



INTRAVASCULAR THERAPIES  
Mid-term vascular access

smartmidline™  
New CT rated midlines



Up to  
5ml/sec &  
325psi



Value Life

Do you know that 69% of PIVs\* fail prior to completion of therapy and that PIV average dwell time is 2.4 days?  
(1)

Are you worried when you have to cannulate a DIVA\* patient?

What options do you have to improve patient comfort and safety during mid-term IV treatment?

**Midline is the safest vascular access device for peripheral IV infusion lasting more than 96 hours.**

Midline catheters are peripheral catheters for short to mid-term IV treatments. It is preferably inserted in the upper arm veins. You just need to puncture the patient once and this catheter can last up to 29 days.<sup>(2)</sup>

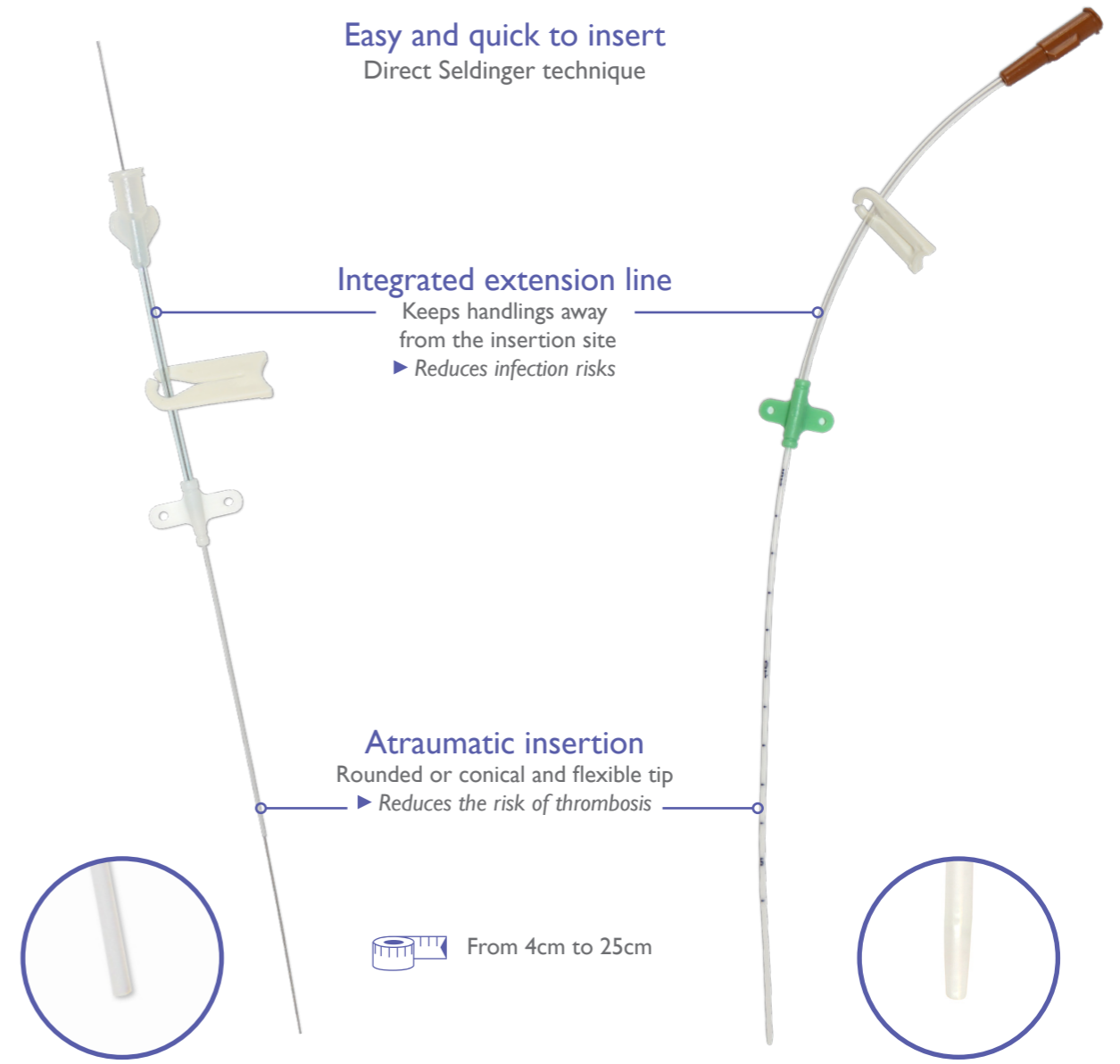
your patient to have a comfortable, safe and reliable catheter avoiding painful and repeated venous punctures.<sup>(3)</sup>

Midline is the solution for all patients with poor venous access or patients requiring a peripheral access for more than 4 days. With midline you allow

VYGON has a new range of midline ready to use (extension line already included) and inserted using the well-known Seldinger technique: smartmidline™.

\*PIV: Peripheral IntraVenous catheter - DIVA: Difficult Venous Access

(1) : Marsh, N., Webster, J., Larsen, E, Cooke, M., Mihala, G., Richard, C.M., Observational Study of Peripheral Intravenous Catheter Outcomes in Adult Hospitalized Patients: A Multivariable Analysis of Peripheral Intravenous Catheter Failure. Journal of Hospital Medicine, 2018 Feb 1;13(2):83-89. doi: 10.12788/jhm.2867. Epub 2017 Oct 18  
 (2): Intravenous Nurses Society [INS], Infusion nursing standards of practice: Site selection and device placement. Journal of Infusion Nursing, 2016, 39(15), S52-S54-S64  
 (3): Gorski L et Czaolewski, Peripherally inserted central catheters and midline catheters for the homecare nurse, J Inf Nursing, Nov/Dec 2004: 27(6), 399-409



**Easy and quick to insert**  
Direct Seldinger technique

**Integrated extension line**  
Keeps handlings away from the insertion site  
▶ Reduces infection risks

**Atraumatic insertion**  
Rounded or conical and flexible tip  
▶ Reduces the risk of thrombosis

From 4cm to 25cm

For midline easy identification



2Fr

Adapted to all patients and user needs  
From 2Fr to 4Fr

4Fr

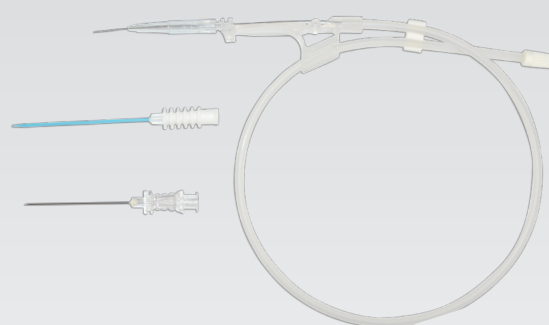


Catheter Size	Length (cm)	Guidewire length (cm)	Max. Flowrate (Viscosity 11.8 cP)	Code
2Fr	4	23	1.5 ml/s	128.1204
	6	23	1.5 ml/s	128.1206
	6	40	1.5 ml/s	128.12062
	8	26	1 ml/s	128.1208
	8	40	1 ml/s	128.12082
	10	26	1 ml/s	128.1210
	15	40	0.5 ml/s	128.1215
	20	50	0.5 ml/s	128.1220
3Fr	6	23	1.5 ml/s	128.1306
	8	26	1.5 ml/s	128.1308
	10	26	1.5 ml/s	128.1310
	12	40	1 ml/s	128.1312
	15	40	1 ml/s	128.1315
	20	50	1 ml/s	128.1320
4Fr	8	40	5 ml/s	128.1408*
	10	40	5 ml/s	128.1410*
	12	40	5 ml/s	128.1412
	15	50	5 ml/s	128.1415
	20	50	5 ml/s	128.1420
	25	60	5 ml/s	128.1425

\*: CE mark pending

### Kit composition:


- Puncture needle, 21G - 4.5 cm
- Stainless steel straight guidewire, 0.018" (0.46 mm) (except for codes 128.12062/12082 : J Nitinol guidewire)
- Dilator (only included with 3Fr and 4Fr catheter)



## INTRAVASCULAR THERAPIES

**For further information, please contact: [marketingbenelux@vygon.com](mailto:marketingbenelux@vygon.com)**

The specifications shown in this leaflet are for information only and are not, under any circumstances, of a contractual nature.

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