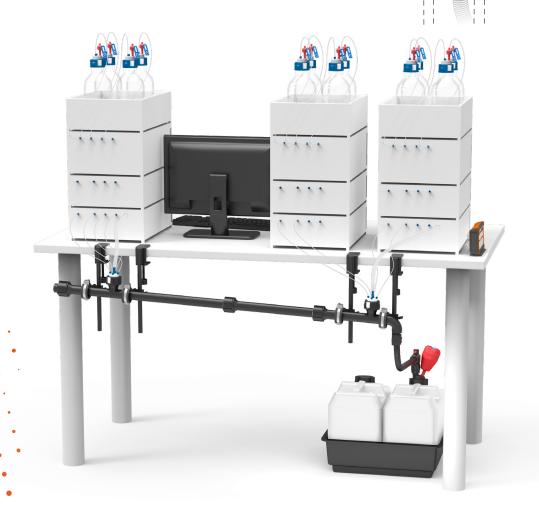


Sym*Line* FLEX

The Flexible Waste Disposal Systemfor HPLC Work Stations.

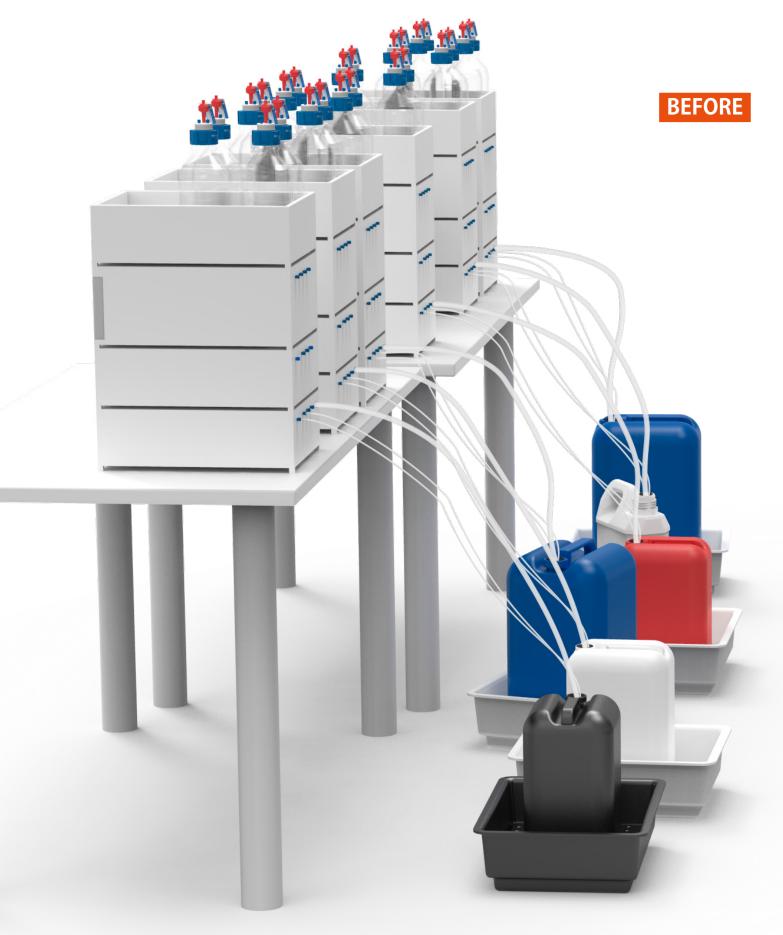
- Retrofit / laboratory refit
- Simple Installation
- **Do-it-yourself modular system**











SymLine FLEX I with SymLine FLEX

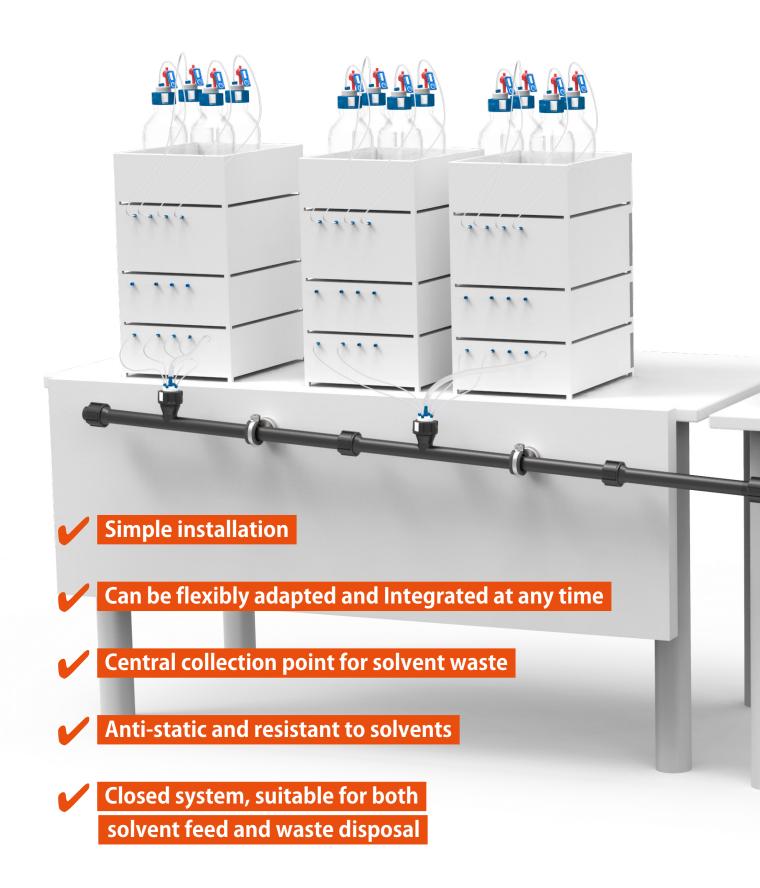






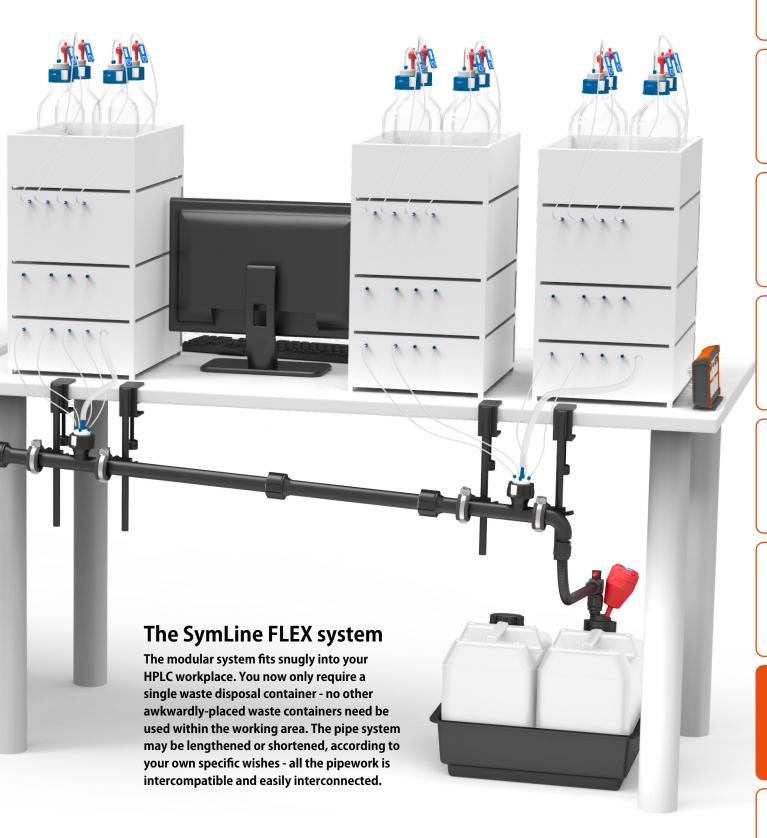


SymLine FLEX | The Flexible Waste Disposal System





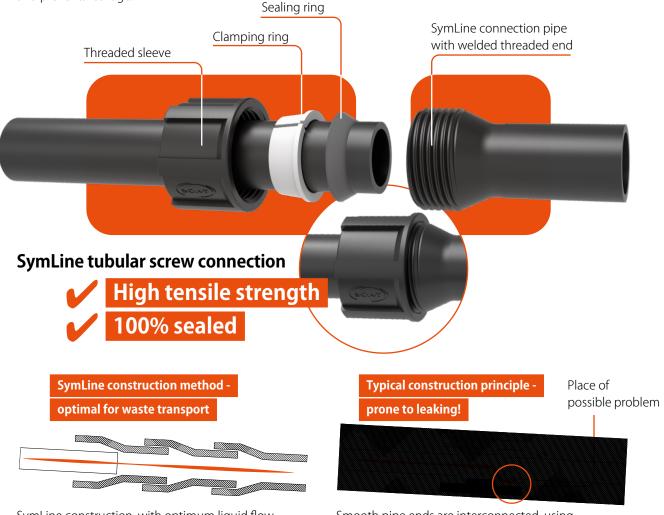
SymLine FLEX | The Flexible Waste Disposal System





The tubular system: safe attachment, optimum flow direction

The SymLine FLEX tube extensions have a funnel-shaped threaded sleeve at one end and a smooth tube opening at the other. In order to tightly interconnect the tubular system, the threaded sleeve, clamping ring and sealing ring are simply pushed over the smooth end of one tube, and this is then firmly screwed on to the threaded part of the following extension piece (i.e. on the other tube). When done properly (tightening torque 10 - 15 Nm), the resulting connection will withstand a tensile force of **400 N**. The system allows for optimum flow of waste liquids and prevents leakage.



SymLine construction, with optimum liquid flow. Liquids flow continually downwards, from the smooth pipe end, into the interconnected threaded one. Smooth pipe ends are interconnected, using connecting sleeves. This results in increased danger of leakage.



SymLine material properties

All components made of electrostatic conductive plastic an be earthed and are suitable for voltage equalization, as per TRGS 727. Electrically conductive PE-HD-EL displays a discharge resistance against earth of $< 10^{9} \Omega$, as per DIN EN 61340-5-1, and is suitable for Zones 0, 1 and 2, as per the German Hazardous Substances Ordinance (GefStoffV), EN 1127-1, DIN EN 60079-10-1 and DIN EN 60079-10-2. It is resistant to chemicals, as defined in SEFA 3 and SEFA 8.

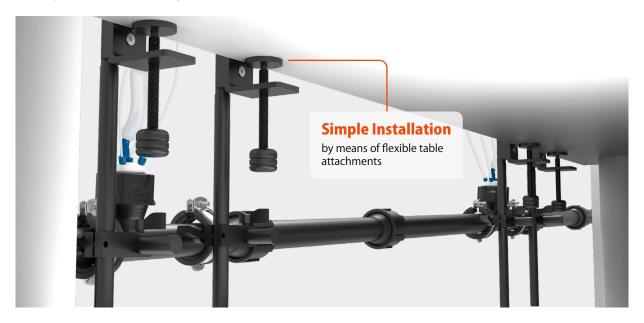


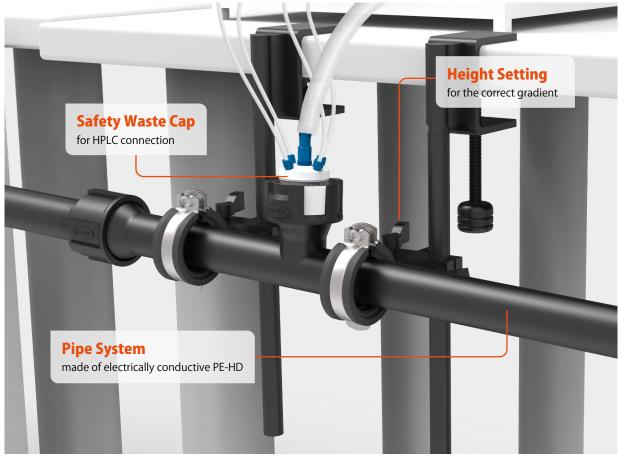


Installation: easy, flexible and safe

The flexible table installation allows for connections to your equipment to be made at any desired place. The resultant height then gives the required gradient - leading to a safe downward flow of liquid.

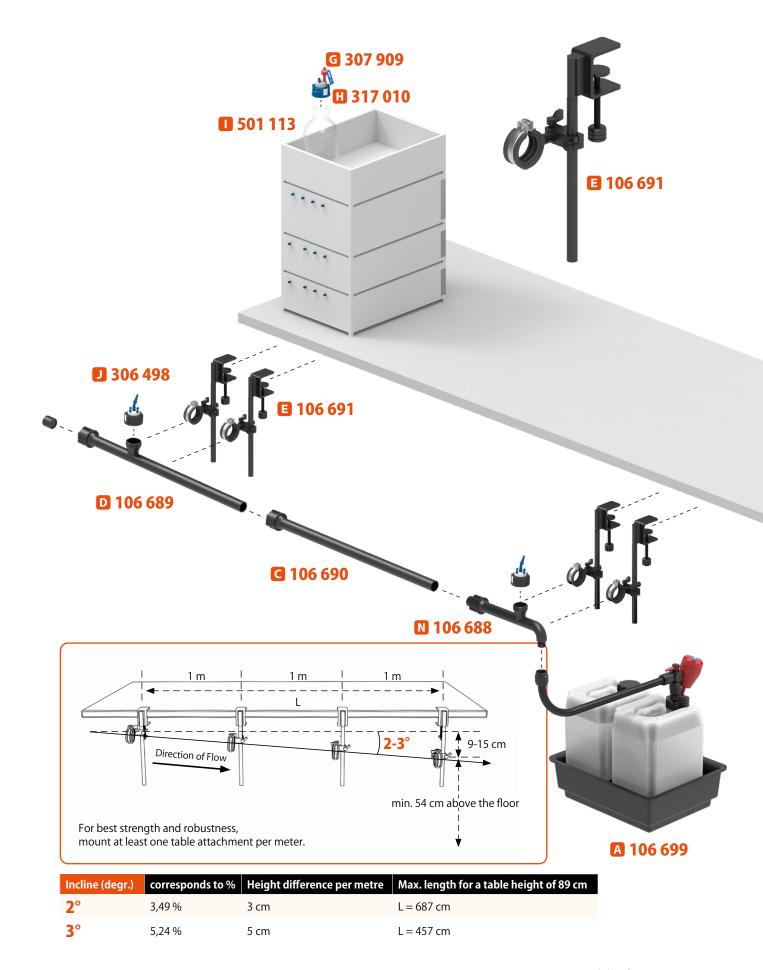
A table mounting is possible for various tabletop thicknesses, and the required attachments can be installed at the tabletop without the use of any tools.







SymLine FLEX | Installation Example Table Attachment





SymLine FLEX | Installation Example Wall Attachment

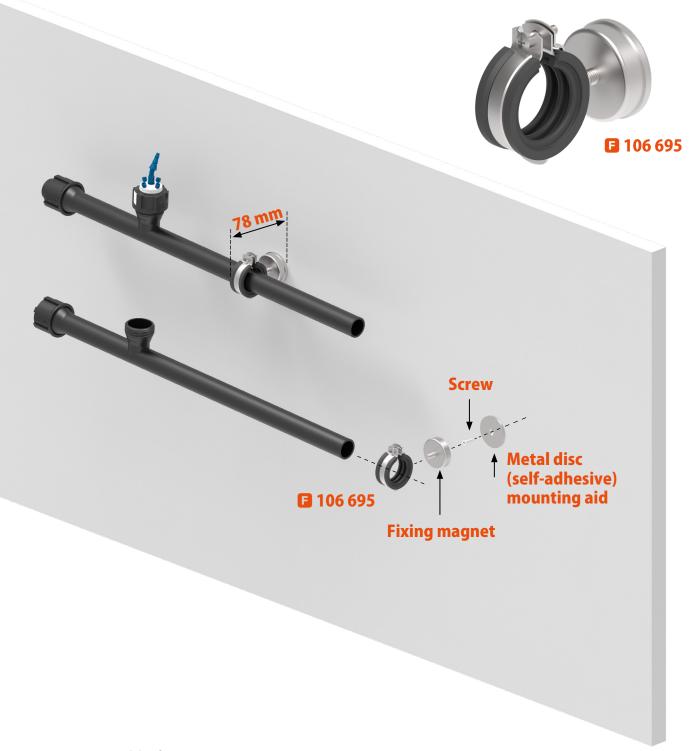
Flexible wall attachment

Screw fastening: suitable for wooden and synthetic surfaces.

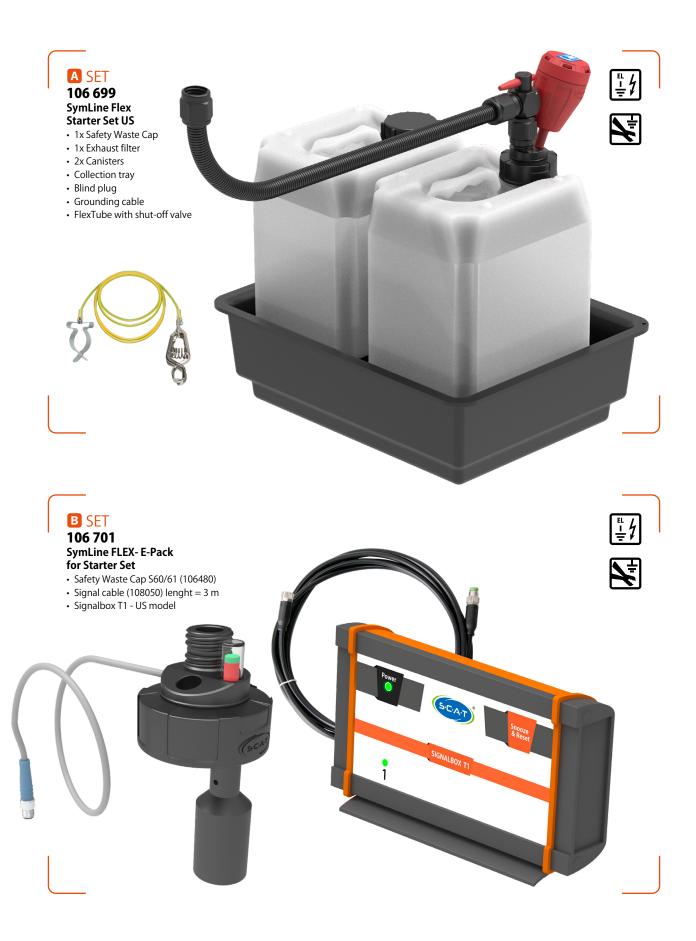
Self-adhesive: non-destructive, suitable for almost all surface types. **We only recommend self-adhesive variants as an aid to attachment!**

Magnetic: non-destructive, suitable for metal surfaces.

The strong fixing magnet provides for a sufficiently strong attachment - without screws.

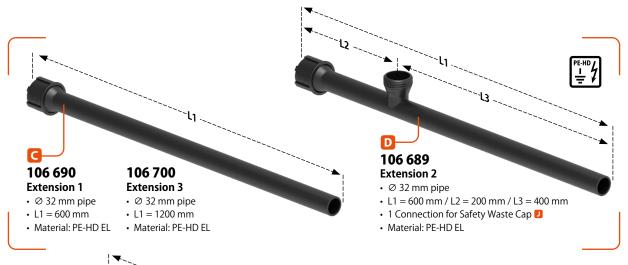








SymLine FLEX | Extensions, Attachments





106 713 T-piece

- Ø 32 mm pipe
- Material: PE-HD EL
- GL45 connection



• Ø 32 mm pipe

- Material: PE-HD EL
- GL45 connection





106 695

Wall attachment

- for Ø 32 mm pipes
- 3 Fastening options:
- Self-adhesive (Mounting aid)
- Screw fastening
- Magnetic





• for table tops with up to 45 mm height

The specific pipe lengths required can be constructed, using a suitable pipe cutter. Shorten the pipes to the desired lengths, on their smooth sides.

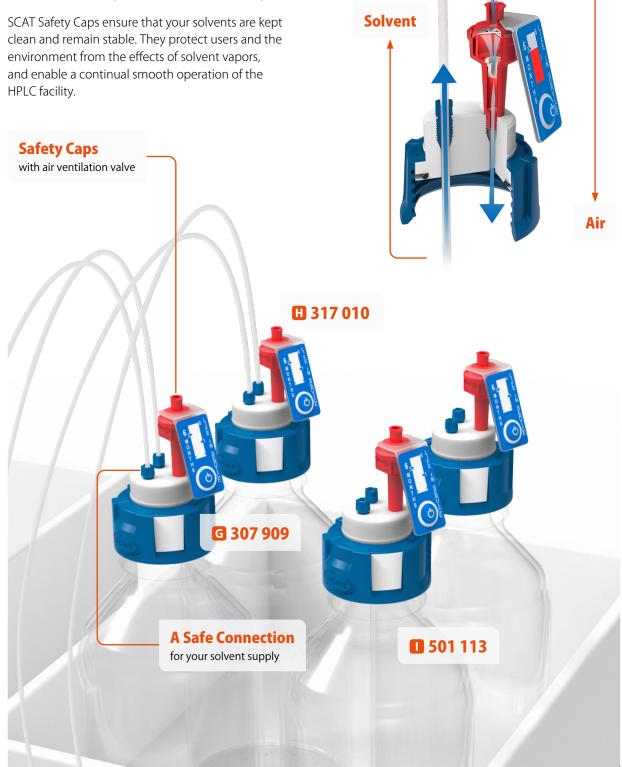


More extentions in chapter pipe and tube system on Site 51.



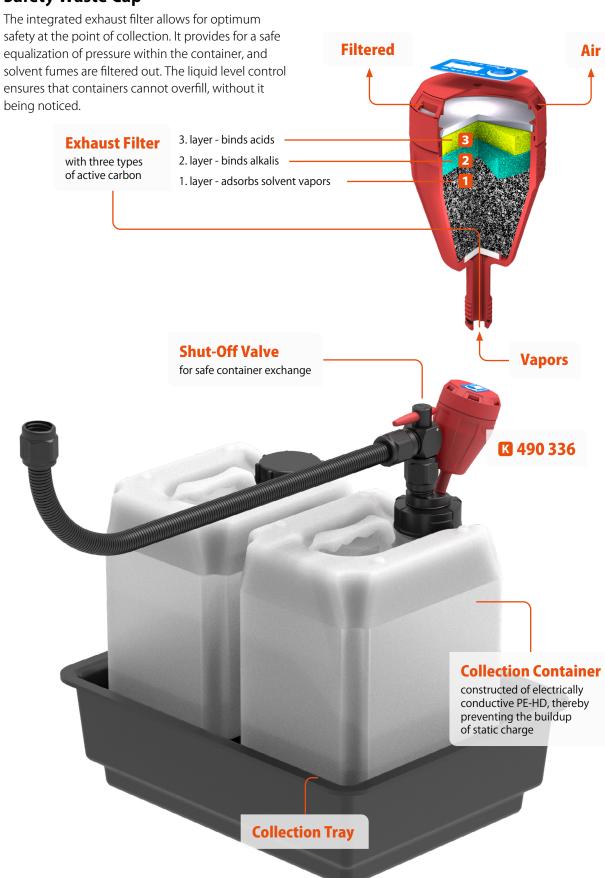
Safety Cap

Proven SCAT safety technology provides for optimum protection, both during the supply, and during the disposal, of solvents. Solvent vapors are blocked and filtered out. The system is therefore independent of other extraction systems within the laboratory.



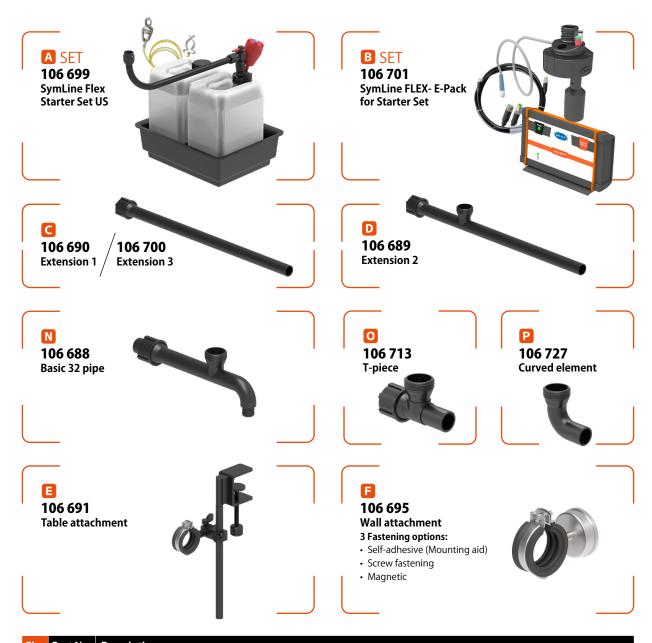


Safety Waste Cap





SymLine FLEX | Overview / Ordering Information



| Fig. | Part No. | Description |
|------|----------|---|
| A | 106 699 | SymLine Flex Starter Set US: FlexTube with shut-off valve,1x Safety Waste Cap,1x Exhaust filter, 2x Canisters, Collection tray, Grounding cable, Blind plug |
| В | 106 701 | SymLine FLEX- E-Pack for Starter Set: Safety Waste Cap S60/61, Signalbox T1 - US model, Signal cable lenght = 3 m |
| C | 106 690 | SymLine FLEX Extension 1, Ø 32 mm pipe, PE-HD-EL, length 600 mm |
| C | 106 700 | SymLine FLEX Extension 3, \oslash 32 mm pipe, PE-HD-EL, length 1200 mm |
| D | 106 689 | SymLine FLEX Extension 2, Ø 32 mm pipe, PE-HD-EL, length 600 mm, 1x connection for Safety Waste Cap ■ |
| N | 106 691 | SymLine FLEX Basic 32 pipe, \oslash 32 mm pipe, PE-HD-EL, lenght 310 mm, GL45 connection |
| 0 | 106 713 | SymLine FLEX T-piece, Ø 32 mm pipe, PE-HD-EL, GL45 connection |
| P | 106 727 | SymLine FLEX Curved element, ∅ 32 mm pipe, PE-HD-EL, GL45 connection |
| E | 106 691 | SymLine FLEX Table attachment, for \varnothing 32 mm pipes, for table tops with up to 45 mm height |
| F | 106 695 | SymLine FLEX Wall attachment, for ∅ 32 mm pipes |

SymLine® Chemical Waste Systems

SymLine FLEX | Overview / Ordering Information

G 307 909

- SCAT SafetyCap II

 For HPLC solvent supply
- With air ventilation valve
- 2 connections forØ 3.2 mm OD capillaries
- GL45 thread



317 010 SCAT Air Ventilation Valve (V2.0)

- For SCAT Safety Caps
- Lifetime: 6 months



160 529 Adapter for Justrite Containers

- stainless steel
- PE-HD-EL
- GL25



K

306 498 SCAT Safety Waste Cap

- For HPLC waste tubes
- 4 Connections for Ø 2.3 / 3.2 mm OD capillaries
- 1 Connection for Ø 5.0 - 11.5 mm ID tube
- Includes blind plugs for unused connections
- Includes fittings and tube connections
- GL45 thread



D 501 1

501 113 Supply bottle

- 1 litre, clear glass
- GL45 thread





490 336 SCAT Exhaust Filter

- For the collection unit
- 3 layers of active carbon





399 202

HPLC Starter Kit 3

- For HPLC solvent supply
- 4x SafetyCap III with air ventilation valve
- Each with 3 connections for Ø 1.6 / 2.3 / 3.2 mm OD capillaries
- Includes blind plugs for unused connections
- GL45 thread



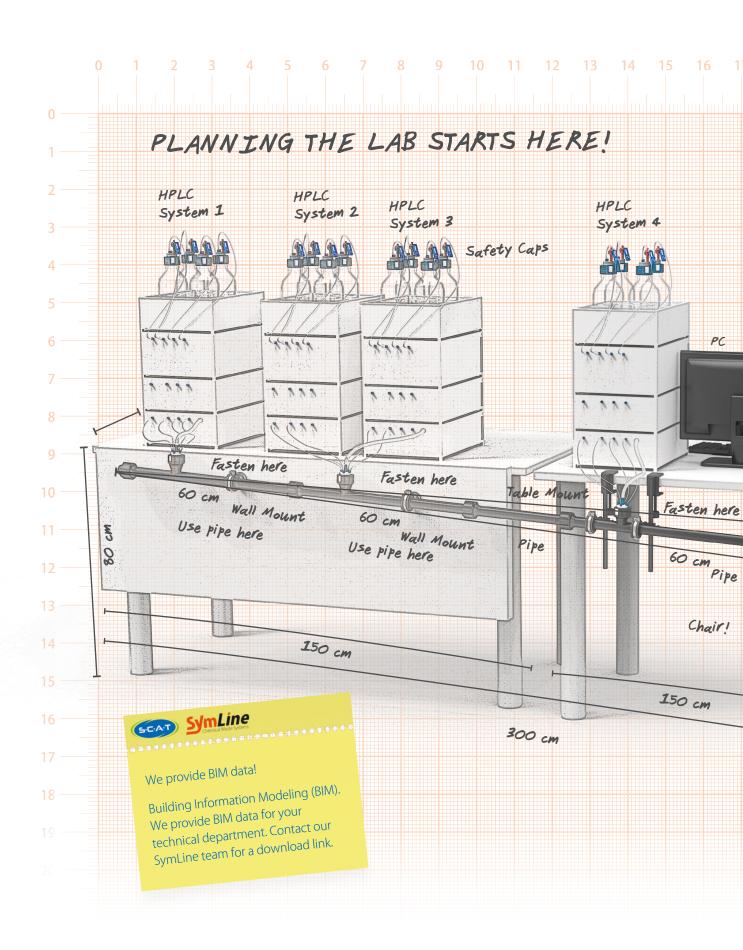






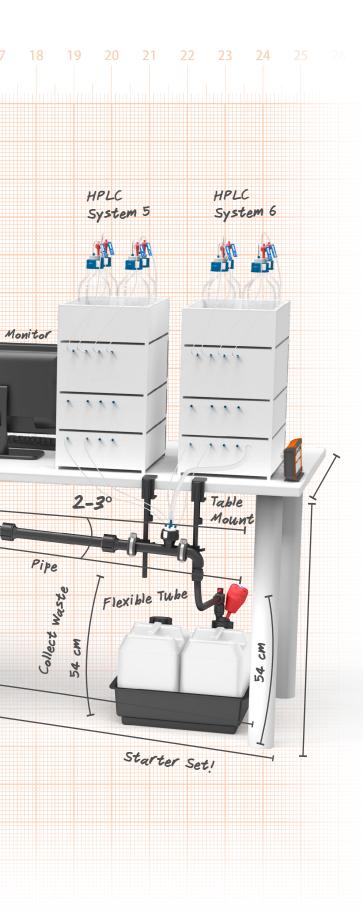
| Fig. | Part No. | Description |
|------|----------|--|
| G | 307 909 | SCAT Safety Cap with Air Ventilation Valve and exchange indicator |
| H | 317 010 | SCAT Air Ventilation Valve with exchange indicator |
| | 501 113 | Supply bottle for solvents, 1 litre, clear glass, round |
| J | 160 529 | Adapter for Justrite Containers, PE-HD electrostatic conductive, GL25 (m) to stainless steel |
| K | 306 498 | SCAT Safety Waste Cap |
| | 490 336 | SCAT Exhaust Filter V3.0 reserve pack, with exchange indicator, Lifetime: 2x 6 months |
| M | 399 202 | HPLC Starter Kit 3 |







SymLine FLEX | Configuration



You are in the planning phase? We are ready to assist you!

Ask your lab furniture manufacturer, lab planner or the SymLine planning team.

