

## Industrial Inkjet Printing: Making your ink flow

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**bürkert**  
FLUID CONTROL SYSTEMS



# Making your ink flow

## Perfect for ink, tailored to your needs

### Flowing ink, creating beauty

Ink creates beauty. It's an art form capturing creativity, colour and life. Ink surrounds us being printed on virtually any surface and shape. You will find print on metal, plastics, textile, glass, ceramics, or wood rendering an infinite number of applications. Whether ink is decorating mobile phone cases, colouring huge windowpanes or patterning fashionable apparel – customers expect print to be vibrant in colour, accurately delivered and supremely durable. Dense and opaque layers without ink degradation are the core of any durable creation.

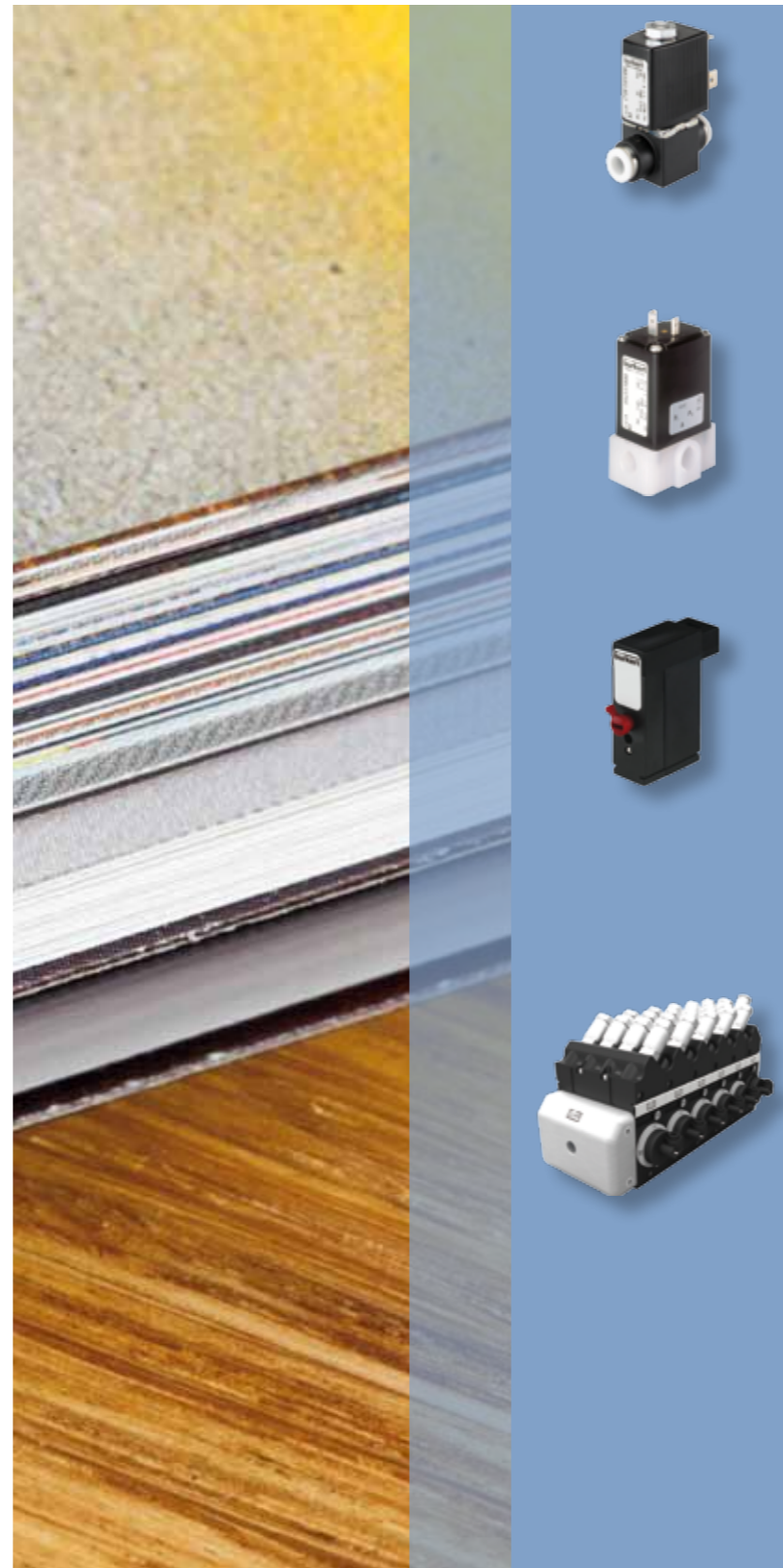
As printing is more and more integrated into industrial production processes, exciting growth opportunities and complex challenges arise. Mass customisation trends inevitably require full production performance and on-demand flexibility. Luckily, inkjet's versatility enables print integration into tough environments involving high temperature, moisture, and frequent job changes.



At Bürkert, we believe in understanding customer needs along the entire value chain. Whether it's pro-active printer users or industrial printer manufacturers, we focus on providing value – flexible and close to you. Our fluid experts create advantageous solutions – from our broad production-ready component variety, to highly customised fluidic systems. Build upon Bürkert's application experience within the inkjet printing sector. Printer manufacturers across Europe, USA and Asia rely on us and our solutions, making your ink flow.

### Product variety

No need to worry: Bürkert's solenoid valve variants are stunningly durable. Our in-house moulding processes master materials like peroxide cross-linked EPDM, plus our separating flowing media technologies will give you highest chemical resistance to ink and solvent. No blocking, no dried ink, and residue-free flushability. Please see opposite for highlights from our maintenance-free, fast-switching, light and compact valves.



### The basic performer

From our broad variety, types 6011 and 6012 best suit water-based inks. Well-established technology providing high life cycles. Maintenance-free just like our other valves shown here.

### Going bigger for ink flow

Type 0124 – with a nominal diameter between 2.0 and 5.0mm and pressure up to 16bar (232psi) – is still as resistant and fast-switching as our other media-separated solenoid valves.

### Longest durability

Type 6144 easily manages 100 million operations thanks to the flipper principle. Diameter of 0.6mm, only 10mm wide. Up to 10bar (145psi). Print head compatible due to its small size.

### Tailored to your needs

You will essentially benefit from our customisation competence, since Bürkert draws on expert knowledge from diverse segments and industries. We duplicate fluidic applications from one to another, driving vital innovations. Our dedicated world-class engineers develop and deliver systems tailored to your needs. Bürkert's Systemhaus teams are flexible, open minded and empowered people able to listen and communicate in your language. Systemhaus locations in Germany, USA and China strengthen our global understanding with cultural diversity and an every-day innovation environment – making us close to you. Bürkert has built up 60 years of technical excellence providing reliability and personal care into every customised system.

### Duplication advantage

A paint changer's application is to switch between colour and cleanser flows, resembling ink change on a different scale. We draw application experience from its design. Based on diverse system projects, we are able to generate value-added solutions ahead of the competition, quickly and flexibly. Do you need to cool ink-curing UV lamps? Our gas flow control systems will fit here. Do you need to precisely dose ink or solvent? Our dosing units can be easily integrated. Discover Bürkert's full potential: flexible at work, experienced in what's needed and close to you.



### Inkjet valve institution

Inkjet manufacturers rely on type 0127. With 0.8-1.6mm in nominal diameter, pressure up to 6bar (87psi), supreme flushability and a media-separating diaphragm it's perfect for ink.

### Range extender

Type 6628 extends 0127 to a nominal diameter of 2.0/3.0mm and pressure up to 5bar (72psi) within a compact design. Equally resistant to corrosive liquids as well as FDA conform.

### More minimum

Type 6624 is only 10mm wide, 50% smaller, and needs 75% less energy – but stays powerful at the same time! Nominal diameter of 0.8/1.6mm at optimised flushability performance.