Electro-Magnetically Actuated Checkvalve

The patented Sapphire Engineering Electro-Magnetically Actuated Checkvalve (EMAC) is especially well suited to high pressure applications where traditional gravity or spring loaded check valves may limit precision and life span. The robust checkvalve cartridge design allows the electro-magnetically driven ball to actuate in the direction of choice in under 5 msec. The EMAC operates with 0.7W of input power and actuation voltage of 3.5 Volts. The product has been tested to over 70 million cycles and is pressure rated to 6,000 psi (414 bar)*. Wetted materials are 316 stainless steel, PEEK™ polymer, alumina oxide ceramic and zirconia ceramic. Internal volume is 20nL. This product fits most standard checkvalve ports.

For more information on this product, please contact your Scivex representative or the Sapphire Engineering™ Division.

* The EMAC can only actuate when inlet and outlet pressure across the valve are equal.

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