



**F-28/13<sup>1</sup>**  
 Aluminum Rotor  
 16-Place, 12.5 ml  
 Tube Dimensions: 16 × 80 mm  
 Fixed-Angle: 23.5°  
 Maximum Speed: 28,000 rpm  
 K Factor: 143  
 Rotor Mass: 7.5 kg  
 Autoclavable: 121°C

	RCF (g)	R (cm)
Max.	100,096	11.43
Min.	64,278	7.34

For use in RC-28S, RC-26 Plus, RC-24<sup>4</sup>, RC-5C Plus, RC-5C<sup>4</sup>, RC-5B Plus, RC-5B<sup>4</sup>, RC-5<sup>4</sup>, RC-2B<sup>4</sup>

**Basic Catalog No. 11942**

Includes:  
 F-28/13 Rotor  
 Vacuum Grease **65937**  
 Lubricant **61556**  
 Rotor Cover Assembly **11953**  
 Rotor Cover O-ring (6 supplied) **69475**  
 Locking Knob O-ring (6 supplied) **67745**  
 Centerhole O-ring (6 supplied) **67908**  
 Retaining Ring Pliers **65614**  
 Rotor Extractor **01031**  
 Instruction Manual **11950**

**Complete Catalog No. 11943**

Includes Basic Catalog **11942** Plus:  
 ULTRACRIMP® Tubes, Polyallomer  
 11.5 ml (4 pkgs, 50/pkg) **03987<sup>2</sup>**  
 Rotor Cap (16 supplied) **03993**  
 Tube Racks (1 pkg, 2/pkg) **03922**  
 ULTRACRIMP® and CLEARCRIMP® Tube  
 Removal Tool **12826**

**Accessories**

ULTRACRIMP® and CLEARCRIMP® Sealing  
 Tool and Crimp Gauge **03920**  
 Crimp Gauge **03919**  
 ULTRACRIMP® and CLEARCRIMP® Plugs  
 and Caps (1 pkg, 25/pkg) **03999**  
 Tool Kit (for 12.5 ml Multipiece Sealing  
 Assembly) **52609**. Includes: Tube Cap Vise  
**52176**, Tube Removal Tool **52177**,  
 Torque Wrench **52881**, 7/16-inch Socket  
**52882**  
 Software Update Kit for RC-5C<sup>3</sup> **12814**

**TUBES, BOTTLES**

< See page B-3 for Rotor to Centrifuge cross reference >

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOMINAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
12.5	11.8	Polyallomer Thin-Walled Tube	28,000	16 × 76	<b>03128</b> (50)	<b>52178</b> (1)	Multipiece, Aluminum	—	—	Requires Tool Kit <b>52609</b> .
11.5	11.5	Polyallomer ULTRACRIMP® Tube	28,000	16 × 76	<b>03987</b> (50)	Included with tubes	Plug and Aluminum Cap	—	—	Requires Rotor Cap <b>03993</b> , Tube Racks <b>03922</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> .
11.5	11.5	Polyethylene-terephthalate CLEARCRIMP® Tube	28,000	16 × 76	<b>01087</b> (50)	Included with tubes	Plug and Aluminum Cap	—	—	Requires Rotor Cap <b>03993</b> , Tube Racks <b>03922</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> .
10	6.8	Polyallomer Thick-Walled Tube	28,000	16 × 71	<b>03238</b> (50)	—	—	—	—	
10	6.8	Polycarbonate Thick-Walled Tube	28,000	16 × 71	<b>03237</b> (50)	—	—	—	—	
10	9.1	Polypropylene Oak Ridge Bottle	28,000	16 × 83	<b>03929</b> (50)	<b>03613</b> (25)	Nylon, Screw Cap	—	—	Maximum speed is 21,000 rpm when partially filled.
10	9.7	Polycarbonate Oak Ridge Bottle	28,000	16 × 83	<b>03020</b> (25)	<b>03613</b> (25)	Nylon, Screw Cap	—	—	
6	5.7	Polyallomer ULTRACRIMP® Tube	28,000	13 × 66	<b>03945</b> (50)	Included with Tubes	Plug and Aluminum Cap	<b>02204</b> (4)	1	Requires Rotor Cap <b>03992</b> , Tube Racks <b>03921</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> . Adapter also available in pkg. of 1 <b>00607</b> .

<sup>(1)</sup>This rotor/cover assembly has been tested for microbiological containment (Ref. 1) by PHLS-CAMR, Porton Down. Suitable for use with materials up to ACDP category 3 (Ref. 2). Seal integrity may be affected by improper use or maintenance.

<sup>(2)</sup>Tubes supplied with equal number of plugs and caps.

<sup>(3)</sup>Contact your SORVALL® representative to determine your need for a Software Update Kit.

<sup>(4)</sup>Instrument no longer available.

\*Sealing Assembly replacement parts may be available. See section E for availability.

(continued on next page)

**TUBES, BOTTLES FOR F-28/13** (continued)

CAPACITY (ml)		DESCRIPTION	MAX SPEED (rpm)	DIMENSIONS (mm)	TUBE CAT. NO. (Qty/Pkg)	SEALING ASSEMBLY*		ADAPTER REQ'D		NOTES
NOMINAL	FILL					CAT. NO. (Qty/Pkg)	DESCRIPTION	CAT. NO. (Qty/Pkg)	NO. OF PLACES	
6	5.7	Polyethylene-terephthalate CLEARCRIMP® Tube	28,000	13 × 66	<b>01086</b> (50)	Included with tubes	Plug and Aluminum Cap	<b>02204</b> (4)	1	Requires Rotor Cap <b>03992</b> , Tube Racks <b>03921</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> . Adapter also available in pkg. of 1 <b>00607</b> .
4.4	3.3	Polyallomer Thin-Walled Tube	28,000	11 × 60	<b>03955</b> (50)	<b>54366</b> (1)	Multipiece, Aluminum Selfseal	<b>02203</b> (4)	1	Requires Tube Cap Vise <b>52176</b> and Tube Removal Tool <b>11538</b> . Adapter also available in pkg. of 1 <b>00606</b> .
4.4	2.7	Polycarbonate Threaded Thick-Walled Tube	28,000	11 × 60	<b>54361</b> (50)	<b>54365</b> (1)	Aluminum, Screw Cap	<b>02203</b> (4)	1	Requires Tube Cap Tool <b>54377</b> and Tube Removal Tool <b>11538</b> . Adapter also available in pkg. of 1 <b>00606</b> .
3.5	3.5	Polyallomer ULTRACRIMP® Tube	28,000	11 × 60	<b>03905</b> (50)	Included with Tubes	Plug and Aluminum Cap	<b>02203</b> (4)	1	Requires Rotor Cap <b>03091</b> , Tube Racks <b>03773</b> , and ULTRACRIMP® and CLEARCRIMP® Sealing Tool <b>03920</b> . Adapter also available in pkg. of 1 <b>00606</b> .
1.5	—	Microtube	—	—	—	—	—	<b>02201</b> (4)	1	Adapter also available in pkg. of 1 <b>00604</b> .

\*Sealing Assembly replacement parts may be available. See section E for availability.

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