

FMTLT61/FMAV61

Forbes Marshall Angled Tracer Line Trap/ Forbes Marshall Angled Air Vent

Description

The Forbes Marshall Angled Tracer Line Trap, FMTLT61, is an angled maintainable balanced pressure steam trap manufactured in stainless steel. It is corrosion resistant and easily maintainable.

Sizes and Pipe Connections

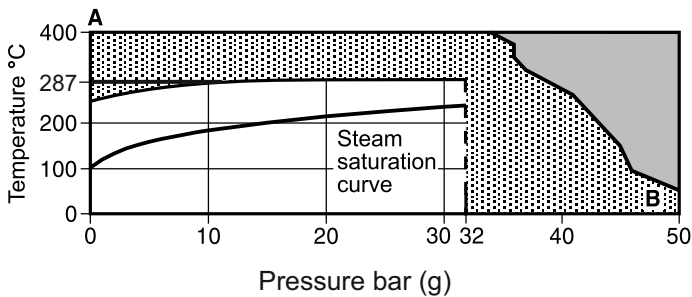
DN 15 and DN 20



Screwed BSPT / NPT / BSP

Limiting Conditions

PMA Max allowable pressure	50 bar g @ 50 °C
TMA Max allowable temperature	400 °C @ 35 bar g
Minimum operating temperature	0 °C
Max. cold hydraulic test pressure	48 bar g
PMO Max operating pressure	32 bar g @ 250 °C
TMO Max operating temperature	250 °C @ 32 bar g

Operating Range



 The product must not be used in this region
 The product should not be used in this region or beyond its operating range as damage to the internals may occur.

A - B Screwed Ends

How to Order

Example: 1 No. DN15 Forbes Marshall Angled Tracer Line Trap, FMTLT61 with 'U' filling and screwed BSPT connections.

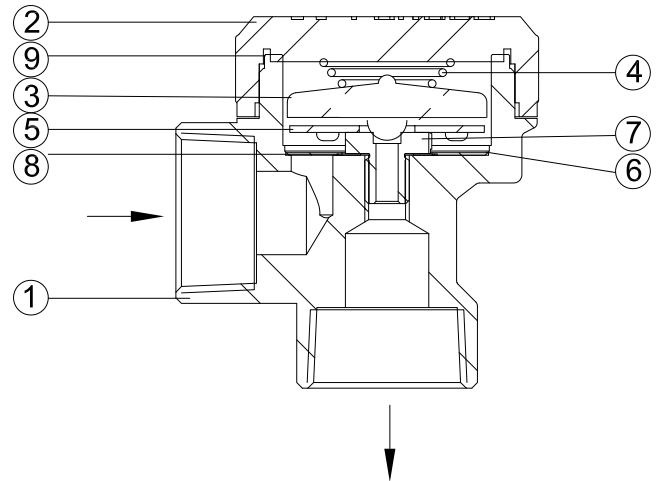


Fig.1

Materials

No	Part	Material	Standard
1	Body	Austenitic Steel	ASTM A 351 CF8M
2	Cap	Austenitic Steel	ASTM A 351 CF8M
3	Thermopod	Stainless Steel	-
4	Spring	Stainless Steel	ASTM A 276 SS302
5	Spacer Plate	Stainless Steel	ASTM A 276 SS 304
6	Strainer Screen 0.8 mm perforations	Stainless Steel	ASTM A 240 SS 304
7	Seat	Stainless Steel	ASTM A 276 SS431
8	Seat Gasket	Stainless Steel	ASTM A 240 SS304
9	Body Gasket	Exfoliated Graphite	-

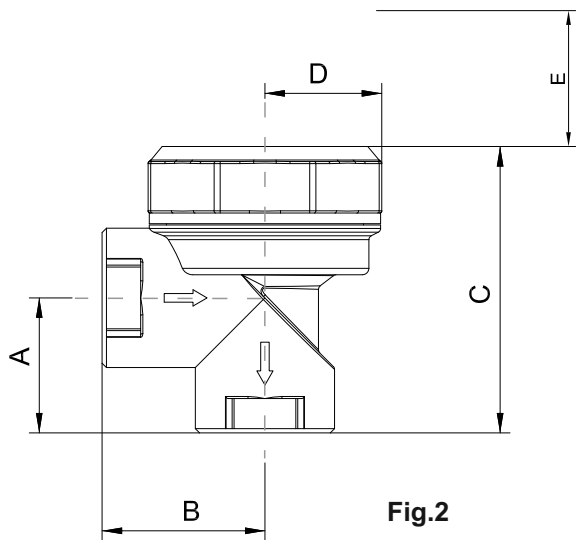


Fig.2

Dimensions (approx.) in mm

SIZE DN	A	B	C	D	E	Wt. (kg.)
DN 15	31.5	38	67	29	50	0.6
DN 20	31.5	38	67	29	50	0.6

Thermopod Filling for FMTLT61

As a standard, the trap is supplied with filling “U”, which will operate approximately 24°C below steam saturation temperature.

As an optional alternative the trap can be supplied with filling “C” which will operate approximately 6°C below steam saturation temperature or filling “T” which will operate approximately 12°C below steam saturation temperature.

Note: If the alternative thermopod is required this must be clearly stated on the order e.g. thermopod to have “C” or “U”

Thermopod filling for FMAV61 is “C” filling 6°C below steam saturation temperature.

Maintenance Notes

Temperature

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

Please refer product user manuals for detailed safety information.

Caution

The body / cover gasket contains a thin stainless steel support ring, which may cause physical injury if it is not handled and disposed carefully.

Installation of FMTLT61 (Ref. Fig. 3)

The trap is designed for installation with the thermopod in a horizontal line as the inlet and outlet at the bottom. The trap should be preceded by a short drip leg. Suitable isolation valves must be installed to allow for safe maintenance and trap replacement. Remove all protective caps prior to installation. Open isolation valves slowly until normal operating conditions area achieved. Check for leaks and correct operation.

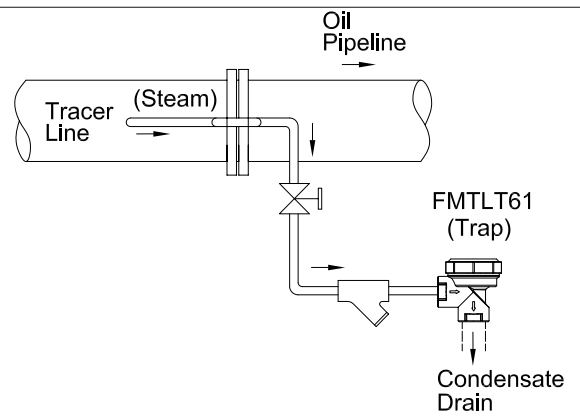


Fig. 3

Installation of FMAV61 (Ref. Fig. 4)

1. FMTLT61 should be installed in uppermost part of system where air gets collected.
2. FMAV61 is designed for installation with thermopod in horizontal position.
3. For optimum performance FMTLT61 can be fitted on Air bottles which provide collecting space for Air, and allows temperature gradient from the steam space to an air vent.

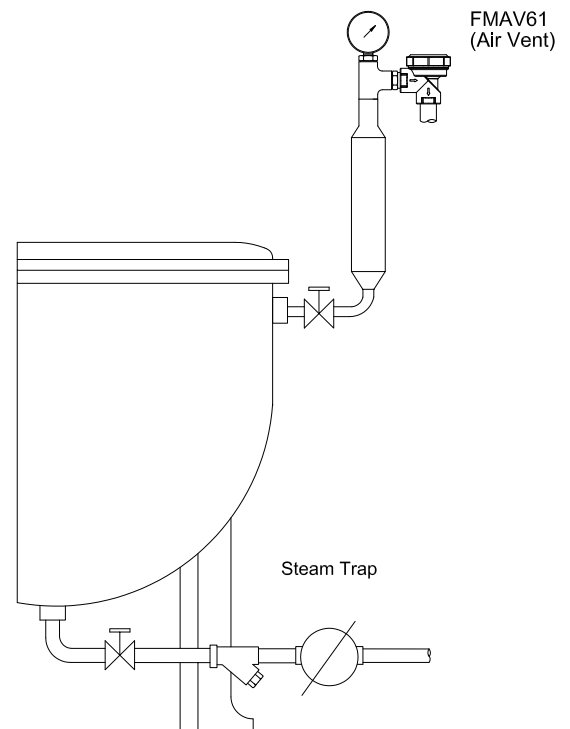
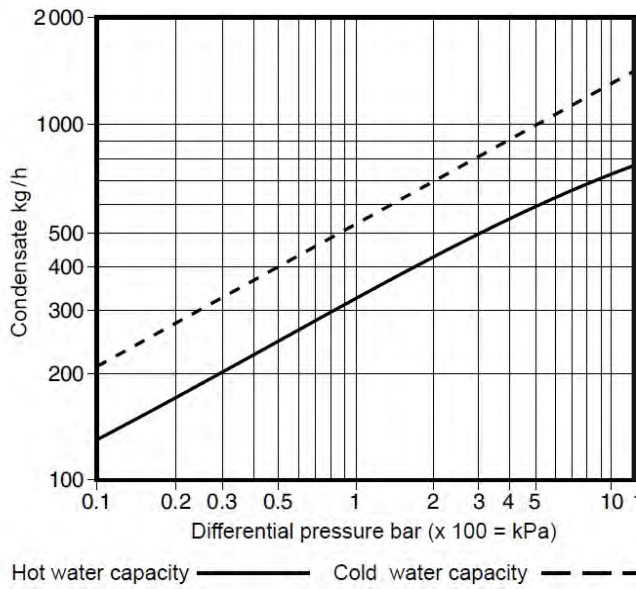


Fig. 4

Recommended Tightening Torques

Size (DN)	Or mm	Nm
15	54.5	90-100
20	54.5	90-100

Capacity Chart (FMTLT61)



Available Spares

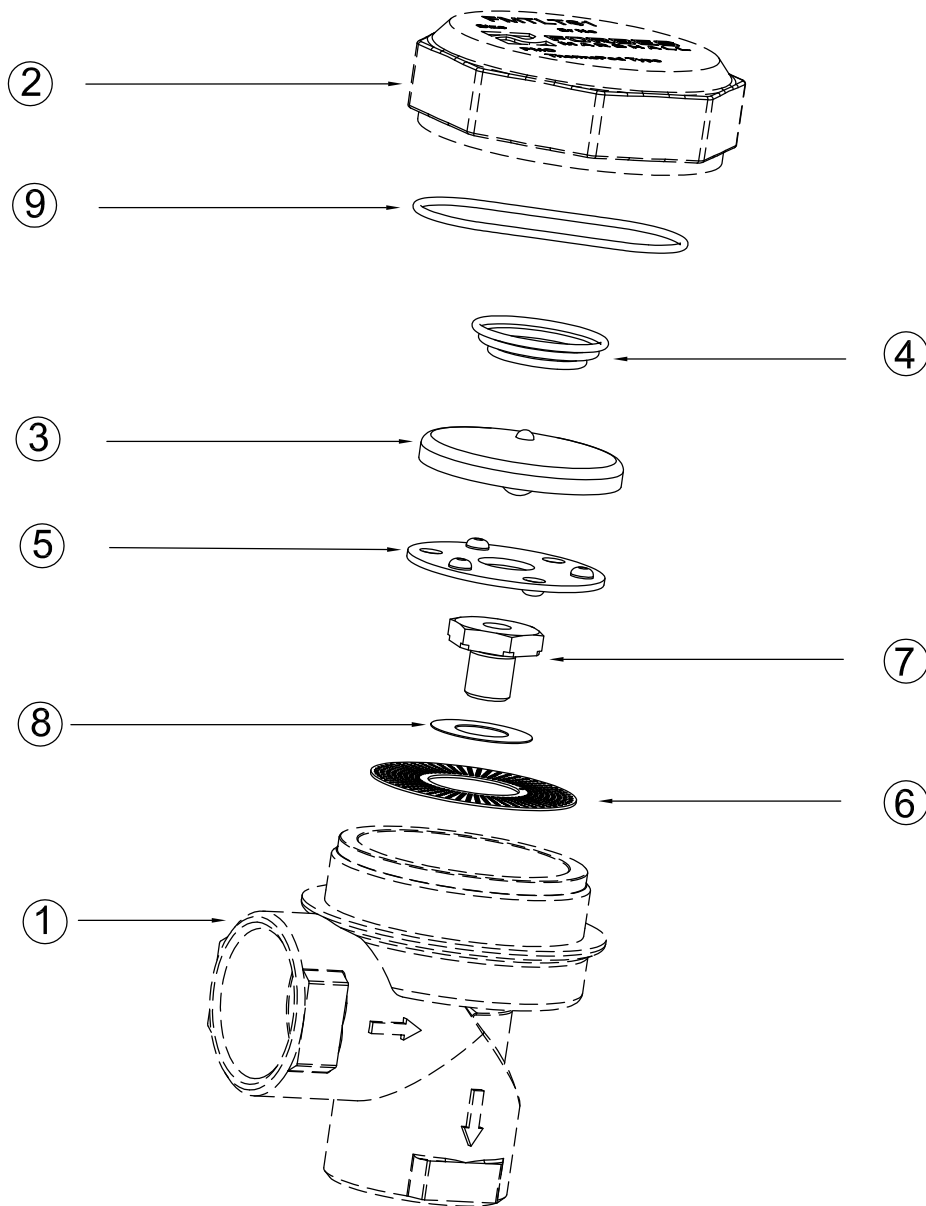
The spare parts available are shown in heavy outline. Parts drawn in broken line are not supplied as spares.

Thermopod and seat	"U"fill	3,7
Assembly set (state thermopod filling)	"T"fill / "C"fill	
Strainer Screen and gasket kit		6,8,9
Spring		4
Seat Gasket, Body Gasket kit		8,9

How to Order Spares

Always order spares by using the description given above and stating the size and type of steam trap.

Example: 1 No. Thermopod and seat assembly set for DN 15 Forbes Marshall Angled Tracer Line Trap, FMTLT61, "U" Fill





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