

FMBT54

Forbes Marshall Bucket Type Steam Trap

Description

Forbes Marshall FMBT54 Inverted Bucket Steam Trap is designed for vertical installation. Trap is maintainable because of bolted cover & provided with all stainless steel internals for wear & corrosion resistance.

Size and Pipe Connections

DN40 & DN50

Flanged to Class 150 & 300

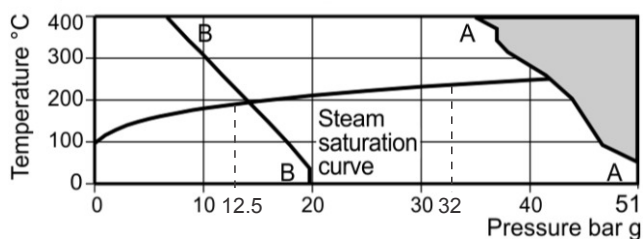
Available with IBR Certificate on request

Limiting Conditions

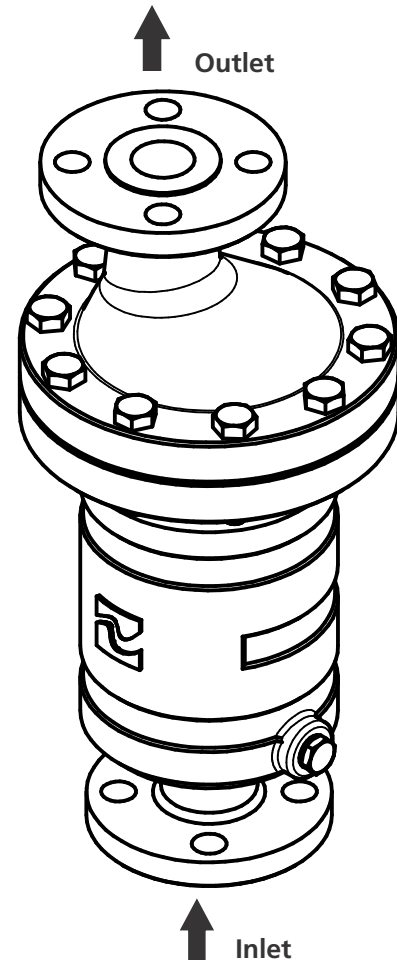
Body Design Conditions	ASME Class 150
PMA - Maximum Allowable Pressure	19.6 bar g @ 38°C
TMA - Maximum Allowable Temperature	400°C @ 6.5 bar g
Minimum Operating Temperature	0 °C
Cold Hydraulic Test Pressure	30 bar g

Body Design Conditions	ASME Class 300
PMA - Maximum Allowable Pressure	51 bar g @ 38°C
TMA - Maximum Allowable Temperature	400°C @ 34 bar g
Minimum Operating Temperature	0 °C
Cold Hydraulic Test Pressure	76.5 barg

Operating Range



The product must not be used in this region.
A-A Class 300 B-B Class 150

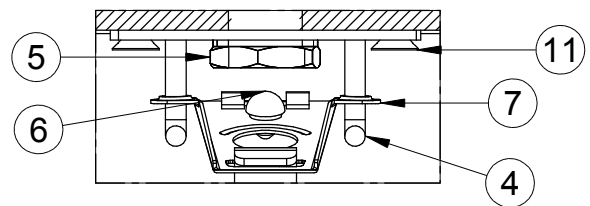
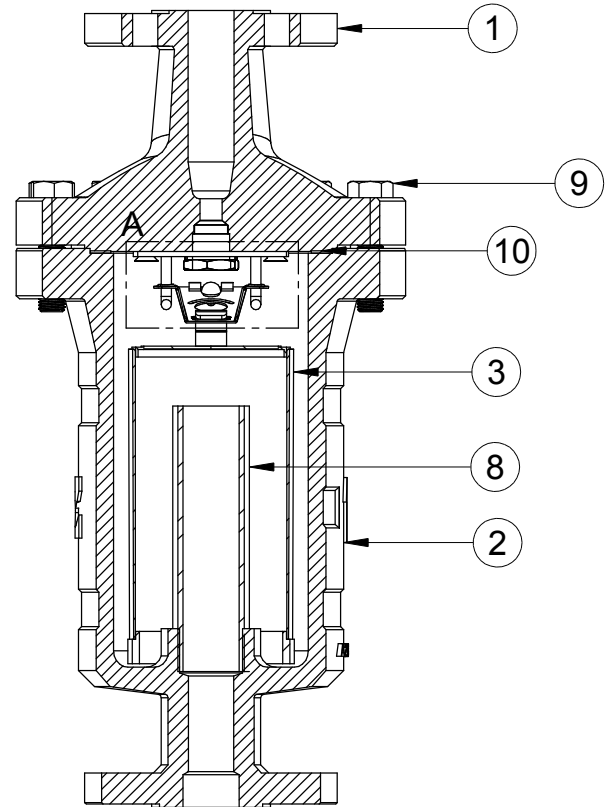
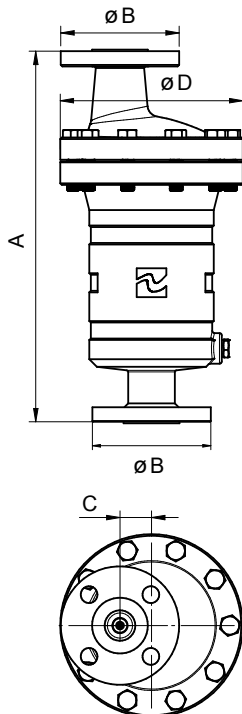


How to order

Forbes Marshall DN50 FMBT54-50/17 inverted bucket steam trap with flanged end as per ASME B16.5, Class 300, IBR

Material

Sr.No.	Part	Material
1	Cover	ASTM A216 Gr. WCB
2	Body	ASTM A216 Gr. WCB
3	Bucket	ASTM A216 Gr. WCB
4	Plate Assembly	Stainless Steel
5	Valve Seat	AISI 431
6	Valve	AISI 431
7	Lever Assembly	Stainless Steel
8	Internal Tube	ASTM A213 Gr. 304
9	Hex Bolt	ASTM A193 Gr. B7
10	Gasket	SS Reinforced Graphite
11	Screws	Stainless Steel



DETAIL A

How to order Spares

Order the spares as per the code no. specified in installation & maintenance manual.

Dimensions

Size	Flange	A (mm)	ØB (mm)	C (mm)	ØD (mm)	Weight Approx. (Kg)
DN40	Class 150	481	125	41	239	43
	Class 300	487	155			
DN50	Class 150	557	150	52	283	65
	Class 300	563	165			

Available Spares

Item Description	Item No.
Valve and Seat Assembly.	4,5,6,7,11
Bucket	3
Cover Gasket (Packet of 3)	10

Installation

FMBT54 trap must be installed vertically so that bucket is rising & falling vertically.

The trap inlet should be from the bottom side with trap installed below the drain point so that a water seal can be maintained at the open end of the bucket

Recommended Tightening Torque

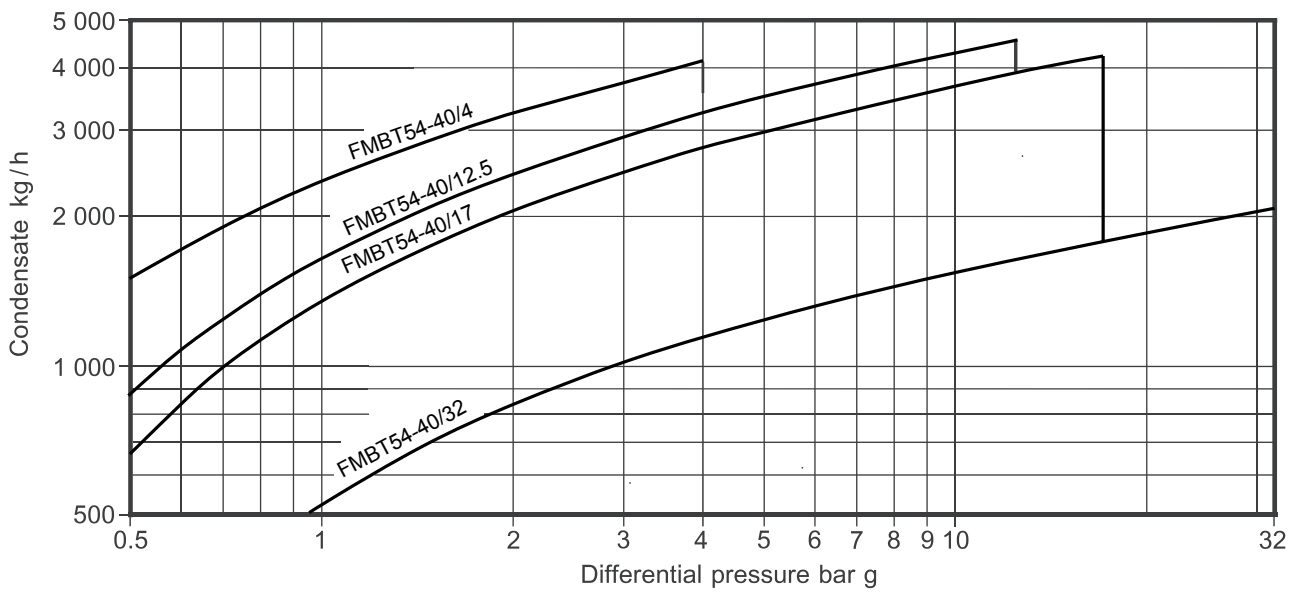
Item No.	Size	Part	Torque (N-m)
9,10	40NB	M16x2x70	80-85
	50NB	M16x2x80	85-90
12	40NB	M6x1x11	15-20
	50NB	M8x1.5x13	20-25
5	40NB	1 1/4"	175-190
	50NB	1 1/2"	270-300

Differential pressure for FMBT54

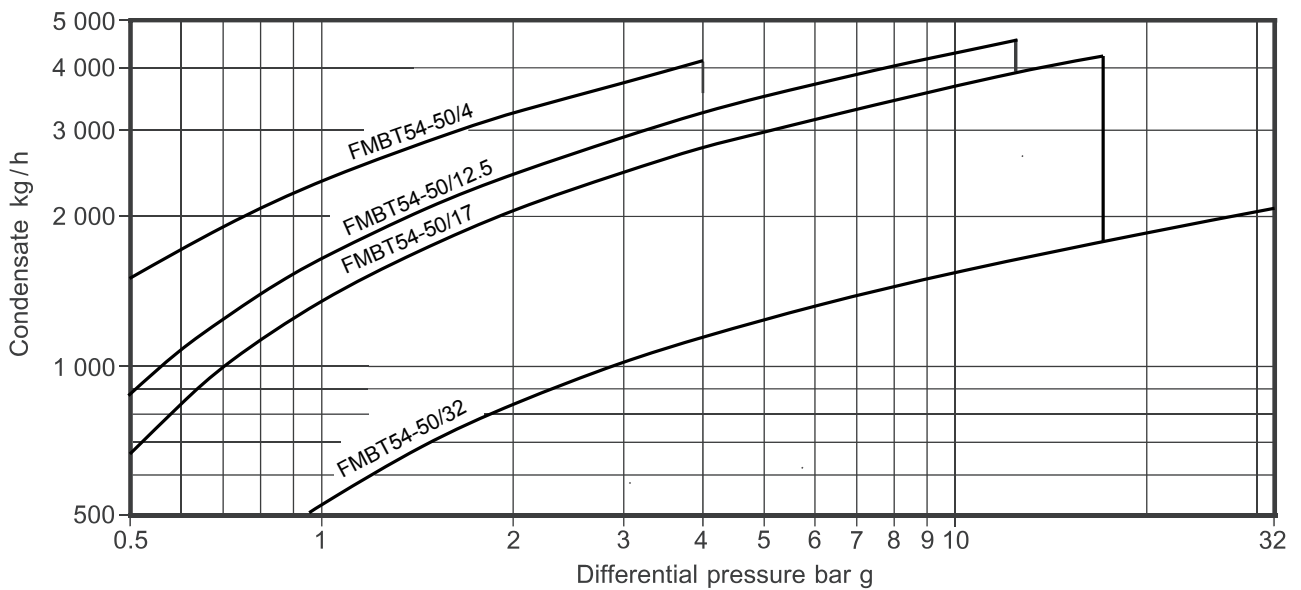
	DN40		DN50	
Δ P _{MAX} Maximum Differential Pressure	Class 150	Class 300	Class 150	Class 300
32 barg	-	FMBT54-40/32	-	FMBT54-50/32
17 barg	-	FMBT54-40/17	-	FMBT54-50/17
12.5 barg	FMBT54-40/12.5	FMBT54-40/12.5	FMBT54-50/12.5	FMBT54-50/12.5
4 barg	FMBT54-40/4	FMBT54-40/4	FMBT54-50/4	FMBT54-50/4

Capacity charts

DN40



DN50





www.forbesmarshall.com

Forbes Marshall Arca

Codel International

Krohne Marshall

Forbes Vyncke

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