



Cert. No. LRQ 0963008 ISO 9001

spirax /sarco **HM34 Series Carbon Steel Inverted Bucket Steam Traps**

Description

The HM34 is an inverted bucket steam trap manufactured in carbon steel with an internal strainer fitted as standard.

It is designed for use on horizontal installations and will operate on steam pressures up to 32 bar g.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 97/23/EC.

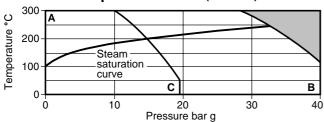
Certification

This product is available with 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", ¾" and 1" screwed BSP or NPT.
DN25 socket weld ends BS 3799 Class 3000.
DN15, DN20 and DN25 standard flange EN 1092 PN40.
Available on request: Flanged ANSI 150 and ANSI 300 connections.

Pressure/temperature limits (ISO 6552)



The product must not be used in this region.

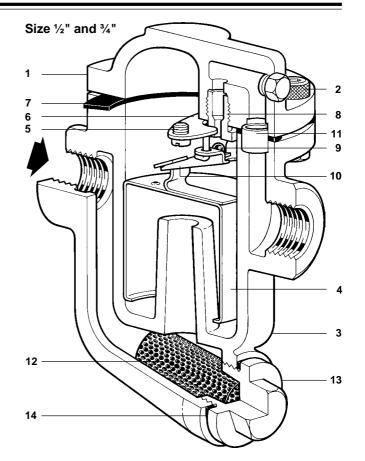
Screwed, socket weld, flanged EN 1092 PN40 and ANSI 300. Flanged ANSI 150

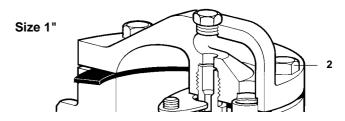
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Body design conditions								
PMA	Maximum a	Maximum allowable pressure @ 120°C						
TMA	Maximum a	300°C						
Minimur	m allowable t	emperatu	re			-10°C		
РМО		Maximum operating pressure for saturated steam service						
TMO	Maximum o	300°C						
Minimur	m operating t	emperatu	re			0°C		
ΔΡΜΧ	Maximum d Size	32 bar						
	DN15 - 1/2"	HM34/4						
	DN20 - ¾"	HM34/6	HM34/5					
	DN25 - 1"	HM34/12	HM34/10	HM34/8	HM34/6	HM34/5		

Designed for a maximum cold hydraulic test pressure of 60 bar g

Materials

No	o. Part		Material	
1	Cover	1/2", 3/4"	Forged steel	1.0460 (C22.8)
1 Cover	1"	Cast steel	1.0619 +N	
	Cover screws	5 ½", ¾"	Steel	BS 4168 Gr. 8.8
2	Cover bolts	1"	Steel	BS 3692 Gr. 8.8
	Cover nuts	1/2", 3/4", 1"	Steel	BS 3692 Gr. 8.8
3	Body		Cast steel	1.0619 +N
4	Bucket		Stainless steel	BS 1449 304 S31





No	. Part		Material	
5	Valve guide plate screw		Stainless steel M 4.5 x 10	BS 4183 18/8
6	Valve guide p	olate	Stainless steel	BS 1449 304 S11
7	Cover gasket	t	Reinforced exfo	oliated graphite
8	Valve seat		Stainless steel	AISI 440B
9	Valve		Stainless steel	AISI 440B
10	Valve lever		Stainless steel	BS 1449 321 S31
11	Ferrule	1/2",3/4"	Stainless steel	BS 970 321 S31
	renule	1"	Stainless steel	BS 3605 (CFS) 304 S14
12	Strainer scree	en	Stainless steel	ASTM A240 316L
13	Strainer cap		Steel	1.0460 (C22.8)
14	Strainer gask	et	Reinforced exfo	oliated graphite

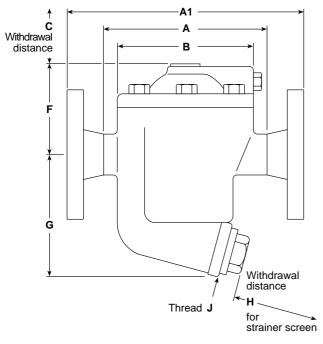
Capacities

See TI-P072-02 for full details of capacities.

Dimensions / weights (approximate) in mm and kg

Screwed and socket weld connections

Size	Α	A 1	В	С	F	G	Н	J	Weight
1/2"	120	210	105	100	67	89	65	M28	2.6
3/4"	120	210	105	100	88	107	65	M28	4.0
1"	180	230	160	160	145	120	85	M32	10.4



Flanged connections

Size	Α	A 1	В	С	F	G	Н	J	Weight
DN15	120	210	105	100	67	89	65	M28	4.5
DN20	120	210	105	100	88	107	65	M28	7.0
DN25	180	230	160	160	145	120	85	M32	12.0

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (IM-S03-11) supplied with the product.

Installation note:

The trap must be installed with the body upright so that the bucket is rising and falling vertically. The inlet and outlet connections should be in a horizontal plane, with the trap installed below the drain point so that a water seal can be maintained around the open end of the bucket.

Disposal:

This product is recycable. No ecological hazard is anticipated with the disposal of this product providing due care is taken.

How to order

Example: 1 off Spirax Sarco ½" HM34/8 inverted bucket steam trap with screwed BSP connections.

Spare parts

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

Available spares

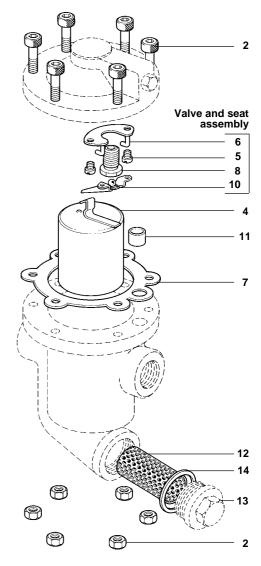
Valve and seat assembly	5 (2 off)	, 6, 8, 10
Bucket		4
Cover gasket and ferrule	(packet of 3 each)	7, 11
Strainer screen		12
Strainer screen gasket	(packet of 3 each)	14
Set of cover bolts and nuts	(set of 6)	2

How to order spares

Always order spare parts by using the description given in the column headed 'Available spares' and state the size, type of trap and pressure range.

and pressure range.

Example: 1 off Valve and seat assembly for a Spirax Sarco DN15 HM34/7 inverted bucket steam trap.



Recommended tightening torques

Item no.	Size		or 🚔	N m
2	1/2", 3/4"		M8 x 30	25 - 28
	1		M12 x 45	25 - 28
8	1/2", 3/4"	13	-	50 - 55
O	1"	13	-	80 - 88
13	1/2", 3/4"	22	M28	90 - 100
	1"	27	M32	125 - 145