G	Sektion	PHYSICS
G01	Untersektion	INSTRUMENTS
G01	Klasse	MEASURING (counting G06M); TESTING
G01L	Unterklasse	MEASURING FORCE, STRESS, TORQUE, WORK, MECHANICAL POWER, MECHANICAL EFFICIENCY, OR FLUID PRESSURE (methods or devices for measuring specially adapted for metal-rolling mills B21B 38/00; sensing pressure changes for compensating measurements of other variables or for compensating readings of instruments for variations in pressure, see G01D or other relevant subclasses for the variable measured; weighing G01G; scanning-probe techniques using atomic force microscopy G01N 13/16; converting a pattern of forces into electrical signals G06K 11/00) [4]
G01L 1/00	Hauptgruppe	Measuring force or stress, in general (measuring force due to impact G01L 5/00; measuring fluid pressure G01L 7/00 to G01L 27/00; measuring deformation of bodies as a result of stress by using gauges G01B) [4]
G01L 1/02	1-Punkt Untergruppe	. by hydraulic or pneumatic means
G01L 1/04	1-Punkt Untergruppe	. by measuring elastic deformation of gauges, e.g. of springs
G01L 1/06	1-Punkt Untergruppe	. by measuring the permanent deformation of gauges, e.g. of compressed bodies
G01L 1/08	1-Punkt Untergruppe	. by the use of counterbalancing forces
G01L 1/10	1-Punkt Untergruppe	. by measuring variations of frequency of stressed vibrating elements, e.g. of stressed strings (using resistance strain gauges G01L 1/22)
G01L 1/12	1-Punkt Untergruppe	. by measuring variations in the magnetic properties of materials resulting from the application of stress
G01L 1/14	1-Punkt Untergruppe	. by measuring variations in capacitance or inductance of electrical elements, e.g. by measuring variations of frequency of electrical oscillators
G01L 1/16	1-Punkt Untergruppe	. using properties of piezo-electric devices
G01L 1/18	1-Punkt Untergruppe	. using properties of piezo-resistive materials, i.e. materials of which the ohmic resistance varies according to changes in magnitude or direction of force applied to the material (resistance strain gauges for measuring linear expansion or contraction G01B)
G01L 1/20	1-Punkt Untergruppe	. by measuring variations in ohmic resistance of solid materials or of electrically-conductive fluids (of piezo- resistive materials G01L 1/18); by making use of electrokinetic cells, i.e. liquid-containing cells wherein an electrical potential is produced or varied upon the application of stress
G01L 1/22	2-Punkt Untergruppe	using resistance strain gauges (resistance strain gauges for measuring linear expansion or contraction G01B)
G01L 1/24	1-Punkt Untergruppe	. by measuring variations of optical properties of material when it is stressed, e.g. by photoelastic stress analysis
G01L 1/25	1-Punkt Untergruppe	. using wave or particle radiation, e.g. X-rays, neutrons (G01L 1/24 takes precedence) [4]
G01L 1/26	1-Punkt Untergruppe	. Auxiliary measures taken, or devices used, in connection with the measurement of force, e.g. for preventing influence of transverse components of force, for preventing overload
G01L 3/00	Hauptgruppe	Measuring torque, work, mechanical power, or mechanical efficiency, in general
G01L 3/02	1-Punkt Untergruppe	. Rotary-transmission dynamometers
G01L 3/04	2-Punkt Untergruppe	wherein the torque-transmitting element comprises a torsionally-flexible shaft
G01L 3/06	3-Punkt Untergruppe	involving mechanical means for indicating
G01L 3/08	3-Punkt Untergruppe	involving optical means for indicating

6011-301	Symbol	Тур	Titel
Coll 3/16   2-Punkt Untergruppe   wherein the torque-transmitting element is other than a torsionally-flexible shaft	G01L 3/10	3-Punkt Untergruppe	involving electric or magnetic means for indicating
CO11. 3/16	G01L 3/12	4-Punkt Untergruppe	involving photoelectric means
Coll. 3/18   2-Punkt Untergruppe   . mechanically actuated	G01L 3/14	2-Punkt Untergruppe	wherein the torque-transmitting element is other than a torsionally-flexible shaft
6011.3/20 2-Punkt Untergruppe electrically or magnetically actuated 6011.3/21 2-Punkt Untergruppe electrically or magnetically actuated 6011.3/22 1-Punkt Untergruppe Devices for determining the value of power, e.g. by measuring and simultaneously multiplying the values of torque and revolutions per unit of time, by multiplying the values of tractive or propulsive force and velocity imeasuring velocity per se GUIP) 6011.3/60 1-Punkt Untergruppe Devices for measuring efficiency, i.e. the ratio of power output to power input 6011.5/00 Hauptgruppe Devices for measuring efficiency, i.e. the ratio of power output to power input 6011.5/00 1-Punkt Untergruppe progressive in seasuring force, e.g. due to impact, work, mechanical power, or torque, adapted for special purposes (measuring pressure of a fluent medium 6011.7/00 to 6011.21/00; measuring release force of ski safety bindings 6011.5/01 1-Punkt Untergruppe for measuring release force of ski safety bindings 6011.5/02 2-Punkt Untergruppe using mechanical means 6011.5/03 2-Punkt Untergruppe using fluid means 6011.5/10 2-Punkt Untergruppe using fluid means 6011.5/10 1-Punkt Untergruppe using fluid means 6011.5/11 1-Punkt Untergruppe for measuring attentive or propulsive power of vehicles 6011.5/11 1-Punkt Untergruppe for measuring the force of explosions; for measuring the energy of projectiles 6011.5/12 1-Punkt Untergruppe for measuring several components of force 6011.5/12 1-Punkt Untergruppe for measuring several components of force 6011.5/12 1-Punkt Untergruppe for measuring wheel side-thrust (in balancing 6011M) 6011.5/12 1-Punkt Untergruppe for measuring the force applied to control members, e.g. control members of vehicles, triggers 6011.5/12 1-Punkt Untergruppe for determining value of torque or twisting moment for bightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers 8259 23/14) 6011.5/12 1-Punkt Untergruppe for determining two or now p	G01L 3/16	1-Punkt Untergruppe	. Rotary-absorption dynamometers, e.g. of brake type
CO1L 3/24 2-Punkt Untergruppe electrically or magnetically actuated  CO1L 3/24 1-Punkt Untergruppe . Devices for determining the value of power, e.g. by measuring and simultaneously multiplying the values of tractive or propulsive force and velocity (measuring velocity per se GOIP)  CO1L 3/26 1-Punkt Untergruppe . Devices for measuring efficiency, i.e. the ratio of power output to power input  CO1L 5/00 Hauptgruppe . Devices for measuring efficiency, i.e. the ratio of power output to power input  CO1L 5/00 1-Punkt Untergruppe . Devices for measuring force, e.g. due to impact, work, mechanical power, or torque, adapted for special purposes (measuring pressure of a fluent medium CO1L 7/00 to CO1L 21/00; measuring rapid changes of pressure in steam, gas, or liquid CO1L 23/00)  CO1L 5/04 1-Punkt Untergruppe . for measuring tension in ropes, cables, wires, threads, belts, bands, or like flexible members  CO1L 5/06 2-Punkt Untergruppe using mechanical means  CO1L 5/06 2-Punkt Untergruppe using electric means  CO1L 5/10 2-Punkt Untergruppe using electric means  CO1L 5/10 1-Punkt Untergruppe . for measuring satial thrust in a retary shaft, e.g. of propulsion plants  CO1L 5/14 1-Punkt Untergruppe . for measuring the force of explosions; for measuring the energy of projectiles  CO1L 5/14 1-Punkt Untergruppe . for measuring the force of explosions; for measuring the energy of projectiles  CO1L 5/16 1-Punkt Untergruppe . for measuring several components of force  CO1L 5/16 1-Punkt Untergruppe . for measuring wheel side thrust (in balancing CO1M)  CO1L 5/16 1-Punkt Untergruppe . for measuring wheel side thrust (in balancing CO1M)  CO1L 5/26 1-Punkt Untergruppe . for determining value of torque or twisting moment for tiphtening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers 8258 23/14)  CO1L 5/26 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/26 1-Punkt Untergruppe . for determining the charact	G01L 3/18	2-Punkt Untergruppe	mechanically actuated
1-Punkt Untergruppe Devices for determining the value of power, e.g. by measuring and simultaneously multiplying the values of torque and revolutions per unit of time, by multiplying the values of tractive or propulsive force and velocity (measuring velocity) per se GUIP)  GOIL 3/26 1-Punkt Untergruppe Devices for measuring efficiency, i.e. the ratio of power output to power input  Apparatus for, or methods of, measuring force, e.g., due to impact, work, mechanical power, or torque, adapted for special purposes (measuring pressure of a fluent medium GOIL 7/00 to GOIL 21/00; measuring rapid changes of pressure in steam, gas, or liquid GOIL 23/00)  GOIL 5/03 1-Punkt Untergruppe . for measuring tension in ropes, cables, wires, threads, belts, bands, or like flexible members  GOIL 5/06 2-Punkt Untergruppe . using mechanical means  GOIL 5/10 2-Punkt Untergruppe . using mechanical means  GOIL 5/10 2-Punkt Untergruppe . or measuring axial thrust in a rotary shaff, e.g. of propulsion plants  GOIL 5/11 1-Punkt Untergruppe . for measuring the force of explosions; for measuring the energy of projectiles  GOIL 5/12 1-Punkt Untergruppe . for measuring the force of explosions; for measuring the energy of projectiles  GOIL 5/14 1-Punkt Untergruppe . for measuring ratios of force  GOIL 5/15 1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing GOIM)  GOIL 5/16 1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing GOIM)  GOIL 5/26 1-Punkt Untergruppe . for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed torrangements in wrenches or screwdrivers B258 23741  GOIL 5/26 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  GOIL 5/26 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  GOIL 5/26 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  GOIL 5/26 1-Punkt Unte	G01L 3/20	2-Punkt Untergruppe	fluid actuated
torque and revolutions per unit of time, by multiplying the values of tractive or propulsive force and velocity (measuring velocity per se G01P)  G01L 3/26  G01L 5/00  Hauptgruppe Apparatus for, or methods of, measuring force, e.g. due to impact, work, mechanical power, or torque, adapted for special purposes (measuring pressure of a fluent medium G01L 7/00 to G01L 21/00; measuring rapid changes of pressure in steam, gas, or liquid G01L 23/00)  G01L 5/03  1-Punkt Untergruppe  1 for measuring tension in ropes, cables, wires, threads, belts, bands, or like flexible members  G01L 5/06  2-Punkt Untergruppe  1 using mechanical means  G01L 5/10  2-Punkt Untergruppe  1 using electric means  G01L 5/10  2-Punkt Untergruppe  1 for measuring asial thrust in a rotary shaft, e.g. of propulsion plants  G01L 5/12  1-Punkt Untergruppe  1 for measuring asial thrust in a rotary shaft, e.g. of propulsion plants  G01L 5/14  1-Punkt Untergruppe  1 for measuring the tractive or propulsive power of vehicles  G01L 5/16  1-Punkt Untergruppe  1 for measuring sterior of explosions; for measuring the energy of projectiles  G01L 5/16  1-Punkt Untergruppe  1 for measuring ratios of force  G01L 5/16  1-Punkt Untergruppe  1 for measuring sweel side-thrust (in balancing G01M)  G01L 5/26  1-Punkt Untergruppe  1 for measuring wheel side-thrust (in balancing G01M)  G01L 5/26  1-Punkt Untergruppe  1 for determining value of torque or bristing moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers 8/258/23/14)  G01L 5/26  1-Punkt Untergruppe  1 for determining value of torque or bristing moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers 8/258/23/14)  G01L 5/26  1-Punkt Untergruppe  1 for determining the characteristic of torque in relation to revolutions per unit of time  G01L 5/20  1-Punkt Untergruppe  1 for determining the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressures-e	G01L 3/22	2-Punkt Untergruppe	electrically or magnetically actuated
Hauptgruppe   Apparatus for, or methods of, measuring force, e.g., due to Impact, work, mechanical power, or torque, adapted for special purposes (measuring pressure of a fluent medium G011. 7/00 to G011. 21/00; measuring release force of ski safety bindings	G01L 3/24	1-Punkt Untergruppe	torque and revolutions per unit of time, by multiplying the values of tractive or propulsive force and velocity
torque, adapted for special purposes (measuring pressure of a fluent medium GO1L 7/00 to GO1L 21/00; measuring rapid changes of pressure in steam, gas, or liquid GO1L 23/00)  GO1L 5/04	G01L 3/26	1-Punkt Untergruppe	. Devices for measuring efficiency, i.e. the ratio of power output to power input
1-Punkt Untergruppe . for measuring tension in ropes, cables, wires, threads, belts, bands, or like flexible members 2-Punkt Untergruppe using mechanical means 3-Punkt Untergruppe using fluid means 3-Punkt Untergruppe using fluid means 3-Punkt Untergruppe using electric means 3-Punkt Untergruppe using electric means 3-Punkt Untergruppe for measuring axial thrust in a rotary shaft, e.g. of propulsion plants 3-Punkt Untergruppe . for measuring the tractive or propulsive power of vehicles 3-Punkt Untergruppe . for measuring the force of explosions; for measuring the energy of projectiles 3-Punkt Untergruppe . for measuring several components of force 3-Punkt Untergruppe . for measuring ratios of force 3-Punkt Untergruppe . for measuring wheel side-thrust (in balancing G01M) 3-Punkt Untergruppe . for measuring wheel side-thrust (in balancing G01M) 3-Punkt Untergruppe . for measuring the force applied to control members, e.g. control members of vehicles, triggers 3-Punkt Untergruppe . for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23)14) 3-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time 3-Punkt Untergruppe . for testing brakes 3-Punkt Untergruppe . for testing brakes 3-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time 3-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time 3-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time 3-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time 3-Punkt Untergruppe for determining the characteristic of torque in relation to revolutions per unit of time 3-Punkt Untergruppe for determining the characteristic of torque in relation to revolutions per unit of	G01L 5/00	Hauptgruppe	torque, adapted for special purposes (measuring pressure of a fluent medium G01L 7/00 to G01L
CO1L 5/06 2-Punkt Untergruppe using mechanical means  CO1L 5/10 2-Punkt Untergruppe using fluid means  CO1L 5/10 2-Punkt Untergruppe using electric means  CO1L 5/12 1-Punkt Untergruppe . for measuring axial thrust in a rotary shaft, e.g. of propulsion plants  CO1L 5/13 1-Punkt Untergruppe . for measuring the tractive or propulsive power of vehicles  CO1L 5/14 1-Punkt Untergruppe . for measuring the force of explosions; for measuring the energy of projectiles  CO1L 5/16 1-Punkt Untergruppe . for measuring several components of force  CO1L 5/16 1-Punkt Untergruppe . for measuring ratios of force  CO1L 5/16 1-Punkt Untergruppe . for measuring ratios of force  CO1L 5/10 1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing GO1M)  CO1L 5/20 1-Punkt Untergruppe . for measuring the force applied to control members, e.g. control members of vehicles, triggers  CO1L 5/24 1-Punkt Untergruppe . for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14)  CO1L 5/26 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/28 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/20 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/26 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/20 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/20 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/20 1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/20 1-Punkt Untergruppe . for determining the definition of functions per unit of time  CO1L 5/2	G01L 5/03	1-Punkt Untergruppe	. for measuring release force of ski safety bindings
CO1L 5/10 2-Punkt Untergruppe using fluid means  CO1L 5/10 2-Punkt Untergruppe using fluid means  CO1L 5/12 1-Punkt Untergruppe using electric means  CO1L 5/13 1-Punkt Untergruppe for measuring axial thrust in a rotary shaft, e.g. of propulsion plants  CO1L 5/14 1-Punkt Untergruppe for measuring the tractive or propulsive power of vehicles  CO1L 5/14 1-Punkt Untergruppe for measuring the force of explosions; for measuring the energy of projectiles  CO1L 5/16 1-Punkt Untergruppe for measuring several components of force  CO1L 5/18 1-Punkt Untergruppe for measuring ratios of force  CO1L 5/20 1-Punkt Untergruppe for measuring wheel side-thrust (in balancing GO1M)  CO1L 5/22 1-Punkt Untergruppe for measuring the force applied to control members, e.g. control members of vehicles, triggers  CO1L 5/24 1-Punkt Untergruppe for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B258 23/14)  CO1L 5/28 1-Punkt Untergruppe for determining the characteristic of torque in relation to revolutions per unit of time  CO1L 5/28 1-Punkt Untergruppe for testing brakes  Measuring fluid pressure  Measuring fluid pressure  Measuring fluid pressure values GO1L 13/00; measuring two or more pressure values simultaneously of two or more pressure values GO1L 13/00; measuring two or more pressure valu	G01L 5/04	1-Punkt Untergruppe	. for measuring tension in ropes, cables, wires, threads, belts, bands, or like flexible members
2-Punkt Untergruppe using electric means  G01L 5/12 1-Punkt Untergruppe for measuring axial thrust in a rotary shaft, e.g. of propulsion plants  G01L 5/13 1-Punkt Untergruppe for measuring the tractive or propulsive power of vehicles  G01L 5/14 1-Punkt Untergruppe for measuring the force of explosions; for measuring the energy of projectiles  G01L 5/16 1-Punkt Untergruppe for measuring several components of force  G01L 5/18 1-Punkt Untergruppe for measuring actions of force  G01L 5/20 1-Punkt Untergruppe for measuring wheel side-thrust (in balancing G01M)  G01L 5/22 1-Punkt Untergruppe for measuring the force applied to control members, e.g. control members of vehicles, triggers  G01L 5/24 1-Punkt Untergruppe for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers 82:58 23/14)  G01L 5/26 1-Punkt Untergruppe for determining the characteristic of torque in relation to revolutions per unit of time  G01L 5/28 1-Punkt Untergruppe for testing brakes  Measuring fluid pressure  G01L 7/00 Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/06	2-Punkt Untergruppe	using mechanical means
1-Punkt Untergruppe . for measuring axial thrust in a rotary shaft, e.g. of propulsion plants  1-Punkt Untergruppe . for measuring the tractive or propulsive power of vehicles  1-Punkt Untergruppe . for measuring the force of explosions; for measuring the energy of projectiles  1-Punkt Untergruppe . for measuring several components of force  1-Punkt Untergruppe . for measuring ratios of force  1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing G01M)  1-Punkt Untergruppe . for measuring the force applied to control members, e.g. control members of vehicles, triggers  1-Punkt Untergruppe . for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14)  1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  1-Punkt Untergruppe . for testing brakes  Measuring fluid pressure  Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 12/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/08	2-Punkt Untergruppe	using fluid means
1-Punkt Untergruppe . for measuring the force of explosions; for measuring the energy of projectiles  1-Punkt Untergruppe . for measuring several components of force  1-Punkt Untergruppe . for measuring several components of force  1-Punkt Untergruppe . for measuring ratios of force  1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing G01M)  1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing G01M)  1-Punkt Untergruppe . for measuring the force applied to control members, e.g. control members of vehicles, triggers  1-Punkt Untergruppe . for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14)  1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  1-Punkt Untergruppe . for testing brakes  1-Punkt Untergruppe . Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values Simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se	G01L 5/10	2-Punkt Untergruppe	using electric means
1-Punkt Untergruppe for measuring the force of explosions; for measuring the energy of projectiles 1-Punkt Untergruppe for measuring several components of force 1-Punkt Untergruppe for measuring ratios of force 1-Punkt Untergruppe for measuring wheel side-thrust (in balancing G01M) 1-Punkt Untergruppe for measuring wheel side-thrust (in balancing G01M) 1-Punkt Untergruppe for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14) 1-Punkt Untergruppe for determining the characteristic of torque in relation to revolutions per unit of time 1-Punkt Untergruppe for testing brakes 1-Punkt Untergruppe for determining the characteristic of torque in relation to revolutions per unit of time 1-Punkt Untergruppe for determining the determining fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values simultaneously fool L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 15/00; hollow bodies deformable or displaceable under internal pressure per segues for the pressure per segues for the pressure per segues	G01L 5/12	1-Punkt Untergruppe	. for measuring axial thrust in a rotary shaft, e.g. of propulsion plants
G01L 5/16  1-Punkt Untergruppe . for measuring several components of force  G01L 5/18  1-Punkt Untergruppe . for measuring ratios of force  G01L 5/20  1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing G01M)  G01L 5/22  1-Punkt Untergruppe . for measuring the force applied to control members, e.g. control members of vehicles, triggers  G01L 5/24  1-Punkt Untergruppe . for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14)  G01L 5/26  1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  G01L 5/28  1-Punkt Untergruppe . for testing brakes  Measuring fluid pressure  Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/13	1-Punkt Untergruppe	. for measuring the tractive or propulsive power of vehicles
1-Punkt Untergruppe . for measuring ratios of force  1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing G01M)  1-Punkt Untergruppe . for measuring the force applied to control members, e.g. control members of vehicles, triggers  1-Punkt Untergruppe . for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14)  1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  1-Punkt Untergruppe . for testing brakes  Measuring fluid pressure  Measuring fluid pressure  Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/14	1-Punkt Untergruppe	. for measuring the force of explosions; for measuring the energy of projectiles
1-Punkt Untergruppe . for measuring wheel side-thrust (in balancing G01M)  1-Punkt Untergruppe . for measuring the force applied to control members, e.g. control members of vehicles, triggers  1-Punkt Untergruppe . for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14)  1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  1-Punkt Untergruppe . for testing brakes  Measuring fluid pressure  Measuring fluid pressure  Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/16	1-Punkt Untergruppe	. for measuring several components of force
1-Punkt Untergruppe for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14)  1-Punkt Untergruppe for determining the characteristic of torque in relation to revolutions per unit of time  1-Punkt Untergruppe for testing brakes  1-Punkt Untergruppe for testing brakes  Measuring fluid pressure  Measuring fluid pressure fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/18	1-Punkt Untergruppe	. for measuring ratios of force
1-Punkt Untergruppe for determining value of torque or twisting moment for tightening a nut or other member which is similarly stressed (arrangements in wrenches or screwdrivers B25B 23/14)  1-Punkt Untergruppe for testing brakes  1-Punkt Untergruppe for testing brakes  Measuring fluid pressure  Measuring fluid pressure  Measuring fluid pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/20	1-Punkt Untergruppe	. for measuring wheel side-thrust (in balancing G01M)
stressed (arrangements in wrenches or screwdrivers B25B 23/14)  G01L 5/26  1-Punkt Untergruppe . for determining the characteristic of torque in relation to revolutions per unit of time  G01L 5/28  1-Punkt Untergruppe . for testing brakes  Measuring fluid pressure  Measuring fluid pressure  Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/22	1-Punkt Untergruppe	. for measuring the force applied to control members, e.g. control members of vehicles, triggers
G01L 5/28  1-Punkt Untergruppe  Measuring fluid pressure  Measuring fluid pressure  Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/24	1-Punkt Untergruppe	
Measuring fluid pressure  Measuring fluid pressure  Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/26	1-Punkt Untergruppe	. for determining the characteristic of torque in relation to revolutions per unit of time
G01L 7/00  Hauptgruppe  Measuring the steady or quasi-steady pressure of a fluid or a fluent solid material by mechanical or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)	G01L 5/28	1-Punkt Untergruppe	. for testing brakes
or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se G12B 1/04)			Measuring fluid pressure
G01L 7/02 1-Punkt Untergruppe . in the form of elastically-deformable gauges	G01L 7/00	Hauptgruppe	or fluid pressure-sensitive elements (transmitting or indicating the displacement of mechanical pressure-sensitive elements by electric or magnetic means G01L 9/00; measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; measuring tyre pressure or the pressure of other inflated bodies G01L 17/00; vacuum gauges G01L 21/00; hollow bodies deformable or displaceable under internal pressure per se
	G01L 7/02	1-Punkt Untergruppe	. in the form of elastically-deformable gauges

Symbol	Тур	Titel
G01L 7/04	2-Punkt Untergruppe	in the form of flexible, deformable tubes, e.g. Bourdon gauges
G01L 7/06	2-Punkt Untergruppe	of the bellows type
G01L 7/08	2-Punkt Untergruppe	of the flexible-diaphragm type
G01L 7/10	2-Punkt Untergruppe	of the capsule type
G01L 7/12	3-Punkt Untergruppe	with exhausted chamber; Aneroid barometers
G01L 7/14	4-Punkt Untergruppe	with zero-setting means
G01L 7/16	1-Punkt Untergruppe	. in the form of pistons
G01L 7/18	1-Punkt Untergruppe	. using liquid as the pressure-sensitive medium, e.g. liquid-column gauges
G01L 7/20	2-Punkt Untergruppe	involving a closed chamber above the liquid level, the chamber being exhausted or housing low-pressure gas; Liquid barometers
G01L 7/22	2-Punkt Untergruppe	involving floats, e.g. floating bells
G01L 7/24	2-Punkt Untergruppe	involving balances in the form of rings partly filled with liquid
G01L 9/00	Hauptgruppe	Measuring steady or quasi-steady pressure of a fluid or a fluent solid material by electric or magnetic pressure-sensitive elements; Transmitting or indicating the displacement of mechanical pressure-sensitive elements, used to measure the steady or quasi-steady pressure of a fluid or fluent solid material, by electric or magnetic means (measuring differences of two or more pressure values G01L 13/00; measuring two or more pressure values simultaneously G01L 15/00; vacuum gauges G01L 21/00)
G01L 9/02	1-Punkt Untergruppe	. by making use of variations in ohmic resistance, e.g. of potentiometers
G01L 9/04	2-Punkt Untergruppe	of resistance strain gauges
G01L 9/06	2-Punkt Untergruppe	of piezo-resistive devices
G01L 9/08	1-Punkt Untergruppe	. by making use of piezo-electric devices
G01L 9/10	1-Punkt Untergruppe	. by making use of variations in inductance
G01L 9/12	1-Punkt Untergruppe	. by making use of variations in capacitance
G01L 9/14	1-Punkt Untergruppe	. involving the displacement of magnets, e.g. electromagnets
G01L 9/16	1-Punkt Untergruppe	. by making use of variations in the magnetic properties of material resulting from the application of stress
G01L 9/18	1-Punkt Untergruppe	. by making use of electrokinetic cells, i.e. liquid-containing cells wherein an electric potential is produced or varied upon the application of stress
G01L 11/00	Hauptgruppe	Measuring steady or quasi-steady pressure of a fluid or a fluent solid material by means not provided for in group G01L $7/00$ or G01L $9/00$
G01L 11/02	1-Punkt Untergruppe	. by optical means [6]
G01L 11/04	1-Punkt Untergruppe	. by acoustic means [6]
G01L 11/06	2-Punkt Untergruppe	Ultrasonic means [6]
G01L 13/00	Hauptgruppe	Devices or apparatus for measuring differences of two or more pressure values
G01L 13/02	1-Punkt Untergruppe	. using elastically-deformable members or pistons as sensing elements
G01L 13/04	1-Punkt Untergruppe	. using floats or liquids as sensing elements

Symbol	Тур	Titel
G01L 15/00	Hauptgruppe	Devices or apparatus for measuring two or more pressure values simultaneously
G01L 17/00	Hauptgruppe	Devices or apparatus for measuring tyre pressure or the pressure in other inflated bodies ( specially adapted for mounting on vehicles or tyres B60C 23/00; connection of valves to inflatable elastic bodies B60C 29/00)
G01L 19/00	Hauptgruppe	Details of, or accessories for, apparatus for measuring steady or quasi-steady pressure of a fluent medium insofar as such details or accessories are not special to particular types of pressure gauges
G01L 19/02	1-Punkt Untergruppe	. Arrangements for preventing, or for compensating for, effects of inclination or acceleration of the measuring device; Zero-setting means (for aneroid barometers G01L 7/14)
G01L 19/04	1-Punkt Untergruppe	. Means for compensating for effects of changes of temperature
G01L 19/06	1-Punkt Untergruppe	. Means for preventing overload or deleterious influence of the measured medium on the measuring device or vice versa
G01L 19/08	1-Punkt Untergruppe	. Means for indicating or recording, e.g. for remote indication
G01L 19/10	2-Punkt Untergruppe	mechanical
G01L 19/12	2-Punkt Untergruppe	Alarms or signals
G01L 19/14	1-Punkt Untergruppe	. Housings
G01L 19/16	1-Punkt Untergruppe	. Dials; Mounting of dials
G01L 21/00	Hauptgruppe	Vacuum gauges
G01L 21/02	1-Punkt Untergruppe	. having a compression chamber in which gas, whose pressure is to be measured, is compressed
G01L 21/04	2-Punkt Untergruppe	wherein the chamber is closed by liquid; Vacuum gauges of the McLeod type
G01L 21/06	3-Punkt Untergruppe	actuated by rotating or inverting the measuring device
G01L 21/08	1-Punkt Untergruppe	. by measuring variations in the transmission of acoustic waves through the medium, the pressure of which is to be measured $\frac{1}{2}$
G01L 21/10	1-Punkt Untergruppe	. by measuring variations in the heat conductivity of the medium, the pressure of which is to be measured
G01L 21/12	2-Punkt Untergruppe	measuring changes in electric resistance of measuring members, e.g. of filaments; Vacuum gauges of the Pirani type
G01L 21/14	2-Punkt Untergruppe	using thermocouples
G01L 21/16	1-Punkt Untergruppe	. by measuring variation of frictional resistance of gases
G01L 21/18	2-Punkt Untergruppe	using a pendulum
G01L 21/20	2-Punkt Untergruppe	using members oscillating about a vertical axis
G01L 21/22	2-Punkt Untergruppe	using resonance effects of a vibrating body; Vacuum gauges of the Klumb type
G01L 21/24	2-Punkt Untergruppe	using rotating members; Vacuum gauges of the Langmuir type
G01L 21/26	1-Punkt Untergruppe	. by making use of radiometer action, i.e. of the pressure caused by the momentum of molecules passing from a hotter to a cooler member; Vacuum gauges of the Knudsen type
G01L 21/28	2-Punkt Untergruppe	using torsional rotary measuring members
G01L 21/30	1-Punkt Untergruppe	. by making use of ionisation effects (tubes therefor H01J 41/02)
G01L 21/32	2-Punkt Untergruppe	using electric discharge tubes with thermionic cathodes
G01L 21/34	2-Punkt Untergruppe	using electric discharge tubes with cold cathodes

		901L
Symbol	Тур	Titel
G01L 21/36	2-Punkt Untergruppe	using radioactive substances
G01L 23/00	Hauptgruppe	Devices or apparatus for measuring or indicating or recording rapid changes, such as oscillations, in the pressure of steam, gas, or liquid; Indicators for determining work or energy of steam, internal-combustion, or other fluid-pressure engines from the condition of the working fluid
G01L 23/02	1-Punkt Untergruppe	. mechanically indicating or recording and involving loaded or return springs
G01L 23/04	1-Punkt Untergruppe	. involving means subjected to known counteracting pressure
G01L 23/06	1-Punkt Untergruppe	. Indicating or recording by optical means
G01L 23/08	1-Punkt Untergruppe	. operated electrically
G01L 23/10	2-Punkt Untergruppe	by pressure-sensitive members of the piezo-electric type
G01L 23/12	2-Punkt Untergruppe	by changing capacitance or inductance
G01L 23/14	2-Punkt Untergruppe	by electromagnetic elements
G01L 23/16	2-Punkt Untergruppe	by photoelectric means
G01L 23/18	2-Punkt Untergruppe	by resistance strain gauges
G01L 23/20	1-Punkt Untergruppe	. combined with planimeters or integrators
G01L 23/22	1-Punkt Untergruppe	. for detecting or indicating knocks in internal-combustion engines; Units comprising pressure-sensitive members combined with ignitors for firing internal-combustion engines
G01L 23/24	1-Punkt Untergruppe	. for measuring pressure in inlet or exhaust ducts of internal-combustion engines
G01L 23/26	1-Punkt Untergruppe	. Details or accessories
G01L 23/28	2-Punkt Untergruppe	Cooling means
G01L 23/30	2-Punkt Untergruppe	Means for indicating consecutively positions of pistons or cranks of internal-combustion engines in combination with pressure indicators
G01L 23/32	2-Punkt Untergruppe	Apparatus specially adapted for recording pressure changes measured by indicators (apparatus for recording steady or quasi-steady pressure G01L 19/08)
G01L 25/00	Hauptgruppe	Testing or calibrating of apparatus for measuring force, torque, work, mechanical power, or mechanical efficiency [2]
G01L 27/00	Hauptgruppe	Testing or calibrating of apparatus for measuring fluid pressure [2]
G01L 27/02	1-Punkt Untergruppe	. of indicators