



Tom Parker Ltd
Life Sciences Division

Connect & Control

Fluid Solutions for Life Sciences & Special Applications



Humphrey®

Solenoid Valves



MINIATURE CARTRIDGE STYLE VALVES

- 10 & 12 mm CSV Series designed for versatility & performance in tight spaces
- Multi-purpose 3-port function
- High-flow poppet design seals tight
- Vacuum to 30 psi air or inert gases



DIAPHRAGM SEPARATED, AGGRESSIVE MEDIA VALVES

- iDP 300, 350 & 370 Series
- Designed for difficult gas & liquid chemicals & cleaners
- 2-port & 3-port, inline & manifold mount models
- 0 to 40 psi pressure range liquid
- Successfully applied in clinical diagnostics, analytical chemistry & dialysis



PRESSURE BALANCED HIGH FLOW POPPET VALVES

- Featuring streamlined Balanced Valve Series
- 15, 19 & 25 mm sizes
- High-flow poppet design seals tightly
- Vacuum to 125 psi air or inert gases
- 3-port & 4-port inline & manifold mount models
- Multi-purpose functionality
- IP67 protection models available for difficult environments
- Large flow capacity, from 0.15 to 1.2 Cv



MINIATURE DIAPHRAGM POPPET SOLENOID VALVES

- HK5 Series – Pneumatic; HKL5 Series – Low pressure liquids
- Multi-purpose 3-port function
- Compact 12 mm width & up to 85 SLM flow
- Symmetrical porting is flexible, with many options
- The design eliminates seal wear
- Alternative media & purity applications are possible

Proportional Valves



PROCONTROL™ SERIES

- Miniature PV3 & PV10 & small PC30 Series
- Deliver variable output flow from corresponding current to solenoid
- Calibrated flow from upstream standard pressure settings of 25, 50, 75 or 100 psi
- Precise control via direct current or PWM
- Excellent resolution & low hysteresis



PROCONTROL™ SERVOID SERIES

- Large flow capacity & unmatched precision control
- Pressure Balanced type – unaffected by unstable upstream pressure
- Excellent turndown ratios, cycle repeatability & low hysteresis
- Control via direct current or PWM
- Reputable in medical technology & critical care patient ventilation systems



STEPPER OPERATED, DIAPHRAGM ISOLATED, AGGRESSIVE MEDIA VALVES

- MiDP S390 Series designed to precisely control the variable flow of aggressive media & high flow while using minimal power
- Field-proven & reliable diaphragm-separated body construction of the Humphrey 350 Series iDP Valves
- 2-port inline & manifold mount models
- Outstanding repeatability & low hysteresis



PROCONTROL™ VALVE DRIVER

- Connect the power supply & control any proportional valve 1 amp or less
- Interface valve to data acquisition voltage or current signals, or PWM
- Pre-settings for Humphrey models
- Custom settings for others
- Excellent for evaluation & convenient control of proportional valves

Valves & Valve Systems to Your Specific Requirements



Tom Parker Ltd are delighted to announce our partnership with Humphrey Products. This allows us to distribute an outstanding line of quality solenoid and proportional valves to the UK, providing our customers with even more product solutions and market-leading brands.

Humphrey's product range spans various industries, such as medical devices, healthcare rehabilitation, analytical instrumentation, transportation, general industry, and factory automation and is a welcome addition to our comprehensive range.

Humphrey has been a leading innovator and manufacturer since 1901, based in Kalamazoo, Michigan. They are a privately held company that proudly serves the global market through over 100 authorised distributors. Tom Parker Ltd is now an authorised

distributor of Humphrey products in the UK, offering fast and reliable delivery for their standard valve configurations.

Humphrey's Engineered Solutions Group provides comprehensive services for designing, developing, and producing fluid handling and pneumatic solutions for OEM equipment and device manufacturers. Their highly skilled team can help where standard catalogue components are not specific enough for the application requirements. Their specialty lies in creating valve systems that are engineered to the needs of the project at hand.

For these specialised applications, your Tom Parker Ltd Fluid Solutions Specialist will work closely with the Engineered Solutions team at Humphrey. They are ready to assist in configuring and tailoring a valve specifically from their range of proven sealing and actuation technologies.

Working alongside your Fluid Solutions Specialist from Tom Parker Ltd, Humphrey will create a custom solution tailored to your application's unique requirements. They utilise cutting-edge design techniques and incorporate trusted valve technology to produce a cost-effective, logical product solution. With their extensive experience in manufacturing processes and design tools, you can trust that Humphrey will provide you with a high-quality and reliable solution.

Tom Parker Ltd are here to provide expert personalised technical product advice. When choosing the most suitable valve for your application, please don't hesitate to contact our Fluid Solutions Specialists. They are on hand to help provide recommendations from their wealth of industry expertise, amassed from more than 50 years of experience in fluid power.

With over 9,000 valve configurations, Humphrey offers many innovative solutions.

- Product images & specifications
- CAD viewer
- Downloadable CAD models
- Related items & accessories



Humphrey®

