

UNA-Special type 62B

Ball-Float Steam Traps

UNA-Special type 62B

PN 16, DN 100

Description

UNA-Special type 62B ball-float steam traps are used to remove condensate from steam.

Units with SIMPLEX control unit can also be used to discharge condensate from other gases or gas mixtures.

UNA-Special type 62B units are steam traps with a ball float and slide valve. As their operation is not dependent on back pressure, these steam traps are suitable for universal use.

The UNA-Special type 62B steam trap consists of a body with flange-mounted connector and a control unit. Different control units are available for the steam trap.

If the units are used outside their admissible pressure and temperature ratings, chemical and corrosive influences must be taken into consideration.

Fluids

The equipment is designed for the following fluids (in accordance with the EU Pressure Equipment Directive or Pressure Equipment (Safety) Regulations in the UK:

- Group 2 fluids

Chemical and corrosive influences must be taken into consideration.

Use in potentially explosive atmospheres

The equipment does not have its own potential source of ignition (as per ATEX Directive). Please pay attention to the following information:

Once installed, static electricity may arise between the equipment and the connected system.

If the equipment is used in potentially explosive atmospheres, the plant manufacturer or owner is responsible for discharging or preventing possible static charge.

If there is a possibility of fluid escaping, e.g. via actuating devices or leaks in threaded connections, the plant manufacturer or owner must take this into consideration when classifying potentially explosive zones.

Function

A ball float opens the orifice based on the fill level. This regulates the drainage rate. With the orifice opened to maximum, the drainage rate depends on the diameter of the orifice.

You can lift the ball float manually using the float lifting lever.

A manual vent valve is available, which allows you to vent the pipe and equipment manually.

Orifice and differential pressure

Orifice (A0)	Differential pressure ΔPMX [bar]
2	2
3.5	3.5
5	5
10	10
16	16

Connections

- Flange EN 1092-1 B1 PN 16

- (Threaded flange as per ASME B 16.5 CL 125 RF)

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Materials

Component	EN	ASTM*)
Body (8)	1.0425	A 516 Grade 60
Connector (1)	1.0460	A 105
Screws	Galvanised steel	Galvanised steel
Ball float (13)	1.4301	A182-F304
Slide valve (14)	1.4021	A276-420
Seat (15)	1.4034	–
Manual vent valve (6)	Stainless steel	
Sealing plug (7)	Steel	
Float lifting lever (11)	Stainless steel/graphite	
Gasket (12)	Graphite CrNi	

*) ASTM material comparable to the EN material. Pay attention to differences from EN in terms of chemical and physical properties.

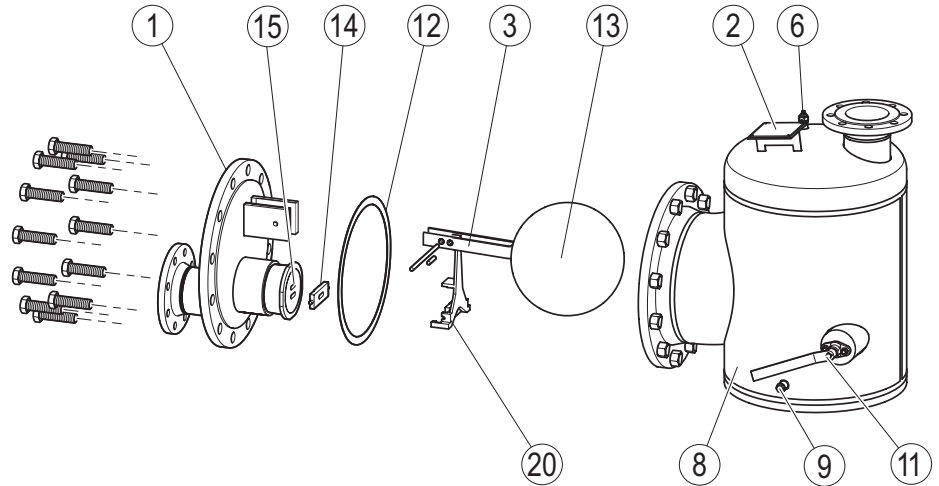
Pressure and temperature ratings

Connection		PN 16 flange					
Pressure ¹⁾ p	[barg]	16	13.7	13.3	12.4	11.3	10.2
Temperature ¹⁾ T	[°C]	–10 / 20	100	150	200	250	300
Max. admissible differential pressure ΔPMX	[bar] [psi]	2 (AO 2), 3,5 (AO 3,5), 5 (AO 5), 10 (AO 10), 16 (AO 16)					

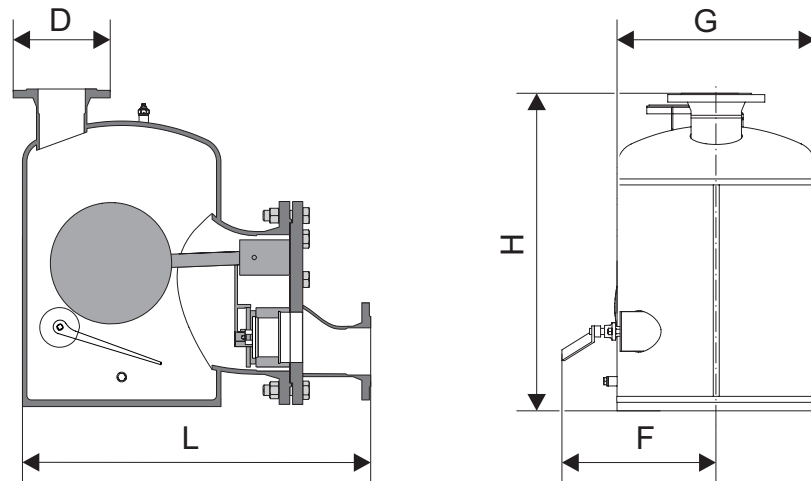
¹⁾ Ratings for strength of body/cover to EN 1092-1

Equipment overview

No.	Designation
1	Connector
2	Name plate
3	SIMPLEX control unit
6	Manual vent valve
8	Body
9	Drain plug
11	Float lifting lever
12	Gasket
13	Ball float
14	Slide valve
15	Seat (orifice) (AO)
20	Slide rod



Dimensions and weights



DN		Dimensions [mm]					No. of holes	Weight [kg]	Service dimensions [mm]
[mm]	[inches]	L	H	G	F	D			
100	4	810	720	455	275	220	8	235	700

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Flow charts

The chart shows the maximum flowrates of hot condensate through the orifices (AO).

The differential pressure (service pressure) influences the flowrates.

It is the result of the pressure upstream of the steam trap minus the pressure downstream of the trap, and is dependent on the line routing, among other things.

If the condensate is lifted downstream of the steam trap, the differential pressure is reduced by 1 bar per 7 m of delivery head.

The maximum admissible differential pressure depends on the discharge cross section of the orifice and the density of the discharging fluid.

The flow chart shows the maximum flowrate of hot condensate.

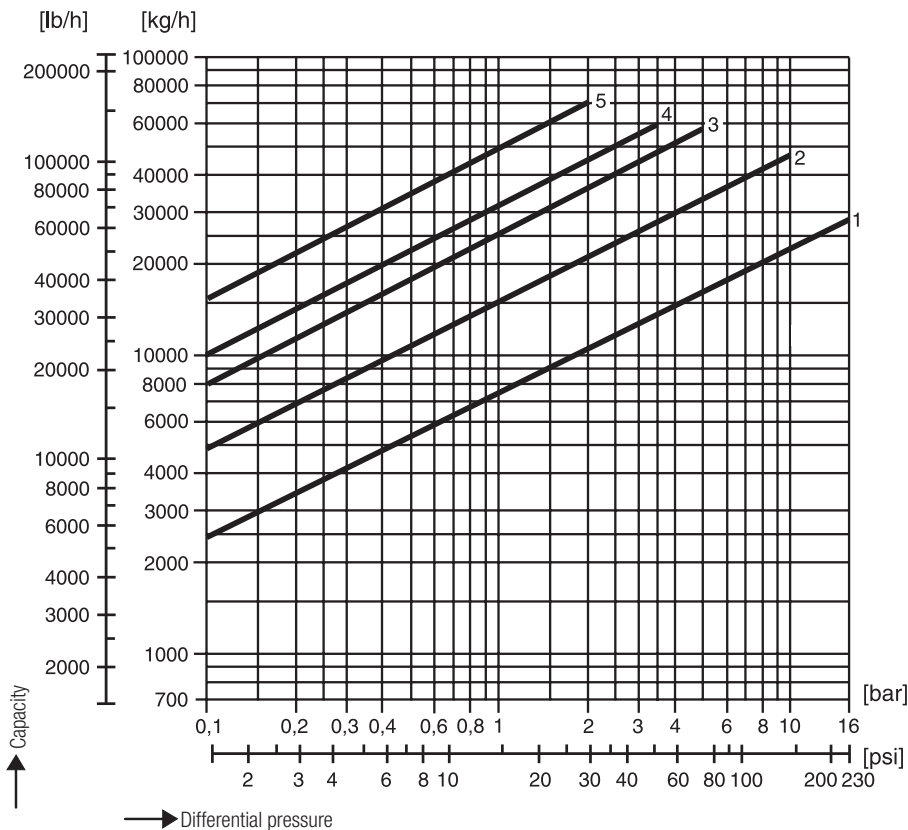
Acceptance inspections

An inspection certificate to EN 10204 can be provided as verification of material and construction tests. All inspection requirements must be included in the request for a quote or in the order. Once a product has been delivered, inspection certificates can no longer be issued. The standard test scope and cost of the above-mentioned inspection certificates can be found in our price list "Test and Inspection Charges for Standard Equipment". If you require a different inspection scope, please request a separate quote.

Standards and directives

You can find details on the conformity of the equipment and the applicable standards and directives in the Declaration of Conformity and associated certificates or approvals.

Flow charts



Available orifices		
1	DN 100	A0 16
2	DN 100	A0 10
3	DN 100	A0 5
4	DN 100	A0 3.5
5	DN 100	A0 2

Please note our general terms of business.

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