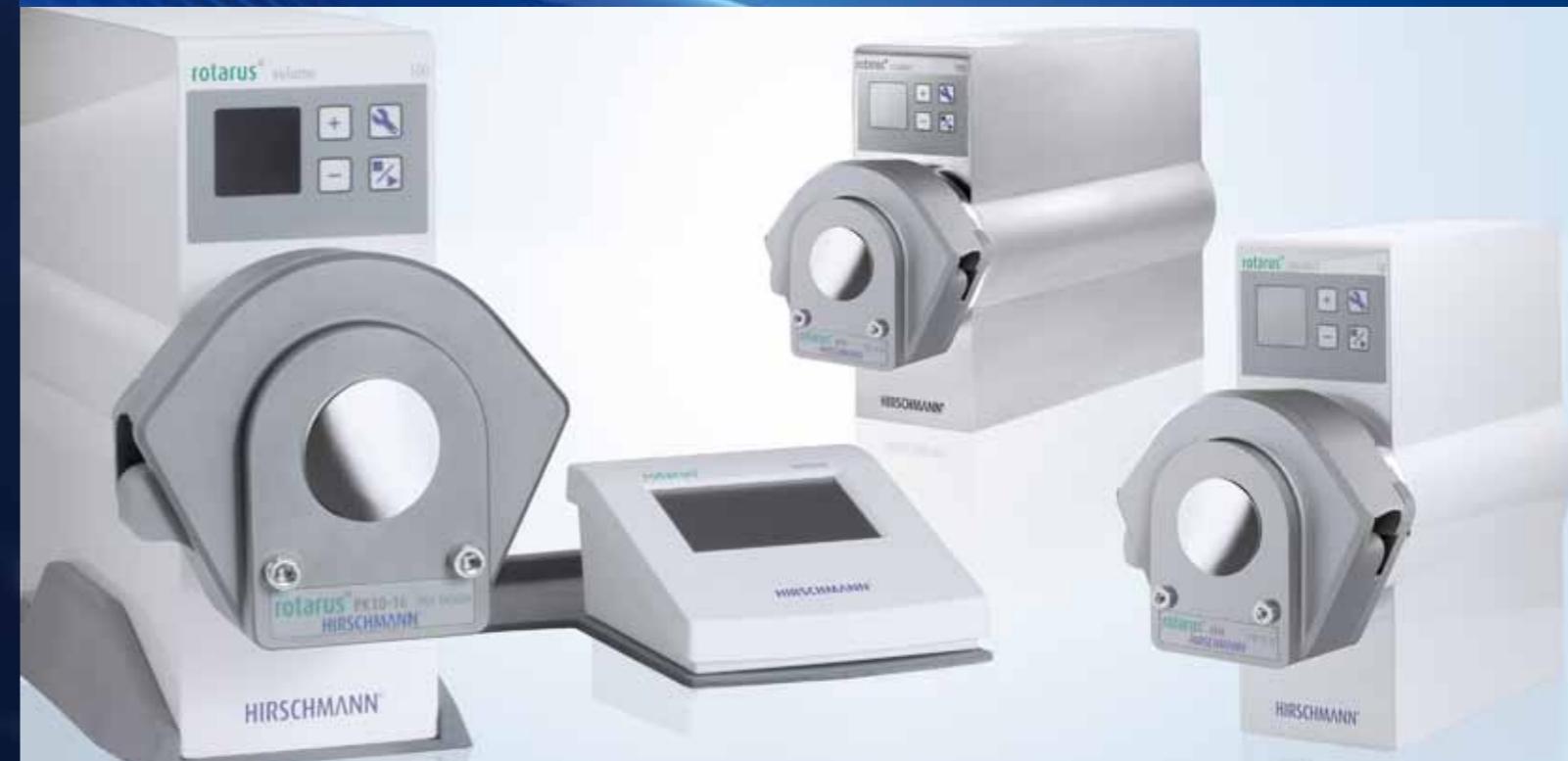


HIRSCHMANN®



rotarus®

The high-class peristaltic pump

HIRSCHMANN®

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rotarus®

Continuous dispensing, intelligent control

The rotarus® peristaltic pump series sees Hirschmann taking the leap into the world of continuous dispensing pumps.

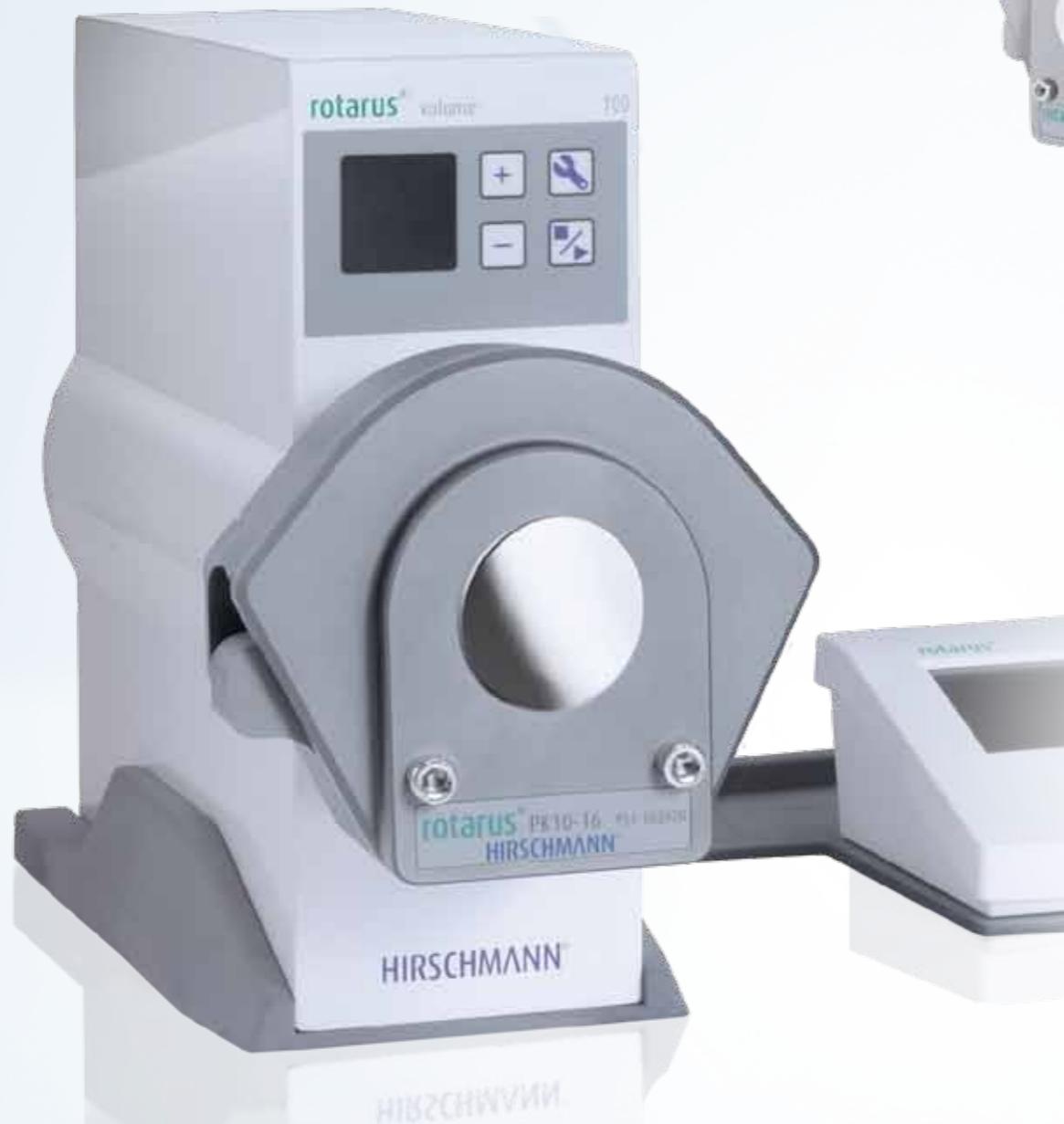
An universal planned product family is available with a selection of different motors, varying housing safety classes and intelligent control of delivery volumes, covering a broad spectrum of application areas in the lab or industry.

Hirschmann's liquid handling competence is also evident in the sophisticated functions and innovative details of rotarus®.

50 and 100 Watt motors ensure precise delivery in speed ranges from 0.2 to 500 revolutions per minute. This means that media with a high viscosity can also be accurately dispensed. RFID technology is used to detect the pump head. Configuration data for basic parameters can also be stored in this manner and retrieved at any time. The flow and volume models have automatic blockage detection and tube rupture monitoring.

Overview of details

- Rapid tool-free changing of pump heads
- Automatic pump head and tube detection with RFID technology (rotarus® flow and volume)
- Control panel located directly on pump housing
- External TFT touchscreen with user-friendly menu (standard feature on rotarus® flow and volume)
- Calibratable
- Operation with 24 V DC, outdoor use is also possible with appropriate accessories
- USB and RS232 interface for PC connection



Comfortable use and rapid handling

A control panel for the most important functions is integrated directly into the housing of all rotarus® models. In addition, rotarus® flow and volume are equipped with an external control unit with touchscreen.

The pump head connection technology guarantees rapid handling as a standard feature.

Changing is realised quickly and simply in a single action without using tools. The range encompasses a comprehensive selection of single and multichannel pump heads. Pump heads from other manufacturers can also be fitted without difficulty using an adapter.

intelligent

Fully automatic pump head detection using RFID prevents confusion

interactive

USB and RS232 interface for PC connection

variable

The pump housing can also be attached to a stand or stacked

rapid

Pump heads can be changed with a single action

comfortable

The flow and volume models are comprehensive, but can still be programmed easily via the table module

precise media delivery

Three models, numerous applications

The new rotarus® series is being launched with three versions, each with a choice of two different motors and two unit designs.

An intelligent pump range which always provides the appropriate model for a variety of applications.



rotarus® standard

rotarus® standard is a powerful basic model. The cost-effective, precise delivery pump for small delivery volumes and high viscosities is ideal for flexible applications, thanks to the use of diverse pump heads and tubes. The control panel on the housing enables simple and rapid configuration of the most important parameters, and the speed can be programmed directly on the unit.

rotarus® flow

rotarus® flow is the comfortable delivery pump. With control options for velocity and flow speed, flow is particularly suitable for delivery tasks which require a particular delivery speed calibrated in flow rate (e.g. ml/min). Basic functions can be configured quickly and easily using the control panel on the housing. The external control module with a TFT touch-screen provides clear, self-explanatory menu guidance through further functions. Speed in the case of the flow model can be configured directly on the unit. The flow rate is programmed on the table module.

As with all rotarus® pumps, pump heads on the flow version can also be replaced quickly and simply with a single action. Use of RFID technology enhances user comfort and safety through automatic detection of the pump head and tube. The intelligent functions are supplemented by rupture monitoring and blockage detection on the tube. rotarus® flow also has a calibration function and method memory.

rotarus® volume

rotarus® volume, an extremely comfortable and accurate dispensing pump, has positioned itself right from the outset as the top model in the series. In addition to selection options for speed, flow rate, dispensing duration and total volume, volume also has a range of other intelligent functions. Different pump methods with variable cycles and graduated speeds can also be accurately and reliably controlled. In common with the flow model, the control panel on the housing enables rapid and simple configuration of the basic functions.

The external control module with a TFT touch-screen provides clear, self-explanatory menu guidance through further functions.



intelligent range

Appropriate power for individual use

A choice of two different motors with 50 or 100 watt is available for pump drive. They ensure that the required power is provided to suit the application, flow rate and media.



Series 50

The Series 50 is a powerful precision pump drive for low flow rates or highly viscous media.

Depending on the pump head used, the maximum flow rates.

Series 100

The Series 100 is a rapid pump drive for high flow rates.

Depending on the pump head used, the maximum flow rates.

Housing and interior in perfect combination

Two housing versions with different protection classes are available for rotarus®. The housing with white powder coating conforms to protection class IP54 and is ideally suitable for use in the laboratory. The inox stainless steel design with protection class IP65 meets stricter environmental requirements and is the right choice for use in industrial applications in pharmaceutical, medicinal or food production.

Both housing versions have been developed to conform to the fundamental principles of Hirschmann design. Design and functionality also complement each other in rotarus® to produce units which, thanks to their low space requirement, can be easily integrated in an existing laboratory environment or production system, achieving convincing results during use with their sophisticated technology. The smooth housing surfaces can be cleaned without difficulty.



Numerous versions

Speedier change, more versatile functions

The rotarus® range encompasses a comprehensive selection of single and multichannel pump heads. The pump head connection technology was developed for rapid handling. Changing of heads is realised quickly and simply in a single action without using tools.

Pump heads from other manufacturers can also be fitted without difficulty using an adapter. rotarus® single channel pump heads are easily cascaded (i.e. they can be stacked in an assembly and operated on a single rotarus® pump).



PK 10-16



PK 10-24



HIRSCHMANN



MKF 4-8



MKF 8-4



MKF 12-8

Specially developed accessory range for maximum adaptability



Stacking aid
For stacking 2 or more rotarus®.



Stand holder
The stand clip also facilitates use of rotarus® in a stand assembly.



Control unit holder
For placing the control module on the rotarus®.

Accessories for rotarus®	
Order number	Article designation
953 11 20	rotarus® pedal switch
953 11 21	rotarus® mouse
953 11 61	rotarus® system platform
953 11 62	rotarus® control unit holder
953 11 63	rotarus® stacking aid
953 11 70	rotarus® stand holder

Accessories for pump heads		
Order number	Article designation	Suitable for pump head
953 12 50	rotarus® adapter plate	for MASTERFLEX PK
953 12 51	rotarus® adapter plate	for ISMATEK PK



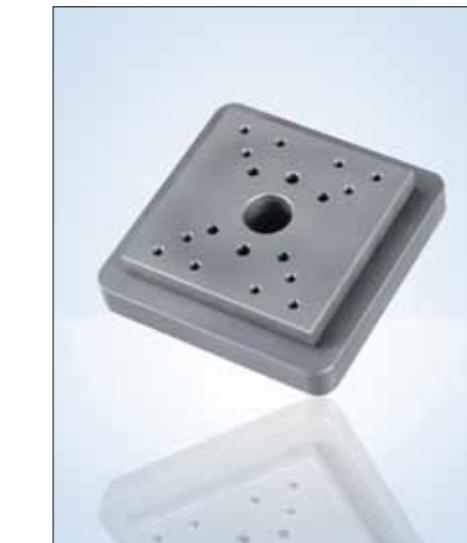
Pedal switch - so you have both hands free.
An ingenious accessory range ensures that you have complete freedom of action. For example, you can start dispensing with the pedal switch and have both hands free for work on the laboratory table.



System platform
Non-slip depositing surface for rotarus® control unit, inclusive cable guide.



Mouse
For extremely sensitive medium dispensing.



Adapter plate
For use with pump heads from other manufacturers.



Connection cable for the serial interface
Cable for linking units to the serial interface (9-pole) and USB interface of the PC.

Tubes



Tygon® R-3603/E-3603

Tygon® laboratory tube for general use in the lab and industry.

Properties:

highly transparent, temperature resistance from -54 to 74 °C, Shore hardness A 55, autoclavable, excellent chemical resistance to the majority of chemical, inorganic lab products, low particle detachment, due to extremely smooth inner wall, extreme flexibility.

Tygon® LFL

Tygon® Long Flex Life pump tube for general applications in the lab and industry and a long service life.

Properties:

highly transparent, temperature resistance from -54 to 74 °C, Shore hardness A 55, autoclavable, max. bending fatigue strength of all transparent Tygon® tubes, extremely low particle detachment, broad chemical resistance, long service life.

PharMed® BPT

Biocompatible tubes for sensitive pharmaceutical and biotechnological applications.

Properties:

beige-coloured, temperature resistance from -50 to +135 °C, Shore hardness A 64, autoclavable, good general chemical resistance, excellent resistance to acid, alkali and oxidation, impermeable to light and UV radiation.



Tygon® 2001

Ultra-pure tube free of softeners for applications in the food industry and aggressive media.

Properties:

transparent, temperature resistance from -78 to 57 °C, Shore hardness A 69, autoclavable, broad chemical resistance, free of softeners.



Norprene® Chemical

The tube for chemical applications.

Properties:

beige-coloured, temperature resistance from -60 to 74 °C, Shore hardness A 61, autoclavable, very high chemical resistance to acids, bases, salts, ketones, alcohols.



Tygon® 3350

Sanitary silicon tube.



Silicon Peroxide

Silicon tube for industrial use.

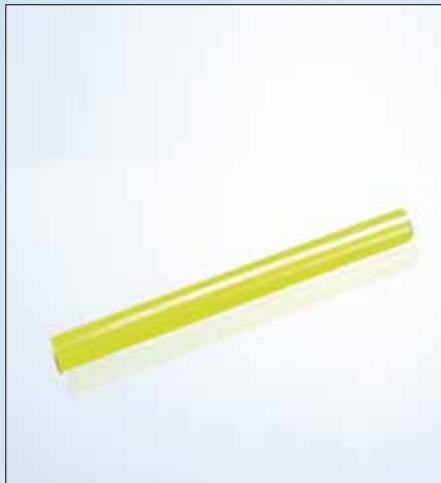
Properties:

translucent, temperature resistance from -80 to +200 °C, Shore hardness A 50, platinum-cured silicon tube, ultra smooth inner wall, silicon tube with organic peroxide, non-toxic, non-haemolytic, non-pyrogenic.

Properties:

translucent, temperature resistance from -51 to +238 °C, Shore hardness A 55, autoclavable, silicon tube with organic peroxide, non-toxic, resistant to ozone and sunlight.

Flexibles pour rotarus®



Tygon® F-4040-A

Le tuyau flexible pour les hydrocarbures et les produits pétroliers.

Propriétés :

Jaune transparent, tenue en température de -40 à +75 °C, dureté Shore A 57, faible perméabilité aux gaz, tenue à l'ozone.

Fluran® F-5500-A

Le tuyau flexible pour conditions environnementales extrêmes.

Propriétés :

Noir, tenue en température de -51 à +204 °C, dureté Shore A 60, grande inertie chimique, résistance à l'ozone, à la lumière du soleil et aux intempéries, extrême résistance au déchirement, grande souplesse et élasticité.

Norpren® A-60-G

Le tuyau flexible pour les applications industrielles.

Propriétés :

Noir, tenue en température de -60 à +135 °C, dureté Shore A 61, résistance exceptionnelle à la flexion alternée, bonne résistance à l'abrasion, faible perméabilité aux gaz par rapport aux flexibles en caoutchouc.



Référence	Désignation article	DI mm	Ep. paroi mm	Longueur m	Qté par UC
952 10011	Tygon® E-3603	1,6	1,6	15	1
952 10012	Tygon® E-3603	2,4	1,6	15	1
952 10013	Tygon® E-3603	3,2	1,6	15	1
952 10014	Tygon® E-3603	4	1,6	15	1
952 10015	Tygon® E-3603	4,8	1,6	15	1
952 10016	Tygon® E-3603	6,4	1,6	15	1
952 10017	Tygon® E-3603	8	1,6	15	1
952 10018	Tygon® E-3603	9,6	1,6	15	1
952 10019	Tygon® E-3603	11,2	1,6	15	1
952 10035	Tygon® E-3603	4,8	2,4	15	1
952 10036	Tygon® E-3603	6,4	2,4	15	1
952 10037	Tygon® E-3603	8	2,4	15	1
952 10038	Tygon® E-3603	9,6	2,4	15	1
952 10039	Tygon® E-3603	11,2	2,4	15	1
952 10040	Tygon® E-3603	12,7	2,4	15	1
952 10041	Tygon® E-3603	15,9	2,4	15	1
952 12011	Tygon® LFL	1,6	1,6	7,5	1
952 12013	Tygon® LFL	3,2	1,6	7,5	1
952 12015	Tygon® LFL	4,8	1,6	7,5	1
952 12016	Tygon® LFL	6,4	1,6	7,5	1
952 12017	Tygon® LFL	8	1,6	7,5	1
952 13010	PharMed® BPT	0,8	1,6	7,5	1
952 13011	PharMed® BPT	1,6	1,6	7,5	1
952 13012	PharMed® BPT	2,4	1,6	7,5	1
952 13013	PharMed® BPT	3,2	1,6	7,5	1
952 13015	PharMed® BPT	4,8	1,6	7,5	1
952 13016	PharMed® BPT	6,4	1,6	7,5	1
952 13017	PharMed® BPT	8	1,6	7,5	1
952 14011	Tygon® 2001	1,6	1,6	15	1
952 14013	Tygon® 2001	3,2	1,6	15	1
952 14015	Tygon® 2001	4,8	1,6	15	1
952 14016	Tygon® 2001	6,4	1,6	15	1
952 14017	Tygon® 2001	8	1,6	15	1
952 14018	Tygon® 2001	9,5	1,6	15	1
952 15013	Norpren® Chemical	3,2	1,6	15	1
952 15015	Norpren® Chemical	4,8	1,6	15	1
952 15016	Norpren® Chemical	6,4	1,6	15	1
952 15018	Norpren® Chemical	9,5	1,6	15	1

Flexibles pour rotarus®

Référence	Désignation article	DI mm	Ep. paroi mm	Longueur m	Qté par UC
952 17011	Tygon® 3350	1,6	1,6	7,5	1
952 17012	Tygon® 3350	2,4	1,6	7,5	1
952 17013	Tygon® 3350	3,2	1,6	7,5	1
952 17015	Tygon® 3350	4,8	1,6	7,5	1
952 17016	Tygon® 3350	6,4	1,6	7,5	1
952 17017	Tygon® 3350	8	1,6	7,5	1
952 17018	Tygon® 3350	9,5	1,6	7,5	1
952 17019	Tygon® 3350	11,1	1,6	7,5	1
952 17035	Tygon® 3350	4,8	2,4	7,5	1
952 17036	Tygon® 3350	6,4	2,4	7,5	1
952 17037	Tygon® 3350	8	2,4	7,5	1
952 17038	Tygon® 3350	9,5	2,4	7,5	1
952 17039	Tygon® 3350	11,1	2,4	7,5	1
952 17040	Tygon® 3350	12,7	2,4	7,5	1
952 17041	Tygon® 3350	15,9	2,4	7,5	1
952 18011	Silikon Peroxid	1,6	1,6	7,5	1
952 18013	Silikon Peroxid	3,2	1,6	7,5	1
952 18015	Silikon Peroxid	4,8	1,6	7,5	1
952 18016	Silikon Peroxid	6,4	1,6	7,5	1
952 18017	Silikon Peroxid	8	1,6	7,5	1
952 18035	Silikon Peroxid	4,8	2,4	7,5	1
952 18036	Silikon Peroxid	6,4	2,4	7,5	1
952 19013	Tygon® F-4040-A	3,2	1,6	15	1
952 19015	Tygon® F-4040-A	4,8	1,6	15	1
952 19016	Tygon® F-4040-A	6,4	1,6	15	1
952 19017	Tygon® F-4040-A	8	1,6	15	1
952 20011	Fluran® F-5500-A	1,6	1,6	7,5	1
952 20013	Fluran® F-5500-A	3,2	1,6	7,5	1
952 20015	Fluran® F-5500-A	4,8	1,6	7,5	1
952 20016	Fluran® F-5500-A	6,4	1,6	7,5	1
952 20017	Fluran® F-5500-A	8	1,6	7,5	1
952 21011	Norprene® A-60-G	1,6	1,6	15	1
952 21013	Norprene® A-60-G	3,2	1,6	15	1
952 21015	Norprene® A-60-G	4,8	1,6	15	1
952 21016	Norprene® A-60-G	6,4	1,6	15	1
952 21017	Norprene® A-60-G	8	1,6	15	1
952 21018	Norprene® A-60-G	9,5	1,6	15	1
952 21019	Norprene® A-60-G	11,1	1,6	15	1
952 21035	Norprene® A-60-G	4,8	2,4	15	1
952 21036	Norprene® A-60-G	6,4	2,4	15	1
952 21037	Norprene® A-60-G	8	2,4	15	1
952 21038	Norprene® A-60-G	9,5	2,4	15	1

Flexibles rallonges

Référence	Désignation article	DI mm	Longueur m	Qté par UC
952 11502	Flexible rallonge Tygon® R-3603	0,19	10	1
952 11503	Flexible rallonge Tygon® R-3603	0,25	10	1
952 11510	Flexible rallonge Tygon® R-3603	0,89	10	1
952 11517	Flexible rallonge Tygon® R-3603	1,42	10	1
952 11522	Flexible rallonge Tygon® R-3603	2,06	10	1
952 11525	Flexible rallonge Tygon® R-3603	2,79	10	1
952 13503	Flexible rallonge PharMed® BPT	0,25	3	1
952 13510	Flexible rallonge PharMed® BPT	0,89	3	1
952 13517	Flexible rallonge PharMed® BPT	1,42	3	1
952 13522	Flexible rallonge PharMed® BPT	2,06	3	1
952 13525	Flexible rallonge PharMed® BPT	2,79	3	1
952 17510	Flexible rallonge TYGON® 3350	0,89	10	1
952 17517	Flexible rallonge TYGON® 3350	1,42	10	1
952 17522	Flexible rallonge TYGON® 3350	2,06	10	1
952 17525	Flexible rallonge TYGON® 3350	2,79	10	1
952 19503	Flexible rallonge Tygon® F-4040-A	0,25	3	1
952 19510	Flexible rallonge Tygon® F-4040-A	0,89	3	1
952 19517	Flexible rallonge Tygon® F-4040-A	1,42	3	1
952 19522	Flexible rallonge Tygon® F-4040-A	2,06	3	1
952 19525	Flexible rallonge Tygon® F-4040-A	2,79	3	1
952 20510	Flexible rallonge Fluran® F-5500-A	0,89	10	1
952 20517	Flexible rallonge Fluran® F-5500-A	1,42	10	1
952 20522	Flexible rallonge Fluran® F-5500-A	2,06	10	1
952 20525	Flexible rallonge Fluran® F-5500-A	2,79	10	1



Flexibles pour rotarus®

Flexibles à stoppeur

Référence	Désignation article	DI mm	Code couleur	Longueur m	Qté par UC
952 11702	Tygon® R-3603 2 Stoppeur 104	0,19	orange-rouge	381 mm	12
952 11703	Tygon® R-3603 2 Stoppeur 104	0,25	orange-bleu	381 mm	12
952 11710	Tygon® R-3603 2 Stoppeur 104	0,89	orange-orange	381 mm	12
952 11717	Tygon® R-3603 2 Stoppeur 104	1,42	jaune-jaune	381 mm	12
952 11722	Tygon® R-3603 2 Stoppeur 104	2,06	violet-violet	381 mm	12
952 11725	Tygon® R-3603 2 Stoppeur 104	2,79	violet-blanc	381 mm	12
952 13703	PharMed® BPT 2 Stoppeur 104	0,25	orange-bleu	381 mm	6
952 13710	PharMed® BPT 2 Stoppeur 104	0,89	orange-orange	381 mm	6
952 13717	PharMed® BPT 2 Stoppeur 104	1,42	jaune-jaune	381 mm	6
952 13722	PharMed® BPT 2 Stoppeur 104	2,06	violet-violet	381 mm	6
952 13725	PharMed® BPT 2 Stoppeur 104	2,79	violet-blanc	381 mm	6
952 17710	Tygon® 3350 2 Stoppeur 104	0,89	orange-orange	381 mm	6
952 17717	Tygon® 3350 2 Stoppeur 104	1,42	jaune-jaune	381 mm	6
952 17722	Tygon® 3350 2 Stoppeur 104	2,06	violet-violet	381 mm	6
952 17725	Tygon® 3350 2 Stoppeur 104	2,79	violet-blanc	381 mm	6
952 19703	Tygon® F-4040-A 2 Stoppeur 104	0,25	orange-bleu	381 mm	12
952 19710	Tygon® F-4040-A 2 Stoppeur 104	0,89	orange-orange	381 mm	12
952 19717	Tygon® F-4040-A 2 Stoppeur 104	1,42	jaune-jaune	381 mm	12
952 19722	Tygon® F-4040-A 2 Stoppeur 104	2,06	violet-violet	381 mm	12
952 19725	Tygon® F-4040-A 2 Stoppeur 104	2,79	violet-blanc	381 mm	12
952 20710	Fluran® F-5500-A 2 Stoppeur 104	0,89	orange-orange	180 mm	12
952 20717	Fluran® F-5500-A 2 Stoppeur 104	1,42	jaune-jaune	180 mm	12
952 20722	Fluran® F-5500-A 2 Stoppeur 104	2,06	violet-violet	180 mm	12
952 20725	Fluran® F-5500-A 2 Stoppeur 104	2,79	violet-blanc	180 mm	12

rotarus® La pompe péristaltique grande classe

Données de commande		
Référence	Désignation	Description sommaire
950 13 22	rotarus® standard 50	pompe de circulation exacte pour petits débits et viscosités élevées, vitesse programmable sur l'appareil
950 13 24	rotarus® standard 50i	pompe de circulation exacte pour petits débits et viscosités élevées, vitesse programmable sur l'appareil
950 13 42	rotarus® flow 50	pompe de circulation exacte pour petits débits et viscosités élevées, vitesse et taux d'écoulement programmables sur module de table
950 13 44	rotarus® flow 50i	pompe de circulation exacte pour petits débits et viscosités élevées, vitesse et taux d'écoulement programmables sur module de table
950 13 62	rotarus® volume 50	pompe de dosage exacte pour petits débits et viscosités élevées, programmation étendue et très confortable sur module de table
950 13 64	rotarus® volume 50i	pompe de dosage exacte pour petits débits et viscosités élevées, programmation étendue et très confortable sur module de table
950 15 22	rotarus® standard 100	pompe de circulation rapide pour forts taux d'écoulement, vitesse programmable sur l'appareil
950 15 24	rotarus® standard 100i	pompe de circulation rapide pour forts taux d'écoulement, vitesse programmable sur l'appareil
950 15 42	rotarus® flow 100	pompe de circulation rapide pour forts taux d'écoulement, vitesse et taux d'écoulement programmables sur module de table
950 15 44	rotarus® flow 100i	pompe de circulation rapide pour forts taux d'écoulement, vitesse et taux d'écoulement programmables sur module de table
950 15 62	rotarus® volume 100	pompe de circulation rapide pour forts taux d'écoulement, programmation étendue et très confortable sur module de table
950 15 64	rotarus® volume 100i	pompe de circulation rapide pour forts taux d'écoulement, programmation étendue et très confortable sur module de table

Etendue de la livraison
• rotarus®
• alimentation externe
• câble de branchement pour EU, UK, US
• module de commande pour variantes flow et volume

rotarus® têtes de pompe

Données de commande				
Référence	Désignation article	Nbre de canaux	Nbre de galets	Réducteur
951 102020	rotarus® PK 10-16, tête de pompe monocanal p. flexibles à EP 1,6 MM	1	3	-
951 102021	rotarus® PK 10-24, tête de pompe monocanal p. flexibles à EP 2,4 MM	1	3	-
951 108020	rotarus® MKF 4-8, tête de pompe multicanal p. flexibles à stoppeur	4	8	-
951 108021	rotarus® MKF 8-4, tête de pompe multicanal p. flexibles à stoppeur	8	4	-
951 108022	rotarus® MKF 12-8, tête de pompe multicanal p. flexibles à stoppeur	12	8	1

rotarus® HiClass non-stop