

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 cover will be drilled and tapped ½" BSP or NPT for the purpose of fitting a balance line. The standard version with a Viton valve cone is designated CA14 (DN15 and DN20 only). A stainless steel valve cone version is designated CA14S. Both are available with horizontal flanged connections with flow from right to left CA14 (R-L) or from left to right CA14 (L-R).

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Standards

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

Certification

The product is available with a manufacturer's Typical Test Report. **Note:** All certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

DN15, DN20 and DN25. Flanged EN 1092 PN16, ASME 150 and JIS/KS 10K.

CA14 (R-L)

DN15 and DN20 shown





IVI	aterial	5					
No.Part			Material				
				EN-GJS-400-15,			
*1	Body		SG iron	EN 1563,			
				EN JS1030 (GGG 40.3)			
2	Cover bolts		Steel	BS 3692 Gr. 8.8			
3	Cover gasket		Reinforced ex	foliated graphite			
				EN-GJS-400-15,			
4	Cover		SG iron	EN 1563,			
				EN JS1030 (GGG 40.3)			
5	Main valve cone	CA14	Synthetic rubber	Viton			
		CA14S	Stainless steel	AISI 440B			
6	Main val	ve 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 CI A2-70			
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				
*12	Erosion deflector	(DN25 only)	Stainless steel	BS 970 431 S29			
*13	Valve spring	(DN25 only)	Stainless steel	BS 2056 302 S26			

Note: Item 12 is pressed into item 1 (DN25 only).

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Pressure/temperature limits

Capacities



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	
	∆PMX bar	14.0	14.0	14.0	9.0	5.0	
ΔΡΜΧ	X Minimum differential pressure						r
							Î

Designed for a maximum cold hydraulic test pressure of 24 bar g



Safety information, installation and maintenance

For full details see the Installation and Maintanence Instructions (IM-P148-13) 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 DN15 CA14 with SG iron body with cover flanged to EN 1092 PN16. **Note:** Unless specified at the time of ordering, a right to left flow will be supplied e.g. CA14 (R-L).

Dimensions/weights (approximate) in mm and kg

Size	DIN/ASME A	JIS/KS	В	с	D	E	F	G	Weight
		Α							
DN15	150	150	107	101	51	47	26.5	115	4.5
DN20	150	150	107	101	55	47	26.5	115	5.0
DN25	160	170	117	70	100	10	21.0	120	6.5







Spare parts

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

Available spares

	CA14	3, 5+9, 6, 7, 8 (2 off), 10, 11		
Maintenance kit	CA14S	3, 5+9, 6, 7, 8 (2 off), 10, 11, 13 (DN25 only)		
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 DN15 CA14 air and gas trap.

Recommended tightening torques

ltem	or	mm	N m
2	17 A/F	M10 x 30	47 - 50
5	17 A/F	M12 x 12	50 - 55
8	Pozidrive	M4 x 6	2.5 - 3.0

Note: Item 2 is not an available spare.

