













**FBF**2003 **FBF**2004



# Compression head and Homogenizing valve

- ■The Compression head is manufactured from a single block (easy and fast maintenance) of high quality stainless steel of a special type, with a 5 year guarantee against cracking and defects
- Pumping Pistons coated with a special "Diamond Like Carbon" plating (as a standard)
- Interchangeable Valve group assemblies available in special materials depending on the products to be processed
- ■The Homogenizing valves are designed to be energy efficient, with high stability and alignment of the moving parts (impact head) due to the hydrodynamic assembly, which ensures a vibration free homogenization
- Safety valve, in sanitary execution, of spring type with replaceable shutter and seat

## Motorization

- ■The pump body is made using a thick walled premium grade high-resistance cast iron, engineered to withstand heavy loads and cancel out vibration
- ■The crankshaft is made from a special steel, machined from a solid piece, which has been heat treated and with superfinishing of the goosenecks and complete nitriding The crankshaft is supported by robust roller bearings (with bronze bearings used only on the crank pins)
- Power transmission with a double reduction stage: "V" belts/pulleys, with parallel axes reduction gear
- 3 phase, 4 poles, AC electric drive motor of leading Company
- Lubricating plant of oil splash type. The mechanical components are in oil-bath and the correct oil level is checked by a proper inspection window installed on the front side of the machine

## Structure

■ The structure is made from square-section pipe frame in stainless steel execution, provided with separate stainless steel panels with satin finish

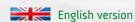
#### Maintenance kit

- Initial set of spare parts supplied with the machine include the following: full set of gaskets, a set of springs for valves and a complete safety valve set
- Set of tools for ordinary maintenance
- Lubrication oil
- Instruction and maintenance manuals (2 copies + CD ROM)

www.fbfitalia.it

Tel: 866-777-6060

Fax: 866-777-6383





Website: www.springerpumps.com Int'l: +001 267 404 2910









**FBF**3006

**FBF**3008

**FBF**3011

#### Standard options

- 2nd stage homogenizing valve controlled by a special oil-pneumatic system
- Digital pressure transducers and analogue gauges with 4-20 ma output
- Variable Capacity (A stainless steel panel mounted directly above the machine)
- Fixed Capacity (internal electrical board)
- Aseptic Version with "sterility barriers" traced with steam condensate created by an integrated plant
- Pulsation dampeners on product inlet and/or outlet connections, for special aseptic version as well
- Pressure gauge with alarm contacts for the automatic cut-off of the homogenizing pressure, complete with timing device to manage the start/stop of the homogenizing valves
- Automatic homogenization pressure controller

Technical Features											
Hmogenizer	Engine	Pumping pistons	Water consumption	Dimensions	Weight (approx.)	Hmogenizer	Engine	Pumping pistons	Water consumption	Dimensions	Weight (approx.)
Model	(kW)	(N.)	(l/h)	LxDxH (cm)	(kg)	Model	(kW)	(N.)	(l/h)	LxDxH (cm)	(kg)
<b>FBF</b> 1002	2,2	2	60	58x85x77	170	<b>FBF</b> 3006	5,5	3	70	85x115x92	410
<b>FBF</b> 2003	3	2	60	85x115x92	360	<b>FBF</b> 3008	7,5	3	70	85x115x92	420
<b>FBF</b> 2004	4	2	60	85x115x92	365	<b>FBF</b> 3011	11	3	70	100x130x100	470

Functional Features											
Model	Operating pressure bar		100	130	150	180	200	230	250	300	
FBF1002	Committee	from (l/h)	50	50	50	50	50	50	50	50	
	Capacity	to (l/h)	300	300	300	250	200	200	150	150	
FBF2003	Commission	from (l/h)	350	350	350	300	250	250	200	200	
FBF2004	Capacity	to (l/h)	650	650	600	500	450	400	350	300	
FBF3006	7)	from (l/h)	700	700	650	550	500	450	400	400	
FBF3008 FBF3011	Capacity	to (I/h)	2.100	2.100	2.100	1.700	1.600	1.200	1.200	1.000	

Technical specifications can vary and are subject to change without notice

www.fbfitalia.it

Tel: 866-777-6060

Fax: 866-777-6383

**FBF ITALIA S.r.l.** Via Are, 2 43038 Sala Baganza (Parma) Italy Phone: + 39 0521 548211 Fax: +39 0521 835179 info@fbfitalia.it



Springer Pumps, LLC Website: www.springerpumps.com Int'l: +001 267 404 2910