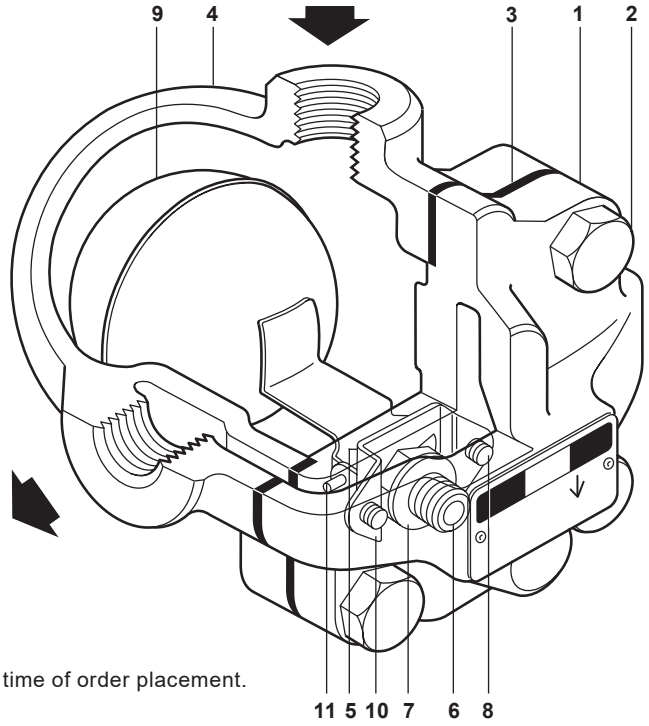
CA14
SG Iron
Air and Gas Trap ½" and ¾" (Screwed)



Description
The CA14 is a range of float type automatic liquid drainers for air and gas systems. The body and cover are of SG iron and the complete unit is readily maintainable.
The standard version with a Viton valve cone is designated CA14.
A stainless steel valve cone version is designated CA14S.

Standards
The product fully complies with the requirements of the Pressure Equipment Directive (PED).

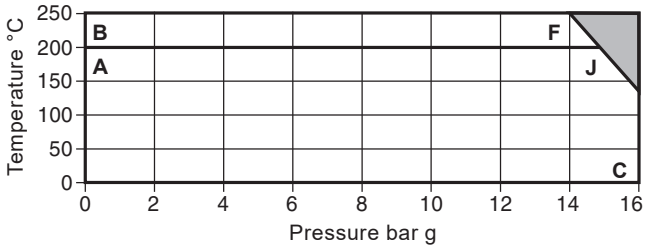
Certification
The product is available with material certification to EN 10204 2.2.
Note: All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections
½" and ¾" screwed BSP or NPT.

Material

No.	Part		Material	
1	Body		SG iron	DIN 1693 GGG 40
2	Cover bolt		Steel	BS 3692 Gr. 8.8
3	Cover gasket	Reinforced exfoliated graphite		
4	Cover		SG iron	DIN 1693 GGG 40
5	Main valve cone	CA14	Synthetic rubber	Viton
		CA14S	Stainless steel	AISI 440B
6	Main valve seat	Stainless steel	BS 970 431 S29	
7	Main valve seat gasket	Stainless steel	BS 1449 304 S11	
8	Main valve assembly screws		Stainless steel	BS 6105 Cl A270
9	Ball float and lever	Stainless steel	BS 1449 304 S16	
10	Pivot frame		Stainless steel	BS 1449 304 S16
11	Pivot pin		Stainless steel	

Pressure/temperature limits



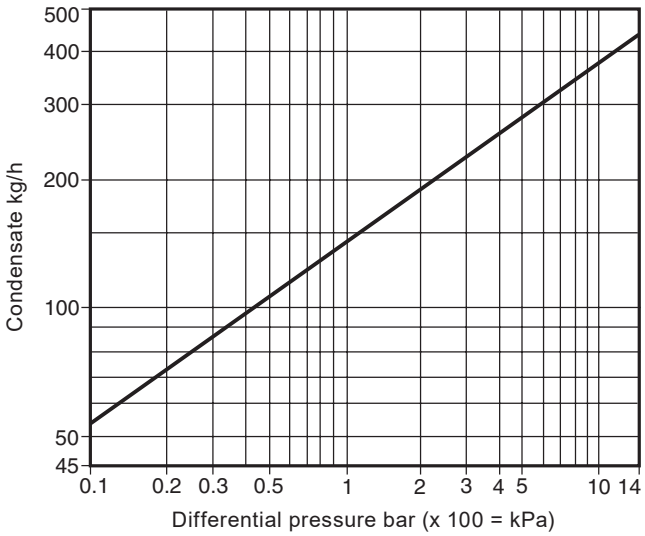
The product **must not** be used in this region.

A-J-C CA14 screwed BSP or NPT.

B-F-C CA14S screwed BSP or NPT.

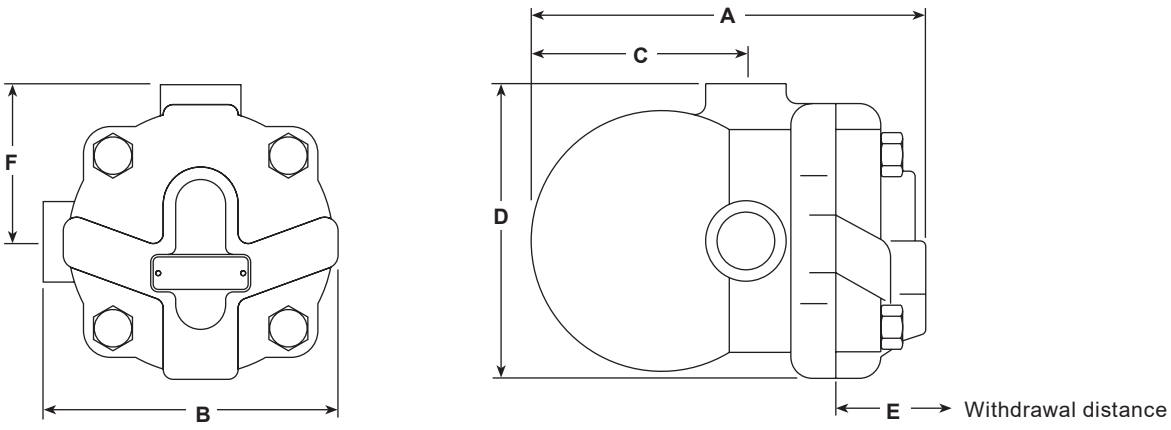
Body design conditions						PN16
PMA	Maximum allowable pressure					16 bar g @ 120 °C
TMA	Maximum allowable temperature					250 °C
Minimum allowable temperature						0 °C
PMO	Maximum operating pressure					16 bar g
TMO	Maximum operating temperature:				CA14	200 °C @ 14.7 bar g
					CA14S	250 °C @ 13.9 bar g
Minimum operating temperature						0 °C
ΔPMX	Maximum differential pressure bar, depending on the specific gravity of the liquid being drained:					
	Specific gravity	1.0	0.9	0.8	0.7	Min. 0.6
	ΔPMX bar	14.0	14.0	14.0	9.0	5.0
ΔPMN	Minimum differential pressure					0.1 bar
Designed for a maximum cold hydraulic test pressure of						24 bar g

Capacities



Dimensions (approximate) in mm and kg

Size	A	B	C	D	E	F	Weight
½"	147	114	80	114	105	60.5	2.5
¾"	147	114	80	114	105	60.5	2.5



Safety information, Installation and Maintenance

For full details see the Installation and Maintanence Instructions (IM-P144-02) supplied with the product.

Installation note:

The CA14 must be installed with the direction of flow as indicated on the body, and with the float arm in a horizontal plain so that it rises and falls vertically.

Disposal

If a product which contains a Viton component has been subjected to a temperature approaching 315 °C or higher, then it may have decomposed and formed hydrofluoric acid. Avoid skin contact and inhalation of any fumes as the acid will cause deep skin burns and damage to the respiratory system. Viton must be disposed of in a recognised manner as stated in the Installation and Maintenance Instructions. No other ecological hazard is anticipated with the disposal of this product providing due care is taken.

How to order

Example: 1 off Spirax Sarco ½" CA14 having screwed BSP connections with SG iron body and cover.

Spare parts

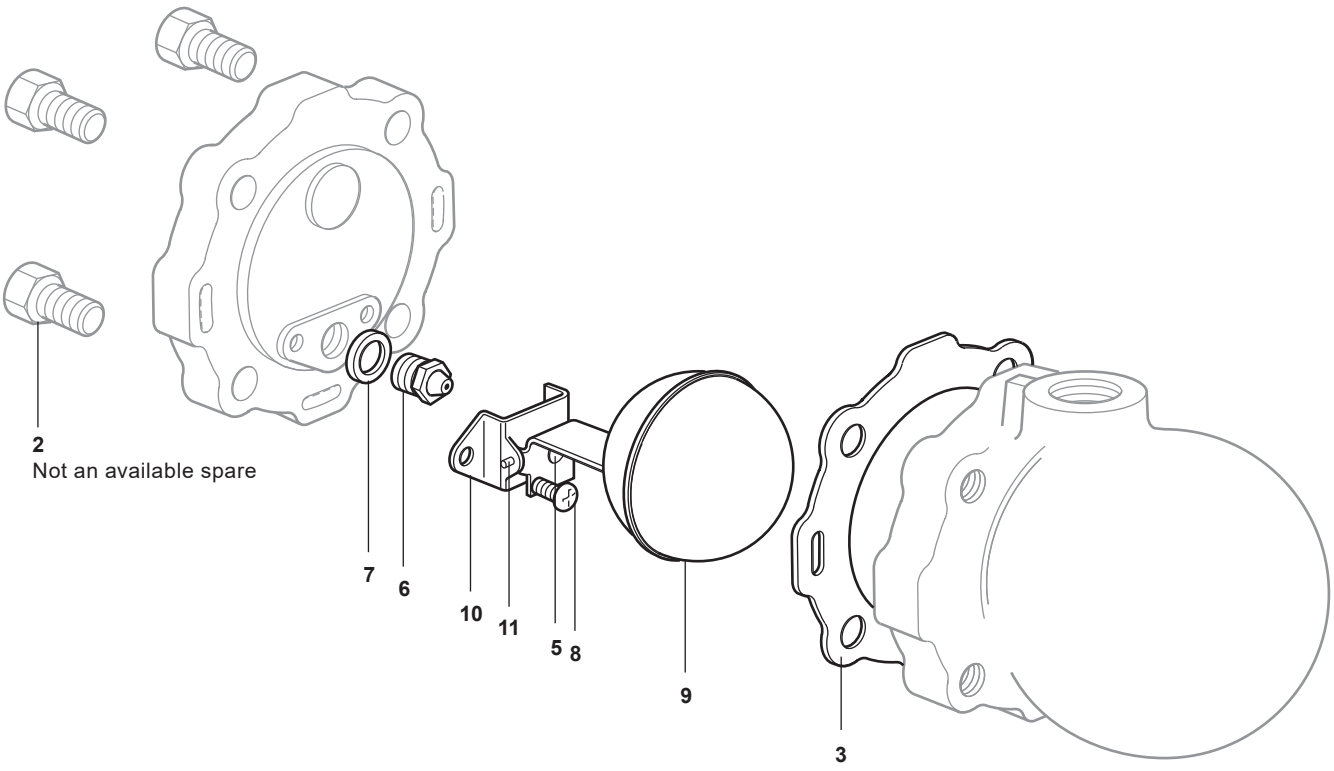
The spare parts available are shown in heavy outline. Parts drawn in a grey line are not supplied as spares.

Available spares

Maintenance kit	CA14	**3, 5+9, 6, 7, 8 (2 off), 10, 11**
	CA14S	**3, 5+9, 6, 7, 8 (2 off), 10, 11**
Seal kit	CA14	**3, 5**

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of trap.
Example: 1 off Maintenance kit for a Spirax Sarco ½" CA14 air and gas trap.



Recommended tightening torques

Item	or mm		N m
2	17 A/F	M10 x 30	47 - 50
6	17 A/F		50 - 55
8	Pozidrive	M4 x 6	2.5 - 3.0