

# **Series FB**

# **Clogless Pumps**

- Reliable
- Wear resistant
- Low maintenance costs
- Easy to service
- Low power consumption
- Modular construction



# Series FB - a Solid Selection for Solids-carrying Liquids

### **Range of Applications**

The FB pump is a solids handling pump for all kinds of liquids containing abrasives, large and long contaminants.

Typical applications are severely contaminated waste paper, sewage, effluent and paper mill rejects.

# Low Energy Consumption

Series FB exhibit very high efficiencies for vortex pumps, due to the special impeller vane design. With channel impellers even higher efficiencies are achieved.

### **Operating Reliability**

The rigid bearing assembly of thorough design ensures a bearing life exceeding 50 000 hours. The sturdy shaft has a maximum deflection of 0.05mm, at the seal, thereby providing the best possible working conditions for the shaft seal.

#### **Low-cost Maintenance**

The FB pumps are incorporated into the ABS Modular System™. Pumps with the same bearing assembly size have many spare parts in common.

## The FB Pump

- is rigid, reliable and wear resistant
- has a large free passage area and is clogless
- is designed according to international quality standard
- has low maintenance costs
- has high efficiency giving high energy savings



Triese FB pumps at Stora Enso, Sweden, are pumping the lettovers from paper making. The liquid contains fibre sludge.

### **Clogless**

The spacious pump casing, the wide openings in the channel impellers and the even larger passages of the vortex impellers ensure a clogless pump.

#### **Wear Resistant**

Many applications are highly erosive. The pump casing has generous wall thicknesses and smooth internal contours to allow for a long service life.

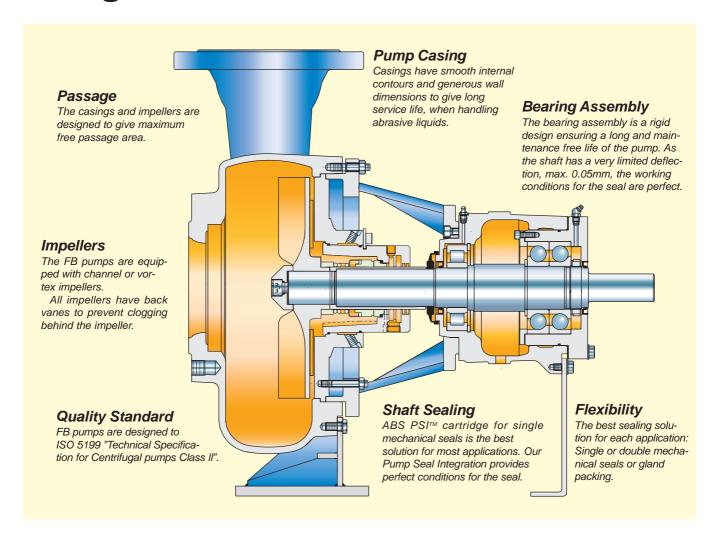
### **Easy to Service**

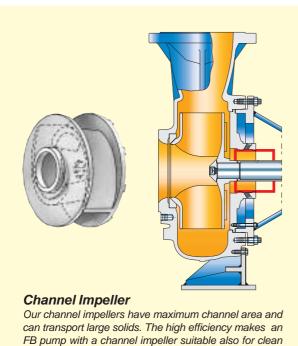
The back-pull out design permits rotor removal without disturbing the connecting pipework or drive motor. A quick way of changing shaft seals is to replace the seal cartridge with another cartridge from the stock, without even removing the casing cover. The shaft seal is then replaced or reconditioned and the cartridge is stocked. ABS Modular system™ means quick and easy service, making down-times short.



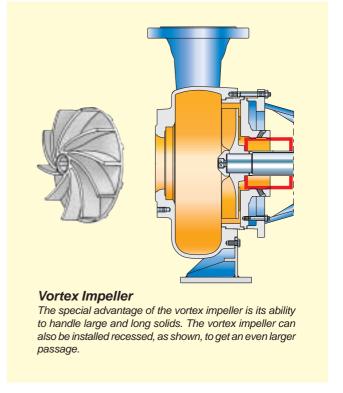
At the waste water plant in Falkenberg, Sweden, FB pumps are handling sewage.

# Design





liquids.



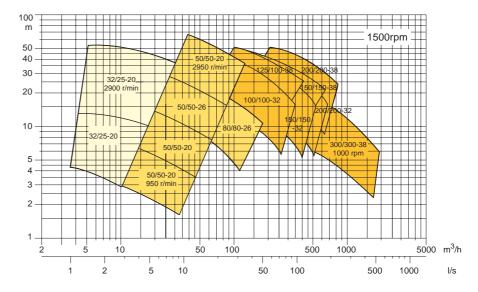
# **Technical Data**

1-1500 m<sup>3</sup>/h Flow Head 2-60 m Max. 190°C **Temperature Pressure** PN10/PN16 **Flanges** ISO 7005 PN10/16

ISO 5199 Standard

Lubrication Standard: Grease

Option: Oil



#### **Materials**

Material code	01	03	24
Pump casing	Grey Cast iron 0120	Grey Cast iron 0120	Duplex Stainl. steel 2324
Impeller	Grey Cast iron 0120	Duplex Stainl. steel 2324	Duplex Stainl. steel 2324
Shaft*	Stainless steel 2321	Stainless steel 2321	Stainless steel 2321
Shaft sleeve	Duplex Stainl. steel 2324	Duplex Stainl. steel 2324	Duplex Stainl. steel 2324

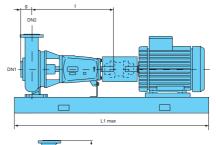
\*) Protected from pumped liquid

ABS material	Equivalent ( Germany	grades USA	UK	France	Chemical composition
0120 2321 2324	GG20 1.4057 1.4460	A48/30B AISI 431 AISI 329	1452/Gr. 220 431 S29	Ft 20D Z15 CN16-2	Grey Cast iron 17Cr 2Ni 0.2C 25Cr 5Ni 1.5Mo 0.10C

#### **Ball Passages for Impeller Types** Ball passage in mm Vortex type Recessed Two-ch. impeller vortex imp. impeller FB 32/25-20 FB 50/50-20 50 FB 50/50-26 50 FB 80/80-26 80 FB 100/100-32 100 72 FB 150/150-32 75 130 80 FB 200/200-32 85 140 80 FB 125/100-38 60 78 FB 150/150-38 78 80 FB 200/200-38 90 FB 300/300-38 92\* \*) Three-channel impeller

#### **Dimensions**

Pump type	Bear.Assy. size	DN1	DN2	h1	h2	g	f	B2* max.	L1* max.	z* max.	Weight** kg
FB 32/25-20	1	32	25	160	200	65	390	500	1120	150	55
FB 50/50-20	2	50	50	180	225	78	550	630	1560	210	85
FB 50/50-26		50	50	200	250	78	550	630	1560	245	100
FB 80/80-26		80	80	225	280	98	565	630	1560	235	110
FB 100/100-3	2 3	100	100	315	355	130	565	880	1970	295	150
FB 150/150-3	2	150	150	315	360	120	580	880	1970	295	205
FB 200/200-3	2	200	200	315	410	140	595	880	1970	295	220
FB 125/100-3	8	125	100	315	400	130	573	880	1970	295	210
FB 150/150-3	8	150	150	315	400	120	579	880	1970	295	230
FB 200/200-3	8	200	200	315	440	140	598	880	1970	295	240
FB 300/300-3	8	300	300	450	580	171	612	880	1970	295	310
*) Varies with motor size and baseplate material				**) Pu	ımp oni	ly					





Baseplate of steel. Alt. baseplate of concrete.

ABS reserves the right to alter specifications due to technical developments

# COST-EFFECTIVE PUMPING

#### Agents and distributors **Norway** Tel. +47 67 554 700 Austria Estonia Sweden Tel. +46 31 706 16 00 Tel. +43 2236 642 61 Tel. +372 656 3398 Tel. +30 10 95 325 01/02/03 ABS has sales and service Fax +43 2236 642 66 Fax +372 656 3385 Fax +30 10 95 325 04 Fax +47 67 554 750 Fax +46 31 27 29 20 representation in more than 100 countries the world over. Belgium Hungary Switzerland Finland Tel. +32 2 725 79 00 Tel. +48 22 633 82 87 Tel. +36 1 231 60 70 Tel. +358 9 506 88 90 Tel. +41 71 694 6555 Fax +32 2 725 71 19 Fax +48 22 633 86 44 Fax +358 9 55 80 53 Fax +36 1 231 60 80 Fax +41 71 694 6556 Brazil Portugal www.abspumps.com **Turkey** Tel. +90 216 455 2256 Ireland Tel. +351 21 495 01 57 Tel. +55 41 227 81 00 Tel. +353 1 460 88 88 Tel. +33 1 49 35 24 50 Fax +55 41 348 18 79 Fax +351 21 495 53 64 Fax +353 1 460 88 89 Fax +90 216 455 2265 Fax +33 1 48 54 42 82 Canada Singapore Tel. +1 905 670 4677 ABS is a company in the Italy Tel. +65 4633 933 USA Germany Tel. +39 051 89 00 911 Tel. +49 62 57 9317 0 Fax +65 4622 122 Tel. +1 203 238 2700 Cardo Group Fax +1 905 670 3709

China Tel. +86 21 5234 0472 Fax +86 21 5234 1179

Denmark

Tel. +45 48 17 11 10 Fax +45 48 17 19 11

Fax +49 62 57 9317 99 Tel +49 2246 13 0 Fax +49 2246 13 200

**Great Britain** 

Tel. +44 1293 744 800 Fax +44 1293 543 392 Fax +39 051 86 18 48

Netherlands

Tel. +31 30 242 56 78 Fax +31 30 241 03 46 South Africa

Tel. +27 11 397 1612 Fax +27 11 397 1795

Spain

Tel. +34 91 670 28 51 Fax +34 91 666 58 68 Fax +1 203 238 0738

All other countries

ABS Pumps International Head Office, Sweden Tel. +46 31 83 63 00 Fax +46 31 16 79 14