

## TECH TALK

# Inside Innovation:

## A CONVERSATION WITH JORDAN BERKEL ON NORDSON MEDICAL'S DIVERT™ ULTRA LINE OF ULTRA-HIGH-PRESSURE STOPCOCKS

As medical procedures become more advanced, the demands placed on fluid management components continue to increase. From high-pressure balloon inflation to complex interventional procedures, clinicians need devices that deliver both exceptional performance and ease of use. To learn more about how Nordson MEDICAL is addressing these challenges, we spoke with Jordan Berkel, Senior Product Line Manager, about the development of Nordson MEDICAL's Divert™ ULTRA line of Ultra-High-Pressure Stopcocks and what sets it apart from conventional solutions.

### OVERVIEW

**Q** Jordan, can you start by telling us about your role at Nordson MEDICAL?

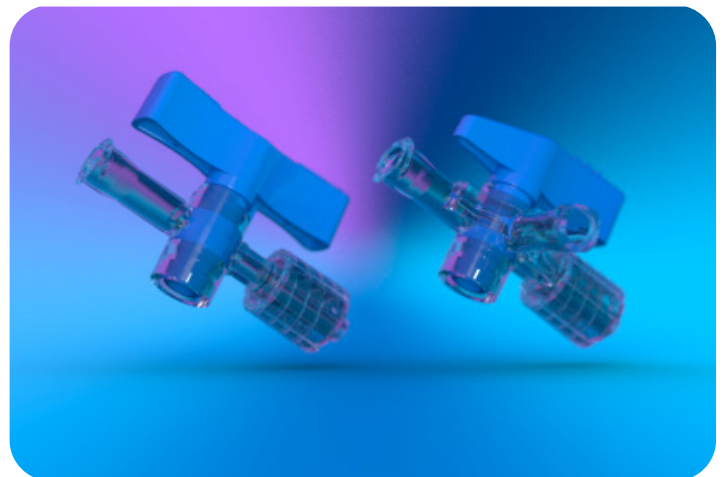
**A** Absolutely. I'm Jordan Berkel, Senior Product Line Manager at Nordson MEDICAL. I've spent the last 12 years with the Fluid Components division in a variety of roles across different sites. Today, I manage our medical-surgical product portfolio, which includes flow control products, luers, and quick connects. My role involves strategic planning, portfolio management, and leading new product development efforts from initial concept through commercialization and launch.

**Q** For readers who may be unfamiliar with the product, what is Nordson MEDICAL's Divert™ ULTRA line of Ultra-High-Pressure Stopcocks?

**A** Nordson MEDICAL's Divert™ ULTRA line of Ultra-High-Pressure Stopcocks was developed to provide the highest operating pressure rating available in the market while maintaining exceptional usability. It's designed for demanding medical applications that require extreme pressure performance, but we also wanted to address the user experience. The result is a stopcock that combines industry-leading pressure capabilities with ergonomic handling and ease of operation.

### Expertise That Drives Innovation

- Flexible, OEM-ready components supporting a wide range of medical device applications
- Comprehensive portfolio of fluid management and flow control solutions for medical applications
- High-performance fluid management solutions designed for reliability under demanding conditions



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# The Divert™ ULTRA Advantage

## WHAT'S THE STORY OF DIVERT™ ULTRA?

**Q** What challenges in today's medical device market led to the development of this product?

**A** We're seeing significant advancements in medical and surgical technologies, particularly in areas like balloon inflation. As procedures become more sophisticated, devices often need to operate at increasingly higher pressures to achieve desired clinical outcomes. Traditional stopcocks weren't necessarily designed with these evolving requirements in mind. We recognized an opportunity to develop a solution that could support next-generation applications while improving usability for clinicians.

**Q** How does Nordson MEDICAL's Divert™ ULTRA line of Ultra-High-Pressure Stopcocks differ from conventional stopcocks currently on the market?

**A** The most significant difference is its pressure capability. Many stopcocks are designed for lower-pressure applications, whereas Divert™ ULTRA stopcocks are engineered specifically for demanding procedures requiring extreme pressure performance. At the same time, we've focused heavily on ergonomics. Despite its high-pressure rating, the handle torque remains exceptionally low, giving users a smoother and more intuitive experience compared to many traditional designs.

**Q** What are the key performance benefits of the Divert™ ULTRA line of Ultra-High-Pressure Stopcocks?

**A** The standout feature is the industry-leading 1500 psi (102 atm) pressure rating. What's particularly exciting is that we've achieved this without sacrificing ease of use. The handle requires less torque to operate than many industry-standard low-pressure stopcocks. We've also incorporated larger, ergonomically optimized handles that improve control and comfort during procedures. Together, these features make Divert™ ULTRA stopcocks both highly capable and exceptionally user-friendly.

**Q** How does the design contribute to reliability and patient safety?

**A** Ease of use plays a major role in safety. When a device is intuitive to operate, there's less opportunity for user error during critical procedures. Additionally, all luer ports are fully compliant with the latest ISO 80369-7 standard, ensuring safe, reliable, and globally recognized connections. This combination of ergonomic design and standards compliance helps support confidence in clinical settings.

**Q** Which applications are the best fit for Nordson MEDICAL's Divert™ ULTRA line of Ultra-High-Pressure Stopcocks?

**A** These stopcocks are ideally suited for high-pressure applications, particularly medical balloon inflation procedures where elevated pressures are becoming increasingly common. However, their performance characteristics also make them a strong choice for a variety of surgical and interventional procedures where reliability and pressure tolerance are critical.

**Q** How does the product support OEMs and device manufacturers during development?

**A** We designed the stopcock with flexibility in mind. The ergonomic handle design benefits a wide range of users and procedures, while the ISO 80369-7 compliant luer connections make the product suitable for global markets. We've also incorporated design features that support applications such as ganged stopcock manifolds and both low- and high-pressure systems. Combined with medical-grade materials, these considerations help OEMs integrate the product into diverse device platforms.

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# The Divert™ ULTRA Advantage

## QUALITY YOU CAN TRUST

**Q** Are there any manufacturing or engineering features that set the product apart?

**A** Yes. The stopcocks are manufactured entirely from medical-grade materials and are molded and assembled in an ISO 14644 Class 8 cleanroom environment. We also avoid the use of mold release agents and water during production. These measures help ensure a high level of product purity and consistency, which is especially important for medical applications.

**Q** What feedback have you received from customers evaluating the product?

**A** The feedback has been overwhelmingly positive, particularly regarding the handle design. Customers frequently comment on how much easier the larger ergonomic handles are to use compared to traditional stopcocks. One of the most common responses we hear is, "Why hasn't somebody done this sooner?" That's exactly the type of reaction we hoped for when developing the product.

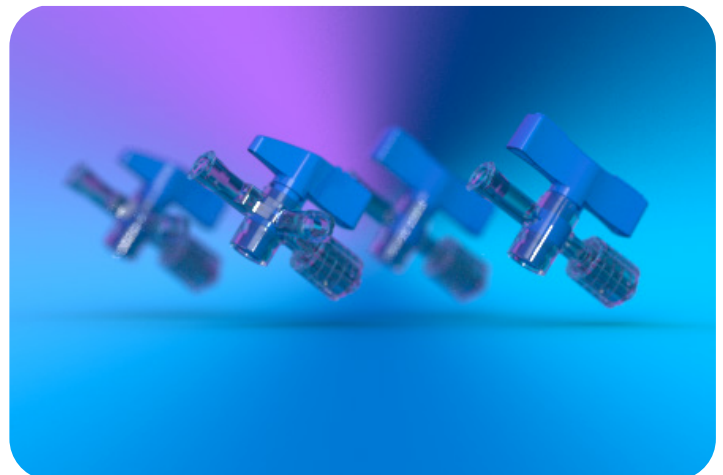
**Q** How does this stopcock fit within Nordson MEDICAL's broader portfolio?

**A** The Divert™ ULTRA stopcock is a natural extension of our existing Divert™ flow control portfolio. It complements our broader offering of stopcocks and fluid management components, giving customers access to both standard and advanced solutions. As part of Nordson MEDICAL's comprehensive fluid components portfolio, it helps address a wide range of medical device requirements.

## LEARN MORE & REQUEST SAMPLES

**Q** Where can customers learn more or request evaluation samples?

**A** Customers can visit [nordsonmedical.com](https://nordsonmedical.com) to learn more about Nordson MEDICAL's Divert™ ULTRA line of Ultra-High-Pressure Stopcocks and explore the complete product portfolio. They can also contact their Nordson MEDICAL representative or key account manager to request additional information and evaluation samples.



### Learn More or Request Samples

To learn more or request samples, reach out to [orders@nordsonmedical.com](mailto:orders@nordsonmedical.com). Discover how Divert™ ULTRA delivers industry-leading pressure performance with exceptional ease of use.

### About Nordson MEDICAL

Nordson MEDICAL is a global expert in the design, development, and manufacturing of complex medical device components. We serve fluid components, interventional, and surgical markets with technologies that save or enhance lives. As an integrated, single-source partner, we enable our customers to save costs and speed time to market.

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