Float Trap UNA-SPECIAL
PN 25
DN 50 and 65 mm (2 and 2½")

Description

Float trap with slide-valve closing mechanism for all operating conditions, also for draining gas or compressed-air lines, and for the discharge of other cold condensates or distillates.

With Simplex control (without thermostatic element) and hand-vent valve, alternatively with Duplex control (thermostatic element for automatic air venting – only suitable for the discharge of steam condensate).

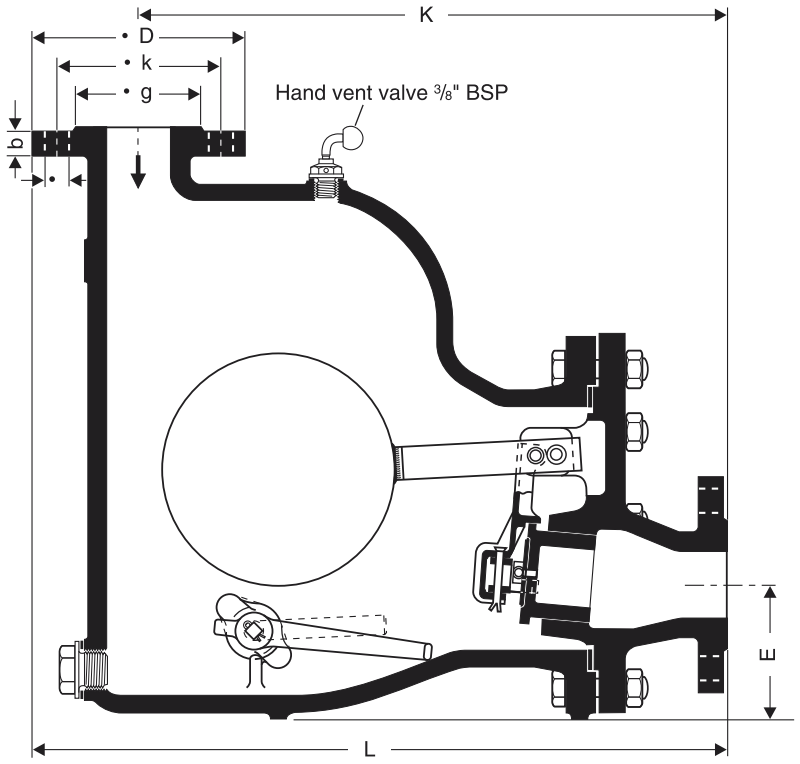
The slide valve is operated by the float as a function of the condensate level in the trap and in addition by the Duplex control (when fitted) as a function of the temperature. The condensate formed is immediately discharged. Within the operating range of the trap, condensate banking-up and live-steam loss are avoided.

Pressure/Temperature Rating				
PMA (Maximum allowable pressure)	[barg]	25	17	13
	[psig]	360	245	185
TMA (Maximum allowable temperature)	[°C]	120	300	400
	[°F]	248	572	752
D PMX (Maximum differential pressure) (**inlet** pressue minus **outlet** pressure)		22 bar (320 psi)		

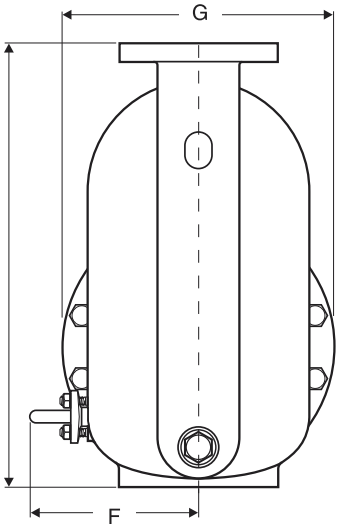
Materials	DIN reference	ASTM equivalent
Body and cover	GP 240 GH (1.0619)	A 216 WCB
Seat	X46 Cr 13 (1.4034)	SAE 51420 F
Slide valve	X20 Cr 13 (1.4021)	A 182 F 6
Ball float	X5 CrNi 1810 (1.4301)	A 182 F 304
Thermostatic element	Corrosion-resistent S.S. bimetal	

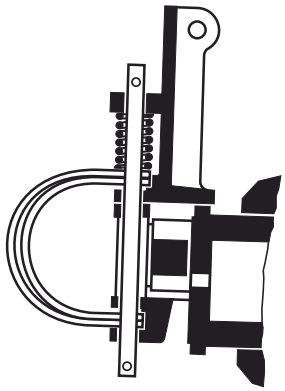
Connections

Flanges: DIN (BS 4504) PN 25



Simplex design *(with hand vent valve and float lifting lever)*





Duplex design *(with thermostat)*

Dimension and Weights

DN [mm]	DN [in]	Dimensions [mm] L	H	G	K	E	F	Flange dimensions [mm] D	k	l	b	g	Number of bolts	Approx. weight [kg]
50	2	527	445	290	445	100	185	165	125	18	20	102	4	68
65	2½	563	500	310	470	105	190	185	145	18	22	122	8	82
80	3	see data sheet UNA, PN 25												
100	4													

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Capacity Chart

The chart shows the maximum capacities of hot condensate for the range of orifices (O) and sizes available. The cold water capacities are: Capacity of hot condensate mulitplied by factor F.

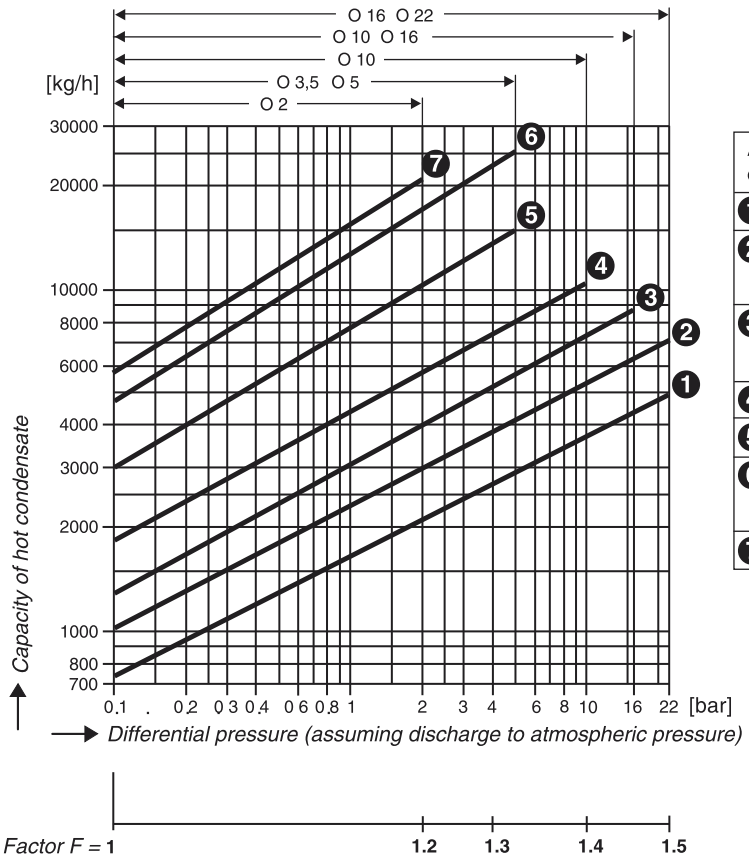
The capacities are dependent on the differential pressure (working pressure). The differential pressure is the difference betwen inlet and oulet pressures and depends among other things on the run of the pipeline. If the condensate downstream of the traps is lifted, the differential pressure (working pressure) is reduced by approximately 1 bar for 7 m (or 2 psi for 3 feet) in lift.

The maximum admissible differential pressure is dependent on the cross-sectional area of the orifice.

The standard design of the trap is available for a maximum differential pressure of 22 bar (320 psi).

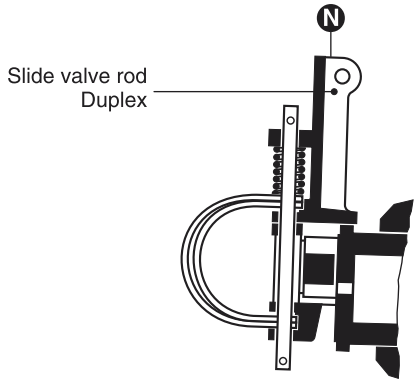
If, however, larger capacities are required, special orifices are available for differential pressures of:

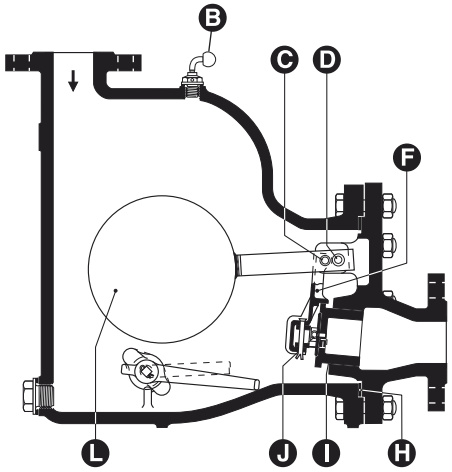
16 bar (230 psi) – for all valve sizes
10 bar (145 psi) – for all valve sizes
5 bar (70 psi) – for all valve sizes
3.5 bar (50 psi) – for valve size DN 50 mm (2")
2 bar (30 psi) – for valve size DN 65 mm (2½")



(Cold water capacity [kg/h] ö capacity of hot condensate x factor F)

Available orifices		
1	DN 50	O 22
2	DN 50	O 16
	DN 65	O 22
3	DN 50	O 10
	DN 65	O 16
4	DN 65	O 10
5	DN 50	O 5
6	DN 50	O 3.5
	DN 65	O 5
7	DN 65	O 2





When ordering please state:

Inlet pressure, outlet pressure, quantity of condensate to be discharged, design, size and desired orifice, position of the trap and details of application.

The following test certificates can be issued on request, at extra cost:
In accordance with EN 10204/2.2 and -3.1 B.

All inspection requirements have to be stated with the order. After supply of the equipment certification cannot be established. For tests and inspection charges please consult us.

Supply in accordance with our general terms of business.

Technical modifications reserved.

Spare Parts

Item Nº	Designation		Order Nº DN 50 mm	Order Nº DN 65 mm
I	Seat	O 2		210311
		O 3.5	210325	
		O 5	210324	210325
		O 10	210336	210337
		O 16	210351	210336
		O 22	208702	210351
J	Slide valve	O 2		210355
		O 3.5	210372	
		O 5	210371	210372
		O 10	210383	210384
		O 16	210395	210383
		O 22	209547	210395
C	Bolt		210463	210463
D	Bolt		210277	210281
L	Ball float		210452	210453
H	Cover gasket		221472	221423
N	Slide valve rod (Duplex) with thermostatic element		221690	221690
F	Slide valve rod (Simplex)		200840	200840
B	Vent valve (with gasket)		560058	560058