DESIGN FEATURES

- Compact
- Only one moving part
- Hardening of the disc & seat ensures long life
- · Provided with an inbuilt strainer
- Maximum 250 bar / 550°C
- Available in single / three port design
- · Provided with an optional blow down valve
- · Available in forged steel body with SS hardened disc
- Also available in stainless steel body with SS hardened disc

APPLICATIONS

Thermodynamic steam traps are ideal for removal of condensate from steam main lines, moisture separators and are also recommended on critical steam tracing applications.

Thermodynamic steam traps find applications in various process industries such as -

Chemical Fertilizers Dairy Hospitals Paper Petrochemicals Refineries Hotels Solvent Extractions Textiles Sugar Food Industries Brewerv Pharma Tyre & Rubber



Energy Environment Solutions for Sustainable Growth

COMPARISON WITH COMPETITOR

	Thermax	Competitor	Benefit to users
	Higher top cap thickness (6 mm) ensures strongness	Lower cover thickness may result into cracking	This ensures no damage during trap repair
	A/F in top cap and in strainer cap are same	A/F in top cap and in strainer cap are different	Single spanner will serve the purpose of opening the trap while online
	Easy and safe condensate blowdown while the trap is online	Unsafe blowdown flushing while trap is online	Safety in operation

Product of RIFOX GmbH - A THERMAX group company



notice. The photographs used in the brochure are indicative and may not match the actual plant.

Why Steam Traps ?

tracing applications.



A Steam trap is an automatic valve which closes to trap steam & opens to discharge condensate, air & non-condensable gases from the steam system. Thermodynamic steam traps are ideal for removal of condensate from steam main lines, moisture separators and are also recommended on critical steam

TECHNICAL SPECIFICATIONS

				1	
Models	RD-321	RD-323	RD-329	RD-331	RD-361
Exploded View					
Materials	NoComponentMa1BodySt.2DiscSt.3Top CapSt.4StrainerSt.5Strainer CapSt.6Blow Down Valve (Optional)St.	IterialSpecificationSteelASTM A743 Gr.CA40SteelASTM A276 Type 420SteelASTM A743 Gr.CA40SteelASTM A240 Type 304SteelASTM A743 Gr.CA40SteelASTM A240 Type 304SteelASTM A240 Type 304	No. Component Material Specification 1 Body Forged Steel ASTM A105 2 Disc St. Steel ASTM A276 Type 420 3 Seat Tool Steel ASTM A681 Gr.D2 4 Strainer St. Steel ASTM A420 Type 304 5 Strainer Cap Forged Steel ASTM A105 6 Top Cap St. Steel ASTM A582 Tp 416 7,8,9,10 Gasket SS + GPH ASTM A276 Tp 304+Graphite	No. Component Material Specification 01 Body Alloy Steel ASTM A217 Gr.WC6 02 Vacuum Brazed Seati Tool Steel ASTM A217 Gr.WC6 03 Body Gasket St. Steel - Graphite SXTM A240 To.304 + Graphite 04 Disc Tool Steel ASTM A217 Gr.WC6 05 Cover Alloy Steel ASTM A217 Gr.WC6 06 Stud St. Steel ASTM A193 Gr.B16 07 Hex. Nut St. Steel ASTM A193 Gr.B16 08 Insulating Cap St. Steel ASTM A240 Tp.304 09 Strainer St. Steel ASTM A240 Tp.304 10 Strainer Gasket St. Steel ASTM A240 Tp.304 11 Strainer cap Alloy Steel ASTM A240 Tp.304 + Graphite	No. Component Material Specification 01 Body Alloy Steel ASTM A182 Gr.F22 02 Vacuum Brazed Seat Tool Steel ASTM A681 Gr.D2 03 Disc Tool Steel ASTM A681 Gr.D2 04 Body Gasket St. Steel + Graphite ASTM A767 Tp. 304 + Graphite 05 Top cover Alloy Steel ASTM A182 Gr.F22 06 Stud St. Steel ASTM A193 Gr.B16 07 Hex. Nut St. Steel ASTM A193 Gr.F4 08 Sintered Strainer St. Steel SS 304 09 Retainer St. Steel ASTM A276 Tp. 304 + Graphite 10 Strainer Gasket St. Steel + Graphite ASTM A276 Tp. 304 + Graphite 11 Strainer cover Alloy Steel ASTM A182 Gr.F22
Capacity Chart	Differential pressure (rigion)	UID DN20 (2/4*) UID DN20 (2/4*) UID DN20 (2/4*) UID DN25 (1/2*) UID DN15 (1/2*) UID DN	Division of the second	(HOM) HOM (HOM)	$\begin{array}{c} 500\\ 400\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $
Dimensions & Weight				VITHORAWAL DISTANCE P USTANCE P VITHORAWAL P VITHORAWAL P	SOCKET WELD
Body Design Conditions	Size A B DN 15 (½") 52 54 DN 20 (¾") 52 54 DN 25 (1") 61 73	CDWeight78451.278451.295451.5	SizeABCDWeightDN 15 (½")5469150583.5DN 20 (¾")5469150584.5DN 25 (1")5469160585.2	Size A B C D E F Weight DN 15 (½") 82 50 92 70 50 20 2.2 DN 20 (¾") 82 50 92 70 50 20 2.2 DN 25 (1") 82 50 100 70 50 20 2.2	Size A B C D1 D2 E F Weight M <td< th=""></td<>
Maximum Operating Pressure - PMO (kg/cm²)					
Screwed End	55	55	55	35	-
Socket Weld End	55	55	55	67	250
Maximum Operating Temperature - TMO (°C)					
Screwed End	425	425	425	425	-
Socket Weld End	425	425	425	450	550
Hydraulic Test (kg/cm²)					
Screwed End	110	110	110	70	
Socket Weld End	110	110	110	134	500

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