

Other Products

CEME Solenoid valves

Metal Work Australasia are agents for other Italian companies one of these is CEME S.p.a. who offer a range of fluid control components.

The main products we bring into Australia are the brass bodied industrial diaphragm and stem actuated valves.

CEME solenoid operated diaphragm valves are available from 1/4" to 2" in both direct actuated and indirect (servo) actuated. Stem actuated solenoid valves are available from 1/8" to 1/2".

The range covers valves suitable for use with steam, water, air, gas and light oils at pressures up to 25bar and temperatures up to 150°C. Coils are available in 12V AC/DC, 24V AC/DC, 48V AC/DC, 110V AC/DC, 230V AC and 400V AC.

We also stock a pressure switch and can source some of the more specialised CEME valves if required. One valve we source for a few customers is used in MIG welders to control the gas supply. The valve is rated for flammable gas, has barbed inlet & outlet connections and has a filter on the inlet.



CEME also produce solenoid pumps, rotary pumps and valves designed for coffee machines and domestic equipment. At present we have not found a large market for these in Australia but can source them if required.



The full CEME range can be found at www.cemeeng.com.

If you would like further details then please phone or email our Melbourne or Sydney office.



Next Issue

In the next issue we will be launching a pressure booster and we hope to have an article on a large control system we recently supplied.

If you have any information or ideas that may be useful to our readers or any unusual applications of Metal Work equipment then please do not hesitate to let us know.

Tales from the Workbench

I haven't seen this problem for a while but it highlights the need for staff assembling pneumatic equipment to have a full understanding of how the individual parts work.

This problem was with a bank of solenoid valves that would operate a few times and then the valves would stay open. If left overnight the machine would be OK for a few cycles the next day and then it would stop again. Sounded familiar so the problem was solved over the phone and we ended up with a very happy customer.

Most solenoid valves are servo assisted, that is the solenoid opens a miniature pneumatic valve which in turn pneumatically moves the spool of the main valve. Supply to the miniature (servo) valve is taken from the main air connection to the valve (port 1) and somewhere there is an exhaust from the servo valve.

Many valves have an exhaust directly from the solenoid stem. If using a lubricated air this can cause an issue with oily air escaping, especially in a control cabinet. The alternative is to duct the exhausts away but this makes removing the coils difficult. To resolve this problem some manifolded valves have separate ports for the exhausts from the servo valves so the manifold has a pressure port, two main exhaust ports and several smaller ports.

What had happened was that the installer had plugged the smaller ports because they didn't understand what they were for. This meant that after a couple of switching operations the exhaust gallery had built up a positive pressure and the servo valves couldn't exhaust so the valves remained switched.

Easy to resolve once you know.....

Contact us

For further information on any of the products in the newsletter or Metal Work products in general then please do not hesitate to contact us.

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