THE CONTINUOUS WAVE III ARTHROSCOPY PUMP

Clear Vision in Arthroscopic Fluid Management
Take the Stress Out of Fluid Management in Arthroscopy

Sensitive In-Line Pressure Sensing
The unique in-line pressure-sensing system provides instantaneous adjustments to flow levels based on intraarticular pressure changes, providing ideal joint distention throughout the procedure. Pressure and flow levels can be adjusted independently on the pump or from the sterile field with the autoclavable remote for optimum control of fluid dynamics. Clear joint distention is maintained even with aggressive shaving, aspiration and multiple arthroscopy portals.

Set-Up and User Simplicity
Easy main tubing set-up, sensor plug-in and multiple irrigation bag spiking before the first patient is in the room facilitates stress-free preparation for the entire surgical day. The unique ReDeuce™ tubing extension piece is passed off from the surgical field and connected to the main pump tubing for each subsequent arthroscopic procedure. Touchproof connectors, backflow restrictors and sterile caps provide full assurance of tubing and fluid sterility during tubing connection.

Tubing and Fluid Cost Containment
Tubing cost and unused fluid waste are significantly reduced because only the extension tubing piece is disposed of at the end of procedure. The main pump tubing and unused sterile fluid bags, which are in a closed sterile loop, remain maintained on the pump for the surgical day.

Reliability and Safety
Unique digital sensing in the Continuous Wave™ III Arthroscopy Pump displays misuse or malfunction for complete patient safety. It incorporates the latest features and benefits to meet the highest demands of surgeons, surgical nurses and administrators in today’s performance, safety and cost containment hospital and ASC environment.
Advantages of the Continuous Wave III Arthroscopy Pump include a new and improved advanced fluid drive system that maintains distention even during aggressive shaver suction and ACL procedures. Fluid turbulence has been virtually eliminated with a new smooth transition from start to stop, maintaining a stable fluid environment with safe intraarticular pressure. A flush control now allows the pump to provide hemostasis at the touch of a button. An improved noise dampening system allows the pump to operate quietly.

All of these features come together to provide surgeons and the OR staff with a truly unique and stress-free fluid management system.

Pump Stand
The new Continuous Wave III Arthroscopy Pump Stand features a storage basket, a hanger for up to four fluid bags, stable base, rugged construction and a new modern appearance.

Autoclavable Remote Control
The Continuous Wave III Arthroscopy Pump has an optional autoclavable remote that has pressure, flow and on/off functions. The remote also features a flush option that increases pressure by 50% while increasing the flow to 100% while activated.

Continuous Wave III Arthroscopy Pump
AR-6475 Continuous Wave III Arthroscopy Pump

AR-6476 Remote Control for Continuous Wave III Arthroscopy Pump, autoclavable
Pump Tubing Options

Main Pump Tubing
This tubing set is for those who prefer a complete tubing set and want to replace the fluid bags after each case. Each tube set comes with an independently packaged press-fit luer lock to allow for tubing length adjustment if used in conjunction with the Extension Tubing. If used alone, the set must be discarded after each use.

AR-6410 Main Pump Tubing for AR-6400 or AR-6475, 16’ long, sterile, qty. 10

Extension Tubing
This unique tubing provides an economical option to reduce tubing costs by allowing the Main Pump Tubing to remain in use for the entire surgical day. The exclusive backflow valve prevents contaminated fluid from reaching the Main Pump Tubing. The Main Pump Tubing and fluid bags no longer need to be discarded after each surgical case.

AR-6220 Extension Tubing, 8’ long, sterile, qty. 20

Y-Tubing Adapter
The optional Y-Tubing Adapter allows four fluid bags to be attached to either the Main Pump Tubing or the ReDeuce Pump Tubing, resulting in fewer fluid bag changes.

AR-6215 Y-Tubing Adapter, double spike, 2 per set, sterile, qty. 10
ReDeuce™ Pump Tubing System

ReDeuce Pump Tubing
ReDeuce Tubing is a cost-effective two-part tubing system that allows the pump tubing to stay in place through the surgical day. Only the patient tubing is replaced after each case.

AR-6411 ReDeuce Pump Tubing w/connector for AR-6400 or AR-6475, 8’ long, sterile, qty. 10

ReDeuce Patient Tubing
The patient tubing is a two meter extension set that extends from the ReDeuce Pump Tubing to the sterile field. Each ReDeuce Patient Tube set contains a backflow restrictor and touch proof connector to maintain sterility from case to case.

AR-6421 ReDeuce Pump Tubing, 8’ long, sterile, qty. 20

ReDeuce Tubing Features and Benefits:

- The ReDeuce system saves fluid by not requiring the remaining fluid to be discarded after the termination of a surgical case.
- The ReDeuce system saves tubing costs, as the main tubing stays in place through the surgical day. Only the ReDeuce Patient Tubing needs to be replaced for each case.
- The ReDeuce system saves set-up time. Only the Patient ReDeuce Tubing needs to be passed off from the sterile field before each case. The ReDeuce Pump Tubing stays in place the entire surgical day and no additional fluid bags need to be spiked until they are completely empty.

A backflow restrictor reduces the risk of contamination by not allowing fluid to flow back through the tube set toward the Pump Tubing Set.

Touch-proof connectors keep contamination from entering the site where the patient and pump tubing connect.

Independent testing facility verified.
Arthroscope Sheaths

High-flow scope sheaths allow quick response to changes in pressure and flow. Available in Linvatec/Storz/Arthrex, Stryker and Dyonics camera fittings.

AR-3031Q  High-Flow Sheath w/ Stabilizer for 4 mm Arthroscope, one valve, trocar and obturator, quick-lock
AR-3016Q  High-Flow Sheath w/ Stabilizer for 4 mm Arthroscope, one valve, trocar and obturator, quick-lock
AR-3015Q  Arthroscopic Sheath for 4 mm Arthroscope, two valves, quick-lock
AR-3010Q  Arthroscopic Sheath for 4 mm Arthroscope, one valve, quick-lock
AR-3036S  High-Flow Sheath for Dyonics 4 mm Arthroscope, two valve, trocar and obturator, quick-lock
AR-3037S  High-Flow Sheath for Stryker 4 mm Arthroscope, two valve, trocar and obturator, quick-lock
The Bridge Cannula System can be used to maintain portals while moving the arthroscope between portals. When used in conjunction with the Inflow Cannula Adapter, it can be connected to any inflow or outflow tubing. The threaded portion can be used to lock into certain shaver blades.

AR-3032-4.5S Bridge Cannula Set, 4.5 mm, includes:
(4 mm arthroscopes, low-flow)
AR-3032-4.5 4.5 mm Inflow/Scope Cannula, 2 ea.
AR-3033-4.5 Blunt Obturator for 4.5 mm Inflow/Scope Cannula
AR-3034-4.5 Trocar Obturator for 4.5 mm Inflow/Scope Cannula
AR-3035 Inflow Cannula Adapter

AR-3032-5.5S Bridge Cannula Set, 5.5 mm, includes:
(4 mm arthroscopes, high-flow)
AR-3032-5.5 5.5 mm Inflow/Scope Cannula, 2 ea.
AR-3033-5.5 Blunt Obturator for 5.5 mm Inflow/Scope Cannula
AR-3034-5.5 Trocar Obturator for 5.5 mm Inflow/Scope Cannula
AR-3035 Inflow Cannula Adapter

AR-3032-6.5S Bridge Cannula Set, 6.5 mm, includes:
(4 mm arthroscopes, high-flow)
AR-3032-6.5 6.5 mm Inflow/Scope Cannula, 2 ea.
AR-3033-6.5 Blunt Obturator for 6.5 mm Inflow/Scope Cannula
AR-3034-6.5 Trocar Obturator for 6.5 mm Inflow/Scope Cannula
AR-3035 Inflow Cannula Adapter

AR-3035L Inflow Cannula Adapter with Stopcock

The Bridge Connector attaches to the bridge cannula and provides a fitting for an Olympus® TrueView Direct or Olympus TrueView arthroscope. With a two cannula set, the camera can be easily moved from portal to portal with minimal repositioning. The Bridge Connector also attaches to AR-3032-5.5S and AR-3032-6.5S.

WS-1603/1 Bridge Connector for Olympus TrueView II
WS-1603/2 Bridge Connector for Olympus TrueView Direct

The Metal Luer Lock Adapter attaches to any standard luer lock fitting. The hose barb fitting on the reverse facilitates easy attachment of non-luer lock type tubing.

AR-6221 Metal Luer Lock Adapter

The 4.5 mm Flexible Inflow Cannula eliminates potential articular cartilage damage and adapts to knee anatomy to retain inflow/outflow. The Irrigation Cannula Set includes a reusable trocar, obturator and stopcock.

AR-6500S Irrigation Cannula Set Includes:
AR-6501 Valve for Inflow Set
AR-6502 Trocar for Inflow Set
AR-6503 Obturator for Inflow Set
AR-6525 Flexible Inflow Cannula, 4.5 mm x 7.5 mm, qty. 25
The 5.75 mm Crystal Cannula features a distal retaining ring to prevent cannula “fall-out”. The smooth version permits the smallest possible incision. The small outer diameter and the uniquely designed obturator provide maximum control for insertion into small portals. The translucent cannula facilitates arthroscopic visualization of instruments and sutures through the cannula walls. The cannula is molded from durable polycarbonate to minimize suture fraying and breakage and has been designed to eliminate “squirting”. There is an optional 1-Way Stopcock to control fluid outflow or inflow.

AR-6560 Crystal Cannula, 5.75 mm I.D. x 7 cm w/obturator, qty. 5
AR-6562 Crystal Cannula Smooth, 5.75 mm I.D. x 7 cm w/obturator, qty. 5
AR-6561 1-Way Stopcock, w/luer lock
AR-6563 Reusable Obturator for AR-6560, AR-6562, and AR-6564
AR-6564 Crystal Cannula, partially threaded distal end, 5.75 mm x 7 cm, w/obturator, qty. 5
AR-6568 Short Crystal Cannula, 5.75 mm I.D. x 5 cm, partially threaded, sterile, qty. 5 (for small joint arthroscopy only)

The Partially Threaded Cannula allows uninhibited visualization of instruments and sutures through the cannula walls, helping surgeons prevent suture entanglement and allowing visualization of arthroscopic knots as they are delivered down the cannula. The cannula has threads only on the distal section of the cannula, allowing the surgeon to quickly adjust the working length of the cannula.

AR-6566 Partially Threaded Cannula w/No Squirt Cap, 8.25 mm x 7 cm, w/obturator, qty. 5
AR-6567 Partially Threaded Cannula w/No Squirt Cap, 7 mm x 7 cm, w/obturator, qty. 5
AR-6575-09 Partially Threaded Cannula w/No Squirt Cap, 8.25 mm x 9 cm, qty. 5
AR-6575-11 Partially Threaded Cannula w/No Squirt Cap, 8.25 mm x 11 cm, w/obturator, qty. 5
AR-6541 Reusable Obturator for AR-6575-09
AR-6576-11 Reusable Obturator for AR-6575-11
The Clear Instrument Cannula facilitates arthroscopic visualization of instruments and sutures. The distal flange provides a secure means to prevent migration of the cannula. The flange also allows retraction of the capsule to increase visibility of intraarticular anatomy. The cannula comes with a plastic, noncannulated obturator or can be used with a reusable, cannulated obturator which has an ergonomic handle to ease insertion over a 4 mm Wissinger Rod or Switching Stick.

AR-6532 Instrument Cannula, 5.5 mm x 9 cm, qty. 5
AR-6550 Instrument Cannula, 7 mm x 7 cm, qty. 5
AR-6549 Reusable Obturator for AR-6550, purple

The translucent Twist-In Cannula allows direct visualization of instruments and suture passing. Arthroscopic knot tying is simplified since twisted and tangled sutures can be observed and corrected during arthroscopic knot tying. The threaded design greatly inhibits cannula “fall-out” during instrument removal and allows for capsule retraction for visualization. The side port may be used for irrigation inflow or passive outflow.

AR-6530 Twist-In Cannula, 8.25 mm I.D. x 7 cm, qty. 5
AR-6531 Reusable Obturator for AR-6530 and AR-6530-N, gold
AR-6536 Reusable Obturator for AR-6535, green
AR-6540 Twist-In Cannula, 8.25 mm I.D. x 9 cm, qty. 5
AR-6541 Reusable Obturator for AR-6540, blue
AR-6545 Twist-In Cannula, 6 mm I.D. x 9 cm, qty. 5
AR-6546 Reusable Obturator for AR-6545, red
AR-6570 Twist-In Cannula w/ No Squirt Cap, 7 mm I.D. x 7 cm, qty. 5
AR-6549 Reusable Obturator for AR-6570 and AR-6550, purple
**Specialty Sheaths**

**Hip Length Arthroscope Sheath**
- Fits hip length, wide angle 4 mm arthroscope
- Quick-lock connector for secure connection and fast telescope exchange
- High-flow
- Trocar and obturator

AR-3115Q  Hip Length Arthroscope Sheath

**Small Joint Length Arthroscope Sheath**
- Fits small joint 2.7 mm arthroscope
- Quick-lock connector for secure connection and fast telescope exchange
- Two valve
- Trocar and obturator

AR-3015Q  Small Joint Length Arthroscope Sheath

**Olympus TrueView II & TrueView Direct Arthroscope Sheaths**
- Quick-lock connector for secure connection and fast telescope exchange
- Automatic click-connector
- Long-term autoclavability

A70950A  High-Flow Rotating Sheath, 1 stopcock, rotating, for 4 mm TrueView II Scope
A70951A  High-Flow Rotating Sheath, 2 stopcocks, rotating, for 4 mm TrueView II Scope
A70954A  Trocar Spike, triangular, for A70950A or A70951A
A70955A  Trocar Spike, blunt, for A70950A or A70951A
A70959A  Trocar Cover for Lavage, for A70950A or A70951A
A70970A  High-Flow Rotating Sheath, 1 stopcock, rotating, for 2.7 mm TrueView II Scope
A70971A  High-Flow Rotating Sheath, 2 stopcocks, rotating, for 2.7 mm TrueView II Scope
A70974A  Trocar Spike, triangular, for A70970A or A70971A
A70975A  Trocar Spike, blunt, for A70970A or A70971A
WA70050A  High-Flow Rotating Sheath, 1 stopcock, for 4 mm TrueView Direct Scope
WA70051A  High-Flow Rotating Sheath, 2 stopcocks, for 4 mm TrueView Direct Scope
WA70054A  Trocar Spike, triangular, for WA70050A or WA70051A
WA70055A  Trocar Spike, blunt, for WA70050A or WA70051A
WA70070A  High-Flow Rotating Sheath, 1 stopcock, for 2.7 mm TrueView Direct Scope
WA70071A  High-Flow Rotating Sheath, 2 stopcocks, for 2.7 mm TrueView Direct Scope
WA70074A  Trocar Spike, triangular, for WA70070A or WA70071A
WA70075A  Trocar Spike, blunt, for WA70070A or WA70071A
ArthroVac™
The ArthroVac floor system includes a reusable floor suction plate with disposable peel-and-stick felt pads to facilitate removal of excess irrigation fluids in a quiet manner. The ArthroVac is attached to standard operating room suction. The low profile ArthroVac can be placed in the ideal position for optimal performance or moved during surgery using the telescoping handle. The ArthroVac can also be used to facilitate cleaning in between surgeries.

AR-4004  ArthroVac Floor Suction System
AR-4004H ArthroVac Telescoping Handle and Connector
AR-4004P ArthroVac Felt Pads, qty. 10

Suction Regulator
The Suction Regulator provides suction strength adjustment without reducing the inner suction lumen which can cause suction blockage from resected tissue. Precise control is adjusted by sliding the air intake control collar. The suction regulator is fully autoclavable and can be connected anywhere in the suction tubing line.

AR-6600  Suction Regulator

Tibial Tunnel Cannula
The disposable cannula with integrated silicone dam preserves arthroscopic distention by providing a fluid barrier during an arthroscopic ACL or PCL reconstruction. The silicone dam is fenestrated to allow passage of instruments. A reusable obturator is available to aid in cannula insertion and removal. Accommodates 9-12 mm tunnel diameters. Can be cut with scissors 2 cm longitudinally to accommodate smaller tunnels.

AR-1802D Tibial Tunnel Cannula, sterile, qty. 10
AR-1807 Reusable Obturator for AR-1802D

Portal Plug
The Portal Plug is a simple solution to excess fluid loss from multiple arthroscopy portals. The Delrin® Plug is inserted into the portal to prevent excess fluid loss and help retain joint extension. The Portal Plug is fully autoclavable and is easy to insert and remove.

AR-1808  Portal Plug

Tunnel Plug
The Tunnel Plug provides a simple means to plug up bone tunnels created during ACL or PCL reconstruction to retain joint fluid distention and arthroscopic visualization. The tapered plug fits securely into tunnels 8 mm to 12 mm in diameter. Manufactured of autoclavable Delrin.

AR-1258  Tunnel Plug