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Inverted Bucket Steam trap HM 34 Cast Steel

Description:

The Spirax MM 34 Cast Steel Inverted Bucket steam trap is designed so that it may be fitted into horizontal pipelines. It is maintainable in line and is complete with integral strainer screen.

Sizes:

15NB, 20NB and 25NB

End Connections:

Screwed BSPT/NPT
 Socket Weldable Ends.

Limiting Conditions:

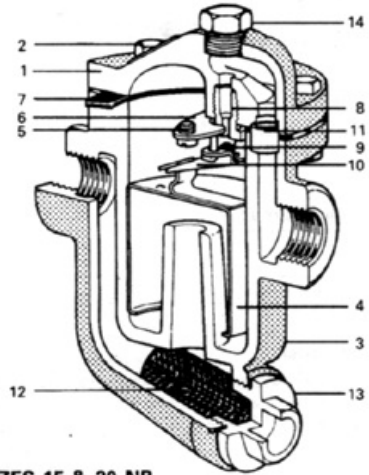
Maximum body design conditions 42 barg
 PMA - max. allowable pressure 32 barg
 TMA - max. allowable temperature 300 °C
 Cold hydraulic test pressure 84 barg
 Maximum operating conditions depend upon orifice size.

Δ PMX - max. differential pressure.

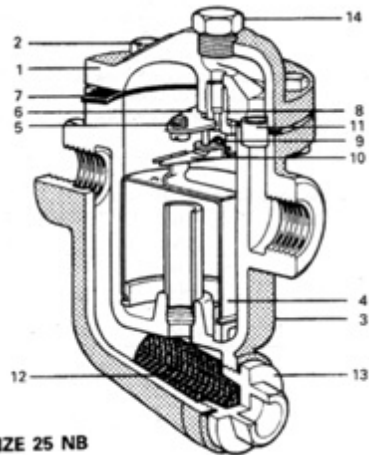
15 NB	20 NB	25 NB	Δ PMX (bar)
HM34/4	HM34/5	HM34/5	32.0
HM34/5	HM34/6	HM34/6	20.0
HM34/6	HM34/7	HM34/8	12.0
HM34/7	HM34/8	HM34/10	8.5
HM34/8	HM 34/10	HM 34/12	4.0

Material:

No.	Part	Material	Standard
1	Cover	Cast Steel	ASTMA216WCB
2	Cover Studs & Nuts for 15NB & 20NB for 25 NB	Steel M 8 x 30 mm M 12x50 mm	IS 1367
3	Body	Cast Steel	ASTM216WCB
4	Bucket	Stainless Steel Type 304	ASTM A 240
5	Valve Guide Plate Screws	Stainless Steel Type 304	IS 1364
6	Valve Guide Plate	Stainless Steel Type 304	ASTM A 240



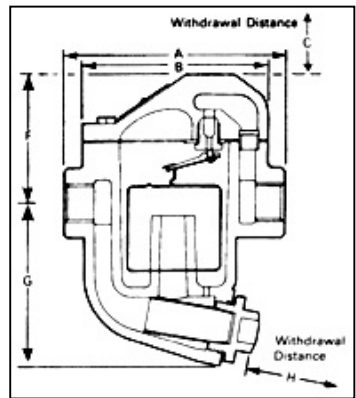
SIZES 15 & 20 NB



SIZE 25 NB

6.4

7	Cover Gasket	Reinforced exfoliated graphite	
8	Valve Seat	Stainless Steel Type 304	ASTM A 276 Type
9	Valve	Stainless Steel	-----
10	Valve Lever	Stainless Steel Type 304	ASTM A 240
11	Ferrule	Stainless Steel Type 304	ASTM A 213
12	Strainer Screen	Stainless Steel Type 304	ASTM A 240
13	Strainer Cap	Stainless Steel	-----
14	Plug	Carbon Steel	-----



Dimensions: (approximate) in millimetres:

Size	A	B	C	F	G	H	Wt. (Kg)
15 NB	130	120	110	75	100	65	5.50
20 NB	130	120	150	93	117	65	6.25
25 NB	180	165	170	132	127	85	12.25

Installation:

GEN TOL.±3.0

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.

How to specify:

1-15 NB HM 34/6 SPIRAX Cast Steel steam trap with screwed BSPT connections, IBR.

Spare Parts:

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

Available Spares:

Valve and Seat Assembly A, B, C (2off) D
Strainer Screen & Gasket (Pkt. of 2) E & F

How to Order:

Always order spares by using the description given in the column headed Available Spares and stating the size and series of the trap. For Codes Ref. User Manual.

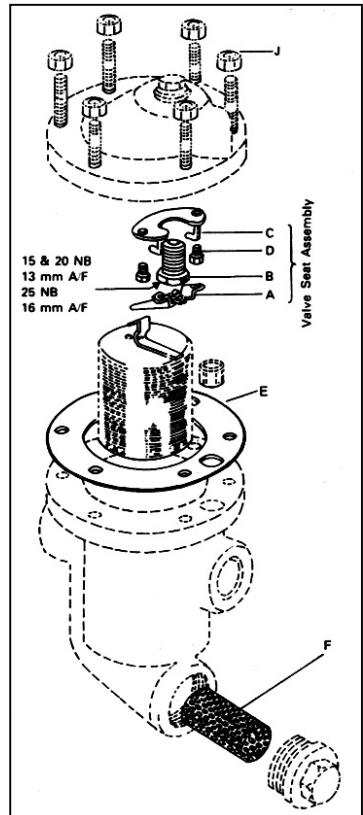
Example: 1 - Valve and Seat Assembly for 15 NB SPIRAX Steam Trap HM 34/7.

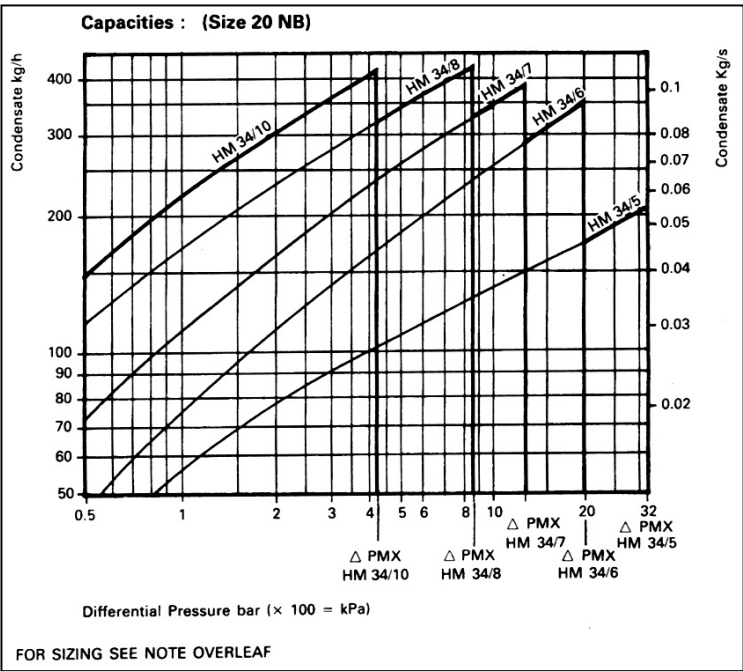
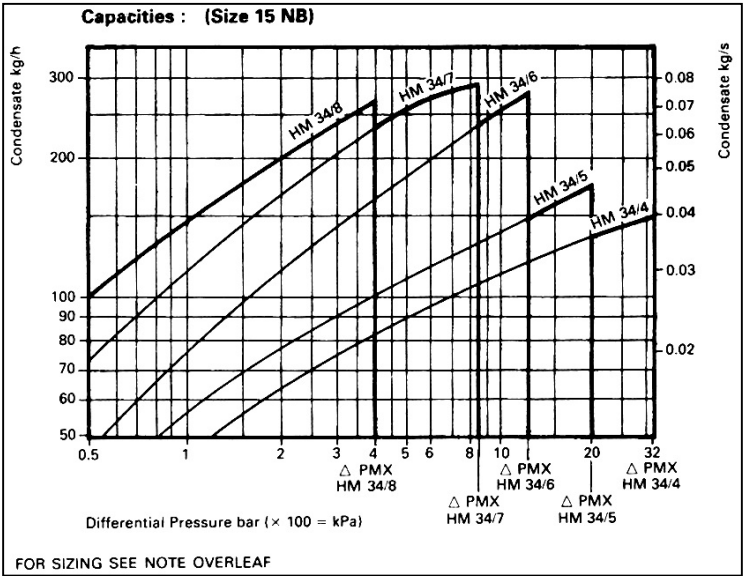
How to Fit Valve and Seat Assembly:

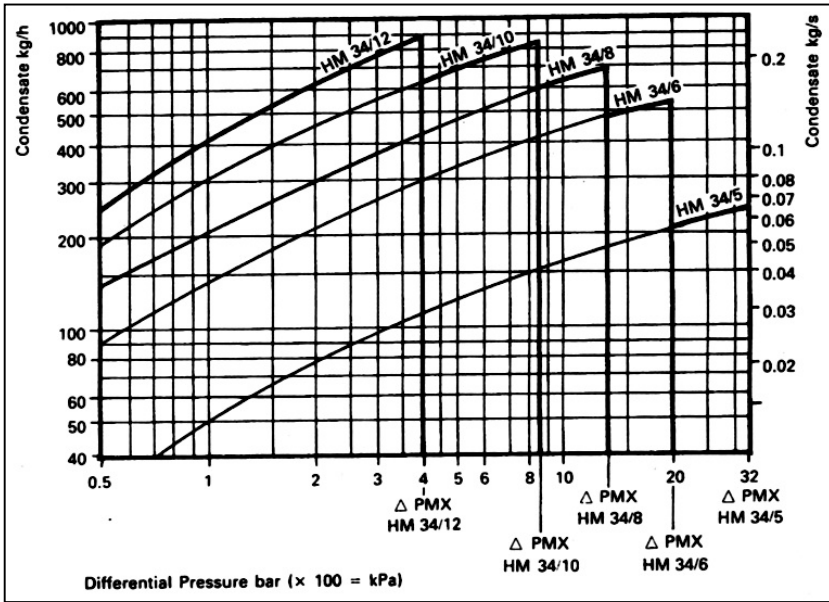
Isolate trap, remove cover by undoing cover nuts. Unhook the bucket from the valve lever A. Remove the valve seat B. Remove the valve guide plate C by undoing the two screws D. Screw in new valve seat, using a little jointing paste on the threads and making sure the joint faces are clean. Fix new valve guide plate in position by new screws which are supplied, hook new Valve lever over pins on valve guide plate and centralise valve to the orifice and tighten screws.

Recommended tightening torques:

Seat B	15 & 20NB	23 - 27 Nm
	25 NB	80 - 88 Nm
Studs & Nuts J	15 & 20NB	25 - 28 Nm
	25 NB	85 - 95 Nm
Strainer Cap	15 & 20NB	90 - 100 Nm
	25 NB	125 - 145 Nm



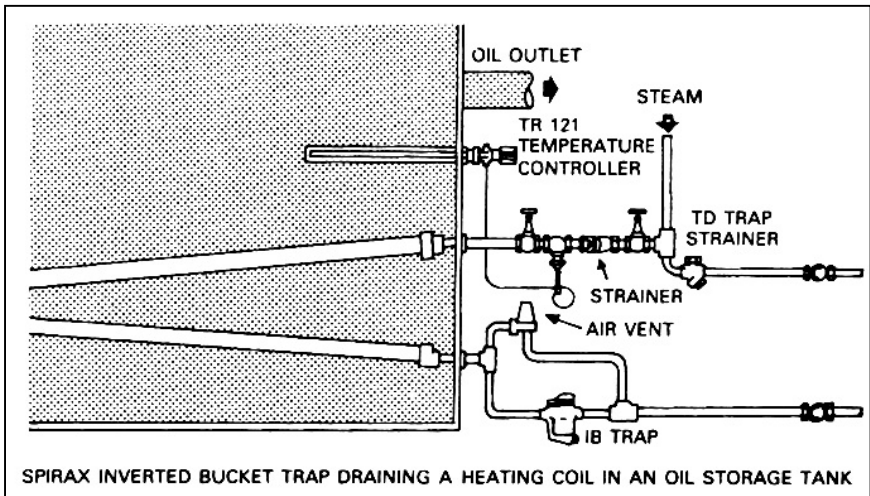




Note:

Traps should be selected for the most appropriate working pressure differential and not on the basis of load e.g. 25 NB HM 34, 80 Kg/h at 7 bar differential should be handled by HM 34/10 and not HM 34/5.

Typical Application:



Thermodynamic Steam Trap TD3S

Description :

Thermodynamic steam trap flange compatible with in-built strainer and full stainless steel construction, best suited for header and mainline drains and drip legs. TD-3S has been specifically designed keeping in mind flanged installations of Steam Traps on mainline & header drain traps in the most compact manner with least number of welded joints, avoiding space constraints & possibility of leakage.

Sizes and Pipe Connections :

15 NB and 20 NB

Note :

1. ASA-150 & 300 compatible
2. Available with IBR certificate.

Limiting Conditions

PMO : Max. Operating Pressure42 bar g

TMO : Max. Operating Temperature427 °C

Hydraulic test pressure84 bar g

PMOB-Max. operating back pressure on outlet should not exceed 80 % of inlet pressure.

Minimum inlet pressure for

satisfactory operation0.25 bar g

Material :

Sr. No.	Description	Mat.	Standard
1.	Body	St. Steel	ASTM A 743 Gr.-CA 40
2.	Cap	St. Steel	ASTM A 743 Gr.-CA 40
3.	Disc	St. Steel	ASTM A 743 Gr.-CA 40
4.	Strainer Screen	St. Steel	ASTM A 240 Type 304
5.	Strainer Cap	St. Steel	ASTM A 743 Gr.-CA 40
6.	Isotub	St. Steel	ASTMA 240 Type 304

Optional extras :

ISOTUB - An insulating cover (part no. 6) to prevent the trap being unduly influenced by excessive heat loss such as when subjected to low outside temperatures, wind, rain etc.

Safety Information :

Pressure :

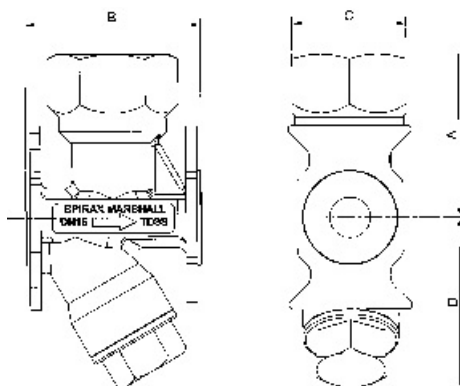
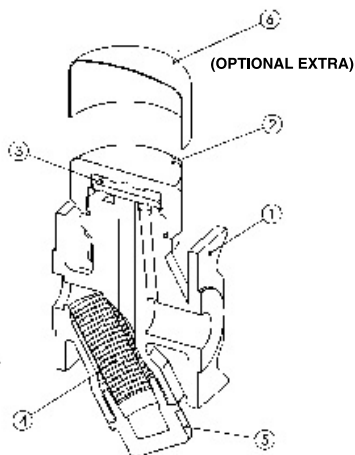
Before attempting any maintenance of Trap, consider what is or may have been in the pipeline. Ensure that any pressure is isolated upstream of the trap and safely vented to atmospheric pressure before attempting to maintain the trap. Do not assume that the system is depressurised even when a pressure gauge indicates zero.

Temperature

Allow time for temperature to normalise after isolation to avoid the danger of burns and consider whether protective clothing (including safety glasses) is required.

Installation :

Preferably on horizontal pipe - can be fitted in other positions if unavoidable.



Dimensions : (approx. in mm)

SIZE	A	B	C	D
15 NB	60.5	65	42	63
20 NB	65.5	75	42	63