

TI-P072-01 CMGT Issue 9

Description

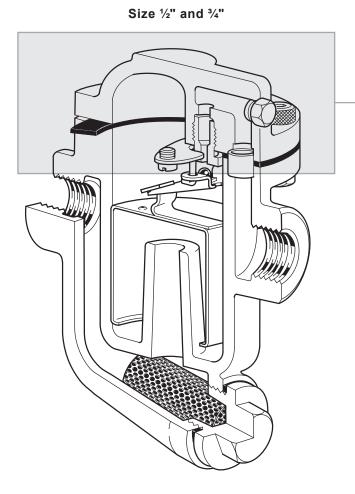
The HM34 is an inverted bucket steam trap manufactured in carbon steel with an internal strainer fitted as standard. It is designed for use on horizontal installations and will operate on steam pressures up to 32 bar g.

Standards

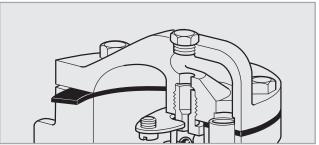
This product fully complies with the requirements of the Pressure Equipment Directive 2014/68/EU.

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.





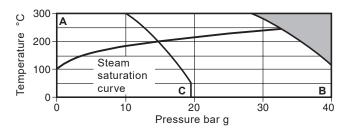


Drawing to show difference in top connection for 1" model

Sizes and pipe connections

¹/₂", ³/₄" and 1" screwed BSP T Rp (ISO 7-1) or NPT. DN25 socket weld ends BS 3799 Class 3000. DN15, DN20 and DN25 standard flange EN 1092 PN40. Available on request: Flanged Class 150 and Class 300 connections.

Pressure/temperature limits (ISO 6552)



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

A - B Screwed, socket weld, flanged EN 1092 PN40 and Class 300.

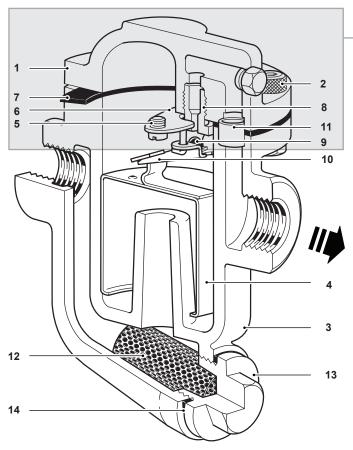
A - C Flanged Class 150

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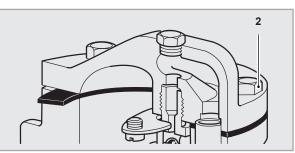
Body design condition	s					PN40
PMA Maximum allowa	able pressure				40 bar g	g @ 120 °C
TMA Maximum allowa	able temperature					300 °C
Minimum allowable ter	nperature					-10 °C
PMO Maximum opera	ting pressure for sat	turated steam serv	ice			32 bar g
TMO Maximum opera	ting temperature					300 °C
Minimum operating ter	mperature					0 °C
ΔPMX Maximum differential pressure						
Size	4 bar	8.5 bar	12 bar	20 bar	32 bar	
DN15 - ½"	HM34/8	HM34/7	HM34/6	HM34/5	HM34/4	
DN20 - ¾"	HM34/10	HM34/8	HM34/7	HM34/6	HM34/5	
DN25 - 1"	HM34/12	HM34/10	HM34/8	HM34/6	HM34/5	
Designed for a maxim	um cold hydraulic te	st pressure of:				60 bar g

Materials

Size 1/2" and 3/4"



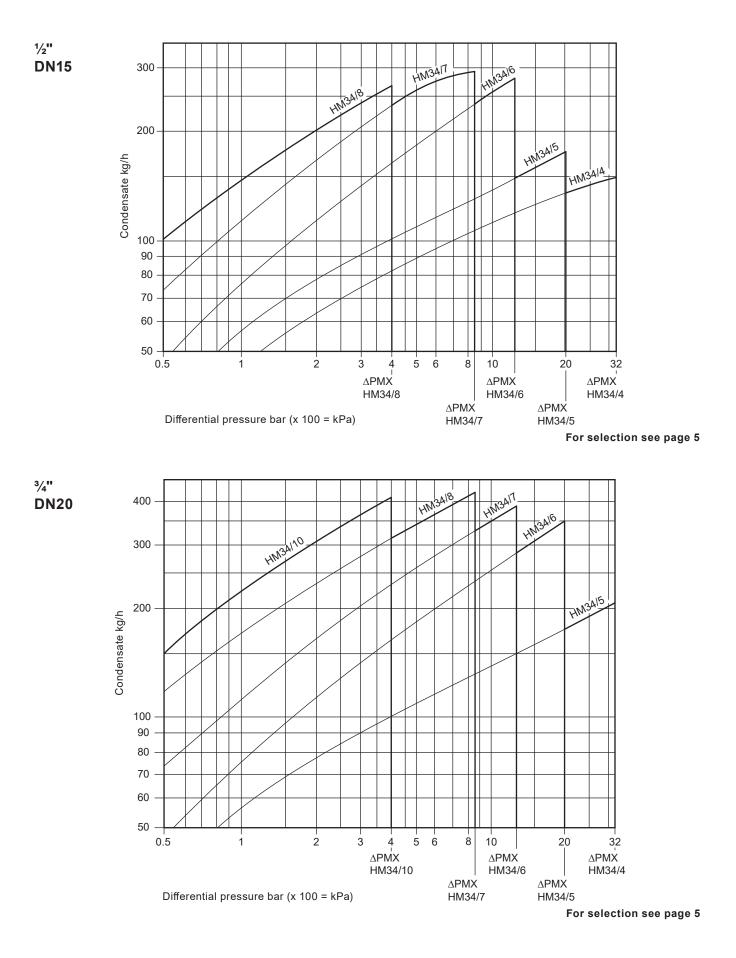
Size 1"



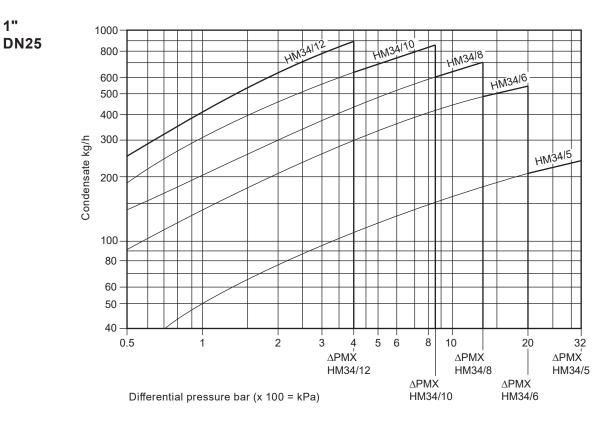
Drawing to show difference in top connection for 1" model

No	.Part		Material			
_	0	1/2", 3/4"	Forged steel	1.0460 (C22.8)		
1	Cover	1"	Cast steel	1.0619 +N		
	Cover screws	1/2", 3/4"	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		
5	Valve guide plate screw		Stainless steel M 4.5 x 10	BS 4183 18/8		
6	Valve guide plate		Stainless steel	BS 1449 304 S11		
7	7 Cover gasket		Reinforced exfoliated graphite	Reinforced exfoliated graphite		
8	Valve seat		Stainless steel	AISI 431		
9	Valve		Stainless steel	AISI 440B		
10	Valve lever		Stainless steel	BS 1449 321 S31		
		1/2",3/4"	Stainless steel	BS 970 321 S31		
11	Ferrule	1"	Stainless steel	BS 3605 (CFS) 304 S14		
12	Strainer screen		Stainless steel	ASTM A240 316L		
13	Strainer cap		Steel	1.0460 (C22.8)		
14	14 Strainer gasket		Reinforced exfoliated graphite			

Capacities





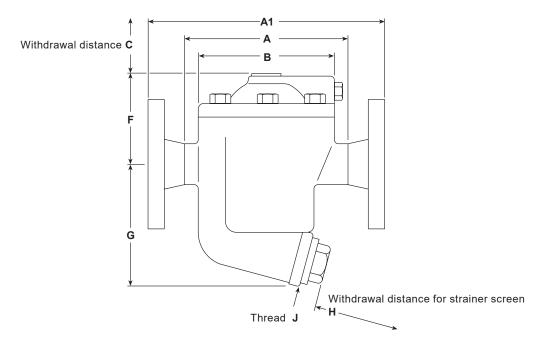


Selection note: Traps should be selected for the most appropriate working pressure differential and not on the basis of load, For example; DN25 HM34 with a load of 80 kg/h at 7 bar differential should be handled by an HM34/10 and not an HM34/5.

Dimensions/weights (approximate) in mm and kg

Size	А	В	С	F	G	н	J	Weight
1/2"	120	105	100	67	89	65	M28	2.6
3/4"	120	105	100	88	107	65	M28	4.0
1"	180	160	160	145	120	85	M32	10.4
Flanged cor	A1	В	С	F	G	н	J	Weigh
DN15	210	105	100	67	89	65	M28	4.5
DN20	210	105	100	88	107	65	M28	7.0

Screwed and socket weld connections



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 1/2" HM34/8 inverted bucket steam trap with screwed BSP T Rp (ISO 7-1) connections.



Spare parts

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

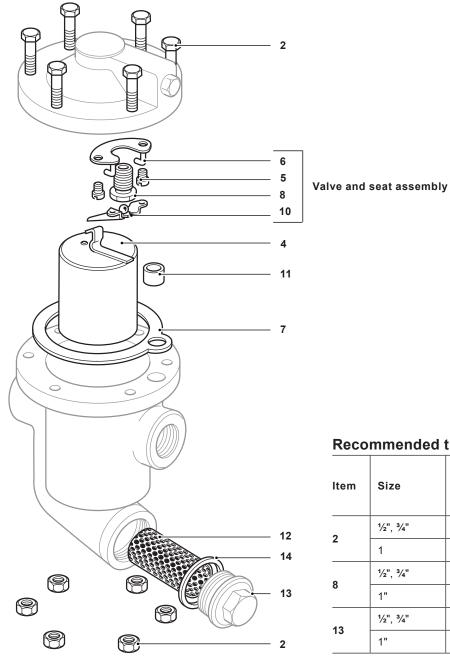
Available spares

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.

Example: 1 off Valve and seat assembly for a Spirax Sarco DN25 HM34/7 inverted bucket steam trap.



Recommended tightening torques

ltem	Size		nr m	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
	1"	17	-	80 - 88
13	1/2", 3/4"	22	M28	90 - 100
	1"	27	M32	125 - 145