

Technical data




**Port porthales® 4000**  
with bacteria filter and ULTEM® needle stop

Volume port chamber:	0,45 ml
Septum diameter:	11 mm
Height:	12 mm
Base:	30 x 26,7 mm
Order number:	250 V 000 004 oWA

**IP2000V**  
for continuous intrathecal drug application

Reservoir volume:		20 ml	35 ml	40 ml	60 ml
Flowrate per 24h:	0,25 ml	200 V 025 020 oWA	200 V 025 035 oWA		
	0,5 ml	200 V 050 020 oWA	200 V 050 035 oWA	200 V 050 040 oWA	
	0,8 ml	200 V 080 020 oWA	200 V 080 035 oWA	200 V 080 040 oWA	200 V 080 060 oWA
	1,0 ml	200 V 100 020 oWA	200 V 100 035 oWA	200 V 100 040 oWA	200 V 100 060 oWA
	1,3 ml	200 V 130 020 oWA	200 V 130 035 oWA	200 V 130 040 oWA	200 V 130 060 oWA
	1,5 ml	200 V 150 020 oWA	200 V 150 035 oWA	200 V 150 040 oWA	200 V 150 060 oWA
	2,0 ml		200 V 200 035 oWA	200 V 200 040 oWA	200 V 200 060 oWA
	3,0 ml			200 V 300 040 oWA	200 V 300 060 oWA
Height:		14 mm	19 mm	21 mm	27 mm
Weight:		~100 g			
Diameter:		78 mm			
Septum:	Life span:	500 punctures with the recommended cannulas			
	Diameter:	Refill port: 8 mm Bolus port: 6 mm			
Application in:		pain therapy, spasticity therapy			

for special sizes please contact [tricumed](http://tricumed.com) 

**Septum finder**  
to locate the refill septum of the IP2000V

Height:	22 mm
Size:	132 x 41 mm
Order number:	200 V 000 001 oWo

**Spinal catheter set 4000**  
radiopaque silicone catheter with introducer kit

Catheter segment:	proximal	distal
Length:	1000 mm	600 mm
Outer diameter:	2,4 mm	1,5 mm
Inner diameter:	0,6 mm	0,7 mm
Order number:	277 V 000 001 oWA	



New quality of life for pain  
and spasticity patients

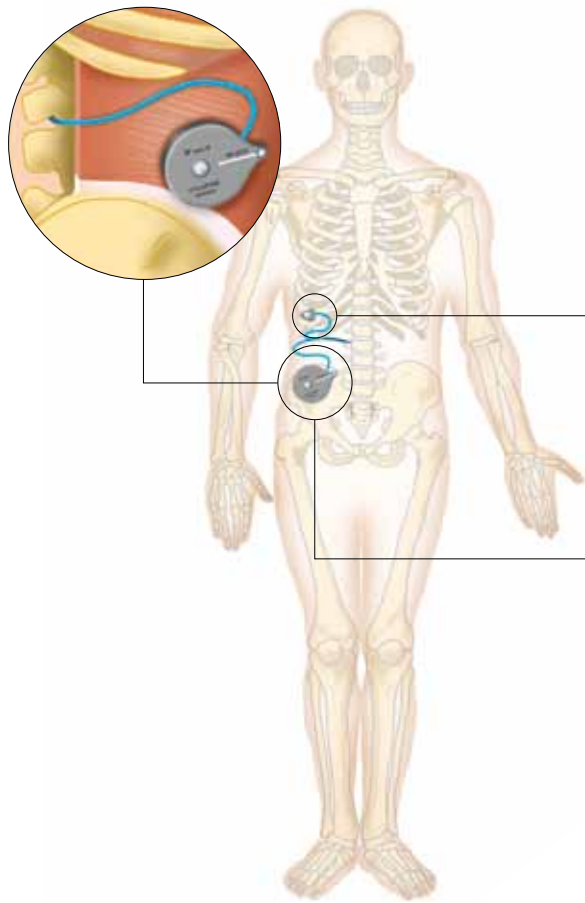
Complete solution for intrathecal long-term drug delivery



# New quality of life for pain and spasticity patients.

# All components from one supplier. tricumed

Side effects are drastically reduced by providing continuous, low dose drug administration, about 1/100 of the oral dose.



## Port porthales® 4000

With bacterial filter as meningitis prophylaxis

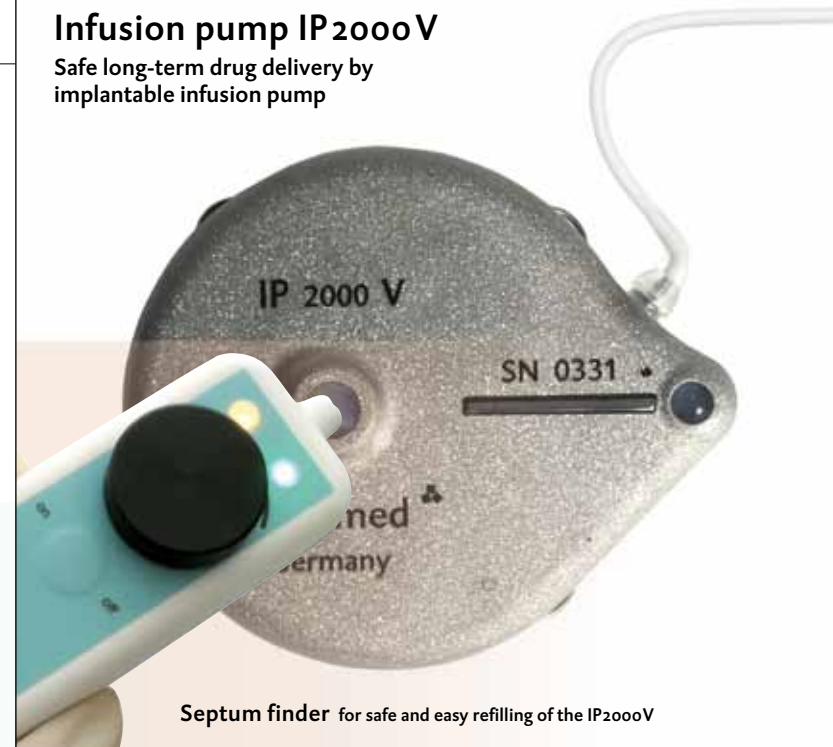


### Titration

To test the medication the spinal catheter 4000 is intrathecally placed. Instead of the IP2000V the port porthales® 4000 is initially implanted underneath the costal arch – with a generous catheter loop.

## Infusion pump IP2000V

Safe long-term drug delivery by implantable infusion pump



### Percutaneous refilling of the IP2000V

With the electronic septum finder it is easy to locate the refill septum of the IP2000V. Depending on the reservoir size the pump is refilled every 1 to 3 months.

Septum finder for safe and easy refilling of the IP2000V

## Spinal catheter set 4000

Proximal and distal catheter with introducer set

### Catheter placement

Proximal and distal catheters are shortened according to the individual patient needs. Both ends are safely and lastingly joined with the titanium connector. A butterfly anchor protects the connection position. A second butterfly anchor secures the catheter exiting the dura.

Closed catheter tip



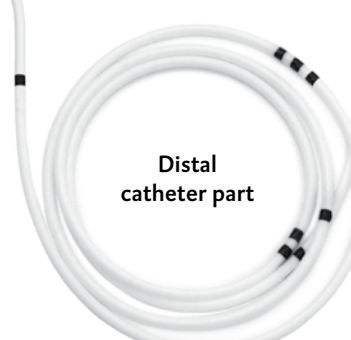
Titanium connector



Butterfly anchor  
Large inner diameter



Distal catheter part



Butterfly anchor  
Small inner diameter



### Long-term pain or spasticity therapy

The IP2000V can be punctured at least 500 times with the cannulas recommended by the manufacturer. The drive system lasts for more than 25 years without energy loss. The IP2000V is MRI suitable for 3 tesla.

