

# Vascular Flowprobes

Transonic's Vascular Flowprobes measure volume flows intraoperatively in vessels from 0.5 mm to 20 mm to detect blood flow obstructions before leaving the operating room. This ability to correct otherwise undetectable flow restrictions provides the surgeon with a unique opportunity to improve the outcome for his or her patient.



Fig. 1: Handle Flowprobes: FMV-Series and FME-Series sizes from 1.5 mm to 14 mm. The FMV-Series simple J-style reflector defines the ultrasound flow sensing window, holds ultrasound couplant gel in place, and maintains the vessel in alignment with the probe. A flexible neck allows positioning of the probe head to conform to vessel orientation. On vessels where there is concern that compression may loosen calcified plaque, -FME carotid endarterectomy Flowprobes with an L-style reflector can be used.

## Carotid Flowprobes

Carotid Flowprobes offer 7 sizes to accommodate different surgical preferences and patient anatomies. After the target flow is attained and the procedure is completed, the Probe can then be quickly removed. The "L"-reflector Flowprobe design allows the probe to be slipped on and off a carotid artery easily, facilitating quick pre- and post-procedure measurements.

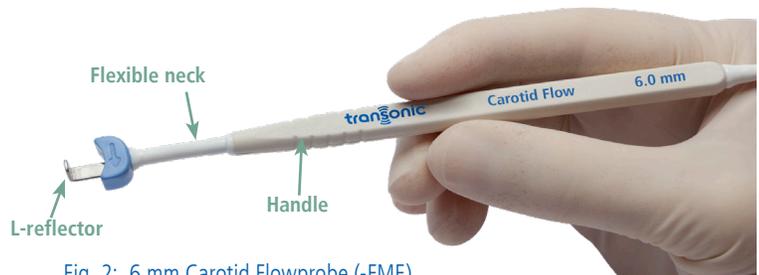


Fig. 2: 6 mm Carotid Flowprobe (-FME)

## Microvascular Flowprobes

Transonic® Microsurgical Flowprobes work with Optima Flowmeters to measure volume flow in vessels or grafts from 0.4 to 3.7 mm diameter. Flow measurement in these vessels during microvascular procedures can guide better surgical decisions and give the surgeon the opportunity to correct otherwise undetectable flow restrictions before closing the patient



Fig. 3: Microvascular Flowprobe Series including 0.7 mm, 1 mm, 1.5 mm, 2 mm, 3 mm Flowprobes.



Fig. 4: Side-by-side comparison of a 0.7 mm Microvascular Flowprobe with a tip of a 25 gauge needle.

# Vascular Flowmeters

Transonic's new Optima® Flow-QC® Flowmeter takes transit-time ultrasound flow measurement resolution to the highest level. The Optima's unprecedented resolution accompanies lower offsets, and doubles the accuracy for low flows.

The Optima® Flowmeter enables use of our Vascular Flowprobes for carotid, AV access and peripheral vascular surgeries. Flowprobes are available in from 0.7 - 14 mm sizes. Their flexible neck permits optimal probe positioning and easy measurement.

- Provides unsurpassed accuracy and resolution
- Ensures inflow, conduit and outflow patency
- Provides immediate, quantitative flow measurements



HT354 Single-channel Optima®Flowmeter



HT364 Dual-channel Optima®Flowmeter permits simultaneous measurements with two Flowprobes.



The AureFlo® system continuously measures, displays, records and documents absolute volume flow and other derived parameters. Shown here with the HT363 dual-channel Optima Flowmeter, it can be used with Transonic's new Microsurgical Flowprobes.