spirax /sarco®

Stainless Steel Drain Trap CAS14 and CAS14S

The float-operated liquid drain trap discharges continuously in direct response to variations in liquid flow rate, assuring thorough drainage of the system.

Model	CAS14	CAS14S	
Sizes	1/2", 3/4" , 1"		
Connections	NPT, SW		
Construction	316 Stainless Steel Body, Stainless Steel Internals		

Typical Applications

Process applications requiring an austenitic stainless steel liquid drain trap.

Limiting Operating Conditions

Max. Operating Conditions PMO up to 200 psig 14 barg (see chart below for sg lower than 1)

Max. Operating Temperature TMO CAS14 392°F 200°C CAS14S 437°F 225°C

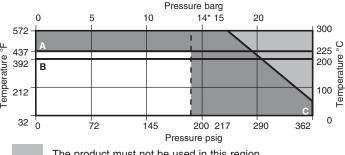
Minimum specific gravity

Pressure Shell Design Conditions

PMA - Maximum Allowable Pressure 362 psig 25 barg

572 °F 300°C TMA - Maximum Allowable Temperature

Operating range



The product must not be used in this region.

The Viton soft seat versions should not be used in this region as damage to the internals may occur.

*PMO Maximum operating pressure 200 psig - 14 barg.

A - C CAS14S B - C CAS14

∆PMX - Maximum differential pressure

The maximum differential pressure depends on the specific gravity of the liquid being drained.

	Specific gravity				
Trap	1.0 0.9 0.8 0.7 0.6				
	Maximum differential pressure psig				
CAS14	200	200	200	130	72
CAS14S	200	200	200	130	72

Construction Materials

No.	Part	Material			
1	Body	Austenitic	EN 10213-4 (1.4408)		
		stainless steel (316	S) ASTM A351		
	CF8M				
2	Cover bolts	Stainless steel	BS EN 3506 A2-70		
3	Cover gasket	Reinforced exfoliat	ed graphite		
4	Cover	Austenitic	EN 10213-4 (1.4408)		
		stainless steel (316	S) ASTM A351 CF8M		
5	Main valve seat	Stainless steel	BS 970 431 S29		
6	Main valve				
	seat gasket	Stainless steel			
7	Main valve	Stainless steel			
	assembly screws				
8	Ball float				
	and lever	Stainless steel	BS 1449 304 S16		
9	Valve cone	CAS14	Viton		
		CAS14S	Stainless steel AISI 440B		
_10	Blanking plug	Stainless steel			
_12	Pivot frame	Stainless steel			
_14	Pivot pin	Stainless steel			
15	'O' ring	FDA approved vito	n to		
		FDA regulation 177.2600			
*16	6 Valve spring (1" only) Stainless steel				
thinks themse O and 4 C are already identified on the headsoids					

*Note: Items 9 and 16 are clearly identified on the backside.

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only, TI-P148-38-US 10.09 In the interests of development and improvement of the product, we reserve the right to change the specification.

Stainless Steel Liquid Drain Trap CAS14 and CAS14S

Capacity

The discharge capacity depends on the differential pressure (inlet pressure minus outlet pressure) and the specific gravity of the liquid being drained. See TI-7-318.

Sample Specification

Drain traps shall be of the mechanical ball float type having stainless steel bodies, vertical line connections, and all stainless steel internals. All internals are to be renewable and field serviceable.

Installation

The trap must be fitted in a vetical pipe line with direction of flow as indicated and so that the float mechanism is free to rise and fall in a vertical plane. Full-flow isolating valves should be placed to permit servicing.

The trap discharge should be piped to a safe place.

Maintenance

This product can be maintained without disturbing the piping connections. Complete isolation of the trap from both supply and return line is required before any servicing is performed.

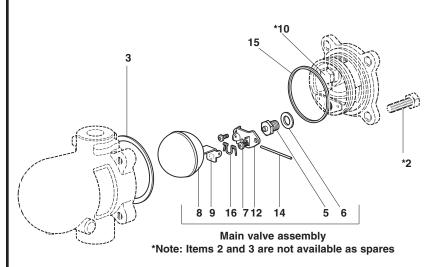
The trap should be disassembled periodically for inspection and cleaning of the valve head and seat.

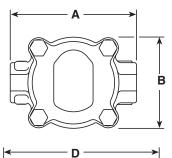
Worn or damaged parts should be replaced using a complete repair kit. Complete installation and maintenance instructions are given in IM-P148-39 which accompanies the product.

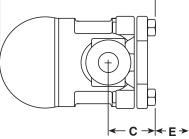
Liquid drain traps can be used to drain most liquids from most gases. However, some applications, particularly those involving hazardous or unusual fluids, may be subject to regulation or may otherwise require special consideration. Traps used on volatile gas application should never discharge to atmosphere. They need to drain into a containment system or flare line.

Spirax Sarco will endeavor to provide whatever data is necessary to assist in product selection.

Spare Parts







Dimensions (nominal) in inches and millimeters						
Size	Α	В	С	D	E Withdrawal distance	Weight Ibs kg
1/2"	5.3 135	3.8 <i>97</i>	1.9 <i>48</i>	6.4 162	5.3 135	8.2 3.73
3/4"	5.3 135	3.8 97	1.9 48	6.4 162	5.3 135	8.2 3.73
1"	5.5 139	4.4 113	2.0 51	7.0 179	5.7 1145	9.3 4.23

Spare parts

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

Available spares

Maintenance	CAS14	3,5,6,7 (2 off), 8, 9, 12, 14, 15
Kit	CAS14S	3, 5, 6, 7 (2 off), 8, 9, 12, 14+16 (1"only), 15
Seal Kit	3, 9, 15	

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 - Maintenance kit for a Spirax Sarco 1/2" CAS14 austenitic stainless steel liquid drain trap.

Recommended tightening torques

Item	Part	or mm	FT./LBS
2	Cover bolt	M10 x 30	15 - 18
5	Main valve seat	17 A/F	36 - 37
7	Main valve	Pozidrive M4 x 6	2 - 2.2
	assembly screws		
10	Blanking plug	17 A/F	36 - 37

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