

ON-Q*

Pain Relief System

AVANOS

WE TAKE PAIN PERSONALLY



**ON-Q* IS
INDICATED FOR:**
Significantly less need
for narcotics.
Better pain relief than
narcotics alone.

SURGICAL FAMILY OF PRODUCTS



"My patients benefit from ON-Q* therapy because the catheters provide local anesthetic directly to the chest wall and axilla where acute and neuropathic pain occur. This results in a direct analgesic effect by placement of the medication onto the area of dissected tissue and nerves."

Rita Hadley, MD, PhD, General Surgeon, Miami Valley South Hospital - Dayton, OH

THE ON-Q^{*} PAIN RELIEF SYSTEM

ON-Q^{*} is a postoperative, non-narcotic pain relief system designed to deliver local anesthetic to the surgical site through specially designed catheters—providing patients with up to 5 days of targeted pain relief.

WITH THE ON-Q^{*} PAIN RELIEF SYSTEM, PATIENTS:

- Went home an average of 1.1 days sooner¹⁻⁴
- Reported up to 69% lower pain scores⁵⁻⁶
- Were up to 3x as likely to report high satisfaction scores^{4,7-8}
- Are more likely to experience better pain management with fewer side effects^{1,7,9}

WITH ON-Q^{*}, CLINICIANS MAY REDUCE:

- Postoperative pain and nausea^{1,9}
- Recovery time¹⁻⁴
- Risk of infection¹⁰⁻¹³—pumps are single use, one pump per patient
- Unplanned hospital admissions following outpatient procedures^{14,15}



ON-Q* ELASTOMERIC PUMPS

ON-Q* FIXED FLOW RATE PUMPS*

- Deliver a steady flow of local anesthetic that bathes the surgical site for up to 5 days
- Available with single, dual and triple catheter applications





ON-Q* PUMP WITH SELECT-A-FLOW*

Contains a variable rate controller that enables the flow rate to be changed according to patients' individual pain relief requirements.

- Available in single or dual configurations with two variable flow rate ranges
- Rate-changing key may be removed to discourage tampering
- Available in 1mL/hr to 7mL/hr and 2mL/hr to 14mL/hr

ON-Q* PUMP WITH ONDEMAND*

Incorporates a bolus device, which allows for breakthrough pain relief on demand by the patient or healthcare provider. The pump also delivers a continuous infusion (basal).



ON-Q* TUNNELING SYSTEM

ON-Q* tunnelers provide flexibility to enhance catheter placements for optimal outcomes and are ergonomically designed with a customized grip for ease of manipulation.

- Blunt tip allows for deeper blind access while minimizing risk of needle-stick injury
- Accompanying disposable T-Peel Introducer Sheath guides the catheter to its location
- Available in standard tunneler and fluid tunneler options



Tunneler Family



Tunneler Sheath Close-Up



Tunneler Tips



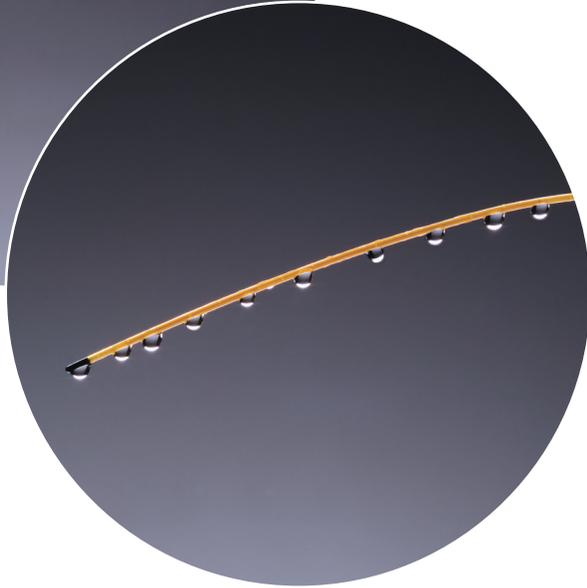
Disposable Fluid Tunnelers

ON-Q* CATHETERS



ON-Q* SOAKER* CATHETER

Patented design provides for an even distribution of local anesthetic for optimal post-op pain relief.

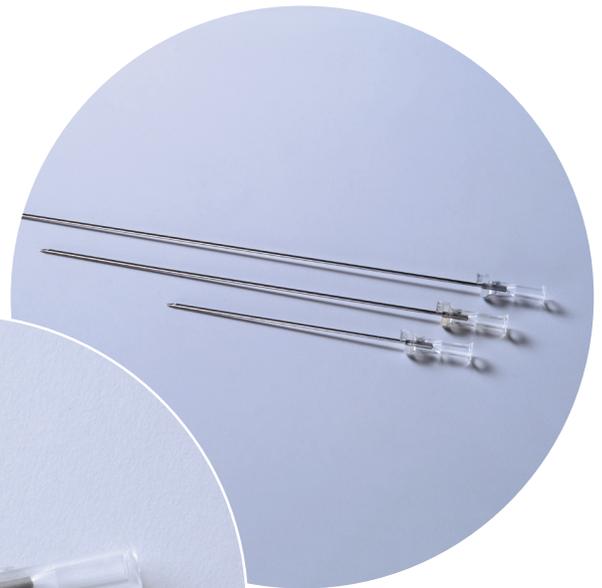


ON-Q* SILVERSOAKER* CATHETER

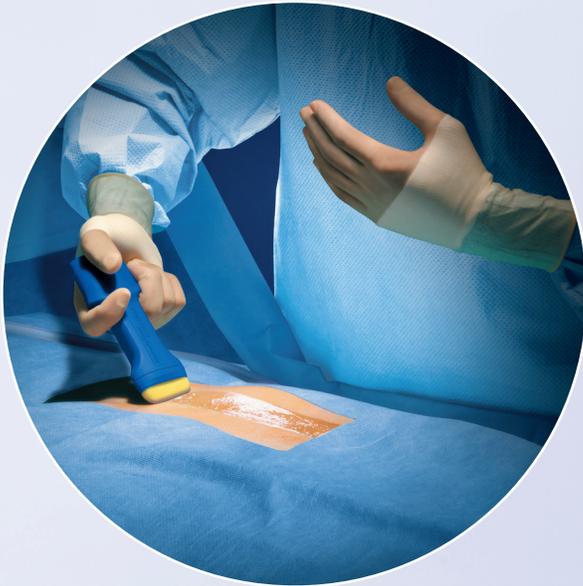
Same signature design as the ON-Q* Soaker* Catheter with the added benefit of an antimicrobial silver coating.

ON-Q* INTRODUCER NEEDLES

Indicated for precise access into open incisions. Available in 3.25 in, 6 in and 8 in configurations.



INTEGUSEAL* MICROBIAL SEALANT



- Film-forming microbial sealant provided in a ready to use applicator
- Reduces the rate of skin flora contamination throughout a surgical procedure
- Applied by the surgical team during the prep phase

IS 200

Large incisions
Coverage area: 10 in x 20 in

IS 100

Small-to-medium incisions
Coverage area: 10 in x 10 in



ON-Q* ELASTOMERIC PUMPS

Model	Fill Volume x Flow Rate	Delivery Time (in days)	Per Package
ON-Q* PUMP ONLY MODELS			
P100X2	100 mL x 2 mL/hr	2	5
P100X2D	100 mL x 2 mL/hr Dual (1 mL/hr per site)	2	5
P270X2	270 mL x 2 mL/hr	5	5
P270X4	270 mL x 4 mL/hr	3	5
P270X5	270 mL x 5 mL/hr	< 3	5
P270X4D	270 mL x 4 mL/hr (dual; 2 mL/site)	3	5
P400X4	400 mL x 4 mL/hr	4	5
P400X5	400 mL x 5 mL/hr	3	5
P400X4D	400 mL x 4 mL/hr (dual; 2 mL/site)	4	5
P400X6T	400 mL x 6 mL/hr (triple; 2 mL/site)	≤ 4	5
SAF01	270 mL x 1 mL/hr-7mL/hr Select-A-Flow*	Varies	5
P400X2-14	400 mL x 2 mL/hr-14 mL/hr Select-A-Flow*	Varies	5
CB001	400 mL x 5 mL/hr	3	5
CB002	400 mL x 10 mL/hr	2	5
CB004	400 mL x 2 mL/hr-14 mL/hr Select-A-Flow*	Varies	5
CB4007	400 mL x 1 mL/hr-7mL/hr Dual Select-A-Flow*	Varies	5
CB6004	600 mL x 2 mL/hr-14 mL/hr Select-A-Flow*	Varies	5
CB6007	600 mL x 1 mL/hr-7mL/hr Dual Select-A-Flow*	Varies	5

ON-Q* PUMP KITS

Model	Fill Volume x Flow Rate	Delivery Time (in days)	Per Package
ON-Q* PUMP WITH NON SOAKER* (EPIDURAL CATHETER)			
PM002	100 mL x 2 mL/hr	2	5
PM003	270 mL x 2 mL/hr	5	5
PM004	270 mL x 5 mL/hr	< 3	5
PM005	270 mL x 4 mL/hr Dual (2 mL/hr per site)	3	5
PM006	100 mL x 1 mL/hr	4	5
ON-Q* PUMP WITH NON SOAKER* (1 IN MULTIPOINT CATHETER)			
PMB01	270 mL x 2 mL/hr + 5 mL/60-min ONDEMAND*	Varies	5
ON-Q* PUMP WITH 1 IN (2.5 CM) SOAKER* CATHETER			
PM032	100 mL x 2 mL/hr	2	5
PM035	270 mL x 2 mL/hr Dual (2 mL/hr per site)	3	5
PM036	100 mL x 1 mL/hr	4	5
PM039	100 mL x 2 mL/hr Dual (1 mL/hr per site)	2	5
ON-Q* PUMP WITH 2.5 IN (6.5 CM) SOAKER* CATHETER			
PM012	100 mL x 2 mL/hr	2	5
PM013	270 mL x 2 mL/hr	5	5
PM014	270 mL x 5 mL/hr	< 3	5
PM015	270 mL x 4 mL/hr Dual (2 mL/hr per site)	3	5
PM018	400 mL x 4 mL/hr Dual (2 mL/hr per site)	4	5
ON-Q* PUMP WITH 5 IN (12.5 CM) SOAKER* CATHETER			
PM022	100 mL x 2 mL/hr	2	5
PM023	270 mL x 2 mL/hr	5	5
PM024	270 mL x 5 mL/hr	< 3	5
PM025	270 mL x 4 mL/hr Dual (2 mL/hr per site)	3	5
PM026	400 mL x 5 mL/hr	< 4	5
PM028	400 mL x 4 mL/hr Dual (2 mL/hr per site)	4	5
ON-Q* PUMP WITH 10 IN (25 CM) SOAKER* CATHETER			
PM045	270 mL x 4 mL/hr Dual (2 mL/hr per site)	3	5
PM046	400 mL x 5 mL/hr	< 4	5
PM048	400 mL x 4 mL/hr Dual (2 mL/hr per site)	4	5

ON-Q* PUMP KITS (CONTINUED)

Model	Fill Volume x Flow Rate	Delivery Time (in days)	Per Package
ON-Q* PUMP WITH ON-Q* SILVERSOAKER* ANTIMICROBIAL CATHETER			
PM012-A	100 mL x 2 mL/hr	2	5
PM013-A	270 mL x 2 mL/hr	5	5
PM014-A	270 mL x 5 mL/hr	< 3	5
PM015-A	270 mL x 4 mL/hr Dual (2 mL/hr per site)	3	5
PM018-A	400 mL x 4 mL/hr Dual (2 mL/hr per site)	4	5
PM022-A	100 mL x 2 mL/hr	2	5
PM023-A	270 mL x 2 mL/hr	5	5
PM024-A	270 mL x 5 mL/hr	< 3	5
PM025-A	270 mL x 4 mL/hr Dual (2 mL/hr per site)	3	5
PM026-A	400 mL x 5 mL/hr	< 4	5
PM028-A	400 mL x 4 mL/hr Dual (2 mL/hr per site)	4	5
PM032-A	100 mL x 2 mL/hr	2	5
PM036-A	100 mL x 1 mL/hr	4	5
PM045-A	270 mL x 4 mL/hr Dual (2 mL/hr per site)	3	5
PM046-A	400 mL x 5 mL/hr	< 4	5
PM048-A	400 mL x 4 mL/hr Dual (2 mL/hr per site)	4	5

ON-Q* SOAKER* & ON-Q* SILVERSOAKER* CATHETER EXPANSION KITS

Soaker* Model	SilverSoaker* Model	Delivery Time (in days)	Per Package
PM010	PM010-A	Soaker* 2.5 in (6.5 cm), T-Peel Needle 3.25 in	5
PM020	PM020-A	Soaker* 5 in (12.5 cm), T-Peel Needle 6 in	5
PM030	PM030-A	Soaker* 1 in (2.5 cm), T-Peel Needle 3.25 in	5
PM040	PM040-A	Soaker* 10 in (25 cm), T-Peel Needle 8 in	5
-	PM050-A	Soaker* 7.5 in (19.1 cm), T-Peel Needle 8 in	5

INTEGUSEAL* MICROBIAL SEALANT

Model	Description	Per Package
IS 100	10 in x 10 in	20
IS 200	20 in x 10 in	20

ON-Q* TUNNELING SYSTEM

Model	Description	Per Package
ACC07S	Tunneler Sheath 11 GA x 8 in	10
ACC08S	Tunneler Sheath 17 GA x 8 in	10
ACC09S	Tunneler Sheath 11 GA x 12 in	10
ACC10S	Tunneler Sheath 16 GA x 12 in	10
ACC12S	Tunneler Sheath 17 GA x 3.25 in	10
ACC13S	Tunneler Sheath 17 GA x 5 in	10
T17X5	Disposable Tunneler and Sheaths 17 GA x 5 in	5
T17X8	Disposable Tunneler and Sheaths 17 GA x 8 in	5
T17X10	Disposable Tunneler and Sheaths 17 GA x 10 in	5
T16X12	Disposable Tunneler and Sheaths 16 GA x 12 in	5
T11X10	Disposable Tunneler and Sheaths 11 GA x 10 in	5
T11X8	Disposable Tunneler and Sheaths 11 GA x 8 in	5
T11X12	Disposable Tunneler and Sheaths 11 GA x 12 in	5
FT11X12	Disposable Fluid Tunneler and Sheaths 11 GA x 12 in	5
FT11X8	Disposable Fluid Tunneler and Sheaths 11 GA x 8 in	5
FT16X12	Disposable Fluid Tunneler and Sheaths 16 GA x 12 in	5
FT16X8	Disposable Fluid Tunneler and Sheaths 16 GA x 8 in	5

ON-Q* ACCESSORIES

Model	Description	Per Package
ACC01	T-Peel Needle 3.25 in	10
ACC02	T-Peel Needle 6 in	10
ACC03	T-Peel Needle 8 in	10
ACC05	Filling Extension Sets	5
ACC14	Locking Carrying Cases	5

TOP 10 REASONS WE TAKE PAIN PERSONALLY

1. The need for non-narcotic pain management therapy has never been greater.
2. ON-Q* significantly reduces narcotic use and provides better pain relief than narcotics alone.¹⁶
3. Titration means pain management therapy can truly be personalized to the patient and the procedure.
4. We understand how pain relates to HCAHPS, and that improving those scores are a primary concern for our customers.
5. We believe clinical evidence should be a guiding principle in pain management decisions.
6. We emphasize education as one of the keys to creating change and action in narcotic reduction.
7. A reduction in narcotics can reduce length of hospital stays and stay related costs.^{1,17}
8. Reducing the amount of pain a patient experiences after surgery is important to us.
9. The intensity and duration of pain after surgery is unique to each patient.
10. To personalize pain management therapy, you need proven solutions that give you the flexibility to treat all types of patients.

1. Forastiere E, Sofra M, Giannarelli D, Fabrizi L, Simone G. Effectiveness of continuous wound infusion of 0.5% ropivacaine by ON-Q Pain Relief System for postoperative pain management after open nephrectomy. *Br J Anaesth.* 2008;101(6):841-847. 2. White PF, Rawal S, Latham P, et al. Use of a continuous local anesthetic infusion for pain management after median sternotomy. *Anesthesiology.* 2003;99(4):918-923. 3. Dowling R, Thielmeier K, Ghaly A, Barber D, Boice T, Dine A. Improved pain control after cardiac surgery: results of a randomized, double-blind, clinical trial. *J Thorac Cardiovasc Surg.* 2003;126(5):1271-1278. 4. Liu SS, Richman JM, Thirly RC, Wu CL. Efficacy of continuous wound catheters delivering local anesthetic for postoperative analgesia: a quantitative and qualitative systematic review of randomized controlled trials. *J Am Coll Surg.* 2006;203(6):914-932. 5. Sherwinter DA, Ghaznavi AM, Spinner D, Savel RH, Macura JM, Adler H. Continuous infusion of interperitoneal bupivacaine after laparoscopic surgery: a randomized controlled trial. *Obes Surg.* 2008;18(12):1581-1586. 6. Klein SM, Grant SA, Greengrass RA, et al. Interscalene brachial plexus block with a continuous catheter insertion system and a disposable infusion pump. *Anesth Analg.* 2000;91(6):1473-1478. 7. Beaussier M, El'Ayoubi H, Schiffer E, et al. Continuous preperitoneal infusion of ropivacaine provides effective analgesia and accelerates recovery after colorectal surgery. *Anesthesiology.* 2007;107(3):461-468. 8. Heller L, Kowalski AM, Wei C, Butler CE. Prospective, randomized, double-blind trial of local anesthetic infusion and intravenous narcotic patient-controlled anesthesia pump for pain management after free TRAM flap breast reconstruction. *Plast Reconstr Surg.* 2008;122(4):1010-1018. 9. Cansler V, B2B Team. Patient Pain Survey/GMR&A Summary. Study: 26199. July 13, 2012. 10. McCaughey, Betsy. Unnecessary Deaths: The Human and Financial Costs of Hospital Infections. www.hospitalinfection.org p. 6. 11. Falk, P et al. Outbreak of vancomycin-resistant enterococci in a burn unit. *Infection Control and Hospital Epidemiology* 2000;21:575-582. 12. Rothwell et al. Bacterial contamination of PCA and epidural infusion devices. *Anaesthesia* 2009;64:751-753. 13. Wang, J et al. Morphine impairs host innate immune response and increases susceptibility to streptococcus pneumoniae lung infection. *The Journal of Immunology* 2005;174:426-434. 14. Capdevila X, Dadure C. Perioperative management for one day hospital admission: regional anesthesia is better than general anesthesia. *Acta Anaesth Belg.* 2004;55(suppl):1-4. 15. Gold BS, et al. Unanticipated Admission to the Hospital following Ambulatory Surgery. *JAMA* 1989; 262(21):3008-10. 16. Data on file. 17. Zimberg, S. Reducing pain and costs with innovative postoperative pain management. *Managed Care Quarterly.* 2003; 11(1):34-6.



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AVANOS

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1-800-448-3569

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