

*RÜSCH*



**TELEFLEX MEDICAL  
UROLOGY**



**Teleflex**  
MEDICAL



# UROLOGY

## RÜSCH QUALITY

With Rüsçh, Teleflex Medical offers the well-known quality for almost any area of urology - from trans-urethral urinary drainage to urodynamics. More than 100 years of know-how have gone into each of our products, and with this probably unique experience we have been able to make them as simple, comfortable and safe as possible, for patients as well as for doctors and medical staff.

However, we are not content with what we have achieved. Our constant search for perfection through continuous research and development plus the use of new technologies has resulted in medical products the quality of which sets the standard throughout the world.

## FOR ALMOST ANY APPLICATION

Our extensive range of urology products offers you high-quality Rüsçh instruments for almost any application - be it standard or special - and thus enables you to cater optimally for your patients.

## FOR CHILDREN ONLY THE BEST

Children are more sensitive to surgical interventions than adults. Good to know that all Rüsçh products are manufactured with particular care down to the last detail, and that special attention is paid to tips and eyes to make sure they are completely smooth and rounded.





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*NO COMPROMISE  
ON MATERIALS*

*Thanks to our wide  
range of materials  
used, you can find the  
right product for any  
application, which will  
not only meet with  
your patients' needs  
but also provide  
economic solutions.*

*In addition, the high  
quality standard of all  
Rüsch materials gua-  
rantees a maximum  
of security.*

*THE RIGHT SIZE FOR  
EVERY PATIENT*

*We offer you a com-  
prehensive range of  
sizes to choose from -  
especially in the fields  
of transurethral and  
suprapubic urinary  
drainage, ureteral  
stents and ureteral  
catheters.*

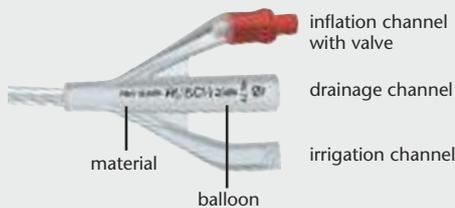
FOR ALL CASES.  
We provide a broad range of Foley catheters for transurethral urine drainage made from various materials, with various tips, in all the required sizes, for short- and long-term drainage and for post-operative use. No matter which Rüscher Foley catheter you choose, the ease and safety of handling and high patient comfort guarantee optimal patient care - in every case while remaining economical.

Whether for standard use or special uses, Rüscher always provides the right tip for ease of insertion.

The broad Rüscher programme - the correct catheter for every application, whether for short- or long-term use.

TIPS	
cylindrical	
Tiemann	
Couvelaire	
Dufour	
Mercier	
whistle tip	

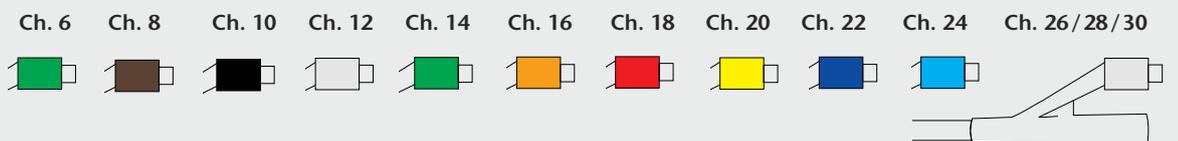
MATERIALS	DURATION OF USE IN WEEKS					
	1	2	3	4	5	6
<b>Silicone</b> <ul style="list-style-type: none"> <li>• biocompatible, biostable, non-allergenic</li> <li>• surface inhibits encrustation</li> <li>• high drainage capacity, also ideal for long-term use</li> <li>• safe and easy to insert</li> <li>• high patient comfort</li> </ul>	[Bar chart showing duration of use from week 1 to 6]					
<b>Silicone elastomer coated latex</b> <ul style="list-style-type: none"> <li>• abrasion-resistant coating inside and outside</li> <li>• flexible latex shaft</li> <li>• smooth surface inside and outside</li> <li>• reduced tendency to encrustation</li> <li>• can be left in longer</li> </ul>	[Bar chart showing duration of use from week 1 to 6]					
<b>Silkolates (latex)</b> <ul style="list-style-type: none"> <li>• particularly economical</li> </ul>	[Bar chart showing duration of use from week 1 to 6]					
<b>PVC</b> <ul style="list-style-type: none"> <li>• efficient drainage</li> <li>• safe and easy to insert</li> <li>• adapts to anatomical situation</li> <li>• efficient aspiration of blood clots and resected tissue</li> <li>• very good for postoperative use</li> </ul>	[Bar chart showing duration of use from week 1 to 6]					



Catheter external diameter, e.g.  
18 Charrière/French = 6 mm

EYE ARRANGEMENTS			
	1 eye		2 eyes, staggered
	2 opposing eyes		3 eyes, staggered
	2 eyes, side by side		over entire tip (TUR)

Colour code:



# 1 TRANSURETHRAL FOLEY CATHETERS

## 1.1 Standard 2-way drainage

<b>RÜSCH BRILLANT</b> Silicone						
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	17 06 05	cylindrical, solid tip				
		Ch. 12-24	10 ml	2 opposing eyes	approx. 41 cm	10
	17 13 05	Tiemann				
		Ch. 12-24	10 ml	1 eye	approx. 41 cm	5

Rüsch Brilliant Foley catheter made of silicone, transparent

- valve for Luer and Luer-lock syringe tips
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

<b>AQUAFLATE GLYCERINE</b> Silicone						
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	17 80 00	cylindrical, solid tip				
		Ch. 12-24	10 ml	2 opposing eyes	approx. 41 cm	5
	17 80 01	for WOMEN, cylindrical, solid tip				
		Ch. 12-24	10 ml	2 opposing eyes	approx. 23 cm	5
	17 83 05	Tiemann				
		Ch. 12-24	10 ml	1 eye	approx. 41 cm	5

AquaFlate Brilliant Foley catheter made of silicone, transparent, with prefilled syringe for balloon inflation

- prefilled syringe in sterile packaging (10ml sterile 10% glycerine solution)
- valve for Luer and Luer-lock syringe tips
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

<b>PROFILCATH*</b> Silicone with longitudinal grooves						
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	17 15 05	cylindrical, solid tip				
		Ch. 12-24	10 ml	2 opposing eyes	approx. 41 cm	5

Rüsch Brilliant Foley catheter made of silicone, transparent, with longitudinal grooves for drainage of urethral secretion

- valve for Luer and Luer-lock syringe tips
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

\* Ref. 17 15 05 with prefilled syringe in sterile packaging (10ml sterile 10% glycerine solution) available from 08/2009

**SiLaSil Foley catheter made of latex, inner and outer abrasion-resistant silicone elastomer coating, blue**

- abrasion-resistant silicone elastomer coating on the inside and outside
- valve for Luer and Luer-lock syringe tips
- sterile, single use

<b>SILASIL</b> Latex Silicone						
	<b>REF.</b>	<b>SIZE</b>	<b>BALLOON</b>	<b>EYES</b>	<b>LENGTH</b>	<b>QTY</b>
	18 60 05*	cylindrical				
		Ch. 12-24	5-15 ml	2 opposing eyes	approx. 40 cm	10
	<b>REF.</b>	<b>SIZE</b>	<b>BALLOON</b>	<b>EYES</b>	<b>LENGTH</b>	<b>QTY</b>
	18 65 05*	Tiemann				
		Ch. 12-24	5-15 ml	1 eye	approx. 40 cm	10

**Rüsch GOLD Foley catheter made of latex, yellow**

- valve for Luer and Luer-lock syringe tips
- for short-term drainage
- siliconised
- sterile, single use

<b>RÜSCH GOLD</b> Latex						
	<b>REF.</b>	<b>SIZE</b>	<b>BALLOON</b>	<b>EYES</b>	<b>LENGTH</b>	<b>QTY</b>
	18 06 05*	cylindrical				
		Ch. 12/14	5-10 ml	2 opposing eyes	approx. 40 cm	10
		Ch. 16-30	5-15 ml	2 opposing eyes	approx. 40 cm	10
	<b>REF.</b>	<b>SIZE</b>	<b>BALLOON</b>	<b>EYES</b>	<b>LENGTH</b>	<b>QTY</b>
	18 01 05*	for WOMEN, cylindrical				
		Ch. 12/14	5-10 ml	2 opposing eyes	approx. 25 cm	10
		Ch. 16-22	5-15 ml	2 opposing eyes	approx. 25 cm	10
	<b>REF.</b>	<b>SIZE</b>	<b>BALLOON</b>	<b>EYES</b>	<b>LENGTH</b>	<b>QTY</b>
	18 13 05*	Tiemann				
		Ch. 12/14	5-10 ml	1 eye	approx. 40 cm	10
		Ch. 16-24	5-15 ml	1 eye	approx. 40 cm	10

**SoftSimplastic Foley catheter made of PVC, transparent**

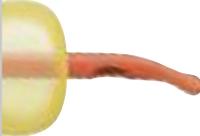
- thermosensitive
- valve for Luer and Luer-lock syringe tips
- red stripe
- latex balloon
- sterile, single use

<b>SOFTSIMPLASTIC</b> PVC						
	<b>REF.</b>	<b>SIZE</b>	<b>BALLOON</b>	<b>EYES</b>	<b>LENGTH</b>	<b>QTY</b>
	66 06 10*	cylindrical				
		Ch. 12-24	10 ml	2 opposing eyes	approx. 42 cm	10
	<b>REF.</b>	<b>SIZE</b>	<b>BALLOON</b>	<b>EYES</b>	<b>LENGTH</b>	<b>QTY</b>
	66 16 10*	Tiemann				
		Ch. 14-22	10 ml	1 eye	approx. 42 cm	10

\* These products contain natural rubber latex which may cause allergic reactions.

WHEN ORDERING, PLEASE ALWAYS INDICATE REF. AND SIZE

<b>WIRUTHAN®</b> Polyurethane						
	<b>Rüsch Foley catheter made of polyurethane, transparent</b> <ul style="list-style-type: none"> <li>• with latex Rüsch Gold balloon</li> <li>• valve for Luer and Luer-lock syringe tips</li> <li>• sterile, single use</li> </ul>					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	33 13 05*	Tiemann				
		Ch. 6/8	3 ml	1 eye	approx. 40 cm	5
Ch. 10/12	5 ml	1 eye	approx. 40 cm	5		

<b>ROBUSTA RUBBER</b> Rubber						
	<b>Foley catheter made of Robusta rubber, red</b> <ul style="list-style-type: none"> <li>• with latex coating</li> <li>• with latex Rüsch Gold balloon</li> <li>• valve for Luer and Luer-lock syringe tips</li> <li>• sterile, single use</li> </ul>					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	20 16 61*	Tiemann				
		Ch. 10	3-5 ml	1 eye	approx. 40 cm	10
Ch. 12-24	5-15 ml	1 eye	approx. 40 cm	10		

\* These products contain natural rubber latex which may cause allergic reactions.

## THE RIGHT MATERIAL FOR EVERY USE

### Silicone - ideal for long-term use

Rüsch Brilliant Foley catheters, made of pure colourless silicone, are distinguished by their smooth surface, both on the outer and inner lumen. Combined with the inertness of the material, urethral irritation and encrustation are largely avoided. Silicone also possesses high biocompatibility and biostability. Spontaneous reactions in the patient due to the material are unknown.

Because of its good tolerability, silicone is the ideal catheter material, even for long-term use. The strong and yet highly flexible material ensures easy and safe passage, offers a high degree of comfort and allows high drainage capacity.

The transparency of the silicone facilitates visual assessment of the inner lumen and allows a decision to be made about whether a catheter change is necessary.

In the silver-coated version (SSC-Cath), the silicone catheters offer further protection against the development of biofilm on the catheter surface. Rüsch silicone Foley catheters are characterised by outstanding cost effectiveness due to their excellent long-term characteristics.

### Latex\*

The material used for Rüsch GOLD Foley catheters, consists of a natural latex compound. This material is the one most commonly used for standard as well as postoperative applications.

### SiLaSil - latex\* coated with silicone elastomer

The structure of the silicone coating gives these catheters their name: SiLaSil = silicone layer - latex core - silicone layer. The latex shaft provides high flexibility. The abrasion-resistant smooth silicone coating reduces the possibility of encrustation and increases the indwelling time. Thus, SiLaSil catheters combine the positive characteristics of latex and silicone and provide high patient comfort with good cost effectiveness.

### PVC - ideal for postoperative use

The high-quality thermosensitive material is particularly suitable for post-operative irrigation and drainage catheters. The plastic is still firm during introduction, which facilitates catheterisation.

The effect of heat from body contact makes PVC flexible, so the catheter can adapt optimally to the patient's anatomy. This increases patient comfort.

The very large internal diameters relative to the outer diameters ensure high drainage capacity. Stable catheter walls allow safe irrigation and offer high resistance to collapse during aspiration of blood clots and resected tissue.

\* Latex catheters must not be used in sensitised persons who can have an allergic reaction to components of these products.

## 1.2 Catheters for postoperative drainage, 2- and 3-way

Rüsch Brillant Foley catheter  
made of silicone, transparent

Catheter for postoperative  
drainage, 2-way

- valve for Luer and Luer-lock syringe tips
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

RÜSCH BRILLANT Silicone						
REF.	SIZE	BALLOON	EYES	LENGTH	QTY	
17 06 30	cylindrical, solid tip					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	10	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	10	
17 25 30	Couvelaire					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	5	

SoftSimplastic Foley catheter  
made of PVC, transparent

Catheter for postoperative  
drainage, 2-way

- thermosensitive
- valve for Luer and Luer-lock syringe tips
- red stripe
- latex balloon
- sterile, single use

SOFTSIMPLASTIC PVC						
REF.	SIZE	BALLOON	EYES	LENGTH	QTY	
66 06 30*	cylindrical					
	Ch. 14-26	30 ml	2 opposing eyes	approx. 42 cm	10	
66 16 30*	Tiemann					
	Ch. 14-22	30 ml	1 eye	approx. 42 cm	10	
66 25 30*	Couvelaire					
	Ch. 16-24	30 ml	2 opposing eyes	approx. 42 cm	10	
66 25 75*	Ch. 18-24	75 ml	2 opposing eyes	approx. 42 cm	10	
66 26 30*	Dufour					
	Ch. 18-24	30 ml	2 eyes, staggered	approx. 42 cm	10	
66 26 75*	Ch. 18-24	75 ml	2 eyes, staggered	approx. 42 cm	10	
66 24 30*	Mercier					
	Ch. 14-24	30 ml	2 eyes, staggered	approx. 42 cm	10	
66 36 30*	whistle tip					
	Ch. 14-26	30 ml	1 eye	approx. 42 cm	10	

\* These products contain natural rubber latex which may cause allergic reactions.

<b>RÜSCH GOLD</b> Latex						
	<p>Rüsch GOLD Foley catheter made of latex, yellow</p> <p>Catheter for postoperative drainage, 2-way</p> <ul style="list-style-type: none"> <li>• valve for Luer and Luer-lock syringe tips</li> <li>• siliconised</li> <li>• sterile, single use</li> </ul>					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	18 06 30*	cylindrical				
Ch. 12/14		30 ml	2 opposing eyes	approx. 40 cm	10	
	18 13 30*	Tiemann				
		Ch. 14-24	30-50 ml	1 eye	approx. 40 cm	10

<b>RÜSCH GOLD, ARMoured</b> Armoured latex						
	<p>Rüsch GOLD Foley catheter made of latex, armoured, yellow</p> <p>Catheter for postoperative drainage, 2-way</p> <ul style="list-style-type: none"> <li>• valve for Luer and Luer-lock syringe tips</li> <li>• siliconised</li> <li>• sterile, single use</li> </ul>					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	18 35 30*	cylindrical				
Ch. 18-24		30-50 ml	2 eyes, staggered	approx. 40 cm	10	

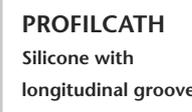
The spiral in the wall enables the greatest flexibility possible, a consistently large lumen and high tension.

<b>ROBUSTA RUBBER</b> Rubber						
	<p>Foley catheter made of Robusta rubber, red</p> <p>Catheter for postoperative drainage, 2-way</p> <ul style="list-style-type: none"> <li>• with latex coating</li> <li>• with latex Rüsch Gold balloon</li> <li>• valve for Luer and Luer-lock syringe tips</li> <li>• sterile, single use</li> </ul>					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	20 16 65*	Tiemann				
Ch. 12-26		30-50 ml	1 eye	approx. 40 cm	10	
	20 22 01*	Delinotte, Mercier tip				
		Ch. 18-24	50 ml	2 eyes, staggered	approx. 40 cm	5
	20 26 00*	Dufour				
		Ch. 16-24	50 ml	2 eyes, staggered	approx. 40 cm	5

**Rüsch Brillant Foley catheter**  
made of silicone,  
transparent

Catheter for postoperative  
drainage, 3-way

- valve for Luer and Luer-lock syringe tips
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

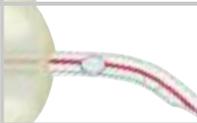
<b>RÜSCH BRILLANT</b> Silicone						
REF.	SIZE	BALLOON	EYES	LENGTH	QTY	
17 38 30	<b>cylindrical, solid tip</b>					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	5	
						
17 38 10	<b>Couvelaire</b>					
	Ch. 16/18	80 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 20-24	100 ml	2 eyes, staggered	approx. 41 cm	5	
						
17 39 30	<b>Couvelaire</b>					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	5	
						
17 39 10	<b>Couvelaire</b>					
	Ch. 16/18	80 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 20-24	100 ml	2 eyes, staggered	approx. 41 cm	5	
						
17 40 30	<b>Dufour</b>					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	5	
						
17 41 30	<b>Mercier</b>					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	5	
						

**ProfilCath**  
Rüsch Brillant Foley catheter  
made of silicone, transpa-  
rent, with longitudinal  
grooves for drainage of  
urethral secretion

Catheter for postoperative  
drainage, 3-way

- valve for Luer and Luer-lock syringe tips
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

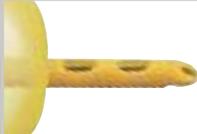
<b>PROFILCATH</b> Silicone with longitudinal grooves						
REF.	SIZE	BALLOON	EYES	LENGTH	QTY	
17 34 30	<b>cylindrical, solid tip</b>					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	5	
						
17 32 30	<b>Couvelaire</b>					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	5	
						
17 33 30	<b>with instillation lumen for medical treatment of the urethra, instillation opening below the balloon, cylindrical, solid tip</b>					
	Ch. 18/20	20 ml	2 eyes, staggered	approx. 41 cm	5	
	Ch. 22/24	30 ml	2 eyes, staggered	approx. 41 cm	5	
						

SOFTSIMPLASTIC PVC							
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY	
	66 43 30*	cylindrical	Ch. 18-24	30 ml	2 eyes, side by side	approx. 42 cm	10
		Couvelaire		Ch. 16-24	30 ml	2 opposing eyes	approx. 42 cm
	66 41 30* 66 41 76*	Ch. 18-24	75 ml	2 opposing eyes	approx. 42 cm	10	
	Dufour		Ch. 18-22	30 ml	2 eyes, staggered	approx. 42 cm	10
	66 45 30* 66 45 75*	Ch. 18-24	75 ml	2 eyes, staggered	approx. 42 cm	10	
	Mercier, Ref. 664230: 2 eyes in front and 1 eye behind balloon		Ch. 20-24	30 ml	2 eyes, staggered	approx. 42 cm	10
	66 42 30* 66 42 75*	Ch. 18-24	75 ml	2 eyes, staggered	approx. 42 cm	10	
	whistle tip		Ch. 18-24	30 ml	2 eyes, side by side	approx. 42 cm	10
	66 32 30*						

SoftSimplastic Foley catheter made of PVC, transparent

Catheter for postoperative drainage, 3-way

- thermosensitive
- valve for Luer and Luer-lock syringe tips
- red stripe
- latex balloon
- sterile, single use

RÜSCH GOLD Latex							
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY	
	18 34 05*	cylindrical	Ch. 18-26	5-15 ml	2 eyes, side by side	approx. 40 cm	10
		cylindrical		Ch. 18-26	30-50 ml	2 eyes, side by side	approx. 40 cm
	18 34 30*						
	whistle tip		Ch. 18-24	30-50 ml	2 eyes, side by side	approx. 40 cm	10
	18 32 30*						

Rüsch GOLD Foley catheter made of latex, yellow

Catheter for postoperative drainage, 3-way

- valve for Luer and Luer-lock syringe tips
- siliconised
- sterile, single use

\* These products contain natural rubber latex which may cause allergic reactions.

Rüsch GOLD Foley catheter made of latex, armoured, yellow

Catheter for postoperative drainage, 3-way

- valve for Luer and Luer-lock syringe tips
- siliconised
- sterile, single use

RÜSCH GOLD, ARMoured Armoured latex						
REF.	SIZE	BALLOON	EYES	LENGTH	QTY	
18 38 30*	<b>cylindrical</b>					
	Ch. 18-24	30-50 ml	2 eyes, side by side	approx. 40 cm	10	
18 39 60*	<b>Couvelaire</b>					
	Ch. 18-24	30-50 ml	2 eyes, staggered	approx. 40 cm	10	
18 39 30*	<b>whistle tip</b>					
	Ch. 18-24	30-50 ml	2 eyes, side by side	approx. 40 cm	10	
18 41 10*	<b>TUR catheter, cylindrical, Mercier tip, drainage holes over the whole tip</b>					
	Ch. 18-24	50-100 ml		approx. 40 cm	10	

The spiral in the wall enables the greatest flexibility possible, a consistently large lumen and high tension.

Foley catheter made of Robusta rubber, red

Catheter for postoperative drainage, 3-way

- with latex coating
- with latex Rüsch Gold balloon
- valve for Luer and Luer-lock syringe tips
- sterile, single use

ROBUSTA RUBBER Rubber						
REF.	SIZE	BALLOON	EYES	LENGTH	QTY	
20 45 00*	<b>Dufour</b>					
	Ch. 16-26	50 ml	2 eyes, staggered	approx. 40 cm	5	
20 45 02*	Ch. 18-24	50-100 ml	2 eyes, staggered	approx. 40 cm	5	
20 44 01*	<b>Froh Müller, Mercier tip (Ref. 20 44 10 enlarged balloon circumference)</b>					
	Ch. 18-26	50 ml	3 eyes, staggered	approx. 40 cm	5	
20 44 10*	Ch. 20-26	50-100 ml	3 eyes, staggered	approx. 40 cm	5	

**Tip:** For safety reasons, all our balloons with a capacity of up to 100ml (100ml balloon) have a slightly enlarged circumference.

### 1.3 Foley catheters for children

<b>RÜSCH BRILLANT</b> Silicone 						
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	17 00 03	cylindrical, with stylet, solid tip				
		Ch. 6	1.5 ml	2 opposing eyes	approx. 31 cm	5
		Ch. 8	3 ml	2 opposing eyes	approx. 31 cm	5
	17 00 04	Tiemann, with stylet				
		Ch. 8	3 ml	1 eye	approx. 31 cm	5
		Ch. 10	5 ml	1 eye	approx. 31 cm	5

**Rüsch Brillant Foley catheter made of silicone, transparent**

- valve for Luer and Luer-lock syringe tips
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

<b>AQUAFATE GLYCERINE</b> Silicone 						
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	17 80 03	cylindrical, with stylet, solid tip				
		Ch. 6	1.5 ml	2 opposing eyes	approx. 31 cm	5
		Ch. 8	3 ml	2 opposing eyes	approx. 31 cm	5
	17 80 04	Tiemann, with stylet				
		Ch. 8	3 ml	1 eye	approx. 31 cm	5
		Ch. 10	5 ml	1 eye	approx. 31 cm	5

**AquaFate Brillant Foley catheter made of silicone, transparent, with prefilled syringe for balloon inflation**

- prefilled syringe in sterile packaging (1.5, 3 or 5 ml sterile 10% glycerine solution)
- valve for Luer and Luer-lock syringe tips
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

<b>RÜSCH GOLD</b> Latex 						
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	18 00 03*	cylindrical, with stylet				
		Ch. 8/10	3 ml	2 opposing eyes	approx. 30 cm	10

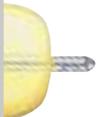
**Rüsch GOLD Foley catheter made of latex, yellow**

- valve for Luer and Luer-lock syringe tips
- for short-term drainage
- siliconised
- sterile, single use

\* These products contain natural rubber latex which may cause allergic reactions.

**Rüsch Foley catheter made of polyurethane, transparent**

- latex Rüsch Gold balloon
- valve for Luer and Luer-lock syringe tips
- sterile, single use

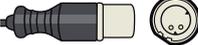
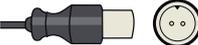
	<b>WIRUTHAN®</b> Polyurethane 					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	33 15 05*	cylindrical				
		Ch. 6/8	3 ml	1 eye	approx. 25 cm	5
		Ch. 10/12	5 ml	1 eye	approx. 25 cm	5

\* These products contain natural rubber latex which may cause allergic reactions.

**Rüsch Sensor Foley catheter for temperature measurement made of silicone, transparent**

- colour-coded valve for Luer and Luer-lock syringe tips
- with prefilled syringe in sterile packaging (3 ml/5 ml sterile 10% glycerine solution)
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

	<b>RÜSCH SENSOR</b> Silicone 					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	17 93 60	cylindrical				
		Ch. 8	3 ml	2 opposing eyes	approx. 30 cm	5
		Ch. 10	5 ml	2 opposing eyes	approx. 30 cm	5

	REF.	BRILLANT ADAPTER CABLES	LENGTH	QTY
	17 93 12	Hospital plug, 6.3 mm for Siemens, Dräger, Datex, Hellige, etc.	5.0 m	1
	17 93 13	Siemens round plug, 7-pole	3.5 m	1
	17 93 14	HP round plug, 2-pole, for Hewlett Packard	5.0 m	1
	17 93 16	Cool Gard CG 3000, 2-pole	5.0 m	1

Note: All Rüsch adapter cables are equipped with a towel clamp.

WHEN ORDERING, PLEASE ALWAYS INDICATE REF. AND SIZE

### 1.4 Special catheters

<b>CATHETER FOR THE NEOBLADDER</b> Silicone						
		REF.	SIZE	BALLOON	EYES	LENGTH
	17 34 20	central, open, tip approx. 4 cm				
		Ch. 20	20 ml	6 opposing eyes	approx. 40 cm	5
		Ch. 22	30 ml	6 opposing eyes	approx. 40 cm	5

Balloon catheter for the neobladder, for postoperative drainage, made of silicone, transparent, with longitudinal grooves for drainage of urethral secretion, 3-way

- valve for Luer and Luer-lock syringe tips
- sterile, single use
- latex-free

<b>SSC-CATH</b> Silicone						
		REF.	SIZE	BALLOON	EYES	LENGTH
	17 05 05	cylindrical, solid tip				
		Ch. 12-24	10 ml	2 opposing eyes	approx. 41 cm	5

SSC-Cath, Foley catheter made of silicone, transparent, silver-coated, 2-way

- valve for Luer and Luer-lock syringe tips
- sterile, single use
- latex-free

Nosocomial urinary tract infections are caused, in at least 80% of all cases, by indwelling catheters; on the catheter surface, a biofilm develops the longer the catheter is in situ. Silver coating on the surface or silver impregnation of the catheter can prevent or delay the development of the biofilm.

<b>RÜSCH SENSOR</b> Silicone						
		REF.	SIZE	BALLOON	EYES	LENGTH
	17 93 60	cylindrical				
		Ch. 8	3 ml	2 opposing eyes	approx. 30 cm	5
		Ch. 10	5 ml	2 opposing eyes	approx. 30 cm	5
		Ch. 12-18	10 ml	2 opposing eyes	approx. 44 cm	5

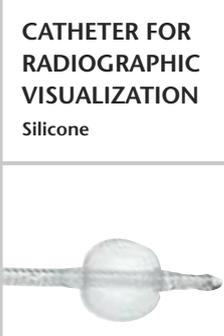
Rüsch Sensor Foley catheter for temperature measurement made of silicone, transparent, 2-way

- colour-coded valve for Luer and Luer-lock syringe tips
- with prefilled syringe in sterile packaging (3 ml/5 ml/10 ml sterile 10 % glycerine solution)
- radiopaque tip and contrast stripe
- sterile, single use
- latex-free

Adapter cables see p. 12

Catheter for radiographic visualization of the female urethra, made of silicone, transparent, 2-way

- valve for Luer and Luer-lock syringe tips
- freely movable cone
- radiopaque tip
- transparent
- sterile, single use
- latex-free

	<b>CATHETER FOR RADIOGRAPHIC VISUALIZATION</b> Silicone					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	17 37 05	cylindrical, 3 drainage openings for X-ray contrast medium				
		Ch. 14	10 ml	2 opposing eyes	approx. 40 cm	1

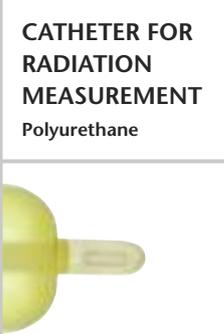
Chain catheter for radiological visualization of the female urethra. Contrast medium injection, X-ray visualization, and urine specimen collection with one and the same instrument.

- Contrast medium injector made of stainless steel with Luer-lock fitting made of PVC (approx. 28 cm long)
- Insertion guidewire made of stainless steel (approx. 32.5 cm long)
- Fixation disc made of silicone
- sterile, single use

	<b>CHAIN CATHETER</b>					
	REF.	MATERIAL	SIZE	LENGTH	QTY	
	34 55 00	Chain catheter			2	
		Insertion probe, white polyurethane	Ch. 7	5 cm		
		Chromium-plated brass chain	Ch. 12	16 cm		
		Insertion sheath, green polyurethane	Ch. 7	24 cm		

Catheter for radiation measurement, made of polyurethane, 2-way

- valve for Luer and Luer-lock syringe tips
- latex balloon
- sterile, single use

	<b>CATHETER FOR RADIATION MEASUREMENT</b> Polyurethane					
	REF.	SIZE	BALLOON	EYES	LENGTH	QTY
	33 34 64*					
		Ch. 18	10 ml		approx. 41 cm	1

\* These products contain natural rubber latex which may cause allergic reactions.

## 1.5 Accessories

	REF. 20 45 01 QTY 5	<b>Adjustable flange</b> to fix haemostatic catheters • for Ch. 24 • sterile		REF. 55 60 00 QTY 10	<b>SILKOSPRAY®</b> • prevents encrustation of rubber, latex and PVC devices and also prevents them from sticking to the mucosa • The propellant used contains no CFCs and complies with environmental regulations.
	REF. 54 60 00 QTY 1	<b>Catheter stylet, made of metal</b> • diameter 2.5 mm • approx. 55 cm long • unsterile		REF. 18 75 01 18 75 02 QTY 50	<b>Perineal drape, made of plastic</b> • without adhesive tape • with adhesive tape • sterile • latex-free
	REF. 54 80 00 QTY 100	<b>Catheter plug, made of blue PVC</b> • for Ch. 7 - 30 • unsterile • latex-free		REF. 85 05 50 QTY 10	<b>SilFlate, prefilled syringe*</b> • with sterile 10% aqueous glycerine solution • 10 ml • sterile  * Attention: To inflate silicone Foleys only!
	REF. 54 85 00 QTY 50	<b>Catheter plug, made of blue PVC</b> • for Ch. 7 - 30 • individual packaging • blunt-nosed • sterile • latex-free			

## 2 BLADDER CATHETERS WITHOUT BALLOON

### 2.1 Catheters made of PVC

2

**Catheters made of PVC**

- red
- with funnel
- sterile
- latex-free

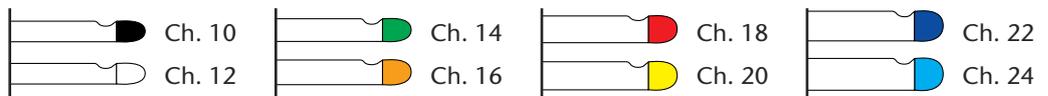
CATHETERS PVC					
	REF.	SIZE	EYES	LENGTH	QTY
	25 01 00	<b>aseptic solid tip</b>			
		Ch. 6-22	1 eye	approx. 37 cm	5
	25 15 00	<b>olive tip</b>			
		Ch. 8-18	1 eye	approx. 37 cm	5
	25 20 00	<b>Mercier pattern</b>			
		Ch. 8-24	1 eye	approx. 37 cm	5
	25 48 00	<b>Couvelaire pattern, whistle tip</b>			
		Ch. 14-26	2 eyes, staggered	approx. 37 cm	10
	25 97 00	<b>Tiemann pattern</b>			
		Ch. 6-24	1 eye	approx. 37 cm	5

**Catheters for women,  
made of PVC**

- transparent
- without funnel
- sterile
- latex-free

CATHETERS FOR WOMEN PVC					
	REF.	SIZE	EYES	LENGTH	QTY
	22 00 05	<b>cylindrical tip, siliconised, double packed, size acc. to colour code</b>			
		Ch. 8-16	1 eye	approx. 16 cm	50
	22 00 06	<b>cylindrical tip, siliconised, simple packed, size acc. to colour code</b>			
		Ch. 8-16	1 eye	approx. 16 cm	50
	23 83 00	<b>cylindrical tip, simple packed</b>			
		Ch. 8-16	2 eyes, staggered	approx. 18 cm	100

Charrière size according to following colour code:



WHEN ORDERING, PLEASE ALWAYS INDICATE REF. AND SIZE

CATHETERS PVC					
	REF.	SIZE	EYES	LENGTH	QTY
	22 05 00	Nelaton-Robinson, cylindrical solid tip, aseptic, siliconised, size acc. to colour code			
		Ch. 10-24	2 eyes, staggered	approx. 40 cm	50
	23 85 00	Nelaton-Robinson, cylindrical tip, size acc. to colour code on funnel			
		Ch. 10-24	2 eyes, staggered	approx. 40 cm	100
	22 15 00	Couvelaire pattern, whistle tip, siliconised			
		Ch. 16-26	2 eyes, staggered	approx. 40 cm	10
	22 18 00	Tiemann pattern, aseptic solid tip, siliconised, size acc. to colour code			
		Ch. 12-24	2 eyes, staggered	approx. 40 cm	50
	22 19 00	Tiemann pattern, aseptic solid tip, silic., double packed, size acc. to colour code			
		Ch. 12-24	2 eyes, staggered	approx. 40 cm	50

**Catheters made of PVC**

- transparent
- with funnel
- sterile
- latex-free

## 2.2 Catheters made of rubber

NELATON CATHETERS Soft rubber					
	REF.	SIZE	EYES	LENGTH	QTY
	40 21 00*	aseptic solid tip			
		Ch. 6-10 / 12-30	1 eye	approx. 40 cm	10
	40 21 01*	aseptic solid tip			
		Ch. 6-10 / 12-30	2 eyes, staggered	approx. 40 cm	10
	40 33 00*	Robinson pattern, hollow tip			
		Ch. 8-24	2 eyes, staggered	approx. 40 cm	10
	40 39 00*	whistle tip			
		Ch. 8-22	1 eye	approx. 40 cm	10
	40 43 00*	central opening			
		Ch. 6-26	1 eye	approx. 40 cm	10

**Nelaton catheters made of soft rubber**

- red
- cylindrical
- with funnel

\* These products contain natural rubber latex which may cause allergic reactions.

**Tiemann catheters  
made of ROBUSTA rubber**

- red
- with funnel
- sterile

TIEMANN CATHETERS ROBUSTA rubber						
	REF.	SIZE	EYES	LENGTH	QTY	
	41 02 00*	aseptic solid tip				
		Ch. 7-10 / 12-28	1 eye	approx. 40 cm	10	
	41 02 01*	aseptic solid tip				
		Ch. 7-10 / 12-26	2 eyes, staggered	approx. 40 cm	10	

**Self-retaining catheters  
made of latex**

- red
- with funnel
- sterile

SELF-RETAINING CATHETERS Latex						
	REF.	SIZE	WINGS	LENGTH	QTY	
	41 51 00*	Pezzer pattern				
		Ch. 10-44	-	approx. 35 cm	5	
	41 56 00*	Casper pattern				
		Ch. 10-40	4	approx. 40 cm	5	
	41 57 00*	Malecot pattern				
		Ch. 10-28	2	approx. 40 cm	5	

\* These products contain natural rubber latex which may cause allergic reactions.

### 3 BLADDER CATHETERIZATION SET

#### 3.1 Description

	<b>Sterile contents:</b> 1 x water-proof sterile paper cloth, approx. 76 x 46 cm 1 x kidney tray 1 x pair of vinyl gloves XL 1 x PE glove XL 1 x plastic tray with 6 gauze swabs 2 x gauze compresses 8 x 7.5 cm 1 x water-proof drape with slit, approx. 76 x 46 cm 1 x plastic tweezers 1 x sachet with 5 g water-soluble lubricant	<b>BLADDER CATHETERIZATION SET</b>				
	<table border="1"> <thead> <tr> <th>REF.</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">18 75 00</td> <td style="text-align: center;">20</td> </tr> </tbody> </table>	REF.	QTY	18 75 00	20	
REF.	QTY					
18 75 00	20					

About 90% of all urinary tract infections are caused by urinary drainage. The risk of bacteriuria or urinary tract infection for patients with a transurethral Foley catheter increases by 3 to 10 % every day during indwelling time. Apart from the health risks for the patient himself, such infections also present a big economic problem. Each transurethral application can lead to contamination with microbes. It is therefore important, that catheterization is carried out under aseptic conditions, i.e. all measures applied during this procedure must be of sterile nature.

#### 3.2 Application

**NOTE:** All materials needed for bladder catheterization must be prepared using aseptic techniques. With the help of a second person preparation and application are made easier.

**RECOMMENDATIONS:**

After informing the patient about the forthcoming bladder catheterization, hygiene of the intimate areas should be carried out. The patient is then placed in flat dorsal position. Ask women to tuck up their legs and place their feet in a straddled position. Place a cloth under the patient's buttocks. Finally, disinfect your hands.



**STEP 1: PREPARATION**

- 1 Open the set; the outer peel-back can be kept and used as refuse bag. Spread out the inner packaging to serve as a sterile work surface.
- 2 Put on the vinyl gloves, then the PE glove.
- 3 The helping second person can make sure that all additional material used is sterile and can douse the 6 gauze swabs in the small plastic tray with disinfectant for the mucosa. If necessary, the Foley catheter can be connected to the closed urine collector before application.

**STEP 2: DRAPE WITH SLIT**

- 1 Using aseptic technique, the drape with slit is now placed on the patient with the foil side down. In the case of women, the slit should point to their feet, and with men it should point to their head.



- 2 The kidney tray is now placed between the legs of women, and on the legs of men.

**STEP 3: DISINFECTION**

Disinfection of the outer genitals. Use every swab only once!



**PROCEDURE WITH WOMEN**

- (after hygiene of the intimate areas if necessary):
1. and 2. swab: disinfection of labium majus (labia l. and r.)  
**Always from front to back!**
  3. and 4. swab: disinfection of nymphae (labia l. and r.)  
**Always from front to back!**
  5. swab: disinfection of urethra
  6. swab: cover the vaginal entrance if necessary



**PROCEDURE WITH MEN**

- (after hygiene of the intimate areas if necessary):
- Pull back prepuce (foreskin). Disinfect glans penis all around, from urethra to the body, using all 6 swabs.

**STEP 4: CATHETERIZATION**

- 1 After disinfection, take off the PE glove.  
**Make sure that the two other gloves remain sterile.**
- 2 Wet the catheter tip sufficiently with the water-soluble lubricant.
- 3 Carefully insert the catheter with your hand or with the plastic tweezers into the urethra until urine starts flowing.
- 4 In the case of indwelling Foley catheters, advance the catheter until the balloon is safely positioned in the bladder. Fill the balloon with the maximum volume indicated on the catheter funnel and pull the catheter back until slight resistance can be felt. **We recommend to fill the balloons with sterile water. Balloons of silicone Foleys should preferably be filled with a sterile 10% glycerine solution.** If an indwelling Foley catheter is used and it has not yet been connected to a sterile closed urine collector, this must be done now.
- 5 With men, the foreskin must be repositioned after catheterization.

**STEP 5: COMPLETION**

- Dry the genital area if necessary.
- Fasten the urine collector to the bed, always below the bladder level.
- Dispose of all materials in an environmentally suitable manner.
- Carry out final hand disinfection!



## 4 SUPRAPUBIC URINE DRAINAGE

### 4.1 Sets for application with adults and children

4

<b>EASYCYST ADULT</b>  <p>* The puncture set Ref. 17 07 18 in Ch. 8 is supplied with a 30 mm long spacer.</p>	The economical catheter made of polyurethane for short and medium-term care		
	REF.	SIZE	QTY
17 07 18*	Puncture set		
	Ch. 8/10/12/14/16		10
17 07 17	Exchange set		
	Ch. 8/10/12/14/16		10
<b>With pigtail - without balloon</b> <ul style="list-style-type: none"> <li>• good drainage capacity even with small outer diameters due to minimum wall thickness</li> <li>• good compatibility due to low encrustation tendency</li> <li>• minimum irritation of the bladder mucosa due to the pigtail tip in the bladder</li> <li>• reduced invasiveness due to the small outer diameter (no balloon)</li> <li>• safe attachment by suture without significant constriction of the lumen due to shape-retaining polyurethane</li> </ul>			

<b>SUPRAFLEX ADULT</b> 	The long-term catheter made of silicone with the greatest possible comfort during wear		
	REF.	SIZE	QTY
17 07 03	Puncture set		
	Ch. 10/12/14/16		5
17 07 04	Exchange set		
	Ch. 10/12/14/16		5
<b>With pigtail - and balloon</b> <ul style="list-style-type: none"> <li>• extremely high drainage capacity even during long-term usage due to low encrustation tendency and large drainage eyes on the inner side of the pigtail</li> <li>• greatest possible comfort during wear due to elasticity and biological compatibility</li> <li>• minimal irritation of the bladder mucosa due to the pigtail tip in the bladder</li> <li>• no suture necessary as secured by the balloon: minimally invasive</li> </ul>			

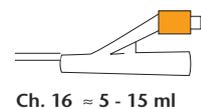
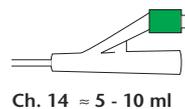
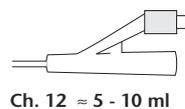
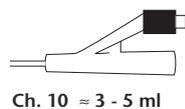
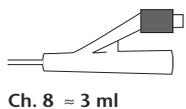
<b>SILFLATE</b> prefilled syringe* 	REF.	FILL VOLUME	QTY
	85 05 50	SilFlate	10 ml
<ul style="list-style-type: none"> <li>• with sterile 10% aqueous glycerine solution</li> <li>• 10 ml</li> <li>• sterile</li> </ul> <p>*Attention: To inflate silicone balloons only!</p>			

<b>SUPRACATH ADULT</b>  <p>* SUPRACATH single catheters Ref. 17 06 06 ideally fit our puncture instruments TROCAFIX on page 23.</p>	The economical product made of silicone for long-term care		
	REF.	SIZE	QTY
17 07 27	Puncture set		
	Ch. 8/10/12/14/16		5
17 07 29	Exchange set		
	Ch. 8/10/12/14/16		5
17 06 06*	Single catheter		
	Ch. 8/10/12/14/16/18		10
<b>With centrally open tip - and balloon</b> <ul style="list-style-type: none"> <li>• high drainage capacity even during long-term care due to extremely low encrustation tendency</li> <li>• greatest possible comfort during wear due to elasticity and biological compatibility</li> <li>• exceptionally simple and quick catheter change via a guidewire due to the centrally open, straight tip</li> <li>• no suture necessary as secured by the balloon: minimally invasive</li> </ul>			

<b>EASYCYST INFANT</b> 	The economical catheter made of polyurethane for short and medium-term care of children															
		<table border="1"> <thead> <tr> <th>REF.</th> <th>SIZE</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td rowspan="2">17 07 23</td> <td>Puncture set</td> <td></td> </tr> <tr> <td>Ch. 5</td> <td>10</td> </tr> <tr> <td rowspan="2">17 07 22</td> <td>Exchange set</td> <td></td> </tr> <tr> <td>Ch. 5</td> <td>10</td> </tr> </tbody> </table>	REF.	SIZE	QTY	17 07 23	Puncture set		Ch. 5	10	17 07 22	Exchange set		Ch. 5	10	<p><b>With pigtail - without balloon</b></p> <ul style="list-style-type: none"> <li>• good drainage capacity even with small outer diameters due to minimum wall thickness</li> <li>• good compatibility due to low encrustation tendency</li> <li>• minimum irritation of the bladder mucosa due to the pigtail tip in the bladder</li> <li>• reduced invasiveness due to the small outer diameter (no balloon)</li> <li>• safe attachment by suture without significant constriction of the lumen to shape-retaining polyurethane</li> </ul>
REF.	SIZE	QTY														
17 07 23	Puncture set															
	Ch. 5	10														
17 07 22	Exchange set															
	Ch. 5	10														

<b>SUPRAFLEX INFANT</b> 	The long-term catheter for children made of silicone with the greatest possible comfort during wear										
		<table border="1"> <thead> <tr> <th>REF.</th> <th>SIZE</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td rowspan="2">17 07 02</td> <td>Puncture set</td> <td></td> </tr> <tr> <td>Ch. 8/10</td> <td>5</td> </tr> </tbody> </table>	REF.	SIZE	QTY	17 07 02	Puncture set		Ch. 8/10	5	<p><b>With pigtail - without balloon</b></p> <ul style="list-style-type: none"> <li>• extremely high drainage capacity even during long-term usage due to low encrustation tendency and large drainage eyes on the inner side of the pigtail</li> <li>• greatest possible comfort during wear due to elasticity and biological compatibility</li> <li>• minimal irritation of the bladder mucosa due to the pigtail tip in the bladder</li> </ul>
REF.	SIZE	QTY									
17 07 02	Puncture set										
	Ch. 8/10	5									

Colour-coded puncture needles, catheter and balloon sizes



## 4.2 An overview of the sets

### PUNCTURE SETS

Puncture sets contain the major components required for first use. Reliable size identification due to colour-coded catheter and puncture needle provides immediate information regarding the drainage capacity.

**Contents:**

- Catheter
- Urine bag<sup>①</sup> (not EasyCyst Infant)
- Easily splittable puncture cannula
- Scalpel (not EasyCyst Infant)
- Adhesive tape
- Clamp or plug



4

REF.	DESIGNATION	CATHETER				SIZES	PUNCTURE NEEDLE Punct. length	QTY
		Design	Balloon	Material	Length			
17 07 18 <sup>②</sup>	EASYCYST	Pigtail	–	polyurethane	550 mm	Ch. 8	80 mm	10
17 07 18	EASYCYST	Pigtail	–	polyurethane	550 mm	Ch. 10/12/14/16	120 mm	10
17 07 03	SUPRAFLEX	Pigtail	balloon	silicone	510 mm	Ch. 10/12/14/16	120 mm	5
17 07 27	SUPRACATH	Short, straight tip	balloon	silicone	410 mm	Ch. 8/10/12/14/16	120 mm	5
17 07 23	EASYCYST INFANT	Pigtail	–	polyurethane	500 mm	Ch. 5	70 mm	10
17 07 02	SUPRAFLEX INFANT	Pigtail	–	silicone	510 mm	Ch. 8	80 mm	5
17 07 02	SUPRAFLEX INFANT	Pigtail	–	silicone	510 mm	Ch. 10	120 mm	5

<sup>①</sup> 2-litre urine bag with anti-reflux valve and one-hand operation of T-tap outlet.

<sup>②</sup> The puncture set Ref. 17 07 18 in Ch. 8 is supplied with a 30 mm long spacer.

### EXCHANGE SET

Exchange sets enable a safe and quick catheter change by means of the enclosed guidewire. Reliable size identification due to colour-coded catheter provides immediate information regarding the drainage capacity.

**Contents:**

- Catheter
- Guidewire with PTFE coating
- Adhesive tape
- Clamp or plug

REF.	DESIGNATION	CATHETER				SIZES	GUIDEWIRE Length	QTY
		Design	Balloon	Material	Length			
17 07 17	EASYCYST	Pigtail	–	polyurethane	550 mm	Ch. 8/10/12/14/16	1000 mm	10
17 07 04	SUPRAFLEX	Pigtail	balloon	silicone	510 mm	Ch. 10/12/14/16	1000 mm	5
17 07 29	SUPRACATH	Short, straight tip	balloon	silicone	410 mm	Ch. 8/10/12/14/16	1000 mm	5
17 07 22	EASYCYST INFANT	Pigtail	–	polyurethane	500 mm	Ch. 5	1000 mm	10

WHEN ORDERING, PLEASE ALWAYS INDICATE REF. AND SIZE

### 4.3 Sets for emergency applications

<b>SIMPLASTIC</b>	Puncture and urine drainage within seconds		
	REF.	SIZES	QTY
	65 07 04	Puncture instrument	
		Ch. 10/12/16	5
	<p><b>Puncture instrument made of PVC for emergency applications</b></p> <ul style="list-style-type: none"> <li>• puncture and urine drainage in one step with integrated trocar and catheter</li> <li>• exactness of puncture thanks to integrated adjustable spacer</li> <li>• safe fixation of the catheter by means of balloon and fixing plate</li> </ul>		
	<p><b>SPEED WHEN EVERY SECOND COUNTS</b> Apply a local anaesthetic, make a small incision, and insert the puncture needle: urine can be drained immediately.</p>		

<b>TROCAFIX</b>	The re-usable puncture cannula made of stainless steel for use with various balloon catheters				
	<p>The accurate and regular graduations permit the selection of the puncture size to suit the patient.</p> <ul style="list-style-type: none"> <li>• the two-piece cannula made of stainless steel can be re-sterilized - and is therefore extremely economical in use</li> <li>• the hollow trocar guarantees quick and safe use: because of this, the guidewire can be inserted and the catheter can be placed easily</li> <li>• another advantage of the hollow trocar: urine can flow back following successful puncture</li> <li>• very few lesions of the mucosa during puncture due to the smoothly ground puncture needle</li> </ul>				
	REF.	SIZES	ID	OD	LENGTH approx.
<b>Puncture instrument</b>					
54 64 66	Ch. 8	Ch. 8	5.0 mm	133 mm*	1
54 64 64	Ch. 10	Ch. 10	5.5 mm	133 mm	1
54 64 64	Ch. 12	Ch. 12	6.0 mm	133 mm	1
54 64 64	Ch. 14	Ch. 14	7.0 mm	131 mm	1
54 64 64	Ch. 16	Ch. 16	7.5 mm	131 mm	1
54 64 64	Ch. 18	Ch. 18	8.0 mm	131 mm	1

\* With Ch.8, an additional 40 mm long spacer is supplied.

<b>CATHETERS FOR TROCAFIX</b>	<p>SUPRACATH catheters equipped with balloon and centrally open, straight tip are optimally suited for TROCAFIX puncture needles.</p> <p>Also available: SUPRACATH single catheters (Réf. 17 06 06) in sizes Ch. 8 – 18.</p> <p>More information about SUPRACATH catheters available on page 20.</p>
	

## 5 URINE COLLECTORS

### 5.1 Preconnected

#### SAFE AND HYGIENIC:

About 90% of all nosocomial urinary tract infections are caused by urinary drainage. Apart from the health risks for the patient, such infections also present a big economic problem. Rüschi offers a variety of products which reduce the risk of infection. The closed urinary drainage system represents one of the most important elements of prophylaxis against infections. Rüschi urinary drainage systems meet all the hygienic demands which are required for a high-quality closed system for long-term medical care.

<p><b>PRECONNECTED</b></p>	<p>Closed urinary drainage system with silicone balloon catheter for standard drainage under long-term conditions</p>			
<p>Sterile, single use, latex-free</p>  	<p>REF.</p> <p><b>17 11 00</b></p>	<p>SIZES</p> <p><b>Preconnected</b> Ch. 12/14/16/18</p> <p>consists of:</p> <p><b>Rüschi Brilliant silicone balloon catheter</b></p> <p>Size: Ch. 12/14/16/18 cylindrical closed tip, 2 opposed eyes, length approx. 41 cm, balloon 10 ml</p> <p><b>Closed urinary drainage system Rüschi S-Bag</b></p> <p>capacity 2000 ml, length of tube 120 cm</p> <p><b>SilFlate - prefilled syringe*</b></p> <p>with sterile 10% aqueous glycerine solution, 10 ml (Ref. 85 05 50, if ordered separately)</p> <p>*Attention: To inflate silicone balloons only!</p>	<p>QTY</p> <p>10</p>	



#### Rüschi Brilliant silicone

- Transparent 2-way catheter with radiopaque tip and contrast stripe
- Silicone guarantees constant elasticity and biocompatibility
- Large eyes and large inner lumen permit high drainage performance
- Minimal tendency to incrustation thanks to smooth surfaces
- Atraumatic tip and eyes
- Enclosed prefilled syringe for inflation of the balloon, in sterile packaging, 10 ml sterile 10% aqueous glycerine solution

#### Rüschi S-Bag

- Needle-free urine sampling port
- Vented drip chamber with integrated check valve
- Double bacteria-proof and liquid-tight ventilation
- Clear graduation in ml
- Flexible and kink-resistant tube
- Optimum fastening of the system
- Non-drip bottom outlet

#### PRECONNECTED: MAXIMUM PROPHYLAXIS AGAINST INFECTIONS DURING STANDARD MEDICAL CARE

#### Reduction of intraluminally rising urinary tract infections:

The connection is safeguarded with a protective foil – thus preventing unintentional disconnection with the associated invasion of bacteria. (If necessary, the foil can be removed)

#### Economic and quick:

No need for connection – saves time and reduces the number of application mistakes during catheterisation.

## 5.2 Closed urinary drainage systems

RÜSCH S-BAG		Closed urinary drainage system for long-term standard drainage			
Sterile, single use, latex-free	REF.		CAPACITY	TUBE	QTY
	67 30 44	RÜSCH S-BAG	2000 ml	120 cm	20
	67 30 49	RÜSCH S-BAG A	2000 ml	120 cm	20
		<ul style="list-style-type: none"> <li>• Needle-free urine sampling port</li> <li>• Vented drip chamber with integrated check valve</li> <li>• Double bacteria-proof and liquid-tight ventilation</li> <li>• Clear graduation in ml</li> <li>• Flexible and kink-resistant tube</li> <li>• Optimum fastening of the system</li> <li>• Non-drip bottom outlet with one-hand clamp (Ref. 67 30 44) or with T-tap outlet (Ref. 67 30 49)</li> </ul>			



T-tap outlet

5

RÜSCH U-BAG		Closed urinary drainage system with chamber for hourly measurement			
Sterile, single use, latex-free	REF.		CAPACITY	TUBE	QTY
	67 30 64	Rüsch U-Bag	2000 ml	120 cm	10
	67 30 65	Rüsch U-Bag	2000 ml	150 cm	10
		<ul style="list-style-type: none"> <li>• Needle-free urine sampling port</li> <li>• Vented drip chamber with integrated check valve</li> <li>• 400 ml mounted pivoting double measurement chamber with integrated 50 ml measurement chamber for small amounts</li> <li>• Double bacteria-proof and liquid-tight ventilation</li> <li>• Clear graduation in ml</li> <li>• Flexible and kink-resistant tube</li> <li>• Optimum fastening of the system</li> <li>• Non-drip bottom outlet</li> </ul>			



RÜSCH TUR BAG		Closed urinary drainage system for post-operative bladder irrigation			
Sterile, single use, latex-free	REF.		CAPACITY	TUBE	QTY
	67 30 51	Rüsch TUR Bag	4000 ml	120 cm	20
		<ul style="list-style-type: none"> <li>• Needle-free urine sampling port</li> <li>• Vented drip chamber with integrated check valve</li> <li>• Triple bacteria-proof and liquid-tight ventilation</li> <li>• Clear graduation in ml</li> <li>• Flexible and kink-resistant tube</li> <li>• Optimum fastening of the system</li> <li>• Exact reading thanks to balanced position of bag</li> <li>• Non-drip bottom outlet</li> </ul>			



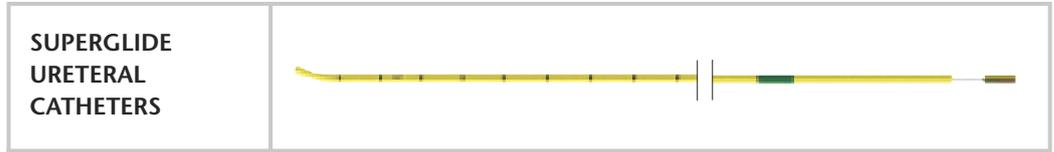
## 6 URETERAL CATHETERS

### 6.1 Superglide ureteral catheters for standard applications

**Superglide ureteral catheters**

Patented hydrogel coating - the solution for all difficult passages in the ureter

- radiopaque
- cm graduation
- red / green markers to identify right / left side
- enclosed Luer-lock adapter
- with stylet
- sterile



SUPERGLIDE URETERAL CATHETERS						
with straight tip						
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	EYES	QTY
 cylindrical, closed	26 47 01	PVC with hydrogel coating	Ch. 3-8	approx. 70 cm	1	10
 cylindrical, closed	26 47 02	PVC with hydrogel coating	Ch. 3-8	approx. 70 cm	2	10
for coaxial applications						
 central opening	26 47 10	PVC with hydrogel coating	Ch. 3-8	approx. 70 cm	-	10
 central opening	26 47 11	PVC with hydrogel coating	Ch. 3-8	approx. 70 cm	1	10

with curved tip						
 curved olive tip	26 48 01	PVC with hydrogel coating	Ch. 3-8	approx. 70 cm	1	10
for coaxial applications						
 curved, central opening	26 48 10	PVC with hydrogel coating	Ch. 3-8	approx. 70 cm	-	10
 curved, central opening	26 48 11	PVC with hydrogel coating	Ch. 3-8	approx. 70 cm	1	10

Maximum diameter of guidewire for coaxial Superglide ureteral catheters

REF. 26 47 10 / 26 47 11 / 26 48 10 / 26 48 11					
Ch. 3	Ch. 4	Ch. 5	Ch. 6	Ch. 7	Ch. 8
0.018" (0.45 mm)	0.028" (0.71 mm)	0.035" (0.89 mm)	0.038" (0.96 mm)	0.038" (0.96 mm)	0.038" (0.96 mm)

EXTENSION PIECE	
REF. 26 36 24-00 00 50 QTY 1	
The extension stylet can be adapted to all Superglide ureteral catheters of size Ch. 5, thus extending their working length by approx. 70 cm.	

## 6.2 Ureteral catheters for standard applications

URETERAL CATHETERS						
with straight tip						
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	EYES	QTY
 cylindrical, closed	26 36 02	PVC	Ch. 3-10	approx. 70 cm	1	10
 cylindrical, closed	22 36 02	PVC	Ch. 3-8	approx. 70 cm	1	10
 cylindrical, closed	22 36 00	PVC extra smooth	Ch. 3-8	approx. 70 cm	1	10
 cylindrical, closed	22 36 06	PVC	Ch. 3-8	approx. 70 cm	2	10
 highly flexible tip, cylindrical, closed	33 36 01	PVC	Ch. 3-7	approx. 70 cm	2	10
 olive tip	26 37 02	PVC	Ch. 3-8	approx. 70 cm	1	10
 olive tip	22 37 06	PVC	Ch. 4-6	approx. 70 cm	2	10
 whistle tip	26 38 02	PVC	Ch. 3-8	approx. 70 cm	1	10
for coaxial applications						
 central opening	26 46 00	PVC	Ch. 3/4/4.8	approx. 70 cm	-	10
 central opening	22 36 04	PVC	Ch. 3-8	approx. 70 cm	2	10

**Ureteral catheters**

Great variety for diagnostics and optimum therapy

- radiopaque
- cm graduation
- red / green markers to identify right / left side
- enclosed Luer-lock adapter
- with stylet
- sterile

Maximum diameter of guidewire for coaxial ureteral catheters

REF. 26 46 00			REF. 22 36 04			
Ch. 3	Ch. 4	Ch. 4.8	Ch. 3	Ch. 4/5	Ch. 6	Ch. 7/8
0.018" (0.45 mm)	0.032" (0.80 mm)	0.038" (0.96 mm)	0.015" (0.38 mm)	0.018" (0.45 mm)	0.032" (0.80 mm)	0.045" (1.14 mm)

WHEN ORDERING, PLEASE ALWAYS INDICATE REF. AND SIZE

Ureteral catheters

Great variety for optimal diagnostics and therapy - also for difficult passages in the ureter

- radiopaque
- cm graduation
- red / green markers to identify right / left side
- enclosed Luer-lock adapter
- with stylet
- sterile

URETERAL CATHETERS						
with curved tip						
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	EYES	QTY
 curved olive tip	26 40 01	PVC	Ch. 3-8	approx. 70 cm	1 20 mm from tip	10
<b>For coaxial applications</b>						
 curved, central opening	26 41 00	PVC	Ch. 3-8	approx. 70 cm	-	10
 curved, central opening	26 41 02	PVC	Ch. 4-7	approx. 70 cm	1	10
 curved, central opening	26 42 00	PVC	Ch. 3-6	approx. 115 cm for uretero- renoscopes	-	6

Maximum diameter of guidewire for coaxial ureteral catheters

REF. 26 41 00		
Ch. 3	Ch. 4	Ch. 5/6/7/8
0.015" (0.38 mm)	0.018" (0.45 mm)	0.035" (0.89 mm)

REF. 26 41 02	
Ch. 4	Ch. 5/6/7
0.018" (0.45 mm)	0.035" (0.89 mm)

REF. 26 42 00		
Ch. 3	Ch. 4	Ch. 5/6
0.015" (0.38 mm)	0.018" (0.45 mm)	0.028" (0.71 mm)

EXTENSION PIECE		
REF. 26 36 24-00 00 50	QTY 1	
The extension stylet can be adapted to Ref. 26 41 00 and 26 41 02 of size Ch. 5, thus extending their working length by approx. 70 cm.		

### 6.3 Ureteral catheters for special applications

URETERAL CATHETERS / SPECIAL													
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	EYES	QTY							
 Chevassu, whistle tip	26 75 00	<b>Ureteral catheter, Chevassu pattern, for routine injection of contrast medium into the ureter during retrograde investigation</b> with cm graduations, red / green markers to identify right / left side, enclosed Luer-lock adapter, stylet											
		PVC	Ch. 4-12	approx. 70 cm	-	10							
		Diameter of tip/shaft											
		Tip	Ch. 4	Ch. 5	Ch. 6	Ch. 7	Ch. 8	Ch. 9	Ch.10	Ch.11	Ch.12		
Shaft	Ch. 3	Ch. 3	Ch. 4	Ch. 4	Ch. 5	Ch. 6	Ch. 7	Ch. 7	Ch. 7				
 central opening	26 45 00	<b>Ureteral catheter, Woodruff-Pflaumer pattern</b> with cm graduations, red / green markers to identify right / left side, enclosed Luer-lock adapter, stylet											
		PVC	Ch. 5/8	approx. 50 cm	-	6							
 closed	32 42 00*	<b>Ureteral catheter, Pflaumer pattern</b> with graduation											
		soft rubber	Ch. 6-10 /12	approx. 70 cm	2	5							

Everything ready at hand for special cases

- radiopaque
- sterile

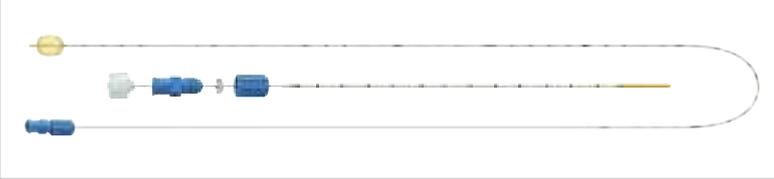
\* Attention: These products contain natural rubber latex which may cause allergic reactions!

## 6.4 Occlusion catheters

**For safe occlusion of the ureter**

- occlusion catheter made of polyurethane
- with Rüsich Gold balloon made of latex
- attachable Luer-lock adapter with check valve
- radiopaque
- cm graduations
- sterile

\* Attention: These products contain natural rubber latex which may cause allergic reactions!

<b>OCCLUSION CATHETER, ONE LUMEN</b>						
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	EYES	QTY
 cylindrical, closed	34 07 00*	polyurethane, latex balloon	Ch. 3-5	approx. 80 cm	-	2

<b>OCCLUSION CATHETER, DOUBLE LUMEN</b>						
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	EYES	QTY
 curved olive tip	34 08 02*	polyurethane, latex balloon	Ch. 5-7	approx. 80 cm	1	2
<b>For coaxial applications</b>						
 central opening	34 08 00*	polyurethane, latex balloon	Ch. 4-7	approx. 80 cm	-	2

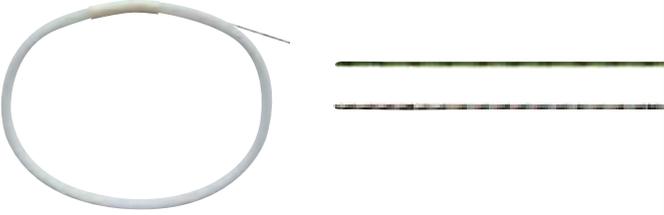
Maximum balloon capacity

REF. 34 07 00 / 34 08 00 / 34 08 02					
	Ch. 3	Ch. 4	Ch. 5	Ch. 6	Ch. 7
Liquid	0.3 ml	0.6 ml	1.5 ml	2.0 ml	2.5 ml
Air	0.6 ml	1.2 ml	3.0 ml	4.5 ml	5.0 ml

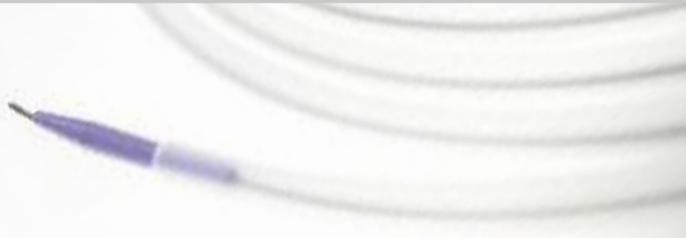
Maximum diameter of the guidewire for coaxial occlusion catheters

REF. 34 08 00	
Ch. 4	Ch. 5/6/7
0.015" (0.38 mm)	0.035" (0.89 mm)

## 6.5 Guidewires

<b>GUIDEWIRE, MADE OF STAINLESS STEEL</b>						
 flexible tip   size 2/3	<b>REF.</b>	<b>MATERIAL</b>	<b>SIZE</b>	<b>LENGTH</b>	<b>QTY</b>	
	26 42 01	Guidewire, with PTFE coating, with movable core				
		stainless steel PTFE coating	2/3	approx. 150 cm		5
		<b>Size</b>	<b>2</b>	<b>3</b>		
		O.D. in inch	0.028"	0.035"		
O.D. in mm	0.71 mm	0.89 mm				
 flexible tip	34 10 02	Guidewire, made of stainless steel, cm graduations up to 50 cm				
	stainless steel	Ø 0.037" (0.95 mm)	approx. 150 cm		2	

- straight flexible safety tip
- sterile

<b>NITINOL GUIDEWIRE</b>					
 straight and flexible tip	<b>REF.</b>	<b>MATERIAL</b>	<b>SIZE</b>	<b>LENGTH</b>	<b>QTY</b>
	68 01 60 - 15 00 35	Guidewire, with hydrophilic coating and nitinol core, straight and flexible tip (50 mm long), standard shaft in dispenser with introducer and syringe tip to humidify the hydrophilic coating.			
	Nitinol	Ø 0.035" (0.89 mm)	approx. 150 cm		5

Simple application thanks to hydrophilic coating and precise handling due to nitinol core.

For the sounding of tubular hollow organs and for the insertion of catheters with an open tip or of dilators in the urological sector.

- high visibility in dark endoscopy rooms thanks to black PUR coating
- radiopaque
- for single use
- sterile

## 6.6 Accessories

	<p>REF. 54 72 00 QTY 10</p>	<p><b>Luer-lock adapter</b></p> <ul style="list-style-type: none"> <li>• plastic, blue</li> <li>• attachable</li> <li>• for Ch. 3 – 7</li> <li>• sterile</li> </ul>
	<p>REF. 54 72 01 QTY 10</p>	<p><b>Luer-lock adapter</b></p> <ul style="list-style-type: none"> <li>• plastic, white</li> <li>• attachable</li> <li>• for Ch. 7 – 12</li> <li>• sterile</li> </ul>
	<p>REF. 34 07 02 QTY 10</p>	<p><b>Luer-lock adapter</b></p> <ul style="list-style-type: none"> <li>• blue</li> <li>• attachable</li> <li>• for Ch. 3 – 6</li> <li>• sterile</li> </ul>
	<p>REF. 34 07 03 QTY 10</p>	<p><b>Luer-lock adapter</b></p> <ul style="list-style-type: none"> <li>• white</li> <li>• attachable</li> <li>• for Ch. 6 – 10</li> <li>• sterile</li> </ul>
	<p>REF. 52 61 00 QTY 10</p>	<p><b>Adapter</b></p> <p>to connect ureteral catheters to urine bags</p> <ul style="list-style-type: none"> <li>• plastic, red</li> <li>• for Ch. 6 – 18</li> <li>• sterile</li> </ul>

6

<p><b>EXTENSION PIECE</b></p>		
<p>REF. 26 36 24-00 00 50</p>	<p>QTY 1</p>	
<p>The extension stylet can be adapted to all Superglide catheters in Ch. 5 and to Ref. 26 41 00 and 26 41 02 of size Ch. 5, thus extending their working length by approx. 70 cm.</p>		

## 7 URETERAL STENTS

### 7.1 SUPERGLIDE URETERAL STENTS

<b>ANTIREFLUX SUPERGLIDE DD VALVE</b>							
Tip configuration	Eye configuration	REF. according to length of straight part 22 cm    24 cm    26 cm    28 cm				SIZES (Ch.)	QTY
<b>For simultaneous applications</b>							
cylindrical closed		-	-	33 53 40	33 53 41	4.8/6/7/8	5
<b>For coaxial applications</b>							
central opening		-	-	33 54 40	33 54 41	4.8/6/7/8	5

Fully directable with antireflux valve

DD ureteral stent made of polyurethane with hydrogel coating, with DD coupling, antireflux valve and green marker at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

<b>SUPERGLIDE DD</b>							
Tip configuration	Eye configuration	REF. according to length of straight part 22 cm    24 cm    26 cm    28 cm				SIZES (Ch.)	QTY
<b>For simultaneous applications</b>							
cylindrical closed		-	33 48 46	33 48 40	33 48 41	4.8/6/7/8	5
		-	-	33 49 40	33 49 41	4.8/6/7/8	5
<b>For coaxial applications</b>							
central opening		33 51 42	33 51 43	33 51 40	33 51 41	4.8/6/7/8	5

Fully directable

DD ureteral stent made of polyurethane with hydrogel coating, with DD coupling and green marker at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

Maximum diameter of guidewire for DD valve and DD ureteral stents with central opening

REF. 33 54 40 / 33 54 41 REF. 33 51 42 / 33 51 43 / 33 51 40 / 33 51 41			
Ch. 4.8	Ch. 6	Ch. 7	Ch. 8
0.028"	0.028"	0.035"	0.035"

**Set components:**

- Ureteral stent
- Fixation clamp
- Introducer made of polyurethane, yellow, approx. 45 cm long, with DD coupling
- Flexible guidewire made of stainless steel with PTFE coating, with movable core, approx. 100 cm long in sets with cylindrical closed tip, approx. 150 cm long in sets with tip with central opening
- Patient card
- Documentation label
- Sterile packaging

Ureteral stent made of polyurethane with hydrogel coating, with green marker and retraction thread at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

<b>SUPERGLIDE INTEGRAL</b>								
Tip configuration	Eye configuration	REF. according to length of straight part					SIZES (Ch.)	QTY
		22 cm	24 cm	26 cm	28 cm	30 cm		
<b>For simultaneous applications</b>								
cylindrical closed		33 42 46*	33 42 50*	33 42 47	33 42 48	33 42 49	4.8/6/7/8/9	5
<b>For coaxial applications</b>								
central opening		33 47 42*	33 47 43*	33 47 40	33 47 41	-	4.8/6/7/8/9	5
central opening without guidewire		-	33 47 44	33 47 45	33 47 46	-	4.8/6/7/8	5

\* only in Ch. 4.8 / 6 / 7 / 8

7

Ureteral stent made of polyurethane with hydrogel coating, with green marker and retraction thread at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

<b>SUPERGLIDE INTEGRAL PLUS</b>								
with SUPERGLIDE ureteral catheter, central opening, Ch. 5, max. I.D. 0.038"								
Tip configuration	Eye configuration	REF. according to length of straight part					SIZES (Ch.)	QTY
		22 cm	24 cm	26 cm	28 cm	30 cm		
<b>For coaxial applications</b>								
central opening		-	33 47 51	33 47 52	33 47 53	-	4.8/6/7/8	5

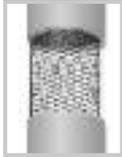
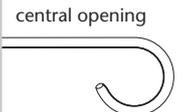
with SUPERGLIDE ureteral catheter, central opening, Ch. 5, max. I.D. 0.038"

**Set components:**

- Ureteral stent
- 2 fixation clamps
- Introducer made of polyurethane, yellow, approx. 45 cm long
- Flexible guidewire made of stainless steel with PTFE coating, with fixed core, flexible safety tip and rigid tip, approx. 100 cm long in sets with cylindrical closed tip, approx. 150 cm long in sets with tip with central opening
- Patient card
- Documentation label
- Sterile packaging

Maximum diameter of guidewire for integral stents with central opening

REF. 33 47 42 / 33 47 43 / 33 47 40 / 33 47 41 REF. 33 47 44 / 33 47 45 / 33 47 46 REF. 33 47 51 / 33 47 52 / 33 47 53				
Ch. 4.8	Ch. 6	Ch. 7	Ch. 8	Ch. 9
0.028"	0.035"	0.035"	0.038"	0.038"

SUPERGLIDE DD TUMOUR								
Tip configuration	Eye configuration	REF. according to length of straight part 20 cm    22 cm    24 cm    26 cm    28 cm					SIZES (Ch.)	QTY
<b>For simultaneous applications</b>								
cylindrical closed 		-	-	33 55 24*	33 55 26	33 55 28	6/7	2
<b>For coaxial applications</b>								
central opening 		33 56 20*	33 56 22*	33 56 24*	33 56 26	33 56 28	6/7/8**	2

High resistance to collapse caused by compression thanks to reinforced straight part of the stent, using a special braided construction.

Fully directable.

DD ureteral stent made of polyurethane with hydrogel coating, with DD coupling and green marker at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

\*only in Ch. 7

\*\* only Ref. 33 56 26 / 28

Maximum diameter of guidewire for DD tumour stents with central opening

REF. 33 56 20 / 33 56 22 / 33 56 24 / 33 56 26 / 33 56 28		
Ch. 6	Ch. 7	Ch. 8
0.028"	0.035"	0.035"

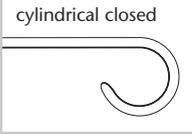
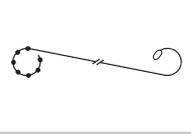
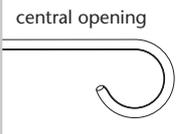
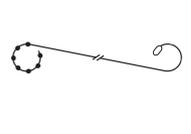
**Set components:**

- Ureteral stent
- Fixation clamp
- Introducer made of polyurethane, yellow, approx. 45 cm long, with DD coupling
- Flexible guidewire made of stainless steel with PTFE coating, with movable core, approx. 100 cm long in sets with cylindrical closed tip, approx. 150 cm long in sets with tip with central opening
- Patient card
- Documentation label
- Sterile packaging

## 7.2 Ureteral stents

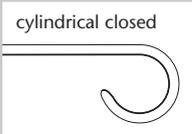
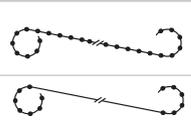
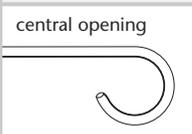
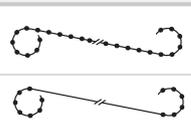
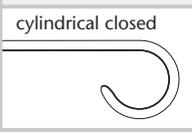
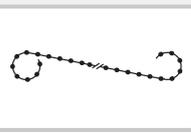
Fully directable with antireflux DD valve

DD valve ureteral stent made of polyurethane, with DD coupling and antireflux valve at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

ANTIREFLUX DD VALVE									
Tip configuration	Eye configuration	REF. according to length of straight part					SIZES (Ch.)	QTY	
		22 cm	24 cm	26 cm	28 cm	30 cm			
<b>For simultaneous applications</b>									
cylindrical closed			33 53 12	33 53 11	33 53 00	33 53 01	33 53 02	4.8/6/7/8/9	5
<b>For coaxial applications</b>									
central opening			-	33 54 11	33 54 00	33 54 01	-	4.8/6/7/8	5

Fully directable

DD ureteral stent made of polyurethane, with DD coupling at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

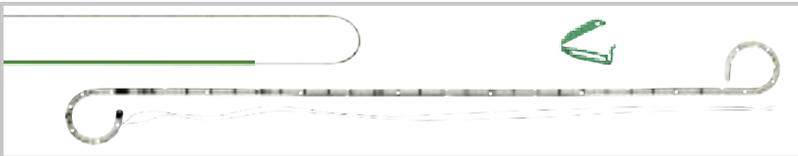
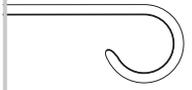
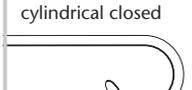
DD									
Tip configuration	Eye configuration	REF. according to length of straight part					SIZES (Ch.)	QTY	
		22 cm	24 cm	26 cm	28 cm	30 cm			
<b>For simultaneous applications</b>									
cylindrical closed			33 48 12	33 48 11	33 48 00	33 48 01	33 48 02	4.8/6/7/8/9	5
			-	-	33 49 00	33 49 01	33 49 02	4.8/6/7/8/9	5
<b>For coaxial applications</b>									
central opening			33 51 12	33 51 11	33 51 00	33 51 01	33 51 02	4.8/6/7/8/9	5
			-	-	-	33 51 66	-	4.8/6/7/8/9	5
<b>For ureterorenoscopes</b>									
cylindrical closed			-	-	33 52 00	33 52 01	-	4.8	5

Set components:

- Ureteral stent
- Fixation clamp
- Introducer made of polyurethane, green, approx. 45 cm long, with DD coupling (approx. 90 cm long in sets for ureterorenoscopes)
- Flexible guidewire made of stainless steel with PTFE coating, with movable core, approx. 100 cm long in sets with cylindrical closed tip, approx. 150 cm long in sets with tip with central opening and for ureterorenoscopes
- Patient card
- Documentation label
- Sterile packaging

Maximum diameter of guidewire for DD valve and DD ureteral stents with central opening

REF. 33 54 11 / 33 54 00 / 33 54 01				
REF. 33 51 12 / 33 51 11 / 33 51 00 / 33 51 01 / 33 51 02 / 33 51 66				
Ch. 4.8	Ch. 6	Ch. 7	Ch. 8	Ch. 9
0.028"	0.028"	0.035"	0.035"	0.035"

<b>INTEGRAL</b>									
Tip configuration	Eye configuration	REF. according to length of straight part 22 cm    24 cm    26 cm    28 cm    30 cm				SIZES (Ch.)	QTY		
<b>For simultaneous applications</b>									
cylindrical closed			33 42 12	33 42 11	33 42 00	33 42 01	33 42 02	4.8/6/7/8/9	5
<b>For coaxial applications</b>									
central opening			33 47 10	33 47 11	33 47 02	33 47 03	33 47 14	4.8/6/7/8/9	5
<b>For ureterorenoscopes</b>									
cylindrical closed			-	33 42 13	33 42 05	33 42 06	-	4.8	5

Integral stent made of polyurethane, with retraction thread at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

Maximum diameter of guidewire for integral stents with central opening

REF. 33 47 10 / 33 47 11 / 33 47 02 / 33 47 03 / 33 47 14				
Ch. 4.8	Ch. 6	Ch. 7	Ch. 8	Ch. 9
0.028"	0.035"	0.035"	0.038"	0.038"

**Set components:**

- Ureteral stent
- 2 fixation clamps
- Introducer made of polyurethane, green, approx. 45 cm long (approx. 90 cm long in the sets for ureterorenoscopes)
- Flexible guidewire made of stainless steel with PTFE coating, with fixed core, flexible safety tip and rigid tip, approx. 100 cm long in sets with cylindrical closed tip, approx. 150 cm long in sets with tip with central opening and for ureterorenoscopes
- Patient card
- Documentation label
- Sterile packaging

### 7.3 Ureteral stents for children

**Fully directable**

DD valve ureteral stent made of polyurethane, with DD coupling and antireflux valve at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

ANTIREFLUX DD VALVE		REF. according to length of straight part						SIZES (Ch.)	QTY
Configuration	Eye	10 cm	12 cm	15 cm	18 cm	20 cm	22 cm		
<b>For simultaneous applications</b>									
cylindrical closed		33 53 15	33 53 09	33 53 14	33 53 10	33 53 13	33 53 12	4.8	2
<b>For coaxial applications</b>									
central opening		-	33 54 13	33 54 14	33 54 15	33 54 16	33 54 17	4.8	2

Maximum diameter of guidewire for DD valve ureteral stents with central opening

REF. 33 54 13 / 33 54 14 / 33 54 15 / 33 54 16 / 33 54 17
Ch. 4.8
0.028"

**Set components:**

- Ureteral stent
- Fixation clamp
- Introducer made of polyurethane, green, approx. 45 cm long, with DD coupling
- Flexible guidewire made of stainless steel with PTFE coating, with movable core, approx. 100 cm long in sets with cylindrical closed tip,

- approx. 150 cm long in sets with tip with central opening
- Sets for coaxial application include an additional ureteral catheter with central opening in splint size (s. table)
- Patient card
- Documentation label
- Sterile packaging

**Antireflux valve**

Ureteral stent made of polyurethane, with antireflux valve at the vesical end, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

ANTIREFLUX VALVE		REF. according to length of straight part						SIZES (Ch.)	QTY
Configuration	Eye	10 cm	12 cm	15 cm	18 cm	20 cm	22 cm		
<b>For simultaneous applications</b>									
cylindrical closed		33 53 16*	33 53 03	33 53 04	33 53 05	33 53 06	33 53 07	3/4	2
<b>For coaxial applications</b>									
central opening		-	33 54 03	33 54 04	33 54 05	33 54 06	33 54 07	3/4	2

\*only in Ch. 4

Maximum diameter of guidewire for antireflux valve ureteral stents with central opening

REF. 33 54 03 / 33 54 04 / 33 54 05 / 33 54 06 / 33 54 07	
Ch. 3	Ch. 4
0.018"	0.018"

**Set components:**

- Ureteral stent
- 2 fixation clamps
- Introducer made of polyurethane, green, approx. 45 cm long
- Flexible guidewire made of stainless steel with PTFE coating, with fixed core, flexible safety tip and rigid tip, approx. 100 cm long in sets with

- cylindrical closed tip, approx. 150 cm long in sets with tip with central opening
- Sets for coaxial application include an additional ureteral catheter with central opening in splint size (see table)
- Patient card
- Documentation label
- Sterile packaging

<b>INTEGRAL</b>								
								
Configuration	REF. according to length of straight part						<b>SIZES</b>	<b>QTY</b>
Tip	Eye	12 cm	15 cm	18 cm	20 cm	22 cm	(Ch.)	
<b>For simultaneous applications</b>								
cylindrical closed		33 42 07	33 42 31	33 42 45	33 42 32	33 42 63	3/4/4.8*	5
<b>For coaxial applications</b>								
central opening		33 47 00	33 47 04	33 47 05	33 47 60	33 47 06	3/4/4.8*	5

Integral stent made of polyurethane, cm graduations, completely radiopaque, pigtail and drainage eyes as indicated in the table

\* Ch. 4.8 only available from 12 to 20 cm, a length of 22 cm corresponds to splint for adults

Maximum diameter of guidewire for paediatric integral stents with central opening

REF. 33 47 00 / 33 47 04 / 33 47 05 / 33 47 60 / 33 47 06		
Ch. 3	Ch. 4	Ch. 4.8
0.018"	0.028"	0.028"

**Set components:**

- Ureteral stent
- 2 fixation clamps
- Introducer made of polyurethane, green, approx. 45 cm long
- Flexible guidewire made of stainless steel with PTFE coating, with fixed core, flexible safety

- tip and rigid tip, approx. 100 cm long in sets with cylindrical closed tip, approx. 150 cm long in sets with tip with central opening
- Patient card
- Documentation label
- Sterile packaging

**FOR CHILDREN ONLY THE BEST IS GOOD ENOUGH**

Children are more sensitive and react more sensitively than adults. With its years of experience in the development of small ureteral stents and a particularly careful manufacturing process right down to the last detail, Rüschi helps to reduce the stress on children when subjected to the strains of a renal pelvis drainage.

The relationship between inner and outer diameter has also been optimised for our stents size Ch. 3, ensuring excellent drainage performance and highest possible wearing comfort. And, of course, they can be easily and safely inserted and placed.

All paediatric valve and DD valve ureteral stent sets for coaxial application are equipped with a ureteral catheter with central opening in splint size.

### 7.4 Special ureteral stents

Integral stent made of polyurethane, cm graduations, completely radiopaque, with one pigtail and drainage eyes only along the pigtail.

**Set components:**

- Integral stent
- Fixation clamp
- Flexible guidewire made of stainless steel with PTFE coating, with fixed core, flexible safety tip and rigid tip, 150 cm long
- Patient card
- Documentation label
- Sterile packaging

INTEGRAL STENT WITH ONE PIGTAIL					
Configuration	Eye	REF.	LENGTH straight part	SIZE (Ch.)	QTY
cylindrical closed		33 44 00	90 cm	4.8/6/7/8/9	6
central opening		33 44 79	90 cm	4.8/6/7/8/9	6

REF. 33 44 79				
Ch. 4.8	Ch. 6	Ch. 7	Ch. 8	Ch. 9
0.028"	0.035"	0.035"	0.038"	0.038"

Maximum diameter of guidewire for integral stents with one pigtail and central opening

Each sales unit contains three stents with green marker at the proximal end and three stents without marker. When stents have to be applied to both sides, the physician can place one stent with marker and one without. The corresponding documentation in the patient card shows clearly which stent leads to which kidney.

Integral stents for open surgical technique

Integral stent made of polyurethane, cm graduations, completely radiopaque, with two cylindrical closed pigtails, drainage eyes as indicated in the table

**Set components:**

- Integral stent
- Reinforced guidewire made of stainless steel with PTFE coating, 100 cm long
- Patient card
- Documentation label
- Sterile packaging

INTEGRAL STENT WITH CLOSED TIPS ON BOTH SIDES					
Configuration	Eye	REF.	LENGTH straight part	SIZE (Ch.)	QTY
cylindrical on both sides		33 42 08	24 cm	4.8/6/7	5
		33 42 09	26 cm	4.8/6/7/8/9	5
		33 42 10	28 cm	4.8/6/7/8/9	5

### 7.5 ECO ureteral stent set

ECO ureteral stent set, made of polyurethane

**Set components:**

- Ureteral Stent
- Without guidewire
- Introducer approx. 45 cm
- Sterile packaging

ECO					
Tip configuration	Eye configuration	REF.	LENGTH	SIZE (Ch.)	QTY
		31 00 00 - 02 60 48	26 cm	4.8	10
		31 00 00 - 02 60 60	26 cm	6	10
		31 00 00 - 02 60 70	26 cm	7	10
		31 00 00 - 02 60 80	26 cm	8	10
central opening		31 00 00 - 02 80 48	28 cm	4.8	10
		31 00 00 - 02 80 60	28 cm	6	10
		31 00 00 - 02 80 70	28 cm	7	10
		31 00 00 - 02 80 80	28 cm	8	10
		31 00 00 - 03 00 48	30 cm	4.8	10
		31 00 00 - 03 00 60	30 cm	6	10
		31 00 00 - 03 00 70	30 cm	7	10
		31 00 00 - 03 00 80	30 cm	8	10
		31 00 01 - 02 60 48	26 cm	4.8	10
		31 00 01 - 02 60 60	26 cm	6	10
		31 00 01 - 02 60 70	26 cm	7	10
		31 00 01 - 02 60 80	26 cm	8	10
		31 00 01 - 02 80 48	28 cm	4.8	10
		31 00 01 - 02 80 60	28 cm	6	10
		31 00 01 - 02 80 70	28 cm	7	10
		31 00 01 - 02 80 80	28 cm	8	10
		31 00 01 - 03 00 48	30 cm	4.8	10
		31 00 01 - 03 00 60	30 cm	6	10
		31 00 01 - 03 00 70	30 cm	7	10
		31 00 01 - 03 00 80	30 cm	8	10

7

Maximum diameter of guidewire for integral stents with central opening

REF. 31 00 00			
Ch. 4.8	Ch. 6	Ch. 7	Ch. 8
0.028" 0.71 mm	0.035" 0.89 mm	0.038" 0.96 mm	0.038" 0.96 mm

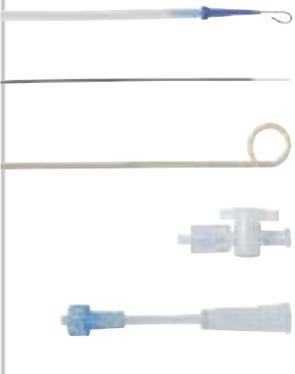
## 8 NEPHROSTOMY

### 8.1 Puncture sets

SUPERGLIDE PUNCTURE SETS PCN 2-STEP	REF. 34 00 12					
	SIZE	PUNCTURE CANNULA O.D.	LENGTH	GUIDEWIRE O.D.	CATHETER EXTENDER I.D.	QTY
	Ch. 6	19.5 G / 0.95 mm	120 mm	0.028"	0.75 mm / 0.029"	1
	Ch. 8	17.5 G / 1.30 mm	200 mm	0.038"	1.00 mm / 0.039"	1
	Ch. 10	17.5 G / 1.30 mm	200 mm	0.038"	1.00 mm / 0.039"	1
	<b>Set components:</b> <ul style="list-style-type: none"> <li>• 2-part puncture cannula with ultrasound marking at the tip</li> <li>• uncoated guidewire in dispenser, with introducer, 800 mm long</li> <li>• catheter extender, 325 mm long, with plastic stylet</li> <li>• pigtail catheter made of polyurethane, radiopaque, approx. 30 cm long, central opening, hydrogel coating, 6 drainage eyes, notches for retaining suture on the shaft, with Luer-lock connector</li> <li>• LL stopcock</li> <li>• adapter for urine collection bag</li> <li>• 3 peel labels for documentation</li> <li>• <b>latex-free</b></li> </ul>					

PUNCTURE SETS PCN 3-STEP	REF. 34 00 13						
	SIZE	PUNCTURE CANNULA O.D.	LENGTH	GUIDEWIRE O.D.	DILATOR/SPLIT SHEATH LENGTH DILATOR O.D.	QTY	
	Ch. 6	19.5 G / 0.95 mm	120 mm	0.028"	175/162.4 mm	Ch. 10	1
	Ch. 8	17.5 G / 1.30 mm	200 mm	0.038"	175/160.1 mm	Ch. 12	1
	Ch. 10	17.5 G / 1.30 mm	200 mm	0.038"	175/157.8 mm	Ch. 14	1
	<b>Set components:</b> <ul style="list-style-type: none"> <li>• 2-part puncture cannula with ultrasound marking at the tip</li> <li>• uncoated guidewire in dispenser, with introducer, 800 mm long</li> <li>• 2-part dilator, central opening, approx. 175 mm long, with split sheath, radiopaque</li> <li>• pigtail catheter made of polyurethane, radiopaque, approx. 30 cm long, central opening, 6 drainage eyes, notches for retaining suture on the shaft, with vertically slitted pigtail extender and Luer-lock connector</li> <li>• LL stopcock</li> <li>• adapter for urine collection bag</li> <li>• 3 peel labels for documentation</li> <li>• <b>latex-free</b></li> </ul>						

## 8.2 Exchange sets

SUPERGLIDE PCN EXCHANGE SETS	REF. 34 00 14			
	SIZE	GUIDEWIRE O.D.	CATHETER EXTENDER I.D.	QTY
	Ch. 6	0.028"	0.75 mm / 0.029"	1
	Ch. 8	0.038"	1.00 mm / 0.039"	1
	Ch. 10	0.038"	1.00 mm / 0.039"	1
	<p><b>Set components:</b></p> <ul style="list-style-type: none"> <li>• PTFE-coated guidewire in dispenser, with introducer, 800 mm long</li> <li>• catheter extender, 325 mm long, with plastic stylet</li> <li>• pigtail catheter made of polyurethane, radiopaque, approx. 30 cm long, central opening, hydrogel coating, 6 drainage eyes, notches for retaining suture on the shaft, with Luer-lock connector</li> <li>• LL stopcock</li> <li>• adapter for urine collection bag</li> <li>• 3 peel labels for documentation</li> <li>• latex-free</li> </ul>			

ADAPTER FOR URINE COLLECTION BAG	REF. 54 64 76
	QTY 10
	The adapter (LL-funnel combination) is compatible with all commercially available urine collection bags.

### 8.3 MIPP-set

**For minimally invasive percutaneous interventions**

- Activate the hydrogel coating by dipping it into sterile, physiological saline solution or distilled water.
- Introduce the dilator in Ch./Fr. 9 over the guidewire in situ. Check correct position using radioscopy.
- Push the dilator Ch./Fr. 14 over the dilator Ch./Fr. 9 already in situ and advance until the correct position is reached.
- Apply renax tube over the instrument in situ.
- Remove both dilators – in Ch./Fr. 9 and 14 – one by one while holding guidewire and renax tube in position.

MIPP-SET	REF. 34 12 00 - 00 01 40			QTY 1
	SIZE O.D.	LENGTH	MAX. I.D.	O.D.
	<b>Puncture cannula, 2-part</b>			
	–	200 mm	0.038"	17.5 G
	<b>Guidewire, stiffened, with J-curved tip</b>			
	0.038"	1000 mm	–	–
	<b>Superglide dilator, cm graduated, radiopaque, hydrogel coated over 30 cm</b>			
	Ch./Fr. 9	540 mm	0.038"	–
	<b>Dilator, cm graduated, with central opening for a dilator Ch./Fr. 9, radiopaque, hydrogel coated over 25 cm</b>			
	Ch./Fr. 14	320 mm	–	–
	<b>Renax tube, radiopaque, hydrogel coated over 50 mm</b>			
	–	160 mm	Ch./Fr. 14	–
	<b>Superglide nephrostomy balloon catheter made of silicone, with radiopaque tip with central opening, hydrogel coated over 50 mm, with hollow stylet, balloon capacity 3 ml*</b>			
	Ch./Fr. 12	410 mm	0.038"	–

\* With balloon catheters fill the balloon with sterile water until the catheter is fixated in the renal pelvis. To fill the balloon use a Luer or Luer-lock syringe. The fill volume is indicated on the catheter funnel or the packaging label.

#### FOR MINIMALLY INVASIVE PERCUTANEOUS INTERVENTIONS

More and more, mininephroscopes are being used for diagnostics and therapy, e.g. to remove remaining stone fragments from the calyces.

The MIPP set from Rüschi is perfectly suited to this patient-friendly trend. It comprises all the necessary instruments for minimally invasive percutaneous interventions – from the puncture cannula via the guidewire and dilators to the nephrostomy balloon catheter.

The hydrogel coating of the dilators, the renax tubes and the catheters further facilitate handling.

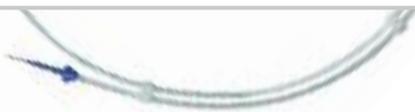
### 8.4 Puncture cannulas

PUNCTURE CANNULAS					
	REF.	O.D.	MAX. I.D.	LENGTH	QTY
	3-part, with markings at the tip (3 rings) for ultrasound reflexes				
	34 00 02 - 12 01 75	17.5 G	0.038"	120 mm	5
	Fine, 2-part, to match Ref. 34 00 02-12 01 75				
	34 00 02 - 20 02 30	23 G	-	200 mm	5
	3-part, with markings at the tip (3 rings) for ultrasound reflexes				
	34 00 03 - 20 01 75	17.5 G	0.038"	200 mm	5
	Fine, 2-part, to match Ref. 34 00 03-20 01 75				
	34 00 03 - 28 02 30	23 G	-	280 mm	5
	2-part, for 2-step technique				
	34 00 57 - 00 00 00	17.5 G	0.038"	200 mm	2

**Safe handling**

- ultrasound marking at the tip
- 2-part or 3-part
- for 2-step or 3-step technique
- sterile

### 8.5 Endoguide

ENDOGUIDE STIFF, PTFE				
	REF.	LENGTH	O.D.	QTY
	ENDOGUIDE stiff, straight tip			
	68 01 41 - 00 00 28	800 mm	0.028"	5
	68 01 41 - 00 00 35		0.035"	
	68 01 41 - 00 00 38		0.038"	
	68 01 43 - 00 00 28	1000 mm	0.028"	5
	68 01 43 - 00 00 35		0.035"	
	68 01 43 - 00 00 38		0.038"	
	68 01 45 - 00 00 28	1200 mm	0.028"	5
	68 01 45 - 00 00 35		0.035"	
68 01 45 - 00 00 38	0.038"			
	ENDOGUIDE stiff, curved tip			
	68 01 51 - 00 00 28	800 mm	0.028"	5
	68 01 51 - 00 00 35		0.035"	
	68 01 51 - 00 00 38		0.038"	
	68 01 53 - 00 00 28	1000 mm	0.028"	5
	68 01 53 - 00 00 35		0.035"	
	68 01 53 - 00 00 38		0.038"	
	68 01 55 - 00 00 28	1200 mm	0.028"	5
	68 01 55 - 00 00 35		0.035"	
68 01 55 - 00 00 38	0.038"			

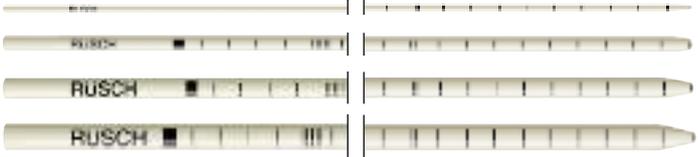
**Atraumatic and precise handling**

- smooth transition from the stiff wire to the flexible tip
- PTFE coating
- rigid proximal end
- distal tip, straight or as J-curve

## 8.6 Dilators / renax tubes / catheters for percutaneous nephrostomy

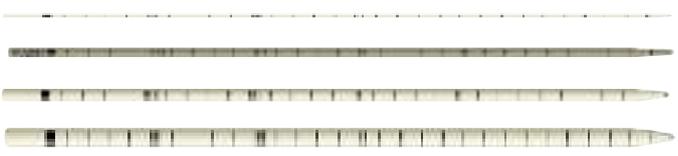
### Easy handling, safe application

- dilators made of polyurethane
- for percutaneous nephrostomy, for the application of renal fistula catheters
- dilators Ch./Fr. 12–29, with 3.1 mm bore, approx. 360 mm long
- dilator Ch./Fr. 9, with 1.05 mm (0.041"), approx. 540 mm long
- dilators with 3.1 mm bore are applied over the Ch./Fr. 9 dilator
- conical tips
- cm graduated
- radiopaque
- sterile

DILATOR SET FOR PCN Polyurethane					
	REF.	SIZE	LENGTH	MAX. I.D. TIP	QTY
	Dilator set				1
	34 02 00	9	540 mm	1.05 mm / 0.041"	
		12/15/17/19/21/23/25/27/29	360 mm	3.1 mm	
Dilators, individually packaged					
34 02 01	9	540 mm	1.05 mm / 0.041"	10	
	12/15/17/19/21/23/25/27/29	360 mm	3.1 mm	10	

### Fascial dilators made of polyurethane

- white (Ch./Fr. 14 = grey)
- conical tips
- cm graduated
- radiopaque
- sterile

FASCIAL DILATOR SET FOR PCN Polyurethane					
	REF.	SIZE	LENGTH	MAX. I.D. TIP	QTY
	Fascial dilator set				1
	34 09 00	6-28*	320 mm	1.05 mm / 0.041"	
	Fascial dilators, individually packaged				
34 09 01	6-36*	320 mm	1.05 mm / 0.041"	5	

\* even sizes only

### Renax tubes made of PVC

- used as flexible nephroscope sheaths
- oblique tip (60°)
- sterile

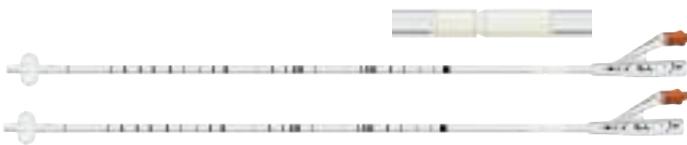
RENAX TUBES PVC				
	REF.	SIZE	LENGTH	QTY
	Renax tubes			5
	34 11 00	20-36*	160 mm	

\* even sizes only

<p><b>SUPERGLIDE BALLOON CATHETERS</b> Silicone</p> 					
		REF.	SIZE	BALLOON	LENGTH
<b>Superglide nephrostomy balloon catheter</b>					
34 04 08 Ch. 12-14 3 ml 240 mm 5					
34 04 08 Ch. 16-24 5 ml 240 mm 5					
34 04 09 Ch. 12-14 3 ml 410 mm 5					
34 04 09 Ch. 16-24 5 ml 410 mm 5					

**Balloon catheters for nephrostomy made of silicone**

- tip with central opening, application possible over a guidewire (with hollow stylet) of up to 0.038"
- on first 5 cm hydrogel coating
- drainage opening in front of and behind the balloon
- valve for Luer and Luer-lock syringe tips
- cylindrical tip
- cm graduated
- radiopaque
- sterile

<p><b>BALLOON CATHETER</b> Silicone</p> 					
		REF.	SIZE	BALLOON	LENGTH
<b>34 05 00 with deconnectable funnel</b>					
Ch. 12-14 3 ml 450 mm 5					
Ch. 16-24 5 ml 450 mm 5					
<b>34 05 02 with funnel which cannot be disconnected</b>					
Ch. 12-14 3 ml 450 mm 5					
Ch. 16-24 5 ml 450 mm 5					

**Balloon catheter made of silicone with connector which can be or cannot be disconnected**

- tip with central opening
- drainage opening in front of and behind the balloon
- valve for Luer and Luer-lock syringe tips
- transparent
- cm graduated
- radiopaque
- sterile
- Ref. 340502: exchange catheter for Ref. 34 05 00

<p><b>RENAL FISTULA CATHETER</b> Silicone</p> 					
		REF.	SIZE	LENGTH	EYES
17 98 00 Ch. 10-24 400 mm 1 5					

**Renal fistula catheter made of silicone**

- tip with central opening
- transparent
- cm graduated
- sterile

**Nephrostomy catheter made of silicone**

- with ureter stent (Ch./Fr. 4/5/6/8) approx. 35 cm long
- stent with central opening
- transparent
- cm graduated
- radiopaque
- sterile

	<b>CATHETER WITH URETER STENT</b> Silicone					
	REF.	SIZE	LENGTH	I.D. STENT	EYES	QTY
	17 90 00 - 12 00 40	Ch. 12x4	400 mm	0.6 mm/0.023"	2	5
	17 90 00 - 14 00 50	Ch. 14x5	400 mm	0.8 mm/0.031"	2	5
	17 90 00 - 16 00 60	Ch. 16x6	400 mm	0.8 mm/0.031"	2	5
	17 90 00 - 16 00 80	Ch. 16x8	400 mm	1.3 mm/0.050"	2	5
	17 90 00 - 18 00 80	Ch. 18x8	400 mm	1.3 mm/0.050"	2	5
	17 90 00 - 20 00 80	Ch. 20x8	400 mm	1.3 mm/0.050"	2	5
	17 90 00 - 22 00 80	Ch. 22x8	400 mm	1.3 mm/0.050"	2	5

**Nephrostomy balloon catheter with ureter stent**

- with ureter stent (Ch./Fr. 4/5/6/8) approx. 35 cm long
- stent with central opening
- valve for Luer and Luer-lock syringe tips
- transparent
- cm graduated
- radiopaque tip
- sterile

	<b>BALLOON CATHETER WITH URETER STENT</b> Silicone						
	REF.	SIZE	BALLOON	LENGTH	I.D. STENT	EYES	QTY
	17 90 05-12 00 40	Ch. 12x4	3 ml	410 mm	0.6 mm/0.023"	2	1
	17 90 05-14 00 50	Ch. 14x5	3 ml	410 mm	0.8 mm/0.031"	2	1
	17 90 05-16 00 60	Ch. 16x6	5 ml	410 mm	0.8 mm/0.031"	2	1
	17 90 05-16 00 80	Ch. 16x8	5 ml	410 mm	1.3 mm/0.050"	2	1
	17 90 05-18 00 80	Ch. 18x8	5 ml	410 mm	1.3 mm/0.050"	2	1
	17 90 05-20 00 80	Ch. 20x8	5 ml	410 mm	1.3 mm/0.050"	2	1
	17 90 05-22 00 80	Ch. 22x8	5 ml	410 mm	1.3 mm/0.050"	2	1
	17 90 05-24 00 80	Ch. 24x8	5 ml	410 mm	1.3 mm/0.050"	2	1

**Catheter with disconnectable funnel**

- tip with central opening, radiopaque
- radiopaque over its entire length
- transparent
- cm graduated
- sterile

	<b>CATHETER WITH DECONNECTABLE FUNNEL</b> Polyurethane					
	REF.	SIZE	LENGTH	I.D. STENT	EYES	QTY
34 03 00	Ch. 12	470 mm	1.0 mm/0.039"	2	5	
	Ch. 14	470 mm	1.0 mm/0.039"	2	5	
	Ch. 16	470 mm	1.2 mm/0.047"	2	5	
	Ch. 18	470 mm	1.2 mm/0.047"	2	5	
	Ch. 20	470 mm	1.4 mm/0.055"	2	5	
	Ch. 22	470 mm	1.4 mm/0.055"	2	5	
	Ch. 24	470 mm	1.4 mm/0.055"	2	5	
	Ch. 26	470 mm	1.4 mm/0.055"	2	5	

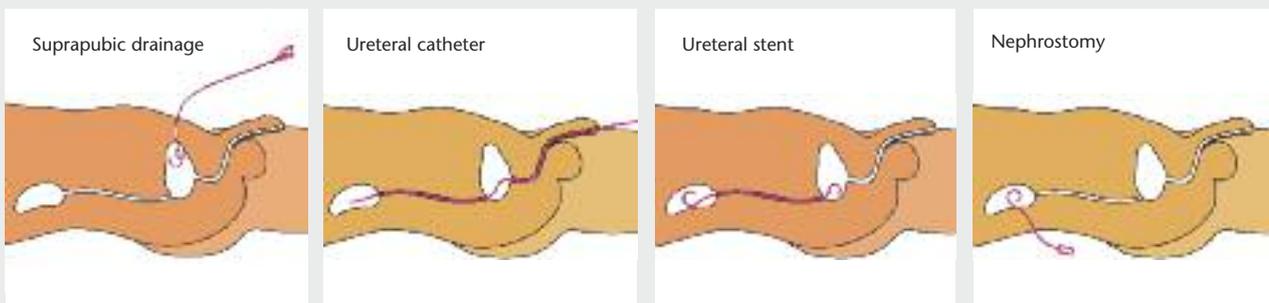
NEPHROSTOMY CATHETER Soft rubber						
REF.	SIZE	LENGTH	I.D. STENT	EYES	QTY	
40 43 00*	Ch. 6	400 mm	0.9 mm / 0.035"	1	10	
	Ch. 8	400 mm	1.4 mm / 0.055"	1	10	
	Ch. 10	400 mm	1.8 mm / 0.047"	1	10	
	Ch. 12	400 mm	2.0 mm / 0.078"	1	10	
	Ch. 14	400 mm	2.2 mm / 0.086"	1	10	
	Ch. 16	400 mm	2.6 mm / 0.102"	1	10	
	Ch. 18	400 mm	2.8 mm / 0.110"	1	10	
	Ch. 20	400 mm	3.2 mm / 0.125"	1	10	
	Ch. 22	400 mm	3.4 mm / 0.133"	1	10	
	Ch. 24	400 mm	4.0 mm / 0.157"	1	10	
Ch. 26	400 mm	4.6 mm / 0.181"	1	10		

Nephrostomy catheter made of soft rubber

- red
- tip with central opening
- funnel-shaped proximal end
- 1 eye
- contains latex
- sterile

\* Attention: These products contain natural rubber latex which may cause allergic reactions!

**INSERTION - SAFE, COMFORTABLE, ECONOMIC**



## 9 STONE EXTRACTORS

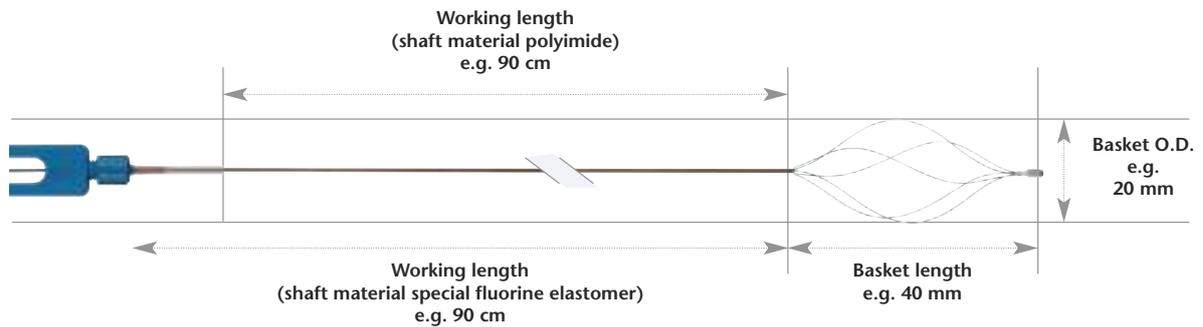
### 9.1 Flat wire baskets

RÜSCH-STONEX flat wire baskets with symmetrical external form, for precise manipulation of the stone even under the most difficult conditions.

- atraumatic tips
- form-stable basket made from flat wire
- single-handed handgrip
- clip-on retainer
- shaft with cm-graduations
- radiopaque
- in sterile packed blister
- shaft material: polyimide or special fluorine elastomer
- latex-free

STONEX® 4F						
REF. (QTY 1)	DIAMETER Ø	WORKING LENGTH	BASKET O.D.	BASKET LENGTH	REF. (QTY 5)	SIZE
for tip	STONEX® 4F with 4 flat wires, cylindrical				Spare shaft	
34 27 00	Ch. 2.5	90 cm	15 mm	20 mm	34 30 30	Ch. 2.5
34 29 00	Ch. 2.5	115 cm	15 mm	20 mm		
34 27 00	Ch. 3	90 cm	20 mm	25 mm	34 30 30	Ch. 3
34 29 00	Ch. 3	115 cm	20 mm	25 mm		
34 27 00	Ch. 4	90 cm	20 mm	25 mm	34 17 30	Ch. 4
STONEX® 4F with 4 flat wires, filiform						
34 28 00	Ch. 4	90 cm	20 mm	25 mm	34 17 30	Ch. 4

#### DIMENSIONS, e.g. STONEX 5R



## 9.2 Round wire baskets

REF. (QTY 1) for tip	DIAMETER Ø	WORKING LENGTH	BASKET O.D.	BASKET LENGTH	REF. (QTY 5)	
					Spare shaft	SIZE
<b>STONEX® 4R with 4 round wires, cylindrical</b>						
34 14 50	Ch. 2.5	90 cm	12 mm	20 mm	34 30 30	Ch. 2.5
34 14 00	Ch. 2.5	115 cm	12 mm	20 mm		
34 15 00	Ch. 3	65 cm	20 mm	40 mm	34 17 00	Ch. 3
34 14 50	Ch. 3	90 cm	20 mm	40 mm	34 17 30	Ch. 3
34 14 00	Ch. 3	115 cm	20 mm	40 mm	34 17 60	Ch. 3
34 15 00	Ch. 4	65 cm	20 mm	40 mm	34 17 00	Ch. 4
34 15 00	Ch. 5	65 cm	20 mm	40 mm	34 17 00	Ch. 5
<b>STONEX® 4R with 4 round wires, filiform</b>						
34 16 00	Ch. 4	65 cm	20 mm	40 mm	34 17 00	Ch. 4
34 16 00	Ch. 5	65 cm	20 mm	40 mm	34 17 00	Ch. 5
<b>STONEX® 5R with 5 round wires, cylindrical</b>						
34 14 01	Ch. 3	115 cm	20 mm	40 mm	34 17 60	Ch. 3
34 15 01	Ch. 4	65 cm	20 mm	40 mm	34 17 00	Ch. 4
34 15 01	Ch. 5	65 cm	20 mm	40 mm	34 17 00	Ch. 5
<b>STONEX® 5R with 5 round wires, filiform</b>						
34 16 01	Ch. 4	65 cm	20 mm	40 mm	34 17 00	Ch. 4
34 16 01	Ch. 5	65 cm	20 mm	40 mm	34 17 00	Ch. 5
<b>STONEX® 6R with 6 round wires, cylindrical</b>						
34 14 02	Ch. 3	115 cm	20 mm	40 mm	34 17 60	Ch. 3
34 15 02	Ch. 4	65 cm	20 mm	40 mm	34 17 00	Ch. 4
34 15 02	Ch. 5	65 cm	20 mm	40 mm	34 17 00	Ch. 5
<b>STONEX® 6R with 6 round wires, filiform</b>						
34 16 02	Ch. 4	65 cm	20 mm	40 mm	34 17 00	Ch. 4
34 16 02	Ch. 5	65 cm	20 mm	40 mm	34 17 00	Ch. 5

RÜSCH-STONEX round wire baskets offer a wide selection of variants – suitable for every size and shape of stone.

- atraumatic tips
- form-stable basket made from round wire
- single-handed handgrip
- clip-on retainer
- shaft with cm-graduations
- radiopaque
- in sterile packed blister
- shaft material: polyimide or special fluorine elastomer
- latex-free

## 10 MEASURING CATHETERS FOR URODYNAMICS

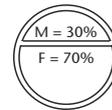
### 10.1 Catheters for cystometrography / combined urethrocytometry

Measuring catheter made of polyurethane, for cystometrography, two-way

- lumen is closed off between measuring eye and tip
- correct connection to the measuring instrument is ensured by colour coding of the attachments\*
- flow rate of filling channel: up to 100 ml/min.
- small diameter of catheters reduces strain on the urethra
- thin-walled, dimensionally stable material
- easy disposal
- sterile, single-use
- latex-free

ZYS 200 / 210 Polyurethane					
	REF.	SIZE	LENGTH	EYES	QTY
	ZYS 200, cylindrical				
	39 57 51 – 07 20 00	Ch. 7	20 cm	3	10
	39 57 51 – 07 40 00	Ch. 7	40 cm	3	10
	REF.	SIZE	LENGTH	EYES	QTY
	ZYS 210, Tiemann				
	39 57 51 – 07 20 10	Ch. 7	20 cm	3	10
	39 57 51 – 07 40 10	Ch. 7	40 cm	3	10
	39 57 51 – 09 20 10	Ch. 9	20 cm	3	10
	39 57 51 – 09 40 10	Ch. 9	40 cm	3	10

F = filling lumen eye  
M = measuring eye



Measuring catheter made of PVC, single lumen, to measure the urethral profile pressure

- universal adapter, sealing cap
- cm graduations
- single-use, sterile
- latex-free

MEASURING CATHETER PVC					
	REF.	SIZE	LENGTH	EYES	QTY
	39 57 66	Ch. 8	39 cm	2	10

Measuring catheter made of PVC, double lumen, for bladder filling and pressure measurement

- universal adapters, sealing caps
- cm graduations
- single-use, sterile
- latex-free

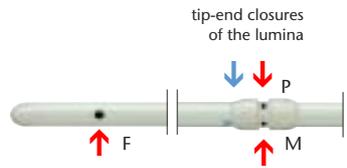
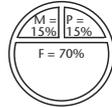
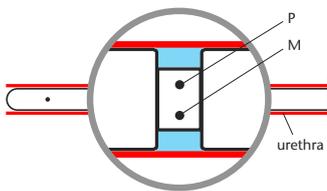
MEASURING CATHETER PVC					
	REF.	SIZE	LENGTH	EYES	QTY
	39 57 67	Ch. 8/10/12	43 cm	2	10

\* blue = filling channel (F), red = measuring channel (M)

ZYS 302 / 312 Polyurethane					
REF.	SIZE	LENGTH	EYES	QTY	
<b>ZYS 302, cylindrical</b>					
39 57 52 – 07 20 02	Ch. 7	20 cm	3	5	
39 57 52 – 07 40 02	Ch. 7	40 cm	3	5	
39 57 52 – 09 20 02	Ch. 9	20 cm	3	5	
39 57 52 – 09 40 02	Ch. 9	40 cm	3	5	
<b>ZYS 312, Tiemann</b>					
39 57 52 – 07 20 12	Ch. 7	20 cm	3	5	
39 57 52 – 07 40 12	Ch. 7	40 cm	3	5	
39 57 52 – 09 20 12	Ch. 9	20 cm	3	5	
39 57 52 – 09 40 12	Ch. 9	40 cm	3	5	

Measuring catheter made of polyurethane, for combined urethrocytometry, three-way

- measurement of intravesical pressure and urethra profile pressure is carried out with the same catheter via separate channels
- respective lumen is closed off between the perfusion / measuring eye and the tip
- flow rate of filling channel: up to 100 ml/min. A maximum value of 9 ml/min. has been determined for the perfusion and measuring channel (related to the 9 Ch. catheter)
- correct connection to the measuring instrument is ensured by colour coding of the attachments\*
- Perfusion and measuring eye are situated in a cavity at the connection piece of the shaft. Thus a closed space between catheter and urethra is created in which a constant pressure is built up enabling exact pressure measurement.
- easy disposal
- sterile, single-use
- **latex-free**



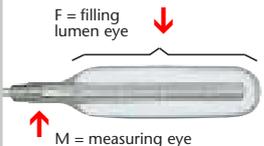
F = filling lumen eye  
M = measuring eye  
P = perfusion eye

\* blue = filling channel (F)  
red = measuring channel (M)  
yellow = perfusion channel (P)

## 10.2 Rectal balloon catheters

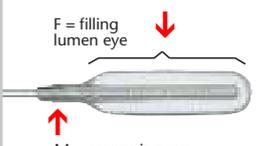
**Rectal balloon catheter made of PVC, double lumen**

- shaft perforated within the balloon
- with clamp
- single-use, sterile
- latex-free

<p><b>ZYS 502</b> PVC</p>  <p>F = filling lumen eye M = measuring eye</p>															
<table border="1"> <thead> <tr> <th>REF.</th> <th>SIZE</th> <th>LENGTH</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td rowspan="2">39 57 53 - 18 27 02</td> <td colspan="2">central opening</td> <td></td> </tr> <tr> <td>Ch. 18</td> <td>27 cm</td> <td>5</td> </tr> </tbody> </table>	REF.	SIZE	LENGTH	QTY	39 57 53 - 18 27 02	central opening			Ch. 18	27 cm	5				
REF.	SIZE	LENGTH	QTY												
39 57 53 - 18 27 02	central opening														
	Ch. 18	27 cm	5												

**Rectal balloon catheter for children, made of PVC, single lumen**

- shaft perforated within the balloon
- single-use, sterile
- latex-free

<p><b>ZYS 520</b> PVC</p>   <p>F = filling lumen eye M = measuring eye</p>															
<table border="1"> <thead> <tr> <th>REF.</th> <th>SIZE</th> <th>LENGTH</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td rowspan="2">39 57 53 - 10 10 20</td> <td colspan="2">central opening</td> <td></td> </tr> <tr> <td>Ch. 10</td> <td>100 cm</td> <td>5</td> </tr> </tbody> </table>	REF.	SIZE	LENGTH	QTY	39 57 53 - 10 10 20	central opening			Ch. 10	100 cm	5				
REF.	SIZE	LENGTH	QTY												
39 57 53 - 10 10 20	central opening														
	Ch. 10	100 cm	5												

**Rectal balloon catheter made of PVC/latex, single lumen**

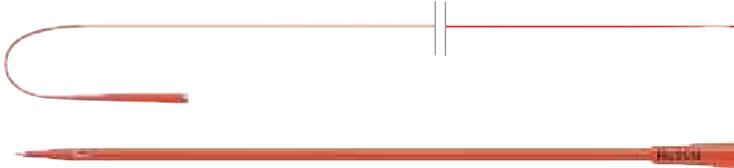
- shaft with 1 eye inside the latex balloon
- universal adapter, sealing cap
- single-use, sterile

<p><b>RECTAL BALLOON CATHETER</b> PVC / Latex</p> 																			
<table border="1"> <thead> <tr> <th>REF.</th> <th>SIZE</th> <th>LENGTH</th> <th>EYES</th> <th>QTY</th> </tr> </thead> <tbody> <tr> <td rowspan="2">39 57 63*</td> <td colspan="2">central opening</td> <td></td> <td></td> </tr> <tr> <td>Ch. 14</td> <td>42 cm</td> <td>1</td> <td>10</td> </tr> </tbody> </table>	REF.	SIZE	LENGTH	EYES	QTY	39 57 63*	central opening				Ch. 14	42 cm	1	10					
REF.	SIZE	LENGTH	EYES	QTY															
39 57 63*	central opening																		
	Ch. 14	42 cm	1	10															

\* Attention: These products contain natural rubber latex which may cause allergic reactions!

## 11 SPECIAL PRODUCTS

### 11.1 Bougies

<b>DÉLÉFOSSE CATHETER SET</b> PVC				<b>Déléfosse catheter set</b>  <b>Catheter made of PVC, red</b> <ul style="list-style-type: none"> <li>• male metric thread</li> <li>• sterile</li> <li>• latex-free</li> </ul> <b>Guide bougie (filiform bougie) made of PVC, red</b> <ul style="list-style-type: none"> <li>• female metric thread</li> <li>• olive tip</li> <li>• sterile</li> <li>• latex-free</li> </ul>																		
	REF. 25 26 00		QTY 2																			
	<table border="1"> <thead> <tr> <th>SIZE</th> <th>LENGTH</th> <th>EYES</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Catheter</b></td> </tr> <tr> <td>Ch. 12-20</td> <td>approx. 37 cm</td> <td>1</td> </tr> <tr> <td colspan="3"><b>Guide bougie</b></td> </tr> <tr> <td>Ch. 1-3</td> <td>approx. 33 cm</td> <td></td> </tr> <tr> <td>Ch. 12/1, 14/2, 16/2, 18/3, 20/3</td> <td></td> <td></td> </tr> </tbody> </table>		SIZE		LENGTH	EYES	<b>Catheter</b>			Ch. 12-20	approx. 37 cm	1	<b>Guide bougie</b>			Ch. 1-3	approx. 33 cm		Ch. 12/1, 14/2, 16/2, 18/3, 20/3			
SIZE	LENGTH	EYES																				
<b>Catheter</b>																						
Ch. 12-20	approx. 37 cm	1																				
<b>Guide bougie</b>																						
Ch. 1-3	approx. 33 cm																					
Ch. 12/1, 14/2, 16/2, 18/3, 20/3																						
																						
																						

<b>FILIFORM BOUGIE</b> PVC				<b>Filiform bougie made of PVC, red</b> <ul style="list-style-type: none"> <li>• olive tip</li> <li>• female metric thread</li> <li>• compatible with 25 26 00</li> <li>• latex-free</li> </ul>						
	REF. 27 71 00		QTY 2							
	<table border="1"> <thead> <tr> <th>SIZE</th> <th>LENGTH</th> </tr> </thead> <tbody> <tr> <td colspan="2"><b>Guide bougie, olive tip</b></td> </tr> <tr> <td>Ch. 1-6</td> <td>approx. 33 cm</td> </tr> </tbody> </table>		SIZE		LENGTH	<b>Guide bougie, olive tip</b>		Ch. 1-6	approx. 33 cm	
SIZE	LENGTH									
<b>Guide bougie, olive tip</b>										
Ch. 1-6	approx. 33 cm									
										

## 11.2 Hydraulic ureter dilators

### Gentle balloon dilation of the ureter

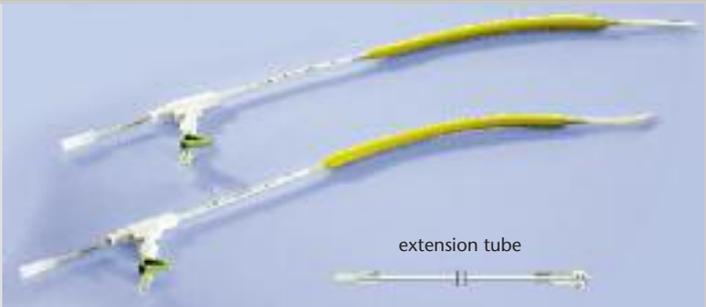
- dilators made of polyurethane with special armoured balloon made of latex
- radiopaque
- cm graduations
- stylet
- check valve with two-way stopcock with Luer-lock adapter
- enclosed single-use syringe
- sterile single-use product

HYDRAULIC URETER DILATORS						
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	BALLOON	QTY
 central opening, conical	34 20 02*	<b>DOUBLE-LUMEN</b>				
		Hydraulic ureter dilator set, for coaxial application, hollow inner stylet and two-way stopcock with Luer-lock adapter, enclosed extension tube made of PVC with Luer-lock adapters, male and female, approx. 50 cm long				
 curved olive tip	34 20 00*	polyurethane latex balloon	Ch. 8:18	approx. 70 cm	3.0 ml 9.5 cm long	1
			Ch. 6:14			
 curved olive tip	34 20 01*	polyurethane latex balloon	Ch. 5:14	approx. 70 cm	0.3 ml 2 cm long	1

Maximum diameter of guidewire for coaxial ureter dilators

REF. 34 20 02
Ch. 8
0.035" (0.89 mm)

### 11.3 Hydraulic urethral dilators

HYDRAULIC URETHRAL DILATORS							
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	BALLOON	QTY	
 conical with central opening for coaxial application	34 21 00*	polyurethane latex balloon	Ch. 14:28	approx. 40 cm	8.0 ml 15 cm long	1	<p>Hydraulic urethral dilator set, for the treatment of urethral strictures and for the postoperative dilation of the urethra after internal urethrotomy.</p> <ul style="list-style-type: none"> <li>• 2-way dilator made of polyurethane</li> <li>• white, radiopaque</li> <li>• with armoured special balloon made of latex, balloon filling pressure 5 bar</li> <li>• hollow stylet and non-return valve with Luer-lock syringe tip</li> <li>• 2-way stopcock</li> <li>• extension tube made of PVC, transparent, Luer-lock syringe tips (male and female), approx. 50 cm long</li> <li>• single-use syringe</li> <li>• sterile single-use product</li> </ul>
	34 21 01*	polyurethane latex balloon	Ch. 12:22	approx. 40 cm	5.0 ml 15 cm long	1	
	34 21 02*	polyurethane latex balloon	Ch. 14:28	approx. 50 cm	13.0 ml 20 cm long	1	
 Tiemann pattern, 1 eye	34 22 00*	polyurethane latex balloon	Ch. 14:28	approx. 40 cm	8.0 ml 15 cm long	1	
	34 22 01*	polyurethane latex balloon	Ch. 12:22	approx. 40 cm	5.0 ml 15 cm long	1	
	34 22 02*	polyurethane latex balloon	Ch. 14:28	approx. 50 cm	13.0 ml 20 cm long	1	

Maximum diameter of guidewire for coaxial urethral dilators

REF. 34 21 00 / 34 21 01 / 34 21 02
0.035" (0.89 mm)

\* Attention: These products contain natural rubber latex which may cause allergic reactions!

### 11.4 Mechanical ureter dilators

For ureteral dilation step by step

- dilators made of polyurethane
- extremely radiopaque
- cm graduations
- sterile

MECHANICAL URETER DILATORS						
Tip configuration	REF.	MATERIAL	SIZE	LENGTH	QTY	
 central opening, conical  flexible tip	34 10 00	<b>Ureter dilator set, Vienna model</b> consisting of dilators in 9 different sizes and a guidewire				1
		polyurethane	Ch. 6/8 - 14/16	approx. 60 cm		
		stainless steel	Ø 0.037" (0.95 mm)	approx. 150 cm		
 central opening, conical	34 10 01	<b>Ureter dilator, single</b>				5
		polyurethane	Ch. 6/8 - 14/16	approx. 60 cm		
 flexible tip	34 10 02	<b>Guidewire, single</b> straight flexible safety tip, cm graduations up to 50 cm, sterile				2
		stainless steel	Ø 0.037" (0.95 mm)	approx. 150 cm		

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17 00 03	11	17 93 60	12/13	23 83 00	16	33 42 08	40
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17 07 03	20/22	18 13 30	7	25 97 00	16	33 42 32	39
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17 07 17	20/22	18 34 05	9	26 36 24	26/28/32	33 42 46	34
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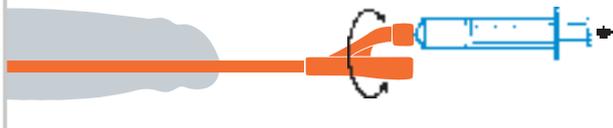
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33 48 46	33	33 54 07	38	34 14 00	51	54 64 66	23
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33 49 02	36	33 54 14	38	34 14 50	51	54 72 01	32
33 49 40	33	33 54 15	38	34 15 00	51	54 80 00	15
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33 53 13	38	34 07 00	30	40 21 01	17	67 30 65	25
33 53 14	38	34 07 02	32	40 33 00	17	68 01 41	45
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33 54 01	36	34 10 00	58	41 56 00	18	68 01 60	31
33 54 03	38	34 10 01	58	41 57 00	18	85 05 50	15/20

## Eight removal methods which can be used when the Foley catheter will not deflate.

by Dr. Stephan Roth and Prof. L. Hertle, Department of Urology, University of Münster/Germany.

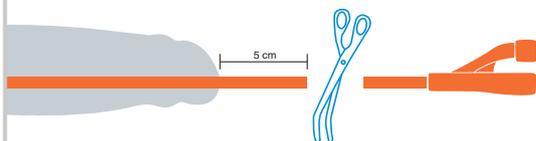
### DEFLATING BY USING TORSION

Technique: Aspirate while slightly pulling on the catheter end with alternating right-left rotation to loosen adhesions and remove ridges in the filling lumen.



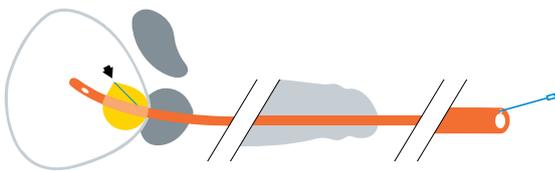
### SHORTENING THE DEFECTIVE LENGTH

Technique: Remove the funnel part of the catheter which is most prone to defects due to the continuous stresses of tension and kinking. It is important to maintain a safety margin of at least 5 cm beyond the meatus urethrae.



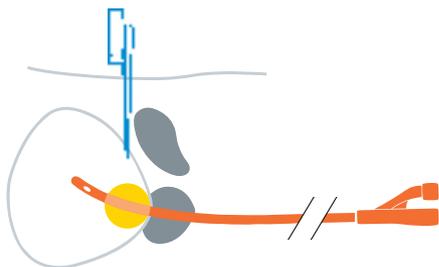
### TRANSLUMINAL PROBING AND PERFORATION

Technique: Probe the filling lumen with a thin probe (stylet of a ureteric, central venous or angiography catheter). If this is unsuccessful, attempt to perforate the balloon with the inserted stylet (caution: examine the balloon afterwards to ensure complete removal).



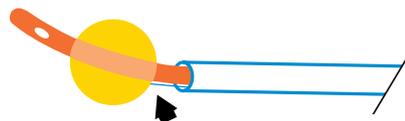
### PERCUTANEOUS PUNCTURE

Technique: This can be done both under radiological (cystogram) or ultrasound control. During the puncture, secure the balloon to the bladder neck by slightly pulling at the distal end of the catheter. Nephrostomy, biopsy or lumbar puncture needles may be used for the puncture (caution: examine the balloon afterwards to ensure complete removal).



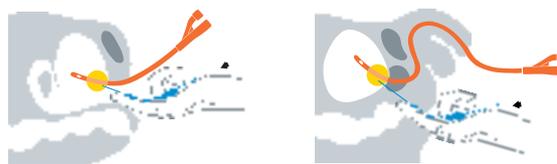
### HARPOON TECHNIQUE

Technique: Fill the shaft of a cystoscope with lubricant and pass over the cut end of the catheter up to the balloon. Then insert a probe between the shaft and the catheter using the technique described by O'Flynn. Catheter pushers or guide wires of ureteric catheters may be used as probes (caution: examine the balloon afterwards to ensure complete removal).



### TRANSRECTAL OR TRANSVAGINAL PUNCTURE

Technique: Use a flexible biopsy needle to puncture the balloon, which is fixed to the bladder neck by pulling the catheter end slightly (caution: examine the balloon afterwards to ensure complete removal).



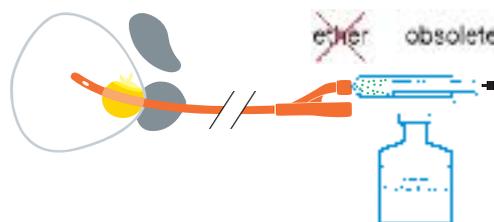
### RUPTURE BY OVERDISTENSION

Technique: Rupture can be induced by overdistending the balloon with 0.9% NaCl. Depending on the catheter, however, a volume of between 70 and 200 ml is required. Thus there is a risk of urinary system rupture in patients with nephrostomy catheters and those with contracted bladders.



### CHEMICALLY INDUCED RUPTURE

Technique: Inject 10 ml paraffin oil through the filling lumen. Inject a further 5-10 ml after 5-10 minutes if necessary. As a preventative measure, it is important to prefill the bladder with 100-200 ml saline solution. After removing the balloon catheter, inspect the bladder cystoscopically for fragments to avoid formation of calculus.



**Caution!** The low boiling point of ether (34.5 °C) causes an almost instantaneous volume increase of 0.4 to 1.01 litres after instilling 2-5 ml ether. This is associated with the risk of bladder rupture, particularly in children. Thus the use of ether should be regarded as obsolete.

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