



Beta News



New Plastic Bodied Valves Announced



ACL have announced a new range of plastic bodied direct acting solenoid valves. These valves are notable both for their use of new materials and for the number of different pipe connection styles available.

Manufactured in Amodel polyphthalamide a semi-crystalline engineering polymer these valves provide a lower cost alternative to

stainless steel types. This material is suitable for food use and is approved by WRc, NSF and KTW. Compatible with hot water and steam, the Amodel is resistant to the build up of calcium making it suitable for applications such as espresso and cappuccino coffee machines. For the solenoid operator ACL have chosen to use a proven design but with armatures made from IMRE stainless steel which gives better resistance to the build up of deposits than standard 430F stainless steel. The armature tube is manufactured in brass with an electroless nickel-plated finish.

A feature of the new valves that increases their versatility is that they are offered with the option of five different types of pipe connection including (see picture from left to right) 1/8" G male thread, spigot, hosetail, compression & push-in (not shown).

The range includes 2-way and 3-way normally closed and normally open types.

A choice of seal material is available: NBR, Viton or EPDM, with WRc & DVGW approved materials available on request.

The valve orifice is available in sizes from 1.5mm to 4mm, depending on the type of connection

At a glance:

- Plastic food grade solenoid valves
- Direct acting
- 2-way and 3-way, normally closed and normally open types.
- Choice of pipe connections

New RO Controller from SIATA



Beta Valve can now supply a new cost-effective controller designed for reverse osmosis water purification applications.

Taking inputs from level sensors mounted in the RO water service tank the Aqua RO Micro controls the production of RO water according to demand by operating the service pump and inlet solenoid valve as required. The Aqua RO Micro also offers an automated rinse cycle designed to flush waste concentrate to drain. Both the duration of the rinse cycle and the period between rinses are easily pre-set using internally mounted DIP switches.

The RO Micro is mounted in an IP65 sealed PVC housing and operates from a 230v ac supply.

For more detail go to: <http://www.betavalve.com/controllers.htm>

At a glance:

- Controller for simple RO applications.
- Takes signals from two level switches the controller operates service pump and inlet solenoid valve.
- Automated rinse cycle.

Inside this Issue:

- Low cost actuated diaphragm valves
- More latching solenoid valves
- Valve controller for irrigation
- Supplier news
- Easy to install air systems
- New versatile water meter
- Faster filters
- Vertical water meters
- Meet the team - personal profiles of our staff

Hydraulically Actuated Low Cost Plastic Diaphragm Valve Range



Beta are now stocking the new hydraulically actuated versions of the RPE Terza series of plastic solenoid valves, available in sizes from 1/2" - 2" BSP these valves can be used with external air or water pressure sources to control them. The valves are normally open.

A typical application would be as service valves on industrial water treatment plant.

When actuated with water, a manual override can be fitted which allows the valve to be opened when a control signal is present. The Hydraulically actuated Terza valves are ideal for use with the E305AB10/S universal 3/2 solenoid valve also available from Beta.

The valve body is manufactured from glass filled nylon with Buna seals. The valves are designed for use at pressures up to 10 bar.

At a glance:

- Pneumatically or hydraulically operated
- Normally open
- 1/2" - 2" BSP



New Latching Valves From ACL

Latching versions of their established 105 and 107 series solenoid valves have been launched by ACL.

The 115 series comprises a range of direct acting 1/8" BSP valves with orifice sizes from 1.2 to 3.1 mm diameter.

The 117 series of pilot-operated servo-assisted valves cover port sizes from 3/8" BSP to 1" BSP.

To operate the valve a 15-millisecond electrical pulse is required. To close the valve a second pulse with reversed polarity is applied. For maximum flexibility these valves are available with a choice of 3v, 6v, 9v, 12v and 24v coils.

The 115 series includes valves with a maximum differential pressure of 20 bar, while the 117 valve will operate with a supply pressure of up to 8 bar with a 2 watt coil or at up to 15 bar with a 5 watt coil.

The valves are intended for a variety of battery-powered applications such as water savers and urinal flushing but the availability of versions with Buna, EPDM or Viton seals means that they are suitable use with other media.

At glance:

- Designed for battery powered equipment
- 1/8" - 1" versions
- Seals to suit most common media at up to 20 bar

Universal Irrigation Controller For Solenoid Valves



RPE have produced a compact battery powered electronic timer that attaches directly to the solenoid valve it is controlling. Named the "Facile" this new unit is intended to provide a simple method of directly controlling watering in parks, public and private gardens.

The Facile combines the electronic timer and the solenoid pilot operator in a single compact moulding. The availability of mounting adapters means that the Facile can also be used with other popular makes of irrigation valve including Hunter and Rainbird.

The system is compatible with both traditional and drip irrigation systems, it allows a watering time to be pre-set to 3, 10, 15 or 40 minutes with a cycle time of 12, 24, 48 or 96 hours. For added control the unit can be connected to an external rain sensor to inhibit watering when it is not required, ideal for the UK's unpredictable climate!

At a glance:

- Standalone controller for irrigation solenoid valves.
- Universal adapter for common irrigation valves.
- Rain sensor input to inhibit unnecessary watering

Quicker deliveries for Cintropur filters



By using an exclusive rotating vane, Cintropur filters include centrifugal pre-filtration to separate large particles in the liquid flow and direct them into the lower bowl while smaller particles are captured by the filter sleeve. This extends filter life and reduces the pressure loss across the filter.

Now to improve availability of this innovative range of filtration products we will be increasing our stock of Cintropur housings, elements and spares.

This should ensure that all the most popular parts are readily available.

SUPPLIER NEWS

Euromag purchase

Dalia – Israel. Arad are now consolidating their position as a world-wide supplier of water meters by completing the full purchase of the Italian electromagnetic flow meter manufacturer Euromag.

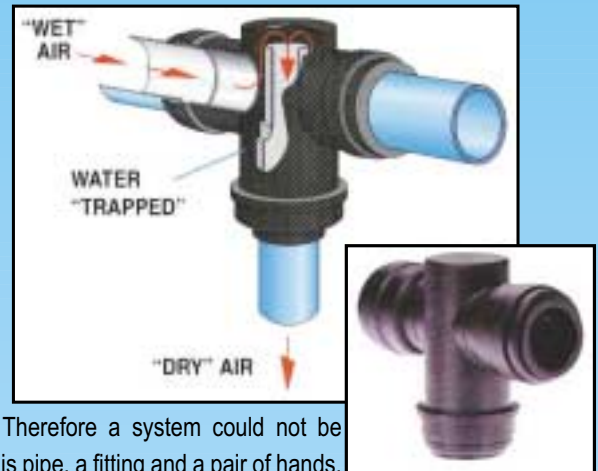
EM meters currently constitute almost 8% of Arad's total group sales and are expected to grow in importance as the technology is more widely adopted.

Crouzet Launch Zenion

Cedex – France. Crouzet France has launched a new range of sub-miniature solenoid valves for pneumatic control applications. The new valves offer 3/2 functionality and are just 8-mm wide. The new valves are truly modular – extra valves can be inserted into the stack without any extra hardware. In keeping with Crouzet's existing Modbus® and Profibus® products strong fieldbus support is a feature of the new range. For their size the new valves offer a flow rate of 230l/min matching conventional valves. UK roll out scheduled for March 2002.

Easy Installation of Air Line Ring Mains

Much reduced installation time and the elimination of the effects of corrosion on air tools are two of the main advantages of using the new John Guest Push-Fit Fittings when installing an Air Line Ring Main Systems.



Pushing the pipe into the fitting is all that is required to make a permanent airtight connection. Therefore a system could not be easier to install, all that is needed is pipe, a fitting and a pair of hands.

The unique, patented John Guest locking collet does the rest. The pipe is held firmly in place without restricting flow. Sealing is provided with a special Nitrile rubber 'O' ring.

There is no need to prepare threaded pipe or apply solvent and wait for it to dry. By using John Guest fittings the system is ready for immediate use. Because the fittings are also easy to disconnect, alterations and extensions to a system can be achieved with a minimum of production downtime.

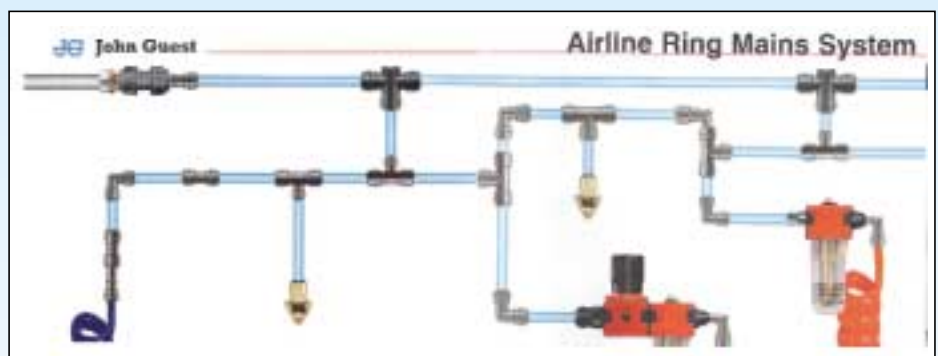
The Air Line Ring Main fittings are manufactured from tough engineering plastic or from brass in a wide range of configurations to suit 12, 15, 18 and 22-mm diameter tubing.

The range of fittings includes a special Water Trap Tee, which solves the problem of moisture in a ring main system, providing an easy alternative to "Swan Necks". An ingenious internal arrangement allows air to flow whilst retaining moisture to be drawn off at a suitable location.

John Guest also produce a complementary range of rigid unplasticised nylon tubing especially suitable for Air Ring Main systems.

At a glance:

- Easy to fit and modify with reduced reliance on specialist staff.
- Reduced production down time
- Reduced corrosion and damage to air tools or instruments.



Personal profiles



Ian Sparrowhawk

Prior to founding Beta in 1983, Ian had a long association with the solenoid valve world having work for both a solenoid valve distributor and a major valve manufacturer.

Out of hours Ian is involved in bell ringing, amateur dramatics and the local town twinning association. His appreciation of the finer things in life is

shown by his fondness for jellied eels

June Hart



One of Beta's longest serving (suffering?) staff, June is unfortunately a skiing addict who has to fund her expensive habit by working in our accounts department. Happily her off piste time is not limited to sending out statements and chasing reluctant payers for June is also a keen net ball player and line dancer.

FAM - A water Meter With Attitude

Arad have introduced the FAM (Flexible Axis Meter) water meter as a new concept for use in residential, industrial water treatment and commercial H&V water metering installations. The meter features a measuring chamber that can be rotated through 360° allowing the meter register to be kept level whether the FAM is installed on pipework that is horizontal, vertical or any angle in between.



The FAM offers conventional 3/4" BSP water meter couplings or solder joint connections. The use of a dual-purpose plug to replace the measuring chamber during pressure testing or system flushing avoids the use of jumper pipes and disturbing the pipework.

The FAM flow tube ensures a straight pipe run up stream and down stream of the meter for maximum accuracy and multi jet operation is renowned for quiet operation. The FAM is optionally available with either reed switch or phototransistor outputs.

At a glance:

- 3/4" Meter ideal for non-horizontal pipe.
- Blanking plug for flushing.
- Optional electrical output.

PRODUCT SPOTLIGHT

Vertical Water Meters

Because of space constraints it is sometimes desirable to mount water meters vertically but most water meter manufacturers specify horizontal mounting of their meters to maintain accuracy and long meter life. For situations where a meter can't be mounted horizontally, Beta can offer a number of solutions.

Whilst complete flexibility is offered by the FAM (see above) in 3/4", Arad's woltman meters, positive displacement and electromagnetic meters can be mounted in any position and offer a wide range of sizes.

Whatever the type of meter they need to be kept full of water at all times; normally this is achieved by making the water flow upwards through the meter. For accurate operation a straight length of pipe is required 10 diameters before and 5 diameters after the meter.



Beta Valve

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