

PNEUMATICS



Technical choices, selection of the materials, machining operation and testing of the finished product. At Bonesi Pneumatik, everything is evaluated and realized with a sole objective: the duration in the time at the worst working conditions.

BERNARDINO CORRIELLI

RELIABILITY, FIRST OF ALL

A concrete example are the directional control valves with poppet construction. Such valves were developed in Europe during the years fifty as an alternative to the spool valves designed and developed mainly in the North American continent. Also in Italy significant evolutions were carried out, very appreciated and still alive in actual productions.

The poppet construction in comparison to the spool one has several advantages: from the reduced dimensions of the valves to the higher flow capacity, to the quickest operating timing and a strong construction useful to be used also in the most hard environments like the sector of oil & gas and energy; furthermore, such valves are less sensible to the possible impurities in

the air, if not properly filtered and lubricated. The limitation, that in any case can be overcome, is in the double stable position operations, possible to be realized with proper circuiting.

Some versions

Among the range of Bonesi Pneumatik such valves, in the standard version with aluminium body, are available in the size of 1/8", 1/4", 1/2", 3/4" and 1" for functioning whether with compressed air or with vacuum.

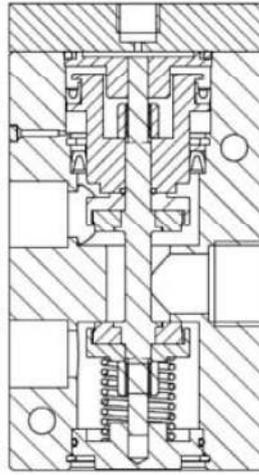
According to the various types they are available in the functions 2/2NA, 2/2NC, 3/2NA, 3/2NC and 5/2.

The models manual operated are available with 1/8" port or for 4 mm. tubing; the models mechanical operated are available with 1/8", 1/4" and 1/2" ports; the models pneumatic operated in line mounting and those

solenoid operated 5W and 8W are available on all the range from 1/8" to 1"; those for manifold mounting whether pneumatic operated or solenoid operated 2.5W, 5W and 8W up to 1/2".

Regarding the flow capacities of the Bonesi Pneumatik poppet valves, pneumatic and solenoid operated, they are definitively higher than the average with value at 6 bar of 1.200 l/min for the 1/8" versions up to 18.500 l/min for the 1".

The three ways poppet valves in the version pneumatic operated are appreciated in the field Oil & Gas and Energy; in fact, the construction particularly strong of the body, realized from aluminium barrel or in stainless steel AISI 316L and the several options of special versions available (for low



Rendering of the poppet valve and the drawing of the internal.



The five sizes in pneumatic version. In the front page the same in solenoid version.

temperature down to -40°C and for high temperature up to $+150^{\circ}\text{C}$, the version "copper free", the versions NPT threaded) offer valid and reliable solutions on applications of control of the pneumatic piloting of actuators and valves for fluids. Furthermore, the Company realizes

poppet valves with special dimensions of the body and/or special port inlets developed in order to integrate them in control groups designed by the User.

Experience and reliability

The Made in Italy is one of the strengths of Bonesi Pneumatik, historical Company in the field of components for industrial pneumatic automation. Established in 1953, since it draws designs, produces in its production unit in Legnano (MI) and distributes its products nationally and internationally. The internal design department allows to satisfy all the requirements arising from the market, in short timing with competitive prices.

The constant attention to the quality of the components and to the machining operations give to the range a very good reliability and high performances with long duration in the time at the worst working conditions.

The Company offers a wide range of manual valves, mechanical, pneumatic and solenoid operated whether for mounting in line or on basis, several series of cylinders to satisfy



Version with the body in stainless steel.



High automation and automatic control distinguish the production unit of Bonesi Pneumatik.

the needs of the OEM, FRL units and the most requested circuit accessories. Among the above products arise the following crowning achievements: a complete range of Pneumo-hydraulics Control Units, tested for several years through applications all over the world and validated by patents deposited in the seventies years; a series of CNOMO cylinders, among the first to be developed in Italy.

During 2015 the relaunch of the Company initiated with the increase of its headquarter up the actual indoor 4.000 mq, the introduction of two vertical warehouses able to locate a total of 4.000 items, the increase of the technical production and marketing staff, the developing of new products and the restyling of the most significant already in the range. In July 2017 they got from authority Bureau Veritas the certification ISO 2001:2015.

In the production Unit of Bonesi Pneumatik operates 25 CNC some of them subservient by anthropomorphous robots, automatic machine tools for the cutting of the profiles, an advanced plant for epoxy paintings, in addition to the not less important toolings for assembling and testing, washing and/or finishing of the machined pieces and printing laser machineries for the useful correct and complete display of the data, always more requested.

B. Corrielli, marketing Bonesi Pneumatik.