

APPENDIX A

Table 10. Inflators analysed. Highlighted in yellow, the devices specified for angioplasty. Highlighted in green, the devices analysed in this assessment.



BRAND	BSC*	BSC	BSC	Diversatek™ Healthcare	Cook
PRODUCT	Encore™ 26	Alliance™ II Handle	Alliance™ II Inflation Syringe	Viper®	Dilation syringe
USAGE	Balloon dilatation, endoscopy, urology	Balloon dilatation, endoscopy, urology	Balloon dilatation, endoscopy, urology	Endoscopy	Endoscopy, surgery
MAX. PRESSURE (atm)	26		12	14	13
FLUID CAPACITY (mL)	20		50	60	50
MANOMETER	Analog		Analog	Analog	Analog
LOCK MECHANISM	Finger latch	Similar to caulk gun	Alliance™ Handle	Alliance™ Handle	Squeeze the handle
STERILISATION	EtO	High-level disinfection	EtO	Non-Sterile**	Non-Sterile**
SINGLE-USE	Yes	Reusable	Yes	Yes	Yes
REFERENCE	BSC (2023)	BSC (2020)	BSC (2020)	Diversatek Healthcare (2022)	Cook Medical (2024)
OTHER	Previously used in IR department at LUMC. Widely used for angioplasty procedures.	To be used together with Alliance™ Syringe	To be used together with Alliance™ Handle	Compatible with Alliance™ II Handle. Use according to inflation handle manufacturer's instructions. Glow in the dark pressure gauge	Compatible with 60 mL syringe inflation handles (it does not specify which one). Assemble and use according to inflation handle manufacturer's instructions.

*Boston Scientific Corporation (BSC)

**It does not clarify the requirement for further processing (sterilisation).



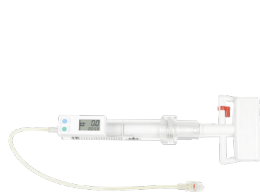
BRAND	BSC, Cook, B. Braun, Olympus, BD, Acclarent, Argon Medical, etc.									Demax	Medtronic
PRODUCT	Distribution names: CRE SteriFlate™, Cook Sphere®, Eagle™, etc.									Mastro®, Mastro® Plus	Everest
USAGE	Balloon dilatation. TAVR, ENT, coronary, peripheral, endoscopic, vertebrae, urological, and nephrological interventions									PTCA	Balloon dilatation
MAX. PRESSURE (atm)	15	30	55	30	30	30	40	15	15	Two options: 30, 40	30
FLUID CAPACITY (mL)	10	10	14	20	20	25	25	40	60	Two options: 20, 30	20
MANOMETER	Analog									Analog	Analog
LOCK MECHANISM	Quick Latch except for 30 atm 20 mL (Press-to-Release Button)									Selok® patent	Actuator as trigger
STERILISATION	Sterile									EtO	EtO
SINGLE-USE	Yes									Yes	Yes
REFERENCE	Atrion Medical (2020)									Demax (2020)	Medtronic (2016)
OTHER	Patents and manufactured by Atrion Medical									Ergonomic design patent	Gun-style ergonomic design. Round ridged knob. Currently used in IR and IC departments at LUMC

*It does not clarify the requirement for further processing (sterilisation).



BRAND	Merit*				
PRODUCT	basixSKY™	basixTOUCH™	basixTOUCH40	basixCOMPAK™	Blue Diamond™
USAGE	Angioplasty	Angioplasty	Angioplasty	Angioplasty	Angioplasty
MAX. PRESSURE (atm)	30	35	40	30	30
FLUID CAPACITY (mL)	20	30	30	20	20
MANOMETER	Analog	Analog	Analog	Analog	Digital
LOCK MECHANISM	Squeeze the handle	Squeeze the handle	Squeeze the handle	PRIMELOK™	PRIMELOK™
STERILISATION	EtO	EtO	EtO	EtO	EtO
SINGLE-USE	Yes	Yes	Yes	Yes	Yes
REFERENCE	Merit (2024a)	Merit (2023)	Merit (2020b)	Merit (2020a)	Merit (2021)
OTHER	Can be used with one hand	Can be used with one hand	Can be used with one hand		

*Merit Medical Systems (Merit)



BRAND	Merit	Merit	B. Braun, Kindly*	Vedkang	MT Endoscopy
PRODUCT	MONARCH®	DiamondTOUCH™	AI25	Vedkang	Inflation device
USAGE	Angioplasty	Angioplasty	PTCA balloon	Does not say	Balloon Inflation
MAX. PRESSURE (atm)	30	35	30	15	15
FLUID CAPACITY (mL)	20	30	20	60	60
MANOMETER	Digital	Analog	Analog	Analog	Analog
LOCK MECHANISM	PRIMELOK™	Squeeze the handle	Lever	Lever	Lever-lock
STERILISATION	EtO	EtO	EtO	EtO	Sterile, not specified
SINGLE-USE	Yes	Yes	Yes	Yes	Yes
REFERENCE	Merit (2020d)	Merit (2020c)	Kindly (2021)	Vedkang (2018)	MT Endoscopy (n.d.)
OTHER	Digital version of basixCOMPAK™	Digital version of basixTOUCH™	Manufactured by Kindly		

*Shanghai Kindly Medical Instruments (Kindly)

**Micro-Tech Endoscopy (MT Endoscopy)

APPENDIX B