

Automatic Pump-trap Stations

UNA PK Station and UNA PK HK Station

Description

The GESTRA UNA PK Station and UNA PK HK Station are plug in systems specifically designed to remove condensate from plant under 'stall' conditions. The whole system is capable of handling capacities up to 2800 kg/h pumping and 9 000 kg/h trapping, depending on available differential pressure.

Each unit comes with a condensate receiver, motive supply drain trap and ancillaries.

Operated by steam the UNA PK Station and UNA PK HK Station meet a wide range of applications. The standard pump-trap is manufactured from SG iron, although electroless nickel plated (ENP) versions are available on request.

Standards

These products fully comply with the requirements of the Pressure Equipment Directive (PED) and carry the  mark.

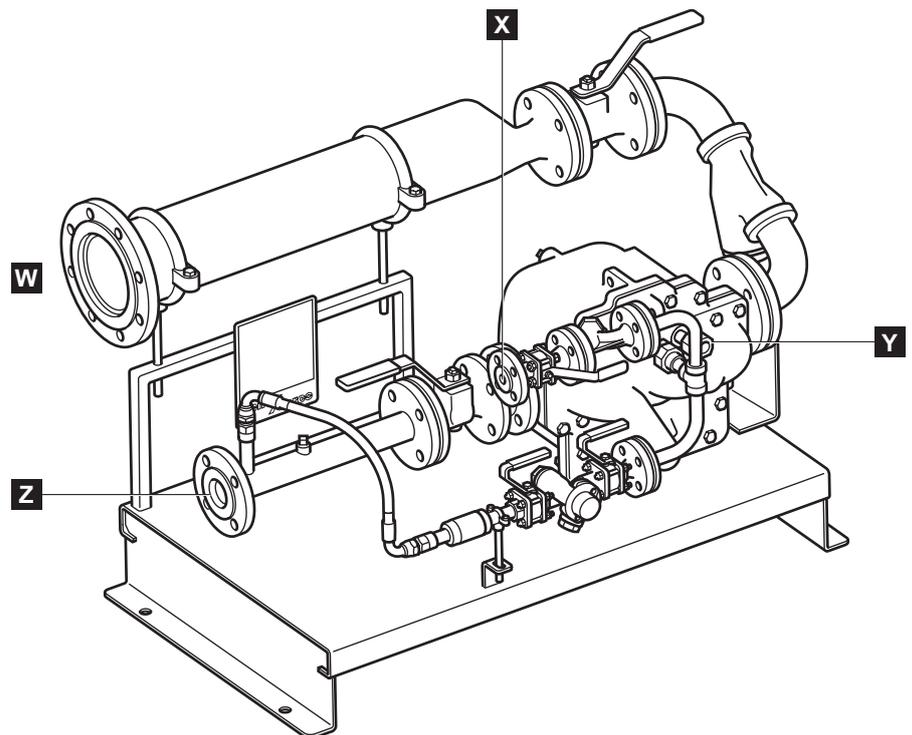
All welding is in accordance with ASME IX, BS EN 287/288, BS EN part 1-2004 and BS EN ISO 15614 part 1-2004.

Certification

These products are available with a Declaration of Conformity. Other certification is available for individual component parts if required, at extra cost.

Note: All certification/inspection requirements must be stated at the time of order placement.

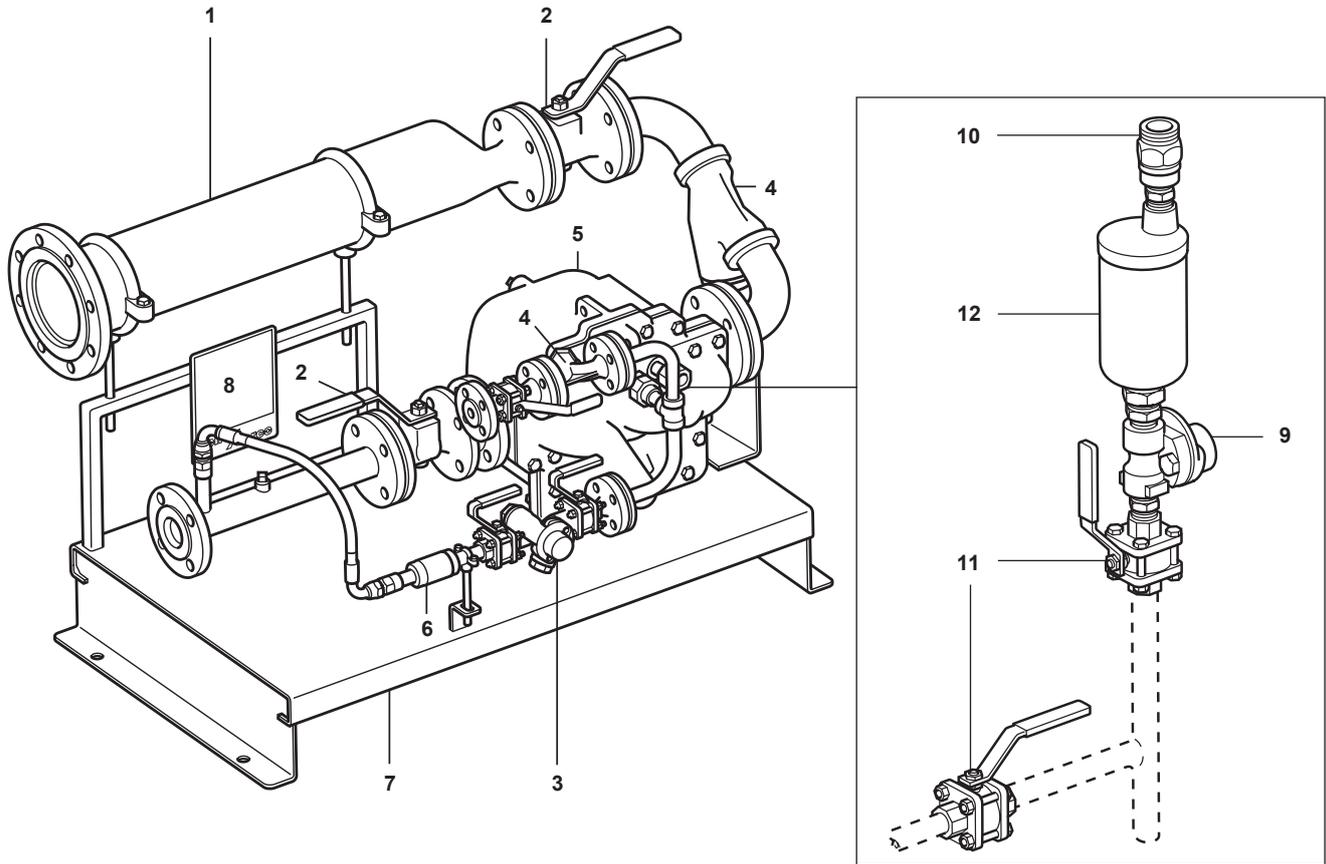
Sizes and pipe connections



Unit size		W Condensate inlet	X Motive supply	Y Exhaust/ balance line	Z Condensate outlet
UNA PK Station	DN100 x DN25 (4" x 1") PN16	DN100	DN15	DN15	DN25
UNA PK HK Station	DN125 x DN40 (5" x 1½") PN16	DN125	DN15	DN15	DN40

Note: ASME Flanged versions are available as special order (ETO).

Materials



* Items **9, 10, 11 and 12** are to be connected to the outlet of the system by the end user .

No.	Part			Material	
1	Receiver			Carbon steel	
2	Ball valves	DN20 to DN50	(¾" to 2")	Steel (PTFE seals)	
3	Trap set	DN15	(½")	Stainless steel (PTFE seals)	STS17.2
4	Strainer	DN15 to DN50	(½" to 2")	SG iron	
5	Pump - trap	DN40 x DN25 (UNA PK Station) DN50 x DN40 (UNA PK HK Station)		SG iron	
6	Diffuser			Stainless steel	
7	Base and supporting frame			Carbon steel	
8	Name - plate			Aluminium	
9*	Air vent			Stainless steel	PC10HP/UBP32
10*	Check valve			Stainless steel	
11*	Ball valve	DN15	(½")	Zinc plated carbon steel	
12*	Air eliminator			Austenitic stainless steel	AE50S

* **Please note:** Items **9, 10, 11** and **12** are included with the pump package as loose items. It is intended that the end user provides the pipework and connects these components correctly - see Section 3 'Installation' of the Installation and Maintenance Instructions supplied with the unit.

Limiting conditions

Unit design conditions	PN16
Maximum motive inlet pressure (steam)	13.8 bar g
Maximum operating pressure	13.8 bar g
Maximum backpressure	5 bar g
Maximum operating temperature	198 °C
Minimum operating temperature	0°C
Designed for a maximum cold hydraulic test pressure of:	24 bar g

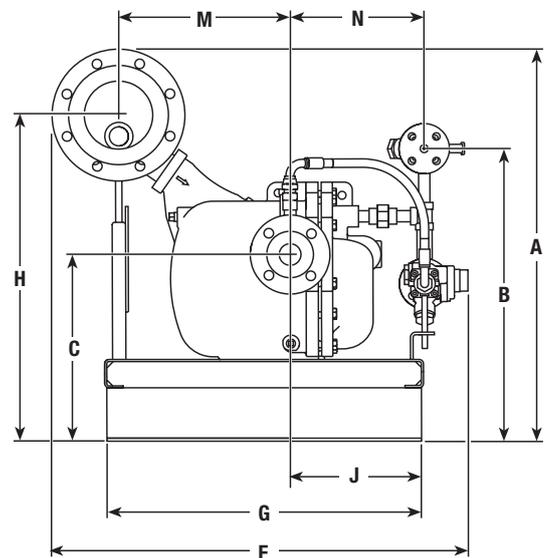
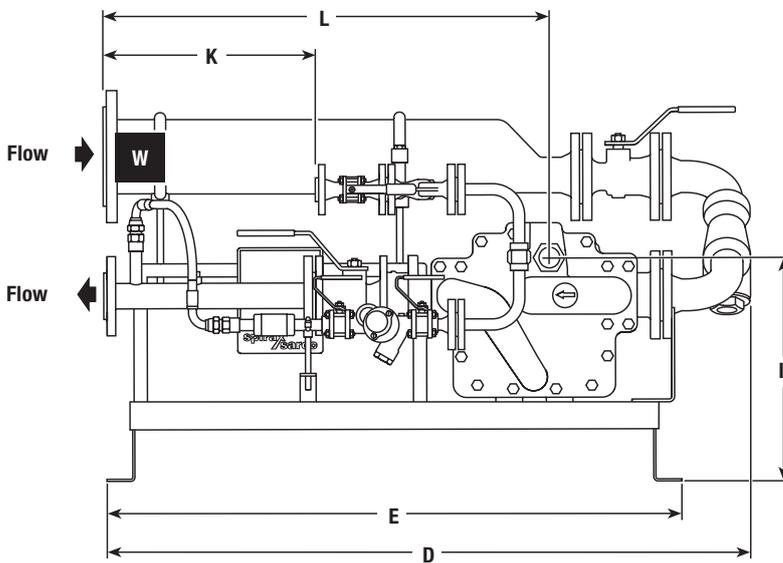
Note: For operating temperatures above or below those stated contact GESTRA.

Capacities

Sizing of the pump-trap is dependent on motive pressure, backpressure (lift, return system pressure and frictional losses) and process conditions. For accurate sizing for the application please contact GESTRA.

Pump-trap - Dimensions/weights (approximate) in mm and kg

Unit size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Weight
DN100 x DN25 (4" x 1")	657	528	353	1064	1081	723	600	547	400	285	320	755	282	244	170
DN125 x DN40 (5" x 1½")	743	553	353	1215	1081	787	600	618	425	250	400	833	322	253	220



Safety information, Installation and maintenance

For full details see the Installation and Maintenance Instructions supplied with the unit.
For full details of the individual component products, please contact GESTRA.

How to order example

1 off GESTRA DN100 x DN25 UNA PK Station Automatic Pump-trap station with flanged PN16 external connections.

Spare parts

Please contact GESTRA for availability of spare parts.

How to specify

GESTRA UNA PK Station and UNA PK HK Station Automatic Pump-trap Stations, operated by steam up to 13.8 bar g. The complete system shall be supplied with PED markings, with all welding in accordance with BS EN 287/288.

GESTRA AG

Münchener Straße 77, 28215 Bremen, Germany
Telefon +49 421 3503-0, Telefax +49 421 3503-393
E-mail info@de.gestra.com, Web www.gestra.com

