

# AV Access: Vascular Flowprobes

Transonic's Vascular Flowprobes measure volume flows intraoperatively in vessels from 1.5 mm to 14 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.

## OptiMax® Flowprobes

OptiMax® Flowprobes also offer two reflector shapes and five sizes to accommodate different surgical preferences and patient anatomies. The skin tabs secure the Flowprobe so that continuous hands free measurements can guide vascular constructions, banding or revisions. 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.

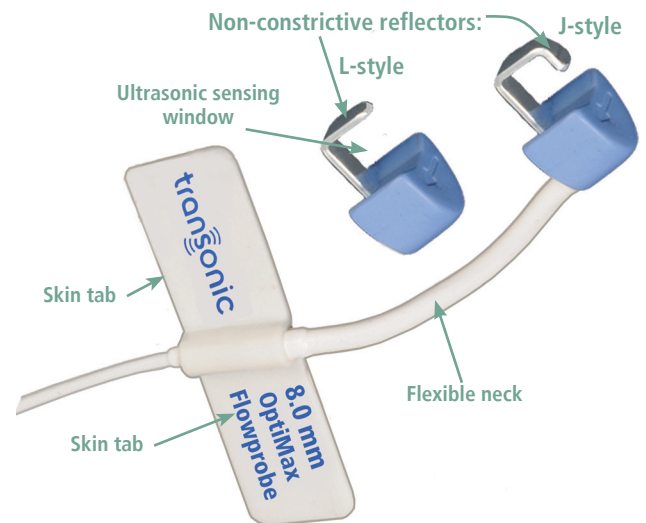


Fig. 2: Anatomy of an OptiMax® Flowprobe.



Fig. 3: The OptiMax® family with J reflectors (shown) and L reflectors (not shown) are available in 4, 6, 8, 10 and 12 mm.

# AV Access: 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 AV access surgery. Flowprobes are available in from 1.5 - 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 new HT353 single-channel Optima Flowmeter.



Transonic Systems Inc. is a global manufacturer of innovative biomedical measurement equipment. Founded in 1983, Transonic sells "gold standard" transit-time ultrasound flowmeters and monitors for surgical, hemodialysis, pediatric critical care, perfusion, interventional radiology and research applications. In addition, Transonic provides pressure and pressure volume systems, laser Doppler flowmeters and telemetry systems.

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