CareVis

Single use elastomeric pumps

PROMECON

Models

Infusion pumps for a wide range of applications

Elastomeric single-use infusion pumps

CareVis® is an elastomeric pump for single-use for the infusion of cytostatics, antibiotics, analgesics, anaesthetics and more. The pump offers patients a very high mobility during treatment and is a safe and simple alternative to electronic devices.

CareVis® can be used in clinics and outpatient. It is available with different continuous flow rates between 0.5 ml/ hr. and 250 ml/hr. and in sizes between 60 ml and 600 ml. In addition, there are PCA models and multirate models with removable adjustment key.

Benefits

- simple application, function without external energy sources
- wide range of flow rates, filling volumes and special models, perfectly adapted to application needs
- comfortable and discreet for the patient
- high delivery accuracy
- air and particle filter as well as kink-resistant infusion line ensure maximum safety
- enables outpatient treatment and early discharge
- cost-effective
- latex- and DEHP-free

Indication

Short-, medium- or long-term infusions of a wide range of medications, including cytostatics, antibiotics and analgesics.

CareVis® is suitable for intravenous, subcutaneous, epidural and tissue infusion.

For regional anaesthesia epidurally, on nerves and intralesionally in surgical wounds, CareVis® is also available with neuraxial connections according to ISO 80369-6.

Models

Infusion pumps for a wide range of applications

CareVis - continuous basal flow

Infusion pump with predefined flow rate, universally applicable for continuous applications. Lightweight and simple.

Applications:

■ wide range of applications for continuous infusions including keeping accesses open, intravenous, subcutaneous, epidural, into tissue for nerve blocks and wound infiltration.

CareVis PCA - continuous basal flow and bolus function

With continuous basal rate and bolus button for patient-controlled analgesia.

Applications:
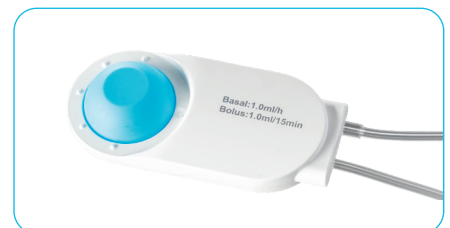
■ postoperative pain therapy, systemic or regional

CareVis BoluS - exclusively with bolus function

Medication delivery without continuous basal rate exclusively via bolus function.

Applications:

■ postoperative pain therapy, systemic or regional

CareVis VariO - seven selectable rates of basal flows

Multirate version with seven adjustable flow rates for basal flow selection.

Applications:

■ Full spectrum of regional anaesthesia including wound infiltration

CareVis VariO Plus - selectable basal rate, with bolus function

Combines the seven adjustable flow rates amd PCA unit.

Application:

■ Regional anaesthesia

CareVis TwiN - two catheters

Two-line split infusion line with a flow limiter before splitting.

Application:

■ Wound infiltration anaesthesia with two catheters

CareVis elastomeric pumps

Models

Infusion pumps for a wide range of applications

CareVis DuO - two lines with one flow restrictor each

For the use with two catheters. Both lines have a flow restrictor.

Application:

■ Wound infiltration anaesthesia with two catheters

CareVis RuN - fast flow rate

With fast flow rate especially for short term infusions of antibiotics.

Applications:

■ e.g. antibiotic therapy

CareVis OncO - microfluidic chip for 5-fluorouracil

Flow limiter in microfluidic chip technology specially developed for the infusion of 5-fluorouracil.

Application:

■ Oncology

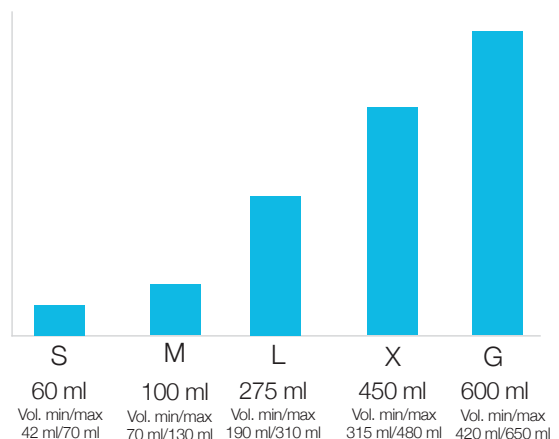## CareVis NaX - Neuraxial connections according to ISO 80369-6

All models for use in pain therapy are also available with so-called neuraxial connectors according to ISO 80369-6.

The yellow patient connectors are clearly different from Luer connectors and are not compatible with these. This helps to prevent incorrect injections with intravenous medications due to confusion in everyday clinical use.

CareVis elastomeric pumps: available in five sizes

S	M	L	X	G
60 ml	100 ml	275 ml	450 ml	600 ml
Vol. min/max 42 ml/70 ml	Vol. min/max 70 ml/130 ml	Vol. min/max 190 ml/310 ml	Vol. min/max 315 ml/480 ml	Vol. min/max 420 ml/650 ml

CareVis elastomeric pumps

Application: systemic pain therapy

For intravenous, postoperative use

CareVis: with pre-set continuous basal rate without bolus

Key Code: V FF

Example: 60 ml-infusion pump with 2 ml/h: S20

Volume	V		Flow rate	FF
60 ml	S		0.5 ml/hr.	05
100 ml	M		1.0 ml/hr.	10
			2.0 ml/hr.	20
			4.0 ml/hr.	40
			5.0 ml/hr.	50

CareVis PCA: with pre-set basal rate plus bolus

Key Code: V FF LL B

Volume   V   (as stated above)

Flow rate   FF   (as stated above)

Example: 100 ml-infusion pump, 1 ml/hr. continously, 1 ml bolus every 8 minutes: M1008E
(max. delivery: 8,5 ml/hr.)

Lock-out time	LL		Bolus	B
5 min.	05		0.5 ml/hr.	R
6 min.	06		1.0 ml/hr.	E
8 min.	08		2.0 ml/hr.	W
10 min.	10			
15 min.	15			
30 min.	30			
60 min.	60			

Basal:1.0ml/h
Bolus:1.0ml/15min

CareVis BoluS: only bolus, without continuous basal rate

Key Code: V 00 LL B

Flow rate: 00
everything else like PCA

Example: 60 ml-Infusion pump, 0.5 ml bolus every 6 minutes: S0006R
(max. delivery 5 ml/hr.)

CareVis elastomeric pumps

Application: regional pain therapy

Epidural and plexus anaesthesia

CareVis: with pre-set continuous basal rate

Key Code: V FFF   Flow rate: 2.0 - 2.5 - 4.0 - 5.0 - 8.0 - 10.0 - 13.0 ml/hr.

Examples	Volume (min / max)			
Flow rate	100 ml (M) (70 ml / 130 ml)	275 ml (L) (190 ml / 310 ml)	450 ml (X) (315 ml / 480 ml)	600 ml (G) (420 ml / 650 ml)
4 ml/hr.	M40	L40	X40	-
5 ml/hr.	M50	L50	X50	G50
8 ml/hr.	M80	L80	X80	G80
10 ml/hr.	M100	L100	X100	G100
13 ml/hr.	M130	L130	X130	G130

CareVis PCA: with pre-set basal rate plus bolus

Key Code: V FFF LL B

Lock-out time: 10 - 15 - 30 - 60 min

Flow rate: 2.0 - 2.5 - 4.0 - 5.0 - 8.0 - 10.0 - 13.0 ml/hr.

Bolus volumes: 1.0 ml: **E**

2.0 ml: **W**

Beispiele	Volume (min / max)			
Flow rate / Lock-out / Bolus	100 ml (M) (70 ml / 130 ml)	275 ml (L) (190 ml / 310 ml)	450 ml (X) (315 ml / 480 ml)	600 ml (G) (420 ml / 650 ml)
5 ml/hr. / 15 min. / 1 ml	M5015E	L5015E	X5015E	G5015E
8 ml/hr. / 10 min. / 2 ml	M8010W	L8010W	X8010W	G8010W
10 ml/hr. / 15 min. / 2 ml	M10015W	L10015W	X10015W	G10015W

CareVis elastomeric pumps

Application: regional pain therapy

Use in epidural and plexus anaesthesia

CareVis VariO: with adjustable continuous basal rate

Item No.: as stated in the table

adjustable flow rate	Volume* (min / max)			
	100 ml (M) (70 ml / 130 ml)	275 ml (L) (190 ml / 310 ml)	450 ml (X) (315 ml / 480 ml)	600 ml (G) (420 ml / 650 ml)
0 - 0.5 - 1 - 1.5 - 2 - 2.5 - 3 - 3.5 ml/hr.	VM0535	VL0535	VX0535	VG0535
0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 ml/hr.	VM17	VL17	VX17	VG17
0 - 2 - 4 - 6 - 8 - 10 - 12 - 14 ml/hr.	VM214	VL214	VX214	VG214

CareVis VariO Plus: with adjustable continuous basal rate plus bolus

Key Code: VV FFFF LL B   Lock-out time: 15 - 30 - 60 Min.

Bolus volume: 0.5 ml: R
　　　　　　　 1.0 ml: E
　　　　　　　 2.0 ml: W

adjustable Flow rate / Lock-out / Bolus	Volume* (min / max)			
	100 ml (M) (70 ml / 130 ml)	275 ml (L) (190 ml / 310 ml)	450 ml (X) (315 ml / 480 ml)	600 ml (G) (420 ml / 650 ml)
0 - 0.5 - 1 - 1.5 - 2 - 2.5 - 3 - 3.5 ml/hr. / 15 min. / 1 ml	VM053515E	VL053515E	VX053515E	VG053515E
0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 ml/hr. / 15 min. / 2 ml	VM1715W	VL1715W	VX1715W	VG1715W
0 - 2 - 4 - 6 - 8 - 10 - 12 - 14 ml/hr. / 30 min. / 2 ml	VM21430W	VL21430W	VX21430W	VG21430W

* Multirate pumps are also available with 60 ml (S) filling volume. With detachable setting control key.

CareVis elastomeric pumps

Application: wound infiltration anesthesia

Generally, the same pumps are used as for regional anaesthesia (see p. 6 and 7).
Three model series are available for procedures with two catheters:

CareVis DuO **-** two flow restrictors, one for each arm
CareVis TwiN **-** with one flow restrictor before the split
CareVis VariO TwiN **-** with adjustable flow rate before the split

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Key Code: **CareVis** DuO: Suffix-**D**
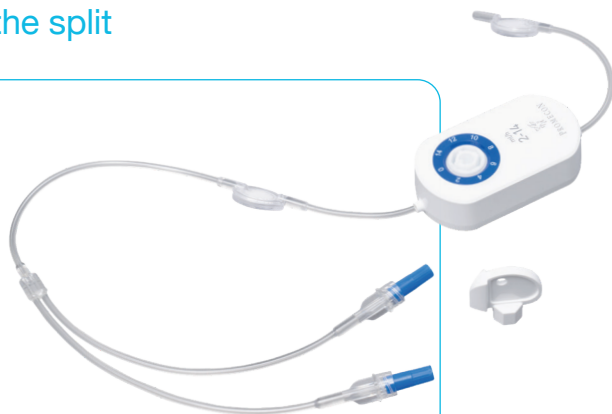Key Code: **CareVis** TwiN / **CareVis** Vario TwiN: Suffix-**T**

Please add „-D" or „-T" to the end of the article number

Volume: 275 ml (L), 450 ml (X) and 600 ml (G)

Flow rates as for continuous pumps (see page 6)

Example DuO: 275 ml, 4 ml/hr. (2 flow restrictors each at 2 ml/hr.) **L40-D**
Example TwiN: 450 ml, 5 ml/hr. (2,5 ml/hr. each arm) **X50-T**

CareVis NaX

For epidural, plexus and wound infiltration applications

NeuroaXiale connector configuration (ISO 80369-6) for all pain pumps

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Key Code: Suffix-**N**

Please add „-N" to the end of the article number.

Example VariO TwiN NaX: 450 ml, adjustable between 2 ml/hr. and 14 ml/hr. **VX214-TN**

Models:

1 infusion line	2 infusion lines
CareVis NaX	**CareVis** DuO NaX
CareVis PCA NaX	**CareVis** TwiN NaX
CareVis BoluS NaX	**CareVis** VariO TwiN NaX
CareVis VariO NaX	**CareVis** VariO Plus TwiN NaX
CareVis VariO Plus NaX	

CareVis elastomeric pumps

Application: antibiotic therapy

CareVis Run - for short term application of antibiotics

Example	Volume (min / max)	
Flow rate	**100 ml (M)** (70 ml / 130 ml)	**275 ml (L)** (190 ml / 310 ml)
50 ml/hr.	M500	-
100 ml/hr.	M1000	-
200 ml/hr.	M2000	-
250 ml/hr.	-	L2500

The continuous **CareVis** (see p. 6) is used for the long-term infusion of antibiotics.

Application: Oncology

For the infusion of 5-Fluorouracil, Trabectedin and other drugs in oncology

CareVis OncO - with microfluidic chip technology

The unique wide-channel flow regulator, specially developed for infusions with 5-Fluorouracil, ensures a high flow accuracy.

Wide channels provide a free flow without flow delays by typical precipitations of fine crystals of 5-Fluorouracil.

Example	Volume 100 ml (M) (70 ml / 130 ml)		
Item No.	**Flow rate**	**Usual use**	**Max. infusion time**
M05-O	0.5 ml/hr.	5-9 days	260 hrs.
M10-O	1.0 ml/hr.	3-5 days	130 hrs.
M20-O	2.0 ml/hr.	2 days	65 hrs.
M25-O	2.5 ml/hr.	2 days	52 hrs.
M40-O	4.0 ml/hr.	1 day	32 hrs.
M50-O	5.0 ml/hr.	1 day	26 hrs.

Example	Volume 275 ml (L) (190 ml / 310 ml)		
Item No.	**Flow rate**	**Usual use**	**Max. infusion time**
L10-O	1.0 ml/hr.	10 days	310 hrs.
L15-O	1.5 ml/hr.	7-8 days	207 hrs.
L20-O	2.0 ml/hr.	4-6 days	155 hrs.
L50-O	5.0 ml/hr.	2 days	62 hrs.
L80-O	8.0 ml/hr.	1,5 days	39 hrs.
L100-O	10.0 ml/hr.	1 day	31 hrs.

On request: other pump sizes for oncology: 450 ml and 600 ml for large patients with trabectedin infusion.

Application: Deferoxamine therapy

For therapy with iron chelating agents

Please ask about CareVis models for half-day or longer-term infusions of deferoxamine.
We will be happy to advise you.

Carrier bags and nets

Carrier bag for elastomeric pumps

Item No.	Description
TT001	carrier bag for 60 - 100 ml pumps
TT002	carrier bag for 275 ml pumps
TT003	carrier bag for 450 - 600 ml pumps

Carrier net for elastomeric pumps

Item No.	Description
TN001	carrier net for 60 - 275 ml pumps

Y-connection Safe Site

With one-way valve for parallel gravity infusions

Item No.: FD0000512-2VUBC

CareVis elastomeric pumps

Order information

Models Luer ISO 80369-7	Models Neuroaxial ISO 80369-6	Nominal Volume (ml)	Flow rate (ml/hr)	Lock-out time (min)	Bolus volume (ml)
CareVis	**CareVis** NaX				
M20	M20-N	100	2		
M40	M40-N	100	4		
M50	M50-N	100	5		
L20	L20-N	275	2		
L50	L50-N	275	5		
L80	L80-N	275	8		
L100	L100-N	275	10		
CareVis PCA	**CareVis** PCA NaX				
L5060E	L5060E-N	275	5	60	1,0
CareVis Bolus	**CareVis** BoluS NaX				
S0006R	S0006R-N	60	0	6	0,5
S0008E	S0008E-N	60	0	8	1,0
S0008E	S0008E-N	60	0	8	2,0
S0010R	S0010R-N	60	0	10	0,5
S0010W	S0010W-N	60	0	10	2,0
M0010W	M0010W-N	100	0	10	2,0
M0008W	M0008W-N	100	0	8	2,0
CareVis VariO	**CareVis** VariO NaX				
VM17	VM17-N	100	0,1,2,3,4,5,6,7		
VL17	VL17-N	275	0,1,2,3,4,5,6,7		
VL214	VL214-N	275	0,2,4,6,8,10,12,14		
CareVis OncO					
M20-O		100	2		
M40-O		100	4		
M50-O		100	5		
L50-O		275	5		
L100-O		275	10		

Further models on request

You can also find more information about our products at:

www.promecon-medical.com

Or subscribe to our newsletter. Our newsletter provides you with valuable information and practical tips around our infusion pumps on a regular basis.

Subscribe to our newsletter

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Advancing Health

Promecon is a medical device manufacturer with a certified quality management system (ISO 13485:2016).

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