipework, layout and calculation
DIN EN 12 056, part 4	Gravity drainage systems inside buildings – Wastewater lifting plants, layout and calculation
DIN 16 892	Crosslinked high-density polyethylene (PE-X) pipes
DVGW G 600 - TRGI 1986	Regulations for gas plants (TRGI)
DVGW G 621	Gas installations in laboratories and science & technology lecture rooms – Installation and operation
VDMA 4390, part 1:	Planning and installation of new and extension of existing pure gas supply devices – Part 1: Valves
VDMA 4390, part 2:	Planning and installation of new and extension of existing pure gas supply devices – Part 2: Pipe systems

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Name	Content
TRG 280	Technical regulations, pressure gas: General requirements on compressed gas tanks – Operation of compressed gas tanks
TRF 1996, part 1	Technical regulations, liquid gas:
TRF 1996, part 2	Technical regulations, liquid gas:
TRbF 20	Technical Rules on Flammable Liquids - Storage, issue April 2001
DIN 30,664, part 1	Hoses for gasfired burners for laboratories, without shroud and armoring – Part 1: Safety requirements and tests
DIN 3383, part 2	Hose assemblies and connection fittings – Part 2: Hose assemblies for rigid connection
DIN 3383, part 4	Hose assemblies and connection fittings – Part 4: Safety connection fittings for gas and couplings for laboratory tubing
DIN 3384	Hose assemblies of stainless steel for gas – Safety requirements, testing, marking
DIN 3399	Gas low-pressure cut-off valves – Safety requirements, testing
DIN EN 15,154, part 1	Emergency safety showers – Part 1: Plumbed-in body showers for laboratories
DIN EN 15,154, part 2	Emergency safety showers – Part 2: Plumbed-in eye wash units
DVGW 534	Connecting pipe elements and pipe connections for pipes in the drinking water installation
DIN 12 918, part 1	Laboratory equipment: Laboratory fittings – Part 1: Valves for water
DIN 12 918, part 2	Laboratory equipment: Laboratory fittings – Part 2: Valves for fuel gases
DIN 12 918, part 3	Laboratory equipment: Laboratory fittings – Part 3: Valves for technical gases
DIN 12 918, part 4	Laboratory equipment: Laboratory fittings – Part 4: Valves for pure gases
DIN EN 13 792	Colour coding of taps and valves for use in laboratories

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Electrical engineering and electronics

Standard	Content
DIN EN 61010, part 1 VDE 0411, part 1	Safety requirements for electrical equipment for measurement, control and laboratory use
DIN 57,789, part 100 VDE 0789, part 100	Classroom and laboratory equipment and furniture safety specification for powered constructional units
DIN VDE 0100, part 300	Installation of power installations with nominal voltages up to 1,000 V: Assessment of general characteristics of installations
DIN VDE 0100, part 540	Installation of power installations with nominal voltages up to 1,000 V: Selection and erection of electrical equipment; earthing arrangements, protective conductors, equipotential bonding
DIN VDE 0100, part 610	Installation of power installations with nominal voltages up to 1,000 V: Verification – Initial
DIN VDE 0100, part 723	Erection of low-voltage installations – Requirements for special installations or locations - Part 723: Class-rooms with experimental equipment
DIN 31 000 VDE 1000	Safety design of technical products: General principles
DIN EN 61 000 - 6 - 1 VDE 0839, part 6-1	Electromagnetic compatibility (EMC)/Generic standards – Immunity for residential, commercial and light-industrial environments
DIN EN 61 000 - 6 - 2 VDE 0839, part 6-2	Electromagnetic compatibility (EMC)/Generic standards – Immunity for industrial environments
DIN EN 61 000 - 6 - 3 VDE 0839, part 6-3	Electromagnetic compatibility (EMC)/Generic standards – Immunity for residential, commercial and light-industrial environments
DIN EN 61 000 - 6 - 4 VDE 0839, part 6-4	Electromagnetic compatibility (EMC)/Generic standards – Emission standard for industrial environments
BGV A3	UV – Elektrische Anlagen und Betriebsmittel (Electrical Systems and Equipment)
Directive 2006/42/EC	EC machinery directive
Directive 94/9/EC	EC directive on the approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)
Directive 73/23/EC	EC Low Voltage Directive
Directive 2004/108/EC	EC directive EMC (electromagnetic compatibility)