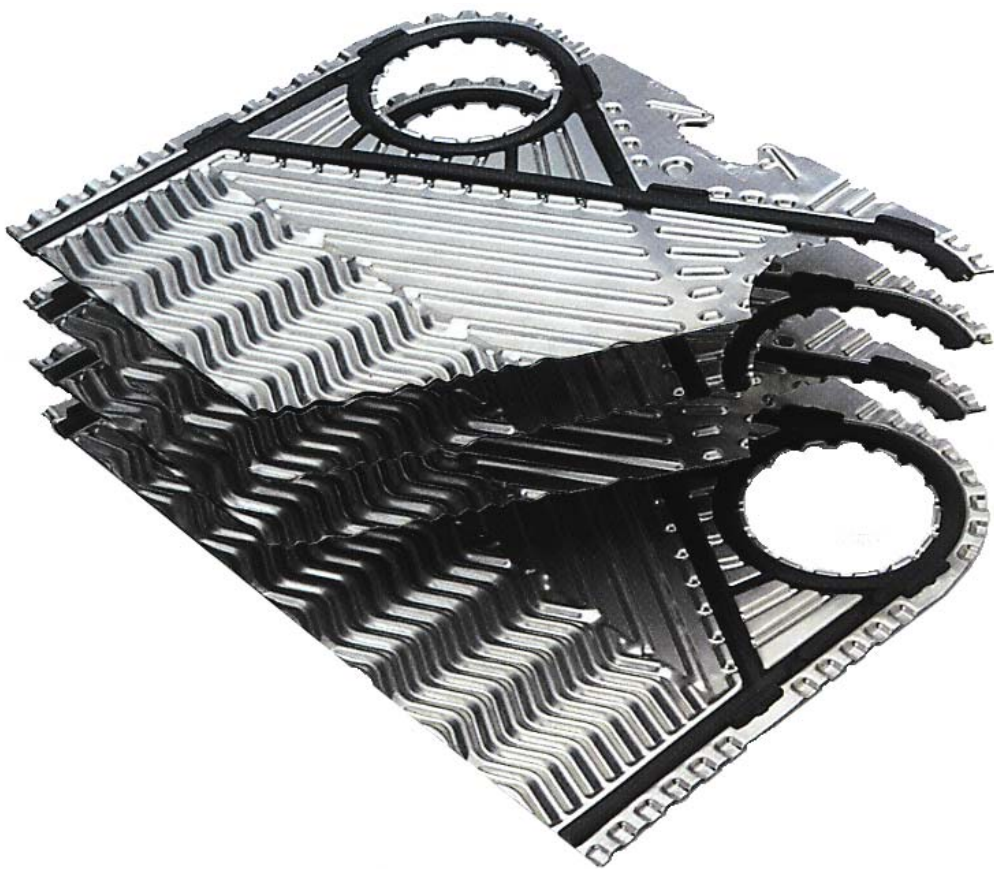
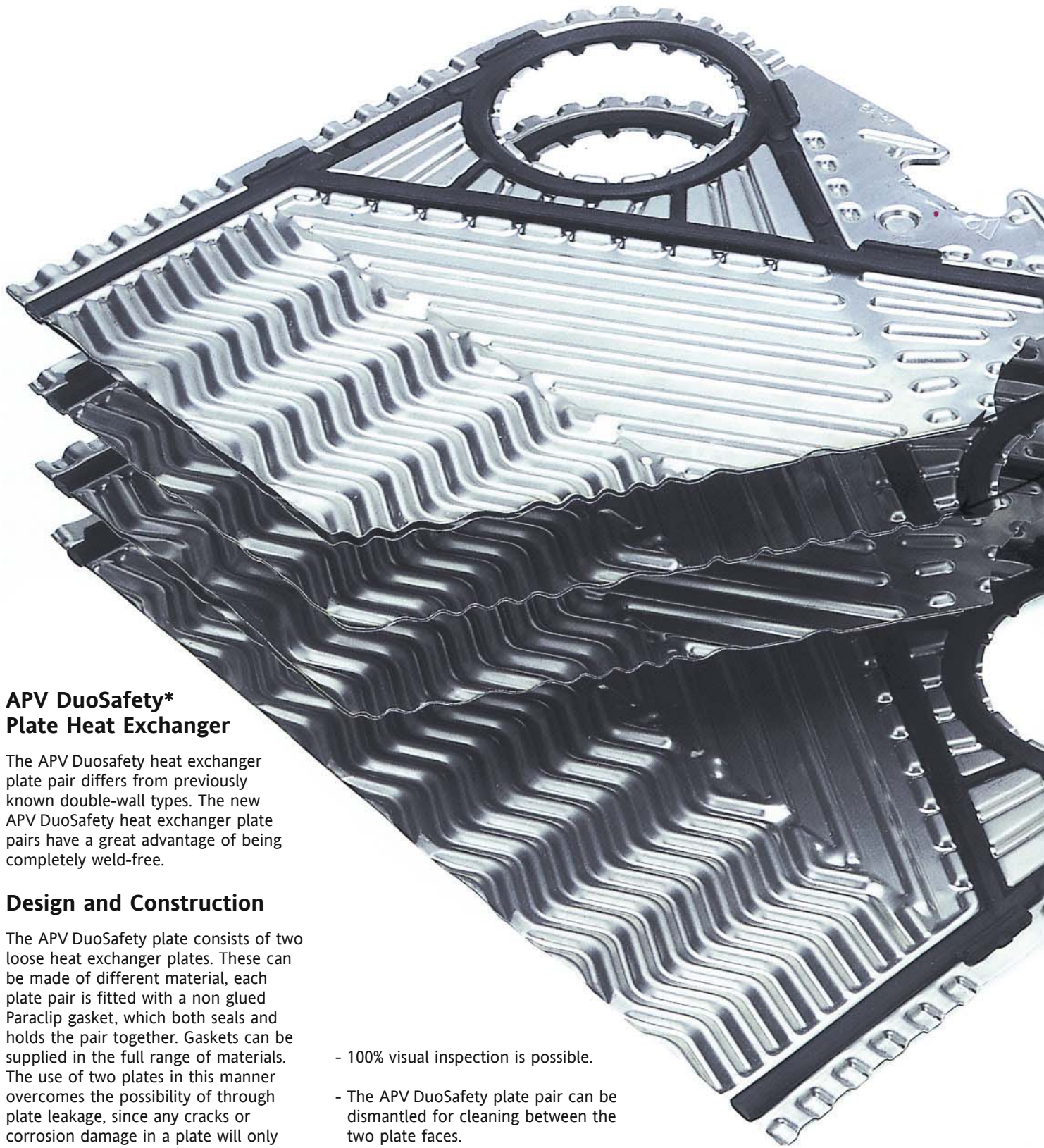


The Modern Art of Engineering

## DuoSafety





## APV DuoSafety\* Plate Heat Exchanger

The APV DuoSafety heat exchanger plate pair differs from previously known double-wall types. The new APV DuoSafety heat exchanger plate pairs have a great advantage of being completely weld-free.

### Design and Construction

The APV DuoSafety plate consists of two loose heat exchanger plates. These can be made of different material, each plate pair is fitted with a non glued Paraclip gasket, which both seals and holds the pair together. Gaskets can be supplied in the full range of materials. The use of two plates in this manner overcomes the possibility of through plate leakage, since any cracks or corrosion damage in a plate will only allow leakage into the space between each APV DuoSafety plate pair. Should a leakage occur, the liquids will not be mixed since the leaking liquid will flow between the plate pair faces to the atmosphere, where it will be readily visible as an indication that corrective action should be initiated.

### Advantages of Using APV DuoSafety Plate Pairs

There are many advantages of using the new APV DuoSafety plate heat exchanger:

- 100% visual inspection is possible.
- The APV DuoSafety plate pair can be dismantled for cleaning between the two plate faces.
- It is possible to combine different plate materials in one plate pair:
  - such as stainless steel/titanium or hastelloy/titanium
  - two gasket materials can be combined e.g. EPDM/viton.
- High safety against mixing of fluids.
- No welds.

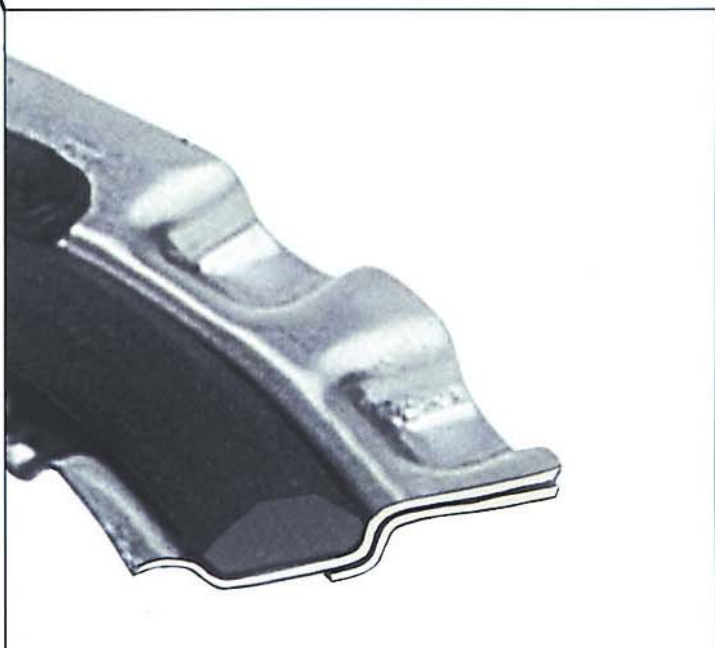
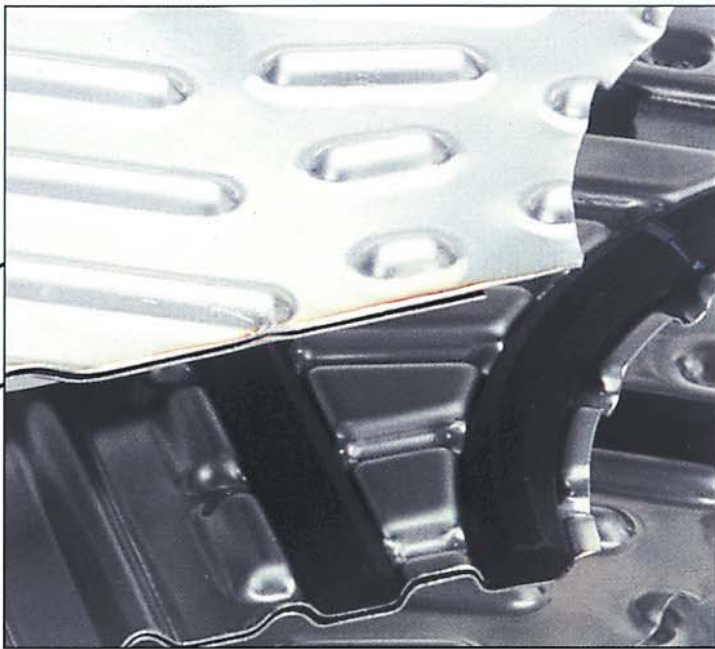
These are only a few of the many advantages obtained by using the APV DuoSafety plate.

### Areas of Application

The APV DuoSafety plate heat exchanger can advantageously be used within numerous industries, such as:

- the pharmaceutical industry;
- the nuclear industry;
- the chemical industry;
- the food industry;
- the petrochemical industry;
- HVAC heating of utility water.

\*) Patented



## Range of Materials

The APV DuoSafety heat exchanger plate pairs can be supplied in stainless steel, titanium, etc. or in two different materials. Gaskets are now available in NBR or EPDM material.

## Your Supplier

APV's plate heat exchanger factory, which is located in Kolding, was founded in 1888. APV introduced the plate heat exchanger in 1923 and have since then been market leaders within this industry. In 1986 a new factory was built, and today this is one of the most modern factories of its kind in Europe, and was the first Danish machine factory which was certified according to ISO 9001, and in 1990 the factory obtained ASME-U stamp approval.

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