

## Headspace Vials and Seals. GC Instruments

### *Headspace Vials*

- Large volume crimp neck vials for GC Headspace analysis.
- Strong construction allows pressure to build up within the vial without cracking or strain lines.
- 20mm seals with a variety of compositions to cope with temperatures from sub-zero to 250°C
- 20mm crimp caps include aluminium and magnetic versions.

### *Applications*

- Environmental Analysis
- Petrochemicals
- Pharmaceutical QA
- Food and Packaging.
- Fragrances and Flavours.

### *Features:-*

- Rounded bases and shoulders for high pressure strength
- Beveled top for optimal sealing
- 20-CV(A) 20mL amber vial for light sensitive products
- Magnetic Composite Caps to allow use with the CTC PAL series of autosamplers.
- Range of volumes and compatibility with a wide range of instrument types.

### *Benefits*

- Strength
- Reliability
- CTC Instrument compatibility with the 20-MCBC composite caps.

### *Pre-assembled seals*

- Silicone ST3 and Chlorobutyl CBT3 seals are available in pre-assembled 20mm aluminium and magnetic composite crimp caps.



20-CV

20-CV(A)



10-CV  
and  
Seals

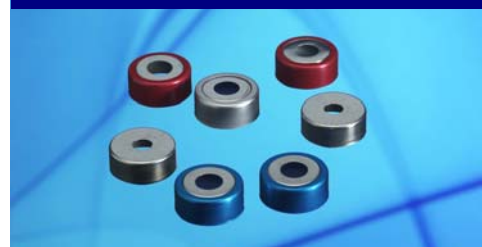
20-LLX

20-ASH3

10-CV

20-CBT3

20-ACB



20-MCBC(R)

20-MCBC(N)

20-MCB

20-MCBC



# Product Briefing

## Headspace Instrument Compatibility

Manufacturer	Models		Vial
Agilent	7694 Headspace		20-CV, 9-CV
Alpha MOS	HS 100		20-CV, 10-CV
ATAS-GL	Focus		20-CV, 10-CV
CTC	CombiPAL	GCPAL	20-CV, 10-CV
DANI	HSS 39.50	HSS 86.50	20-CV, 9-CV
Gerstel	MPS-2		20-CV, 10-CV
NLG/Eurovector	HT200H		20-CV, 10-CV
PE	HS16	HS40	20-CV, 6-CV
Shimadzu	HSS-2B	HSS-4B	27-CV
Shimadzu	AOC-5000	SIL-5000	20-CV, 10-CV
Teledyne Tekmar	7000/7050		22-CV, 12-CV, 9-CV
Varian	Genesis		22-CV
Varian	CP8000 Series CombiPAL		20-CV, 10-CV

- Most instruments will take two sizes of vial. The smaller vials may be used for sample-limited applications.

## Headspace Seal Materials and Compatibilities

Part Number	Description	Thickness	Compatibility
20-ST3	Blue silicone/PTFE seal	3mm	Very clean for selective detectors
20-ST3HT	Red silicone/PTFE seal	3mm	For temperatures up to 250°C
20-AS3	White silicone/aluminium face seal	3mm	For temperatures <170°C
20-ASH3	Red silicone/aluminium face seal	3mm	For temperatures >170°C.
20-CBT3	Blue chlorobutyl/PTFE	3mm	General Purpose
20-CBT3B	Blue chlorobutyl/PTFE seal, bellows type	3mm	"Pharmafix" type
20-CB3	Blue chlorobutyl seal	3mm	No PTFE layer for single injection use only
20-ST15	Blue silicone/red PTFE	1.5 mm	Thin seal for delicate needles.

## Other Seals for Alternative Applications

Part Number	Description	Thickness	Application Area
20-LLX	20mm High Purity Silicone/PTFE Seal	PTFE 0.02mm Silicone 3mm	Liquid Liquid Extraction and Trace Analysis.
20-ST101	Blue Silicone/PTFE	1mm	SPME (With 20-ACB and 20-MCB caps only)
20-1FB3	20mm freeze drying bungs	3mm	Freezer storage/ Reference sample storage
20-2FB3			

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