Adapters, cone/screwthread

- With screwthread joint complete with plastic cap, silicone rubber ring and PTFE washer
- Ideal for securing thermometers, gas inlet tubes, etc.

Product Code	Thread size	Cone size	Acceptable dia. through screwcap mm	Pack qty.
ST51/13	13	14/23	6.0 - 7.0	2
ST51/18	18	14/23	7.0 - 8.5	2
ST52/13	13	19/26	6.0 - 7.0	2
ST52/18	18	19/26	7.0 - 8.5	2
ST52/24	24	19/26	10.5 - 11.5	2
ST53/13	13	24/29	6.0 - 7.0	2
ST53/18	18	24/29	7.0 - 8.5	2
ST53/24	24	24/29	10.5 - 11.5	2
ST54/13	13	29/32	6.0 - 7.0	2
ST54/18	18	29/32	7.0 - 8.5	2
ST54/24	24	29/32	10.5 - 11.5	2
ST54/28	28	29/32	18.0 - 19.0	1
ST55/28	28	34/35	18.0 - 19.0	1

Spare plastic caps, rubber rings and PTFE washers are listed on page 202.

Adapters, expansion

- Useful for the connection of dissimilar sized ground glass joints
- Large sized socket at the top and small sized cone at the base

Product Code	Socket size	Cone size	Pack qty.
XA10	14/23	10/19	2
XA21	19/26	14/23	2
XA31	24/29	14/23	2
XA32	24/29	19/26	2
XA41	29/32	14/23	2
XA42	29/32	19/26	2
XA43	29/32	24/29	2
XA52	34/35	19/26	2
XA53	34/35	24/29	2
XA54	34/35	29/32	2
XA64	40/38	29/32	1
XA74	45/40	29/32	1
XA85	50/42	34/35	1

Adapters, reduction

- Useful for the connection of dissimilar sized ground glass joints
- Small sized socket at the top, large sized cone at the bottom

Product Code	Socket size	Cone size	Pack qty.
DA01	10/19	14/23	2
DA12	14/23	19/26	2
DA13	14/23	24/29	2
DA14	14/23	29/32	2
DA23	19/26	24/29	2
DA24	19/26	29/32	2
DA25	19/26	34/35	2
DA34	24/29	29/32	2
DA35	24/29	34/35	2
DA36	24/29	40/38	1
DA37	24/29	45/40	1
DA38	24/29	50/42	1
DA39	24/29	55/44	1
DA45	29/32	34/35	2
DA47	29/32	45/40	1
DA56	34/35	40/38	1
DA57	34/35	45/40	1
DA58	34/35	50/42	1

Adapters, Reduction, PTFE

- Useful for the connection of dissimilar sized ground glass joints, works with Quickfit®
- Excellent chemical resistance
- Operating temperature up to 260°C

Product Code	Socket	Cone	Pack qty.
SWN902	10/19	14/23	1
SWN908	19/26	34/35	1
SWN909	24/29	29/32	1
SWN911	29/32	34/35	1

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Adapters, multiple, with two parallel necks

- With two parallel necks

Product Code	Socket size	Cone size	Pack qty.
MA1/11	14/23	14/23	1
MA1/2	19/26	19/26	1
MA1/3	19/26	24/29	1
MA1/33	24/29	24/29	1
MA1/44	29/32	29/32	1

Adapters, multiple, with two necks

- With two necks :
  - One vertical
  - One angled at 45°

Product Code	Socket size	Cone size	Pack qty.
MA2/2	19/26	19/26	1
MA2/3	19/26	24/29	1

Adapter, multiple, with three necks

- With three necks:
  - Two vertical
  - One at 45°

Product Code	Socket size vertical necks	Socket size angled neck	Cone size	Pack qty.
MA4/23	19/26	19/26	24/29	1

Adapters, swan neck

- With screwthread joint to accept thermometers and air leak tubes etc.

Product Code	Socket size	Cone size	Thread size	Pack qty.
MA6/22	19/26	19/26	13	1
MA6/33	24/29	24/29	13	1

Acceptable diameter of thermometer through the screwcap is 6 - 7mm.
Spare plastic caps, rubber rings and PTFE washers are listed on page 202.

Adapters, receiver

- With short or long stem
- Useful for feeding distillate from condensers into receiving vessels

Product Code	Socket size	Approx stem length mm	Pack qty.
RA1/01	14/23	65	1
RA1/02	19/26	65	1
RA1/03	24/29	65	1
RA1/04	29/32	65	1
RA1/10	10/19	120	1
RA1/11	14/23	190	1
RA1/12	19/26	200	1
RA1/13	24/29	200	1
RA1/14	29/32	200	1

For plastic joint clips to secure glassware, please see page 194.

Adapters, receiver, straight type

- Straight type

Product Code	Socket size	Overall height mm	Pack qty.
RA1/22	19/26	180	1
RA1/23	24/29	180	1

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Adapters, receiver, side socket

- With side socket inclined at an angle of 15° from horizontal

Product Code	Socket size	Cone size	Approx overall height (mm)	Pack qty.
RA4/11	14/23	14/23	120	1
RA4/22	19/26	19/26	120	1
RA4/23	19/26	24/29	120	1

Adapters, receiver, plain bend

- Plain bend without vent

Product Code	Socket size	Cone size	Approx overall height (mm)	Pack qty.
RA9/11	14/23	14/23	90	1
RA9/22	19/26	19/26	100	1
RA9/23	19/26	24/29	110	1
RA9/33	24/29	24/29	125	1
RA9/44	29/32	29/32	140	1

Adapters, receiver, bend with vent

- Bend with vent
- With side-arm to provide vent to atmosphere
- Avoids the problems of 'closed systems'

Product Code	Socket size	Cone size	Approx overall height (mm)	Pack qty.
RA2/11	14/23	14/23	80	1
RA2/22	19/26	19/26	106	1
RA2/23	19/26	24/29	120	1
RA2/33	24/29	24/29	130	1

The side-arm is for venting purposes and not for connection to a vacuum source. For adapters with vacuum connection, see RA3: and RA13: series.

Adapters, receiver, vacuum, angled

- Delivery stem within cone
- With side-arm for connection to a vacuum supply
- Easy connection to flexible tubing via detachable plastic screwthread connector

Product Code	Socket size	Cone size	Approx overall height (mm)	Pack qty.
RA3/11/SC	14/23	14/23	110	1
RA3/22/SC	19/26	19/26	140	1
RA3/23/SC	19/26	24/29	140	1
RA3/33/SC	24/29	24/29	150	1
RA3/44/SC	29/32	29/32	165	1

For spare screwthread connectors, please refer to page 96.

Adapters, receiver, vacuum, straight

- Delivery stem within cone
- With side-arm for connection to a vacuum supply
- Easy connection to flexible tubing via detachable plastic screwthread connector

Product Code	Socket size	Cone size	Approx overall height (mm)	Pack qty.
RA13/33/SC	24/29	24/29	140	1

Adapters, receiver, pig

- Allows up to three flasks* to be connected to a condenser outlet
- Useful for collecting distillate fractions
- By slightly rotating the adapter a new flask is presented to the distillate
- With side-arm for connection to a vacuum supply

Product Code	Socket size	Cone size	Approx overall height (mm)	Pack qty.
RA5/11/SC	14/23	14/23	110	1
RA5/21/SC	19/26	14/23	110	1

It is not dimensionally possible to fit large capacity flasks to these receivers.
**Maximum flask capacity is: RA5/11/SC - 50ml flask RA5/21/SC - 100ml flask.*

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Adapters, receiver, vacuum, four flask connector

- Allows four flasks to be connected to a condenser outlet
- Useful for collecting fractions when distilling under vacuum
- Each flask can be progressively filled by rotating the adapter
- Avoids problems of disturbing vacuum conditions when changing flasks
- Choice of collection flasks

Product Code	Description	Socket size	Cone size	Pack qty.
RA11/SC	Screwthread vacuum receiver adapter to take four flasks	19/26	14/23	1
RA12/2	Sloping delivery adapter	19/26	19/26	1
FR25/1S	25ml flask	14/23	-	5
FR50/1S	50ml flask	14/23	-	5
FR100/1S	100ml flask	14/23	-	5

A choice of retaining clips to hold the flasks are detailed on page 194.

Adapters, receiver, Perkin

- For vacuum distillation work
- Allows receiver flasks to be changed without disturbing the vacuum within the system
- Fitted with 3 x GP Rotaflo® stopcocks with PTFE keys:
  - No lubrication required
  - No contaminating greases
  - No chemical corrosion
- With screwcap system for gentle release of vacuum at conclusion of work

Product Code	Capacity (ml)	Cone size	Socket size	Pack qty.
RA6/11/SC	10	14/23	14/23	1
RA6/22/SC	30	19/26	19/26	1
RA6/23/SC	30	24/29	19/26	1
RA6/33/SC	30	24/29	24/29	1

Spare Rotaflo® keys are listed on page 241.

Adapters, splash head, vertical

- Usually inserted between a flask and condenser to prevent 'carry-over' of raw liquid

Product Code	Socket size	Cone size	Pack qty.
SH17/23	19/26	24/29	1

Adapters, splash head, sloping

- Popular adapter used in distillation assemblies to prevent raw liquid 'carrying over' from flask to condenser

Product Code	Cone size to fit flask	Cone size to fit condenser	Pack qty.
SH7/02	19/26	19/26	1
SH7/03	24/29	19/26	1
SH7/43	24/29	24/29	1
SH7/0/44	29/32	29/32	1

Adapters, splash head, vertical distillation

- A splash head for use in distillation assemblies in which the condenser is assembled in the vertical mode
  - Lower cone accepts flask, upper cone accepts condenser
  - Splash head reduces entrainment of raw liquid into the vapour stream

Product Code	Cone size to fit flask	Cone size to fit condenser	Pack qty.
SH7/12	19/26	19/26	1
SH7/13	24/29	19/26	1
SH7/53	24/29	24/29	1

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Adapters, splash head, rotary evaporator, anti-climb

- For use with rotary evaporators
- Protects against liquid ingress into the condenser from 'bumping' solvents
- Useful for liquids that have tendancy to foam
- Splash heads feature a 29/32 socket

Product Code	Cone size	Pack qty.
SH15/19	19/26	1
SH15/24	24/29	1
SH15/29	29/32	1

Adapters, splash head, rotary evaporator, with sinter

- For use with rotary evaporators
- Prevents possible contamination of condenser
- Features a coarse porosity 1 sinter to reduce carry over
- Splash heads feature a 29/32 socket

Product Code	Cone size	Pack qty.
SH16/19	19/26	1
SH16/24	24/29	1
SH16/29	29/32	1

Adapters, steam distillation head

- A splash-head with integral stem for the introduction of steam into flasks
- Stem is connected to steam supply via detachable screwthread safety connector

Product Code	Cone size to fit flask	Cone size to fit condenser	Pack qty.
SH7/23/SC	24/29	19/26	1

Screwthread connector, cat no: 4510/02, accepts 9mm bore flexible tubing.
Spare screwthread connectors are available on page 96.

Adapters, still head

- Used in distillation assemblies for connecting flasks to condenser
- Upper socket designed to accept thermometer either via cone/screwthread adapter or thermometer pocket

Product Code	Cone size to fit flask	Cone size to fit condenser	Socket size	Pack qty.
SH4/0	10/19	10/19	10/19	1
SH4/1	14/23	14/23	14/23	1
SH4/22	19/26	19/26	14/23	1
SH4/2	19/26	19/26	19/26	1
SH4/23	24/29	19/26	14/23	1
SH4/33	24/29	24/29	14/23	1
SH4/24	29/32	19/26	14/23	1
SH4/44	29/32	29/32	14/23	1
SH4/55	34/35	34/35	14/23	1

Adapters, still head, Claisen

- Similar to the SH4: still heads but with extra socket to accept dropping funnel or stirrer etc.

Product Code	Cone size to fit flask	Cone size to fit condenser	Socket size	Pack qty.
SH6/1	14/23	14/23	14/23	1
SH6/22	19/26	19/26	14/23	1
SH6/23	24/29	19/26	14/23	1
SH6/33	24/29	24/29	14/23	1
SH6/44	29/32	29/32	14/23	1

PTFE joint sleeves eliminate the possibility of joint seizure, see page 193.

Adapters, still head, recovery

- Provides a simple vapour conduit between flasks and distillation condensers

Product Code	Cone size to fit flask	Cone size to fit condenser	Pack qty.
SH1/11	14/23	14/23	1
SH1/22	19/26	19/26	1
SH1/23	24/29	19/26	1
SH1/33	24/29	24/29	1
SH1/44	29/32	29/32	1

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Adapters, still head, recovery, vertical mode

- Used in distillation assemblies in which the condenser is assembled in the vertical mode

Product Code	Cone size to fit flask	Cone size to fit condenser	Pack qty.
SH2/22	19/26	19/26	1
SH2/33	24/29	24/29	1

Adapters, Solvent still head

- Apparatus for distillation and collection of oxygen free solvents
- Solvent removed from the flask via
  - Top stopcock by syringe
  - Drainage through T-bore stockcock
- Drainage arm utilises a 14/23 Quickfit® cone

Product Code	Approx capacity ml	Approx height (mm)	Cone size	Socket size	Pack qty.
SH9/250	250	225	19/26	19/26	1
SH9/500	500	235	24/29	24/29	1
SH9/1L	1000	270	29/32	29/32	1

Syringes should be purchased separately

The use of solvent still heads involve the use of drying agents and generates hot solvents. Care should be taken when handling these potential hazards.

Adapters, stopcock, cone

- With GP Rotaflo® PTFE stopcock:
  - No lubrication required
  - No contaminating greases
  - Fine flow control
  - Positive closure
- Detachable plastic screwthread connectors allow rubber hose etc. to be fitted easily and safely

Product Code	Cone size	Stopcock bore mm	Pack qty.
MF11/1/SC	14/23	3.0	1
MF11/2/SC	19/26	3.0	1
MF11/3/SC	24/29	3.0	1
MF11/4/SC	29/32	3.0	1

The detachable screwthread connectors accept flexible tubing having a bore of 9mm diameter - see page 96 for details.

Adapters, stopcock, T shape, cone

- With GP Rotaflo® PTFE stopcock providing fine flow control and positive closure
- Detachable plastic screwthread connectors allow rubber hose etc. to be fitted easily and safely

Product Code	Cone size	Stopcock bore mm	Pack qty.
MF11/1B/SC	14/23	3.0	1
MF11/2B/SC	19/26	3.0	1
MF11/3B/SC	24/29	3.0	1

The detachable screwthread connectors accept flexible tubing having a bore of 9mm diameter.

Adapters, stopcock, socket

- With GP Rotaflo® PTFE stopcock providing fine flow control and positive closure
- Detachable plastic screwthread connectors allow rubber hose etc. to be fitted easily and safely

Product Code	Socket size	Stopcock bore mm	Pack qty.
MF14/1/SC	14/23	3.0	1
MF14/2/SC	19/26	3.0	1
MF14/3/SC	24/29	3.0	1

The detachable screwthread connectors accept flexible tubing having a bore of 9mm diameter.

Adapters, tubing, right angle

- With right angle connection for attachment of rubber hose etc.
- Detachable plastic screwthread connectors allow flexible tubing to be fitted easily and safely

Product Code	Cone size	Pack qty.
MF10/1B/SC	14/23	1
MF10/2B/SC	19/26	1
MF10/3B/SC	24/29	1
MF10/4B/SC	29/32	1
MF10/5B/SC	34/35	1

For spare screwthread connectors, please see page 96.

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Adapter, tubing, straight

- With straight connection for the attachment of rubber hose etc.
- Detachable plastic screwthread connectors allow flexible tubing to be fitted easily and safely

Product Code	Socket size	Pack qty.
MF13/2/SC	19/26	1
MF13/3/SC	24/29	1
MF13/4/SC	29/32	1

Screwthread connector accepts rubber hose with a bore of 9mm.

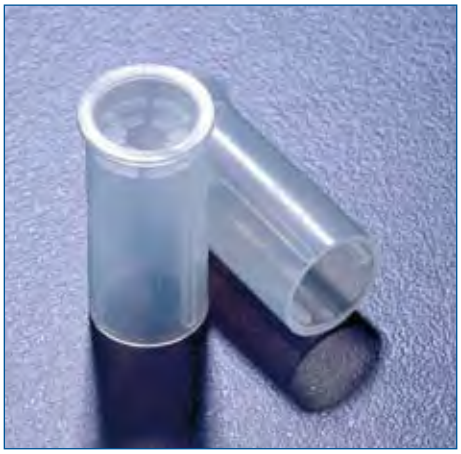
Adapters, tubing, side-arm

- With side-arm for the attachment of rubber hose etc.
- Detachable plastic screwthread connector allows flexible tubing to be fitted easily and safely

Product Code	Socket size	Cone size	Pack qty.
MF17/1/SC	14/23	14/23	1
MF17/2/SC	14/23	19/26	1
MF17/3/SC	14/23	24/29	1
MF18/2/SC	19/26	19/26	1
MF18/3/SC	19/26	24/29	1
MF18/4/SC	19/26	29/32	1
MF18/5/SC	19/26	34/35	1
MF18/33/SC	24/29	24/29	1
MF18/44/SC	29/32	29/32	1

For spare screwthread connectors, please see page 37.

Ampoule breakers, HDPE

- Enables safe and easy breaking of glass ampoules
- Broken ampoule top is retained for safe disposal
- Choice of size to suit all common glass ampoules

Product Code	Ampoule size	Pack qty.
AWY700	1 - 4 ml	1000
AWY702	5 -10 ml	1000