

## 6. SUCTION-IRRIGATION SYSTEMS

6.1 | IRRIGATION PUMP  
STEMA HYS | URO | ARTHRO  
STEMA I  
ACCESSORIES

6.2 | SUCTION-IRRIGATION PUMP  
STEMA PRO 2S  
ACCESSORIES

## 6.1 | IRRIGATION PUMP STEMA HYS / URO / ARTHRO

- Full automatic
- Performance according to indication
- Exact pressure measuring
- Highest safety and user comfort



CG-001-001

Ordering no.	Description
CG-001-001	STEMA HYS   IRRIGATION PUMP FOR HYSTEROSCOPY
CG-001-002	STEMA URO   IRRIGATION PUMP FOR UROLOGY
CG-002-001	STEMA ARTHRO   IRRIGATION PUMP FOR ARTHROSCOPY

### Technical data

Irrigation .....	STEMA HYS: Max. 500 ml/min
.....	STEMA URO: Max. 1000 ml/min
.....	STEMA ARTHRO: Max. 1.500 ml/min
Pressure range .....	STEMA HYS: 10 - 200 mmHg
.....	STEMA URO: 10 - 150 mmHG
.....	STEMA ARTHRO: 10 - 150 mmHG
Power supply .....	100 - 240 VAC or 220 - 240 VAC, 50/60 Hz
Dimensions .....	304 x 115 x 345 (w x h x d)
Weight .....	8.0 kg
Classification .....	1 / BF
Certificates .....	CE, DIN EN 60601-1:2005



Please find the accessories for our irrigation pumps on pages 52-53.

### Delivery contains

Pump, silicone tubing set autoclavable (1), fuses (2), operating manual, cable: mains (1)

## 6.1 | SUCTION-IRRIGATION PUMP STEMA I

- *Full automatic*
- *Irrigation capacity up to 3 l/min*
- *Suction capacity up to 3 l/min*
- *Highest safety and user comfort*



CG-003-001

Ordering no.	Description
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CG-003-001	STEMA I
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### Technical data

Irrigation .....	Max. 3.000 ml/min.
Suction .....	Max. 3.000 ml/min.
Pressure range .....	0- 750 mmHg
Power supply .....	100 - 240 VAC or 220- 240 VAC, 50/60 Hz
Dimensions .....	300 x 93 x 260 mm (w x h x d)
Weight .....	6.5 kg
Classification .....	1/BF
Certificates .....	CE, IEC 601-1, EN 60601-1, 93/42 ECC



Please find the accessories for our irrigation pumps on pages 52-53.

### Delivery contains

Pump, pneumatic manual control incl. double lumen connection tube, double adaptor, silicone tubing set autoclavable (1), fuses (2), operating manual, cable: mains (1)

## 6.1 ACCESSORIES | STEMA HYS / URO / ARTHRO / STEMA I



Ordering no.	Description
<b>CJ-005-005</b>	Euro mains cable, 2m



Ordering no.	Description
<b>CJ-005-006</b>	Fuse T 400ma, 5 x 20, PU 10 pieces



Ordering no.	Description
<b>CJ-005-012</b>	Pneumatic hand control, autoclavable



Ordering no.	Description
<b>CJ-005-011</b>	Silicone tubing set, autoclavable

## 6.1 ACCESSORIES | STEMA HYS / URO / ARTHRO / STEMA I

Ordering no.	Description
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**CJ-005-023**

Pressure measuring chamber for **CG-001-001**, **CG-001-002** and **CG-002-001** autoclavable



Ordering no.	Description
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**CJ-005-020**

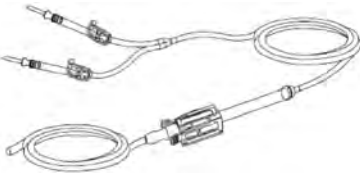
Silicone tubing set, autoclavable



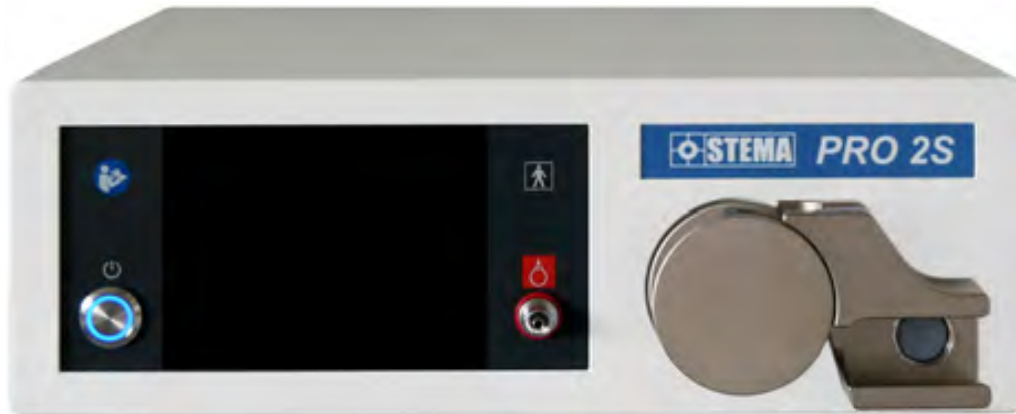
Ordering no.	Description
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**CJ-005-022**

PVC tubing set, single use, 20 pieces



## 6.2 | SUCTION-IRRIGATION PUMP STEMA PRO 2S



**CG-001-030**

### Pump (control unit):

- The pump (control unit) is equipped with a high-resolution colour touchscreen which provides intuitive operation
- in the chosen language
- Additional languages can be added on customers request
- In addition to pressure regulated irrigation function the pump offers suction function as standard

### Balance Unit

- The balance unit is supported in the applications hysteroscopy and urology and will provide the highest safety standards
- It comprises several functions to ensure a smooth and convenient surgical procedure

### Foot Switch

- The footswitch has been developed for an advanced wireless communication with the pump
- Precise control of the lavage procedure during operation and furthermore continuously adjustment of irrigation flow during the operation
- The footswitch will be supplied with battery pack and charger

### Delivery contains

Pump (control unit) incl. LAP and one further license, suction container, autoclavable tubing set for irrigation (silicone), autoclavable tubing set for suction (silicone) incl. filter, spare fuses, operating manual, cable: mains (1)



## 6.2 | SUCTION-IRRIGATION PUMP STEMA PRO 2S

Ordering no.	Product
<b>CG-001-030</b>	<b>STEMA PRO 2S</b>
<b>CG-001-031</b>	<b>LICENSE KEY LAPAROSCOPY</b>
<b>CG-001-032</b>	<b>LICENSE KEY ARTHROSCOPY</b>
<b>CG-001-033</b>	<b>LICENSE KEY HYSTEROSCOPY</b>
<b>CG-001-034</b>	<b>LICENSE KEY UROLOGY</b>
<b>CG-001-035</b>	<b>LICENSE KEY SPINE</b>



**CG-001-030**

### Technical data

Suction capacity .....	Vacuum max.-480 mmHg ± 10% – Flow max 2.200 ml/min
Flow range .....	Arthroscopy: 100 - 2.200 ml/min
.....	Hysteroscopy: 100 - 500 ml/min
.....	Laparoscopy: 100 - 2.200 ml/min
.....	Urology: 100 - 1.000 ml/min
.....	Spine: 100 - 750 ml/min
Pressure range .....	Arthroscopy: 10 - 150 mmHg
.....	Hysteroscopy: 10- 200 mmHg
.....	Laparoscopy: Max. 300 mmHg
.....	Urology: 10 - 150 mmHg
.....	Spine: 10 - 100 mmHg
Balance unit .....	Fluid loss detection: 0-2 l ± 10 %, relative to total inflow volume
Load on scale .....	Max. 25 kg
Operating conditions .....	Temperature: +10°C to +40°C
.....	Rel. humidity: 15 - 75% (non condens.)
.....	Air pressure: 70 - 106 kPa
.....	Max. operating altitude: 3.000 m ab. sea level
Storage/transport conditions .....	Temperature:-20°C to +40°C
.....	Relative humidity: 10 - 85% (non cond.)
.....	Air pressure: 70 - 106 kPa
Interfaces .....	RS 232, USB 1.1 type A, wireless connection footswith max. 20 m
Power supply .....	100 - 240 V/AC, 50 - 60 Hz
Power consumption .....	100 VA
Power input .....	400 - 700 mA
Mains fuse .....	T3, 15 AH, 250 V (5 x 20 mm), 2 pieces
Dimensions .....	360 x 133 x 354 mm (w x h x d)
Weight .....	9.8 kg
Classification .....	Protection class I, type BF, IP 41
Classification according appendix IX of MDD .....	Ila
Certificates .....	IEC 60601-1, IEC 60601-1-2

## 6.2 ACCESSORIES | STEMA PRO 2S



Ordering no.	Description
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<b>CJ-005-043</b>	Mains cable, 2m
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Ordering no.	Description
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<b>CJ-005-044</b>	Spare fuses, PU 2 pieces
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Ordering no.	Description
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<b>CJ-005-041</b>	Measuring chamber with pump segment, autoclavable, non sterile
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Ordering no.	Description
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<b>CJ-005-042</b>	Spare membran used for measurement chamber, 10 pcs.
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## 6.2 ACCESSORIES | STEMA PRO 2S



Ordering no.	Description
<b>CJ-005-030</b>	Foot switch used for CG-001-030, incl. charger
<b>CJ-005-031</b>	Charger for CJ-005-030



Ordering no.	Description
<b>CJ-005-032</b>	Balance unit
<b>CJ-005-045</b>	Balance pan for balance unit CJ-005-032



Ordering no.	Description
<b>CJ-005-033</b>	Tubing set for irrigation (silicone) for CG-001-030, autoclavable, non sterile



Ordering no.	Description
<b>CJ-005-034</b>	Tubing set for suction (silicone) for CG-001-030, autoclavable, non sterile
<b>CJ-005-035</b>	Tubing set for irrigation (PVC) for CG-001-030, disposable, sterile, PU 20 pieces
<b>CJ-005-036</b>	Tubing set for suction (PVC) for CG-001-030, disposable, sterile, PU 20 pieces
<b>CJ-005-036</b>	Patient tube (PVC) for CG-001-030, disposable, sterile, PU 40 pieces

## 6.2 ACCESSORIES | STEMA PRO 2S

Ordering no.	Description
<b>CJ-005-037</b>	Vacuum Suction tubing set used for pump CG-001-030, single use, 40 pcs, used for all indication



Ordering no.	Description
<b>CJ-005-038</b>	Suction container, 2 liters, autoclavable, non sterile



Ordering no.	Description
<b>CJ-005-039</b>	Holder for suction container CJ-005-038



Ordering no.	Description
<b>CJ-005-040</b>	Hydrophobic filter for tubing sets of silicone, autoclavable, non sterile

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ENDOSCOPY

ENT

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STEMA MEDIZINTECHNIK GMBH | TAKE-OFF GEWERBEPARK 74 | 78579 NEUHAUSEN OB ECK  
INFO@STEMA-MEDIZINTECHNIK.DE | WWW.STEMA-MEDIZINTECHNIK.DE | +49 7461 910 55 09

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