

## 200 Size Bronze Flexible Impeller Pump Head Kit

2/99

### 22880 Series

**Bronze Flexible Impeller Pump** 

#### **Features**

- Flows up to 200 Litres/Minute @ 1500 RPM
- Self prime from dry up to 3.0 metres
- · Handles hard or soft solids
- Non pulsating flow
- Gentle pump action does not damage shear-sensitive products
- Easy to service and maintain



Industrial: From water to the most difficult, e.g. transferring foaming solutions with entrained air or solids, such as soap, circulating abrasive and non abrasive slurries. Transferring inks, dyes, starches etc.

Chemical: Circulating and transferring various chemicals such as ammonia, barium, copper sulphate, glycerine, nickel chloride, silver nitrate; various acids such as boric, carbonic, citric and photo processing solutions, widely used for polyelectrolyte.



### **Specifications**

Seal: Carbon/Ceramic mechanical seal

Pump Head: Bronze

End Cover: Brass

Bearings: Uses motor bearings

**Shaft**: 316 Stainless steel shaft extension

**Motor adaptor**: Epoxy-coated aluminium, suitable for B3/B14 D100 frame motor to IEC 71 standard

Ports : Flanged, adaptors available

Weight: 7.7kg.

### **Model Options**

Impeller option	Neoprene	Nitrile
Temperature range	4°C to 80°C	-5°C to 90°C
Pump head only	22880-2001 22880-2003	

Note: it is not recommended to start the pump at extreme ends of the temperature range, impeller damage may occur All models use Nitrile seal elastomers

Other options available, Pedestal & Motor pump units, in Bronze, Plastic & Stainless steel

For Installation, Operating, Maintenance and Safety Instructions refer to form 43001-0543



Explosion hazard. Do not pump gasoline, solvents, thinners or other flammable liquids. To do so can cause an explosion resulting in injury or death.

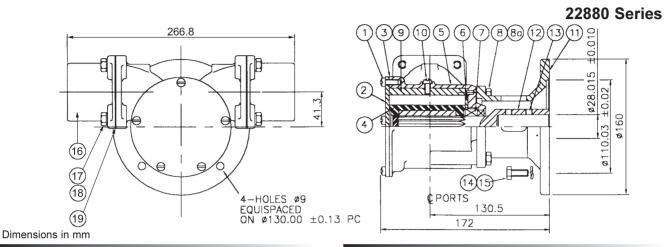


Injury hazard. Exposed pulleys and belts can cause injury. Install shield around pulleys and belts. Stay clear while machinery is operating.



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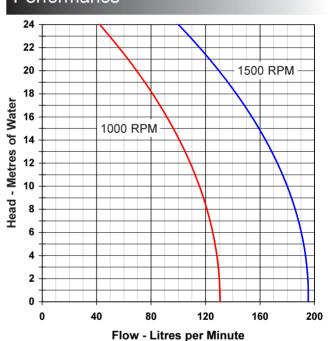
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### Parts List

New   Description   Qty   Part No.							
2 Endcover 1 9336 3 Gasket* 1 816 4 Impeller* Neoprene 1 836-0001 5 Body 1 10634 6 Wearplate 1 2574 7 Seal assembly* 1 21849 8 Screw 4 SP1095-28 80 Washer 4 SP1602-13 9 Cam 1 834 10 Screw Cam 1 SP1005-04 11 Adaptor 1 22884 12 Extension Shaft 1 22887 13 Screw Set 2 X3009-203A 14 Screw 4 X3001-209C 15 Washer 4 X3081-101C 16 Port adaptor # 1½" BSP 2 10942 17 Screw 8 SP1095-19 18 Washer 9 Set 2 X3009-203A 18 Washer 1 SP1005-04 11½" NPT 2 10940 2" Hose 2 10942 17 Screw 8 SP1095-19 18 Washer 9 Set 2 X3009-203A 19 Gasket 8 SP1095-19 18 Washer 9 Set 2 X3009-203A 19 Gasket 9 Set 2 X3009-203A 10 Screw 1 Set 2 X3009-203A 11½" NPT 2 10940 2" Hose 2 10942 17 Screw 9 Set 2 10942 17 Screw 9 Set 2 10942 17 Screw 1 Set 2 10940 2" Hose 2 10942 17 Screw 9 Set 2 10942 17 Screw 1 Screw 1 Set 2 10942 17 Screw 1 Set 2 10940 2" Hose 2 10948 Parts marked * above are contained in a Service kit Service kit Neoprene 1 SK230 Nitrile 1 SK230-37 Parts marked * above are contained in an adaptor kit 11½" BSP 1 K1-200 11½" NPT 1 K1 2" Hose 1 K1-200	Key			Qty			
3   Gasket*   1   816       4   Impeller*   Neoprene   1   836-0001     5   Body   1   10634     6   Wearplate   1   2574     7   Seal assembly*   1   21849     8   Screw   4   SP1095-28     80   Washer   4   SP1602-13     9   Cam   1   834     10   Screw   Cam   1   SP1005-04     11   Adaptor   1   22884     12   Extension   Shaft   1   22887     13   Screw   Set   2   X3009-203A     14   Screw   4   X3001-209C     15   Washer   4   X3081-101C     16   Port adaptor #   1½" BSP   2   10941     17   Screw #   8   SP1095-19     18   Washer #   8   SP1602-09     19   Gasket #   2   10948     Parts marked * above are contained in a Service kit     Service kit   Neoprene   1   SK230     Parts marked * above are contained in an adaptor kit     1½" BSP   1   K1-200     Port adaptor kit   1½" BSP   1   K1-200     1½" NPT   1   K1     2" Hose   1   K1-01		Screw*		_	SP1005-04		
A   Impeller*   Neoprene   1   836-0001     Nitrile   1   836-0003     5   Body	_			1	9336		
Mitrile   1	3	Gasket*		1	816		
Nitrile	4	Impeller*		1	836-0001		
6 Wearplate 1 2574 7 Seal assembly* 1 21849 8 Screw 4 SP1095-28 80 Washer 4 SP1602-13 9 Cam 1 834 10 Screw Cam 1 SP1005-04 11 Adaptor 1 22884 12 Extension Shaft 1 22887 13 Screw Set 2 X3009-203A 14 Screw 4 X3001-209C 15 Washer 4 X3081-101C 16 Port adaptor # 12" BSP 2 10940 17 Screw 8 SP1095-19 18 Washer 8 SP1095-19 18 Washer 8 SP1602-09 19 Gasket # 2 10948 Parts marked * above are contained in a Service kit  Service kit Neopree 1 SK230 Parts marked * above are contained in an adaptor kit 1½" NPT 1 K1-200 Port adaptor kit 1½" NPT 1 K1 2" Hose 1 K1-201			Nitrile	1	836-0003		
7         Seal assembly*         1         21849           8         Screw         4         SP1095-28           80         Washer         4         SP1602-13           9         Cam         1         834           10         Screw         Cam         1         SP1005-04           11         Adaptor         1         22884           12         Extension         Shaft         1         22887           13         Screw         Set         2         X3009-203A           14         Screw         Set         2         X3009-203A           14         Screw         4         X3001-209C           15         Washer         4         X3081-101C           12" BSP         2         10941           12" NPT         2         10940           2" Hose         2         10942           17         Screw #         8         SP1095-19           18         Washer #         8         SP1602-09           19         Gasket #         2         10948           Parts marked * above are contained in a Service kit           Nitrile         1         SK230-37							
8         Screw         4         SP1095-28           8a         Washer         4         SP1602-13           9         Cam         1         834           10         Screw         Cam         1         SP1005-04           11         Adaptor         1         22884           12         Extension         Shaft         1         22887           13         Screw         Set         2         X3009-203A           14         Screw         4         X3001-209C           15         Washer         4         X3081-101C           16         Port adaptor #         1½" BSP         2         10941           1½" NPT         2         10940           2" Hose         2         10942           17         Screw #         8         SP1095-19           18         Washer #         8         SP1602-09           19         Gasket #         2         10948           Parts marked * above are contained in a Service kit           Nitrile         1         SK230-37           Parts marked * above are contained in an adaptor kit         1½" BSP         1         K1-200           Port adaptor kit		Wearplate		1	2574		
8a         Washer         4         SP1602-13           9         Cam         1         834           10         Screw         Cam         1         SP1005-04           11         Adaptor         1         22884           12         Extension         Shaft         1         22887           13         Screw         Set         2         X3009-203A           14         Screw         4         X3001-209C           15         Washer         4         X3081-101C           16         Port adaptor #         1½" BSP         2         10941           1½" NPT         2         10940         2" Hose         2         10942           17         Screw #         8         SP1095-19         8         SP1602-09         9           18         Washer #         8         SP1602-09         9         9         10948         9           Parts marked * above are contained in a Service kit         Nitrile         1         SK230-37         1           Parts marked * above are contained in an adaptor kit         1½" BSP         1         K1-200           Port adaptor kit         1½" NPT         1         K1         2" Hose <td>7</td> <td>Seal assembly*</td> <td></td> <td>1</td> <td>21849</td>	7	Seal assembly*		1	21849		
9 Cam	8	Screw		4	SP1095-28		
10         Screw         Cam         1         SP1005-04           11         Adaptor         1         22884           12         Extension         Shaft         1         22887           13         Screw         Set         2         X3009-203A           14         Screw         4         X3001-209C           15         Washer         4         X3081-101C           16         Port adaptor #         2         10940           2" Hose         2         10942           17         Screw #         8         SP1095-19           18         Washer #         8         SP1602-09           19         Gasket #         2         10948           Parts marked * above are contained in a Service kit         Nitrile         1         SK230           Service kit         Nitrile         1         SK230-37           Parts marked * above are contained in an adaptor kit         1½" BSP         1         K1-200           Port adaptor kit         1½" NPT         1         K1         2" Hose         1         K1-01	<b>8</b> a	Washer		4	SP1602-13		
11       Adaptor       1       22884         12       Extension       Shaft       1       22887         13       Screw       Set       2       X3009-203A         14       Screw       4       X3001-209C         15       Washer       4       X3081-101C         16       Port adaptor #       1½" BSP       2       10941         1½" NPT       2       10940         2" Hose       2       10942         17       Screw #       8       SP1095-19         18       Washer #       2       10948         Parts marked * above are contained in a Service kit       Neoprene       1       SK230         Service kit       Nitrile       1       SK230-37         Parts marked * above are contained in an adaptor kit       1½" BSP       1       K1-200         Port adaptor kit       1½" NPT       1       K1         2" Hose       1       K1-200	9	Cam		1	834		
12         Extension         Shaft         1         22887           13         Screw         Set         2         X3009-203A           14         Screw         4         X3001-209C           15         Washer         4         X3081-101C           16         Port adaptor #         1½" BSP 2 10941         10940           2" Hose 2 10942         10942         10942           17         Screw #         8 SP1095-19           18         Washer #         2 10948           Parts marked * above are contained in a Service kit         Neoprene 1 SK230           Service kit         Nitrile 1 SK230-37           Parts marked * above are contained in an adaptor kit         1½" BSP 1 K1-200           Port adaptor kit         1½" NPT 1 K1           2" Hose 1 K1-01	10	Screw	Cam	1	SP1005-04		
13 Screw Set 2 X3009-203A 14 Screw 4 X3001-209C 15 Washer 4 X3081-101C  16 Port adaptor # 1½" BSP 2 10941 1½" NPT 2 10940 2" Hose 2 10942 17 Screw # 8 SP1095-19 18 Washer # 8 SP1602-09 19 Gasket # 2 10948 Parts marked * above are contained in a Service kit  Service kit Neoprene 1 SK230 Nitrile 1 SK230-37 Parts marked # above are contained in an adaptor kit 1½" BSP 1 K1-200 Port adaptor kit 1½" NPT 1 K1 2" Hose 1 K1-01	11	Adaptor		1	22884		
14       Screw       4       X3001-209C         15       Washer       4       X3081-101C         16       Port adaptor #       1½" BSP 2 10941         1½" NPT 2 10940       10942         2" Hose 2 10942       10942         18       Washer # 8 SP1095-19         19       Gasket # 2 10948         Parts marked * above are contained in a Service kit         Service kit       Nitrile 1 SK230         Nitrile 1 SK230-37         Parts marked * above are contained in an adaptor kit         1½" BSP 1 K1-200         Port adaptor kit       1½" NPT 1 K1         2" Hose 1 K1-01	12	Extension	Shaft	1	22887		
15 Washer  A X3081-101C  16 Port adaptor # 1½" BSP 2 10941  11½" NPT 2 10940  2" Hose 2 10942  17 Screw # 8 SP1095-19  18 Washer # 8 SP1602-09  19 Gasket # 2 10948  Parts marked * above are contained in a Service kit  Service kit  Neoprene 1 SK230  Nitrile 1 SK230-37  Parts marked # above are contained in an adaptor kit  1½" BSP 1 K1-200  Port adaptor kit  1½" NPT 1 K1  2" Hose 1 K1-01	13	Screw	Set	2	X3009-203A		
1½" BSP   2   10941	14	Screw		4	X3001-209C		
16     Port adaptor *     1½" NPT 2 10940       2" Hose 2 10942       17     Screw *     8 SP1095-19       18     Washer *     8 SP1602-09       19     Gasket *     2 10948       Parts marked * above are contained in a Service kit       Service kit     Neoprene 1 SK230 Nitrile 1 SK230-37       Parts marked * above are contained in an adaptor kit       1½" BSP 1 K1-200       Port adaptor kit     1½" NPT 1 K1       2" Hose 1 K1-01	15	Washer		4	X3081-101C		
2" Hose   2   10942   17   Screw #   8   SP1095-19   18   Washer #   8   SP1602-09   19   Gasket #   2   10948   Parts marked * above are contained in a Service kit   Service kit   Neoprene   1   SK230   Nitrile   1   SK230-37   Parts marked * above are contained in an adaptor kit   1½" BSP   1   K1-200   1½" NPT   1   K1   2" Hose   1   K1-01	16	Port adaptor #			10941		
17         Screw #         8         SP1095-19           18         Washer #         8         SP1602-09           19         Gasket #         2         10948           Parts marked * above are contained in a Service kit           Neoprene 1 SK230           Nitrile 1 SK230-37           Parts marked * above are contained in an adaptor kit           1½" BSP 1 K1-200           Port adaptor kit         1½" NPT 1 K1           2" Hose 1 K1-01			1½" NPT	2	10940		
18         Washer #         8         SP1602-09           19         Gasket #         2         10948           Parts marked * above are contained in a Service kit           Neoprene 1 SK230           Nitrile 1 SK230-37           Parts marked * above are contained in an adaptor kit           1½" BSP 1 K1-200           Port adaptor kit         1½" NPT 1 K1           2" Hose 1 K1-01			2" Hose	2	10942		
19	17	Screw #		8	SP1095-19		
Parts marked * above are contained in a Service kit           Service kit         Neoprene Nitrile         1 SK230           Nitrile         1 SK230-37           Parts marked * above are contained in an adaptor kit         1½" BSP 1 K1-200           Port adaptor kit         1½" NPT 1 K1           2" Hose 1 K1-01	18	Washer #			SP1602-09		
Neoprene         1         SK230           Nitrile         1         SK230-37           Parts marked * above are contained in an adaptor kit         1½" BSP   1 K1-200           Port adaptor kit         1½" NPT   1 K1           2" Hose   1 K1-01	19	Gasket #		2	10948		
Service kit         Nitrile         1         SK230-37           Parts marked * above are contained in an adaptor kit         1½" BSP         1         K1-200           Port adaptor kit         1½" NPT         1         K1           2" Hose         1         K1-01	Parts marked * above are contained in a Service kit						
Parts marked * above are contained in an adaptor kit    1½" BSP   1   K1-200	Service kit		Neoprene	1	SK230		
Port adaptor kit			Nitrile	1	SK230-37		
Port adaptor kit	Parts marked # above are contained in an adaptor kit						
2" Hose 1 K1-01	Port adaptor kit				K1-200		
2 11000 1 1111 01			1½" NPT	1	K1		
Mechanical seals are fitted with Nitrile elastomers							
	Mec	Mechanical seals are fitted with Nitrile elastomers					

### Performance



Note: Performance shown is for a new pump, fitted with a Neoprene impeller, pumping water at 20°C, performance may vary by up to 15%. Consult factory for performance of alternative impeller compounds.

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