



# Probe Size Suggestions

## Typical Flowprobe Sizes for Research Applications

Please note that these are estimated sizes. Vessel diameters will vary with weight and breed of animal. Surgical approach to vessel site generally determines the most appropriate cable exit orientation for each application. (See pages 8-15 for flowprobe pictures to scale.)

	Acute Application	Chronic Implant
<b>Rat</b>		
Ascending Aorta*	2SB, 2.5SB	2.5S, 3S (lateral or back cable exit, protocol dependent)
Abdominal Aorta	1.5RB	2S
Portal Vein	1.5RB	2S
Renal Artery	0.7V	1RB (mesh recommended to stabilize probe)
Peripheral Vessels	V-Series handle recommended	1R (cable configuration dependent upon vessel site)
<b>Mouse</b>		
Ascending Aorta*	1.0 RB	(under development)
Abdominal Aorta	1 V with handle	
Carotid Artery	.7V with handle	
Renal Artery	.5 V with handle	
Femoral Artery	.5 V with handle	
<b>Rabbit</b>		
Ascending Aorta*	4SB	6S
Renal Artery	2SB	2SB (silicone wrap), 2.5SB
Femoral Artery	2S	2S
Auricular Artery	V-Series	1RB
<b>Dog</b>		
Ascending Aorta	14A - 24A	A-Series or 14SS - 20SS (with silicone shield or Merocel sponge)
Bronchial Artery	1RB	1RB
Circumflex Coronary Artery	2R, 2.5S, 3R	2R, 3R
Intercostal Artery	2 mm	
LAD Coronary Artery	2SB	2RS, 2.5SS (with silicone flange)
Internal Thoracic Artery	3 mm	
Main Pulmonary Artery	16A - 24A	A-Series or 12SS, 14SS, 16SS (with silicone shield);
Pulmonary Vein, Main Branch	6R	6R
Carotid Artery		
Common:	4R	4R
Internal:	2RS	2RS
Inferior Vena Cava	10S, 12S; A-Series	
Superior Mesenteric	4RS	4RS
Hepatic Artery	4R, 4RS	4RS
Portal Vein	8RS; A-Series	8RS
Renal Artery	2RS, 3RS, 4RS	3RS, 4RS (silicone wrap)
Femoral Artery	3R, 4R	3R, 4R
Thoracodorsal Artery	2R	

\* *In situ* calibration is recommended for acute application of S-Series probes on the ascending aorta. A correction factor may be required to meet stated absolute accuracy for S-Series flowprobe used for this application. Relative accuracy of measured changes in flow is  $\pm 2\%$ .

# Research Applications



## Typical Flowprobe Sizes for Research Applications cont.

Pig	Acute Application	Chronic Implant
Ascending Aorta*	16A - 28A	A-Series or 16SS (30 Kilo); 24S, 28S (60 Kilo) (with silicone shield or Merocel sponge)
Pulmonary Artery	20A - 24A	A-Series or 24S (60 Kilo) 8S - 12SB (piglet) (with silicone shield or Merocel sponge)
Hepatic Artery	4S/4R (30 - 40 Kilo)	4S/4R (30 - 40 Kilo)
Portal Vein	10SB - 12SB (30 Kilo);	A-Series or 14SB - 16SB (45 - 70 Kilo);
Mesenteric Artery	4R (15 - 25 Kilo)	4R
Celiac Artery	4R	4R
<b>Sheep</b>		
Main Pulmonary Artery	14A - 24A	A-Series 12SS, neonate lamb 16SS (20 - 30 Kilo yearling) 20SB, ewe (silicone shield)
Thoracic Duct	3R	3R
Bronchial Artery	2R	2R
Carotid Artery	6RB	8RS
Mesenteric Artery	6R	6R
Portal Vein	16SS; A-Series	16SS
Mammary Artery	4R	4R
Ovarian Artery	4R	4R
Uterine Artery	4S - 8S (gestation dependent)	4S - 8S (gestation dependent)
Fetal Umbilical Artery	4S - 6S (gestation dependent)	4S - 6S (gestation dependent)
Fetal Left Pulmonary Artery	4S - 6SB	4S - 6SB
Fetal Iliac Artery	3S, 3R	3S, 3R
Fetal Renal Artery	2R	
<b>Baboon (12 Kilo)</b>		
Carotid Artery		
Common	3R, 4R	3R, 4R
Internal	2R, 3R	2R, 3R
Superior Mesenteric	4R	4R
Renal Artery	3SB	3SB
Uterine Artery	2R	2R
External Iliac Artery	2R	2R
Femoral Vein	4SB	
<b>Cynomolgus Monkey</b>		
Ascending aorta		6SS, 8SS (silicone shield)
Femoral Artery	2SB	
<b>Rhesus Monkey</b>		
Abdominal Aorta		6S, 8S
Hypogastric Artery		3R

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# Research Applications

## Typical Flowprobe Sizes for Research Applications cont.

This is only a cursory listing of applications possible with Transonic perivascular flowprobes. Please use the fax form to order materials from our research support bibliography or you may contact our support staff directly for references for applications not listed here.

	<i>Acute Application</i>	<i>Chronic Implant</i>
<b>Squirrel Monkey</b> -----		
Renal Artery	2SB	
Femoral Artery	2SB	
<b>Cow</b> -----		
Abdominal Aorta	16SS	
Mesenteric Artery	16S	
External Pudic Artery	12SS, 16SS	(silicone shield, suggested)
Mammary Artery		16S, lactating dairy cow
Afferent Mammary Duct	2R	
<b>Horse</b> -----		
Bronchial Artery	4RB	4RB
Colic Artery	6RS	6RS
Lateral Cecal Artery	4RS	4RS
Middle Uterine Artery	8S	8S

## Technical Notes

Probe Manipulation in Procedures with Limited Exposure	TN-1
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Bench Calibration Procedure for Perivascular Flowprobes	TN-5
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