APV Homogenisers for Industrial Applications
APV Homogenisers

The APV homogeniser is well suited for processing a myriad of chemicals and industrial products.

FEATURES

APV Homogenisers will improve your product by:

- Creating a smaller particle size for improved penetration and absorption
- Provide better viscosity control
- Enhance the colour
- Improve the stability
- Disperse solids evenly allowing for less settling

OPERATING RANGE

- Twenty-three (23) homogeniser models to choose from accommodating flow rates from 11 litres/hour (3 gallons/hour) to 50,000 litres/hour (16,000 gallons/hour)
- Operating pressures to 2,000 bar (29,000 psig)

MATERIALS OF CONSTRUCTION

- Gaulin Models
  - 15-5 pH / 1.4405S
- Rannie Models
  - 1.4462 / 2505SS
  - Titanium (high pressure)

FIGURE 1: HOW A HOMOGENISING VALVE WORKS
**HOMOGENISER TECHNICAL DATA**

The homogeniser, consisting of a positive displacement pump and a homogenising valve, can pump at very low flow rates (a few gallons per hour for laboratory size machines) to very high flow rates (50,000 litres per hour or more for production machines.) Along with this range of flows, the homogeniser can generate pressures as high as 2,000 bar, depending on the model. The homogeniser can be constructed of materials suitable for a variety of chemical agents.

**BENEFITS OF USING THE APV HOMOGENISING VALVE**

With the combination of pressure range and flow capability, the homogeniser can be used to process many different products. The customer can select a homogeniser that has the right combination of pressure, flow and special design options to accommodate his particular product characteristics. The homogenising valve can be supplied in special materials to handle abrasive products. Along with special materials of construction, the homogenising valve is optimised in geometry to deliver the best efficiency for various industrial products. With the combination of the customer’s proven manufacturing protocol and the APV Homogeniser, a superior product can be supplied to the customer’s clients. The APV Homogeniser will be an integral part of the production of this competitive industrial product.

**ALWAYS TEST BEFORE YOU INVEST**

Many physical and chemical properties of a product can be enhanced by homogenisation. As the recognized pioneer in homogenisation technology, SPX maintains well-equipped, professionally staffed test laboratories in Albertslund and Silkeborg. Our labs have helped develop new and improve existing products, while streamlining processes to boost productivity and profitability. Product stability, colour, viscosity, taste, appearance and consistency can be monitored throughout the homogenisation process.

Typical product applications

- Cellulose gum dispersions
- Grease
- Viscosity index improvers
- Insecticides
- Lubricants
- Chemicals
- Resins
- Water based release coatings
- Alkyd emulsions

![Turbulent flow profile in an APV Homogeniser](image)
ABOUT SPX
Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global multi-industry manufacturing leader. For more information, please visit www.spx.com.

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SPX reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.spx.com.

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