

GAULIN

HIGH-PRESSURE HOMOGENIZER Model MC 18

**PRESSURES TO
700 BAR
CAPACITIES TO
12.000 L/H**

GAULIN...
the first name, the last
word in homogenization.
There has never been a
better way to homogenize
your products



THE HOMOGENIZING VALVE

Available in a variety of designs, single- or two-stage, with flat valve and seat, serrated working surfaces, knife edge type or Micro-Gap™... each type specially designed to provide highest homogenizing efficiency with lowest possible energy requirements.

Homogenizing pressure may be adjusted manually, by handwheel control or hydraulically, allowing remote or automatic control.

THE HOMOGENIZER PUMP BLOCK

A one piece precision machined forged stainless steel block, utilizing a minimum of parts and seals. Fitted with front and upper caps for easy maintenance. Plunger packings with automatic spring adjustment or with screw adjustment. All packings, pump valves, gaskets and seals easily accessible with a minimum of downtime. Fully sanitary, suitable for CIP.

Materials of construction for plungers, packings, pump valves and valve seats to meet the toughest demands. Pump valves in poppet type or ball valve design.

Available in aseptic design with full stroke steam sterilization, full stroke fluid seal design,

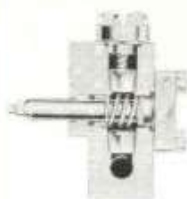
high temperature design or cored for heating or cooling.
Many other options available to meet specific product- or process requirements.

THE DRIVE END

A one piece high strength base designed to provide the ultimate in operating economy. This unique concept offers unbeaten reliability with a minimum of maintenance and downtime and incorporates:

- eccentric shaft assembly with a high strength steel shaft and shrunk-on cams.
- hearing bone gear and pinion speed reductor for low speed and low noise operation.
- bronze babbitt lined sleeve bearings.
- connecting rods with babbitt lined replaceable bearings.
- crossheads with self-aligning adjustable ball joint bearings.
- slow speed V-belt drive as primary transmission.
- force feed oil lubrication system with oil cooler and oil pressure safety switch.

POPPET VALVE CYLINDER (TPS)



For low viscosity, moderately abrasive products

- tapered removable valve seats
- hardened stainless steel pump valves
- spring loaded automatic packing adjustment resulting in extra long packing life
- flat nylon gaskets for superior sealing and minimum of crevices
- meets CIP standards
- available in aseptic design

BALL VALVE CYLINDER (TBS)



For high viscosity and abrasive products

- tapered removable valve seats in Rexalloy or special Carbide
- Rexalloy ball type pump valves
- plungers in hardened stainless steel or with special coatings for extra long life
- spring loaded packing arrangement
- available in high temperature design



GAULIN MICRO-GAP™ VALVE

For non-abrasive, low viscosity dairy products your homogenizer can be equipped with the novel MICRO-GAP homogenizing valve assembly. The highly efficient MICRO-GAP valve will enable you to operate at up to 40% lower pressure, while giving you the same or better product quality. This will result in significant savings in energy and reduction in machine drive-end loading, which in turn will pay you handsome dividends in maintenance savings. Both mean extra profit from the day you start up your new GAULIN homogenizer.

Also at your disposal:

The GAULIN EQA (Emulsions Quality Analyzer), for quick analyses of the homogenizing efficiency. Eliminate guesswork and keep your product quality up to standard. The EQA, a perfect companion for your homogenizer. For many kinds of emulsions!



HOMOGENIZING VALVE (MANUAL)

Single- or two stage homogenizing valve assembly, manually, handwheel adjustable (not available on MC45's and larger units). Valve parts in Rexalloy or Tungsten Carbide. Valve designs to suit specific products and homogenizing requirements.



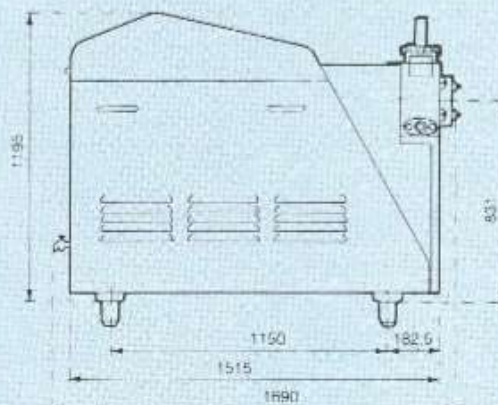
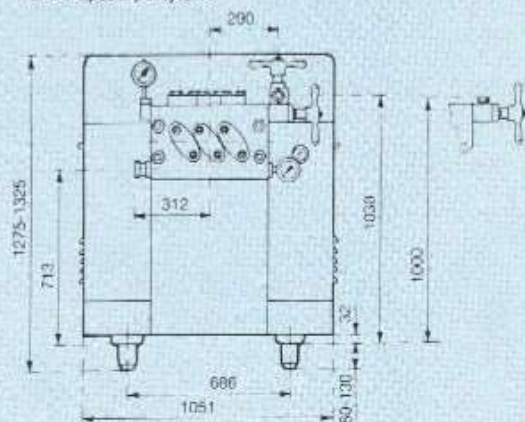
HOMOGENIZING VALVE (HVA)

Single- or two stage homogenizing valve assembly, hydraulically actuated, control knob adjustable. Hydraulic system can be adapted to provide remote- or complete automatic pressure control, independent from process flow. A wide range of valve designs guarantees optimum homogenizing efficiency for each specific product.

Model Size	Cylinder Designs; maximum capacities in l/h and pressures in bar								Pressure
	140	175	200	210	280	345	550	700	
MC18	2TPS	2.5TPS	2.9TPS	3TPS	4TPS	5TPS	8TPS	10TPS	Cylinder
	2-1/2	2-3/8	2-1/8	2-1/8	1-15/16	1-3/4	1-3/16		Plunger dia
2	7700	6100	5400	5100	3800	3000	2000	Contact Factory	37 kW
4	9700	7800	6800	6500	5000	3900	2500		45 kW
6	12000	9800	8600	8000	6200	4900	2600		55 kW
8		11000	10000	8800	7500	5500		Contact Factory	65 kW
		2.5TBS		3TBS	4TBS	5TBS	8TBS		Cylinder
2		6100		5100	3800	3000	2000		37 kW
4		7800		6500	4600	3900	2200	Contact Factory	45 kW
6		8800		7100	5500	4600			55 kW

Note: lower capacities may require 750 or 1000 rpm motor and/or special pulley drive.

Net Weight 2100 kg



Contact APV GAULIN International SA to get the full story on the complete line of High Pressure Homogenizers, Pumps and Hydro-shear Systems, or call the local APV GAULIN agent or distributor.