Microfluidic Valves

Bukert Life Science releases Microfluidic valves with Twin Power technology, now available in three sizes – 10mm, 16mm, and 22mm. Twin Power technology combines the industry-proven rocker principle with a highly innovative new actuator. This dual-solenoid design allows the use of a smaller valve with lower power consumption and improved reliability, without sacrificing performance.
Smaller, faster, stronger. Twin Power valves have the flow and pressure resistance typically found in larger valves, making them ideal for applications where space is critical or higher performance is needed. The 10mm Twin Power valve is available with an orifice size up to 1.6mm and pressure resistance up to 5bar (73psi). The 16 and 22mm Twin Power valves are available with 3.0mm orifice, with pressure resistance up to 2 bar (29psi) for the 16mm valve and up to 5bar (73psi) for the 22mm valve.

In addition to size reduction, the Twin Power design gives the advantage of integrated power-reducing (“hit and hold”) electronics. This decreases energy consumption by 75 percent and reduces the risk of heat transfer between the coil and the media.

Further benefits of the new Twin Power rocker valves include a more robust separating diaphragm and a low dead volume fluid cavity, resulting in less carryover, better flushability, and better cleanability. By offering high performance wetted materials, such as PEEK, FFKM (Simrez and Kalrez), FKM, and EPDM, Twin Power valves can handle most aggressive fluids without deterioration or loss of performance.

Available in both 2-way and 3-way versions, Burkert’s microfluidic valves with Twin Power technology can replace virtually any standard valves in the marketplace,

reducing space and power consumption without sacrificing reliability or performance.

Burkert Life Science
www.burkert-usa.com [1]

Source URL (retrieved on *12/11/2013 - 10:50pm*):
http://www.mdtmag.com/product-releases/2012/05/microfluidic-valves

Links:
[1] http://www.burkert-usa.com/