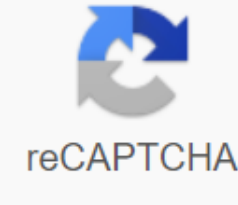




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## Simbologia neumática din ISO 1219

Academia.edu no longer supports the Internet Explorer. To browse the Academia.edu and the wider Internet faster and more securely, please take a few seconds to update the browser. Academia.edu cookies to personalize content, adapt ads, and improve user experience. Using our website, you agree to our collection of information using cookies. To find out more, review our privacy policy . . . Pneumatic symbolism under UNE-101 149 86 (ISO 1219 1 and ISO 1219 2), which was adopted in Spain as the UNE-101 149 86 standard, is responsible for presenting symbols to be used in pneumatic and hydraulic circuits. In this unit we will adhere only to this standard, although there are other rules that complement the previous ones and should also be known. Pneumatic Symbols Connection and Measuring and Operational Devices. To get started with the characters shown below, both pipelines and measurement and maintenance items are presented. Pneumatic chain symbols: When creating pneumatic diagrams, the placement of different elements must be followed by logical order. This improves their understanding and increases the speed of the query. That's the usual way. Items involved in the supply of compressed air should be placed at the bottom. As a rule, compressed air intakes and maintenance units are taken into account. At a higher stage, elements are placed to provide signals for the machine to start or install. Here are track valves with pushbutton, proximity switches, etc... Signal processing valves are on the third level. These are the air conditioning elements of the operation desired in the pneumatic system. There are track valves, selector valves, pressure valves, etc. ... On the fourth level, the distributor's valves are introduced, which are air-powered pneumatic drives. They are also called power valves. Finally, at the top level are pneumatic drives along with controls from them, such as 2/2 track valves or throttles with built-in anti-return, to regulate speed. The relevant control valves and controls are named and presented in accordance with their constitution, so that the number of tracks (entrance or socket holes) is specified and then the number of positions. One position. Two positions. Three positions. For example: a 2/2 valve with two two positions. The valve is 3/2 Three-finished valve and two positions. Valve 5/3 Valve valve with five-currency and three positions. Valve four-way, two positions. Its representation follows the following rules: 1.- Each position is squared. 2.- Indicated in each box (square),

pipelines, flow direction and position of connections (roads). 3.- The valve paths are drawn in the resting position. 4.- Moving to work is cross-sectional, until the pipelines coincide with the tracks in the new position. 5.- The type of control that changes the position of the valve (pilot signal) is also indicated. It can be manual, by spring, under pressure ... For example: Air circulating from 1 to 2 Air circulating from 3 to 4 Cross Impact indicates that air passage is not allowed. The filled point indicates that the pipelines are connected. The triangle indicates a situation of air leakage over the valve. The exhaust gases of the air are equipped with a threaded hole, which allows you to attach a silencer if desired. Full valves: 2/2 of manual activation valve with lock control and mechanical spring return. 3/2 valve with pressure activation and mechanical spring return. The standard establishes the identification of valve holes (paths), you must follow the following standard: You can have numerical or alphabetical identification. Connection designation Letters No. 2, 4, 6 ... Communication pressure, power P 1 exhaust, returns R, S, T ... 3, 5, 7 ... Download L-connection control X, Y, ... 10,12,14 ... For example: A full view of the valve can be: 3/2 of the valve manned under pressure. 5/2 pressure valve. No text content! Antonio Bueno Technology Didactic Unit: Pneumatic and Hydraulic Symbolism COURSE 4th ESO Author: Antonio Bueno Juan 1Technology Antonio Bueno Didactic Group: Pneumatic and Hydraulic SymbolismINDEX1.- Standard UNE-101 149 86 (ISO 1219 1 and ISO 1219 2).- Designation of compounds, Basic Performance Standards.3.- Connections and measuring and performance devices.4.- Pumps and compressors.5.- Mechanisms (drives).6.- Directed valves.7.- Drives.8.- Valve locking, Flow and Pressure.9.- Other Elements.10.- Activity.1.- UNE-101 149 86 (ISO One Position.1219 1 and ISO 1219 2). Internationally, ISO 1219 1 and ISO Two Positions.1219 2, which was adopted in Spain as the UNE-101 149 86 norm, is responsible for three positions representing symbols to be used in pneumatic and hydraulic diagrams. For example: Valve 2/2 Two-wheel valve and twoin this unit we will stick only to the standard lacted, although there are other standards that the positions complement the previous one, and that should also be known. This: Valve Standard Description Triple valve and two positions 101-101-85. UNE pressure range 101-149-86. The five-wheel-water VALVE UNE 101-360-86 Valve 5/3 and three graphic symbols. Position. The diameters of the cylinders and valves are 4/2 of the four UNE supports 101-362-86 and the two piston stems 101-363-86. Position. The cylinders of the base range 101-365-86 normal pressure. His presentation follows the following rules: The main series of piston blows. 1.- Each position is squared. Cylinders. Measurements and types 2.- Specified in each box (square), strands of piston stems. channeling, the direction of the flow and the position of the connections (paths). To know all the characters in detail, so 3.- The valve tracks are drawn in how the presentation of new characters should rest the position.see rules in full.2.- The purpose of the connections, the basic rules of submissionS and control valves, are named and presented in accordance with their constitution, in which the number of roads (entrance or socket holes) is indicated, and then the number of positions. 2Technology Antonio Bueno4.- Moving to the working position for example: Full performance across materializes them, until the valves are:channels coincide with the tracks in the newposition. Valve 3/2 manned on5.- The type of control that pressure also indicated.modifies valve position (pilot signal). It can be manual, by spring, under pressure ... 5/2 pressure valve. For example: Air running from 1 to 2 Air circulates from 3 to 4 3.- Connections and measurements and maintenance tools. The cross-stroke indicates that air passage is not allowed. To get started with the symbols shown below, as the fill point is presented, indicates that pipelines and measurement elements and pipelines are connected. Service. The triangle indicates a situation of air leakage over the valve. The Compound Symbol Air Exhaust is facing a threaded hole that allows you to attach a tubular joint. silencer if desired. Crossing the chimney. Full valves: Hose. Rotator connection. 2/2 manually activated valve by controlling the power line. mechanical locking and return to spring. Muffler. 3/2 valve with pressure activation and mechanical return of the pressure source, hydraulic, spring. Pneumatic. The pressure connection is closed. The standard establishes the identification of valve holes (pathways), you have to follow the next pressure line with connection.standard: Fast communication without retention, you can have numerical identification or coupled.alphabetical. Fast pair with hold, The Connections of the Letter of the No. 2, 4, 6 ... Disconnected closed line. Working connections A, B, C ... 1 No threaded exhaust. Threaded exhaust. Communication pressure, P 3, 5, 7 ... Back to tank.power supply 10,12.14 ... Escapes, returns R, S, T ... Download L Controller Connections X, Y, ... 3Technology Antonio Good differential sensor. Operational unit. Mechanical joint, rod, cam, etc. Maintenance unit, filter, electric motor. regulator, lubricant. Simplified graphics. Internal combustion engine. Pressure control valve, relief pressure regulator, adjustable measurements and maintenance. Character description filter and regulator combination. Service unit, filter combination, regulator and lubricant. Common symbol. Filter. A combination of a filter, a fog separator and a regulator. Condensation drainage, manual emptying. Thermometer. Condensation drainage, Flowmeter. automatic emptying. Volume meter. Filter with capacitor, automatic emptying. Optical indicator. Pneumatic indicator. Filter with capacitor, manual emptying. Sensor. A filter with an indicator of accumulation of impurities. Lubricator. The temperature sensor. Dryer. Fluid level sensor. Foggy separator. Flow sensor. Temperature limiter. 4.- Pumps and compressors. Refrigerator. Micronic filter. Symbol Description of one side of the hydraulic pump flow. Pressure gauge. 4Technology Antonio Bueno Hydraulic Pump Flow Single Variable cylinder. effect, administered by a two-headed hydraulic pump flow. spring, the air pressure to return. One-act cylinder, spring stroke (spring), return of air pressure. The hydraulic flow of the pump is a single-directional variaibe cylinder. Effect, simple anti-force shank, spring blow, hydraulic pressure return with air. pump and engine. One-act cylinder, simple anti-force shank, spring air compressor (spring), compressed. return to the air pressure. Double tank cylinder. A common symbol. effect, a simple stem. Hydraulic tank. An air tank. Two active cylinder, single stalk.5.- Mechanisms (drives). Double cylinderSimbol description effect, simple anti-motor shank. One spectacular cylinder, a return to the outer cylinder with double force. effect, a simple anti-ageing stem. One spectacular cylinder, a return to the outer cylinder with double force. effect, a simple rear stump mounting the stem. Double cylinder, double stem. Single-cylinder two spectacular cylinder, return for effect, double stem. Doc. Single-cylinder two-cylinder, return for effect, double spring stalk. Antigiro. Double cylinder, stem 5Technology Antonio Bueno Double effect cylinder differential cylinder. effect, with an integrated flow regulator, a single barrel position cylinder. Few. A two-cylinder two-cylinder cylinder with a no shank effect controller. integrated flow speed, double stem. The eponymous angular clip of the aperture. The double effect of clamping the opening cylinder without a stem, parallel to a simple magnetic drag. Effect. A two-cornered diaphragm is a two-cornered cylinder clamp with effect. final depreciation on the one hand. Double cylinder Double effect parallel opening clip, with effect. adjustable damping at both ends. The double cylinder pressure multiplier is the same effect with the medium. adjustable damping at both ends. Double the cylinder multiplier effect, with double pressure for different stems, with the means. adjustable damping at both ends. Double transducer cylinder for different medium effect. Pneumatic. Hydraulic. The double cylinder pneumatic engine has one effect, with a dual direction of rotation. hydropneumatic stem. Pneumatic Engine 2 Hydraulic. sense of queuing. The cylinder with the swing 2 cylinder is readable. Stem feelings of rotation. Simple. A cylinder with racing reading, with a brake. A simple shank. Two spectacular cylinder, with a lock, one stem. 6Technology Antonio Bueno Valve 4/2. Hydraulic engine 1 direction of rotation. Valve 4/2 in a normally closed position. Hydraulic engine 2 direction of rotation. Valve 3/3 hydraulic cylinder in sloping 1 direction of rotation, return neutral usually spring. Closed. Adjustable hydraulic pump/motor. Valve 4/3 in neutral position usually6.- Directed valves. Closed. Description of the Valve 4/3 symbol in a neutral exhaust position. Valve 2/2 in a normally closed position. Valve is 2/2 in a 4/3 valve position in a usually open position. central area with circulation. 2/2 seat valve in Valve 5/2. usually a closed position. Valve is 3/2 in a 5/3 valve position in a normally closed position. usually closed. Valve is 3/2 in a 5/3 valve position in a usually open position. usually open. Valve 4/2. Valve 5/3 in the exhaust pipe. 7Technology Antonio Bueno Under pressure pneumatic.7.- Discs. Hydraulic piloting. With the valvein the same valve may appear several piloting, these symbols, they are also known with hydraulic piloting. With the valve name of the pilot elements. Piloting. Basic character schemes: Hydraulic pressure. Symbol Description Management Guide in general, pushbutton. Click, screen, control 8.- Valve lock, stream and guide. Pressure. Leverage control, manual control. Pedal control, manual control. Valve Description Key control, manual control. Lock valve Lock control, control (anti-return). Manually. Doc, mechanical control. A manned control valve. Pe and Pa - Close. A manned control valve. Pa and Pe - Close. Probe, mechanical control in Valve O (OR). Selector. Total. Probe roller, Fast exhaust valve control. Mechanical. Anti-return valve. Squamous roller, fast exhaust valve, anti-return valve, dual drive in one direction, effect with muffler. Y valve (AND). mechanical control. Electromagnetic control with a calibrated hole. The first is the coil. The symbol is fixed, the second electromagnetic control with adjustable. two coils act the other way around. Strangulation. The first symbol is fixed, the second is adjustable. Combined control with a solenoid valve and a valve with one movement up to the diaphragm. Piloting. Pressure control. With pneumatic piloting of the throttle valve. Unidirectional. The anti-return valve is regulated in one direction by Antonio Bueno Throttling valve feeding in getting a nozzle. anti-return with a pneumatic barrier, with a double feed flow regulator in receiving a nozzle. Instant connection. Pneumatic amplifier 2 stages. The two-go valve is a throttle of the flow. Thread distribution. Vacuum pusher. Pneumatic pulse oncoming valve, vacuum blowing. pneumatic or manual return. Differential counter. Vacuum pusher. 10.- Valve activity. The vacuum is blowing with a built-in muffler. 1.- Draw the characters in the respective Spaces Limiting Valve. Pressure. The air compressor of the pneumatic motor direction of rotation limits the valve pressure manned. Pressure sequence valve. One spectacular cylinder that regulates the Valve 3/2 valve, usually two-part pressure. closed spring return, active (pressure reduction). pushbutton and return on the three-ready pressure of the spring adjusting valve. (reducing pressure). The O Pneumatic Unit is a maintenance pressure multiplier. Manual drive. A pneumatic pressure switch. Pneumatic pressure switch.9.- Other elements. 2.- The name of each of these symbols indicates. There are other characters that are not represented in the standard, but are also often used. Below you can see some of them. Character leaks restriction sensor. Proximity sensor by reflection. Pneumatic barrier, no feed when receiving nozzle 9 Technologist Antonio Bueno 10 10

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