

CLOSURE DEVICES						
Company Name	Product Name	Type	Puncture Size (F)	Maximum Wire Compatibility	FDA Approved	Comments
Abbott Vascular	Perclose A-T	Suture	5-8	.038	Yes	Automated knot for vascular closure of 5-F to 8-F access sites.
	Perclose ProGlide	Suture	5-8	.038	Yes	Monofilament suture. Automated knot tying.
	Perclose Prostar XL 10	Suture	6.5-10	.038	Yes	Prostar XL 10 designed to close up to 10-F access sites.
	StarClose	Nitinol clip	5, 6	.038	Yes	An extravascular nitinol clip that mechanically closes the arteriotomy to ensure rapid hemostasis.
Cardiva Medical, Inc.	Boomerang ClosureWire	Arteriotomy tamponade	5, 6	Works through existing sheath	Yes	Easily deployed device minimizes vessel trauma and complications, leaves no implant materials in the patient, and allows earlier ambulation.
Datascope Interventional	On-Site	Precision closure device	5-6	n/a	Yes	New easy to use, over the wire, closure device employs a temporary locator disc to ensure precise extravascular collagen plug placement. Advanced micropore collagen. Single-operator. Leaves no intra-arterial components behind.
	Elite	Advanced collagen plug	5-8	n/a	Yes	A one-size-fits-all, extravascular closure device indicated for use in interventional and diagnostic procedures in highly anticoagulated patients and those with PVD.
	VasoSeal Low Profile	Collagen plug	4, 5	n/a	Yes	Available in five kit sizes for angiography procedures.
	VasoSeal VHD	Collagen plug	8 or smaller	n/a	Yes	Extravascular closure. Available in seven kit sizes for interventional and diagnostic procedures.
Medtronic	AngioLink Vascular Closure System	Staple	6-8	.038	Yes	Extraluminal mechanical closure. Does not remodel vessel or impede blood flow at the access site. Inert and highly biocompatible titanium staple improves patient comfort and does not limit reaccess.
Sutura	SuperStitch	Polypropylene suture and knot	5-12	Works through existing sheath	Yes	True 5-F, 6-F, 8-F, and 12-F suture delivery through the sheath. Does not enlarge arteriotomy.
St. Jude Medical, Inc.	Angio-Seal VIP, STS Plus and STS. Angio-Seal Millennium Platform (Japan only)	Mechanical seal	6, 8	6 F = .035 8 F = .038	Yes	Suture, collagen, and anchor sandwich of the arteriotomy. All components reabsorb within 90 days. FDA labeling for immediate restick. Next-generation device: Angio-Seal VIP launched in March 2006.
Vascular Solutions, Inc.	Duett Pro & Diagnostic Duett Pro	Thrombin and collagen procoagulant	5-9	Works through existing sheath	Yes	Utilizes the existing sheath, a balloon catheter, and a procoagulant to achieve hemostasis. Duett Pro is approved for use with GP IIb/IIIa inhibitors and ACT of less than 400.