

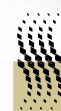
LANGSTON[®]

Dual Lumen Catheters

Four tip configurations:

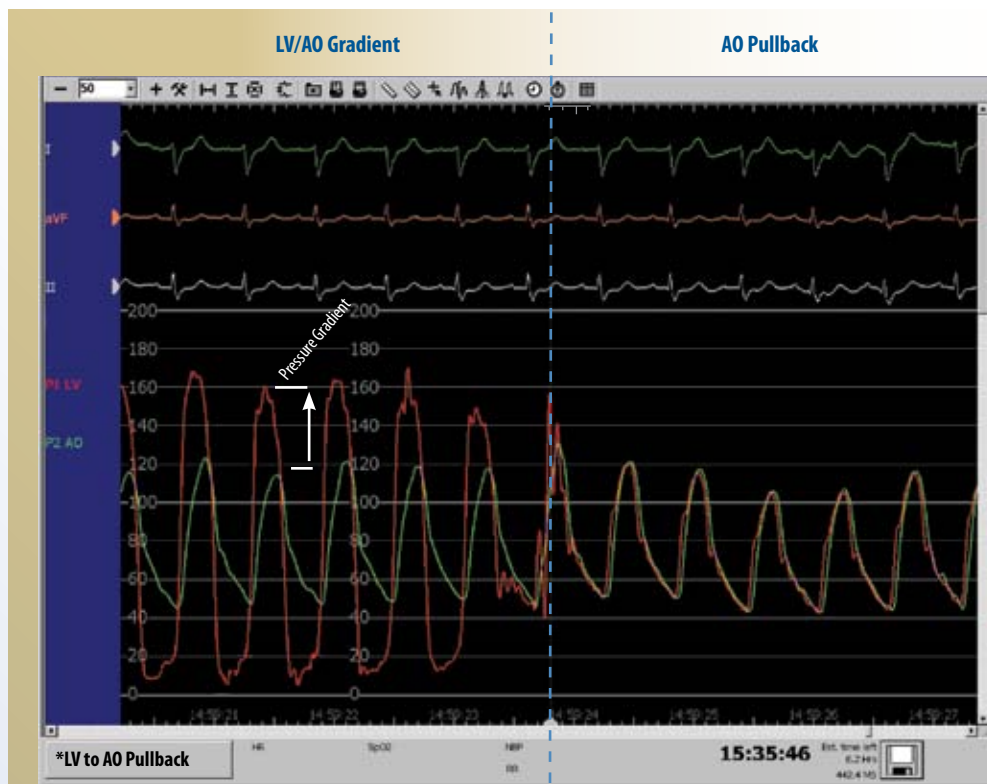
- Straight Selective
- Angled
- Multipurpose A2
- 145° Pigtail

*Simultaneous
Measurement of
Differential
Pressures*



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LANGSTON[®] Dual Lumen Catheters



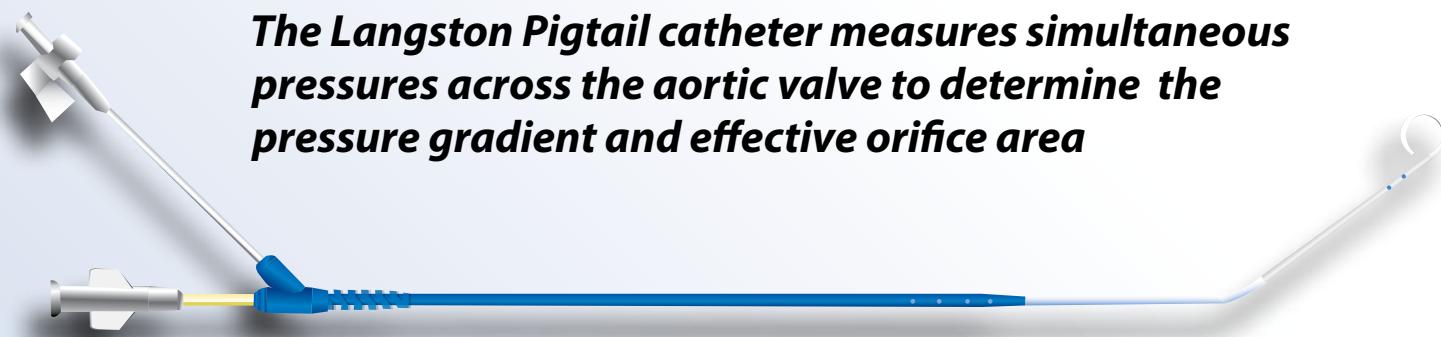
Langston dual lumen catheters deliver simultaneous pressure measurements accurately and precisely through two independent lumens.

Sensor Lines

- Pigtail inner lumen pressure measurement
- Outer coaxial lumen pressure measurement

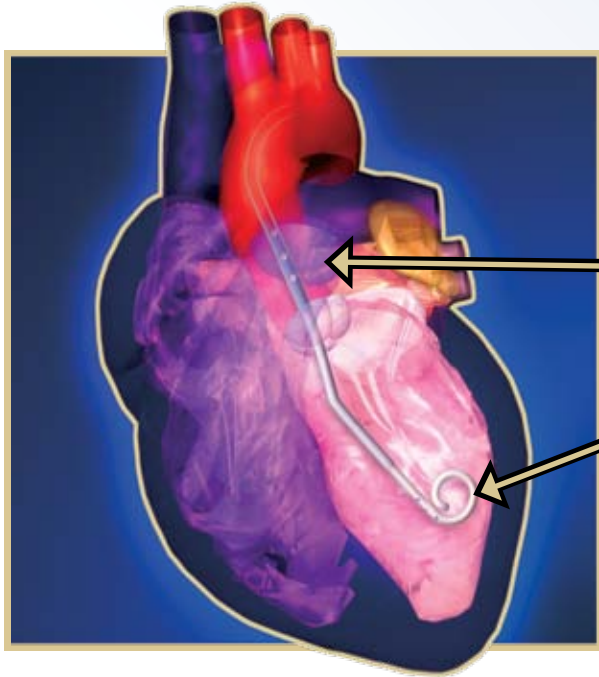
* Patient deployment with Langston pigtail catheter

The Langston Pigtail catheter measures simultaneous pressures across the aortic valve to determine the pressure gradient and effective orifice area



- 5F Pigtail on 4F inner catheter improves pushability and kink resistance across the aortic valve
- Braided inner catheter provides excellent flexibility and optimal torque response for maximum control
- Multiple tip designs combine excellent shape retention and a low crossing profile
- Tip opacity ensures accurate placement and optimal visualization

Simultaneous . . . Accurate . . . Precise



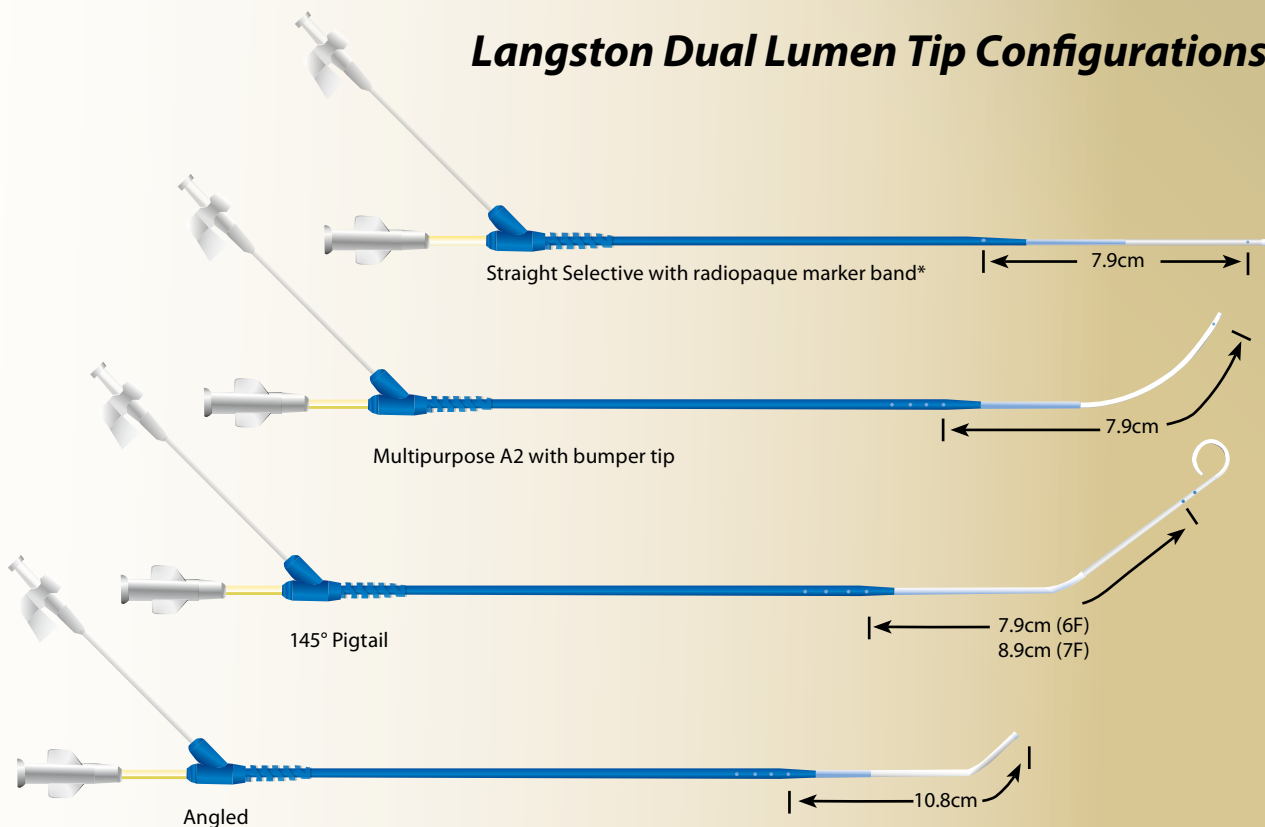
■ Langston dual lumen catheters offer accurate and precise pressure measurements through two lumens in a coaxial design:

Outer lumen for AO/proximal pressure measurements

Inner lumen for high pressure delivery of contrast medium and LV/distal pressure measurements

■ With braided catheter construction and low crossing profile

Langston Dual Lumen Tip Configurations



*Marker band location 1cm distal to outer lumen sideholes

LANGSTON®

Dual Lumen Catheters

Langston dual lumen catheters are indicated for delivery of contrast medium in angiographic studies and for simultaneous pressure measurement from two sites. This type of pressure measurement is useful in determining transvascular, intravascular and intraventricular pressure gradients.



Langston Dual Lumen Catheters¹

Model	Catheter Description	Length	O.D.	Inner Lumen	Proximal Marker Band	Guidewire	# Outer Lumen Sideholes	# Inner Lumen Sideholes	Inner Lumen M.P.R. ²	Max Flow Rate ³
5515	145° Pigtail	125cm	7F	5F	No	≤0.038" 0.965mm	8	5	1200psi	17ml/sec
5540	145° Pigtail	110cm	6F	5F ⁴	No	≤0.038" 0.965mm	8	5	1000psi	13ml/sec
5550	Multipurpose A2	100cm	6F	4F	No	≤0.038" 0.965mm	8	2	1000psi	14ml/sec
5555	Angled	65cm	6F	4F	No	≤0.038" 0.965mm	8	0	1000psi	17ml/sec
5560	Straight Selective	110cm	6F	4F	Yes	≤0.038" 0.965mm	2	2	1000psi	13ml/sec

¹Packaged in quantities of 5 units per box. Individual units not sold separately.

²Maximum Pressure Rating

³Flow rates achieved at 4.7cP. Actual results may vary.

⁴5F Pigtail section with 4F shaft



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Please see the *Instructions for Use* for a complete listing of the indications, contraindications, warnings and precautions.

CAUTION: Federal law (U.S.A.) restricts this device to sale by or on the order of a physician.

U.S. and International patents pending.

Langston is a registered trademark of Vascular Solutions, Inc.

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